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Section 0

General Information

General Information 0-2

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General Information

General Information

Introduction

Vehicle, Engine and Transmission ID and VIN Location, Derivative and Usage



5028742

The vehicle identification number (VIN) plate (1) is the legal identifier of the vehicle. The VIN plate is located on the upper left corner of the instrument panel. The

VIN number can be seen through the windshield from the outside of the vehicle:

Vehicle Identification Number (VIN) System

Position	Definition	Character	Description
1	Country of Origin	1	United States
		2	Canada
		3	Mexico
2	Manufacturer	G	General Motors
3	Vehicle Brand/Type	B	Chevrolet Incomplete
		C	Chevrolet Truck
4	GVWR/Brake System/Body Style	N	6,001–7,000 lbs/Hydraulic/Standard Cab
		P	6,001–7,000 lbs/Hydraulic/Crew Cab
		R	6,001–7,000 lbs/Hydraulic/Extended Cab

Position	Definition	Character	Description
		U	7,001–8,000 lbs/Hydraulic/Crew Cab
		V	7,001–8,000 lbs/Hydraulic/Extended Cab
5/6	Line Chassis/Series	A/A	4x2, 1500 Chevrolet Silverado, Work Truck
		A/B	4x2, 1500 Chevrolet Silverado, Custom
		A/C	4x2, 1500 Chevrolet Silverado, LT
		A/D	4x2, 1500 Chevrolet Silverado, RST
		A/E	4x2, 1500 Chevrolet Silverado, LTZ
		A/F	4x2, 1500 Chevrolet Silverado, High Country
		A/9	4x2, 1500 Chevrolet Silverado, (Non-US, Non-Canada)
		D/A	4x4, 1500 Chevrolet Silverado, Work Truck
		D/B	4x4, 1500 Chevrolet Silverado, Custom
		D/C	4x4, 1500 Chevrolet Silverado, Trail Boss Custom
		D/D	4x4, 1500 Chevrolet Silverado, LT
		D/E	4x4, 1500 Chevrolet Silverado, RST
		D/F	4x4, 1500 Chevrolet Silverado, Trail Boss - LT
		D/G	4x4, 1500 Chevrolet Silverado, LTZ
		D/H	4x4, 1500 Chevrolet Silverado ZR2
		D/J	4x4, 1500 Chevrolet Silverado High Country
		D/K	4x4, 1500 Chevrolet Silverado LTD LT-L
		D/9	4x4, 1500 Chevrolet Silverado, (Non-US, Non-Canada)
7	Restraint System	E	RPO AY0 – Active Manual Belts, Airbags – Driver and Passenger – Front (1st row), Front Seat Side (1st row), Roof Side (all seating rows)
8	Engine Type	D	RPO L84, Engine Gas, 8 Cylinder, 5.3L, DI, DFM*, Aluminum, GEN 5, VAR 2
		K	RPO L3B, Engine Gas, 4 Cylinder, L4, 2.7L, SIDI VVT, Turbo, DOHC, Aluminum
		L	RPO L87, Engine Gas, 8 Cylinder, V8, 6.2L, DI AFM, Aluminum, GEN 5
		8	LZ0 - ENGINE DIESEL, 6CYL, 3.0L, CRI, L6, DOHC, TURBO, VGT, ALUM, CSS50V, VAR 2
9	Check Digit	—	Check Digit
10	Model Year	S	2025
11	Plant Location	Z	Fort Wayne, Indiana, USA
		1	Oshawa, Canada
		G	Silao, Mexico
12–17	Plant Sequence Number	—	Plant Sequence Number

2.7L (L3B) Engine ID and VIN Derivative Location
Engine Identification

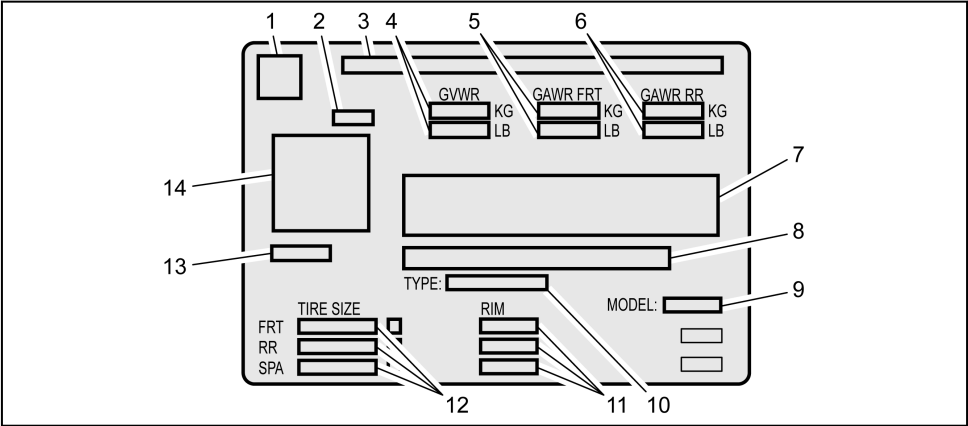
3.0L (LZO) Diesel Engine ID and VIN Derivative
Location
Engine Identification

5.3L (L84) or 6.2L (L87) Engine ID and VIN
Derivative Location
Engine Identification

10L80 (MQB) Transmission ID and VIN Derivative
Location
Transmission Identification Information

8L90 (MQE) Transmission ID and VIN Derivative
Location
Transmission Identification Information

Vehicle Certification, Tire Placard, and Anti-Theft Label

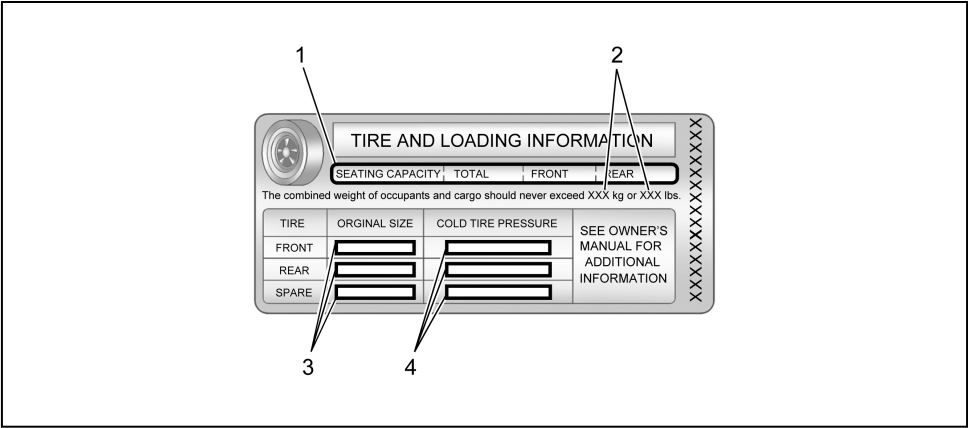


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Vehicle Certification Label

Callout	Description
A vehicle-specific Certification label is attached to the vehicle's center pillar (B-pillar) and displays the following assessments:	
1	Logo
2	Final Date of Manufacture (Month and Year MM/YY) Date of manufacture is to reflect the date that the vehicle is counted as built. In those cases where a replacement label is needed, the replacement label should reflect the actual build date not the date of replacement.
3	Name of Manufacturer
4	Maximum Gross Vehicle Weight Rating (GVWR)
5	Maximum Gross Axle Weight Rating (GAWR) - Front
6	Maximum Gross Axle Weight Rating (GAWR) - Rear
7	Certification Statement
8	Vehicle Identification Number (VIN)
9	Engineering Model Number
10	Vehicle Class Type (Pass Car, etc.)
11	Original Equipment Rim Size
12	Original Equipment Tire Size

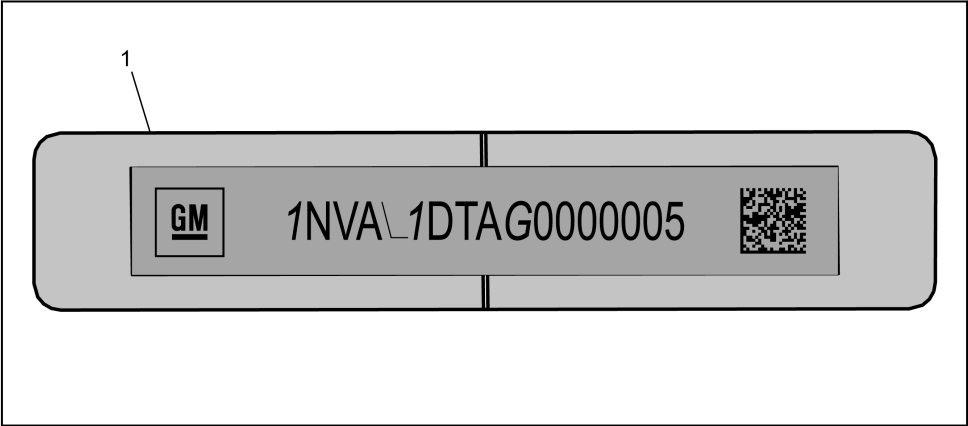
Callout	Description
13	Paint Code
14	QR Code Once the QR code is scanned, the information will appear in this order on your smartphone or laptop: VIN, Model Year, Model, Build Month, Year, Engineering Book, Vehicle Order Number, 3 Digit RPO Codes sorted alphanumerically and the Paint Code (same code appears the lower left of the QR code)



4962282

Tire Placard

Callout	Description
A vehicle-specific Tire and Loading Information label is attached to the vehicle's center pillar (B-pillar) and displays the following assessments:	
1	Specified Occupant Seating Positions
2	Maximum Vehicle Capacity Weight
3	Original Equipment Tire Size
4	Tire Pressure, Front, Rear, and Spare (Cold)



4962289

Anti-Theft Label

Callout	Description
This legal identifier is in the front corner of the instrument panel, on the driver side of the vehicle. It can be seen through the windshield from outside. The Vehicle Identification Number (VIN) also appears on the Vehicle Certification and certificates of title and registration.	
1	Vehicle Identification Number (VIN)

RPO Code List

The following table provides the description of the Regular Production Option (RPO) codes that are available on the vehicle. The vehicle's RPO list is printed on the Service Parts Identification Label.

RPO	Description
1CX	PACKAGE - CX OPTION 1
1LT	PACKAGE - LT OPTION 1
1LZ	PACKAGE - LZ OPTION 1
1SP	PACKAGE - OPTION 14
1WT	PACKAGE - WT OPTION 1
2CX	PACKAGE - CX OPTION 2
2FL	PACKAGE - FL OPTION 2
2LT	PACKAGE - LT OPTION 2
3LT	PACKAGE - LT OPTION 3
3LZ	PACKAGE - LZ OPTION 3
4AA	INTERIOR TRIM - JET BLACK
4AK	INTERIOR TRIM - JET BLACK/CAPTAIN BLUE
4JJ	INTERIOR TRIM - GIDEON/VY DK ATMOSPHERE
4JS	INTERIOR TRIM - JET BLACK/UMBER
4KW	INTERIOR TRIM - JET BLACK / ARTEMIS
5A7	WHEEL SPARE - NONE
5J9	CALIBRATION - TAILLAMP FLASHER, RED/WHITE (SEO)
5JL	ACCESSORY - BRAKE UPGRADE PKG 1 - COMPLETE
5JY	ACCESSORY - TONNEAU - RR COMPT - SOFT FOLDING
5LE	ACCESSORY - GARAGE DOOR OPENER
5LL	ACCESSORY - DECAL PACKAGE - BODYSIDE - DESIGN 10
5LM	ACCESSORY - DECAL PACKAGE - BODYSIDE - DESIGN 11
5LO	CALIBRATION - TAILLAMP FLASHER, RED/RED (SEO)
5VE	ACCESSORY - EXHAUST TIP - DESIGN 5
5VF	ACCESSORY - EXHAUST TIP - DESIGN 3
5VG	ACCESSORY - EXHAUST TIP - DESIGN 4
5VI	ACCESSORY - TIE DOWN RINGS - CARGO AREA
5W4	AIR CLEANER - HIGH CAPACITY
5W4	CALIBRATION - TAILLAMP FLASHER, RED/RED (SEO)
5W4	CALIBRATION - TAILLAMP FLASHER, RED/WHITE (SEO)
5W4	FLASHER - HEADLAMP (SEO)
5W4	GENERATOR - 220 AMP

RPO	Description
5W4	HITCH ASSIST - GUIDELINES
5W4	RECEPTACLE I/P - ELECTRICAL, 110 VOLT
5W4	TRAILER PROVISIONS - SPECIAL EQUIPMENT, H.D.
5W4	SALES PACKAGE - SPECIAL SERVICE, MUNICIPAL
5WI	ACCESSORY - TIE DOWN RINGS - CARGO AREA, MOVEABLE
63G	ACCESSORY - TAILGATE ASSIST LIGHTING
65C	LABEL, WARNING - CALIFORNIA, PROP 65 COMPLIANT
6J7	FLASHER - HEADLAMP (SEO)
6K5	BRK APL CTRL FEATURE - INTEGRATED TRAILER BRAKE
6K5	IMAGE ADJUSTMENT - HITCH VIEW
6K5	INDICATOR - SMART TRAILER INTEGRATION
6K5	OPENER - GARAGE DOOR, UNIVERSAL
6K5	SPEAKER SYSTEM - PREMIUM AUDIO, BRANDED AMPLIFIER
6K5	WINDOW RR - FULL WIDTH, SLIDING, POWER
6K5	SALES PACKAGE - CONVENIENCE II
6K9	ACCESSORY - HANGING BED DIVIDER BRACKET
9C1	AIR CLEANER - HIGH CAPACITY
9C1	AXLE POSITRACTION - LIMITED SLIP
9C1	BRAKE SYSTEM - HEAVY DUTY
9C1	BRK APL CTRL FEATURE - HILL DESCENT, GEAR HOLD
9C1	CALIBRATION - SPEEDOMETER A
9C1	CALIBRATION - TAILLAMP FLASHER, RED/RED (SEO)
9C1	CALIBRATION - TAILLAMP FLASHER, RED/WHITE (SEO)
9C1	ENGINE - GAS, 8 CYL, 5.3L, V8, DI, DFM, ALUM, GEN 5
9C1	FLASHER - HEADLAMP (SEO)
9C1	GENERATOR - 220 AMP
9C1	HITCH ASSIST - GUIDELINES
9C1	RECEPTACLE I/P - ELECTRICAL, 110 VOLT
9C1	RECEPTACLE PUBX - ELECTRICAL, 110 VOLT
9C1	SALES PACKAGE - SKID PLATE, "OFF ROAD" SPORT
9C1	TIRE ALL - 275/60R20 SL 115S BW AT
9C1	TIRE SPARE - 275/60R20 SL 115S BW AT
9C1	TRAILER PROVISIONS - SPECIAL EQUIPMENT, H.D.

RPO	Description
9C1	TRANSFER CASE - ACTIVE, TWO SPEED, SWITCH ACTIVATED, ALUM
9C1	WHEEL - 20 X 9.0, J, STEEL, DESIGN 1
9C1	WHEEL SPARE - 20 X 9.0, J, STEEL, DESIGN 1
9C1	SALES PACKAGE - POLICE VEHICLE
9J4	BUMPER RR - (NONE)
9L3	TIRE SPARE - NONE
9L7	EQUIPMENT - ACSRY WRG JUNC BLK
A2S	ADJUSTER DRIVER SEAT - 4WAY, DISCONT MAN RECLINE, MAN FORE/AFT
A2X	ADJUSTER DRIVER SEAT - 8WAY, PWR RECLINE, PWR FORE/AFT, PWR HEIGHT, PWR TILT
A45	MEMORY - SEAT ADJUSTER, MIRROR, POWER, DRIVER, PERSONALIZATION
A48	WINDOW RR - FULL WIDTH, SLIDING, POWER
A4H	HANDLING CHARGE - SHIP THROUGH TO GROUND EFFECT, OSHAWA, CANADA
A50	SEAT - FRT BKT
A60	LOCK CONTROL RR CMPT - LID, TAILGATE, KEY ACTIVATED
A68	SEAT RR - SPLIT, FOLDING
A7E	ADJUSTER PASS ST - 4WAY, DISCONT MAN RECLINE, MAN FORE/AFT
A7K	ADJUSTER PASS ST - 8WAY, PWR RECLINE, PWR FORE/AFT, PWR HEIGHT, PWR TILT
AAK	ACCESSORY - FLOOR LINER - CONTOURED - ALT DESIGN 1
AAO	ACCESSORY - FLOOR LINER - CONTOURED - ALT DESIGN 2
AED	WINDOW REG PASS DR - POWER OPERATED, EXPRESS DOWN
AEF	WINDOW REG PASS DR - POWER OPERATED, EXPRESS UP/DOWN
AEQ	WINDOW REG REAR DR - POWER OPERATED, EXPRESS DOWN
AKO	WINDOW TYPE - PRIVACY
AKP	WINDOW TYPE - SOLAR ABSORBING
AL0	SENSOR INDICATOR - INFLATABLE RESTRAINT, FRT PASS/CHILD PRESENCE DETECTOR
AMF	LOCK CONTROL - ADDITIONAL, PROGRAMMABLE, REMOTE ENTRY, MULTIPLE UNITS
AQQ	LOCK CONTROL, ENTRY - REMOTE ENTRY, EXTENDED RANGE (MY 09 AND FUTURE)
ASV	EQUIPMENT - SENSOR AIR MOISTURE & W/S TEMP
AU3	LOCK CONTROL - SIDE DR, ELEC

RPO	Description
AU7	KEY - COMMON, FLEET
AVI	RESTRAINT PROVISIONS - ADJUSTABLE GUIDE LOOP
AVJ	LOCK CONTROL, ENTRY - REMOTE ENTRY, EXTENDED RANGE, PASSIVE ENTRY, FRONT DOORS
AXG	WINDOW REG DRVR DR - POWER OPERATED, EXPRESS UP/DOWN
AXK	VEHICLE TYPE - TRUCK
AY0	RESTRAINT SYSTEM - SEAT, INFLATABLE, DRIVER & PASS FRT, SEAT SIDE, ROOF SIDE
AZ3	SEAT - FRT SPLIT, DRIVER, PASS, FULL FEATURE CENTER
B1J	LINER - RR WHEELHOUSE
B26	ALERT - SAFETY HAPTIC SEAT
B26	PARK ASSIST - FRONT AND REAR
B26	REAR CROSS TRAFFIC - ALERT, BRAKING
B26	SENSOR INDICATOR - PEDESTRIAN DETECTION - REAR
B26	SIDE ACTIVE SAFETY - OBSTACLE DETECTION ENHANCED
B26	SIDE ACTIVE SAFETY - OBSTACLE DETECTION ENHANCED, EXTENDED TRAILER VIEW
B26	VISION - 360 VIEW, MONO, HD DIGITAL
B26	VISION TRAILER - INSIDE VIEW, REAR VIEW
B26	SALES PACKAGE - SAFETY PACKAGE VAR. 1
B30	COVERING FLOOR - CARPET
B32	COVERING FRT - FLOOR MATS, AUX
B33	COVERING REAR - FLOOR MATS, AUX
B34	COVERING FRT - FLOOR MATS, CARPETED INSERT
B35	COVERING REAR - FLOOR MATS, CARPETED INSERT
B3L	STEPS, RUNNINGBOARD - SIDE, RETRACTABLE, POWER, BLACK
B59	DEFOGGER - RR WINDOW, ELECTRIC
B59	REMOTE START - VEHICLE
B59	THEFT DETERENT - ELECTRICAL, UNAUTHORIZED ENTRY
B59	SALES PACKAGE - FUNCTIONAL PACKAGE
BAQ	AIR CLEANER - HIGH CAPACITY
BAQ	SALES PACKAGE - SKID PLATE, "OFF ROAD" SPORT
BAQ	SALES PACKAGE - STYLE VAR 1
BCN	LOCK CONTROL - RETAIL LOCKING FEATURE (SEO)
BG9	COVERING FLOOR - RUBBER

RPO	Description
BKE	COVERING REAR - FLOOR MATS, FLOOR LINER CARPET INSERT
BKF	COVERING FRT - FLOOR MATS, FLOOR LINER CARPET INSERT
BPH	AIR CLEANER - HIGH CAPACITY
BPH	AXLE POSITRACTION - LIMITED SLIP
BPH	BRK APL CTRL FEATURE - HILL DESCENT, GEAR HOLD
BPH	CHASSIS PACKAGE - "OFF ROAD"
BPH	CHASSIS PACKAGE - "OFF ROAD" 2 INCH LIFT
BPH	EXHAUST SYSTEM - DUAL
BPH	EXHAUST SYSTEM - PERFORMANCE
BPH	SALES PACKAGE - SKID PLATE, "OFF ROAD" SPORT
BPH	TRANSFER CASE - ACTIVE, TWO SPEED, SWITCH ACTIVATED, ALUM
BPH	APPEARANCE PACKAGE - CHEVROLET "OFF ROAD"
BRS	STEPS, RUNNINGBOARD - SIDE, RETRACTABLE, POWER, BRIGHT
BTM	SWITCH - START, KEYLESS
BTV	REMOTE START - VEHICLE
BVT	STEPS, RUNNINGBOARD - SIDE, CHROME
BWN	STEPS - CORNER ASSIST, BUMPER
C32	HEATER AIR SYSTEM - HEATING/ DEFROSTER SYSTEM, REINFORCED, ELECTRIC
C49	DEFOGGER - RR WINDOW, ELECTRIC
C59	VENT - AIR, CONSOLE, RR
C67	HVAC SYSTEM - AIR CONDITIONER FRT, ELECTRONIC CONTROLS
CE1	WIPER SYS WINDSHIELD - PULSE, MOISTURE SENSITIVE
CF5	ROOF - SUN, GLASS, SLIDING, ELEC
CGN	LINER - PUBX, SPRAY ON
CJ2	HVAC SYSTEM - AIR CONDITIONER FRT, AUTO TEMP CONT, AUX TEMP CONT
CTT	HITCH ASSIST - GUIDELINES
CWK	ACCESSORY - EXHAUST TIP - DESIGN 2
CWK	EXHAUST SYSTEM - DUAL
CWK	EXHAUST SYSTEM - PERFORMANCE
CWK	HOOK - TOW
CWK	LINER - PUBX, SPRAY ON
CWK	WHEEL - 18 X 8.5, J, ALUMINUM, DESIGN 11
CWK	WHEEL - 20 X 9.0, J, ALUMINUM, DESIGN 5
CWK	SALES PACKAGE - BLACK-OUT

RPO	Description
CWM	CRUISE CONTROL - AUTOMATIC, ADAPTIVE, WITH STOP/GO
CWM	HEAD UP DISPLAY - WINDSHIELD
CWM	MIRROR I/S R/V - LT SENSITIVE, FULL VIDEO DISPLAY
CWM	STEERING COLUMN - TILT, TELESCOPING, POWER
CWM	VISION AUXILIARY - CARGO BED
CWM	SALES PACKAGE - TECHNOLOGY
CXH	INTERIOR TRIM CONFIG - LEATHER, LEVEL 1, GIDEON/VY DK ATMOSPHERE
CXH	INTERIOR TRIM CONFIG - LEATHER, LEVEL 1, JET BLACK
CXH	SEAT RR - SPLIT, FOLDING, DELUXE STORAGE
CXH	SALES PACKAGE - INTERIOR LEATHER PACKAGE
D07	CONSOLE - FRT COMPT, FLOOR, CUSTOM
D31	MIRROR I/S R/V - TILT
D72	HANDLE O/S DOOR - BLACK
D75	HANDLE O/S DOOR - BODY COLOR
DD8	MIRROR I/S R/V - LT SENSITIVE
DEN	MIRROR O/S - LH & RH, MANUAL, MANUAL FOLD, FLAT/DRVR, CNVX/PASS
DEZ	MIRROR O/S - LH & RH, ELEC REMOTE, POWER FOLD, HEAT, PERM LIGHT, LT SENSITIVE DRVR, FLAT/DRVR, CNVX/PASS
DH6	MIRROR I/S FRT VAN - LH & RH, SUNSHADE, ILLUM
DLF	MIRROR O/S - LH & RH, RC, ELEC, HEAT, MAN FOLD, FLAT/DRVR, CNVXPASS
DNS	EQUIPMENT - SUPPLIER INSTALLED
DP6	MIRROR PROVISIONS - HOUSING, PAINTED
DP9	MIRROR PROVISIONS - HOUSING, CHROME
DPO	MIRROR O/S - LH & RH, WIDE FIELD OF VIEW, MAN EXTEND, MAN FOLD, HEATED, REMOTE CONT, AUX CARGO LMP, AUX CLEAR LMP
DQS	MIRROR O/S - LH & RH, WIDE LOAD, VERT GLS, MAN EXT, PWR FLD, HTD, TURN SIG IND, R/CON, MEMORY, AUX CLEAR LP, AUX CARGO LP
DRZ	MIRROR I/S R/V - LT SENSITIVE, FULL VIDEO DISPLAY
E20	HANDLE O/S DOOR - CHROME
E35	PICKUP BOX INNER - STEEL
E63	BODY EQUIPMENT - FLEETSIDE PICK-UP BOX
EF7	COUNTRY - UNITED STATES OF AMERICA (USA)

RPO	Description
ENL	ENG CONTROL DISABLE - STOP/START, NON-LATCHING
EPH	TRANS RANGE SEL SYS - ELECTRONIC
EU2	ACCESSORY - WHEEL - 18" X 8.0 - J - ALUMINUM - DESIGN 2
F48	CHASSIS DRIVE LINE - ALL WHEEL DRIVE (AWD)/FOUR WHEEL DRIVE(4WD), DRIVER SELECT
FE9	CERTIFICATION - EMISSION, FEDERAL
FHS	VEHICLE FUEL - GASOLINE E85
FHX	VEHICLE FUEL - DIESEL B20
FJW	VEHICLE FUEL - GASOLINE E15
FWI	PLANT CODE - FT WAYNE, IN, USA
G0S	SALES PACKAGE - CAMO EDITION
G1W	PRIMARY COLOR - EXTERIOR, ABALONE WHITE TRICOAT(140X)
G7C	PRIMARY COLOR - EXTERIOR, PULL ME OVER RED SOLID (130X)
G80	AXLE POSITRACTION - LIMITED SLIP
G93	AXLE - FRT ELECTRONIC LOCKING DIFFERENTIAL, DRIVER SELECT
G94	AXLE - RR ELECTRONIC LOCKING DIFFERENTIAL, DRIVER SELECT
GAZ	PRIMARY COLOR - EXTERIOR, SUMMIT WHITE (G) 8624
GBA	PRIMARY COLOR - EXTERIOR, BLACK (G) 8555
GBD	PRIMARY COLOR - EXTERIOR, AEGEAN SOLID (229K)
GEY	HANDLING CHARGE - FROM FT WAYNE ASM, TO GROUND EFFECTS LTD., FT WAYNE, IN, BACK TO FT WAYNE ASM.
GF2	TRIM PACKAGE - CUSTOM
GF3	TRIM PACKAGE - LT
GF4	TRIM PACKAGE - TRAIL BOSS LT
GF5	TRIM PACKAGE - WORK TRUCK
GF9	TRIM PACKAGE - LTZ
GFC	TRIM PACKAGE - RST
GFD	TRIM PACKAGE - HIGH COUNTRY
GG0	TRIM PACKAGE - LT-L
GJV	PRIMARY COLOR - EXTERIOR, RIP TIDE MET-1 (121J)
GNO	PRIMARY COLOR - EXTERIOR, BARB WIRE MET -1 (633D)
GNT	PRIMARY COLOR - EXTERIOR, RADIANT RED TINT MET-1 (170H)
GPZ	TRIM PACKAGE - TRAIL BOSS CUSTOM
GRZ	TRIM PACKAGE - ZR2
GT4	AXLE REAR - 3.73 RATIO
GU5	AXLE REAR - 3.23 RATIO

RPO	Description
GU6	AXLE REAR - 3.42 RATIO
GXD	PRIMARY COLOR - EXTERIOR, SHARKSKIN MET-1 (130H)
H0U	INTERIOR TRIM CONFIG - CLOTH, LEVEL 2, JET BLACK
H0Y	INTERIOR TRIM CONFIG - LEATHER, LEVEL 1, JET BLACK
H1T	INTERIOR TRIM CONFIG - CLOTH, LEVEL 1, JET BLACK
H1Y	INTERIOR TRIM CONFIG - LEATHER, LEVEL 2, JET BLACK
H2G	INTERIOR TRIM CONFIG - VINYL, LEVEL 1, JET BLACK
H37	INTERIOR TRIM CONFIG - LEATHER, LEVEL 7, JET BLACK / ARTEMIS
H38	INTERIOR TRIM CONFIG - LEATHER, LEVEL 8, JET BLACK / CAPTAIN BLUE
HF0	INTERIOR TRIM CONFIG - LEATHER, LEVEL 8, JET BLACK / UMBER
HS1	ALERT - SAFETY HAPTIC SEAT
HV5	INTERIOR TRIM CONFIG - CLOTH, LEVEL 2, GIDEON/VY DK ATMOSPHERE
HVC	INTERIOR TRIM CONFIG - LEATHER, LEVEL 1, GIDEON/VY DK ATMOSPHERE
HVE	INTERIOR TRIM CONFIG - LEATHER, LEVEL 2, GIDEON/VY DK ATMOSPHERE
HXC	INTERIOR TRIM CONFIG - LEATHER, LEVEL 8, JET BLACK
I0K	RADIO - INFOTAINMENT SYSTEM - 3.X MID/HIGH HMI, ENHANCED CONNECTIVITY 2.0, VOICE RECOGNITION
I0R	RADIO - INFOTAINMENT SYSTEM - 3.X LOW HMI, MIDLEVEL CONNECTIVITY 3.X
J25	ENGINEERING YEAR - 2025
J55	BRAKE SYSTEM - HEAVY DUTY
J61	BRAKE SYSTEM - POWER, FRT & RR DISC, ABS, 17"
JBP	BRAKE LINING WEAR SY - LIFE SPAN PROGNOSTIC INDICATOR
JHD	BRK APL CTRL FEATURE - HILL DESCENT, GEAR HOLD
JL1	BRK APL CTRL FEATURE - INTEGRATED TRAILER BRAKE
K05	HEATER ENG - BLOCK
K34	CRUISE CONTROL - AUTOMATIC, ELECTRONIC
K47	AIR CLEANER - HIGH CAPACITY
K4C	CHARGER - INDUCTIVE PORTABLE WIRELESS DEVICE
K53	AIR CLEANER - PERFORMANCE
KA1	HEATER SEAT FRT - DRVR & PASS
KA6	HEATER SEAT - REAR
KC4	COOLING SYSTEM - ENG OIL

RPO	Description
KC5	RECEPTACLE - ELECTRICAL, ACCESSORY
KC9	RECEPTACLE PUBX - ELECTRICAL, 110 VOLT
KGU	MODULE - UPFITTER, SERIAL DATA GATEWAY
KI3	STEERING WHEEL HEAT - AUTOMATIC
KI4	RECEPTACLE I/P - ELECTRICAL, 110 VOLT
KL9	ENG CONTROL - STOP/START SYS, CONVENTIONAL AT, CONVENTIONAL MT OR BRAKE RELEASE LATE RESTART
KLF	ENG CONTROL - STOP/START SYS, DISABLE FUNCTION
KNP	COOLING SYSTEM - TRANS, HD
KQV	HEATER - SEAT, VENTED, FRT
KSG	CRUISE CONTROL - AUTOMATIC, ADAPTIVE, WITH STOP/GO
KW5	GENERATOR - 220 AMP
KW7	GENERATOR - 170 AMP
L3B	ENGINE - GAS, 4 CYL, L4, 2.7L, SIDI, VVT, TURBO, DOHC, ALUM
L84	ENGINE - GAS, 8 CYL, 5.3L, V8, DI, DFM, ALUM, GEN 5
L87	ENGINE - GAS, 8 CYL, V8, 6.2L, DI, DFM, ALUM, GEN 5
LZ0	ENGINE - DIESEL, 6 CYL, 3.0L, CRI, L6, DOHC, TURBO, VGT, ALUM, CSS50V, VAR. 2
MAH	MARKETING AREA - US, PUERTO RICO/ USVI
MFC	TRANSMISSION - AUTO 8 SPD, 8L80, GEN 2, ATSS, CPA
MHS	TRANSMISSION - AUTO 10 SPD, 10L80, GRX, GEN 1, ATSS, ETRS, VAR 1
MHT	TRANSMISSION - AUTO 10 SPD, 10L80, GRX, GEN 1, ATSS, VAR 1
MI2	TRANSMISSION - AUTO 10 SPD, 10L80, GRX, VAR 1, GEN 1
MQB	TRANSMISSION - AUTO 10 SPD, 10L80, ATSS, CPA, GEN 2
MQC	TRANSMISSION - AUTO 10 SPD, 10L80, ATSS, ETRS, CPA, GEN 2
MSL	PLANT CODE - SILAO, MEXICO
N06	STEERING COLUMN LOCK - ELECTRICAL
N10	EXHAUST SYSTEM - DUAL
N33	STEERING COLUMN - TILT TYPE
N37	STEERING COLUMN - TILT, TELESCOPING
N38	STEERING COLUMN - TILT, TELESCOPING, POWER
N57	STEERING WHEEL - SYNTHETIC, 4 SPOKE, THIN, ROUND
N5G	STEERING WHEEL - SYNTHETIC, 4 SPOKE, SPORT, ROUND

RPO	Description
NAA	ACCESSORY - ROCKER GUARD - TUBULAR
NB5	EXHAUST SYSTEM - SINGLE
NE1	CERTIFICATION - EMISSION, GEOGRAPHICALLY RESTRICTED REGISTRATION
NHT	AXLE POSITRACTION - LIMITED SLIP
NHT	AXLE REAR - 3.42 RATIO
NHT	AXLE REAR - 3.73 RATIO
NHT	BRK APL CTRL FEATURE - INTEGRATED TRAILER BRAKE
NHT	PERFORMANCE PACKAGE - ENHANCED TOWING
NK5	STEERING WHEEL - STANDARD
NKD	NOISE CONTROL - SOUND ENHANCEMENT
NP0	TRANSFER CASE - ACTIVE, SINGLE SPEED, SWITCH ACTIVATED, ALUM
NPP	EXHAUST SYSTEM - PERFORMANCE
NQH	TRANSFER CASE - ACTIVE, TWO SPEED, SWITCH ACTIVATED, ALUM
NTB	EMISSION SYSTEM - FEDERAL, TIER 3
NUB	EMISSION SYSTEM - CALIFORNIA, ULEV70
NUC	EMISSION SYSTEM - CALIFORNIA, ULEV50
NUG	EMISSION SYSTEM - CALIFORNIA, SULEV30
NZN	WHEEL - 20 X 9.0, J, ALUMINUM, DESIGN 11
NZP	WHEEL - 20 X 9.0, J, ALUMINUM, DESIGN 12
NZV	WHEEL - 20 X 9.0, J, ALUMINUM, DESIGN 21
NZZ	SALES PACKAGE - SKID PLATE, "OFF ROAD" SPORT
OST	PLANT CODE - OSHAWA 2, ONT, CANADA
PPW	PHONE PROJECTION - PHONE PROJECTION WIRELESS
PTT	TRAILER TIRE PRESSUR - MANUAL LEARN
PXT	WHEEL - 20 X 9.0, J, STEEL, DESIGN 1
PZ8	IMAGE ADJUSTMENT - HITCH VIEW
PZ9	PLATE - SKID, FUEL TANK
PZG	PLATE - SKID FRT
PZL	PLATE - SKID RR DIFFERENTIAL
PZN	PLATE - SKID TRANSFER CASE
Q5U	WHEEL - 17 X 8.0, J, ALUMINUM, DESIGN 2
Q81	WHEEL - 18 X 8.5, J, ALUMINUM, DESIGN 17
QAB	TIRE ALL - 275/60R20 SL 115S BW AL2

RPO	Description
QAE	TIRE ALL - 275/60R20 SL 115S BW AT
QAQ	TIRE SPARE - 255/80R17 SL 115S BW SPR
QBN	TIRE ALL - 255/70R17 SL 112S BW ALS VAR 1
QBR	TIRE SPARE - 255/70R17 SL 112S BW ALS VAR1
QDF	TIRE ALL - 265/65R18 SL 114T BW ALS VAR 1
QDS	TIRE ALL - 265/65R18 SL 114T WOL AT VAR 1
QDV	TIRE ALL - 265/70R17 SL 115S BW AT VAR 1
QFL	TIRE ALL - LT275/70R18 C 115/112Q BW OOR, VAR1
QFV	TIRE ALL - LT265/60R20 C 110/107S BW OOR, VAR 1
QK1	GATE TYPE - PUBX END STANDARD
QK2	GATE TYPE - PUBX END ENHANCED
QT2	GATE FUNCTION - MANUAL
QT5	GATE FUNCTION - MANUAL ASSIST POWER RELEASE
QT6	GATE FUNCTION - POWER
R3O	TIRE ALL - LT275/65R18 C 113/110Q BW OOR, VAR1
R7O	SEAT RR - SPLIT, FOLDING, BASE STORAGE
R88	ACCESSORY - ILLUMINATED EMBLEM - EXTERIOR - DESIGN 2
RBR	WHEEL - 22 X 9.0, J, STEEL, DESIGN 1
RC5	TIRE ALL - LT265/70R17 C 112Q BW AT
RCP	ACCESSORY TIRE - TIRE ALL - LT275/65R18 C 113/110Q BW OOR VAR1
RCV	WHEEL - 18 X 8.5, J, ALUMINUM, DESIGN 4
RCW	WHEEL - 18 X 8.5, J, ALUMINUM, DESIGN 5
RD1	WHEEL - 18 X 8.5, J, ALUMINUM, DESIGN 6
RD5	WHEEL - 20 X 9.0, J, ALUMINUM, DESIGN 5
RD6	WHEEL - 17 X 8.0, J, STEEL, DESIGN 2
RDI	ACCESSORY - KEYLESS ENTRY
RHF	TIRE SPARE - LT275/70R18 C 115/112Q BW OOR
RHM	TIRE SPARE - LT265/70R17 C 112Q BW AT
RHO	WHEEL - 20 X 9.0, J, ALUMINUM, DESIGN 19
RIA	ACCESSORY - FLOOR LINER - CONTOURED
RIK	ACCESSORY - BADGE - EXTERIOR, PACKAGE, DESIGN 1

RPO	Description
RM7	WHEEL SPARE - 17 X 8.0, J, STEEL, DESIGN 1
RMW	TIRE SPARE - 275/60R20 SL 115S BW AT
RN2	ACCESSORY - ILLUMINATED EMBLEM - EXTERIOR - DESIGN 1
RNQ	WHEEL SPARE - 20 X 9.0, J, STEEL, DESIGN 1
RO1	ACCESSORY - GRILLES/GRILLE INSERT - ALTERNATE DESIGN 3
RPP	WHEEL - 17 X 8.0, J, STEEL, DESIGN 4
RPS	WHEEL - 20 X 9.0, J, ALUMINUM, DESIGN 13
RPT	WHEEL - 22 X 9.0, J, ALUMINUM, DESIGN 14
RQL	WHEEL - 18 X 8.5, J, ALUMINUM, DESIGN 11
RSI	ACCESSORY - CARGO AREA ORGANIZER - RECONFIGURABLE
RSR	OCCUPANT DETECT SYS - REAR SEAT, DOOR ACTIVATED
RVG	ACCESSORY - ADAPTER - TRAILER HARNESS
RVP	ACCESSORY - ASSIST STEPS - REMOVABLE
RVQ	ACCESSORY - ASSIST STEPS - TUBULAR - OVAL - BLACK
RVS	ACCESSORY - ASSIST STEPS - TUBULAR - ROUND - BLACK
RVY	ACCESSORY - PUBX CARGO DIVIDER
RW9	ACCESSORY - BED STORAGE BOX - SIDE FULL LENGTH - COMPOSITE
RWA	ACCESSORY - BED STORAGE BOX - FOAM
RWL	CHASSIS DRIVE LINE - REAR WHEEL DRIVE (RWD)
RWS	ACCESSORY - FLOOR MATS - CARPET
RXC	ACCESSORY - AIR, POLLUTANT, ODOR, FINE DUST, ALLERGEN
RXH	ACCESSORY - CENTER CAP - WHEEL - DESIGN 1
RXJ	ACCESSORY - CENTER CAP - WHEEL - DESIGN 2
RXQ	ACCESSORY - CONVENIENCE NET - BED MOUNTED
RYT	ACCESSORY - FIRST AID KIT
S08	ACCESSORY - HIGHWAY SAFETY KIT
S0M	ACCESSORY - ILLUMINATED DOOR SILLS
S0T	ACCESSORY - INTERIOR TRIM KIT - ALTERNATE FINISH 1
S0Y	ACCESSORY - LAMPS - CARGO AREA
S1H	ACCESSORY - OFF-ROAD RECOVERY KIT
S1O	ACCESSORY - CONTAINER - LOCKABLE STORAGE - INTERIOR

RPO	Description
S1W	WHEEL SPARE - 18 X 8.5, J, ALUMINUM, DESIGN 1
S2B	WHEEL SPARE - 17 X 7.0, J, ALUMINUM, DESIGN 1
S2E	WHEEL SPARE - 18 X 8.5, J, ALUMINUM, DESIGN 3
S3I	ACCESSORY - LAMPS - PERIMETER ILLUMINATION
S41	ACCESSORY - LINER - WHEEL HOUSE
S47	ACCESSORY - LUG NUTS
S4C	WHEEL SPARE - 18 X 8.5, J, ALUMINUM, DESIGN 4
S4K	ACCESSORY - CARGO STRAP - FLEXIBLE ORGANIZER - RR COMPT
S4W	ACCESSORY - LUG NUT AND WHEEL LOCK KIT DESIGN 2
S4X	ACCESSORY - MIRROR COVERS/SKULL CAPS - ALTERNATE FINISH - PAINTED
S6L	ACCESSORY - PROTECTOR - ROCKER PANEL
S6N	ACCESSORY - RECEIVER COVER - TRAILER HITCH
S6P	ACCESSORY - REMOTE START KIT
S6Z	ACCESSORY - SEAT COVER - TAILORED - ALTERNATE MATERIAL
SAF	LOCK - SPARE TIRE, HOIST SHAFT
SAM	ACCESSORY - SKID PLATES
SAX	ACCESSORY - SPEAKER KIT - LEVEL 1
SB1	ACCESSORY - SPLASH GUARDS - FLAT
SB7	ACCESSORY - DECAL PACKAGE - DESIGN 1
SB9	ACCESSORY - DECAL PACKAGE - DESIGN 2
SBY	ACCESSORY - SPORT BAR - BED MOUNTED - DESIGN 1
SBZ	ACCESSORY - SPORT PEDAL KIT
SC1	ACCESSORY - STABILIZER BAR KIT
SD5	ACCESSORY - TIRE PRESSURE MONITOR
SDA	ACCESSORY - TOW HOOKS
SDE	ACCESSORY - TRAILER HITCH - REMOVABLE
SDT	ACCESSORY - TRAILOR HITCH - HOLDER
SE5	ACCESSORY - WHEEL - 18" - ALUMINUM - DESIGN 2
SEH	ACCESSORY - WHEEL - 20" - ALUMINUM - DESIGN 1
SEM	ACCESSORY - WHEEL - 20" - ALUMINUM - DESIGN 5
SEU	ACCESSORY - WHEEL - 22 X 9.0 - J - ALUMINUM - DESIGN 2

RPO	Description
SEV	ACCESSORY - WHEEL - 22 X 9.0 - J - ALUMINUM - DESIGN 3
SEZ	ACCESSORY - WHEEL - 22 X 9.0 - J - ALUMINUM - DESIGN 6
SF5	ACCESSORY - WHEEL FLARES - ALTERNATE DESIGN - MOLDED COLOR
SF8	ACCESSORY - DECAL PACKAGE - DESIGN 3
SFE	ACCESSORY - WHEEL LOCKS
SFJ	ACCESSORY - WINDOW SHADES - REFLECTIVE
SFU	ACCESSORY - WHEEL - 22" - ALUMINUM - DESIGN 12
SFZ	ACCESSORY - EMBLEM - EXTERIOR - DESIGN 1
SG3	ACCESSORY - SPRINGS - SPORT SUSPENSION
SGM	ACCESSORY - WHEEL - 22 X 9.0 - J - ALUMINUM - DESIGN 9
SIE	ACCESSORY - PUBX TIERED STORAGE
SIL	ACCESSORY - RSE - PORTABLE MEDIA CONNECTIVITY PKG - W/INTEGRATED POWER
SJS	ACCESSORY - UTILITY WALL - FRONT
SL7	ACCESSORY - PUBX LADDER / UTILITY RACK STANCHIONS
SMZ	ACCESSORY - OFF ROAD DRIVE SHAFT
SNR	SEAT RR - SPLIT, FOLDING, DELUXE STORAGE
SNS	ACCESSORY - DECAL PACKAGE - DESIGN 28
SPY	ACCESSORY - LUG NUTS - ALT FINISH
SPZ	ACCESSORY - WHEEL LOCKS - ALT FINISH
SRL	ACCESSORY - WHEEL - 22 X 9.0 - J - ALUMINUM - DESIGN 13
SRV	ACCESSORY - WHEEL - 22 X 9.0 - J - ALUMINUM - DESIGN 14
SSW	ACCESSORY - WHEEL - 22 X 9.0 - J - ALUMINUM - DESIGN 17
STH	SALES PACKAGE - RALLY 2
SUR	ACCESSORY - TRAILER TIRE PRESSURE MONITOR
T3U	LAMP FRT FOG - FRT FOG
T4Z	SEAT BELT SAFETY SYS - SHIFTER INTERLOCK, GEN 1, NON-CUSTOMIZABLE
T8Z	SEAT BELT SAFETY SYS - SHIFTER INTERLOCK, GEN 3, INFOTAINMENT CUSTOMIZABLE
TDM	MODE DRIVER SETTINGS - TEEN DRIVER, INFOTAINMENT
TQ5	HEADLAMP HIGH BEAM - AUTO CONTROL

RPO	Description
TRG	VISION TRAILER - INSIDE VIEW, REAR VIEW
TRO	ACCESSORY - CAMERA PKG - TRAILERING AUX MOUNTED
TT0	ACCESSORY - TRAILERING HOOKUP ASSIST
TUF	ORNAMENTATION - EMBLEM, "TEXAS EDITION"
U12	LAMP - EXTR, OSRV MIRROR, TASK
U2J	DIGITAL AUDIO SYSTEM - S-BAND - NONE
U2K	DIGITAL AUDIO SYSTEM - S-BAND
U73	ANTENNA - FIXED, RADIO
U95	SPEAKER SYSTEM - 2, BASE
UBC	RECPT USB ARMREST - DUAL, CHARGE, DATA
UBI	RECPT USB FLR CNSL R - DUAL, CHARGE
UBJ	RECPT USB IP LWR - DUAL, CHARGE, DATA
UD5	PARK ASSIST - FRONT AND REAR
UDC	DISPLAY INSTRUMENT - DRIVER INFO ENHANCED (ONE COLOR GRAPHIC)
UDU	PROVISIONS - REAR CAMERA PREP
UDV	DISPLAY INSTRUMENT - DRIVER INFO ENHANCED, FULL CLUSTER (MULTI COLOR GRAPHIC)
UE1	COMMUNICATION SYSTEM - VEHICLE, ONSTAR
UE4	SENSOR INDICATOR - FOLLOWING DISTANCE
UET	INDICATOR - SMART TRAILER INTEGRATION
UEU	SENSOR INDICATOR - FORWARD COLLISION ALERT
UF2	LAMP - CARGO
UFB	REAR CROSS TRAFFIC - ALERT, BRAKING
UG1	OPENER - GARAGE DOOR, UNIVERSAL
UGA	HOOK - TOW, RED
UGN	COLL IMMINENT BRK - ALL SPEED, VEH FWD MOVEMENT, BRAKE PREFILL, INTEGRATED BRAKE ASSIST
UH5	INDICATOR - SEAT BELT WARNING, REAR SEAT
UHL	VEHICLE - U-HAUL
UHX	LANE ACTIVE SAFETY - KEEP ASSIST
UHY	COLL IMMINENT BRK - LOW SPEED, VEH FWD MOVEMENT, BRAKE PREFILL, INTEGRATED BRAKE ASSIST
UIR	INFOTAINMENT DISPLAY - NORMALLY BLACK COLOR (TFT), 7", WVGA 800X480P
UJN	TIRE PRESS INDICATOR - AUTO LEARN

RPO	Description
UK3	CONTROL - STEERING WHEEL, ACCESSORY
UKC	SIDE ACTIVE SAFETY - OBSTACLE DETECTION ENHANCED
UKJ	PED DETECTION FRT - BASIC, PEDESTRIANS
UKK	SENSOR INDICATOR - PEDESTRIAN DETECTION - REAR
UKL	LANE ACTIVE SAFETY - KEEP ASSIST, HANDS FREE LANE FOLLOWING(ENTIRE SPEED RANGE)
UKV	SIDE ACTIVE SAFETY - OBSTACLE DETECTION ENHANCED, EXTENDED TRAILER VIEW
ULK	ACCESSORY - TOW HOOKS - RED
ULV	BUMPER FRT - SPORT
ULV	BUMPER RR - SPORT
ULV	GATE TYPE - PUBX END ENHANCED
ULV	PLATE - SKID FRT
ULV	PLATE - SKID RR DIFFERENTIAL
ULV	PLATE - SKID TRANSFER CASE
ULV	PLATE - SKID, FUEL TANK
ULV	WHEEL - 18 X 8.5, J, ALUMINUM, DESIGN 17
ULV	WHEEL - 18 X 8.5, J, ALUMINUM, DESIGN 19
ULV	SALES PACKAGE - CHEVROLET BISON
UMN	SPEEDOMETER - INST, MILES & KILO, MILES ODOMETER
UNW	ACCESSORY - UTILITY WALL U-NUT
UQA	SPEAKER SYSTEM - PREMIUM AUDIO, BRANDED AMPLIFIER
UQF	SPEAKER SYSTEM - STANDARD AUDIO
URC	SWITCH - FLEXRIDE MODE SYSTEM
URD	INFOTAINMENT DISPLAY - NORMALLY BLACK COLOR (TFT), 13.4", 2400X960
UTJ	THEFT DETERENT - ELECTRICAL, UNAUTHORIZED ENTRY
UV2	VISION - 360 VIEW, MONO, HD DIGITAL
UV6	HEAD UP DISPLAY - WINDSHIELD
UVB	VISION - REAR VIEW, MONO, HD DIGITAL
UVN	VISION AUXILIARY - CARGO BED
V46	BUMPER FRT - CHROME
V76	HOOK - TOW
V8D	VEHICLE STATEMENT - VEHICLE LABEL CONTENT - U.S. FMVSS
VAV	ACCESSORY - FLOOR MATS - ALL WEATHER
VB5	BUMPER FRT - COLOR
VBJ	ACCESSORY - UNDERSEAT STORAGE

RPO	Description
VBN	ACCESSORY - PUBX CARPET
VBR	ACCESSORY - PUBX RUBBER MAT
VGC	PROTECTOR - FILM, PAINT ETCH PREVENTIVE
VH6	BUMPER FRT - BLACK
VHU	BUMPER FRT - SPORT
VJG	BUMPER RR - BLACK
VJH	BUMPER RR - CHROME
VK3	LICENSE PLATE FRONT - FRT MOUNTING PKG
VKU	ACCESSORY - MIRROR CAPS - CHROME
VLQ	HOOK - TOW, CHROME
VMK	ACCESSORY - CARGO MANAGEMENT SYSTEM RAILS
VNI	ACCESSORY - REAR FASCIA APPLIQUE - ALTERNATIVE FINISH 1
VOZ	ACCESSORY - TONNEAU - RR COMPT - HARD FOLDING - ALT DESIGN
VPB	ACCESSORY - TONNEAU - RR COMPT - VINYL W/ INTEGRAL CROSSBOW SUPPORTS
VPS	BUMPER RR - SPORT
VQK	ACCESSORY - SPLASH GUARDS - CUSTOM MOLDED
VQM	ACCESSORY - ASSIST STEPS - CHROME
VQO	ACCESSORY - ASSIST STEPS - BLACK
VQY	ACCESSORY - TOW HOOKS - CHROME
VQZ	ACCESSORY - EXHAUST TIP - DESIGN 1
VST	ACCESSORY - SILL PLATES - ALTERNATE DESIGN 1
VSX	LABEL - TOWING
VT2	ACCESSORY - ASSIST STEPS - ALTERNATE FINISH
VT5	BUMPER RR - COLOR KEYED
VT7	OWNERS MANUAL - ENGLISH LANGUAGE
VT8	ACCESSORY - EXHAUST TIP - DESIGN 2
VTI	SHUTTERS - FRONT GRILLE, ACTIVE, UPR
VUK	ACCESSORY - TAILGATE LINER - PUBX
VV4	COMMUNICATION EQUIP - MOBILE INTERNET CONNECTIVITY
VW9	ACCESSORY - CENTER CAP - WHEEL - DESIGN 3
VWD	ACCESSORY - CENTER CAP - WHEEL - DESIGN 4
VXH	ACCESSORY - ASSIST STEPS - TUBULAR - CHROME - OVAL
VXJ	ACCESSORY - ASSIST STEPS - TUBULAR - CHROME - ROUND
VXT	VEHICLE TYPE - INCOMPLETE

RPO	Description
VXW	ACCESSORY - ASSIST STEPS - MOLDED
VYP	ACCESSORY - WHEEL TRIM RING DESIGN 2
VYU	PROVISIONS - SNOW PLOW PREP
VZ2	CALIBRATION - SPEEDOMETER A
VZX	ACCESSORY - PUBX BEDLINER
W09	ACCESSORY - TAILGATE GAP COVER
W1V	ACCESSORY - FLOOR MATS - PREMIUM CARPET - ALT DESIGN
W2D	ACCESSORY - CARGO NET
WBC	ACCESSORY - EXHAUST UPGRADE
WBP	BUMPER FRT - COLOR
WBP	BUMPER RR - COLOR KEYED
WBP	CHASSIS PACKAGE - "OFF ROAD" 2 INCH LIFT
WBP	COVERING FLOOR - CARPET
WBP	DIGITAL AUDIO SYSTEM - S-BAND
WBP	REMOTE START - VEHICLE
WBP	THEFT DETERENT - ELECTRICAL, UNAUTHORIZED ENTRY
WBP	WHEEL - 18 X 8.5, J, ALUMINUM, DESIGN 3
WBP	WHEEL - 20 X 9.0, J, ALUMINUM, DESIGN 3
WGQ	ACCESSORY - ASSIST STEPS - TUBULAR - ROUND - BLACK
WGQ	EXHAUST SYSTEM - DUAL
WGQ	EXHAUST SYSTEM - PERFORMANCE
WGQ	WHEEL - 20 X 9.0, J, ALUMINUM, DESIGN 13
WGQ	SALES PACKAGE - REDLINE
WJP	ACCESSORY - WHEEL - 22 X 9.0 - J - ALUMINUM - DESIGN 14
WJP	BUMPER FRT - COLOR
WJP	BUMPER RR - COLOR KEYED
WJP	HANDLE O/S DOOR - BODY COLOR
WJP	HOOK - TOW
WJP	INTERIOR TRIM CONFIG - LEATHER, LEVEL 8, JET BLACK
WJP	MIRROR PROVISIONS - HOUSING, PAINTED
WJP	STEPS, RUNNINGBOARD - SIDE, RETRACTABLE, POWER, BLACK
WJP	TIRE ALL - 275/50R22 SL 111T BW AL2 VAR 1
WJP	TIRE ALL - 275/60R20 SL 115S BW AT
WJP	WHEEL - 20 X 9.0, J, ALUMINUM, DESIGN 5
WJP	WHEEL - 22 X 9.0, J, STEEL, DESIGN 1

RPO	Description
WJP	SALES PACKAGE - MIDNIGHT EDITION
WLD	WINDOW CONTROL - REMOTE EXPRESS DOWN, ALL WINDOWS
WMI	SHUTTERS - FRONT GRILLE, ACTIVE, UPR AND LWR
WMZ	VIN MODEL YEAR - 2025
WPC	CRUISE CONTROL - AUTOMATIC, ADAPTIVE, WITH STOP/GO
WPC	HEATER SEAT - REAR
WPC	OPENER - GARAGE DOOR, UNIVERSAL
WPC	WINDOW RR - FULL WIDTH, SLIDING, POWER
WPC	SALES PACKAGE - COMFORT AND CONVENIENCE
WPQ	LINER - PUBX, SPRAY ON
WPQ	LINER - RR WHEELHOUSE
WPQ	SALES PACKAGE - PROTECTION
X31	AIR CLEANER - HIGH CAPACITY
X31	AXLE POSITRACTION - LIMITED SLIP
X31	BRK APL CTRL FEATURE - HILL DESCENT, GEAR HOLD
X31	CHASSIS PACKAGE - "OFF ROAD"
X31	EXHAUST SYSTEM - DUAL
X31	EXHAUST SYSTEM - PERFORMANCE
X31	SALES PACKAGE - SKID PLATE, "OFF ROAD" SPORT
X31	TRANSFER CASE - ACTIVE, TWO SPEED, SWITCH ACTIVATED, ALUM
X88	MARKET BRAND - CHEVROLET
XCE	TIRE ALL - 275/50R22 SL 111T BW AL2 VAR 1
XCK	TIRE ALL - 265/65R18 SL 114T BW AT VAR1
XCQ	TIRE SPARE - 265/70R17 SL 115S BW SPR VAR1
XD5	ACCESSORY TIRE - TIRE ALL-275/50R22 SL 111T BW AL2
XDF	ACCESSORY TIRE - TIRE ALL - 275/60R20 SL 115S BW AT
YD9	LEAF SPRING - COMPOSITE MONO LEAF
YF5	CERTIFICATION - EMISSION, CALIFORNIA
Z45	CHASSIS PACKAGE - CONTINUOUS DAMPING CONTROL
Z60	CHASSIS PACKAGE - HIGH PERFORMANCE
Z71	CHASSIS PACKAGE - "OFF ROAD"
Z7X	CHASSIS PACKAGE - "OFF ROAD" 2 INCH LIFT
Z82	TRAILER PROVISIONS - SPECIAL EQUIPMENT, H.D.

RPO	Description
Z85	CHASSIS PACKAGE - INCREASED CAPACITY
ZL3	ADJUSTER DRIVER SEAT - 8WAY, PWR RECLINE, PWR FORE/AFT, PWR HEIGHT, PWR TILT
ZL3	CHARGER - INDUCTIVE PORTABLE WIRELESS DEVICE
ZL3	CONSOLE - FRT COMPT, FLOOR, CUSTOM
ZL3	DEFOGGER - RR WINDOW, ELECTRIC
ZL3	HEATER - SEAT, VENTED, FRT
ZL3	HVAC SYSTEM - AIR CONDITIONER FRT, AUTO TEMP CONT, AUX TEMP CONT
ZL3	LAMP - CARGO
ZL3	MIRROR O/S - LH & RH, RC, ELEC, HEAT, MAN FOLD, FLAT/DRVR, CNVXPASS
ZL3	MIRROR O/S - LH & RH, WIDE FIELD OF VIEW, MAN EXTEND, MAN FOLD, HEATED, REMOTE CONT, AUX CARGO LMP, AUX CLEAR LMP
ZL3	RECEPTACLE I/P - ELECTRICAL, 110 VOLT
ZL3	RECEPTACLE PUBX - ELECTRICAL, 110 VOLT
ZL3	RECPT USB FLR CNSL R - DUAL, CHARGE
ZL3	SEAT - FRT BKT
ZL3	SPEAKER SYSTEM - PREMIUM AUDIO, BRANDED AMPLIFIER
ZL3	STEERING COLUMN - TILT, TELESCOPING
ZL3	STEERING COLUMN - TILT, TELESCOPING, POWER
ZL3	WINDOW TYPE - PRIVACY
ZL3	SALES PACKAGE - CONVENIENCE
ZL6	BRK APL CTRL FEATURE - INTEGRATED TRAILER BRAKE
ZL6	IMAGE ADJUSTMENT - HITCH VIEW
ZL6	INDICATOR - SMART TRAILER INTEGRATION
ZLQ	MIRROR O/S - LH & RH, RC, ELEC, HEAT, MAN FOLD, FLAT/DRVR, CNVXPASS
ZLQ	MIRROR O/S - LH & RH, WIDE FIELD OF VIEW, MAN EXTEND, MAN FOLD, HEATED, REMOTE CONT, AUX CARGO LMP, AUX CLEAR LMP
ZLQ	SALES PACKAGE - LS FLEET
ZM9	HEATER SEAT FRT - DRVR & PASS
ZM9	STEERING WHEEL HEAT - AUTOMATIC
ZM9	SALES PACKAGE - COMFORT & CONVENIENCE
ZRX	CHASSIS PACKAGE - HIGH PERFORMANCE LIFTED
ZW9	BODY EQUIPMENT - BASE BODY OR CHASSIS

Section 1

Body Systems

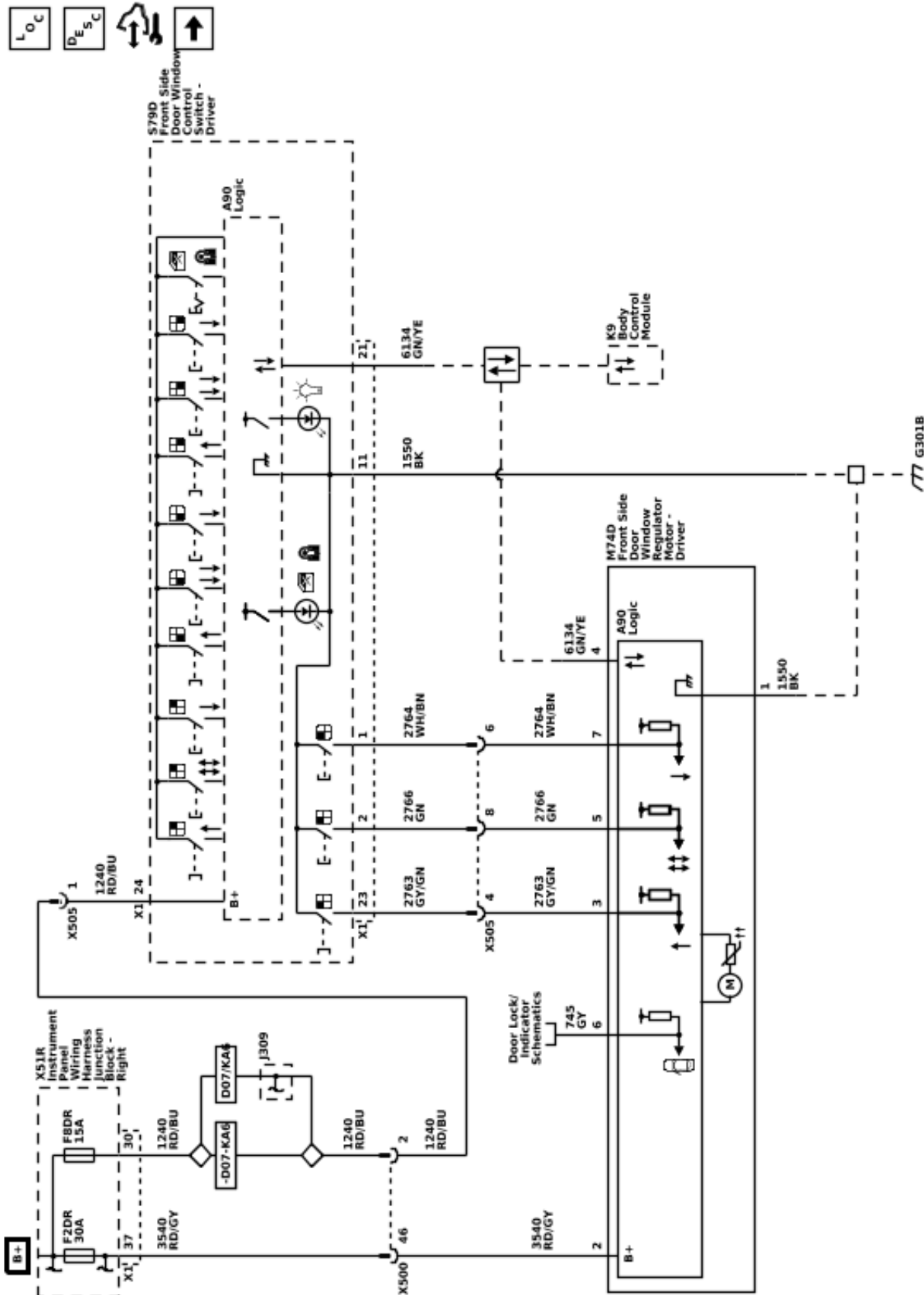
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Inside Rearview Mirror Schematics	1-46		
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Body Systems

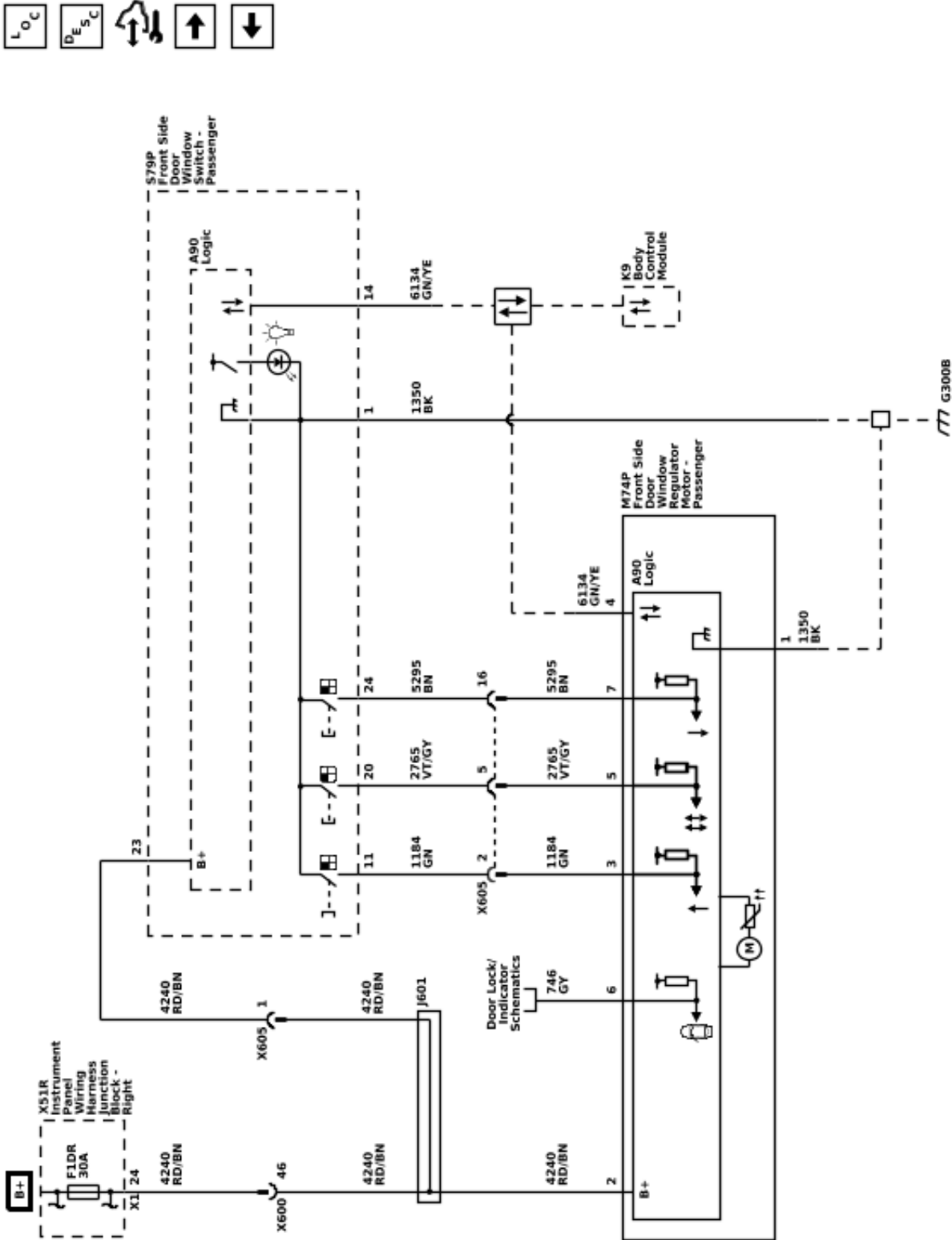
Fixed and Moveable Windows

Schematic and Routing Diagrams

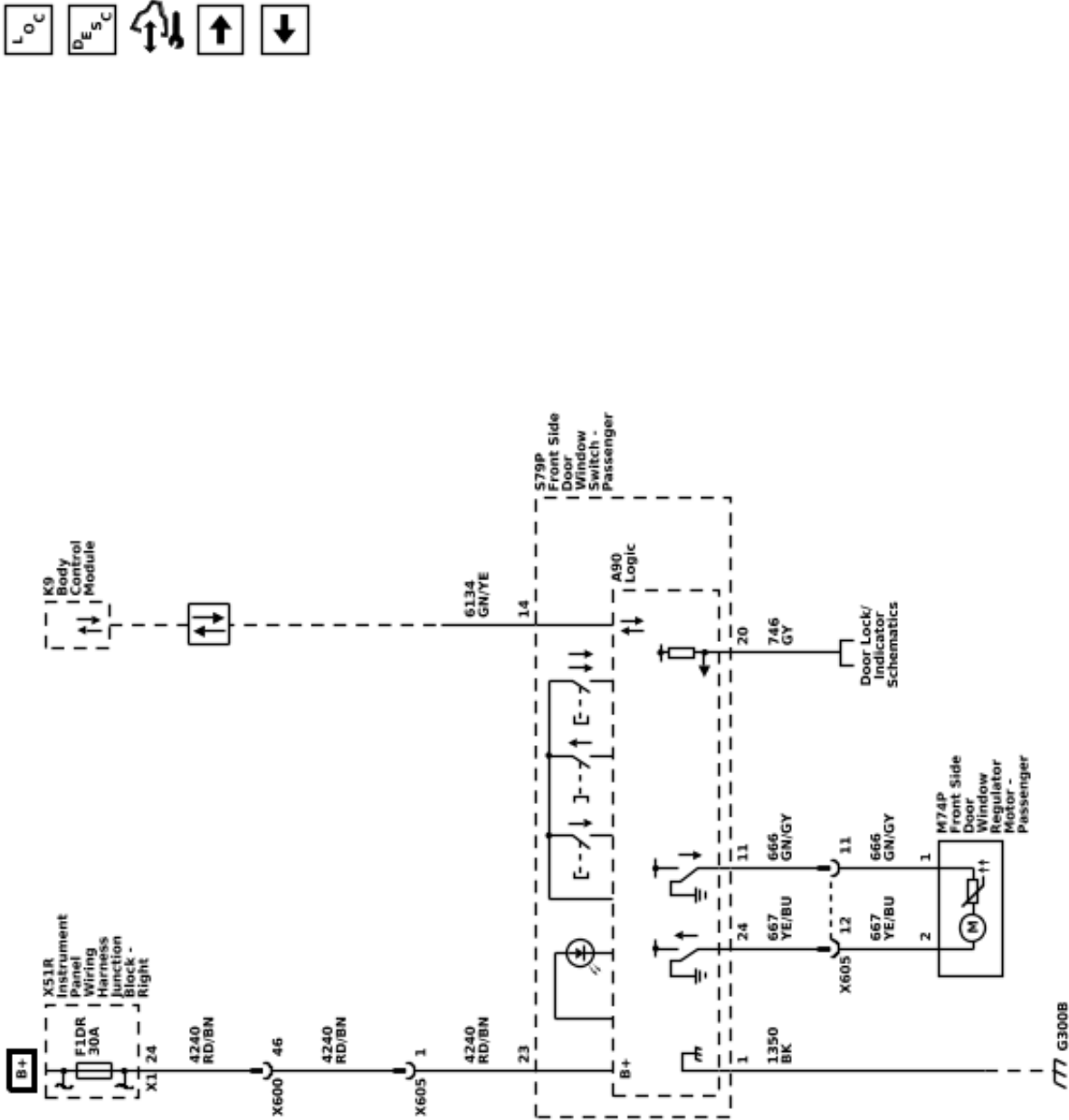
Moveable Window Schematics (Driver Window (AXG))



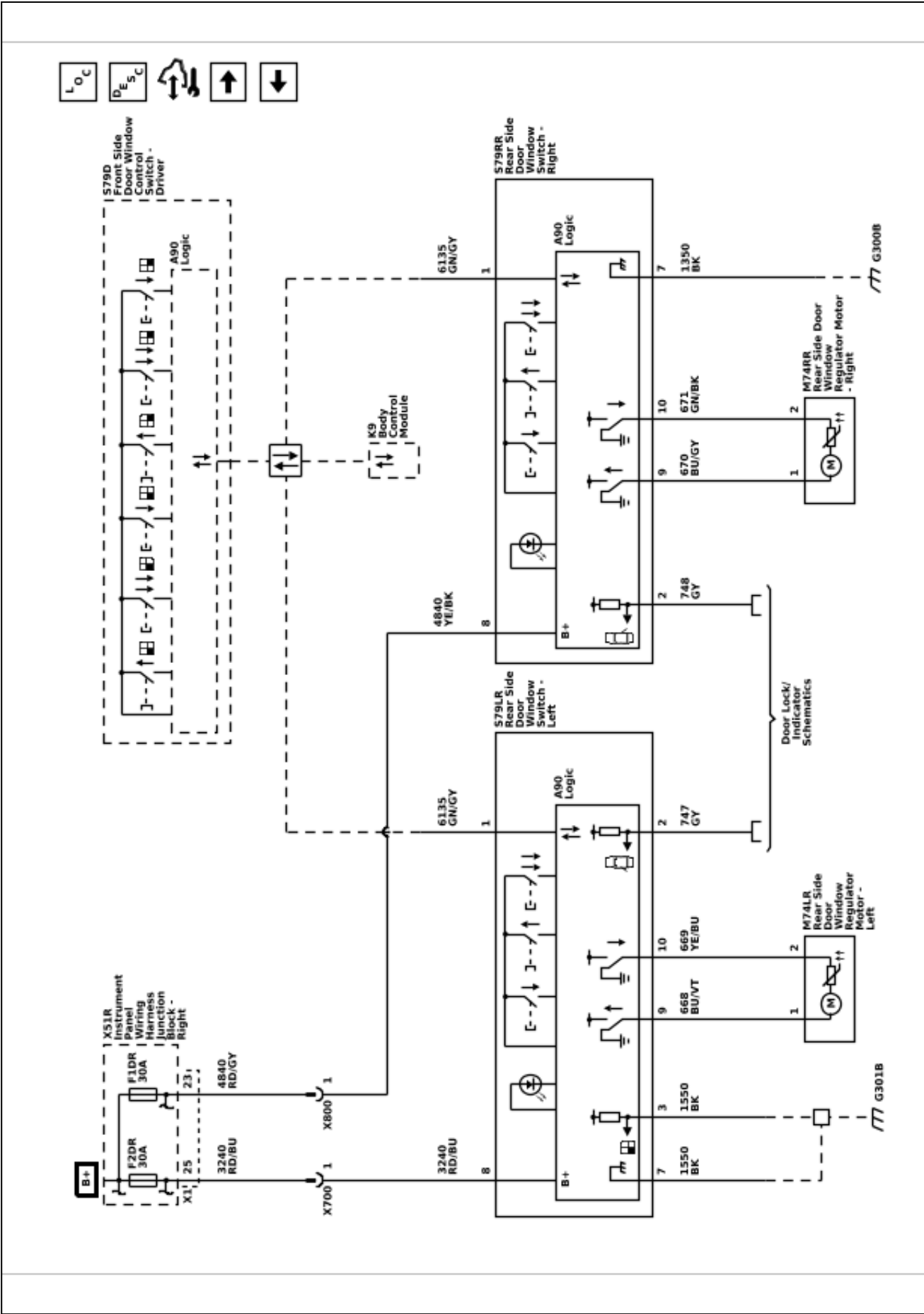
Moveable Window Schematics (Passenger Window (AEF))



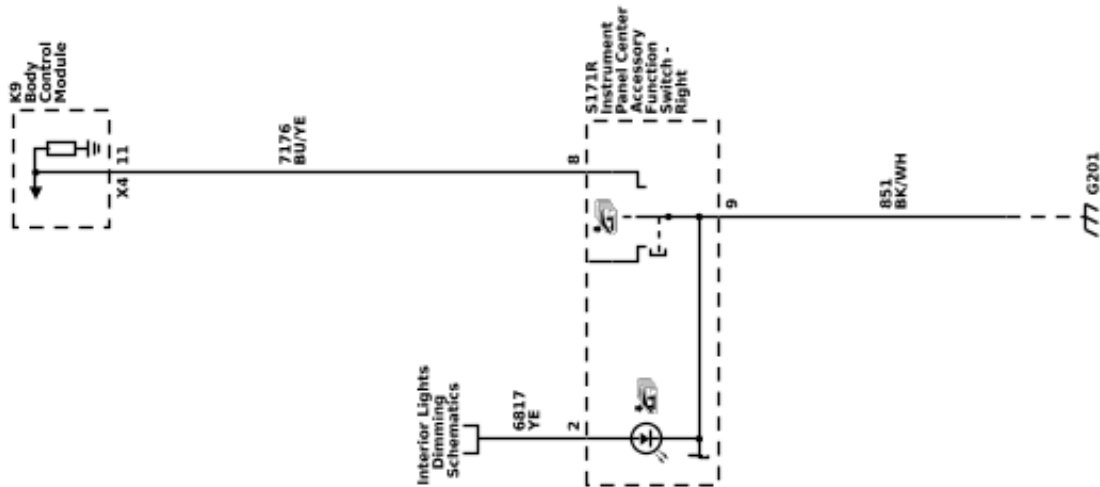
Moveable Window Schematics (Passenger Window (AED))



Moveable Window Schematics (Rear Windows (AEQ))

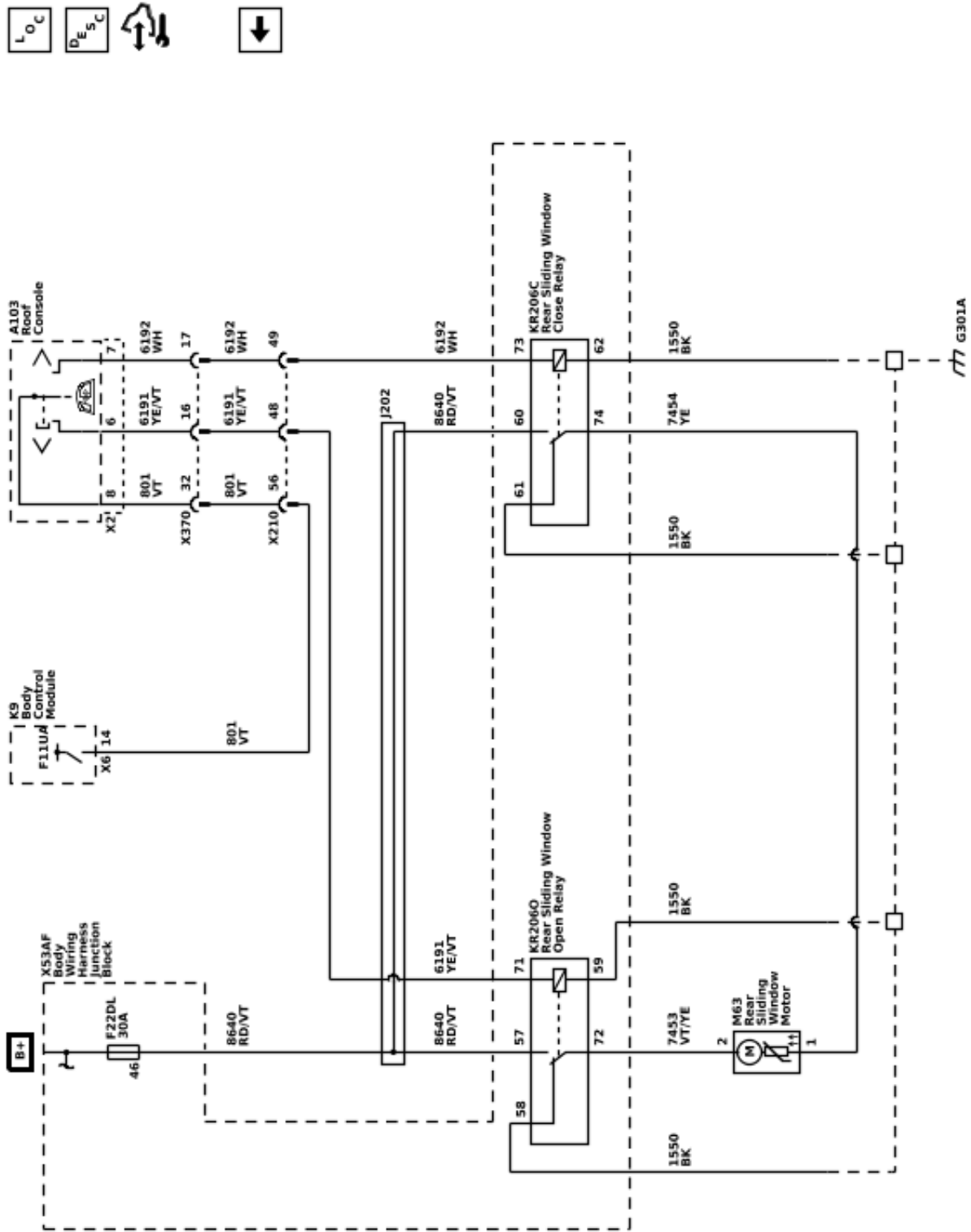


Moveable Window Schematics (Global Window Express Down Switch (WLD))

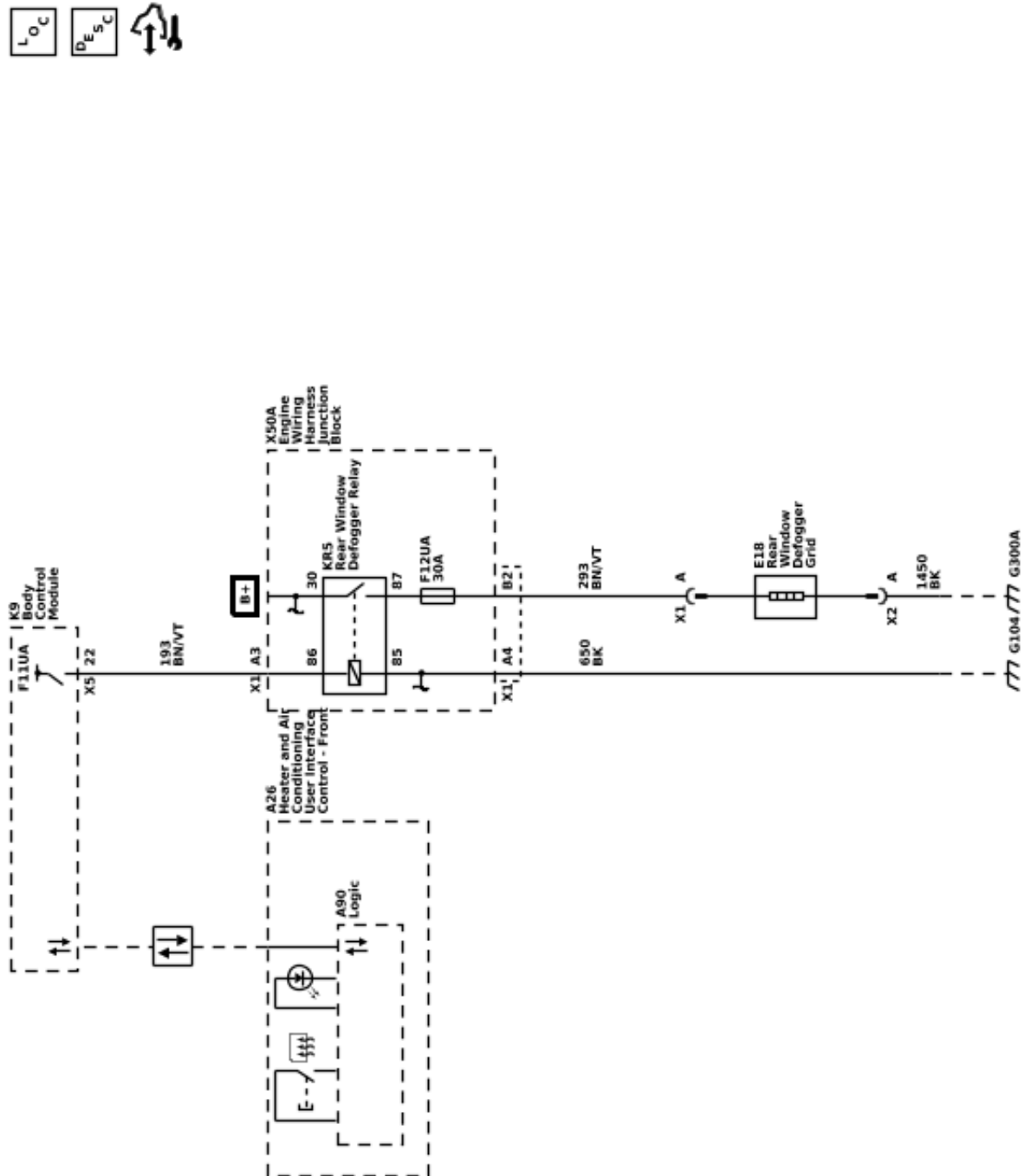


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Moveable Window Schematics (Rear Sliding Window (A48))



Defogger Schematics (Defogger)



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Description and Operation

Power Windows Description and Operation

Power Windows System Components

The power window system consists of the following components:

- Driver front side door window control switch
- Passenger front side door window control switch
- Left rear side door window switch
- Right rear side door window switch
- Window motors in each of the doors
- Body control module (BCM)

Driver and Passenger Express Up and Express Down Power Window Motors

The driver and passenger doors contain a smart window motor that will detect excessive resistance while performing the express up function and automatically reverse direction to prevent injury to any occupants that may become trapped between the closing window and the door frame. The automatic reverse safety feature can be overridden by pulling and holding the window switch.

The logic circuits within the window motor monitor the up, down and express signal circuits which are normally equal to B+ voltage. When a switch is used on the front side door window control switch, the contacts close causing a voltage drop within the appropriate signal circuit. The window motor will detect the voltage drop and will command the window to move in the direction requested.

The driver front side door window control switch communicates to the BCM by a serial data circuit. When the driver wishes to control the passenger window, the driver will use the appropriate switch on the driver front side door window control switch. When this switch is used, a serial data message is sent to the BCM requesting the passenger window motor command, the BCM will then send a serial data message to the passenger window motor which will then move in the direction requested.

Left Rear, Right Rear Express Down Window Motors

For the left rear and right rear doors, when their window switch is pressed in the down position, battery positive voltage is applied to their respective window motor control circuit and ground to the other window motor control circuit causing that window to open. When the individual window switch is pulled in the up position, voltage and ground is applied to the window motor in the opposite direction causing that window to close. The return path to ground is supplied through the inactive control circuit being normally grounded through the window switch.

Each rear side door window switch communicates to the BCM by a serial data circuit. When the driver wishes to control the left rear or right rear window, the driver will use the appropriate switch on the driver front side door window control switch. When this switch is used, a serial data message is sent to the BCM requesting a window motor command, the BCM will then send a serial data message to the appropriate rear side door window switch which will then command that window to move in the direction requested.

Lockout Switch Feature

The driver front side door window control switch contains a window lockout switch, when the driver presses the window lockout switch, a serial data message is sent to the BCM which will send a disable command to the rear side door window switches, deactivating them. The rear windows will still function normally from the switches on the driver front side door window control switch.

Rear Window Defogger Description and Operation

Rear Window Defogger System Components

The rear window defogger system consists of the following components:

- Body Control Module
- Front Heater and Air Conditioning User Interface Control
- Rear Body Wiring Harness Junction Block (Contains PCB Rear Defogger Relay)
- Rear Defogger Grid
- 40A Fuse

Rear Window Defogger Operation

The rear defog control system utilizes a single zone backlight design, driven with a single relay configuration. A switch for the customer to control the system is provided within the front heater and air conditioning user interface control. Also included in the front heater and air conditioning user interface control is an indicator to inform the customer with the current state of the system. The system is only operational when engine is running or during remote start.

Pressing the heated rear window switch causes the front heater and air conditioning user interface control to send a serial data message to the body control module requesting rear window defog operation. The body control module upon receipt of the serial data message will provide voltage to the coil side of the rear defogger relay, this will energize the relay causing the relay switch contacts to close allowing B+ voltage to flow through the rear defogger grid control circuit to the rear defogger grid.

When the rear heated rear window switch is pressed and the engine is running, the rear window defogger grid will activate and will turn off automatically depending upon the vehicle speed (refer to owner's manual for rear window defogger operation cycles)

Stationary Window Description

Most stationary windows, specifically windshields, are retained to the body with urethane adhesive which adheres the window to the body, increasing structural integrity. The reinstallation of the windows with urethane adhesive requires complete replacement of the urethane adhesive bead, and is known as the full cut method.

Urethane Adhesive Description

For replacement of any adhesive-installed window, use the full cut method only.

Use an adhesive that is approved by GM, Specification GMW-15672.

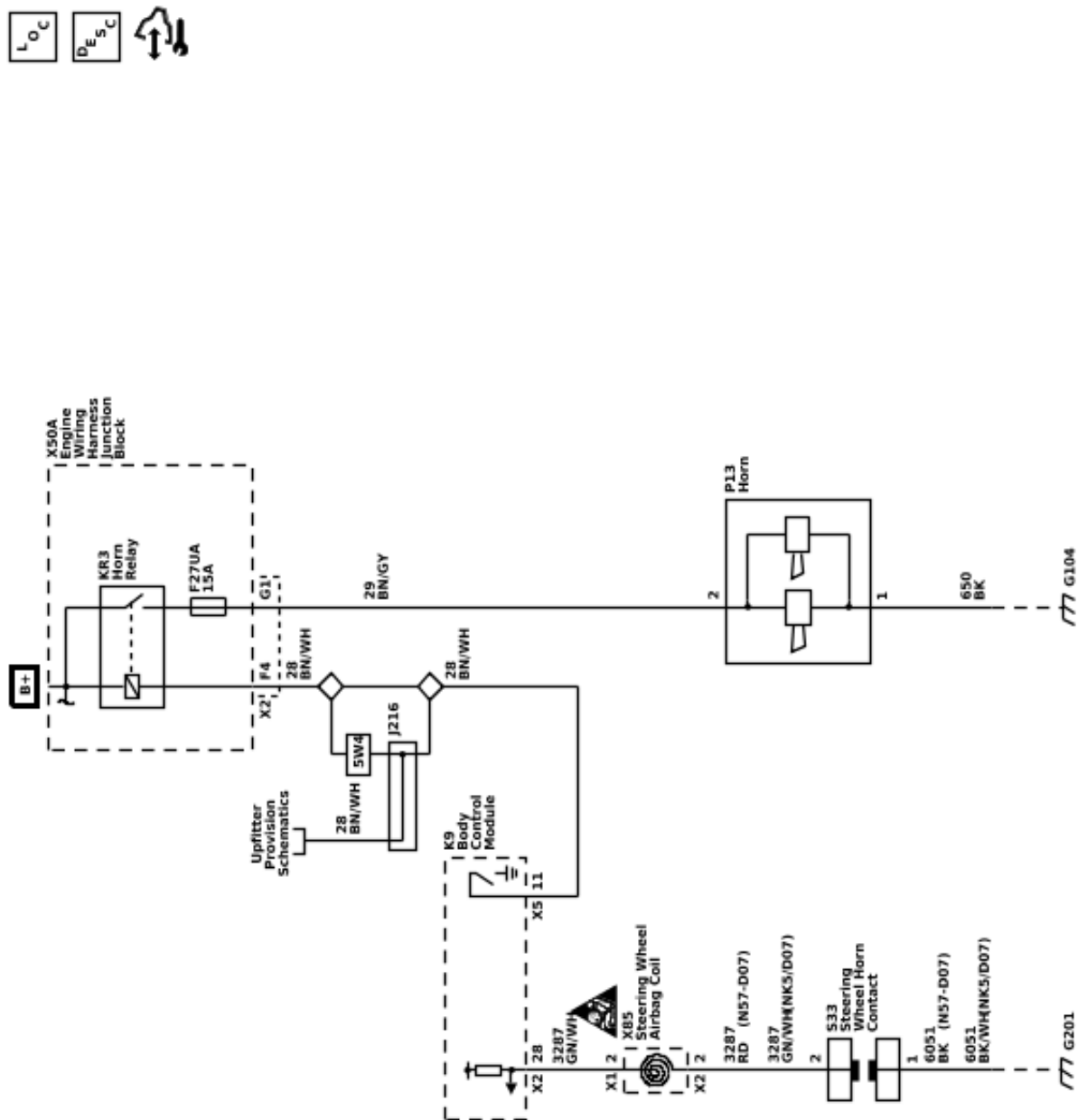
Use these materials based on specific manufacturer. Do NOT intermix primers or adhesives from one manufacturer to another.

Always follow the system manufacturers instructions for application, handling, and curing.

Horns and Pedestrian Alerts

Schematic and Routing Diagrams

Horn Schematics (Horn)



Description and Operation

Horns System Description and Operation

System Description

The horn system consists of the following components:

- HORN fuse
- Engine wiring harness junction block (contains horn PCB relay)
- Steering wheel horn contact
- Steering wheel airbag coil
- Horn
- Body control module (BCM)

System Operation

The vehicle horn system is activated under the following conditions:

- When the horn switch is depressed
- The BCM commands the horns ON under any of the following conditions:
 - When the content theft deterrent system detects a vehicle intrusion.
 - When the panic button is depressed on the remote control door lock transmitter—For further information refer to *Keyless Entry System Description and Operation 7-17*.
 - When the keyless entry system is used to lock the vehicle, a horn chirp may sound to notify the driver that the vehicle has been locked. The notification feature may be enabled or disabled through personalization. For further information refer to *Keyless Entry System Description and Operation 7-17*.
 - When the OnStar® system is used to sound the horns if equipped—For further information, refer to **OnStar Description and Operation**.

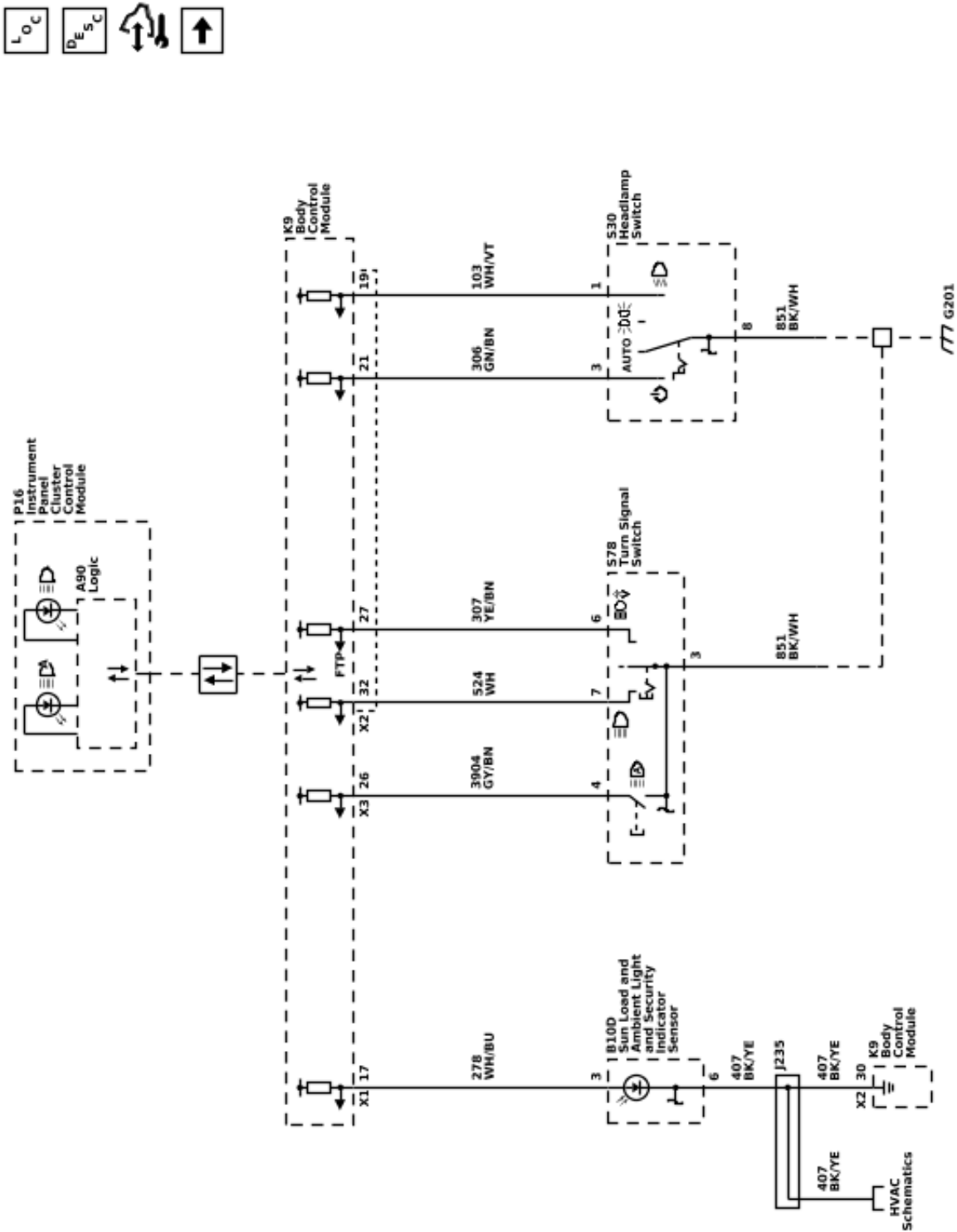
Circuit Operation

Battery positive voltage is applied at all times to the horn relay coil and the horn relay switch. Pressing either of the horn switches applies ground to the horn relay control circuit. The BCM may also apply ground to the horn relay control circuit as described above. When the horn relay control circuit is grounded, the horn relay is energized and battery positive voltage is applied to the horns through the horn control circuit. The horns sound as long as ground is applied to the horn relay control circuit.

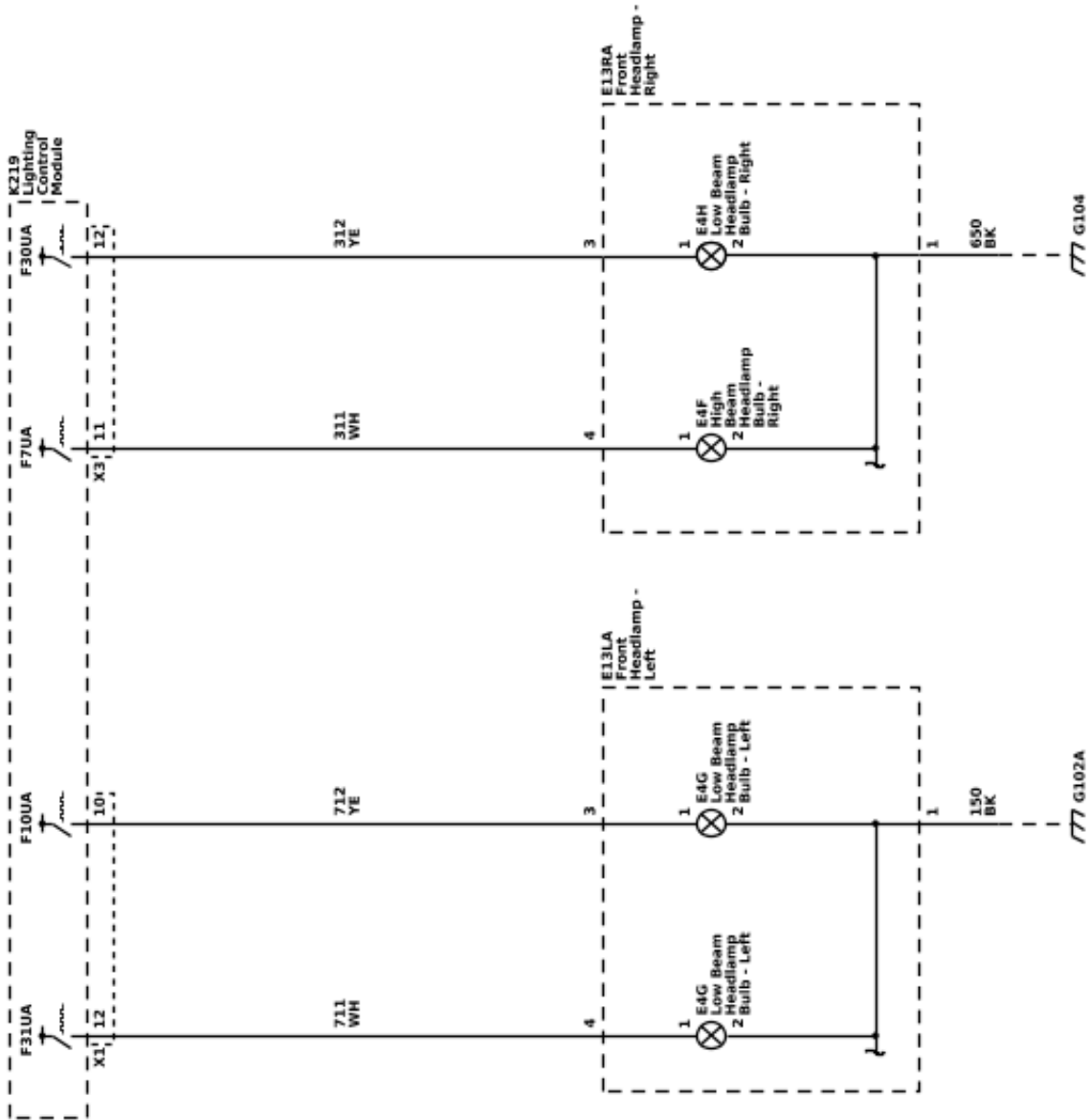
Lighting

Schematic and Routing Diagrams

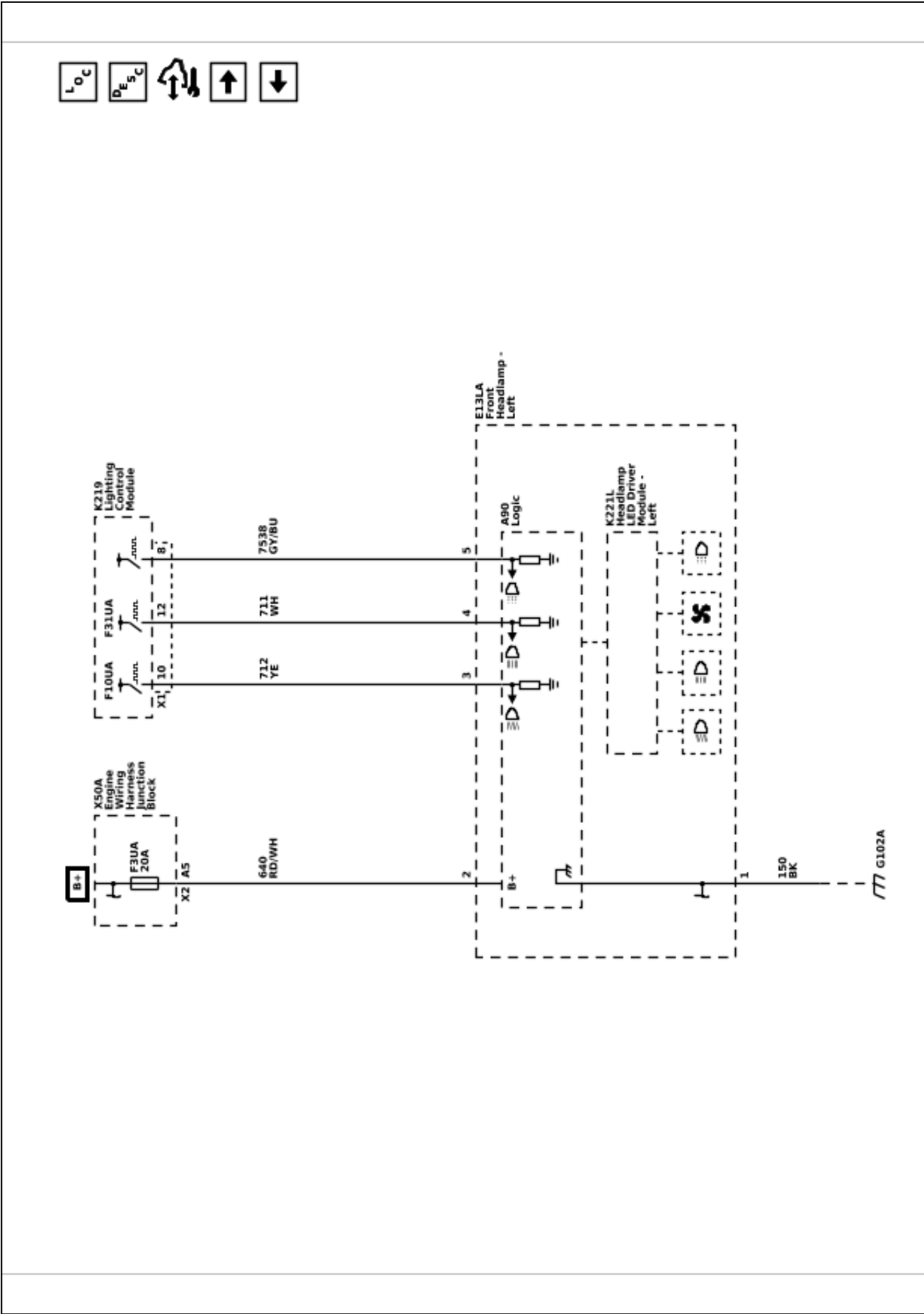
Headlights/Daytime Running Lights (DRL) Schematics (Controls and Indicators)



Headlights/Daytime Running Lights (DRL) Schematics (Headlamps (GF2 / GF5 / GPZ))

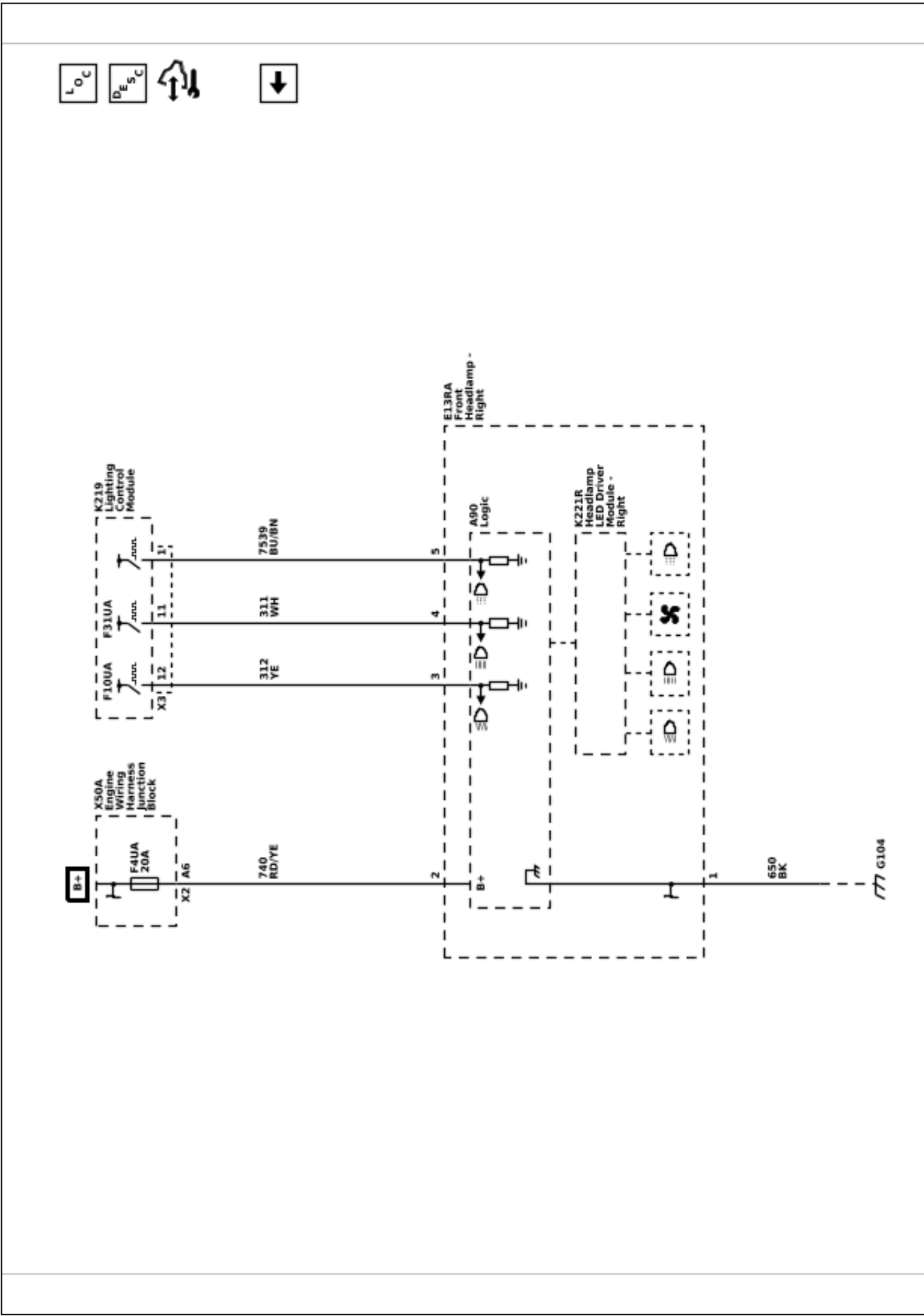


Headlights/Daytime Running Lights (DRL) Schematics (Headlamps and Daytime Running Lamps - Left (GF3 / GF4 / GF9 / GFC / GFD / GG0 / GRZ))



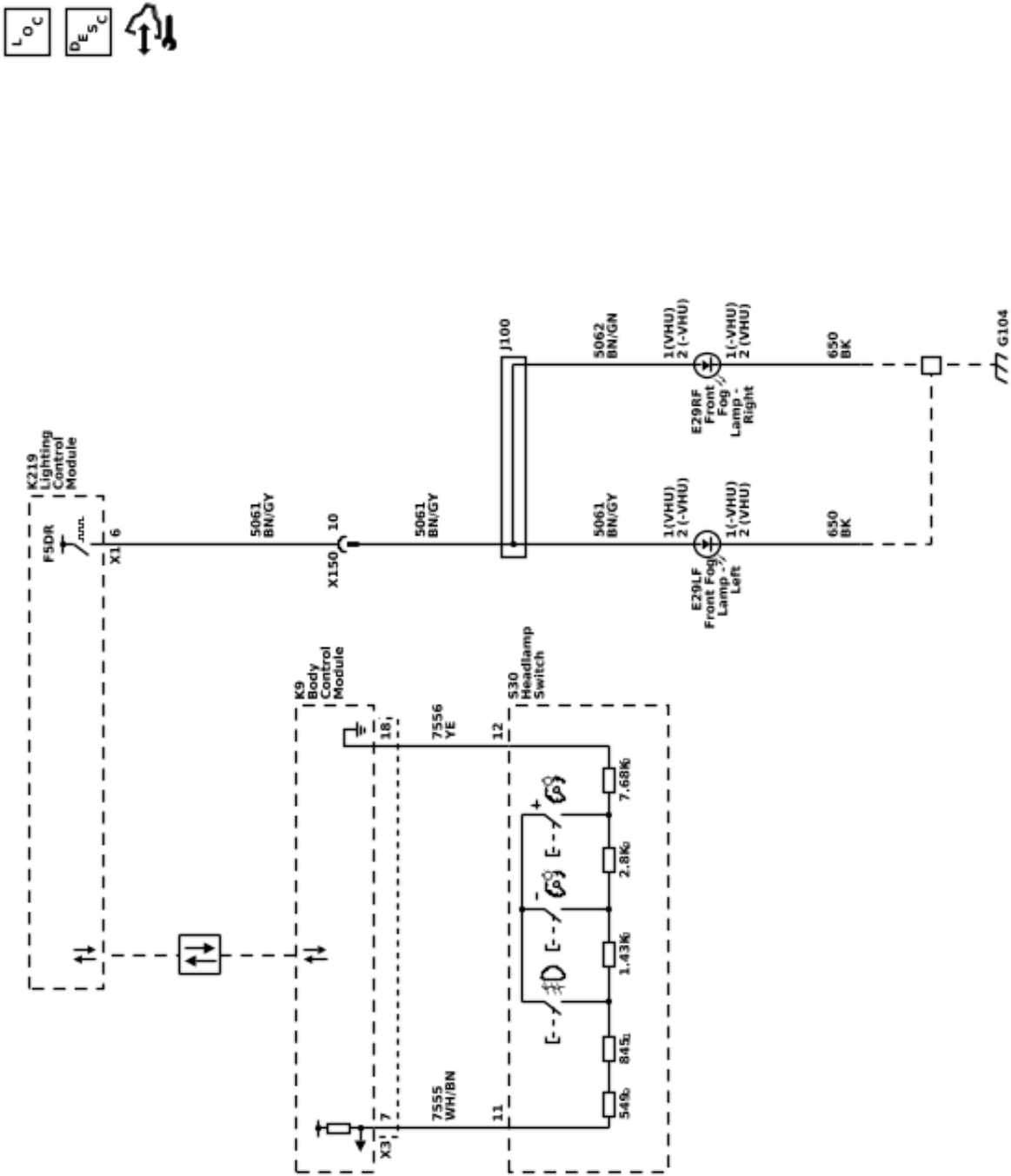
6548145

Headlights/Daytime Running Lights (DRL) Schematics (Headlamps and Daytime Running Lamps - Right (GF3 / GF4 / GF9 / GFC / GFD / GG0 / GRZ))

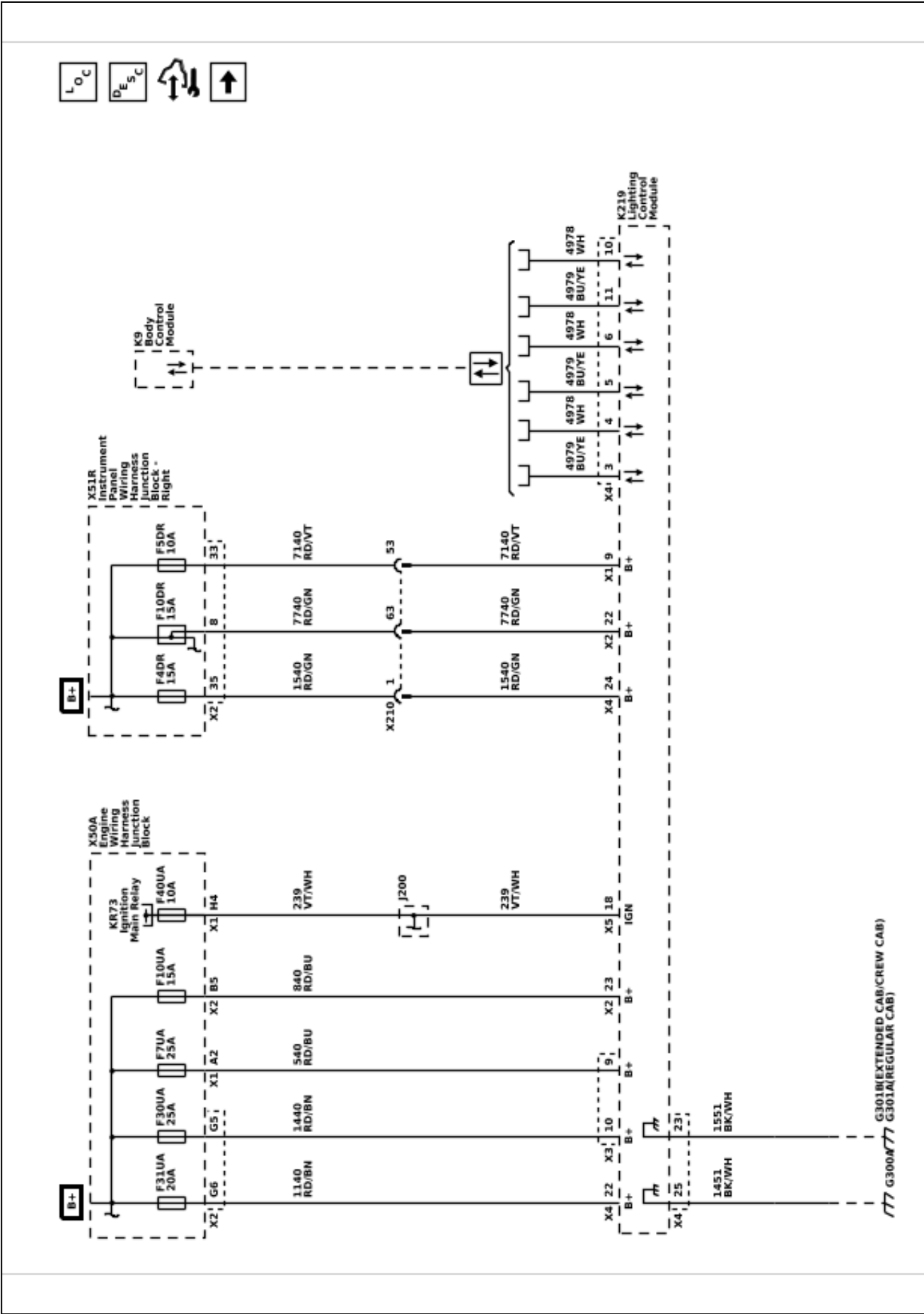


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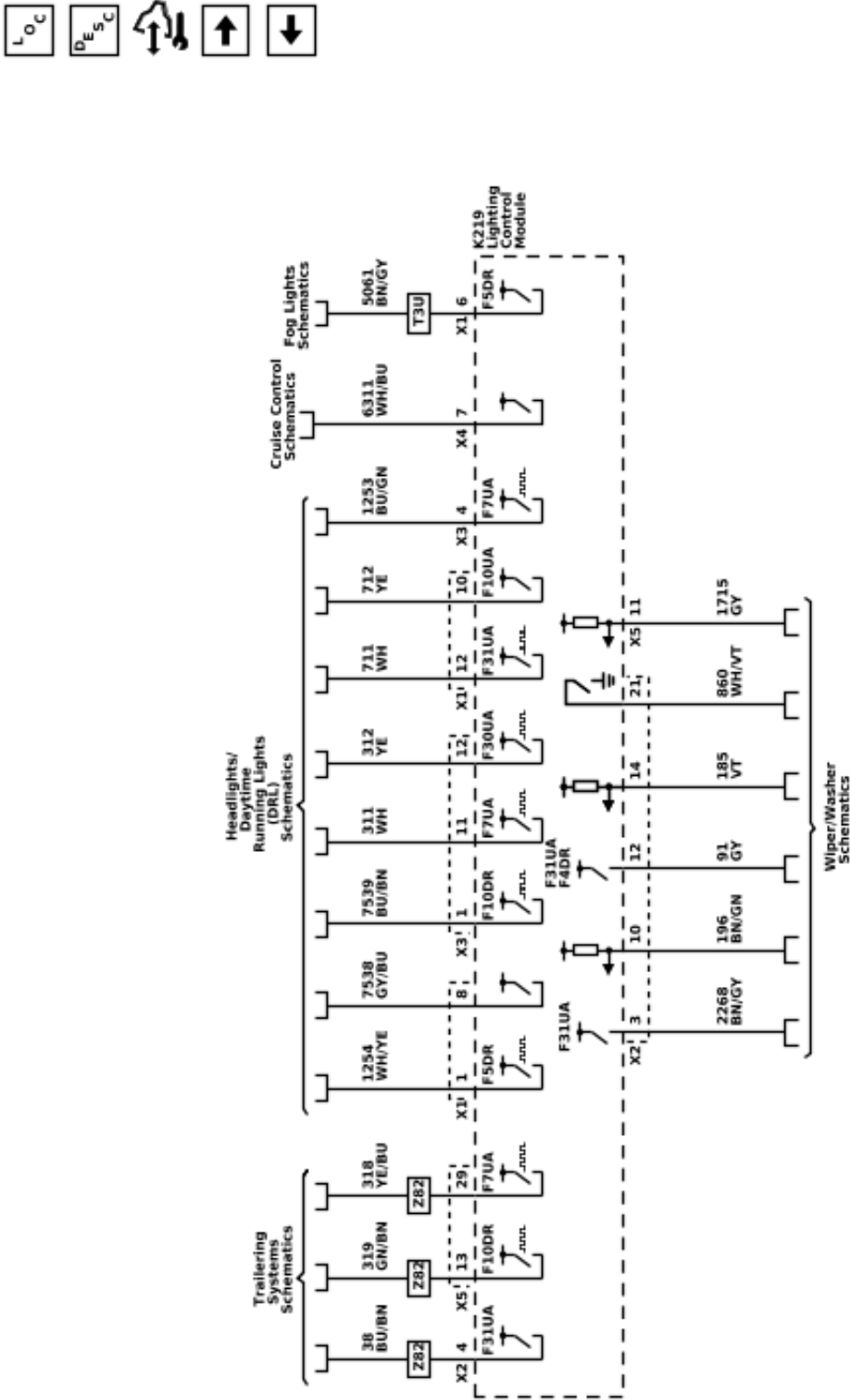
Fog Lights Schematics (Fog Lamps (T3U))



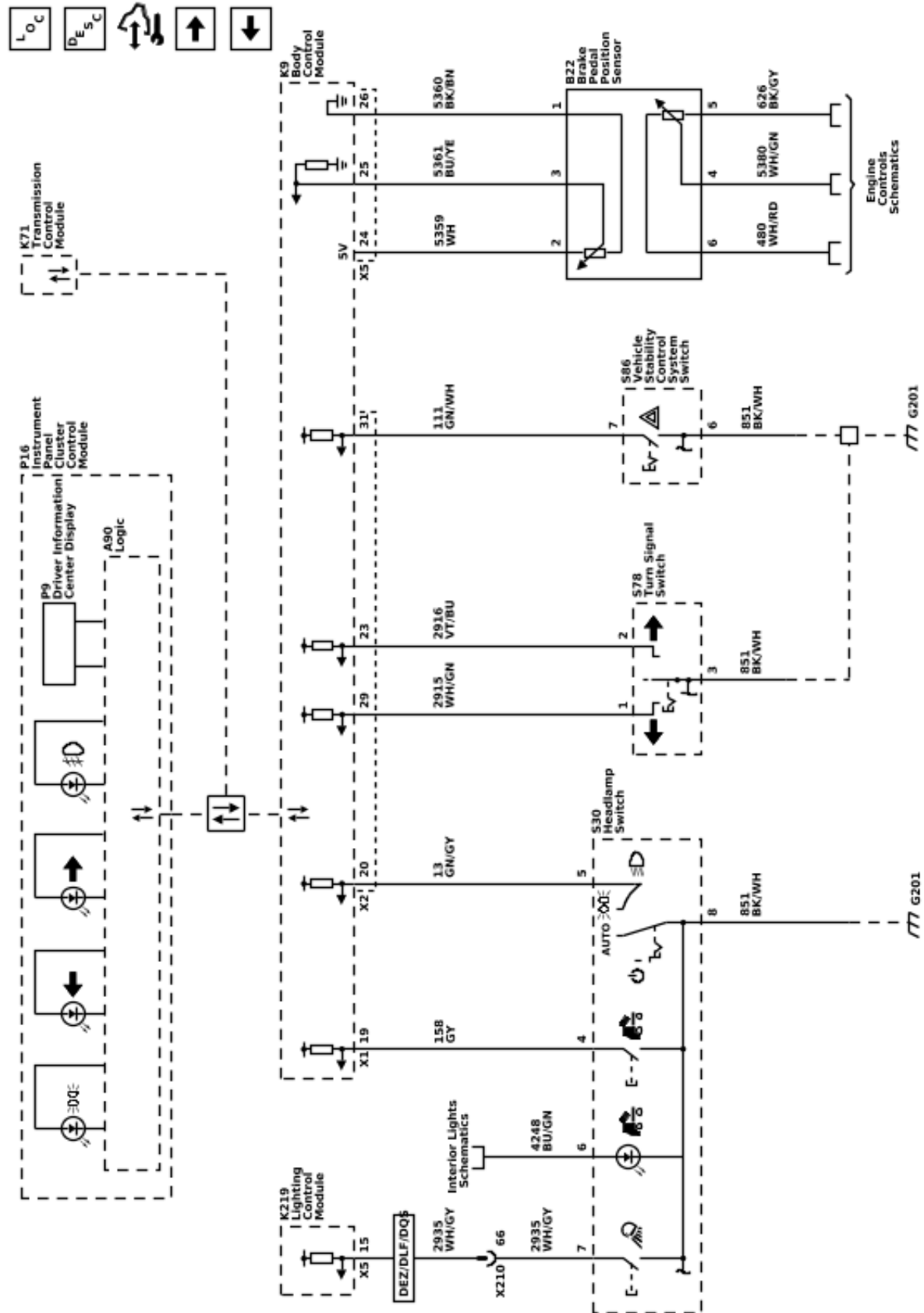
Exterior Lights Schematics (Lighting Control Module Power, Ground, and Serial Data)



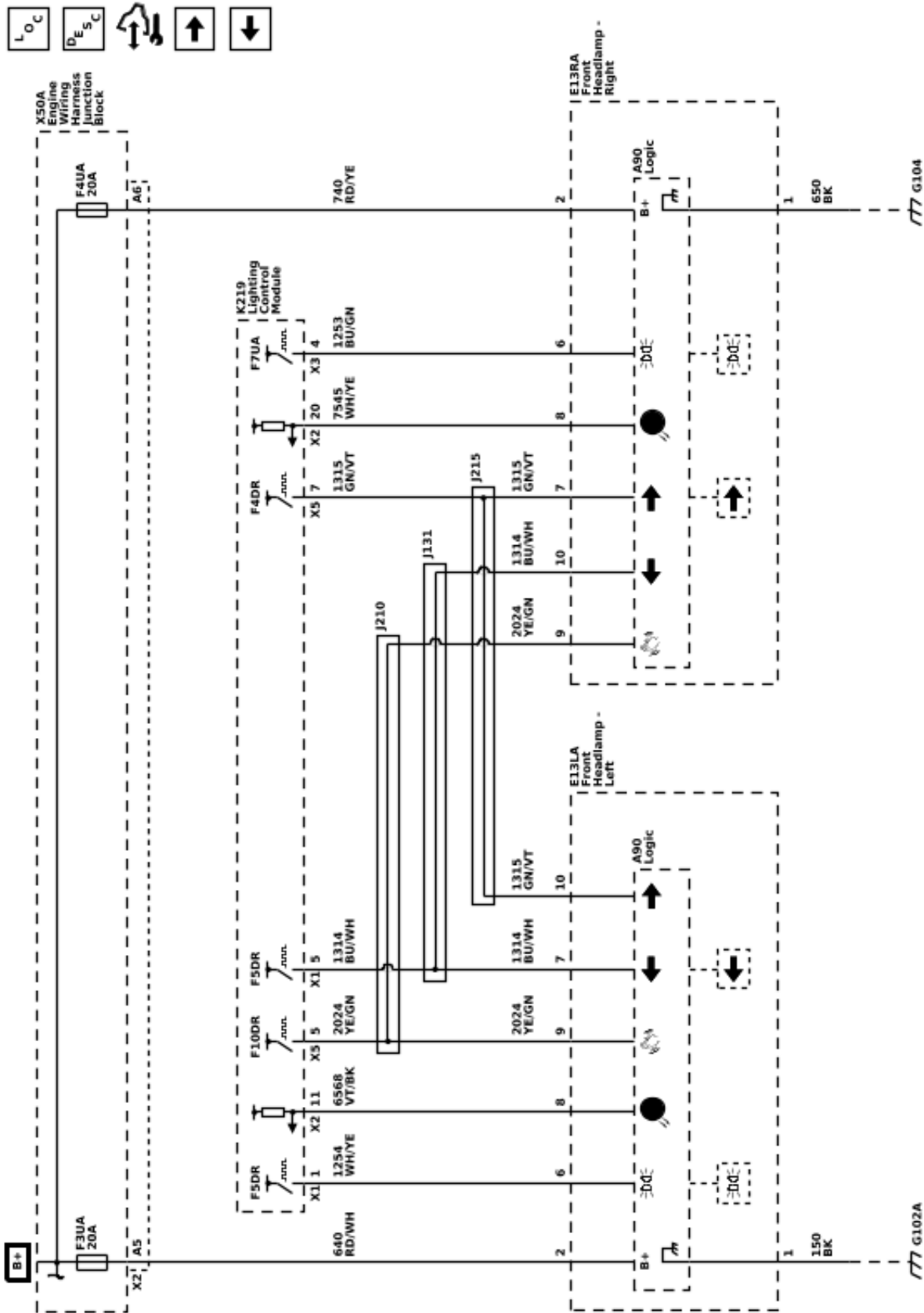
Exterior Lights Schematics (Lighting Control Module Subsystem References)



Exterior Lights Schematics (Controls and Indicators)

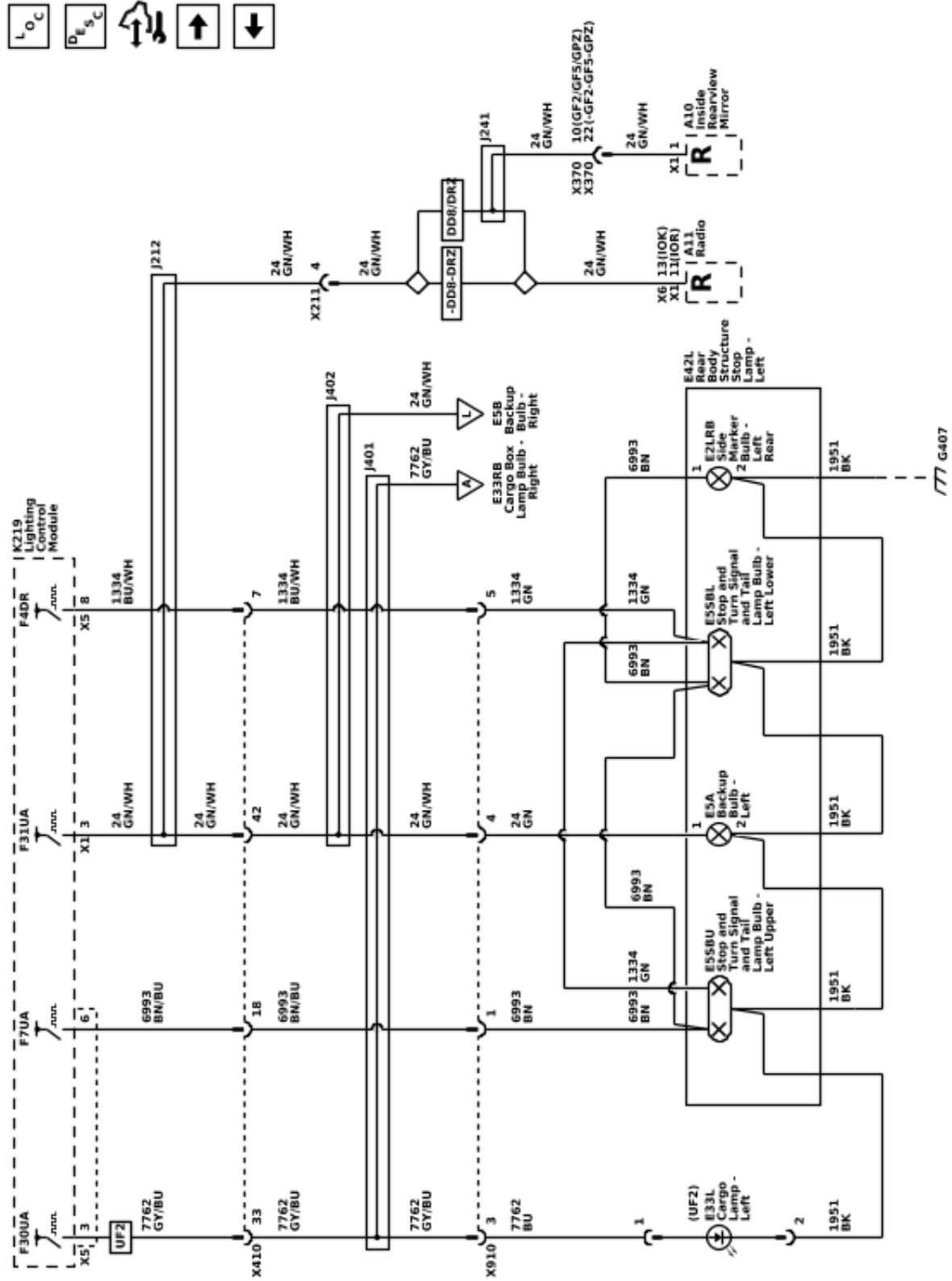


Exterior Lights Schematics (Front Lights)

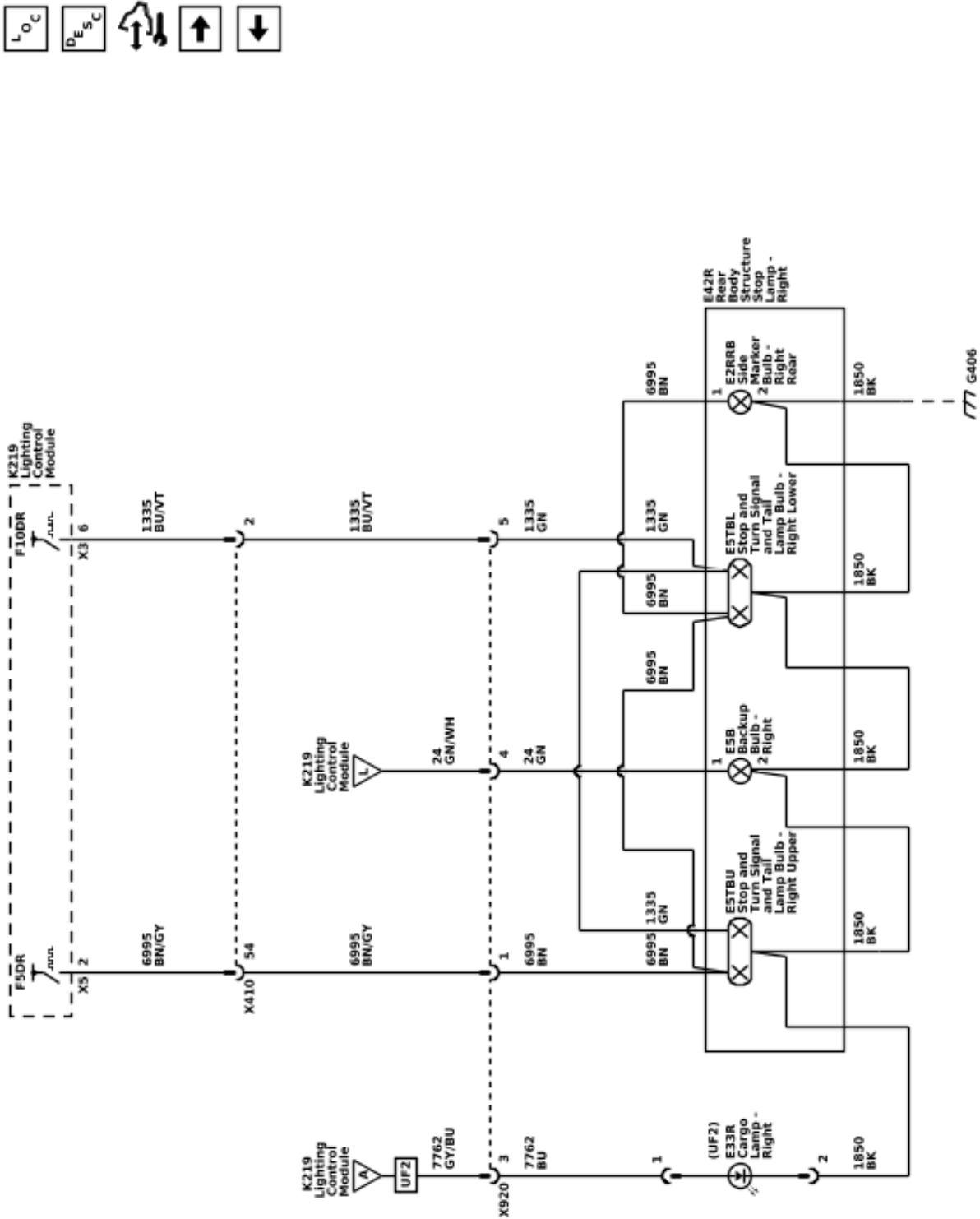


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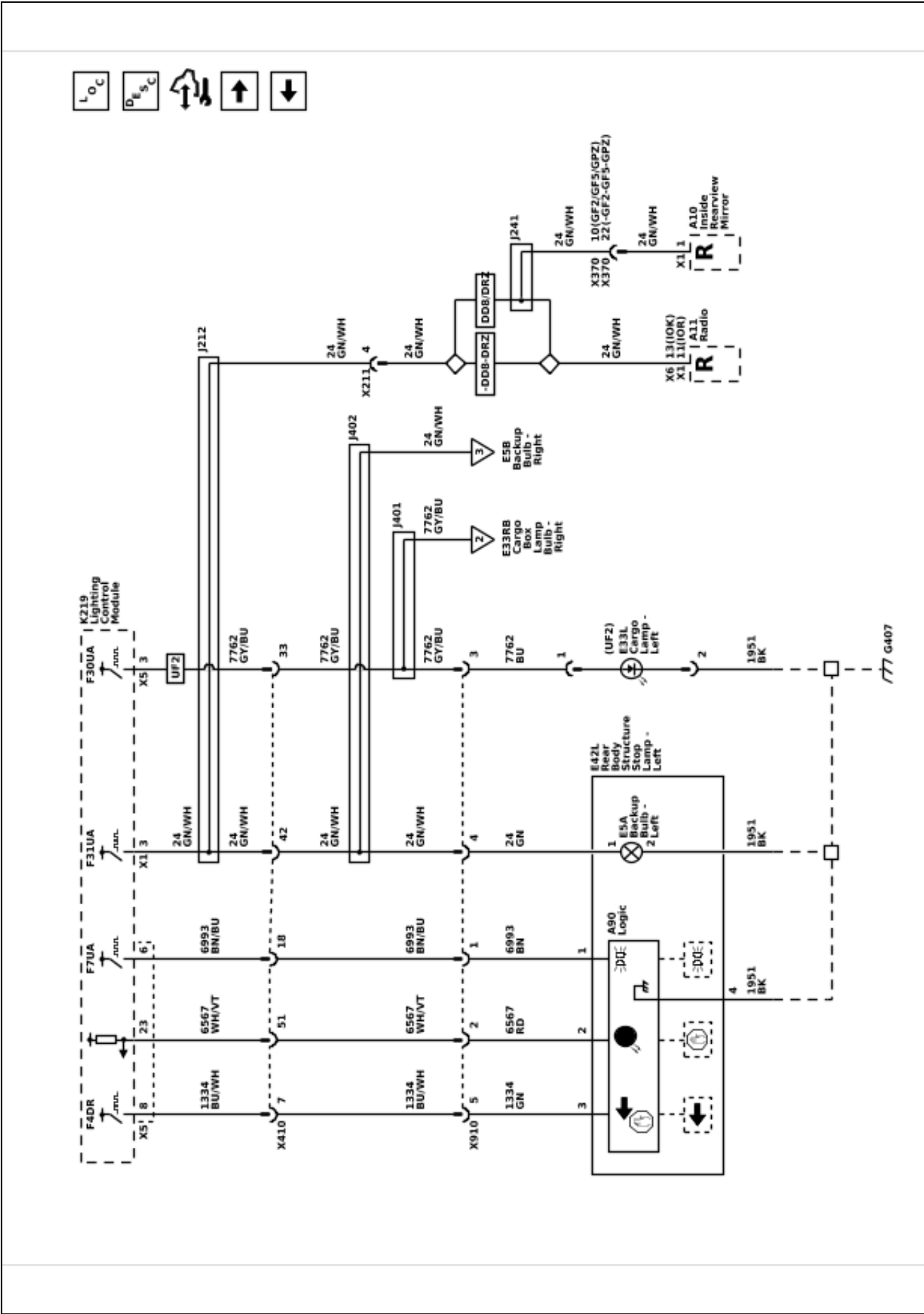
Exterior Lights Schematics (Left Rear Body Structure Stop Lamp, Left Cargo Box Lamp, and Backup Signal (GF2 / GF3 / GF5 / GG0 / GPZ))

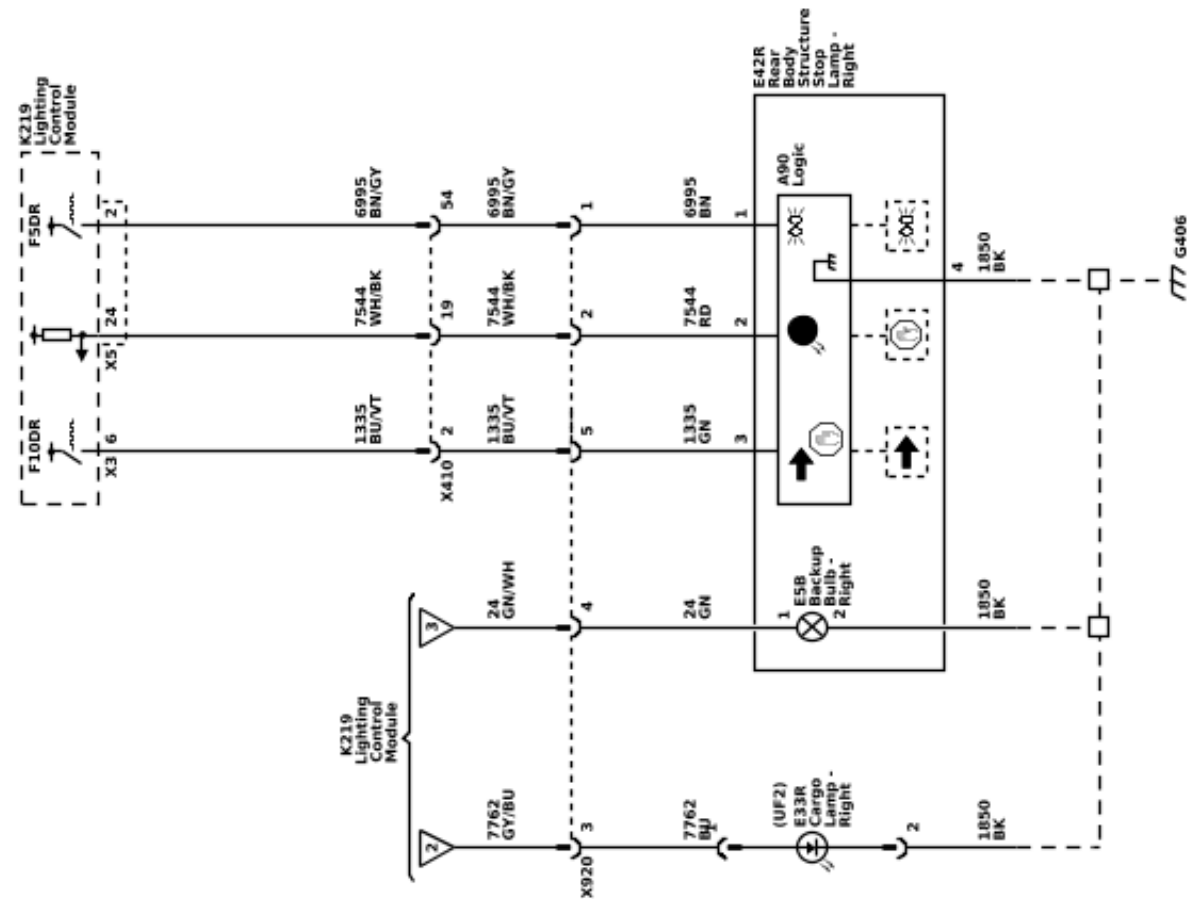


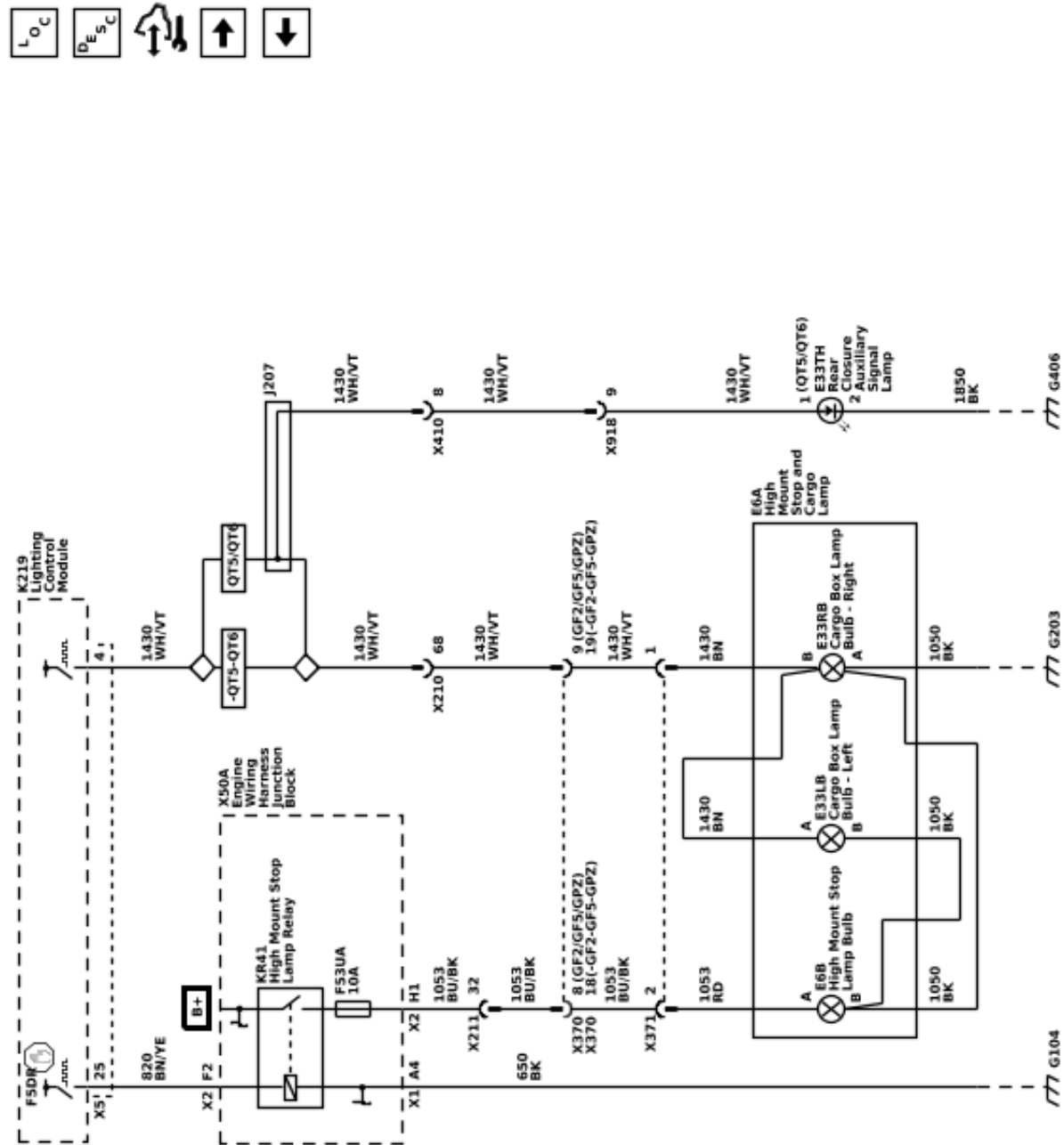
Exterior Lights Schematics (Right Rear Body Structure Stop Lamp (GF2 / GF3 / GF5 / GG0 / GPZ))



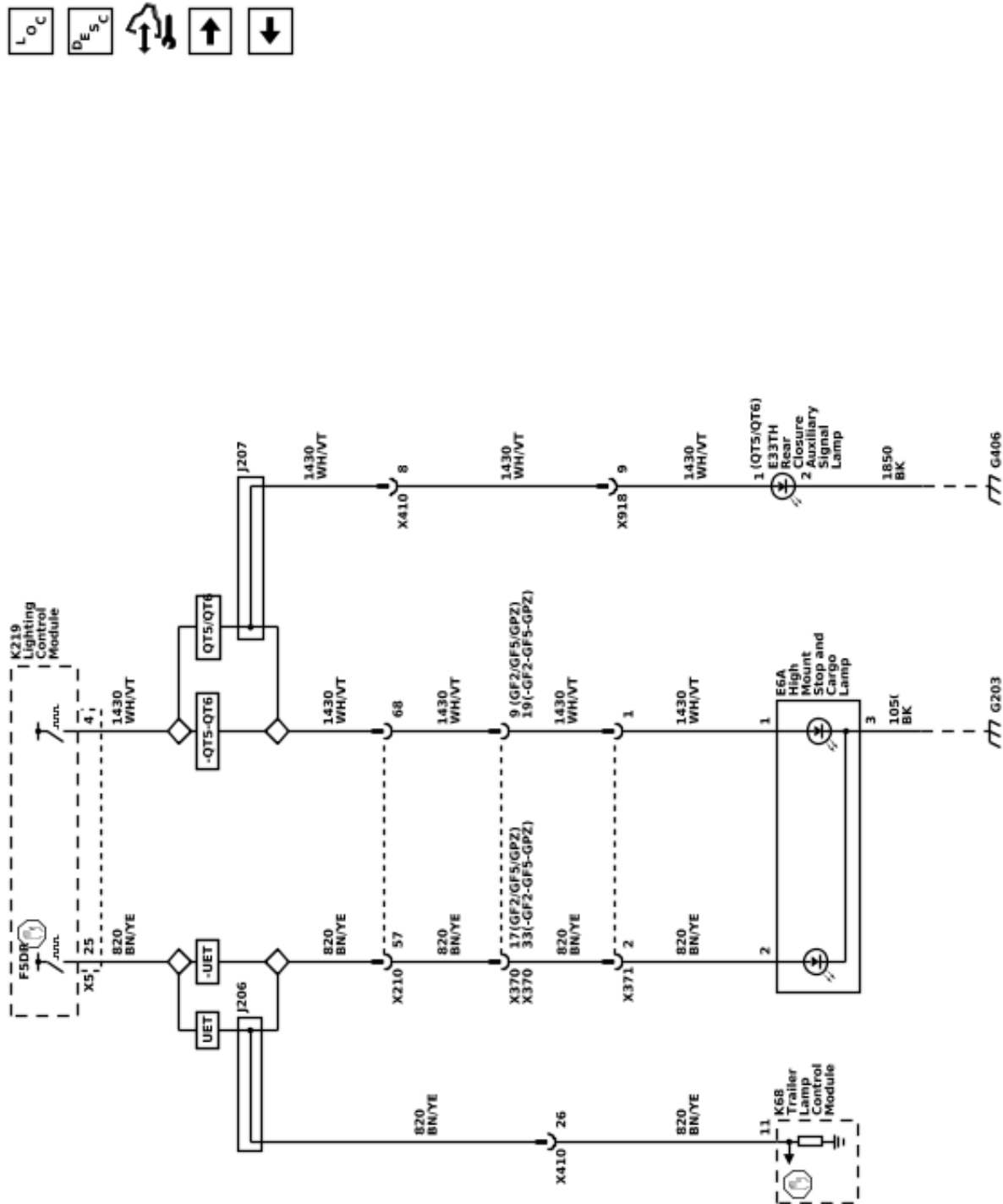
Exterior Lights Schematics (Left Rear Body Structure Stop Lamp, Left Cargo Box Lamp, and Backup Signal (GF4 / GF9 / GFC / GFD / GFD / GRZ))



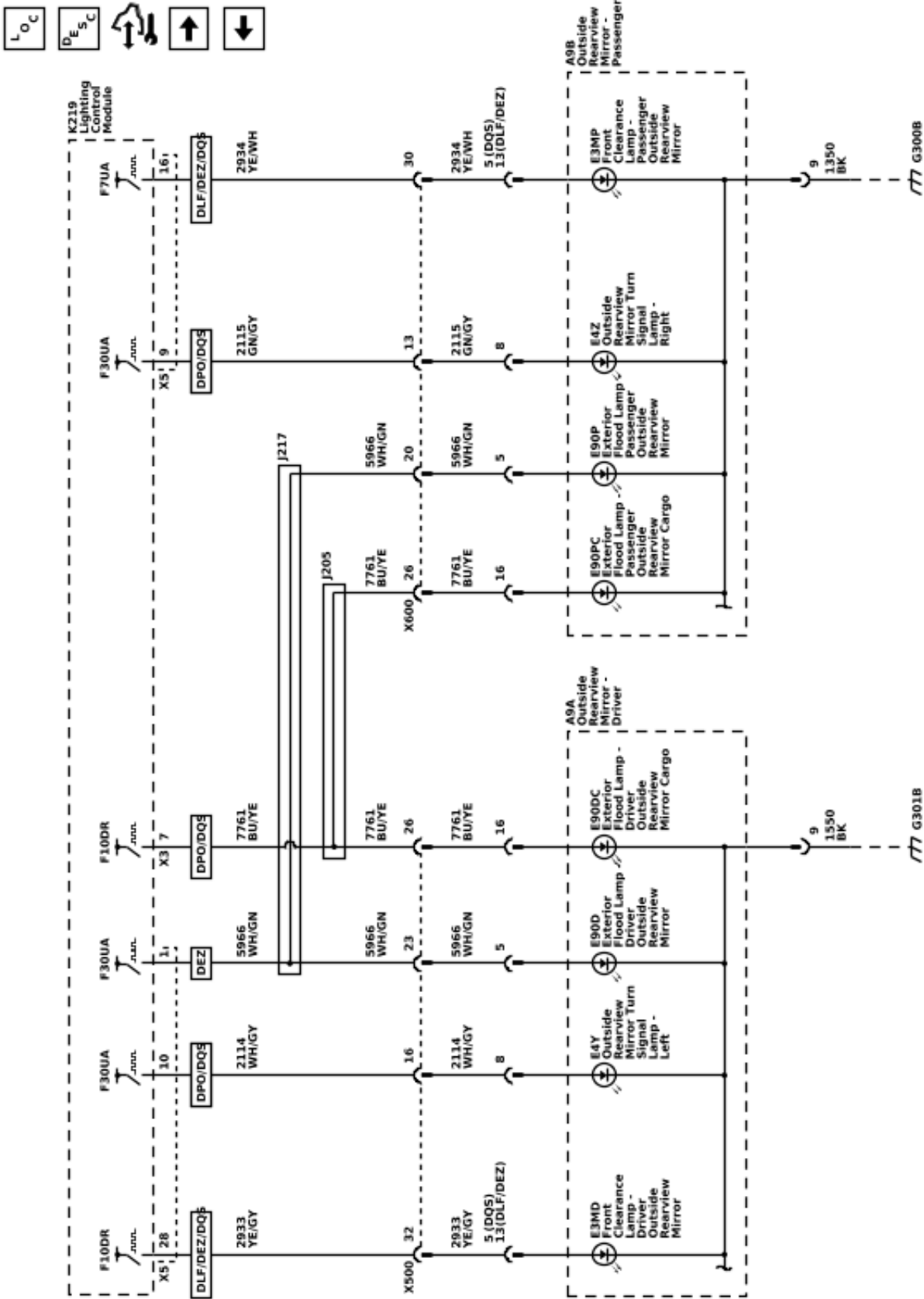




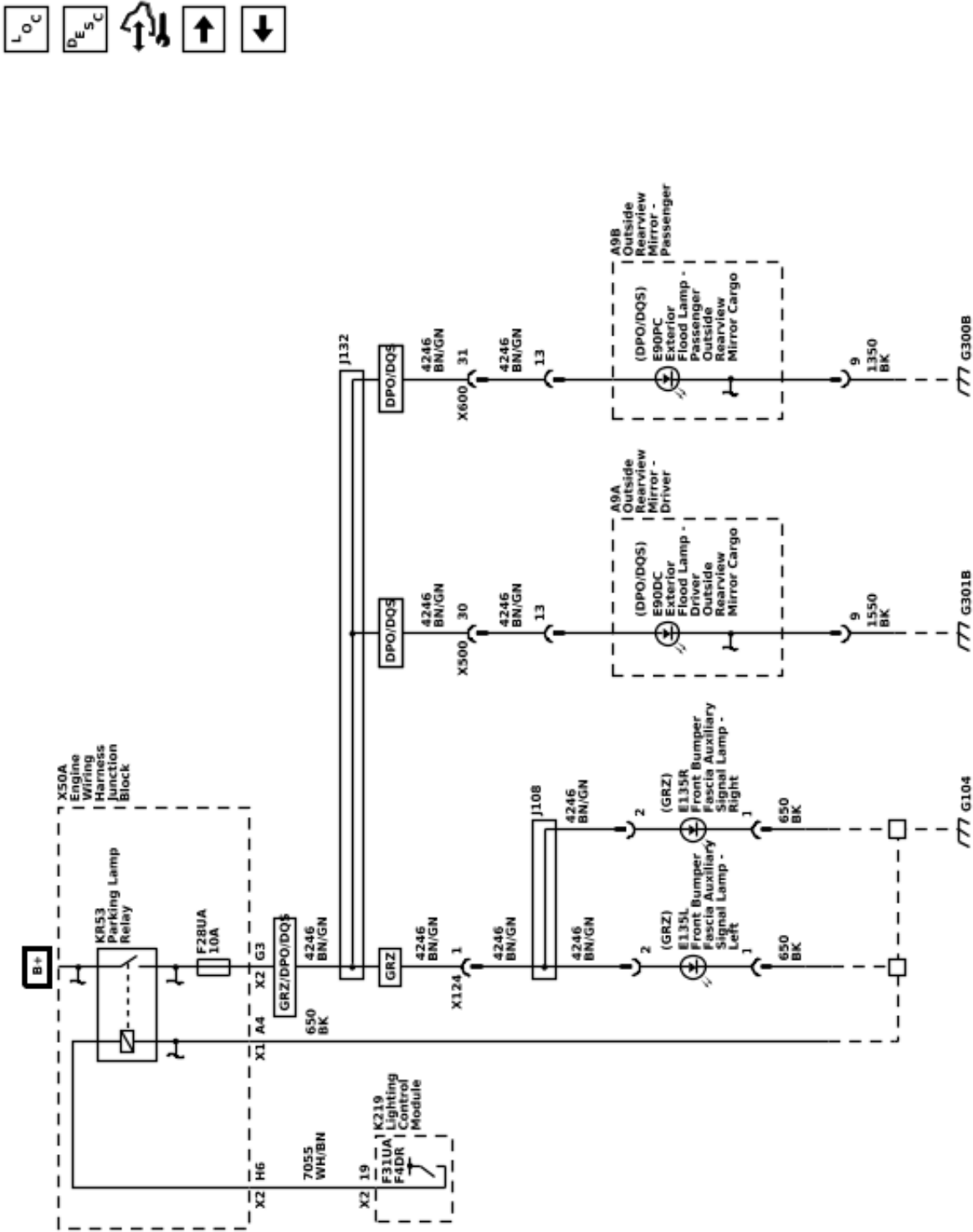
Exterior Lights Schematics (Center High Mount Stop and Exterior Courtesy Lights - Extended Cab/Crew Cab)



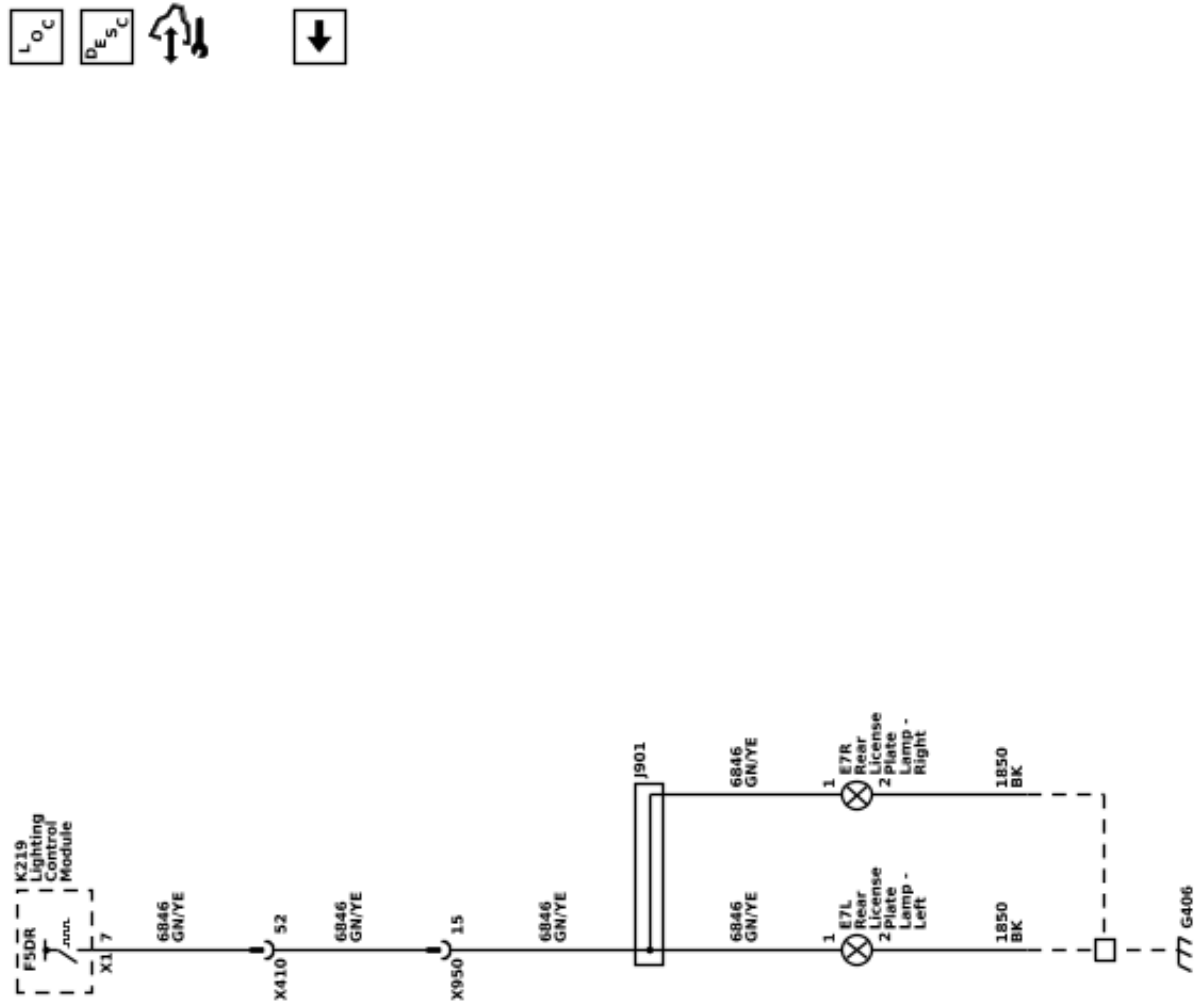
Exterior Lights Schematics (Outside Rearview Mirror Task, Turn, Approach, and Flood Lights (DEZ / DLF / DPO / DQS))



Exterior Lights Schematics (Identification Lights (DPO / DQS / GRZ))

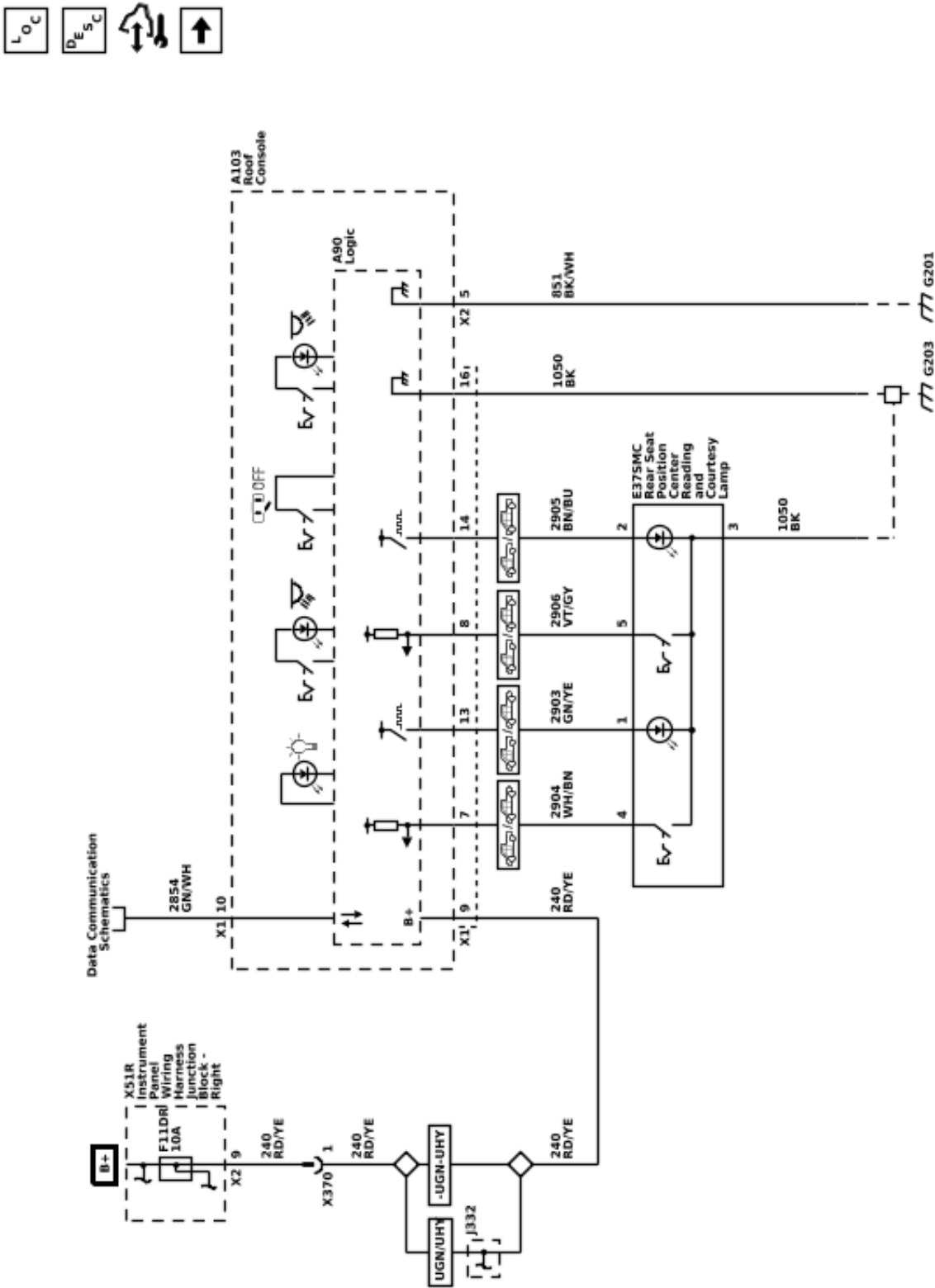


Exterior Lights Schematics (License Plate Lamps)

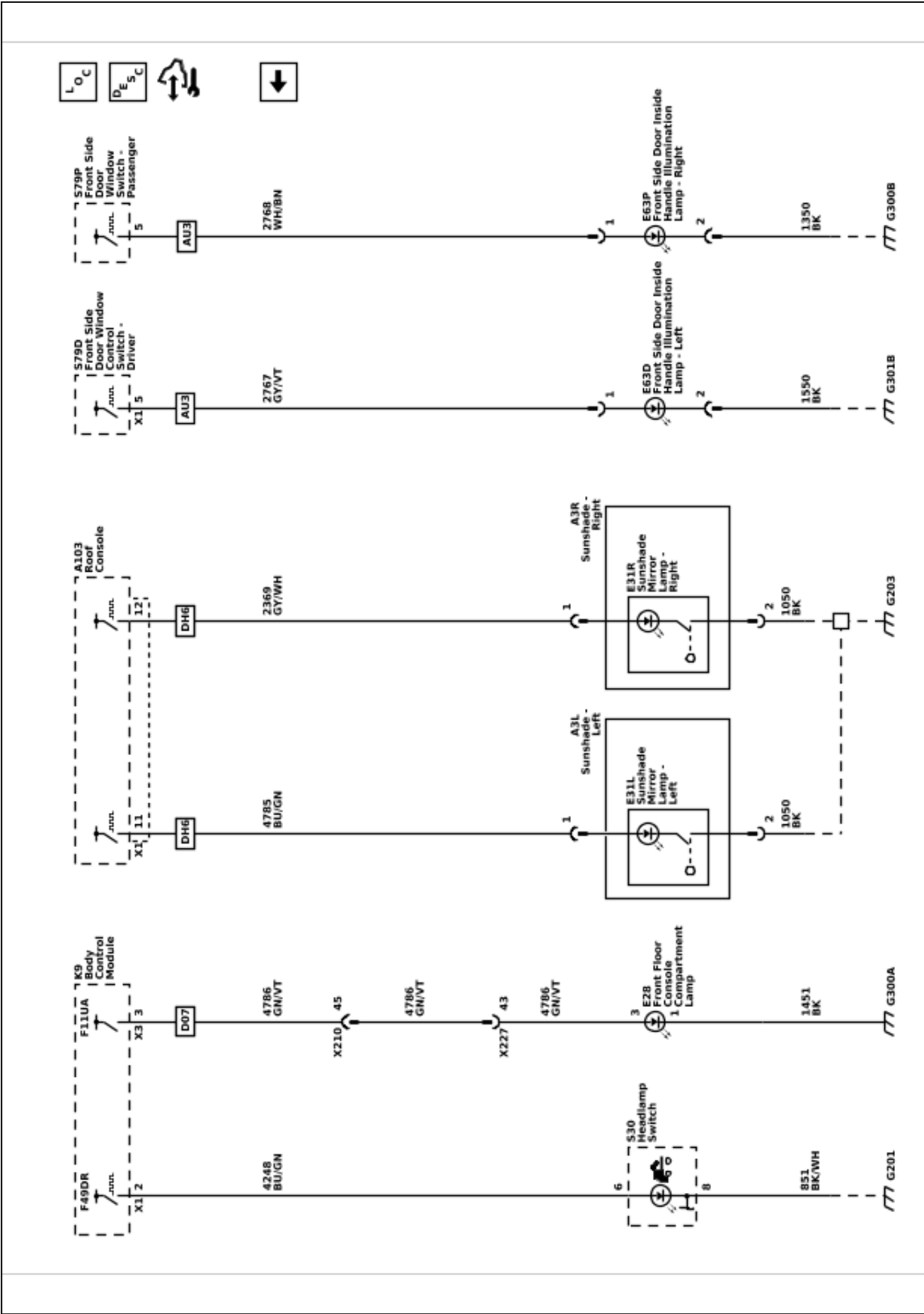


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Interior Lights Schematics (Roof Console and Rear Seat Reading and Courtesy Lamps - Extended Cab/Crew Cab)

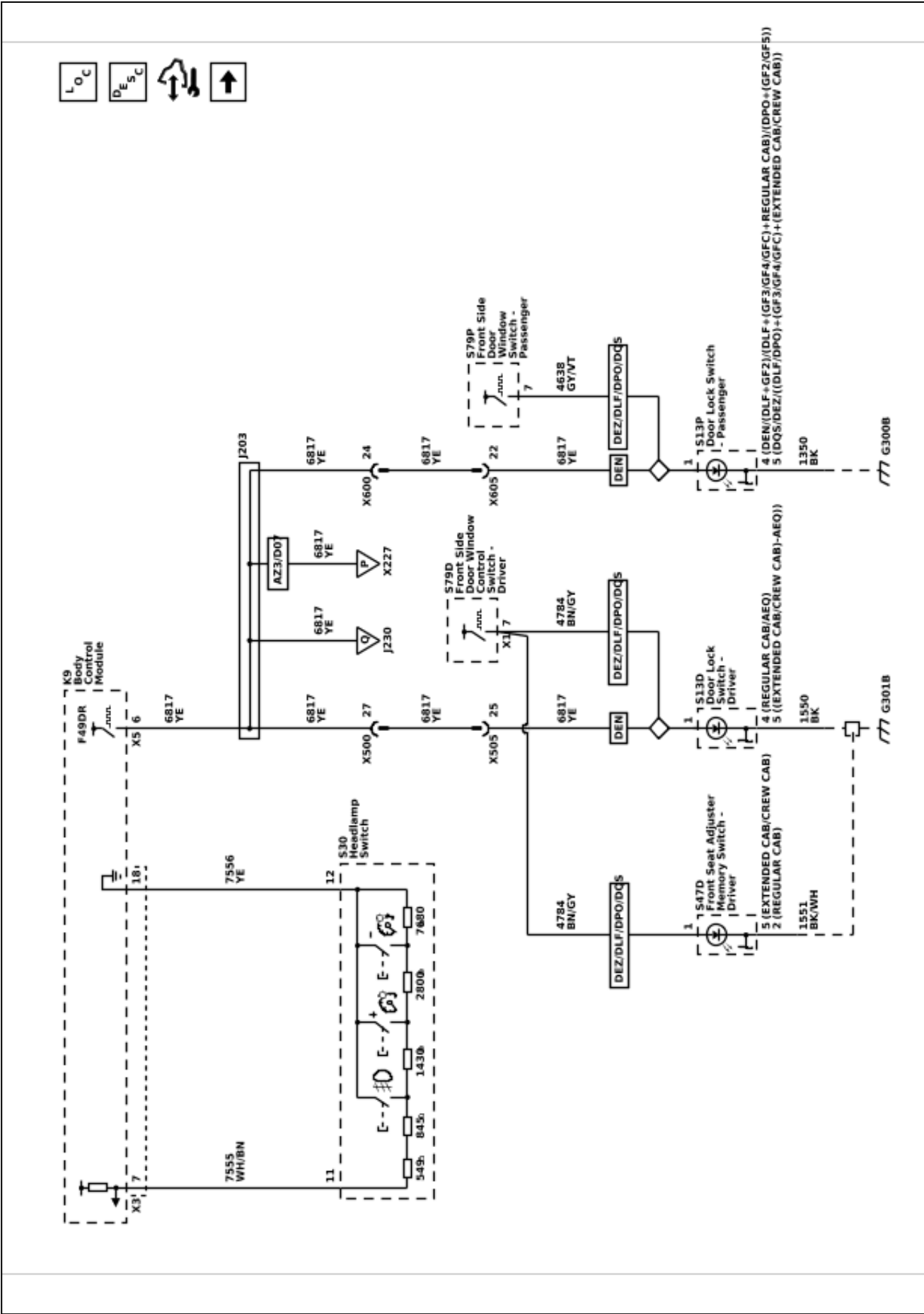


Interior Lights Schematics (Cargo Lamp Indicator, Sunshade, Center Console, and Door Lamps)



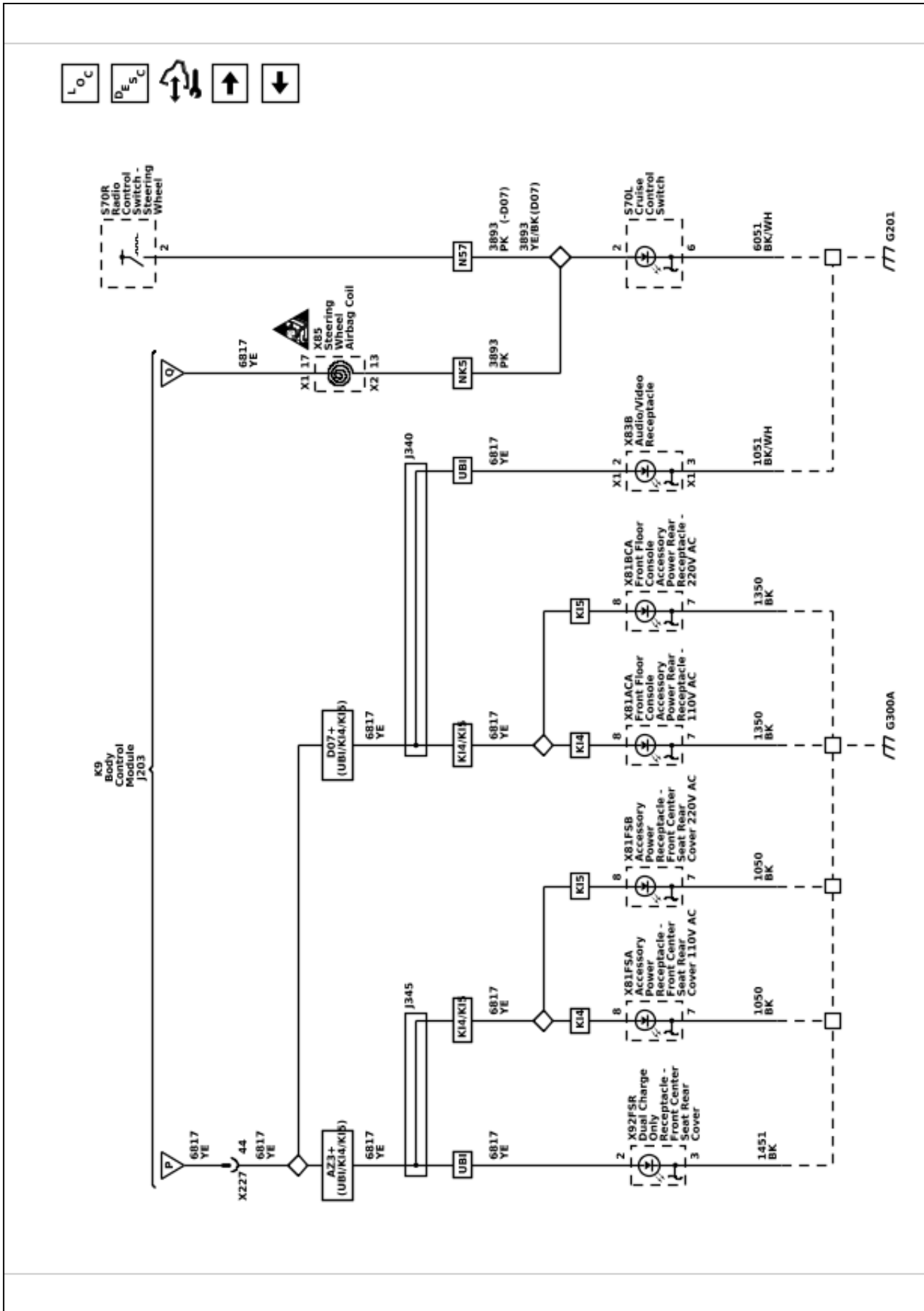
6548162

Interior Lights Dimming Schematics (Controls and Front Door Backlights)



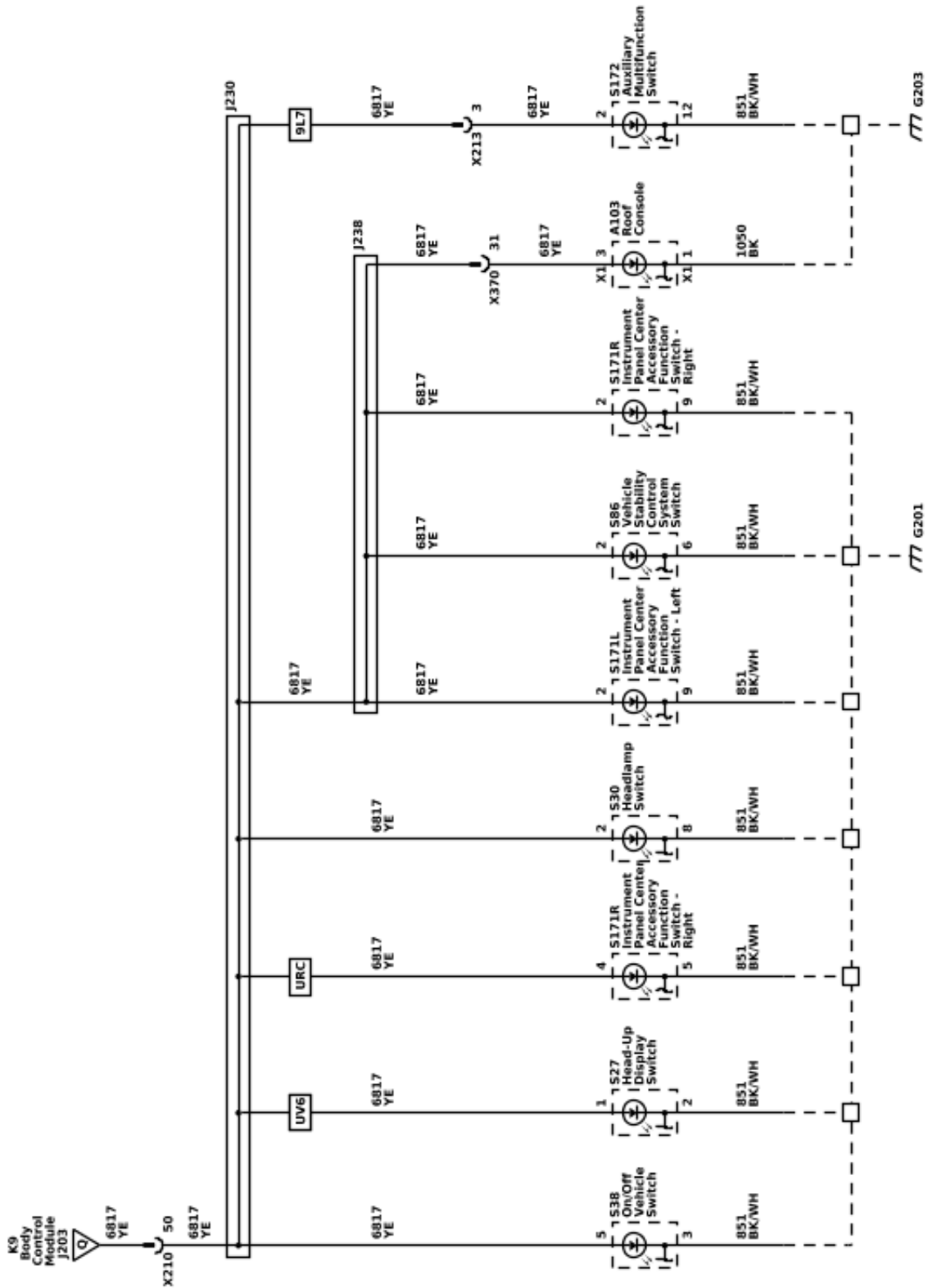
6548163

Interior Lights Dimming Schematics (Steering Wheel, Floor Console, and Center Seat Backlights (D07 / AZ3))

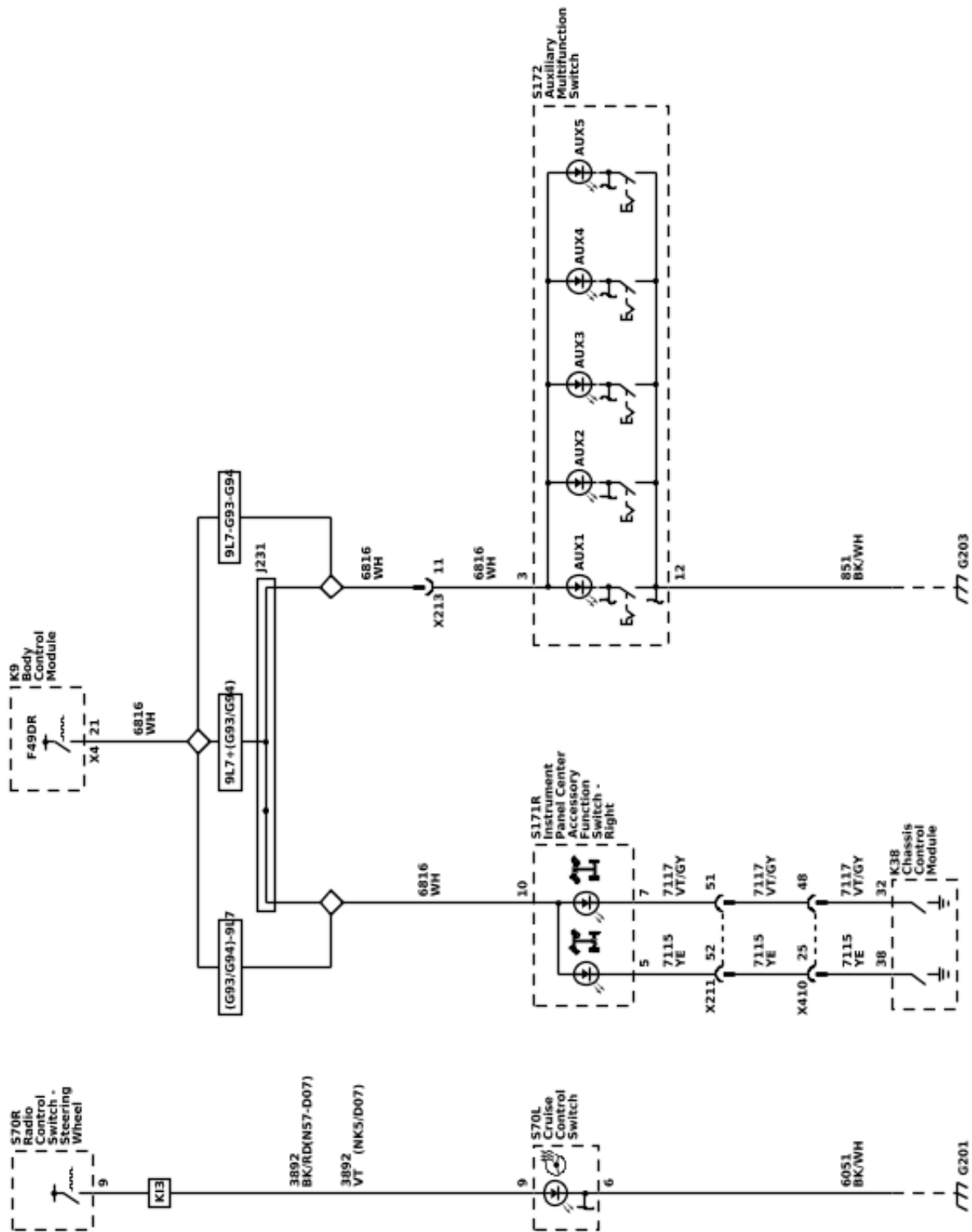


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Interior Lights Dimming Schematics (Instrument Panel Backlights)



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Description and Operation

Exterior Lighting Systems Description and Operation

The exterior lighting system consist of the following lamps:

- Backup lamps
- Cargo lamps
- Daytime running lamps (DRL)
- Exterior courtesy lamps
- Hazard warning lamps
- Headlamps
- Park, tail, license, and marker lamps
- Front fog lamps (T3U)
- Stop lamps
- Task lamps
- Turn signal lamps
- Trailer lighting, refer to *Trailer Description and Operation 1-59* for more information.

Low Beam Headlamps

The headlamps may be turned ON in 3 different ways:

- When the headlamp switch is placed in the ON position, for normal operation
- When the headlamp switch is placed in the AUTO position, for automatic lamp control during low ambient light conditions
- When the headlamp switch is placed in the AUTO position, with the windshield wipers ON in daylight conditions, after a 6 second delay

The K9 Body Control Module (BCM) monitors three signal circuits from the S30 Headlamp Switch. When the headlamp switch is in the AUTO position, the three signal circuits are unaffected (open) and the BCM relies on the B10D Sun Load and Ambient Light and Security Indicator Sensor input to determine if headlamps are required or if daytime running lamps will be activated based on outside lighting conditions. When the headlamp switch is placed in the headlamp OFF position, the headlamp switch headlamps OFF signal circuit is grounded, indicating to the BCM that the exterior lamps should be turned OFF. With the headlamp switch in the PARK LAMPS position, the headlamp switch park lamps ON signal circuit is grounded, indicating that the park lamps have been requested. When the headlamp switch is in the HEADLAMP position, both the headlamp switch park lamps ON signal circuit and the headlamps ON signal circuit are grounded. The BCM responds to these inputs by sending a serial data message to the K219 Lighting Control Module. The Lighting Control Module responds by applying pulse width modulated (PWM) voltage to both headlamp low beam control circuits, illuminating the low beam headlamps. When the Lighting Control Module commands the low beam headlamps ON, the operator will notice the interior backlighting for the instrument cluster and the various other switches dim to the level of brightness selected by the instrument panel dimmer switch.

High Beam Headlamps

The high beam and flash to pass (FTP) functions are contained within the S78 Turn Signal Switch. The K9 Body Control Module (BCM) provides the turn signal/multifunction switch with two signal circuits, the high beam signal circuit and the FTP signal circuit. When the low beam headlamps are ON, and the turn signal/multifunction switch is placed in either the high beam position or FTP position, ground is applied to the BCM through the high beam/FTP signal circuit. The BCM responds to the high beam request by sending a serial data message to the K219 Lighting Control Module. The Lighting Control Module responds by applying pulse width modulated (PWM) voltage to both headlamp high beam control circuits, illuminating the high beam headlamps. The status of the high beam lamps is shown by a blue indicator located on the instrument cluster. When high beams are commanded on, the indicator will be illuminated continuously. If the driver turns the high beams off, the indicator will also turn off.

Flash to Pass

When the S78 Turn Signal Switch is momentarily placed in the flash to pass position, ground is applied to the turn signal/multifunction switch. The turn signal/multifunction switch applies ground to the K9 Body Control Module (BCM) through the flash to pass switch signal circuit. The BCM responds to the flash to pass request by sending a serial data message to the K219 Lighting Control Module. The Lighting Control Module responds by applying pulse width modulated (PWM) voltage to both headlamp high beam control circuits, illuminating the high beam headlamps. This causes the high beam headlamps to illuminate at full brightness until the turn signal/multifunction switch is returned to the at rest position.

Automatic Headlamp Control

The K9 Body Control Module (BCM) monitors three signal circuits from the S30 Headlamp Switch. When the headlamp switch is in the AUTO position, the three signal circuits are unaffected (open) and the BCM relies on the B10D Sun Load and Ambient Light and Security Indicator Sensor input to determine if headlamps are required or if daytime running lamps will be activated based on outside lighting conditions. During automatic lamp control, the headlamps will be off during daylight conditions but will turn on when the ambient light sensor detects low ambient light conditions. The ambient light sensor is a light sensitive transistor that varies the voltage signal to the BCM. The BCM provides a 5 volt reference signal and a low reference ground to the ambient light sensor. During low light conditions the BCM will request the low beam headlamps ON by sending a serial data message to the K219 Lighting Control Module. The Lighting Control Module responds by applying pulse width modulated (PWM) voltage to both headlamp low beam control circuits, illuminating the low beam headlamps.

IntelliBeam – Automatic High Beam Assist (TQ5)

The IntelliBeam system is activated by pressing the auto high beam assist button on the turn signal switch while the exterior lamp control is in AUTO mode and the engine running. The IntelliBeam system consists of a front camera module that detects light, and is able to identify approaching vehicles on an even, straight road at a distance of greater than 0.4 km (0.25 mi). The front camera module analyzes light color, intensity, and movement. The IntelliBeam system will turn OFF the high beam headlamps when approaching vehicle headlamps or preceding vehicle taillights are detected by the front camera module. The IntelliBeam system is turned off anytime the headlamp switch is moved out of the AUTO position.

IntelliBeam System Activation

- Vehicle ON

- Headlamp switch placed in the AUTO position
- Outside lighting conditions must be dark
- Vehicle speed greater than 25 mph (40 km/h)

IntelliBeam System Operation

The following are conditions that the IntelliBeam system will turn the high beam headlamps off during operation:

- The system detects approaching traffic headlamps
- The system detects preceding traffic tail lamps
- Ambient light level too high due to towns or twilight situations
- The vehicle's speed drops below 13 mph (22 km/h)
- Delay

Note: IntelliBeam may not operate properly if any of the following conditions exist:

- Approaching and preceding vehicles lamps are undetectable due to dirt, snow, road spray, smoke, fog, or any other airborne conditions.
- The front camera module is covered with ice, dirt, snow, haze, or is obstructed.
- The vehicle is being driven on winding or hilly road conditions which would make any on coming vehicle headlamps undetectable by the IntelliBeam.

IntelliBeam System Deactivation

- Manually operating the headlamp switch from neutral to high beam position
- IntelliBeam is deactivated automatically when the front or rear fog lamps are turned ON

IntelliBeam System Indicator

The status of the IntelliBeam system is shown by a green indicator located on the instrument panel cluster. When IntelliBeam is active, the indicator will be illuminated continuously. If the operator deactivates the IntelliBeam system, the indicator will turn off.

Daytime Running Lamps

The daytime running lamps (DRL) will illuminate continuously when the following conditions are met:

- Engine running
- The headlamp switch is in the AUTO position
- Ambient light conditions are daytime conditions

The B10D Sun Load and Ambient Light and Security Indicator Sensor is used to monitor outside lighting conditions. The ambient light sensor provides a voltage signal that will vary between 0.2 and 4.9 volts depending on outside lighting conditions. The K9 Body Control Module (BCM) provides a 5 volt reference signal and a low reference ground to the ambient light sensor. The BCM monitors the ambient light sensor signal circuit to determine if outside lighting conditions are correct for either daytime running lamps (DRL) or automatic lamp control when the headlamp switch is in the AUTO position. In daylight conditions the BCM will send a serial data message to the K219 Lighting Control Module to command the DRLs ON, the Lighting Control Module responds by applying pulse width modulated (PWM) voltage to both DRL control circuits, illuminating the DRLs. During low light conditions the Lighting Control Module will command the low beam headlamps ON.

Hazard Lamps

The hazard flashers may be activated in any power mode. The Hazard Warning Switch signal circuit is momentarily grounded when the hazard switch is pressed. The K9 Body Control Module (BCM) responds to the hazard switch signal input by sending a serial data message to the K219 Lighting Control Module. The Lighting Control Module responds by supplying battery voltage to all turn signal lamps in an ON and OFF duty cycle. When the hazard switch is activated, the BCM also sends a serial data message to the instrument cluster requesting both turn signal indicators to be cycled ON and OFF.

Park, Tail, and License Lamps

When the S30 Headlamp Switch is placed in the HEAD or PARK position, ground is applied to the park lamp switch ON signal circuit to the K9 Body Control Module (BCM). The BCM responds to the park lamp switch signal input by sending a serial data message to the K219 Lighting Control Module. The Lighting Control Module responds by applying battery voltage to the park lamps, tail lamps, and license lamps control circuits illuminating the park, tail, and license lamps.

Stop Lamps

The B22 Brake Pedal Position Sensor is used to sense the action of the driver application of the brake pedal. The K9 Body Control Module (BCM) provides the brake pedal position sensor with low reference, signal, and 5 volt reference circuits. When the variable signal reaches a voltage threshold indicating the brakes have been applied, the BCM will respond by sending a serial data message to the K219 Lighting Control Module requesting the stop lamps to be turned ON. The Lighting Control Module responds by applying battery voltage to the left and right stop lamp control circuits as well as the center high mounted stop lamp control circuit illuminating the left and right stop lamps and the center high mounted stop lamp. If serial data communication is lost between the BCM and the Lighting Control Module, the Lighting Control Module will receive a serial data message from the Electronic Brake Control Module indicating that the brakes have been applied. If serial data communication is lost between all three modules, the Lighting Control Module also receives a hard wired voltage signal from the BCM to signal the brake lamps ON.

Turn Signal Lamps

Turn Signals

The K9 Body Control Module (BCM) provides the S78 Turn Signal Switch with left and right turn signal switch signal circuits. Ground is applied at all times to the turn signal/multifunction switch. The turn signal lamps may only be activated with the ignition switch in the ON or START positions. When the turn signal/multifunction switch is placed in either the turn right or turn left position, ground is applied to the BCM through either the right turn or left turn signal switch signal circuit. The BCM responds to the turn signal switch input by sending a serial data message to the K219 Lighting Control Module. The Lighting Control Module responds by applying a pulsating voltage to the turn signal lamps through their respective control circuits. When a turn signal request is received by the BCM, a serial data message is also sent to the instrument cluster requesting the respective turn signal indicator be pulsed ON and OFF.

Turn Signal Outage Detection

Vehicles with LED turn signals require additional turn signal outage detection circuits that provide turn signal feedback to the K219 Lighting Control Module. The Lighting Control Module uses the feedback information to send a serial data message to the instrument cluster to alert the driver anytime a turn signal fault is detected. If a fault is detected on a turn signal circuit or a turn signal feedback circuit, the turn signals will flash in a rapid manner to alert the driver of the fault.

Turn Signal Animation

When the K219 Lighting Control Module receives a serial data message from the K9 Body Control Module (BCM) that the turn signals are being commanded on, the lighting control module responds by applying a pulsating voltage to the front, mirror, and rear turn signal lamps through their respective control circuits. Both front turn signal control circuits are connected to each headlamp assembly, this is for animation purposes. When a headlamp assembly only receives one turn signal input, an animation effect takes place as a “swiping” motion for the front turn signals. When a headlamp assembly receives both turn signal inputs as part of the hazard lamps becoming active, the turn signals do not exhibit the animation effect and will flash without the “swiping” motion.

Backup Lamps

With the engine running and the transmission in the reverse position, the transmission control module (TCM) sends a serial data message to the multiple control modules. The message indicates that the gear selector is in the reverse position. The K9 Body Control Module (BCM) responds to the reverse position message by sending a serial data message to the K219 Lighting Control Module to request the backup lamps on. The Lighting Control Module responds by applying battery voltage to the backup lamps control circuit(s) illuminating the backup lamps. The applied voltage is also sent to the A11 Radio and A10 Inside Rearview Mirror for rearview camera purposes. Once the driver moves the gear selector out of the reverse position, a serial data message is sent by the TCM that the transmission is no longer in the reverse position. The BCM responds to the reverse position message by sending a serial data message to the Lighting Control Module to request the backup lamps off. The Lighting Control Module responds by removing battery voltage from the backup lamp circuits. The engine must be running for the backup lamps to operate.

Cargo Lamps

Cargo Lamps

When the K9 Body Control Module (BCM) receives a task lamp switch input from the S30 Headlamp Switch, the BCM responds by sending a serial data message to the K219 Lighting Control Module. The lighting control module responds by applying pulse width modulated (PWM) voltage to the cargo lamp control circuits illuminating the cargo lamps. In the event that the cargo lamps were to remain illuminated for more than 10 minutes with the ignition switch in the OFF position, the lighting control module will deactivate the cargo lamp control circuits to prevent total battery discharge.

Task Lamps

When the K9 Body Control Module (BCM) receives a task lamp switch input from the S30 Headlamp Switch,

the BCM responds by sending a serial data message to the K219 Lighting Control Module. The lighting control module responds by applying pulse width modulated (PWM) voltage to the task lamp control circuits illuminating the task lamps in each outside rearview mirror assembly. When the task lamp switch is pressed a second time, the left task lamp control circuit will stay illuminated while the right side will be turned off. When the task lamp switch is pressed a third time, the left task lamp control circuit will be turned off while the right side will be turned back on. When the task lamp switch is pressed a fourth time, both task lamps will be turned off. In the event that the task lamps were to remain illuminated for more than 10 minutes with the ignition switch in the OFF position, the lighting control module will deactivate the cargo lamp control circuit to prevent total battery discharge.

Approach Lighting

Approach lighting is commanded ON when the unlock button is pressed on the keyless entry transmitter during dark ambient light conditions. When the keyless entry transmitter unlock button is pressed, a serial data message is sent by the K9 Body Control Module (BCM) that the vehicle is being unlocked. The K219 Lighting Control Module responds to the serial data message by applying voltage to the approach lamp control circuit illuminating the LED lighting located under each outside rearview mirror as part of approach lighting.

Battery Run Down Protection/Inadvertent Power

To provide battery run down protection, the exterior lamps will be deactivated automatically under certain conditions. The K9 Body Control Module (BCM) monitors the state of the S30 Headlamp Switch. If the headlamp switch is in the park or headlamp position when the ignition switch is ON and then the ignition switch is placed in the OFF position, the BCM initiates a 10 minutes timer. At the end of the 10 minutes, the BCM will send a serial data message to the K219 Lighting Control Module to deactivate the exterior lamps to prevent total battery discharge. This feature will be cancelled if any power mode other than OFF becomes active.

The BCM will disable battery run down protection if any of the following conditions exist:

- The park or headlamp switch is changed from the ON to OFF position, and back to the ON position during battery run down protection.
- The BCM determined that the park or headlamp switch was not active when the ignition was turned OFF.

Interior Lighting Systems Description and Operation

Interior Lamps

Dome Lamps

The dome lamps are controlled by door ajar inputs to the K9 Body Control Module (BCM). When any door is opened, the door ajar switch contacts close and the BCM receives a door-open input. The BCM responds by sending a serial data message to the A103 Roof Console. The Roof Console responds by applying battery voltage to the dome lamps illuminating the dome lamps. The BCM will also send a serial data message to request the dome lamps on when a door lock/unlock request is activated with the key fob. After all doors have been closed, the dome lamp will remain illuminated approximately 3 seconds after the last door closes. In the event that the dome lamp were to remain illuminated for more than 10 minutes with the ignition switch in the OFF position, the BCM will deactivate the dome lamp control circuit to prevent total battery discharge. The dome lamps will turn OFF using the theater dimming feature when controlled by the BCM.

Center Console Compartment Lamp

The K9 Body Control Module (BCM) supplies battery voltage to the center console lamp through control circuit 4786 anytime the ignition/vehicle is turned on or the dome lamps are requested on through the dome lamp control switch on the A103 Roof Console. In the event that the center console lamp were to remain illuminated for more than 10 minutes with the ignition/vehicle off, the BCM will deactivate the courtesy lamp control circuit to prevent total battery discharge.

Keyless Entry Interior Illumination

When the operator uses the keyless entry transmitter in order to unlock the doors, the K9 Body Control Module (BCM) receives a door-unlock signal. The BCM must receive inputs from various systems that indicate that the ignition switch is OFF, the courtesy lamp switch is OFF, and all doors are closed before the BCM will activate the interior lamps. After all doors have been closed, the courtesy lamps will turn OFF immediately if the ignition switch is turned to the ON position, the door locks are LOCKED, or approximately 20 seconds after the last door closes. The BCM will turn off the courtesy lamps through the theater dimming feature. The BCM keeps the courtesy lamps on for 40 seconds after an alarm event is completed.

Reading Lamps

When a reading lamp button is pressed, the switch contacts close providing a path to ground for the signal circuit from the A103 Roof Console. The roof console responds by applying battery voltage to the appropriate reading lamp control circuit illuminating the reading lamp. If the operator inadvertently leaves a reading

lamp ON, the BCM will send a serial data message to turn all interior lighting off after 10 minutes has passed to prevent total battery discharge.

Sunshade Mirror Lamp

The inadvertent power supply voltage circuit from the K9 Body Control Module (BCM) provides battery voltage to the passenger side sunshade mirror lamp. When the sunshade mirror cover is opened, a switch closes providing ground and the sunshade lamp illuminates. If the operator inadvertently leaves the sunshade mirror cover open with the lamp ON, the BCM will turn all interior lamps OFF after 10 minutes has passed to prevent total battery discharge.

Interior Lamps Dimming

With the S30 Headlamp Switch in the PARK or HEAD position, the park lamp switch signal circuit provides an input to the K9 Body Control Module (BCM). The BCM responds by applying voltage to the backlight dimming control circuits illuminating all components with interior backlighting. All interior backlighting turns on at the dimming level set by the dimmer buttons within the headlamp switch. The headlamp switch is used to increase and decrease the brightness of the interior backlighting components. The BCM provides a signal circuit and a low reference circuit to the headlamp switch for backlight dimming. When a dimming button is pressed, the signal circuit becomes grounded through the appropriate resistor internal to the headlight switch and voltage from the BCM will decrease accordingly. The BCM interprets the signal and responds in two ways. The BCM applies a pulse width modulated (PWM) voltage through the LED dimming control circuits illuminating the interior backlighting to the requested level of brightness. The BCM also sends a serial data message to the appropriate control modules requesting all dimming components to be illuminated to the same level of brightness.

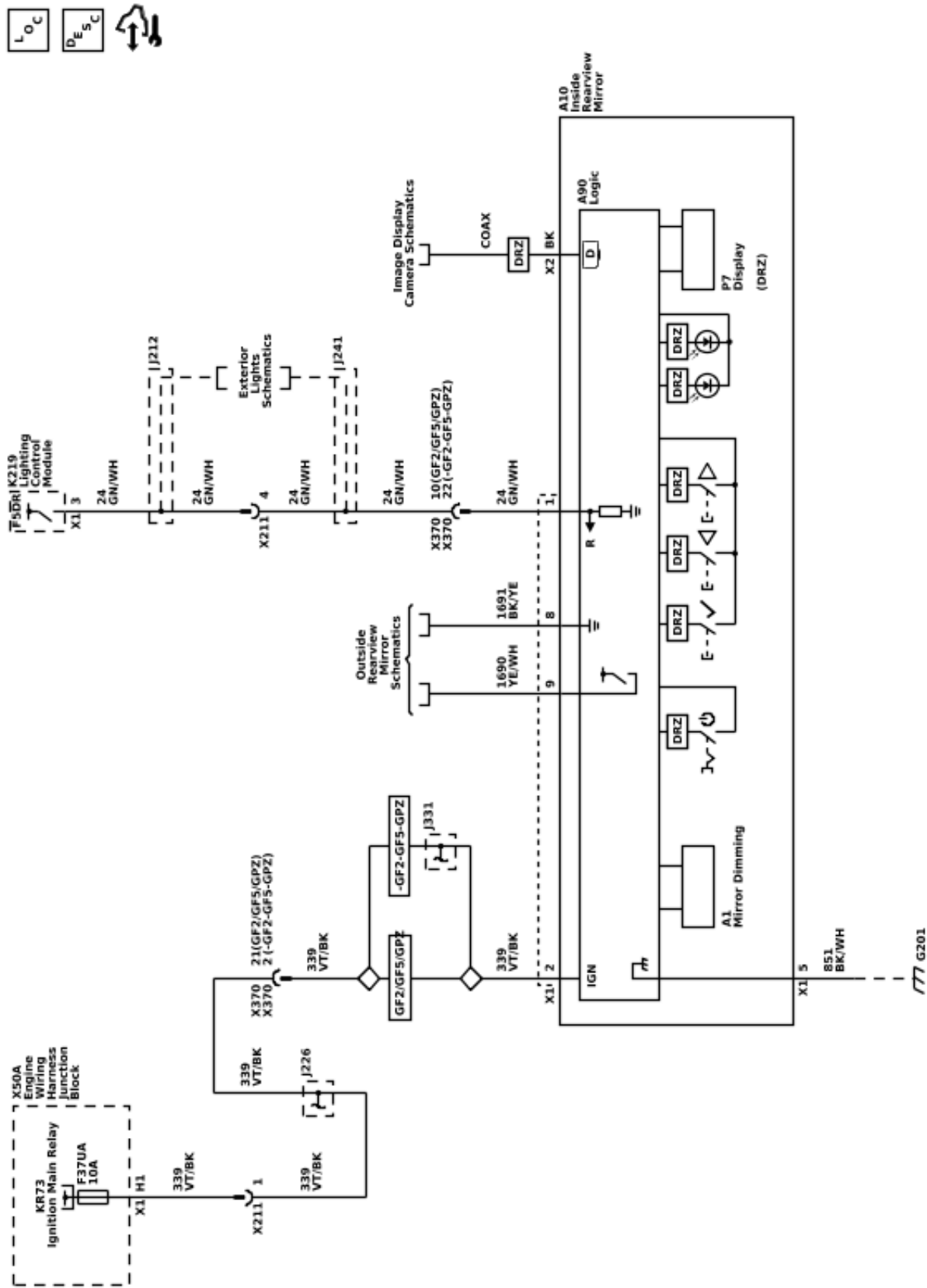
Battery Rundown Protection/Inadvertent Power

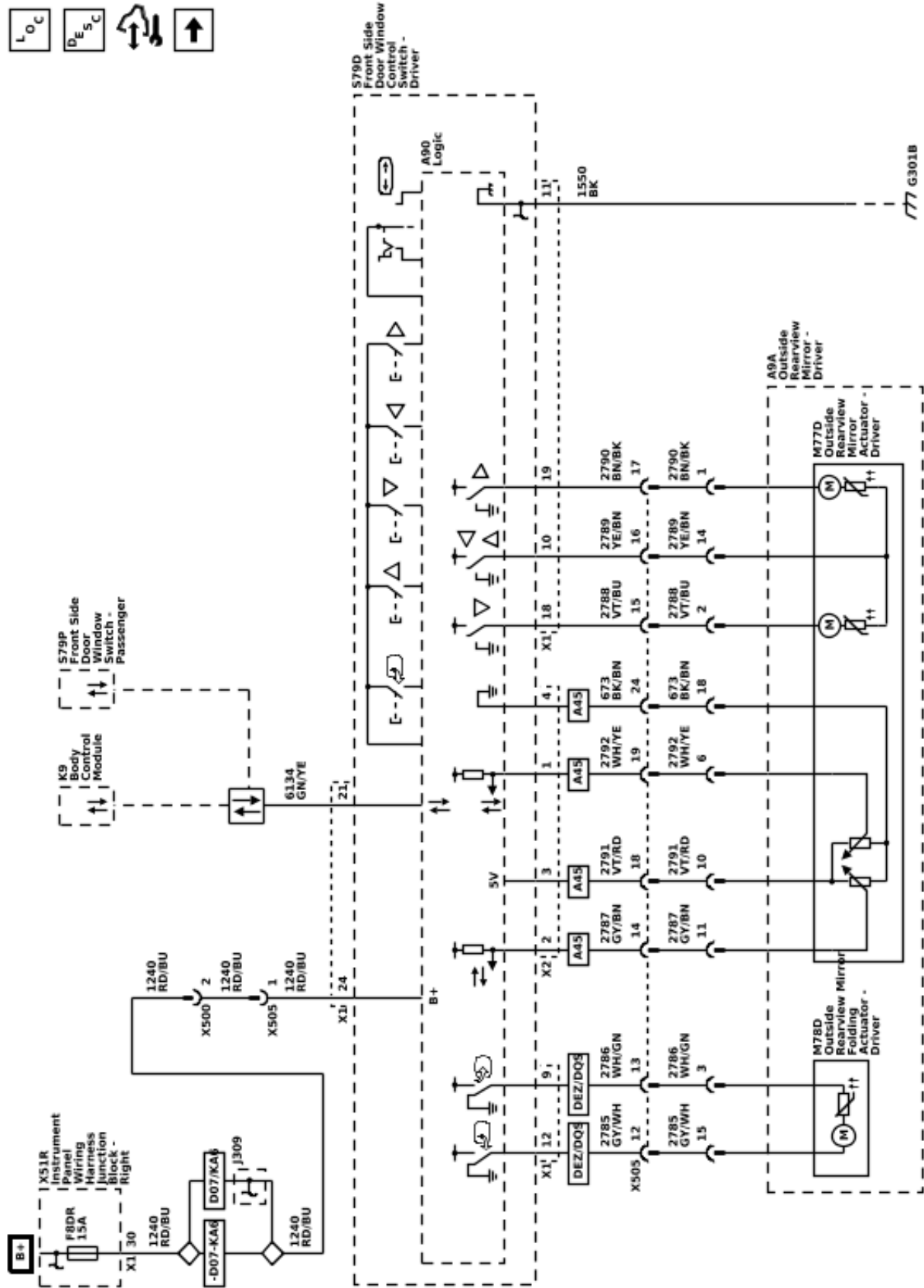
The K9 Body Control Module (BCM) inadvertent power supply voltage circuit provides battery voltage to all of the interior courtesy lamps. In the event that any of these lamps were to remain illuminated for a period of more than 10 minutes with the ignition switch in the OFF position, the BCM will deactivate the inadvertent power supply voltage circuit to prevent total battery discharge. If the ignition switch is turned to any position other than OFF, or if a lamp switch is activated during this 10 minute period, the timer resets for another 10 minutes.

Mirrors

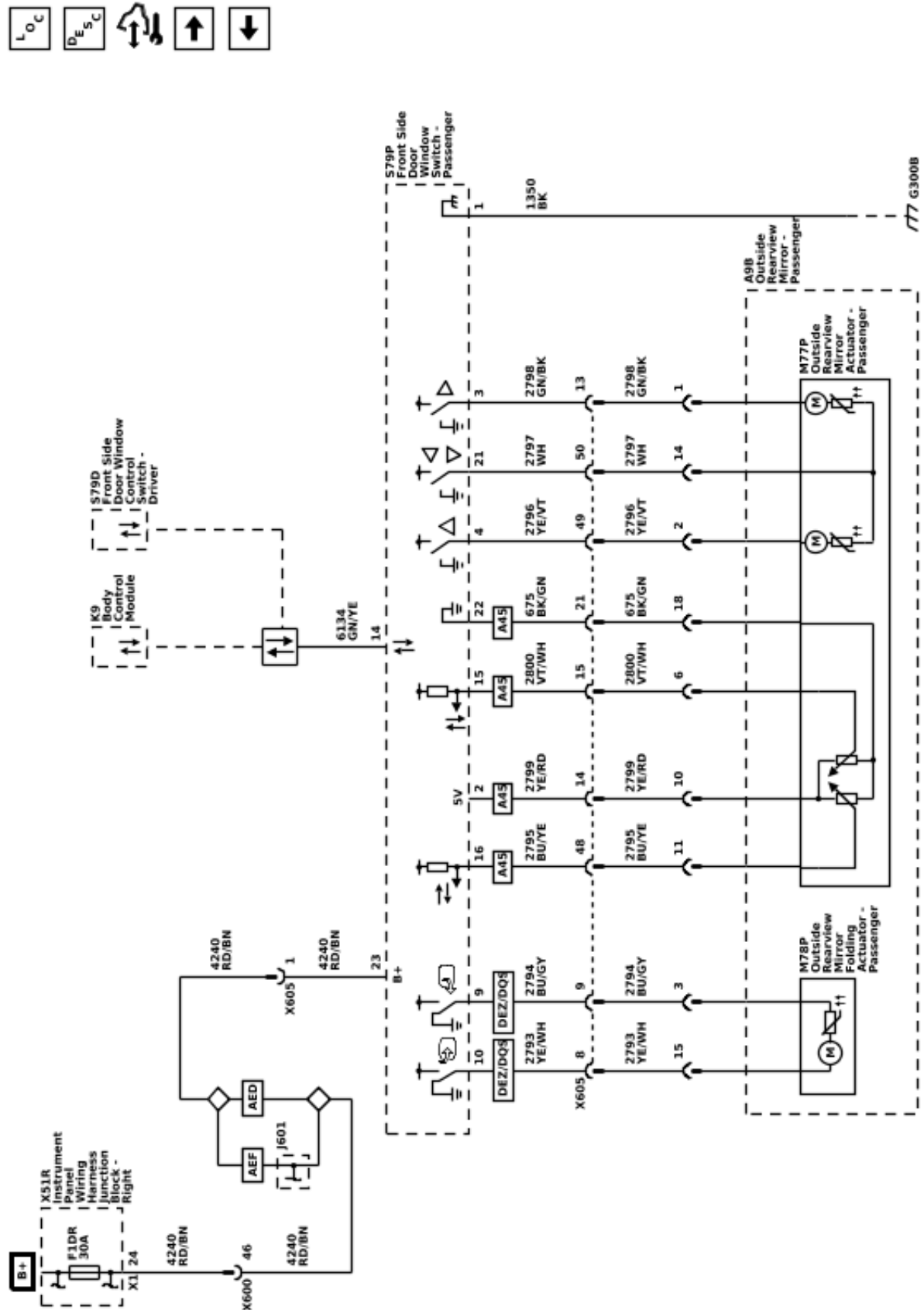
Schematic and Routing Diagrams

Inside Rearview Mirror Schematics (Inside Rearview Mirror (DD8 / DRZ))

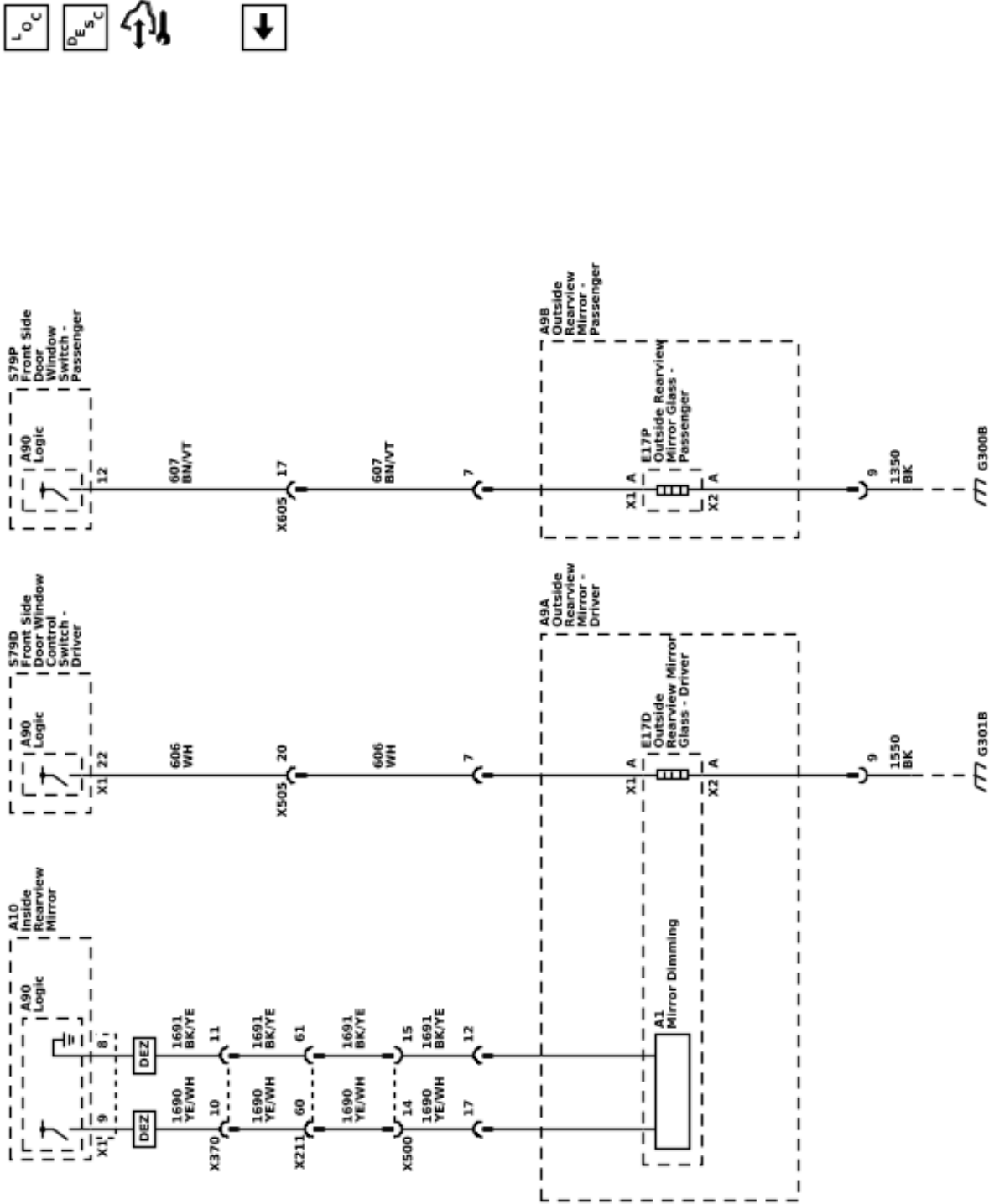




Outside Rearview Mirror Schematics (Passenger Controls, Position, and Folding)



Outside Rearview Mirror Schematics (Dimming and Heating (DEZ))



6548170

Description and Operation

Automatic Day-Night Mirror Description and Operation

Inside Rearview Mirror with the Automatic Day-Night Feature System Operation

The inside rearview mirror uses 2 photocell sensors. One sensor is the headlight sensor, located on the face side of the mirror. The headlight sensor is used to determine light conditions present at the mirror face. The other sensor is the ambient light sensor, located on the rear of the mirror or windshield side. The ambient light sensor is used to determine the exterior light conditions. With a low exterior light condition detected, and a high light condition from behind the car at the headlight sensor, the inside rearview mirror will automatically darken the face of the mirror.

In the daytime, the mirror is in a normal state because of the high exterior light condition that is indicated by the ambient light sensor. With the gear selector lever in the REVERSE position and the Ignition ON/Vehicle in Service Mode, backup lamp supply voltage is supplied as an input to the inside rearview mirror. The mirror monitors this input to disable the automatic day-night feature. This allows the driver to see objects in the mirror clearly when backing up, even during the night.

Driver Outside Rearview Mirror with Automatic Day-Night System Operation (If Equipped)

The automatic day-night feature of the driver outside rearview mirror is controlled by the inside rearview mirror. The inside rearview mirror supplies control and low reference to the driver outside rearview mirror. At night, with the automatic day-night feature enabled, the driver outside rearview mirror will automatically darken with the inside rearview mirror to reduce glare from headlamps behind the vehicle.

Inside Rearview Camera Full Display Mirror System Operation

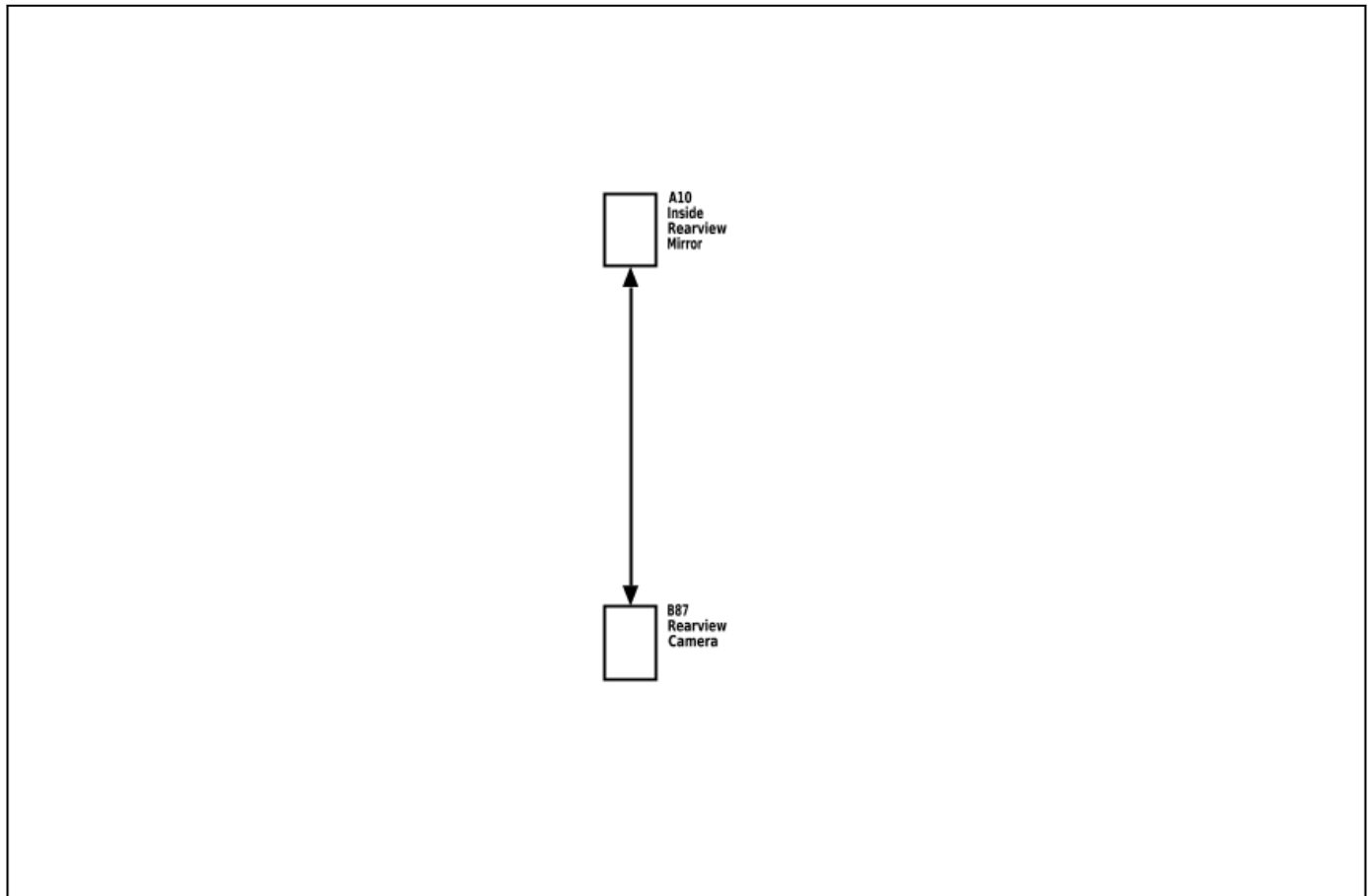
The A10 Inside Rearview Mirror is connected to the B352 Video Display inside Rearview Mirror Camera via a shielded coaxial cable. When the tab under the inside rearview mirror is pulled rearward, a view of the area behind the vehicle displays on the mirror. Adjust the rearview mirror for a clear view of the area behind the vehicle before turning on full display mirror. Use the button on the back of the mirror to adjust the brightness of the display. Make sure the light sensor is not covered when adjusting the brightness.

The inside rearview camera full display mirror may not work properly or display a clear image if:

- It is dark.
- The sun or the beam of headlamps are shining directly into the camera lens.
- Ice, snow, mud, or anything else builds up on the camera lens. Clean the lens, rinse it with water, and wipe it with a soft cloth.

When the mirror detects that the camera is not sending a valid video signal, it “blue screens” with a “no video” decal for 3 seconds, then reverts back to the mirror.

Rearview Camera Full Display Mirror Block Diagram



4433072

Outside Mirror Description and Operation

Power Mirror System Components

The power mirror system consists of the following components:

- Body Control Module
- Driver Seat Adjuster Memory Module
- Outside Mirror Switch
- Passenger Window Switch
- Left Outside Rearview Mirror
- Right Outside Rearview Mirror

Power Mirror System Controls

The outside rearview mirror switch is part of the S79D Driver Front Side Door Window Control Switch and uses serial data to control the passenger mirror through the S79P Passenger Front Side Door Window Control Switch. Each S79 Side Door Window Control Switch has its own 12V, ground and data communications circuit along with mirror directional control and mirror fold circuits.

Driver Mirror Controls

The S79D Driver Front Side Door Window Control Switch has internal connections for the driver mirror. When the mirror position switch is active the driver mirror is commanded to move through bi-directional motor control circuits. The motor control circuits are floating while in an inactive state and the switches will apply power and ground to the control circuits as necessary to move the mirror in the commanded direction.

Passenger Mirror Controls

The S79D Driver Front Side Door Window Control Switch uses serial data circuits to communicate the active states for the passenger mirror switch to the S79P Passenger Front Side Door Window Control Switch. The S79P Passenger Front Side Door Window Control Switch has internal connections for the passenger mirror. When the mirror position switch is active the passenger mirror is commanded to move through bi-directional motor control circuits. The motor control circuits are floating while in an inactive state and the switches will apply power and ground to the control circuits as necessary to move the mirror in the commanded direction.

Mirror Position

Mirror position is determined by both horizontal and vertical position sensors in each of the power mirrors. Each S79 Front Side Door Window Control Switch supplies a 5 V reference, low reference, and horizontal and vertical position signal circuits to these sensors. The signal circuits are referenced from 5 V by the S79 Front Side Door Window Control Switch and the signal circuit voltage levels represent the mirror positions. The mirror positions are stored in each S79 Front Side Door Window Control Switch for memory mirror operation. When the memory seat module receives a memory recall command, the memory seat control module will send the go to position to the S79 Front Side Door Window Control Switch. The S79 Front Side Door Window Control Switches will then drive the appropriate mirror motors to the commanded position sensor settings.

Mirror Select

The S79D Driver Front Side Door Window Control Switch has internal connections for the mirror select switch. When the mirror select switch is active the S79 Front Side Door Window Control Switch will either control the driver mirror or send a serial data message to control the passenger mirror.

Folding Mirrors

The S79D Driver Front Side Door Window Control Switch sends the mirror fold/unfold inputs to the K9 Body Control Module (BCM) through serial data. When the BCM receives a fold/unfold signal it will send a fold/unfold command to the S79 Driver Front Side Door Window Control Switch which will send a serial data message to the S79P Passenger Front Side Door Window Control Switch. The outside mirrors will fold or unfold depending on their current state. The BCM will also send a serial data message to unfold the mirrors when the vehicle reaches 20 km/h (12 mph) unless equipped with camper/trailer mirrors. The S79 Front Side Door Window Control Switches control the fold/unfold motors through bi-directional control circuits

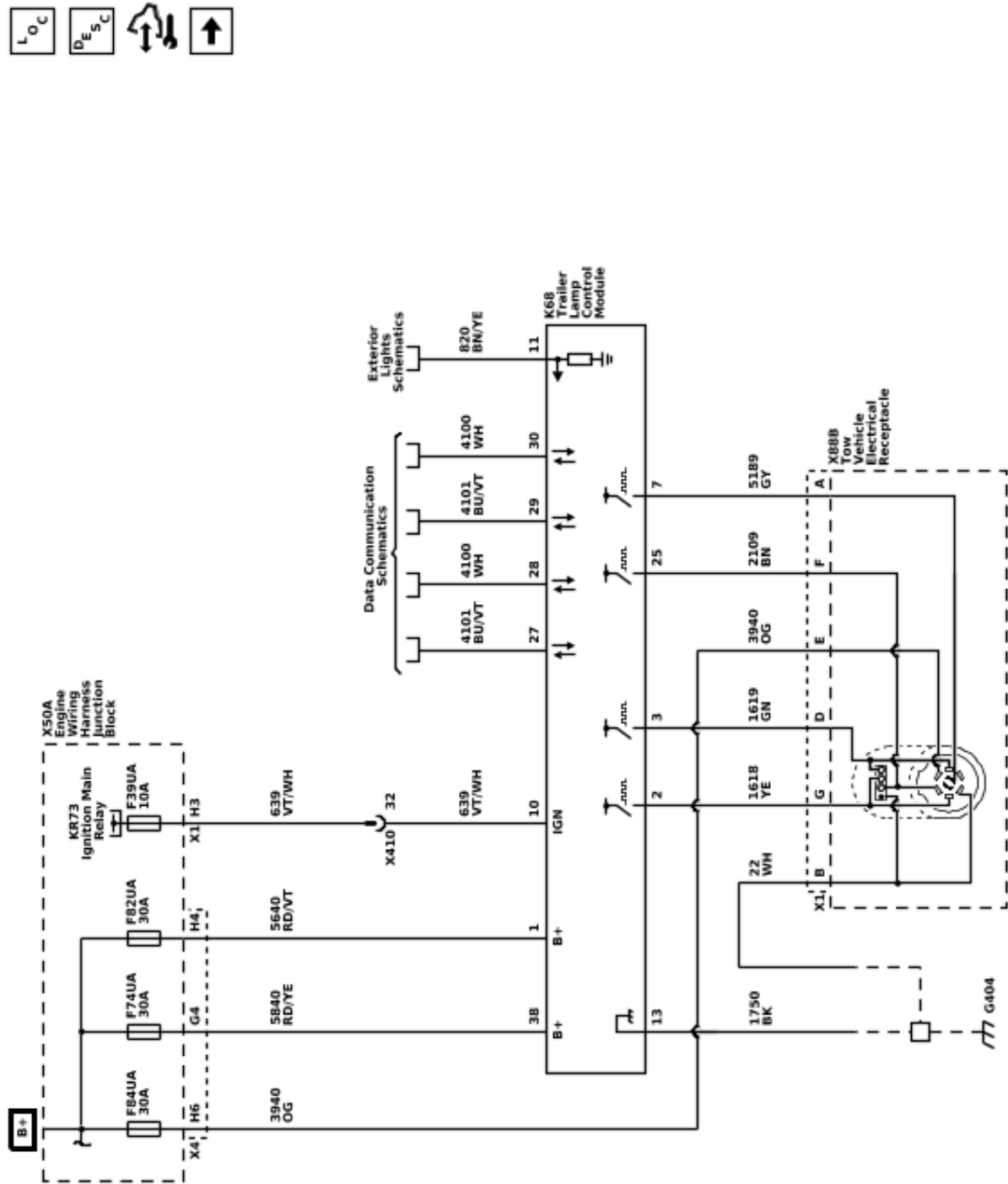
Heated Mirrors

The heated mirrors are controlled through each S79 Front Side Door Window Control Switch. When the vehicle is running and the HVAC control module receives a rear window defog request from the radio/HVAC controls, the HVAC control module will send a serial data message to the S79D Driver Front Side Door Window Control Switch and S79P Passenger Front Side Door Window Control Switch. Each S79 Front Side Door Window Control Switch provide B+ voltage to the driver and passenger outside rearview mirror heating elements.

Trailer Systems

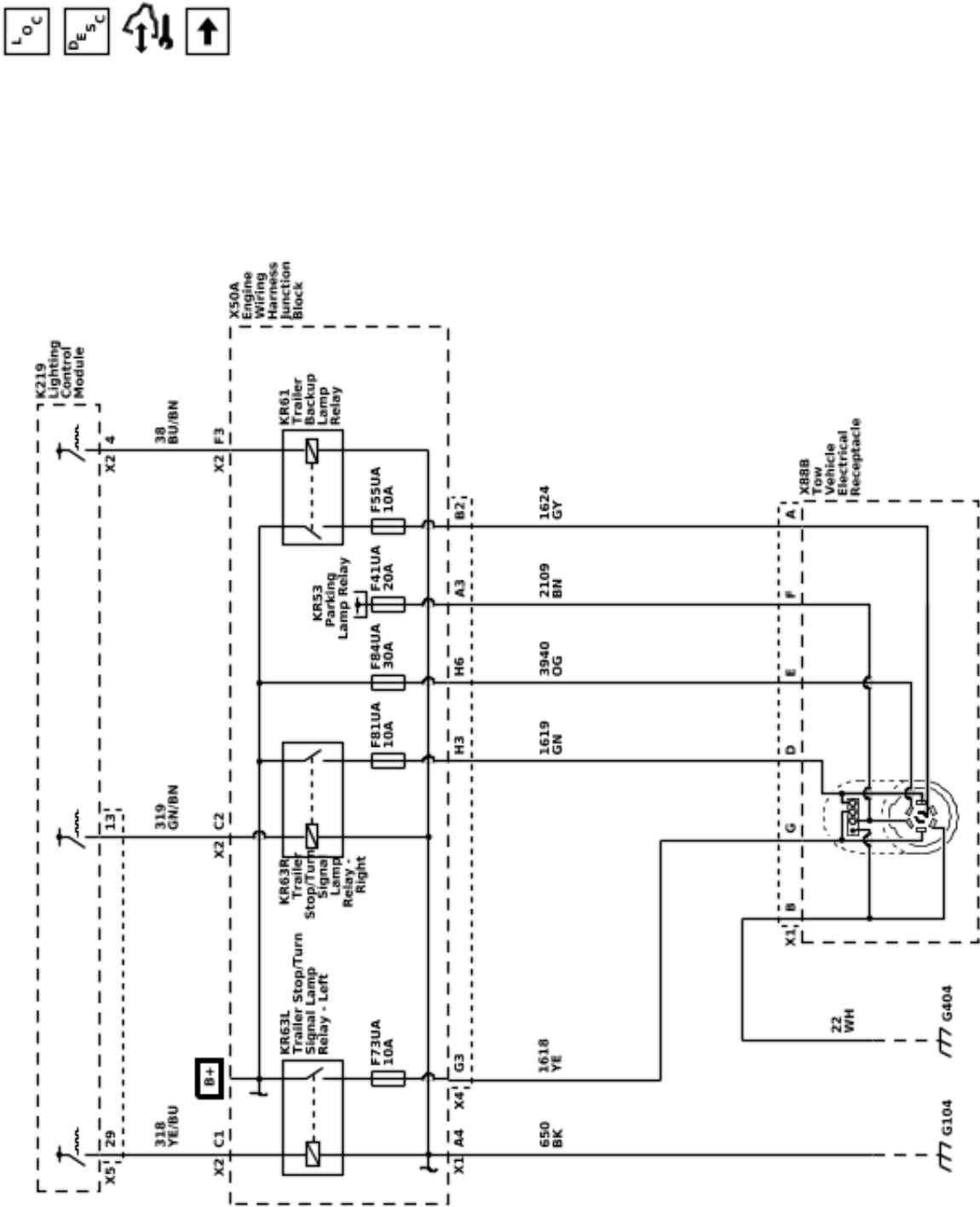
Schematic and Routing Diagrams

Trailer Systems Schematics (Trailer Lighting Control Module (UET))



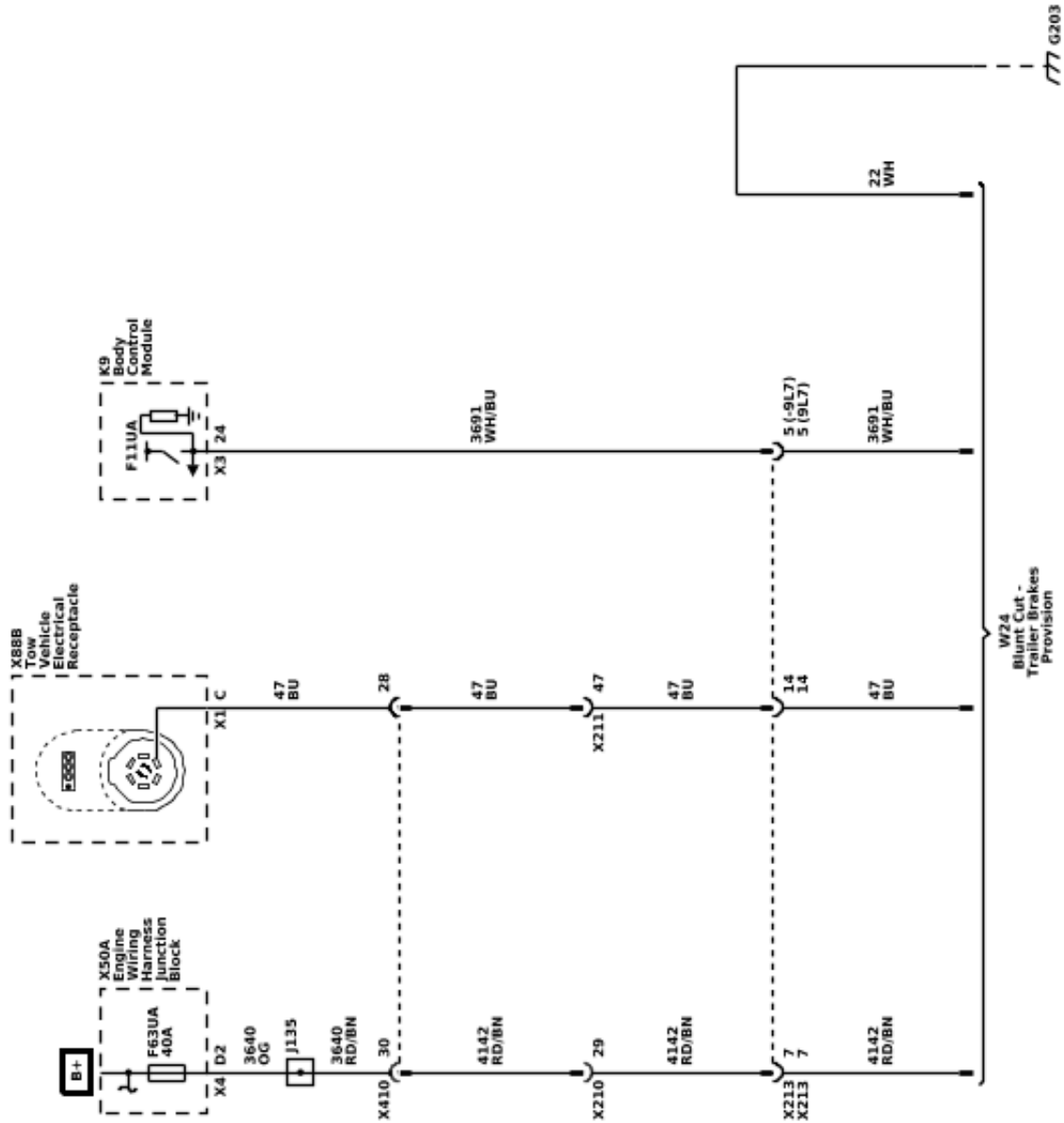
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Trailer Systems Schematics (Trailer Connector Pins: A, B, D, E, F, G (Z82 - UET))



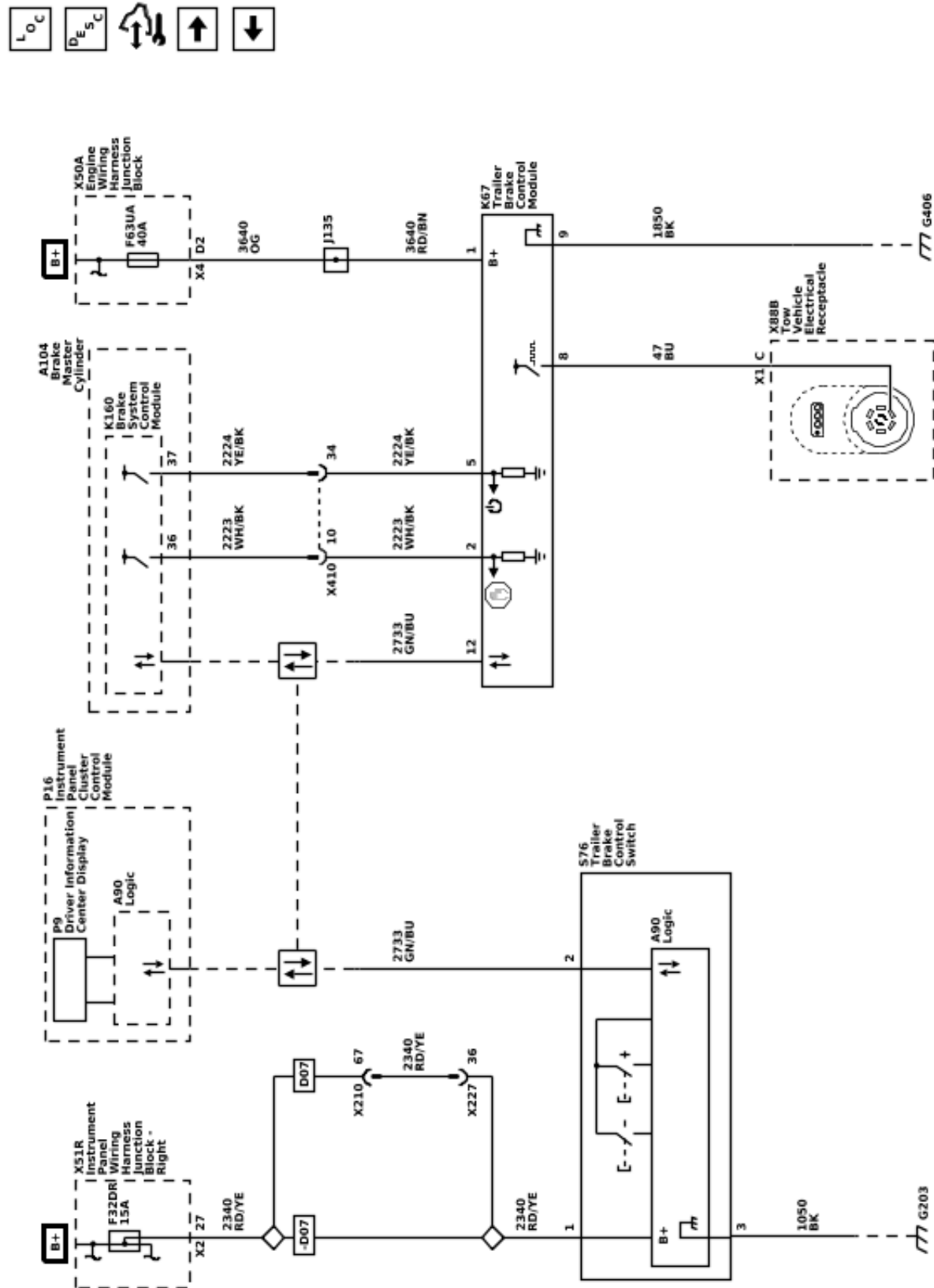
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Trailer Systems Schematics (Trailer Brake Provisions (Z82 - JL1))



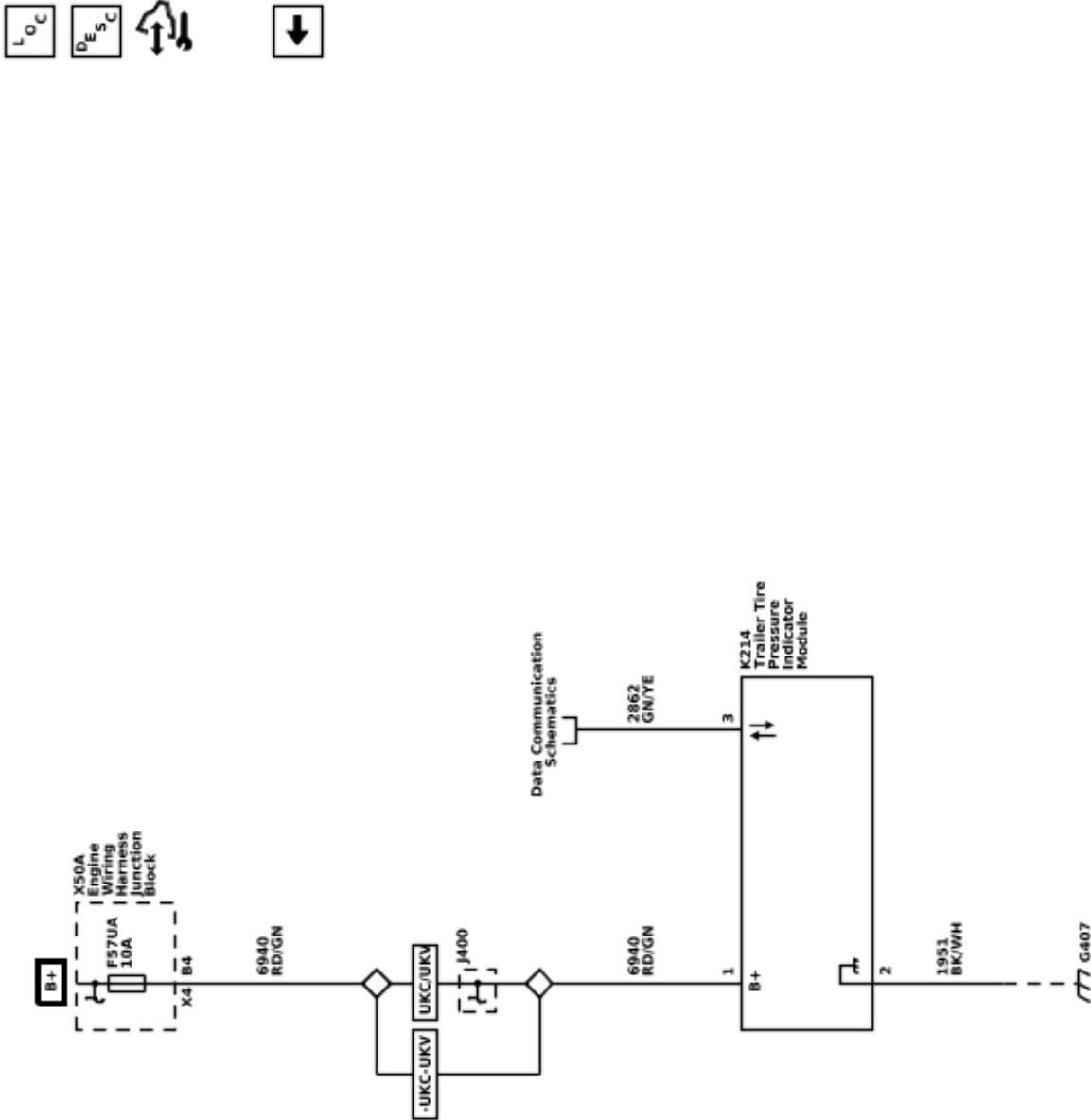
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Trailer Systems Schematics (Trailer Brake (JL1))



6548174

Trailer Systems Schematics (Trailer Tire Pressure (UET))



6548175

Description and Operation

Trailer Description and Operation

Trailer System Overview

Begin the trailering system diagnosis with **Diagnostic System Check - Trailing**. The Diagnostic System Check - Trailing will provide a complete strategy to locate and repair a vehicle trailering electrical fault. Not following this strategy may cause additional diagnostic time and/or misdiagnosis.

The trailering system consists of the following:

- Trailer Lighting, refer to **Trailer Lamps Malfunction** for additional diagnostic information.
- {JL1} Trailer Brakes, refer to **Trailer Brake Malfunction** for additional diagnostic information.
- Trailer Battery Charging System, refer to **Trailer Battery Charging Malfunction** for additional diagnostic information.
- Trailer Detection, refer to **Trailer Detection Malfunction** for additional diagnostic information.
- Trailer Tire Pressure Monitoring System, refer to **Trailer Tire Pressure Monitoring Malfunction** for additional diagnostic information.
- Trailer Theft Detection.

7-Terminal Tow Vehicle Electrical Receptacle Pinout

- Terminal A – Trailer Backup Lamp Control
- Terminal B – Ground
- Terminal C – Trailer Brake Control
- Terminal D – Right Trailer Stop/Turn Signal Lamp Control
- Terminal E – B+
- Terminal F – Trailer Park Lamp Control
- Terminal G – Left Trailer Stop/Turn Signal Lamp Control

Connecting Aftermarket Accessories

- Some aftermarket accessories that connect to the X88B Tow Vehicle Electrical Receptacle will be recognized by the vehicle as a trailer connected, even if the accessory is not a trailer. As a result, side blind zone detection, rear park assist, and/or rear cross traffic alert will be turned off anytime the vehicle detects a trailer/accessory is connected.
- Vehicles equipped with U1D/UET have trailer theft detection that constantly monitors trailer connected status when enabled. This is done by randomly pulsing the lighting circuits of the trailer when the vehicle is parked. As a result, some aftermarket accessories may be turned ON/OFF when connected to the vehicle with theft detection enabled.
- Vehicles equipped with U1D/UET use pulse width modulation voltage (PWM) for trailer lighting functions. Some aftermarket accessories are incompatible with PWM and may not function correctly when connected to the trailer lighting circuits of the vehicle.

Trailer Battery Charging System

Trailer battery charging is accomplished through constant battery voltage from the X50A Engine Wiring Harness Junction Block to the X88B Tow Vehicle Electrical Receptacle. Battery voltage is supplied to terminal E at the X88B Tow Vehicle Electrical Receptacle at all times. If equipped, the trailer battery will constantly be charged by the vehicle's electrical system anytime the trailer is connected. Some trailers require the B+ circuit to the X88B Tow Vehicle Electrical Receptacle for the trailer brakes to function.

Trailer Lighting and Detection With U1D/UET

Note:

- Some trailers utilize a trailer mounted control module to operate some or all of the trailer lights. These trailers may use the B+ circuit from the trailer connector to power the trailer lighting circuits. These trailers may not always be detected by the Trailer Lighting Control Module and may set faults.
- When a trailer is detected on a vehicle equipped with side blind zone detection, rear park assist, and/or rear cross traffic alert, the vehicle will automatically turn these features off. These features are turned off to prevent false detections due to the trailer obstructing the view of the sensors.
- Vehicles equipped with IOR/1FL do not come equipped with the trailering APP however may still be equipped with a K68 trailer Lamp Control Module.

The K68 Trailer Lamp Control Module is responsible for controlling the trailer lighting on vehicles with U1D/UET. The combined trailer stop/turn signal lamps of the trailer must draw at least 55mA of total current to be detected as a trailer or the Trailer Lamp Control Module will not control the lighting circuits. The Trailer Lamp Control Module receives serial data messages from the K9 Body Control Module (BCM) indicating what lamps have been activated on the vehicle. The Trailer Lamp Control Module responds by applying pulse width modulated voltage (PWM) to the appropriate control circuits for the requested lamps illuminating the lamps on the attached trailer. The Trailer Lamp Control Module constantly monitors for trailer connection status, trailer lighting faults, and trailer theft deterrent purposes. This is accomplished through the lighting circuits of the trailer to determine if a trailer is connected. When a trailer is connected, the Trailer Lamp Control Module senses the trailer connection and alerts the driver by requesting a trailer profile setup through the Trailing App, which is displayed on the infotainment screen. If a trailer is disconnected with the ignition ON, the vehicle will display multiple trailer lighting messages until a trailer is reconnected or the message is dismissed by the user. With the key OFF, the Trailer Lamp Control Module will periodically pulse

the lighting circuits of the trailer to verify it is still connected. The lights on the trailer may flash at different intervals with the key OFF depending on which type of lights the trailer is built with. If a trailer is disconnected with the key ON, the vehicle will display a trailer disconnected message until a trailer is reconnected or the ignition is cycled.

Trailer Lighting Without U1D/UET

The K219 Lighting Control Module is responsible for controlling the trailer lighting on vehicles without U1D/UET. The lighting control module receives serial data messages from the K9 Body Control Module (BCM) indicating what lamps have been activated on the vehicle. The lighting control module responds by applying voltage to the appropriate relay control circuits for the requested lamps anytime the vehicle lamps are commanded ON. With the relay coil energized, the relay contacts close and allow voltage to flow through the relay illuminating the appropriate lamps on the attached trailer.

Trailing Messages

The Infotainment Display may display one or more of the following messages to the user related to trailing:

Trailing Messages

Trailing Message	Description
Check Trailer Left Turn Signal Lamp	The K68 Trailer Lighting Control Module detects a fault on the left trailer stop/turn lamp control circuit
Check Trailer Right Turn Signal Lamp	The K68 Trailer Lighting Control Module detects a fault on the right trailer stop/turn lamp control circuit
Check Trailer Rear Lamp	The K68 Trailer Lighting Control Module detects a fault on the trailer park lamp control circuit.
Check Trailer Reversing Lamp	The K68 Trailer Lighting Control Module detects a fault on the trailer backup lamp control circuit.
Check Trailer Brake Lamps	The K68 Trailer Lighting Control Module detects a fault on the left and/or right trailer stop/turn lamp control circuits
{JL1} Check Trailer Wiring	The K67 Trailer Brake Control Module detects a fault on the trailer brake control circuit or the trailer was disconnected.
Lane Change Alert Off	Reminder to the user that lane change alerts are turned off anytime a trailer is detected.
Rear Cross Traffic Alert Off	Reminder to the user that rear cross traffic alerts are turned off anytime a trailer is detected.
Rear Park Assist Off	Reminder to the user that rear park assist is turned off anytime a trailer is detected.
Remember to turn On Tow/Haul Mode	Reminder to the user to turn ON Tow/Haul Mode when towing.
{JL1} Service Trailer Brake System	The K67 Trailer Brake Control Module detects a fault on the trailer brake control circuit.
Service Trailer Tire Monitor System	The K214 Trailer Tire Pressure Indicator Module detects one or more issues with the trailer tire pressure monitoring system.
Trailer Detected	The K68 Trailer Lighting Control Module detects a trailer has been connected to the X88B Tow Vehicle electrical Receptacle.

Trailer Message	Description
{JL1} Trailer Brakes Detected	The K67 Trailer Brake Control Module detects a trailer with trailer brakes has been connected to the X88B Tow Vehicle electrical Receptacle.
Trailer Disconnected Check Connection	The K68 Trailer Lighting Control Module detects a trailer has been disconnected from the X88B Tow Vehicle electrical Receptacle.
Trailer Tire Pressure High	The K214 Trailer Tire Pressure Indicator Module detects one or more of the trailer tire pressures is high.
Trailer Tire Pressure Low	The K214 Trailer Tire Pressure Indicator Module detects one or more of the trailer tire pressures is low.
Trailer Tire Sensor Fault	The K214 Trailer Tire Pressure Indicator Module detects one or more of the trailer tire pressure sensors has a fault.
Trailer Tire Temperature High	The K214 Trailer Tire Pressure Indicator Module detects one or more of the trailer tire temperatures is too high.

Trailer Theft Detection (With U1D/UET Only)

Trailer theft monitoring can be turned ON and OFF through the vehicle Trailer App. When enabled, any time the trailer theft deterrent system is armed, the trailer lighting circuits are constantly monitored to determine if a trailer is connected for trailer theft deterrent purposes. With the key OFF, the K68 Trailer Lamp Control Module will randomly pulse the lighting circuits of the trailer to verify it is still connected by monitoring the voltage drop of the circuit. Depending on the configuration of the trailer lights, the trailer lights may randomly flash as part of the trailer theft deterrent function. These flashes correspond to when the K68 Trailer Lamp Control Module pulses the lighting circuits to ensure the trailer is still connected and is considered normal. If the trailer is disconnected while the trailer theft deterrent system is armed, the vehicle will flash the exterior lights and cycle the horn to alert of a trailer theft event. Refer to **Theft Systems Description and Operation** for more information on the content theft deterrent system.

Trailer Brakes (JL1)

The vehicle is equipped with the following trailer braking components:

- K160 Brake System Control Module
- K67 Trailer Brake Control Module
- S76 Trailer Brake Control Switch
- Trailer Brake Driver Information Center Display

Trailer Brake Circuits

- Circuit 2223 is the trailer brake apply signal circuit. The K160 Brake System Control Module receives vehicle braking force data and/or data from the application of the manual trailer brake slide lever. The brake system control module responds by applying the appropriate amount of pulse width modulated (PWM) voltage based on the amount of trailer brake application desired. The K67 Trailer Brake Control Module responds to the signal circuit

by applying the appropriate amount of PWM voltage to the trailer auxiliary control circuit 47.

- Circuit 2224 is the trailer brake enable signal circuit. The K160 Brake System Control Module applies voltage to the enable circuit anytime a LIN data communication fault is not present, a trailer is connected, and the vehicle brakes are being applied. The enable circuit must have voltage applied to it before the K67 Trailer Brake Control Module applies the appropriate amount of pulse width modulated (PWM) voltage to the trailer auxiliary control circuit 47.
- Circuit 2733 is the brake system control module LIN bus 2 circuit. The K160 Brake System Control Module, K67 Trailer Brake Control Module, and the S76 Trailer Brake Control Switch all communicate through the brake system control module LIN bus 2 circuit. If the LIN bus has a fault on the circuit, trailer braking will be disabled until the fault is repaired.
- Circuit 47 is the trailer auxiliary control circuit. The K67 Trailer Brake Control Module responds to signal circuit 2223 and enable circuit 2224 by applying the appropriate amount of PWM voltage to the trailer auxiliary control circuit. A properly functioning trailer will apply the appropriate amount of braking force to the brakes of the trailer.

The Trailer Brake Control System is compatible with two types of Trailer Brake Systems as listed below:

1. **Electric Brakes** A controlled electrical output signal energizes an electric-magnet/lever arm assembly that directly actuates the brake mechanism. The GDS name for this system is "Electromagnetic Brakes".
2. **Electric Over Hydraulic Brakes** A controlled electrical output signal energizes a remote, trailer mounted hydraulic pump to build brake pressure in a closed hydraulic system on the trailer. The

hydraulic fluid pressure actuates the brake mechanism. The GDS name for this system is “Electrohydraulic Brakes”.

Trailer Brake Output Versus Trailer Brake Type

- The trailer brake system characterizes the trailer brakes as either Electric Brake or Electric Over Hydraulic Brake automatically. This characterization may be affected by the number, type, and age of the trailer brake magnets, as well as any other devices installed on the trailer brakes (i.e. adapters for Electric Over Hydraulic brake functionality).
- The trailer brake system is fully operational with either characterization.
- Sliding the manual trailer brake apply lever will produce output at zero speed for either characterization.

The user gain allows the driver to adjust the amount of trailer brake output to match the trailer load and road surface. The controller determines the desired trailer brake output and provides a control signal to the K67 Trailer Brake Control Module (TBPM). The K67 Trailer Brake Control Module amplifies the signal and provides the output required to activate the Electric or Electric Over Hydraulic trailer brakes.

The trailer brake control can support up to a maximum of four axles with electric trailer brakes (8 brake magnets).

Connecting a trailer that is not compatible with the trailer brake system may result in reduced or complete loss of trailer braking. There may be an increase in stopping distance or trailer instability which could result in personal injury or damage to the vehicle, trailer or other property. An aftermarket controller may be available for use with incompatible trailer brake systems.

To determine the type of brakes on your trailer and the availability of controllers, check with your trailer manufacturer or dealer. Do not power up an aftermarket controller with the factory brake controller at the same time.

Trailer Brake Control Panel

The S76 Trailer Brake Control Switch contains the trailer gain and manual apply switches. It is located in the vehicle center stack. Refer to the owner's manual for more information on the location. The control panel and switches allows you to adjust the amount of output, referred to as trailer gain, available to the Electric or Electric Over Hydraulic brakes. It also allows you to manually apply the trailer brakes. The trailer brake control switch is used along with the trailer brake display page on the driver information center to adjust and display power output to the trailer brakes.

Manual Trailer Brake Apply

The manual trailer brake apply lever is located on the S76 Trailer Brake Control Switch and is used to apply the trailer's Electric or Electric Over Hydraulic brakes independent of the vehicle's brakes. This lever is used in the trailer gain adjustment procedure to properly adjust the power output to the trailer brakes.

Sliding the lever will apply only the trailer brakes. The power output to the trailer is indicated in the trailer brake display page in the Driver Information Center (DIC). If the vehicle's service brakes are applied while using the manual trailer brake apply lever, the trailer brake control output power will be the greater of the two.

The trailer and the vehicle's brake lamps will come on when either the vehicle's braking or manual trailer brakes are applied.

Trailer Brake Gain Adjustment

Trailer gain should be set for a specific trailering condition and must be adjusted any time vehicle loading, trailer loading or road surface conditions change. It is important to re-adjust trailer gain any time the tow vehicle, trailer loading or road surface conditions change or if you notice trailer wheel lock-up at any time while you are towing.

Setting the trailer gain properly is needed for the best trailer stopping performance. A trailer that is over-gained may result in locked trailer brakes. A trailer that is under-gained may result in not enough trailer braking. Both of these conditions may result in poor stopping and stability of the vehicle and trailer.

Trailer Gain Adjustment Procedure

- Adjust trailer gain in 0.5 step increments up to 10 gain setting by using the gain adjustment +/- buttons on the trailer brake control panel switch. Pressing and holding a gain button will cause the trailer gain to continuously increment or decrement. To turn the output to the trailer off, set the gain to zero.
- Drive the tow vehicle and trailer combination on a level surface representative of the towing condition and free of traffic at approximately 32–40 km/h (20–25 mph) and fully apply the manual trailer brake apply lever mechanism located on the trailer brake control panel switch. Adjusting the trailer gain at slower speeds may result in an incorrect gain setting.
- Adjust the trailer gain to just below the threshold of trailer wheel lock-up. Trailer wheel lock-up may not occur if towing a heavily loaded trailer. In this case, adjust the trailer gain to the highest allowable setting for the towing condition.

Trailer Brake Gain and Output Display

This display menu can be accessed by scrolling through the DIC menu, or any time the trailer gain +/- button is depressed, or the manual trailer brake apply lever is actuated. The trailer output is displayed from 0 to full output and indicates the output power provided to the trailer brakes, relative to the gain setting.

After the electrical connection is made to a trailer equipped with electric brakes or electric over hydraulic brakes, the TRAILER CONNECTED message will be displayed momentarily on the DIC. The Trailer Brake Display Page can be selected on the DIC showing TRAILER GAIN and OUTPUT, after all vehicle related service messages are acknowledged by the driver. Depending on which instrument panel cluster is in the vehicle, the DIC may display dashed lines, a greyed out display, or it may be blank signifying a disconnected trailer or a trailer brake fault condition.

Tow/Haul Mode

Tow/Haul mode is selected through the Ride Control Switch for hauling heavy loads to provide increased performance and vehicle control. Tow/Haul Mode adjusts the transmission shift pattern, steering, and Electronic Stability Control (ESC) performance.

If the vehicle is turned off with Tow/Haul mode active and then restarted within four hours or less Tow/Haul will remain active. Otherwise, the vehicle will start in Normal mode.

If equipped with a diesel engine, exhaust braking is automatically activated when Tow/Haul mode is selected. The system will command down shifts to reduce vehicle speed when the brake is applied. The normal tow/haul shift pattern will return once the vehicle is on a low grade or when the accelerator pedal is pressed.

Trailer Brake Driver Information Center Indicators and Messages

Trailer Brake Detection

The K67 Trailer Brake Control Module constantly monitors the trailer auxiliary control circuit from Terminal C at the X88B Tow Vehicle electrical Receptacle. When a trailer is connected with trailer brakes, the K67 Trailer Brake Control Module senses the connection and alerts the driver with a Trailer Connected message. If the K67 Trailer Brake Control Module senses a fault, or the trailer becomes disconnected, the vehicle will alert the driver with a Check Trailer Wiring message.

The following indicators are used to inform the driver of several different conditions:

Trailer Connected

This message will be briefly displayed when a trailer with Electric or Electric Over Hydraulic brakes is first

connected to the vehicle. This message will automatically turn off in about ten seconds. The driver can also acknowledge this message before it automatically turns off.

Check Trailer Wiring

This message will be displayed if:

- The system detects that a trailer with Electric or Electric Over Hydraulic brakes is connected to the vehicle and then the trailer harness becomes disconnected from the vehicle.
- The trailer connection is recognized initially and then a disconnect occurs while the vehicle is stationary. This message will automatically turn off in about thirty seconds. This message will also turn off if the driver selects to turn this message off or if the trailer harness is reconnected.
- A disconnect of the trailer wiring harness occurs while the vehicle is moving. The Check Trailer Wiring message will continue until the ignition is turned off. The message will also turn off if the driver selects to turn this message off or if the trailer harness is re-connected.
- There is an electrical fault in the wiring to the electric trailer brakes. The Check Trailer Wiring message will continue as long as there is an electrical fault in the trailer wiring. This message will also turn off if the driver acknowledges this message off.
- A poor connection at the 7-way connector may cause the Check Trailer Wiring message. Some aftermarket 7-way trailer side connector adapters or plugs may cause deformation or excessive wear to the vehicle's trailer terminals. It is recommended that you use an OEM or Pollak heavy duty 7-way trailer side connector adapter.

Service Trailer Brake System

This message will be displayed when there is a problem with the trailer brake control system. The trailer brake system may not be fully functional, or may not be functioning at all. The trailer brake system is designed to provide trailer braking, if possible, even when faults prevent it from being fully functional. This reduced functionality includes:

1. Providing trailer braking when the master cylinder pressure or brake pedal switch are faulted.
2. Providing trailer braking when hill start assist and trailer sway control communication is faulted.
3. Providing trailer braking when certain manual trailer brake apply lever faults are present.

Trailer Tire Pressure Monitoring

Special Tools

- EL-46079/J-46079
Tire Pressure Monitor Diagnostic Tool
- EL-50448
Tire Pressure Monitor Sensor Activation Tool
- EL-52641 Trailer Presence Simulator Tool

For equivalent regional tools, refer to **Special Tools**.

The Trailer Tire Pressure Monitor System is designed to monitor the pressure of the trailer tires, and warn the driver when a low pressure condition exists. Four Trailer Tire Pressure Monitor System sensors may be provided in the vehicle's glove box as an accessory when equipped. The system can accommodate a trailer with up to (6) tires if additional sensors are purchased from the dealership. Also, the system can be paired with up to (5) individual trailers. The sensors must be mounted onto each tire and wheel assembly, and the sensors must be learned by the vehicle by following the learning procedure as shown in the Trailing App section of this manual. For sensor installation assistance, please contact your trailer service center or tire service center. The Trailer Tire Pressure Monitor System sensors monitor the air pressure in the trailer tires and transmit the trailer tire pressure readings to a receiver located in the vehicle. The trailer tire pressure sensors can transmit up to 23 feet (7 meters) from the hitch receiver of the vehicle. The tire pressure values can be viewed in the trailing app in the vehicle's center stack.

Trailing Diagnostic Tools

In some situations when diagnosing trailer tire pressure monitoring, trailer lighting, or integrated trailer brakes, it may be necessary to connect the vehicle to a trailer to confirm proper operation. Performing this activity may prove difficult in the service environment since trailers are not often available for diagnostic use, may have existing electrical issues outside of the issues a technician is attempting to diagnose, or simply may be too unwieldy to connect for diagnosis.

With all this in mind, it may be helpful to build or create a tool that can be plugged into the vehicle's trailer connector and simulate a connected trailer. This tool would include park lamps, stop lamps, and a reverse lamp for lighting and trailer tire pressure monitoring diagnosis. It can be expanded to include trailer brake magnets to diagnose integrated trailer brake concerns. Also, an additional lamp can be included to diagnose the B+ circuit to the trailer.

Trailer issues are NOT covered under warranty, but these tools may be used to verify the vehicle is functioning properly and to help the customer understand and correct any trailer related issues if they so choose.

Available Trailer Presence Simulator Tool

Illustration	Tool Number/Description
	EL-52641 Trailer Presence Simulator Tool

Simulated Trailer Lighting

Creating a tool to simulate a connected trailer can be used to diagnose issues with trailer lighting, trailer brake (if equipped), the Trailing App (if equipped), and trailer tire pressure monitoring system (if equipped).

If the vehicle is equipped with a K68 Trailer Lamp Control Module (U1D/UET), the module monitors the current on the lighting circuits to determine a trailer has been connected. The Trailer Lamp Control Module pulses current on the trailer lighting circuits every 42 minutes to monitor for a connected trailer. If a current draw greater than 55mA is detected, the Trailer Lamp Control Module recognizes this as a connected trailer. This will enable any trailer lighting controlled by the Trailer Lamp Control Module. The Center Stack Module will also use this trailer detection as a cue to enable the Trailing App and trailer tire pressure monitoring functions.

Creating a Simulated Trailer Lighting Tool

Parts needed:

- 7-way RV trailer connector Qty: 1

Note: The combination trailer stop/turn, and backup lamps must draw at least 55mA of total current to be detected as a trailer. Some LED combination lamps will not draw enough current. If an LED combination lamp is used, make sure it draws at least 55mA. A load resistor can be added to the circuit if necessary to obtain the correct load.

- Combination trailer park/stop/turn lamp (greater than 55mA drawn when on) Qty: 2
- Reverse lamp Qty: 1

- 12 gauge wire and terminals/connectors Qty: As needed
 - 18 gauge wire and terminals/connectors Qty: As needed
 - Mounting board Qty: 1
1. Connect a 12 gauge wire to the ground terminal of the 7-way trailer connector and the ground circuit of each combination trailer park/stop/turn lamp and the reverse lamp in parallel.
 2. Connect an 18 gauge wire between the park lamp terminal of the 7-way trailer connector and the park lamp circuit of each combination trailer park/stop/turn lamp in parallel.
 3. Connect an 18 gauge wire between the left turn/stop lamp terminal of the 7-way trailer connector and the turn/stop lamp circuit of left trailer park/stop/turn lamp.
 4. Connect an 18 gauge wire between the right turn/stop lamp terminal of the 7-way trailer connector and the turn/stop lamp circuit of right trailer park/stop/turn lamp.
 5. Connect an 18 gauge wire between the reverse lamp terminal of the 7-way trailer connector and the reverse lamp.

Note: A combination trailer lighting and trailer brake tool can be created on the same mounting board.

6. Mount the left combination trailer park/stop/turn lamp, right combination trailer park/stop/turn lamp, and reverse lamp to the mounting board.
7. Plug the 7-way RV trailer connector to the vehicle and verify functionality.

Simulated Trailer Brakes

Creating a tool to simulate trailer brakes can be used to diagnose trailer brake issues.

The trailer brake control system is compatible with two types of trailer brake systems: electromagnetic or electro-over hydraulic trailer brakes. The Brake System Control Module must determine which type of brakes the trailer is equipped with so the system can output correctly for the trailer's brake system. Because the Brake System Control Module has to determine the type of trailer brake system that is being used, it can be sensitive to a variety of trailer wiring issues.

The Trailer Brake Control Module continuously sends a test pulse out on the trailer brake control circuit (circuit 47) to determine if a trailer with trailer brakes has been connected. How the pulse reacts when a trailer is connected is how the Trailer Brake Control Module determines which type of braking system the trailer is equipped with.

Even after the system detects the trailer, Trailer Brake Control Module will continue to send this test pulse on the trailer brake control circuit, which now is monitoring both the truck and trailer circuitry. The trailer brake control circuit continues to be monitored for any faults so the driver can be notified of any issues that may occur within the truck or trailer, as well as, to determine when the trailer is disconnected from the truck.

Creating a Simulated Trailer Brake Tool

Parts needed:

- 7-way RV trailer connector Qty: 1
- Electric trailer brake magnets Qty: 2, 4, 6, or 8
- Reverse lamp Qty: 1
- Mounting board Qty: 1
- 12 gauge wire and terminals/connectors Qty: As needed

1. Connect a 12 gauge wire to the ground terminal of the 7-way trailer connector.
2. Connect a 12 gauge wire to the brake controller output terminal of the 7-way trailer connector.

Note: The trailer brake magnets must be connected in parallel. Connecting in series will create an excessive current draw and disable the trailer brake system.

3. Connect the trailer brake magnets to the 12 gauge wires from the 7-way trailer connector in parallel.

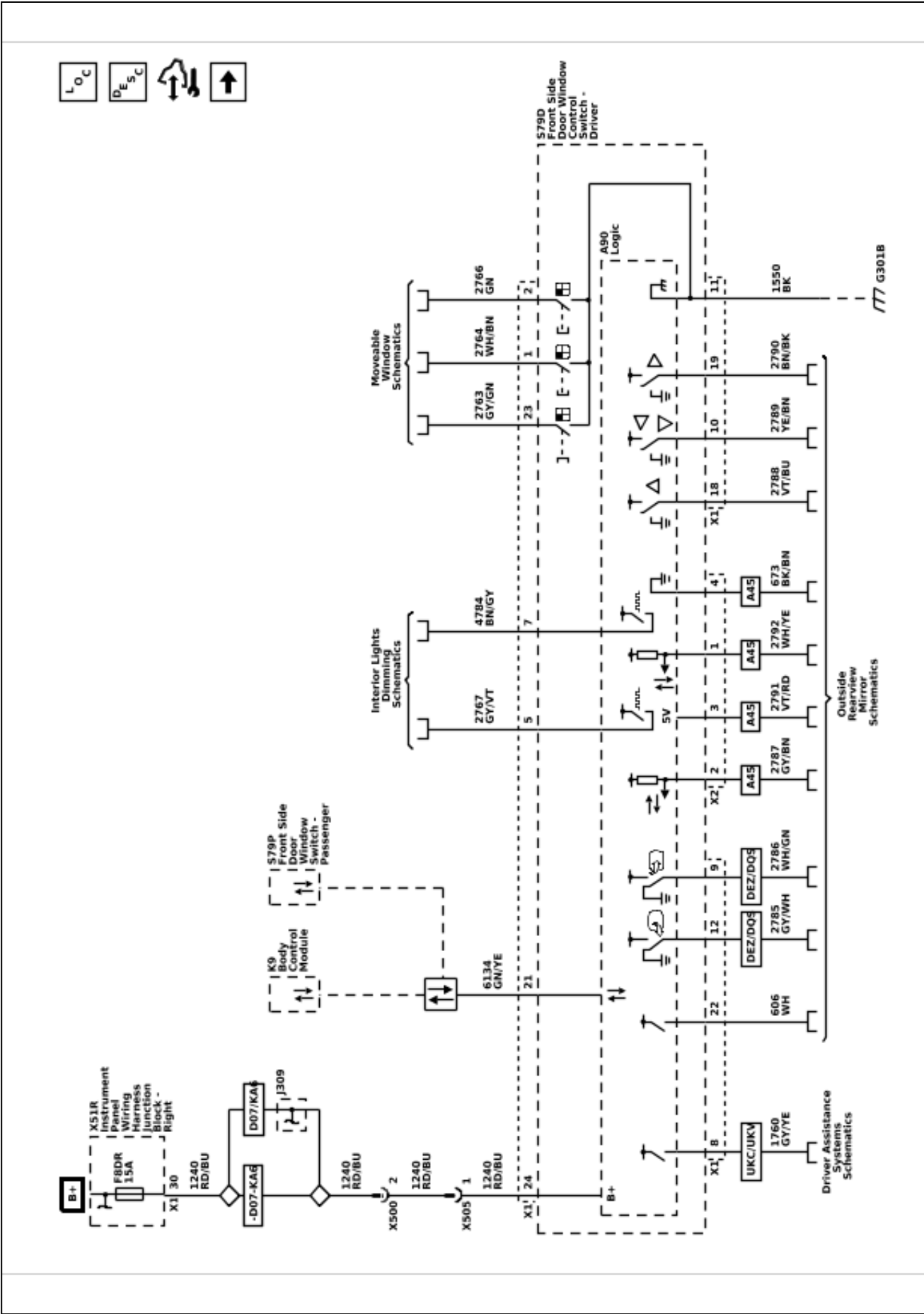
Note: A combination trailer lighting and trailer brake tool can be created on the same mounting board.

4. Mount the trailer brake magnets to the mounting board.
5. Plug the 7-way RV trailer connector to the vehicle and verify functionality.

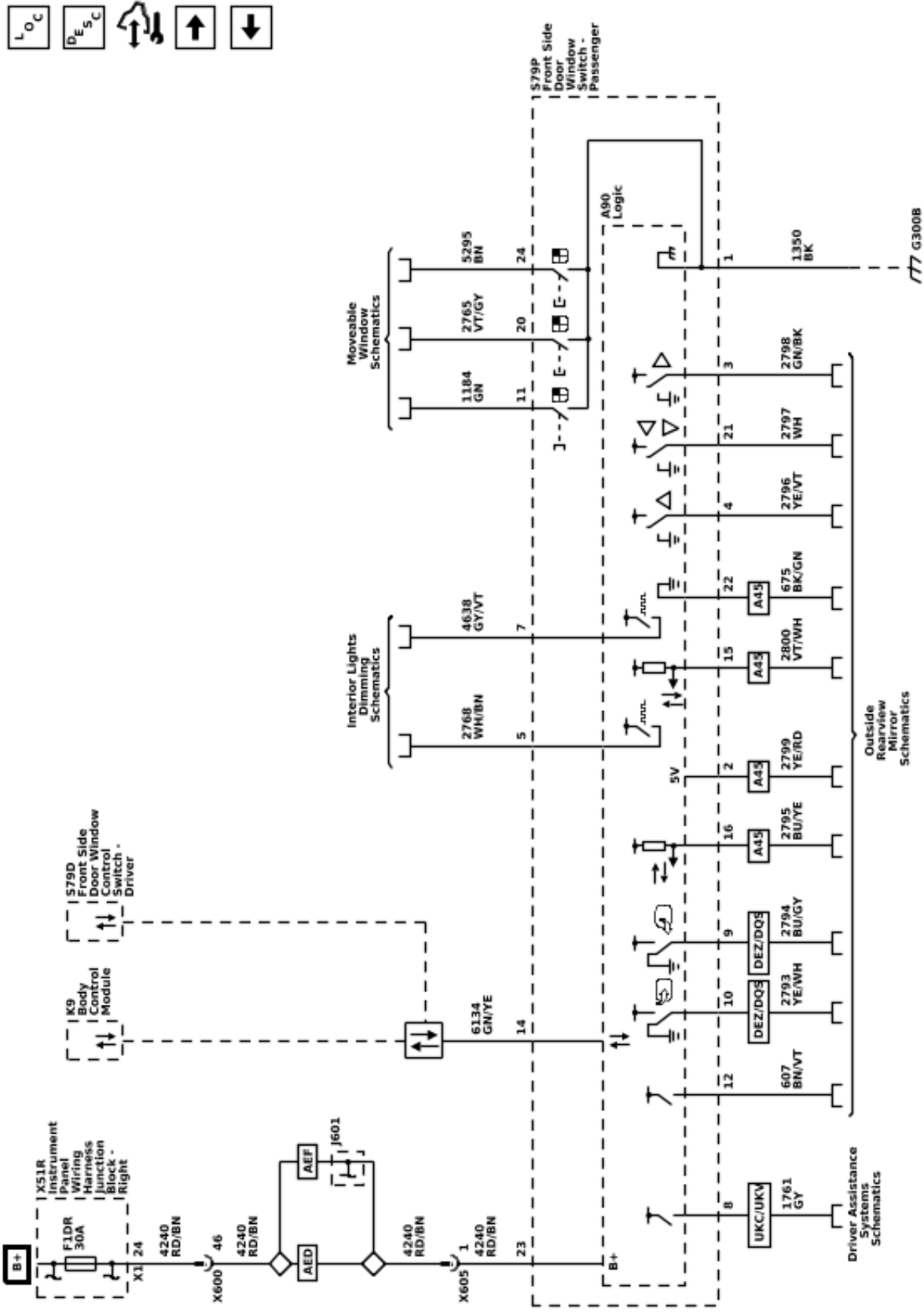
Vehicle Access

Schematic and Routing Diagrams

Door Lock/Indicator Schematics (Driver Door Switch Panel Control Module Power, Ground, Serial Data, and Subsystem References)

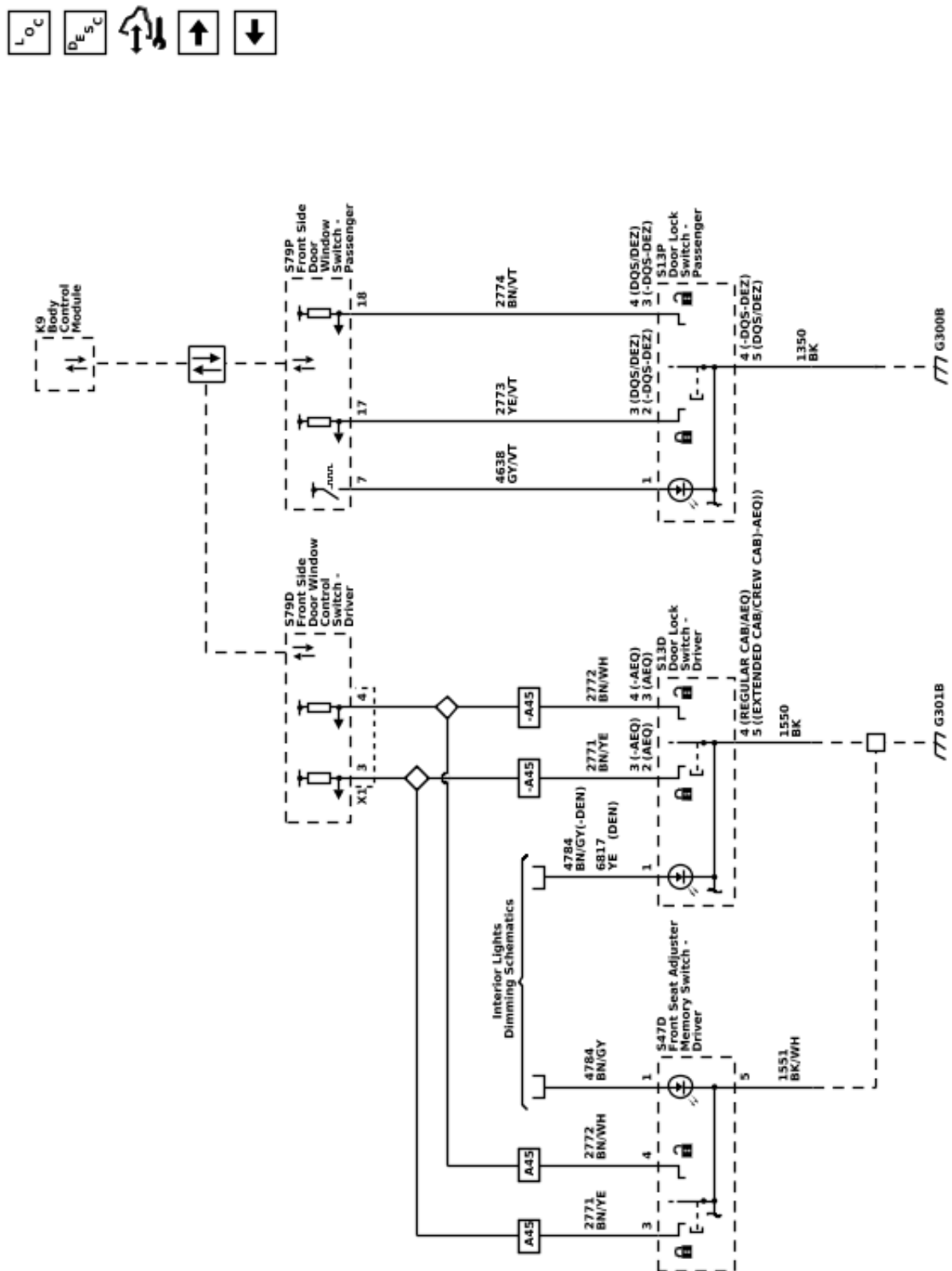


Door Lock/Indicator Schematics (Passenger Door Switch Panel Control Module Power, Ground, Serial Data, and Subsystem References)

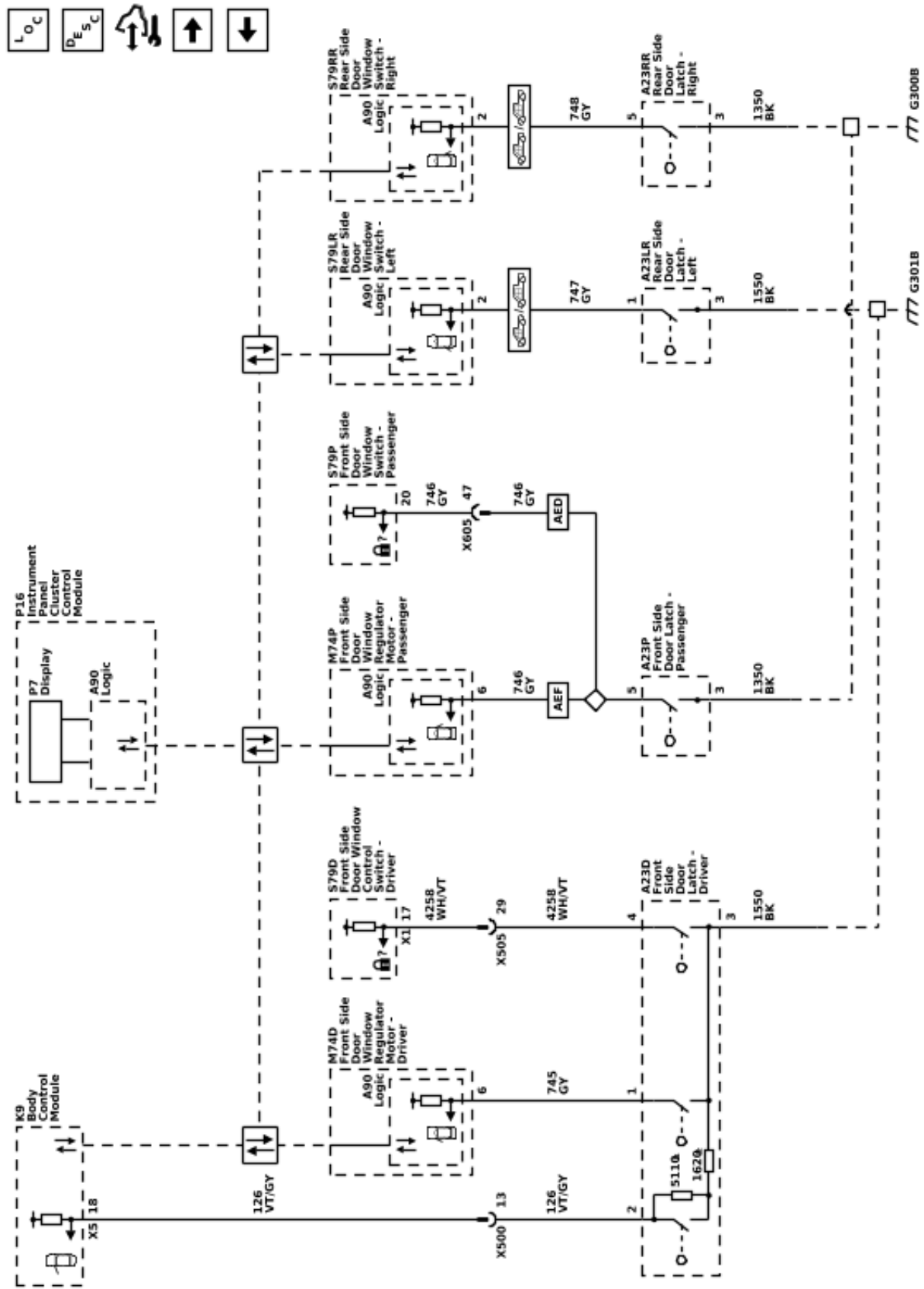


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Door Lock/Indicator Schematics (Door Lock Switches and Indicators)

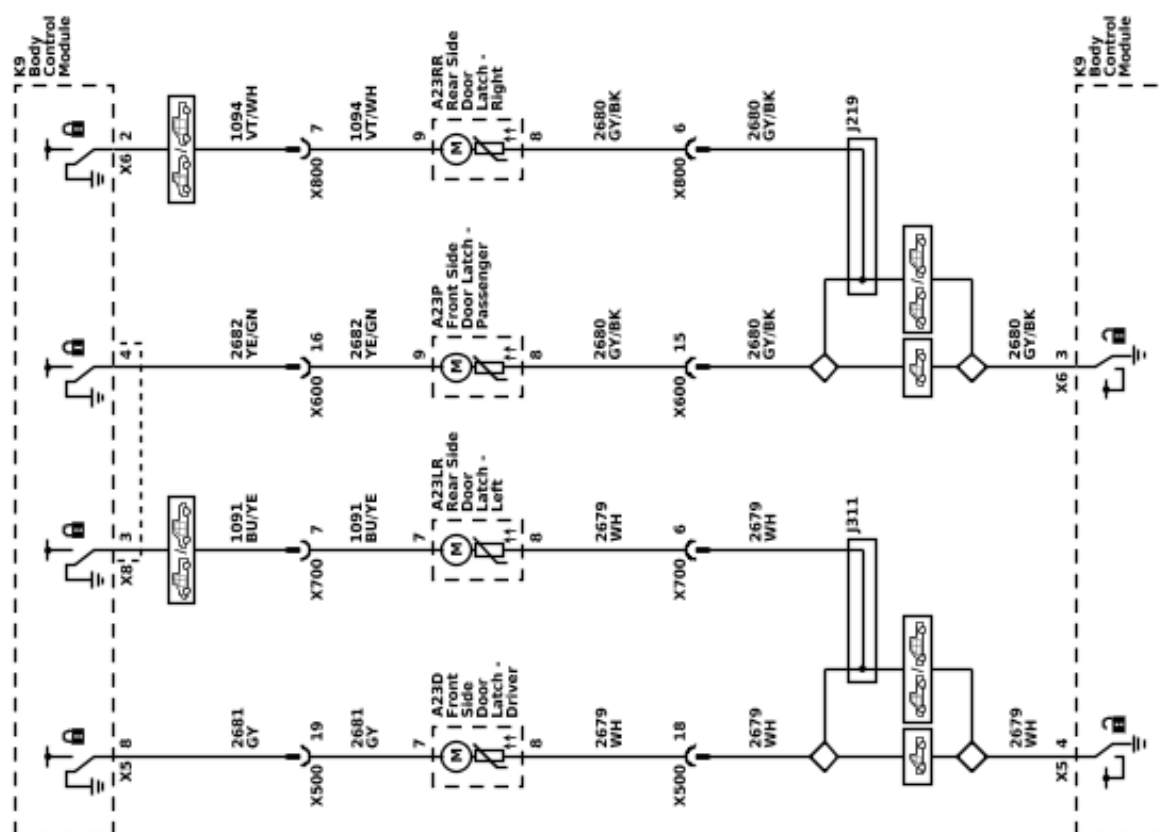


Door Lock/Indicator Schematics (Ajar Switches, Lock Status and Child Lock Status)

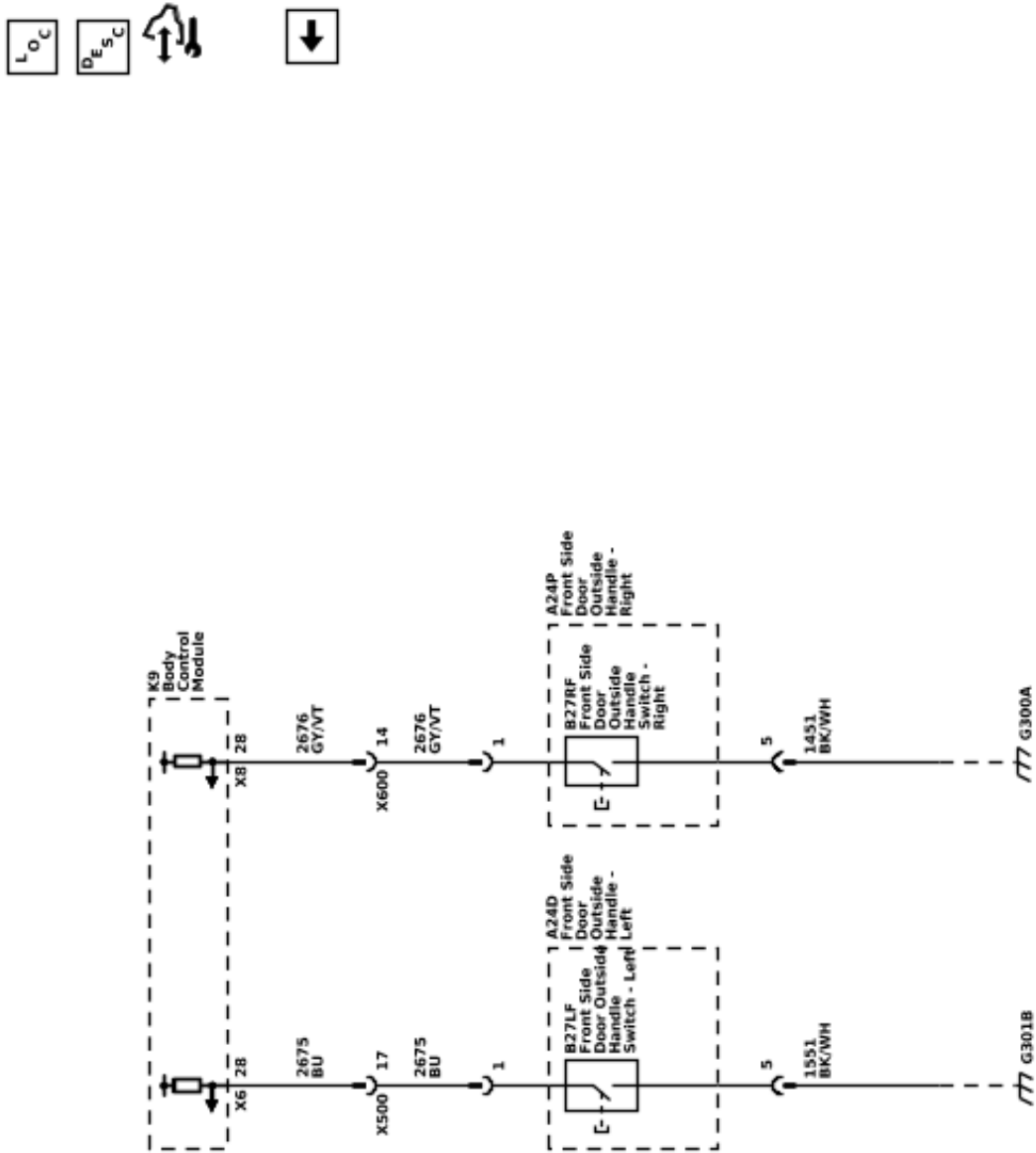


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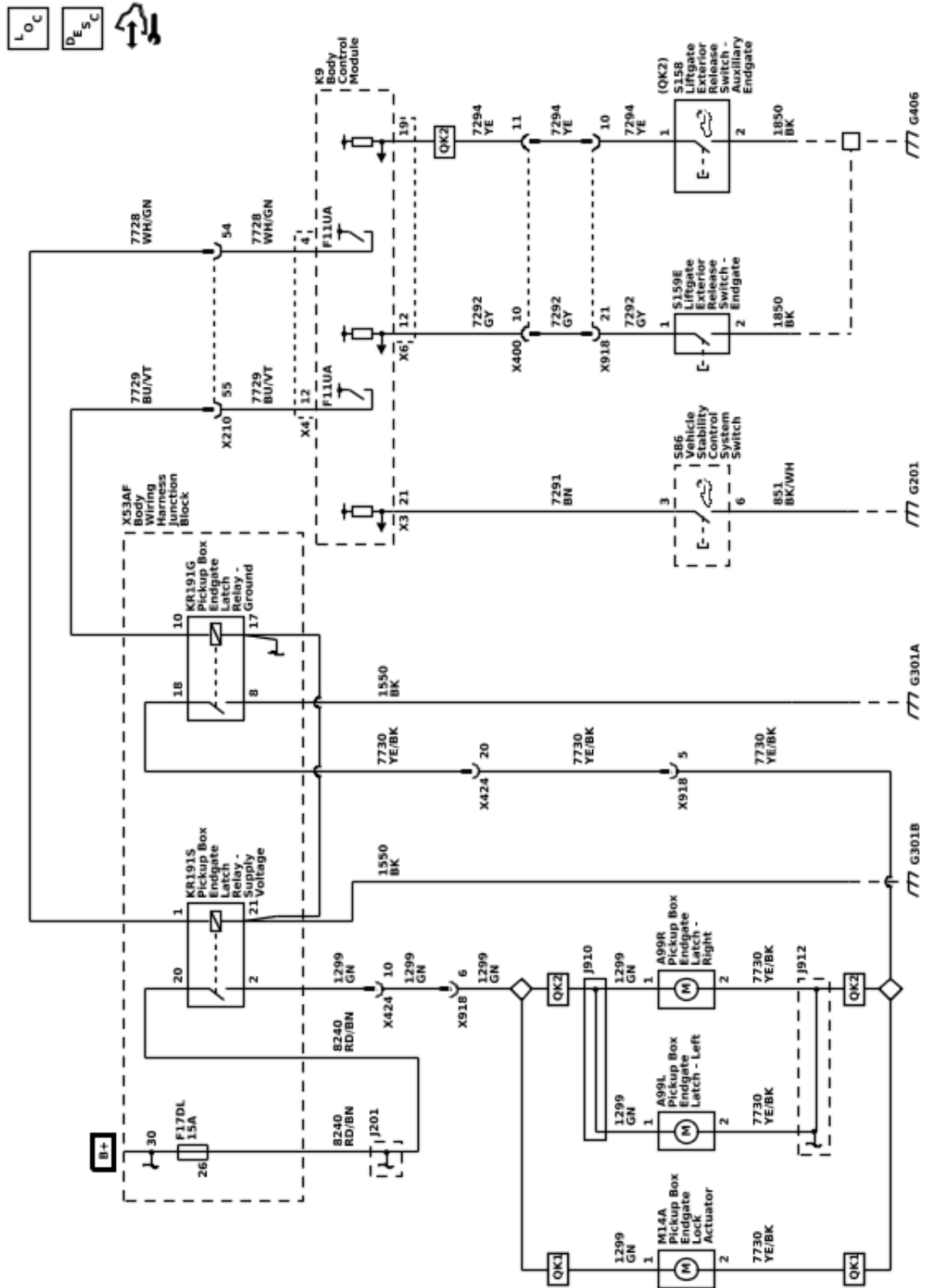
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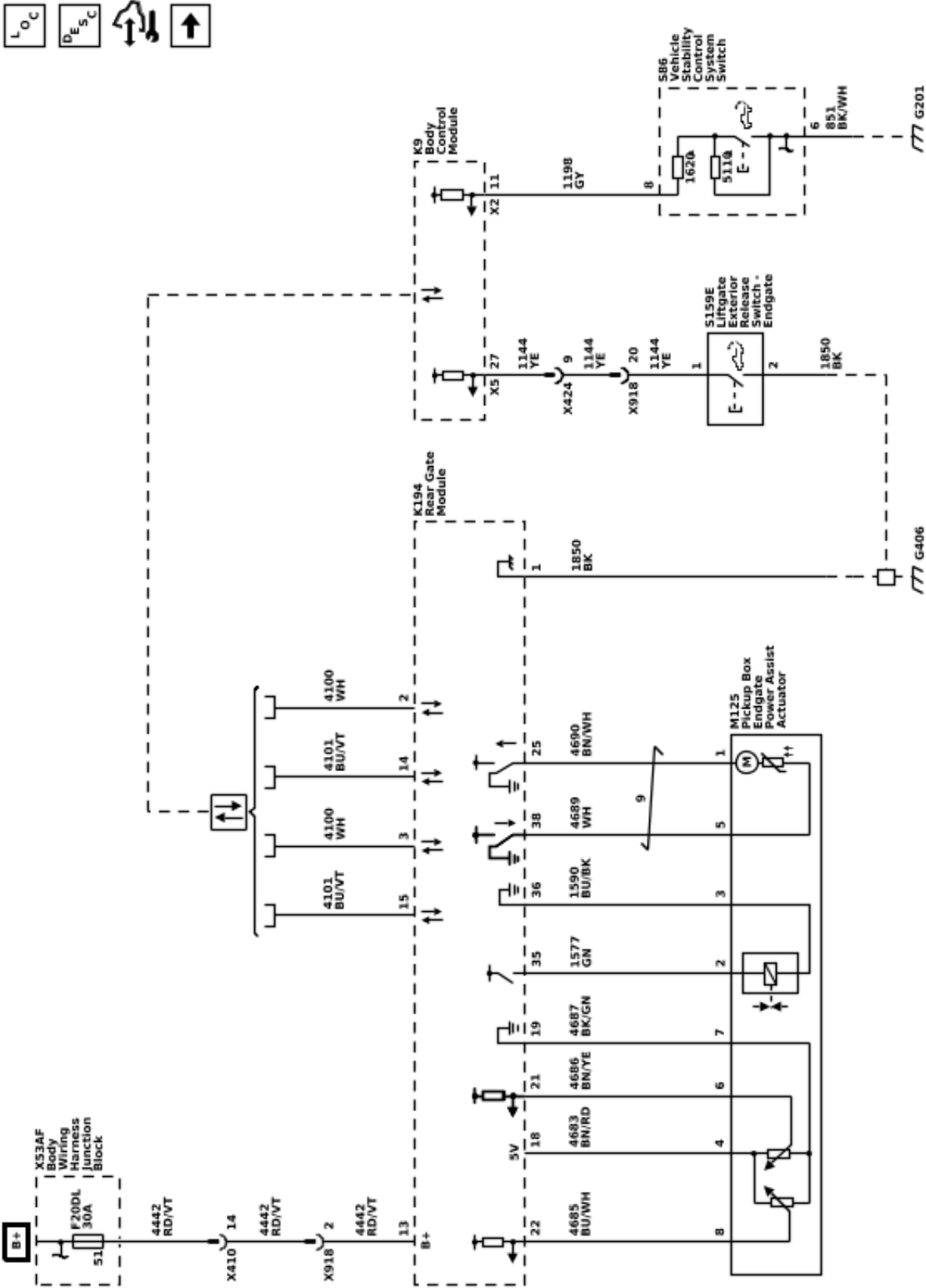
Door Lock/Indicator Schematics (Door Handle Switches)



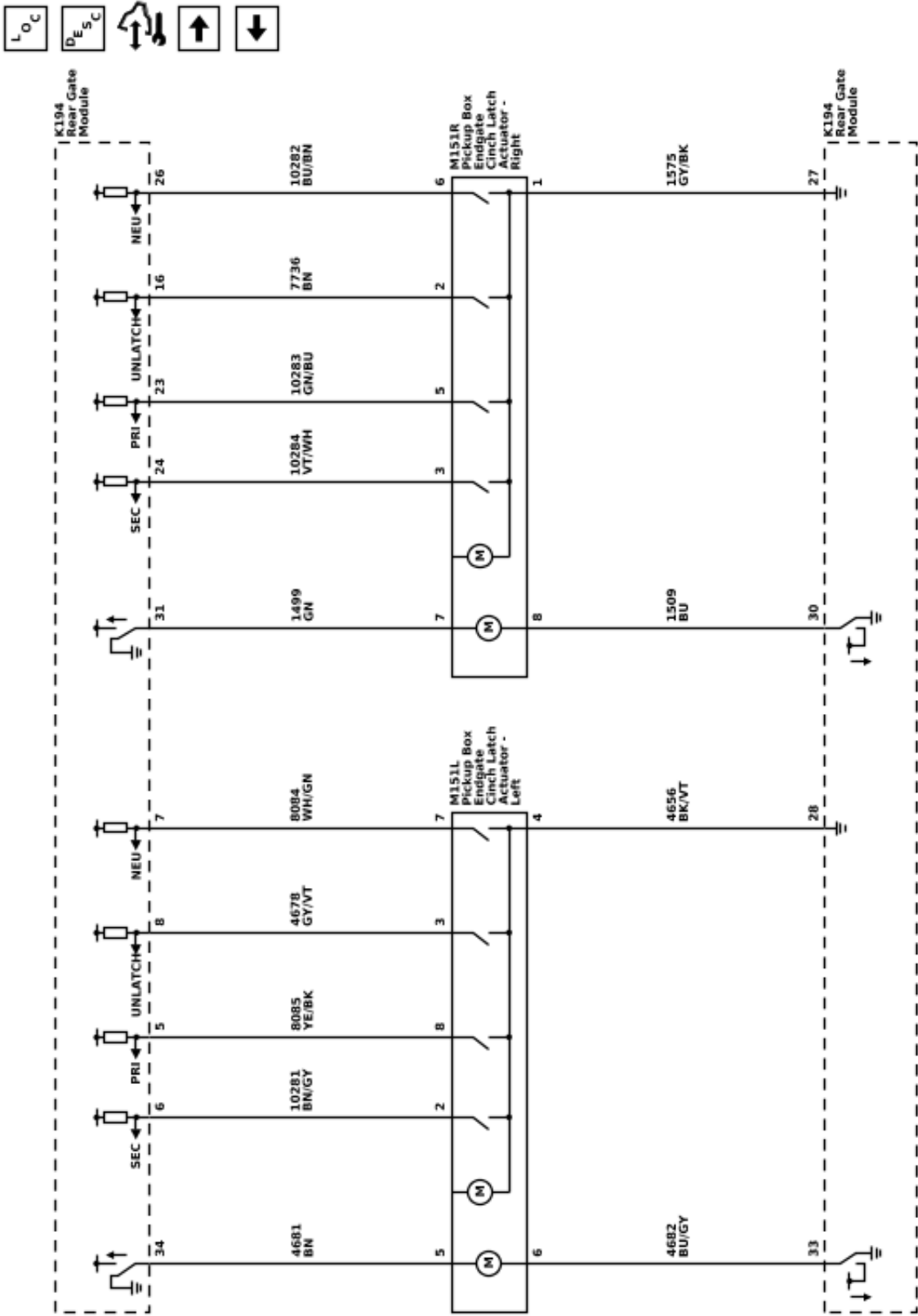
2025 - Silverado 1500 Electrical Body Builder Manual



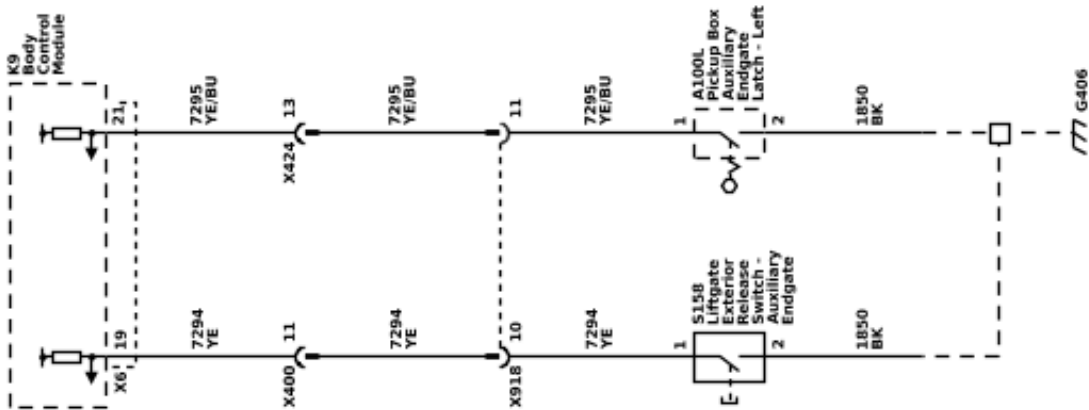
Endgate Schematics (Power Endgate Controls (QT6))



Endgate Schematics (Power Endgate Latches (QT6))



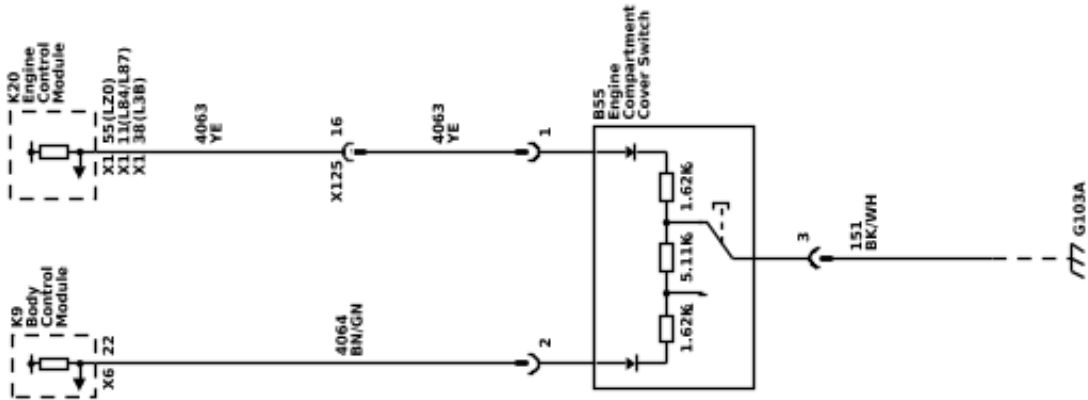
Endgate Schematics (Auxiliary Endgate Latch Controls and Switches (QK2 & QT5))



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Hood Latch Schematics (Engine Compartment Cover Switch)



Description and Operation

Door Ajar Indicator Description and Operation

Door Ajar Indicator System Components

The door ajar indicator system consists of the following components:

- Body control module (BCM)
- Instrument cluster
- Driver door latch
- Passenger door latch
- Left rear door latch
- Right rear door latch
- Driver window motor
- Passenger window motor
- Left rear side door window switch
- Right rear side door window switch

Driver and Passenger Door Ajar

The window motor supplies a 12V signal to the door ajar switch within the door latch, when a door is open the door ajar switch closes pulling the 12V signal low. When the window motor detects the drop in the 12V signal circuit, it will then communicate this status to the BCM via local interconnect network (LIN) bus. The BCM communicates with the instrument cluster via serial data message. The instrument cluster, upon receipt of this serial data message, will illuminate the door ajar indicator and also send a serial data message to the radio to activate the door ajar audible warning when the vehicle speed is greater than 8 km/h (5 mph).

Rear Doors Ajar

The rear side door window switches each provide a 12V signal to their respective door ajar switch signal circuits. The rear door ajar switches are integral to each rear door latch assembly. When a rear door is opened, the normally open door ajar switch closes. With the door ajar switch closed, ground is provided to the door ajar switch signal circuit and the voltage within the signal circuit drops. The rear side door window switches will detect the voltage drop and will send a serial data message to the body control module which will then send a message to the instrument cluster to command the door ajar message

Endgate Description and Operation (QT6)

System Description

The power endgate system consists of the following components:

- Rear gate module
- Pickup box endgate power assist actuator

- Pickup box endgate position sensor (part of the power assist actuator)
- Interior pickup box endgate control switch (Part of the Instrument panel multifunction switch)
- Exterior pickup box endgate control switch
- Right pickup box endgate latch assembly
- Left pickup box endgate latch assembly
- Keyless entry transmitter
- Remote control door lock receiver

Operation

The power endgate can be commanded to power open by the following methods:

- Pressing the interior pickup box endgate control switch on the center stack
- Pressing the touch pad on the exterior endgate handle (vehicle doors must be unlocked)
- Pressing the endgate button on the RKE transmitter twice and holding until the endgate latches release

The power endgate can be commanded to power close by the following methods:

- Pressing and holding the interior pickup box endgate control switch on the center stack until the endgate is fully closed and latched
- Pressing the touch pad on the exterior endgate handle
- Pressing the endgate button on the RKE transmitter twice and holding until the endgate is fully closed and latched
- Lifting the tailgate at least 10 cm (4 in) above the full close position and holding momentarily

The vehicle must be in Park for any of the power tailgate functions to operate.

The rear gate module will respond to a request by commanding the left and right pickup box endgate latches to release the endgate and activate the pickup box endgate power assist actuator and lower the endgate or to raise and cinch the endgate closed.

Power Latch

The rear gate module continuously monitors power endgate operation and calculates its location and direction of travel from an endgate position sensor (part of the power assist actuator). One input returns the position of the endgate relative to the x-axis and y-axis. The rear gate module then uses these 2 inputs together to calculate its angle relative to the endgate.

The left and right pickup box endgate latches are bi-directional motors and latch or unlatch operation is the result of the direction of the motor rotation. The rear gate module controls the left and right pickup box endgate latches through the control circuits by supplying power and ground in the appropriate polarity. The motor control circuits are monitored by the rear gate module prior to activation for a high or low condition and during motor operation for an insufficient current flow condition. The ratchet, pawl and sector switches are part of the left and right pickup box endgate latches and are used by the rear gate module to determine the state of the latch during the process of latching or unlatching. Each of the latch switch signal circuits are supplied battery voltage and monitored within the rear gate module. The latch switches share a common low reference circuit from the rear gate module and when the switch contacts close the signal circuit goes low and the rear gate module determines the switch to be active. The ratchet, pawl and unlatch switches are inactive when the endgate is closed and will transition to active as the endgate is opened. The sector switch will be inactive when the endgate is closed, during opening of the endgate the sector switch will change to active and back to inactive when the endgate is in the fully open position.

The exterior pickup box endgate control switch signal circuit is supplied battery voltage by the rear gate module. When the switch is pressed the contacts close and the signal circuit goes low, the rear gate module will detect the voltage drop and will command the endgate to release and lower or to power raise the endgate to the closed position.

For vehicles without the optional passive keyless entry, when the exterior pickup box endgate control switch is pressed, the rear gate module will check the status of the vehicle door locks by sending a serial data message to the body control module requesting the door lock status. If the vehicle doors are locked, the rear gate module will ignore the signal from the exterior pickup box endgate control switch. If the vehicle doors are unlocked, the rear gate module will permit the endgate to unlatch and power open when the exterior pickup box endgate control switch is pressed.

For vehicles with the optional passive keyless entry system, the keyless entry control module monitors the proximity of the keyless entry transmitter. If the exterior pickup box endgate control switch is pressed and the keyless entry transmitter is within range, the keyless entry control module will send a serial data message to the rear gate module indicating the presence of the keyless entry transmitter and the rear gate module will permit the endgate to unlatch and power open. If the doors are locked and the keyless entry transmitter is not within range, the rear gate module will ignore the signal from the exterior pickup box endgate control switch.

Manual Endgate Operation

The endgate can be manually closed from the full-open position when the endgate is lifted in a continuous motion. If the endgate motion is stopped between the full-open and half-closed positions, the lift to close feature can engage and power close the endgate. If the touch pad is pressed during power operation, the endgate will stop and allow manual operation. The endgate must be held after stopping, or it will continue to open.

Tailgate Release Unavailable Driver Information Center Message

Power Endgate Functions Disabled Without Setting DTCs

The driver information center displays Tailgate Release Unavailable when a thermal inhibit occurs in the latch or drive unit or the position count is out of range.

The power endgate functions will be restored by performing the following actions:

- Closing the endgate which will reset the position counts
- Closing the endgate and removing the F20DL 30A fuse for greater than 5 minutes

Power Endgate Functions Disabled With DTCs Current

The driver information center displays Tailgate Release Unavailable when the rear gate module control module detects a malfunction in the power endgate system and the system is disabled.

Endgate Description and Operation (QT5 Without MultiPro Tailgate)

Endgate Release System Components

- Body control module (BCM)
- Pickup box endgate control switch-interior (Part of the instrument panel multifunction switch)
- Pickup box endgate control switch-exterior
- Pickup box endgate unlatch actuator
- Pickup box endgate unlatch relay

Endgate Release Operation (Without MultiPro Tailgate Option)

Interior Endgate Release Switch

The body control module monitors the voltage level of the endgate unlatch signal circuit so that when the switch is pressed contacts within the switch closes providing a ground path for the endgate unlatch signal circuit, the voltage within the signal circuit is pulled low, the body control module will detect the voltage drop and if the passenger doors are unlocked, will energize the pickup box endgate unlatch relay.

Exterior Endgate Release Switch

The body control module monitors the status of the vehicle doors, if the doors are locked the body control module will ignore the request from the exterior pickup box endgate control switch. If the passenger doors have been commanded to unlock, pressing the exterior pickup box endgate control switch will close contacts within the switch and provide a ground path for the endgate unlatch signal circuit, the body control module will detect the voltage drop and will energize the pickup box endgate unlatch relay.

If the vehicle has been equipped with the passive keyless entry system and the keyless entry transmitter is within 3 feet (1 meter) of the endgate, pressing the exterior pickup box endgate control switch will also function in the same manner but without unlocking the passenger doors. Refer to *Keyless Entry System Description and Operation 7-17* for more information on the passive keyless entry system.

Pickup Box Endgate Unlatch actuator

When body control module receives a endgate release command from the exterior pickup box endgate control switch, the body control module applies brief pulse of voltage to the pickup box endgate unlatch relay control circuit, which energizes the coil side of the relay. The switch side of the pickup box endgate unlatch relay then momentarily closes, supplying a brief pulse of battery positive voltage to the pickup box endgate unlatch actuator. The pickup box endgate unlatch actuator is continuously grounded and when it receives the voltage pulse, it will become energized and the latch will activate releasing the endgate so that it may be manually lowered to an open position.

Endgate Description and Operation (QT5 With MultiPro Tailgate)

Endgate Release System Components

- Body control module (BCM)
- Pickup box endgate control switch-interior (Part of the instrument panel multifunction switch)
- Pickup box endgate control switch-exterior
- Left pickup box endgate latch
- Right pickup box endgate latch
- Left pickup box auxiliary endgate latch
- Right pickup box auxiliary endgate latch
- Left pickup box endgate latch relay
- Right pickup box endgate latch relay
- Left pickup box auxiliary endgate latch relay
- Right pickup box auxiliary endgate latch relay

Endgate Release Operation (With MultiPro Tailgate Option)

Interior Endgate Release Switch

The body control module monitors the voltage level of the endgate unlatch signal circuit so that when the switch is pressed contacts within the switch closes providing a ground path for the endgate unlatch signal circuit, the voltage within the signal circuit is pulled low, the body control module will detect the voltage drop and if the passenger doors are unlocked, will energize the left pickup box endgate latch relay and right pickup box endgate latch relay.

Exterior Endgate Release Switch

The body control module monitors the status of the vehicle doors, if the doors are locked the body control module will ignore the request from the exterior pickup box endgate control switch. If the passenger doors have been commanded to unlock, pressing the appropriate exterior pickup box endgate control switch will close contacts within the switch and provide a ground path for the major or minor endgate unlatch signal circuit, the body control module will detect the voltage drop and will energize the appropriate pickup box endgate latch relays.

If the vehicle has been equipped with the passive keyless entry system and the keyless entry transmitter is within 3 feet (1 meter) of the endgate, pressing the exterior pickup box endgate control switch will also function in the same manner but without unlocking the passenger doors. Refer to *Keyless Entry System Description and Operation 7-17* for more information on the passive keyless entry system.

Major Pickup Box Endgate

Note: The auxiliary pickup box endgate must be in the latched position before commanding the major pickup box endgate to release. The body control module will

disable the major pickup box endgate release function if the auxiliary pickup box endgate is open or ajar.

When body control module receives a major endgate release command from the exterior pickup box endgate control switch, the body control module applies brief pulse of voltage to the left and right pickup box endgate latch relay control circuits, which energizes the coil side of the relays. The switch side of the left and right pickup box endgate latch relay then momentarily closes, supplying a brief pulse of battery positive voltage to the left and right pickup box endgate latches. The left and right pickup box endgate latches will become energized and the latches will activate releasing the major endgate so that it may be manually lowered to an open position.

Minor Pickup Box Endgate

When body control module receives a major endgate release command from the exterior pickup box endgate control switch, the body control module applies brief pulse of voltage to the left and right pickup box auxiliary endgate latch relay control circuits, which energizes the coil side of the relays. The switch side of the left and right pickup box auxiliary endgate latch relay then momentarily closes, supplying a brief pulse of battery positive voltage to the left and right pickup box auxiliary endgate latches. The left and right pickup box auxiliary endgate latches will become energized and the latches will activate releasing the minor endgate so that it may be manually lowered to an open position.

Hood Ajar Indicator Description and Operation

Hood Ajar Switch

The body control module (BCM) applies approximately 5V to the hood ajar signal circuit and monitors the voltage to determine the position of the hood. The hood ajar switch contains a multiplexed resistor. When the hood is open, the switch is open and voltage remains high. When the hood is closed, the switch is closed and the voltage is pulled low.

The BCM uses the hood ajar switch as a content theft deterrent alarm trigger.

Hood Ajar Indicator/Message

When the hood is ajar, a message is displayed on the DIC or the hood ajar indicator will be illuminated.

Power Door Locks Description and Operation

Door Lock System Components

The power door lock system consists of the following components:

- Driver door lock switch
- Passenger door lock switch
- Left rear door lock switch

- Right rear door lock switch
- Driver front side door window control switch
- Passenger front side door window switch
- Driver front side door latch
- Passenger front side door latch
- Left rear side door latch
- Right rear side door latch
- Exterior door handle switches
- Body control module
- Lighting control module

Door Lock System Controls

The power door lock system can be controlled by any of the following:

- Power door lock switch activation
- Keyless entry lock or unlock command
- Delayed locking command
- Automatic door lock command
- When the OnStar® system is used to unlock the driver door

Door Lock and Unlock Operation

The driver or passenger front side door window control switch will monitor the voltage of their respective door lock switches, when the driver or passenger door lock switch is activated in the lock or unlock position the signal voltage will be pulled low, the corresponding front side door window control switch will detect the voltage drop in the signal circuit and will send a serial data message to the body control module requesting the door lock or unlock command.

The lighting control module will monitor the voltage of the left rear and right rear door lock switches, when the left rear or right rear door lock switch is activated in the lock or unlock position the signal voltage will be pulled low, the lighting control module will detect the voltage drop in the signal circuit and will send a serial data message to the body control module requesting the door lock or unlock command.

The body control module powers the reversible door latch actuators by providing battery positive voltage and ground to the appropriate lock and unlock control circuits of the door latches. Transitioning of the lock actuators to the lock or unlocked position depends upon which control circuits receive voltage and which control circuits receive ground. When the interior door lock switch is pressed, the body control module disables the functions of exterior door handle unlock switches preventing the unlatching of the vehicle doors until an the interior door unlock switch has been pressed or the appropriate button has been pressed on the keyless entry transmitter.

The body control module provides the driver and left rear door latches and fuel filler door lock actuator (If equipped with RPO N08) with the Unlatch Low Reference Circuit 1.

The body control module provides the passenger and right rear door latches and the liftgate latch (If equipped with RPO TB4) with the Unlatch Low Reference Circuit 2.

Each door latch, the fuel filler door lock actuator (If equipped with RPO N08), and the liftgate latch (If equipped with RPO TB4) is provided an Unlatch Control Circuit by the body control module.

When the drivers door is commanded to unlock the body control module will pull the Unlatch Low Reference Circuit 1 low and will pull the driver door and fuel filler lock actuator Unlatch/Unlock Control Circuits will be pulled high causing the driver door latch and fuel filler lock actuator to transition to the unlocked/unlatched state.

When all doors have been commanded to unlock the body control module will pull the Unlatch Low Reference Circuit 1 and Unlatch Low Reference Circuit 2 low and each door latch and the fuel filler lock actuator Unlatch/Unlock Control Circuits will be pulled high causing the doors and fuel filler lock actuator to transition to the unlocked/unlatched state.

When the TB4 liftgate is commanded to open the body control module, if the vehicle doors are unlocked, will pull the Unlatch Low Reference Circuit 2 low and the Rear Closure Unlatch Actuator Unlatch Control Circuit will be pulled high causing the TB4 liftgate Latch to activate and release the liftgate.

When the lock actuators are inactive the circuits are disconnected from power and ground and the circuits will have a floating voltage.

Passive Door Lock/Unlock Operation

The exterior door handle switch signal circuits provide inputs to the body control module when the exterior door handle switches are activated. These inputs allow the body control module to detect a door lock or a door unlock request. The body control module provides a 7 V signal to each exterior door handle switch via the door handle switch signal circuits. When a door handle switch is pressed, the switch closes and the voltage signal within the signal circuit is pulled to ground. The body control module will detect the voltage drop and a low frequency antenna will transmit a challenge to the keyless entry transmitter. If the challenge is met, the keyless entry transmitter will respond, and the body control module will command the door(s) to be locked or unlocked

Section 2

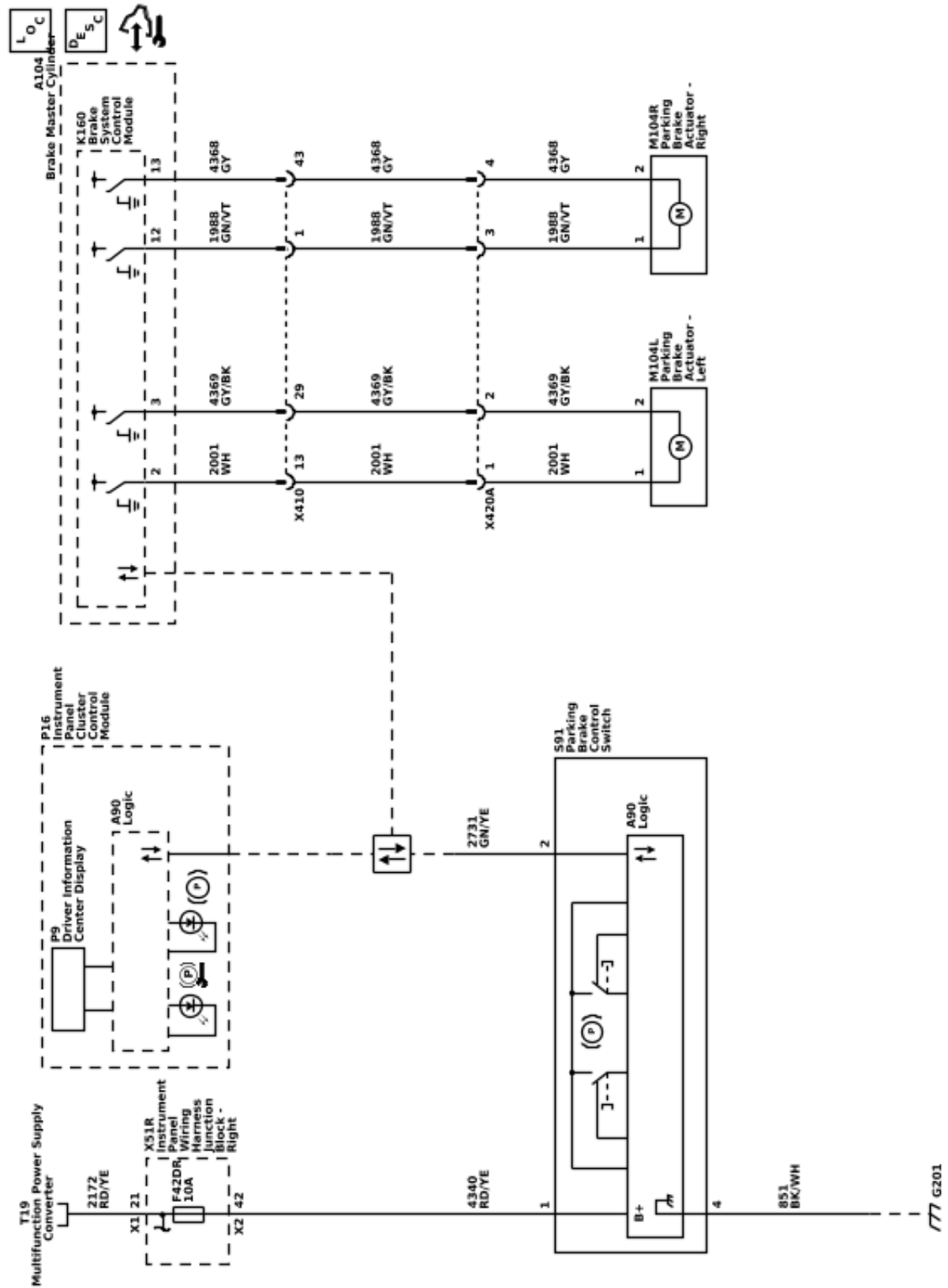
Brakes

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Brakes

Park Brake

Schematic and Routing Diagrams



Description and Operation

Electronic Parking Brake Description

Vehicles with the electric parking brake have a switch in the center console or on the dash, which takes the place of the manual parking brake system, the foot pedal and release handle. In case of insufficient electrical power, the electric parking brake cannot be applied or released.

Electronic Brake Control Module/Brake System Control Module

The parking brake function is integrated into the Electronic Brake Control Module/Brake System Control Module. The module contains the logic for applying and releasing the parking brake when commanded by the Park Brake Switch.

When the Park Brake Switch is pulled, a signal is sent to the Electronic Brake Control Module/Brake System Control Module which will supply 12 V to the apply control circuits and ground to the release control circuits which will cause the left and right park brake actuators to activate causing the park brakes to engage. When the Park Brake Switch is pressed, a signal is sent to the Electronic Brake Control Module/Brake System Control Module which will supply 12 V to the released control circuits and ground to the apply control circuits which will cause the left and right park brake actuators to activate causing the park brakes to release. In some vehicles, the Park Brake Switch is a push-button style switch. When the switch is pressed, the park brakes are commanded to either apply or release based off of their current position.

The Electronic Brake Control Module/Brake System Control Module will diagnose the park brake motor circuits to verify that they are functioning properly. The park brake motor circuits are used to command actuator motor operation, which will apply and release the parking brake. These circuits are used to activate the actuator, which applies or releases pressure on the caliper pistons, ultimately applying and releasing the park brake.

The Park Brake Motor Position Sensor is an internal sensor to the park brake actuator. This sensor is used to monitor the park brake motor position.

Electric Parking Brake Apply

The electric parking brake can be applied any time the vehicle is stopped or in motion. The electric parking brake is applied by momentarily operating the park brake control switch. The red park brake light will momentarily flash while the parking brake is being applied. Once fully applied, the red park brake light will turn on. If the electric parking brake is applied while the vehicle is in motion, the vehicle will decelerate as long as the switch is being operated. If the switch is operated until the vehicle comes to a stop, the park brake will remain applied.

If the red park brake light is flashing, the electric parking brake is only partially applied or released, or there is a problem with the electric parking brake. A DIC message will display.

The vehicle may automatically apply the electric parking brake in some situations when the vehicle is not moving. This is normal, and is done to periodically check the correct operation of the electric parking brake system.

Electric Parking Brake Release

To release the electric parking brake, turn the ignition switch to the ON or RUN position, apply, and hold the brake pedal, and push down momentarily on the park brake control switch. When the electric parking brake is released the red park brake light turns off.

Automatic Electric Parking Brake Release

The parking brake will automatically release if the vehicle is running, placed into gear, and an attempt is made to drive away. Avoid rapid acceleration when the parking brake is applied to preserve parking brake lining life.

Section 3

Driver Information and Entertainment

Image Display Cameras 3-2

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 Rearview Camera Full Display Mirror

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 Surround Vision Camera Description and

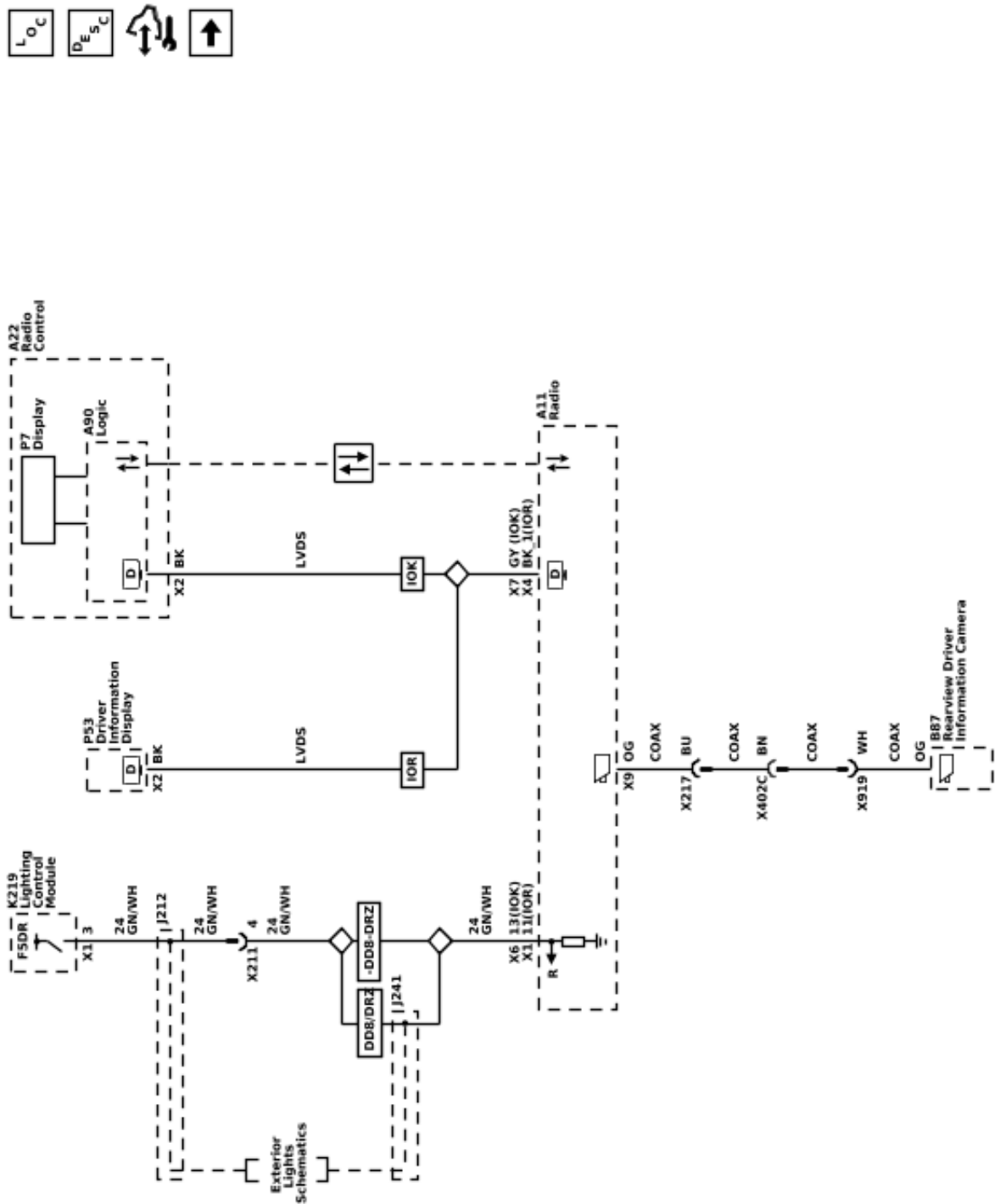
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Driver Information and Entertainment

Image Display Cameras

Schematic and Routing Diagrams

Image Display Camera Schematics (Rearview Driver Information Camera (UVB))



6548219

Image Display Camera Schematics (Inside Rearview Mirror Camera (DRZ))

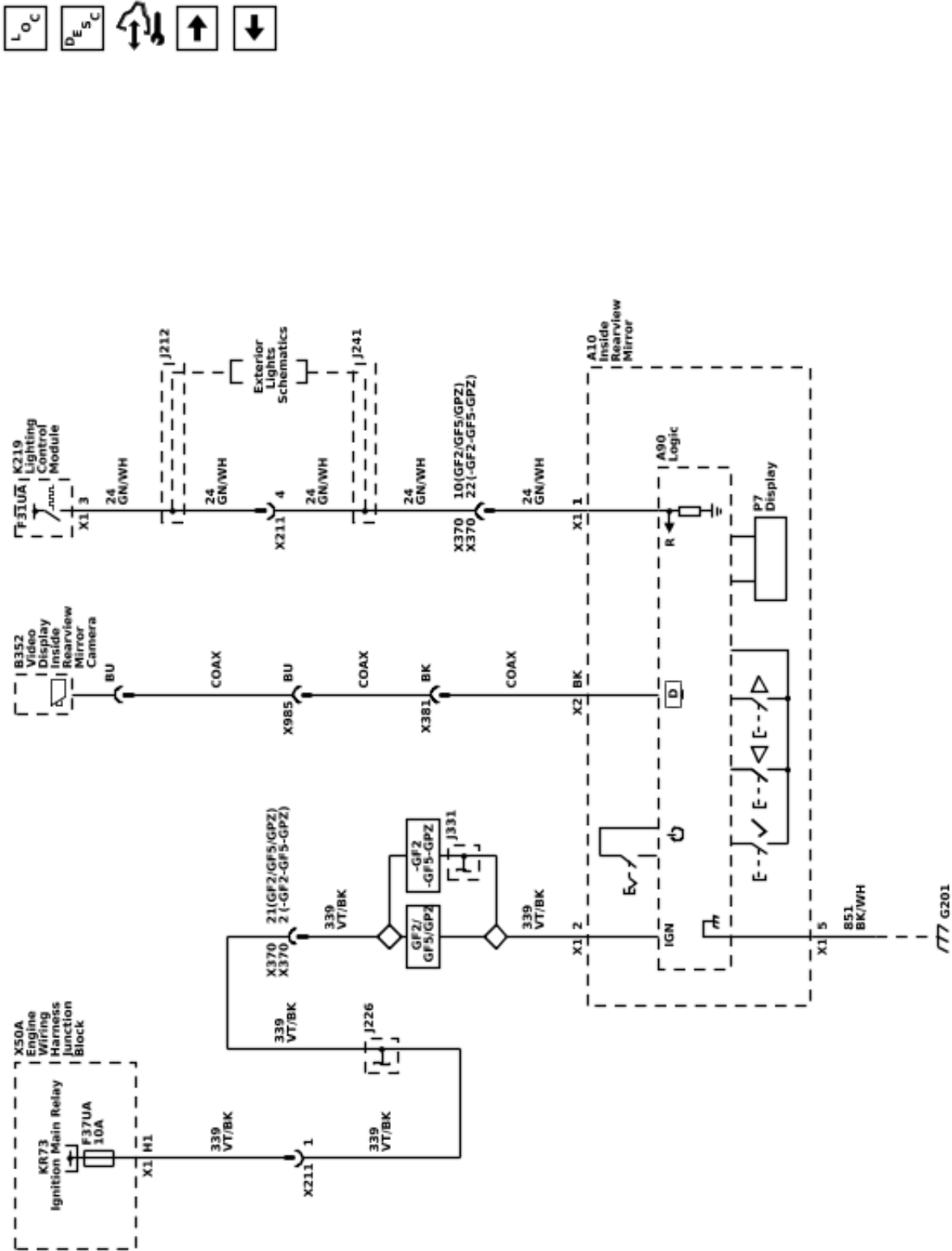
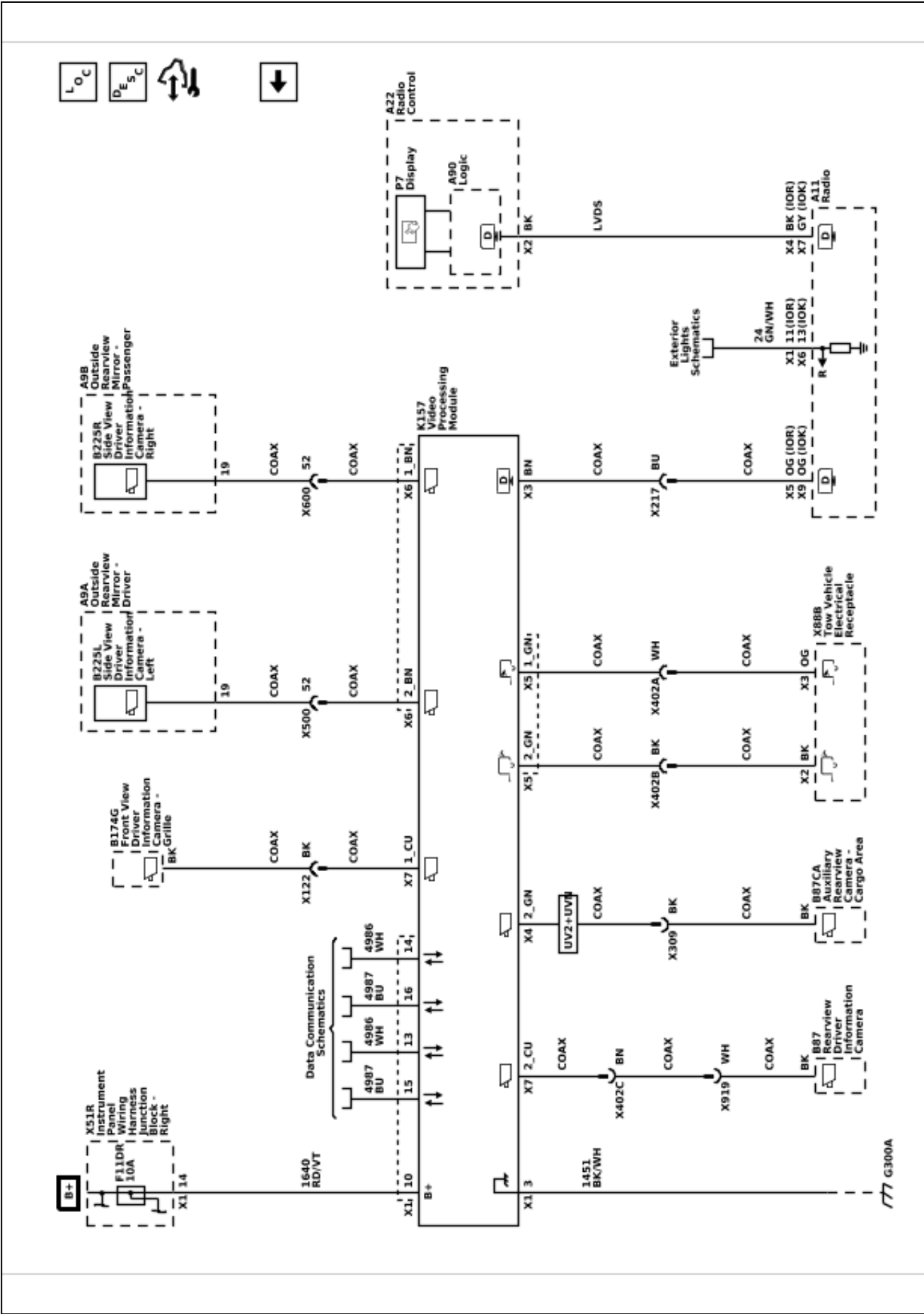


Image Display Camera Schematics (360 Degree Vision (UV2))



6548221

Description and Operation

Rearview Camera Full Display Mirror Description and Operation

If equipped, full display mirror provides a wider field of view than normally seen from the inside rearview mirror to assist when driving and changing lanes. When the tab under the inside rearview mirror is pulled rearward, a view of the area behind the vehicle displays on the mirror. The inside rearview camera full display mirror is connected to the outside rearview camera via a shielded coaxial cable.

When the tab under the inside rearview mirror is pulled rearward, a view of the area behind the vehicle displays on the mirror.

Adjust the rearview mirror for a clear view of the area behind the vehicle before turning on full display mirror. Use the three buttons on the bottom of the mirror to adjust the brightness, zoom, and tilt of the display. Make sure the light sensor is not covered when adjusting the brightness.

The inside rearview camera full display mirror may not work properly or display a clear image if:

- It is dark.
- The sun or the beam of headlamps are shining directly into the camera lens.
- Ice, snow, mud, or anything else builds up on the camera lens. Clean the lens, rinse it with water, and wipe it with a soft cloth.

When the mirror detects that the camera is not sending a valid video signal, it “blue screens” with a “no video” decal for 3 seconds, then reverts back to the mirror.

Rear Vision Camera Description and Operation

Rear Vision Camera System Operation

The rear vision camera system consists of a video camera located at the rear of the vehicle and the A11 Radio.

When the transmission is placed into REVERSE, a signal is sent to the A11 Radio indicating that camera operation is requested. The rearview camera sends video information to the A11 Radio through a coax cable. The coax cable also provides power from the A11 Radio to the rearview camera.

The following conditions may cause a degraded rear vision camera image:

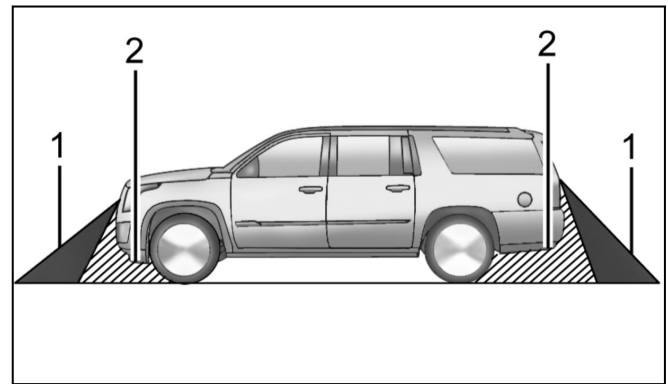
- Ice, snow, or mud has built up on the rear vision camera
- Dark conditions

- Extreme light conditions, such as glare from the sun or the headlights of another vehicle
- Damage to the rear of the vehicle
- Extreme high temperatures or extreme temperature changes

If a malfunction is detected in the system, SERVICE REAR VISION CAMERA may be displayed on the Info Display Module as an indicator to the customer that a problem exists that requires service.

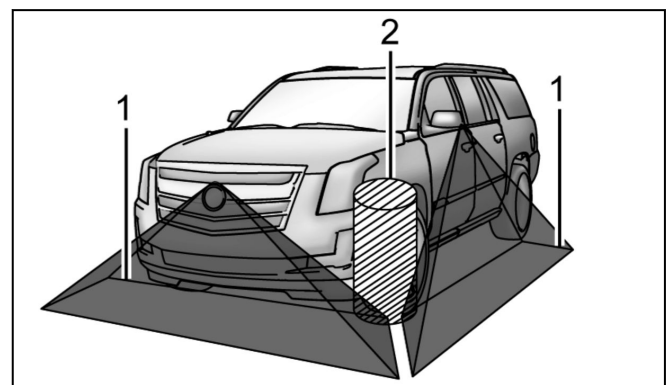
Surround Vision Camera Description and Operation

Warning: The Surround Vision cameras have blind spots and will not display all objects near the corners of the vehicle. Folding outside mirrors that are out of position may not display surround view correctly. Always check around the vehicle when parking or backing.



4291164

1. View displayed by the surround vision camera
2. Area not shown



4291749

1. View displayed by the surround vision camera
2. Area not shown

The surround vision camera system consists of the following components:

- B87 Rearview Camera
- B174G Frontview Camera – Grille

- K157 Video Processing Control Module
- A11 Radio **OR** K74 Human Machine Interface Module
- B225L Sideview Camera – Left
- B225R Sideview Camera – Right
- X20 Memory Card Receptacle (with XVR)

When the vehicle is traveling at speeds slower than 6 mph (10kph) the video processing control module will power up the cameras and send a video signal to the radio or human machine interface module.

The following conditions may cause a degraded surround vision camera image:

- Ice, snow, or mud has built up on the rear vision camera
- Dark conditions
- Extreme light conditions, such as glare from the sun or the headlights of another vehicle
- Damage to the rear of the vehicle
- Extreme high temperatures or extreme temperature changes

Surround Vision displays an overhead view of the area surrounding the vehicle, along with the front or rear camera views in the center stack. The front camera is in the grille or near the front emblem, the side cameras are on the bottom of the outside rearview mirrors, and the rear vision camera is above the license plate.

Note: Images from the Sideview Cameras are only displayed when both front doors are properly closed.

Features of the Surround Vision System

- Rear camera (B87 Rearview Camera) view alongside overhead view is displayed in reverse
- Front camera (B174G Frontview Camera – Grille) view alongside overhead view is displayed after shifting out of reverse to Neutral or Drive
- Will display front view when front park assist object is within trigger range calibration value (30 cm (12 in) in a forward gear
- Image is removed from display when vehicle speed exceeds speed calibration (10kph/6 mph) or button press / screen touch

System Operation

The video processing control module is connected to each camera via a shielded coaxial cable. The coaxial cable provides power for the camera and also carries the video image from the cameras to the video processing control module for processing. The video processing control module will then send the processed image output to infotainment system via another coaxial cable.

The video processing module receives various vehicle information (such as steering wheel angle, object detection, etc) from other sources such as parking assist modules and the Body Control Module via serial data. This information is used to produce the enhanced surround vision system images that include a warning triangle that may display if an object is detected nearby. This triangle changes from amber to red and increases in size as the object gets closer to the vehicle. Also, dynamic guidelines are displayed in Reverse to show the projected path of the vehicle based on steering wheel angle. Due to this use of vehicle information, any faults or DTCs in these related systems can prohibit proper surround vision operation.

If equipped, the video processing control module system may have a memory card receptacle (with XVR) located in the trunk. The memory card receptacle interfaces with the video processing control module via a USB cable. The memory card receptacle also receives fused battery voltage and ground from the video processing control module. The video processing control module uses the memory card as a mass storage device, similar to a USB storage device.

Section 4

Engine/Propulsion

**Starting, Charging, and Low Voltage
Energy Storage 4-2**

Schematic and Routing Diagrams 4-2

Starting and Charging Schematics 4-3

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Charging System Description and
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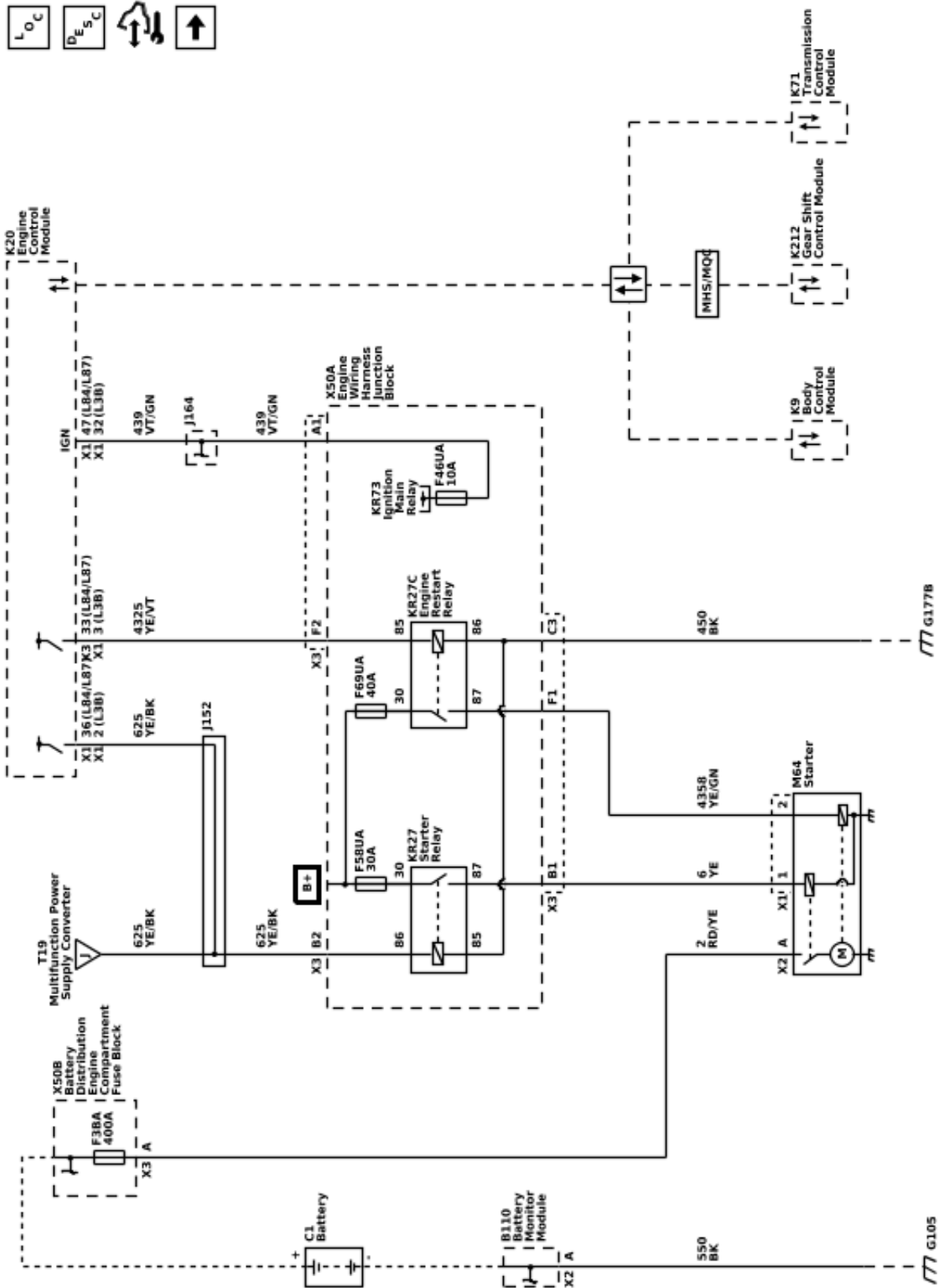
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Engine/Propulsion

Starting, Charging, and Low Voltage Energy Storage

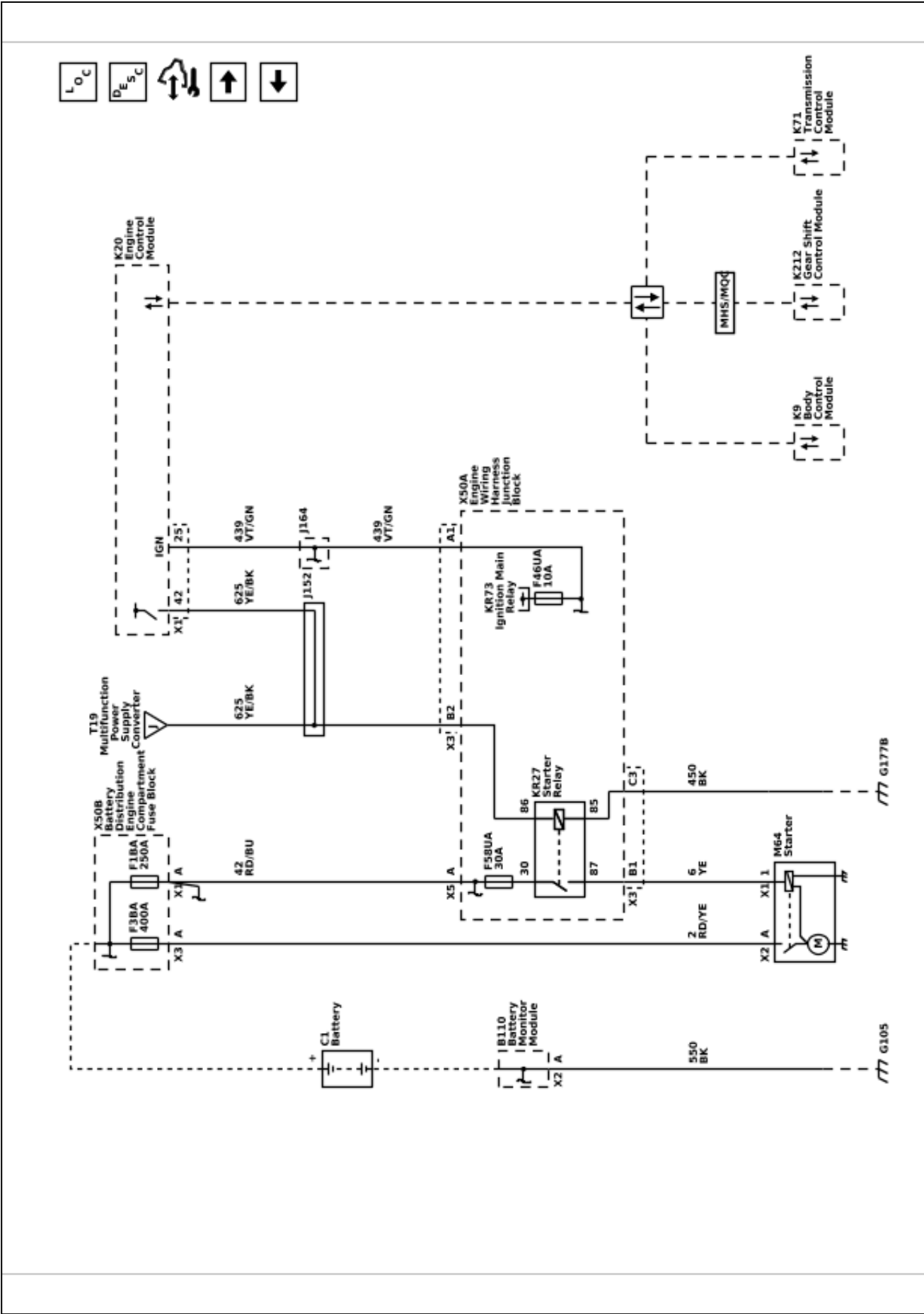
Schematic and Routing Diagrams

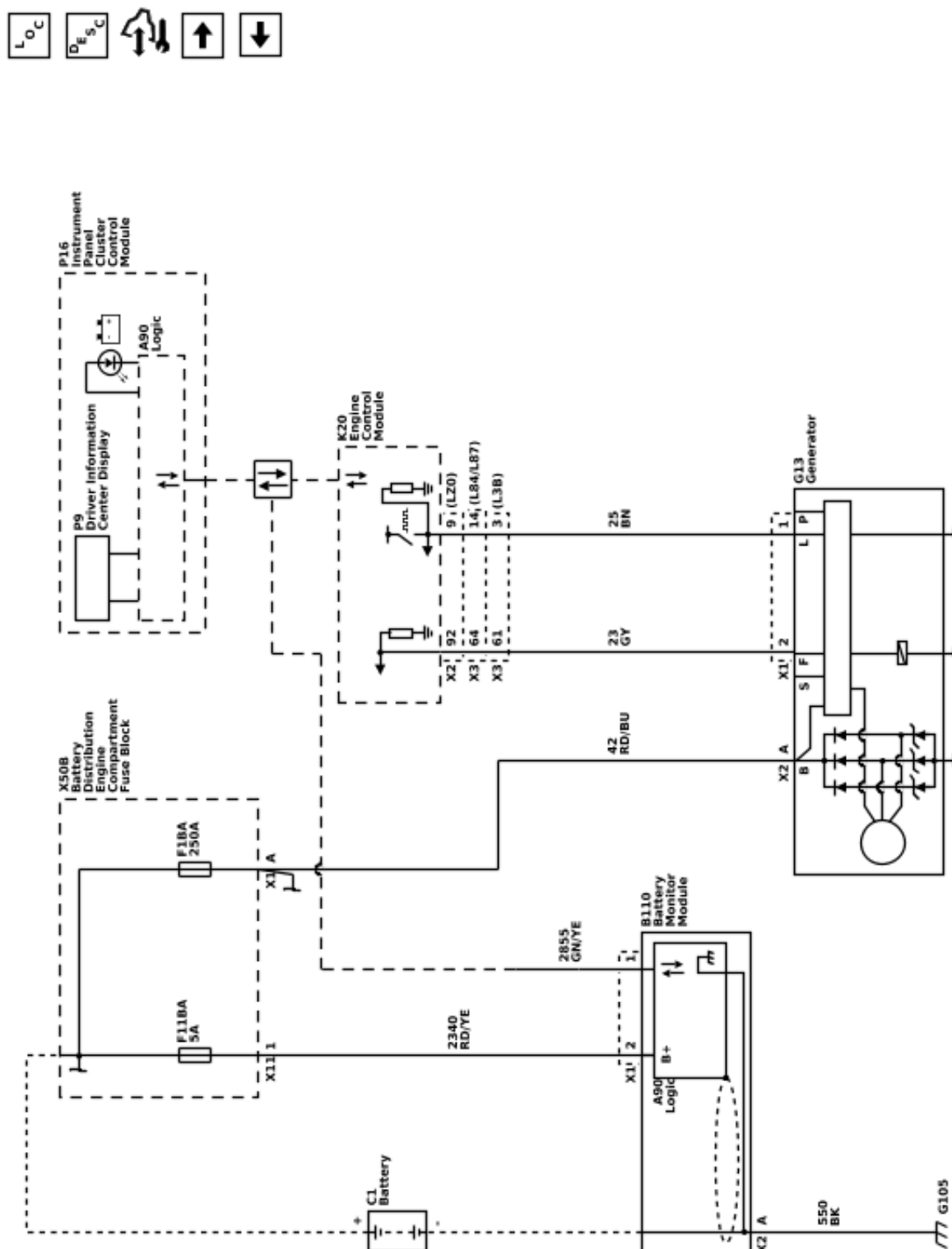
Starting and Charging Schematics (Starting (L3B / L84 / L87))



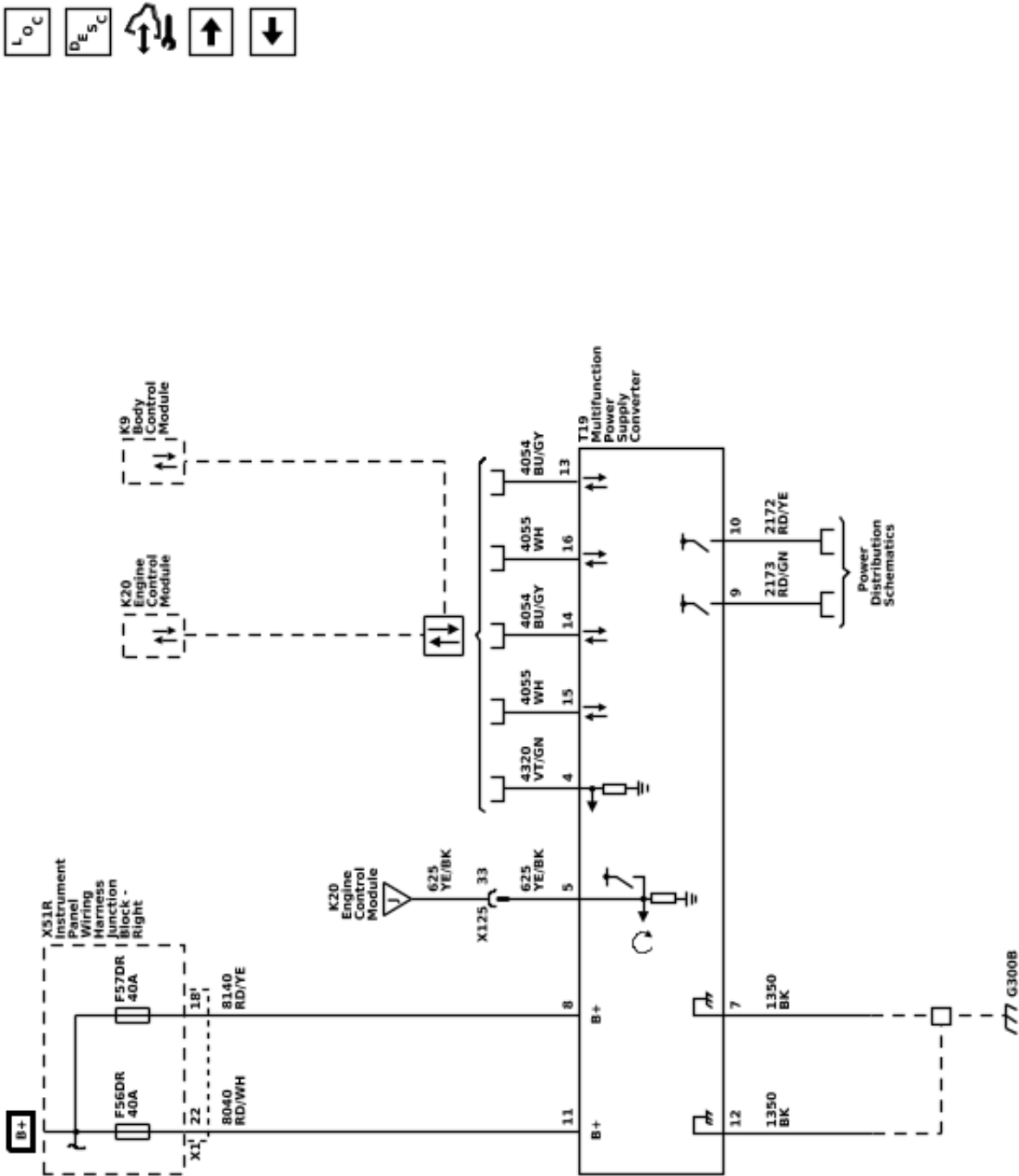
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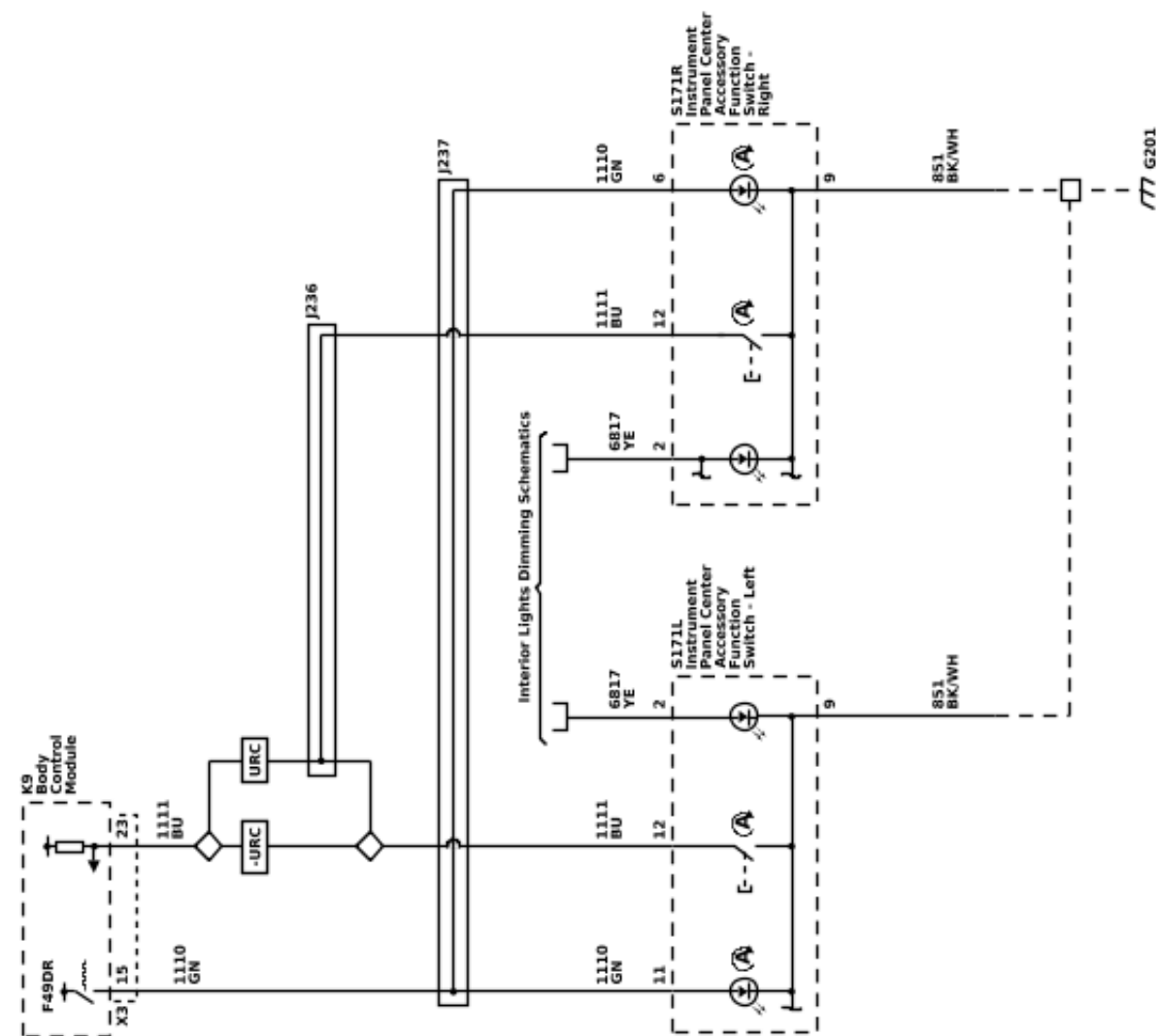
Starting and Charging Schematics (Starting (LZ0))





Starting and Charging Schematics (Power Supply Transformer Power, Ground, Serial Data, and Subsystem References (KL9))





Description and Operation

Charging System Description and Operation

Electrical Power Management Overview

The electrical power management system is designed to monitor and control the charging system and send diagnostic messages to alert the driver of possible problems with the battery and generator. This electrical power management system primarily utilizes existing on-board computer capability to maximize the effectiveness of the generator, to manage the load, improve battery state-of-charge and life, and minimize the system's impact on fuel economy. The electrical power management system performs 3 functions:

- Monitor the battery voltage and estimate the battery condition
- Take corrective actions by boosting idle speeds, and adjusting the regulated voltage
- Perform diagnostics and driver notification

The battery condition is estimated during ignition/vehicle off and during ignition/vehicle on. During ignition/vehicle off the state-of-charge of the battery is determined by measuring the open-circuit voltage. The state-of-charge is a function of the acid concentration and the internal resistance of the battery, and is estimated by reading the battery open circuit voltage when the battery has been at rest for several hours.

Any time the ignition/vehicle is on, the vehicle algorithm continuously estimates battery state-of-charge based on adjusted net amp hours, battery capacity, initial state-of-charge, and calculated temperature.

While the engine is running, the battery degree of discharge is primarily determined by the integrated battery current sensor, to obtain net amp hours.

In addition, the electrical power management function is designed to perform regulated voltage control to improve battery state-of-charge, battery life, and fuel economy. This is accomplished by using knowledge of the battery state-of-charge and temperature to set the charging voltage to an optimum battery voltage level for recharging without detriment to battery life.

Charging System Components

G13 Generator

The engine drive belt drives the generator. When the rotor is spun, it induces an alternating current (AC) into the stator windings. The AC voltage is then sent through a series of diodes for rectification. The rectified voltage has been converted into a direct current (DC) for use by the vehicles electrical system to maintain electrical loads and the battery charge. The voltage regulator integral to the generator controls the output of the generator; It is not serviceable.

The voltage regulator controls the amount of current provided to the rotor. If the generator has field control circuit fault, the generator defaults to an output voltage of 13.8 V.

The generator is serviced as a complete assembly. If there is a diagnosed fault in the generator, it must be replaced as an assembly.

Generator Pulley

The pulley drives the Generator via the engine drive belt. There are 2 types of pulleys:

1. Conventional solid Pulley which is bolted to the Generator stator shaft. This Pulley can be serviced separately.
2. One Way Clutch Pulley or Overrunning Alternator Decoupler Pulley allows the Generator to spin freely when the engine rapidly slows down on sudden deceleration. This part is not serviceable and the Generator needs to be replaced as an assembly.

K9 Body Control Module (BCM)

The K9 Body Control Module communicates with the K20 Engine Control Module and the instrument cluster for electrical power management operation. The BCM determines the output of the generator and sends the information to the ECM for control of the generator turn on signal circuit. It monitors the generator field duty cycle signal circuit information sent from the ECM for control of the generator. It monitors the battery current sensor, the battery positive voltage circuit, and estimates battery temperature to determine battery state of charge. The BCM also performs idle boost.

B110 Battery Monitor Module

The Battery Monitor Module communicates to the BCM via LIN. The BCM shares this information with the ECM. The purpose of the battery sensor module is to transmit battery information that the BCM/ECM can use to make decisions regarding stop/start, battery saver mode, and load shedding.

K20 Engine Control Module (ECM)

When the engine is running, the generator turn-on signal is sent to the generator from the ECM, turning on the regulator. The generator's voltage regulator controls current to the rotor, thereby controlling the output voltage. The rotor current is proportional to the electrical pulse width supplied by the regulator. When the engine is started, the regulator senses generator rotation by detecting AC voltage at the stator through an internal wire. Once the engine is running, the regulator varies the field current by controlling the pulse width. This regulates the generator output voltage for proper battery charging and electrical system operation. The generator field duty terminal is connected internally to the voltage regulator and externally to the ECM. When the voltage regulator detects a charging system problem, it grounds this circuit to

signal the ECM that a problem exists. The ECM monitors the generator field duty cycle signal circuit, and receives control decisions based on information from the BCM.

P16 Instrument Cluster

As a means of displaying the charging system functions, some vehicles may be equipped with a voltmeter gauge on the instrument cluster and/or a system voltage display in the driver information center. These will indicate the current vehicle system voltage.

The instrument cluster also provides customer notification if there is a concern with the charging system. There are two means of notification: a charge indicator on the instrument cluster and/or a service system message displayed on the Driver Information Center (DIC) if equipped.

Charging System Operation

The purpose of the charging system is to maintain the battery charge and vehicle loads. There are 6 modes of operation and they include:

- Battery Sulfation Mode
- Charge Mode
- Fuel Economy Mode
- Head lamp Mode
- Start Up Mode
- Voltage Reduction Mode

The ECM Controls the Generator through the generator turn-on signal circuit, also known as the Generator L-terminal. The ECM monitors the generator performance through the Generator field duty cycle signal circuit, also known as the generator F-terminal.

The Generator turn-on signal (Generator L-terminal) is a Pulse Width Modulation (PWM) signal of 128 Hz with a duty cycle of 0–100%. Normal duty cycle is between 5–95%. 0–5% and 95–100% are for diagnostic purposes, with 0–5% monitoring for an open circuit and 95–100% monitoring for a short to ground at a fixed 13.8 V. The following table shows the commanded duty cycle and output voltage of the Generator:

Commanded Duty Cycle	Generator Output Voltage (+/- .25 V)
0–5%	13.8 V
10%	11 V
20%	11.56 V
30%	12.13 V
40%	12.69 V
50%	13.25 V
60%	13.81 V

Commanded Duty Cycle	Generator Output Voltage (+/- .25 V)
70%	14.38 V
80%	14.94 V
90%	15.5 V
95–100%	13.8 V

The Generator provides a PWM feedback signal of the Generator voltage output through the Generator field duty cycle signal circuit to the ECM. This information is sent to the Body Control Module (BCM). The Generator field duty cycle signal (Generator F-terminal) is a PWM signal of 60–460 Hz with a duty cycle of 0–100%. Normal duty cycle is between 5–100%. 0–5% is reserved for diagnostic purposes.

As the charging systems works to maintain the battery charge and manage vehicle electrical loads, it is normal for the voltmeter gauge on the instrument cluster or the system voltage displayed in the DIC to fluctuate or change. This does not indicate a malfunction. Depending on the battery state of charge and the vehicle electrical load, these values may be anywhere from 12.5 V to 15.5 V.

Charging System Modes

Battery Sulfation Mode

The BCM will enter this mode when the interpreted Generator output voltage is less than 13.2 V for 45 minutes. When this condition exists the BCM will enter Charge Mode for 2–3 minutes. The BCM will then determine which mode to enter depending on voltage requirements.

Charge Mode

The BCM will enter Charge Mode when ever one of the following conditions are met:

- Windshield wipers are ON for more than 3 s.
- Climate Control Voltage Boost Mode Request is true, as sensed by the HVAC control module via serial data. High speed cooling fan, rear defogger, and HVAC high speed blower operation can cause the BCM to enter the Charge Mode.
- The estimated battery temperature is less than 0°C (32°F).
- Battery State of Charge is less than 80%.
- Vehicle speed is greater than 145 km/h (90 mph)
- A current sensor malfunction exists.
- System voltage is determined to be below 12.56 V

When any one of these conditions is met, the system will set targeted generator output voltage to a charging voltage between 13.9–15.5 V, depending on the battery state of charge and estimated battery temperature.

Fuel Economy Mode

The BCM will enter Fuel Economy Mode when the estimated battery temperature is at least 0°C (32°F) but less than or equal to 80°C (176°F), the calculated battery current is less than 15 A and greater than -8 A, and the battery state-of-charge is greater than or equal to 80%. Its targeted generator output voltage is the open circuit voltage of the battery and can be between 12.5–13.1 V. When fuel economy mode is active, the generator is not charging, only maintaining open circuit battery voltage. The BCM will exit this mode and enter Charge Mode when any of the conditions described above are present.

Headlamp Mode

The BCM will enter Headlamp Mode when ever the head lamps are ON (high or low beams). Voltage will be regulated between 13.9–14.5 V.

Start Up Mode

When the engine is started the BCM sets a targeted generator output voltage of 14.5 V for 30 s.

Tow/Haul Mode (if applicable)

Pressing the Tow/Haul Mode button located on the center stack, the vehicle system voltage is raised and the remote (non-vehicle) battery will be charged. Having the headlamps on will raise the system voltage and if the Tow/Haul button is applied it will not serve any purpose. The voltage is regulated between 13.9-14.5 V.

Instrument Cluster Operation

Charge Indicator Operation

The instrument cluster illuminates the charge indicator and displays a warning message in the driver information center if equipped, when the one or more of the following occurs:

- The ECM detects that the generator output is less than 11 V or greater than 16 V. The instrument cluster receives a serial data message from the ECM requesting illumination.
- The instrument cluster determines that the system voltage is less than 11 V or greater than 16 V for more than 30 s. The instrument cluster receives a serial data message from the BCM indicating there is a system voltage range concern.
- The instrument cluster performs the displays test at the start of each ignition cycle. The indicator illuminates for approximately 3 s.

Driver Information Center Message: BATTERY NOT CHARGING SERVICE CHARGING SYSTEM or SERVICE BATTERY CHARGING SYSTEM

The BCM and the ECM will send a serial data message to the driver information center for the BATTERY NOT CHARGING SERVICE CHARGING SYSTEM or SERVICE BATTERY CHARGING SYSTEM message to be displayed. It is displayed when a charging system DTC is a current DTC. The message is turned off when the conditions for clearing the DTC have been met.

Voltmeter Gauge and/or System Voltage Display (if equipped)

As a means of displaying the charging system functions, some vehicles may be equipped with a voltmeter gauge on the instrument cluster and/or a system voltage display in the driver information center. These will indicate the current vehicle system voltage.

As the charging systems works to maintain the battery charge and manage vehicle electrical loads, it is normal for the voltmeter gauge on the instrument cluster or the system voltage display in the driver information center to fluctuate or change. This does not indicate a malfunction. Depending on the battery state of charge and the vehicle electrical load, these values may be anywhere from 12.5 V to 15.5 V.

Electrical Power Management Description and Operation

Electrical Power Management

The electrical power management is used to monitor and control the charging system and alert the driver of possible problems within the charging system. The electrical power management system makes the most efficient use of the generator output, improves the battery state-of-charge, extends battery life, and manages system electrical loads.

The load shed operation is a means of reducing electrical loads during a low voltage or low battery state-of-charge condition.

The idle boost operation is a means of improving generator performance during a low voltage or low battery state-of-charge condition.

Each electrical power management function, either idle boost or load shed, is activated in incremental steps. For example, idle boost 1 must be active before idle

boost 2 can be active. The criteria used by the body control module (BCM) to regulate electrical power management are outlined below:

Idle Boost and Load Shed With Current Sensor

Function	Battery Temperature Calculation	Battery Voltage Calculation	Amp-Hour Calculation	Action Taken
Idle Boost 1 Start	Less Than -15°C (5°F)	Less Than 13 V	—	First level Idle boost requested
Idle Boost 1 Start	—	—	Battery has a net loss greater than 0.6 Ah	First level Idle boost requested
Idle Boost 1 Start	—	Less Than 11 V	—	First level Idle boost requested
Idle Boost 1 End	Greater Than -10°C (14°F)	Greater Than 12 V	Battery has a net loss less than 0.2 Ah	First level Idle boost request cancelled
Idle Boost 2 Start	—	—	Battery has a net loss greater than 1.6 Ah	Second level Idle boost requested
Idle Boost 2 Start	—	Less Than 11 V	—	Second level Idle boost requested
Idle Boost 2 End	—	Greater Than 12 V	Battery has a net loss less than 0.8 Ah	Second level Idle boost request cancelled
Load Shed 1 Start	—	—	Battery has a net loss of 4 Ah	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 20% of their cycle
Load Shed 1 Start	—	Less Than 11 V	—	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 20% of their cycle
Load Shed 1 End	—	Greater Than 12 V	Battery has a net loss of less than 2 Ah	Clear Load Shed 1
Idle Boost 3 Start	—	—	Battery has a net loss of 10 Ah	Third level Idle boost requested
Idle Boost 3 Start	—	Less Than 11 V	—	Third level Idle boost requested
Idle Boost 3 End	—	Greater Than 12 V	Battery has a net loss of less than 6.0 Ah	Third level Idle boost request cancelled
Load Shed 2 Start	—	—	Battery has a net loss greater than 12 Ah	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 2 Start	—	Less Than 11 V	—	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 2 End	—	Greater Than 12 V	Battery has a net loss of less than 8 Ah	Clear Load Shed 2
Load Shed 3 Start	—	Less Than 11.9 V	Battery has a net loss greater than 20 Ah	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 100% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC

Function	Battery Temperature Calculation	Battery Voltage Calculation	Amp-Hour Calculation	Action Taken
Load Shed 3 Start	—	Less Than 11 V	—	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 100% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 3 End	—	Greater Than 12.6 V	Battery has a net loss of less than 13 Ah	Clear Load Shed 3

Idle Boost and Load Shed Without Current Sensor (based on battery voltage)

Function	Battery Temperature Calculation	Battery Voltage Calculation	Action Taken
Idle Boost 1 Start	Less Than -15°C (5°F)	Less Than 13 V	First level Idle boost requested
Idle Boost 1 Start	—	Less Than 12.6 V	First level Idle boost requested
Idle Boost 1 End	Greater Than -15°C (5°F)	—	First level Idle boost request cancelled
Idle Boost 1 End	—	Greater Than 13 V	First level Idle boost request cancelled
Idle Boost 2 Start	—	Less Than 12.4 V	Second level Idle boost requested
Idle Boost 2 End	—	Greater Than 12.5 V	Second level Idle boost request cancelled
Load Shed 1 Start	—	Less Than 12.3 V	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 20% of their cycle
Load Shed 1 End	—	Greater Than 12.4 V	Clear Load Shed 1
Idle Boost 3 Start	—	Less Than 10 V	Third level Idle boost requested
Idle Boost 3 End	—	Greater Than 12.3 V	Third level Idle boost request cancelled
Load Shed 2 Start	—	Less Than 12.1 V	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 2 End	—	Greater Than 12.2 V	Clear Load Shed 2
Load Shed 3 Start	—	Less Than 11.9 V	Rear Defrost, Heated Mirrors, Heated Seats, HVAC cycled OFF for 100% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 3 End	—	Greater Than 12.0 V	Clear Load Shed 3

Starting System Description and Operation

Starter Motor Operation (Without KL9)

The starter motors are non-repairable. They have pole pieces that are arranged around the armature. Both solenoid windings are energized. The pull-in winding circuit is completed to the ground through the starter motor. The windings work together magnetically to pull and hold in the plunger. The plunger moves the shift lever. This action causes the starter drive assembly to rotate on the armature shaft spline as it engages with the flywheel ring gear on the engine. Moving at the same time, the plunger also closes the solenoid switch contacts in the starter solenoid. Full battery voltage is applied directly to the starter motor and it cranks the engine.

As soon as the solenoid switch contacts close, current stops flowing through the pull-in winding because battery voltage is applied to both ends of the windings. The hold-in winding remains energized. Its magnetic field is strong enough to hold the plunger, shift lever, starter drive assembly, and solenoid switch contacts in place to continue cranking the engine. When the engine starts, pinion overrun protects the armature from excessive speed until the switch is opened.

When the crank signal is removed, the starter relay opens and battery voltage is removed from the starter solenoid S terminal. Current flows from the motor contacts through both windings to the ground at the end of the hold-in winding. However, the direction of the current flow through the pull-in winding is now opposite the direction of the current flow when the winding was first energized.

The magnetic fields of the pull-in and hold-in windings now oppose one another. This action of the windings, along with the help of the return spring, causes the starter drive assembly to disengage and the solenoid switch contacts to open simultaneously. As soon as the contacts open, the starter circuit is turned off.

Enhanced Starter Motor Operation (KL9)

The Engine Stop/Start system in GM vehicles automatically turns off the engine when the vehicle comes to a stop under certain driving conditions, and can quickly restart the engine in about 0.3 seconds when commanded to do so.

In order to smoothly restart the engine as quickly as possible while managing the greater number of engine starts, the Stop/Start system uses an enhanced starter motor that operates differently from a conventional starter motor. It has a high performance electric motor and a stronger pinion engagement mechanism than a conventional starter. It also has independent control of the pinion and motor.

The enhanced starter motor continues using the typical pinion engagement mechanism with a starter solenoid that drives the pinion gear to engage or disengage the flywheel of the engine. When engaged, the starter motor can rotate the engine flywheel and, in turn, the crankshaft.

On the enhanced starter of a Stop/Start system the operation is done in two separate functions inside the solenoid, Starter Motor and Pinion Actuator. Each function controlled individually by the ECM. There are two separate relays to control the two separate parts of the enhanced solenoid:

- KR27 Starter Motor Relay
- KR27C Starter Pinion Actuator Relay

The two individually-controlled relays allow for smooth engagement of the pinion gear into the flywheel with minimum noise and wear.

When the vehicle is coming to a stop, just before the engine stops rotating (at approximately 50 RPM) during stop/start operation, the ECM energizes the Starter Pinion Solenoid Actuator Relay to easily push the pinion gear into the flywheel gear without gear clash. (Fig. 8) When the engine stops rotating during Stop/Start operation (Auto Stop mode), the starter pinion gear is fully engaged, ready for the starter motor to become energized to quickly start the engine again.

A secondary need for the starter pinion to be driven into the flywheel gear before the engine stops rotating is to address quickly changing demands on the engine. For example, when a driver is slowing nearly to a stop — and the Stop/Start system is preparing for Auto Stop mode — but suddenly decides to release the brake and accelerate

In this situation, the engine has already stopped rotating, or nearly so. A conventional starter cannot restart the engine until the engine has completely stopped. However, with the enhanced starter, the starter pinion gear is fully engaged and ready to begin rotating the engine even before it fully stops turning. Otherwise, the engine would actually have to stop rotating before the pinion can engage smoothly to begin a restart.

To prevent a lag in engine operation, the ECM uses predictive speed matching of the flywheel gear speed and the pinion gear speed to engage the pinion gear into the flywheel gear without gear clash before the engine fully stops. By predicting how long it takes the starter motor to spin up using an algorithm, the pinion gear speed can be matched to the flywheel gear speed. The result is an almost instant restart that is possible at extremely low engine speeds.

Ignition Switch

Keyless Start

When the Ignition mode switch is placed in the crank position, a discrete signal is supplied to the body control module (BCM) notifying it that the ignition is in the crank position. The BCM then sends a serial data message to the engine control module (ECM) that crank has been requested. The ECM then verifies that the brake pedal is applied and for manual transmission the clutch is fully depressed or for automatic transmission is in Park/Neutral. If it is, the ECM then supplies 12 V to the control circuit of the starter relay. When this occurs, battery positive voltage is supplied through the switch side of the crank relay to the S terminal of the starter solenoid.

Key Start

When the ignition switch is placed in the Start position, a discrete signal is supplied to the body control module (BCM) notifying it that the ignition is in the Start position. The BCM then sends a message to the engine control module (ECM) notifying it that CRANK has been requested. The ECM verifies that the transmission is in Park or Neutral. If it is, the ECM then supplies 12 V to the control circuit of the crank relay. When this occurs, battery positive voltage is supplied through the switch side of the crank relay to the S terminal of the starter solenoid.

Stop/Start System Description and Operation

The Stop/Start System is used to improve fuel efficiency in stop/start driving. The vehicle automatically shuts down the engine in appropriate conditions at a traffic light, for example, resulting in zero tail pipe emissions and saving fuel which otherwise is used idling the engine when stationary. The engine instantly restarts when the driver is ready to move away.

As soon as the driver prepares to move away (by releasing the brake pedal and/or depressing the accelerator pedal), the engine will start; it only takes the system around 0.3 s to start the engine.

To support the increased number of engine starts, the starter motor is upgraded with a high performance electric motor and a stronger pinion engagement mechanism with reduced noise levels.

Along with the upgraded starter motor, advanced battery technology is required to ensure the vehicles battery can handle the frequent charge and discharge cycles common with stop/start operation. There is battery sensor module connected to the battery which continually monitors the battery charge and healthy state. The Engine Control Module (ECM) uses this information from the battery sensor module to determine if the battery charge and health is sufficient for an Stop/Start condition.

The Stop/Start system can reduce fuel consumption and carbon dioxide (CO₂) emissions by up to 5% in mixed driving conditions. In an urban environment and in heavy traffic with frequent stops the savings may increase to as much as 10%.

There are also sophisticated controls in place to help ensure the Stop/Start System does not compromise the needs of either the driver or vehicle. For the engine to shutdown, the vehicle must be below 5 km/h (3 MPH), the selector lever in position D, and brake pedal depressed. To restart, the driver simply releases the brake pedal and the enhanced starter motor engages the engine. When the engine has been shut down by the Stop/Start System, a control indicator will be illuminated in the Driver Information Center (DIC). When the engine is restarted, the control indicator in the DIC extinguishes.

To ensure neither the needs of the driver or vehicle are compromised the engine will not shut down in the following circumstances:

- Ambient and coolant temperature correlation does not match specified values.
- Ambient temperature is less than -10°C (14°F)
- Battery temperature is less than 0°C (32°F) or greater than 55°C (131°F)
- Driver seat belt is not fastened and the drivers door is not fully closed (not applicable to vehicles in North America)
- HVAC system demand is high
- HVAC defrost has been selected
- Battery charge is low

Likewise the engine will automatically restart if:

- Driver door opened and driver seat belt unbuckled (not applicable to vehicles in North America)
- Engine hood opened
- Battery charge is low
- HVAC demand increases
- Vehicle speed increases
- Brake booster vacuum has been reduced
- Engine coolant temperature is greater than 125°C (257°F)
- Economy mode turned OFF by driver
- Autostop time exceeded 2 min

When the Stop/Start System has shut down the engine, and the ambient temperature is below 15°C (59°F), the ECM will activate the Stop/Start auxiliary relay which controls the electric engine coolant pump motor to continually circulate the engine coolant through the engine while the engine is off. This is to ensure the engine and passenger compartment temperature is maintained while off. Once the Stop/Start System has restarted the engine, the ECM will turn off the electric coolant pump motor, thus allowing the engines internal coolant pump to circulate the engine coolant. The Stop/Start System is automatically activated each time the ignition switch is turned on.

Through the climate control system, the vehicle can be cycled between off, comfort, and eco air conditioning modes (if equipped). In comfort mode, the priority for Stop/Start operation is on customer comfort. Depending on ambient temp, humidity, cabin temperature and cabin temperature setpoint, the least amount of autostops occur in this mode. In eco mode, the priority is on fuel economy. There are more frequent autostops with some sacrificing of cabin temperature control. With the HVAC turned off, the maximum autostops occur since there will be no A/C compressor requests.

Autostop Criteria

The ECM will send an Autostop state message to the body control module (BCM) and shut down the engine when all of the following criteria is met. The BCM will transmit the Autostop state message to the instrument cluster which will display the Autostop indicator in the tachometer display.

- Initial minimum vehicle speed during drive cycle must be 19 km/h (12 MPH) or greater. Subsequent autostop minimum speed may vary from 2-10 km/h (1-6 MPH), depending on vehicle
- Ambient and engine coolant temperature correlation meets specified values.
- Ambient and transmission fluid temperature correlation meets specified values.
- Hood switch status is closed
- Driver door status is closed
- Driver seat belt status is buckled
- Brake booster vacuum is greater than 45 kPa (7 PSI)
- Transmission gear selector is in the Drive position
- Vehicle speed is less than 5 km/h (3 MPH)
- Engine speed is below 1,500 RPM
- Engine coolant temperature is less than 120°C (248°F)
- Ambient temperature is greater than -10°C (14°F)
- No A/C compressor request from HVAC (A/C or Defrost modes)
- Battery voltage greater than 12 V
- Battery state of charge greater than 75% (changes with state of health)

Autostop Enable Ambient and Engine Coolant Temperature Table

Ambient Temperature	inimum Coolant Temperature	Autostop Enable
-10°C (14°F)	60°C (140°F)	Yes
0°C (32°F)	50°C (122°F)	Yes
6°C (43°F)	40°C (104°F)	Yes
12°C (54°F)	30°C (86°F)	Yes
20°C (68°F)	18°C (64°F)	Yes
30°C (86°F)	18°C (64°F)	Yes

Autostart Criteria

The ECM will send an Autostart state message to the BCM. If all of the following conditions are true the ECM and BCM will restart the vehicle.

Driver Enabled Conditions that will engage Autostart:

- Driver removes pressure from the brake or depresses the accelerator pedal while the vehicle is in the forward Drive gear

System Enabled Conditions that will engage Autostart

Note: If one or more of the following conditions occur, the system will force the engine to restart.

- Brake booster vacuum is less than 40 kPa (6 PSI)
- A/C compressor request from HVAC (A/C or Defrost modes)
- Battery voltage less than 11 V,
- Battery state of charge is less than 73% (changes with state of health)

- Driver door status changes to open and driver seat belt status changes to unbuckled (not applicable to vehicles in North America)
- Hood switch status changes to open
- Autostop time exceeded 2 min

If the crank time exceeds 2 s, a manual ignition switch restart will be necessary.

System Components

Engine Control Module (ECM)

The ECM monitors the inputs from the Engine Coolant Temperature (ECT) sensor, Vehicle Speed Sensor (VSS), Battery Sensor Module, hood ajar switch, brake booster vacuum sensor, and engine speed to determine Autostart and Autostop conditions. The ECM also controls the auxiliary coolant pump motor (if equipped).

Transmission Control Module (TCM)

The TCM monitors the inputs from the transmission neutral safety switch to determine the driver selected gear. This information is transmitted to the ECM via serial data to support the Auto Stop Start algorithm.

Engine Coolant Temperature sensor (ECT)

The ECT sensor is used to determine engine operating temperature.

Intake Air Temperature Sensor (IAT)

The ECM uses this sensor to monitor ambient air temperature. If too cold, the Autostop will not occur.

Inside air temperature sensor

The HVAC control module monitors the passenger compartment temperature sensor to determine the temperature inside the passenger compartment. The HVAC control module sends this temperature reading to the ECM on the data communication circuit. The ECM uses this temperature values to determine if a restart is required based on the temperature inside the passenger compartment.

Vehicle speed sensor

The vehicle speed sensor is used to determine vehicle speed. If vehicle speed is detected above a calculated value during an Autostop condition, the ECM will start the engine.

Hood Ajar Switch

If the hood switch is in the open position, the vehicle will not Autostop. If the hood is opened during Autostop, the vehicle will automatically restart.

Brake Booster Vacuum Sensor

The ECM monitors vacuum in order to ensure proper power assist for the brake pedal. If the ECM determines vacuum is too low, it will restart the engine.

Brake Pedal Position Sensor (BPPS) & Accelerator Pedal Position Sensor (APP)

The ECM monitors both the brake pedal position sensor and the accelerator pedal position sensor to determine the level of activation for each. While the accelerator pedal is in its at rest position with no pressure applied by the operator, a partially depressed Brake pedal will cause the ECM to prepare the engine for an Autostop event. When the vehicle is in an auto stop event and the status of the brake pedal position sensor changes from meeting the autostop criteria to not meeting this criteria the engine will be restarted provided all of the other conditions to allow an autostart are met. If the Accelerator pedal is moved from its at rest position the vehicle will also enter an auto start event if all other conditions to support an autostart event, except for the brake pedal position, are met.

Transmission Gear Shift Position Switch

The transmission gear shift position switch is used to determine if the transmission is in the proper state to allow an auto stop/start event. The ECM will not allow Autostop until the brake is engaged, the transmission is in the forward gear position and then the vehicle slows to below the minimum speed required to allow and autostop while meeting all of the other minimum criteria to support an autostop event.

Coolant Pump Motor

The ECM will turn on the auxiliary coolant pump motor during Autostop to maintain engine operating temperature and HVAC temperature. Once the engine is running, the ECM will turn off the coolant pump motor.

Body Control Module (BCM)

The Body Control Module (BCM) monitors the Autostop Disable switch in order to enable or disable the system. It sends the appropriate messages to the ECM Via serial data to enable or disable the system.

Battery Sensor Module

The Battery Sensor Module monitors the battery current load, state of health, and state of charge, the information is sent to the BCM Via LIN then to the ECM Via Serial Data. If the module detects high current load, the battery is in a poor state of health or a low charge condition, the ECM will not allow Autostop to occur.

Autostop Disable Switch

The disable switch is an input to the BCM, it allows the customer to disable or re-enable the Autostop system. After the vehicle is turned off the Autostop system will turn back on the next time the vehicle is started.

Power Supply Transformer

The DC to DC converter monitors battery voltage and will maintain operating voltage to the radio, instrument cluster and instrument panel displays. The DC to DC converter will provide a boosted voltage to sensitive

loads during Autostart to ensure proper operation of the driver informational displays.

Instrument Cluster

In order to differentiate between a normal engine shut down (engine speed 0 RPM) and when the engine has been shut down by the Stop/Start System, the tachometer needle will rest at the Autostop indicator icon (500 RPM point) indicating the engine has been shut down by the Stop/Start System. Once the engine is restarted, or the ECO button has disengaged Autostop, the tachometer will function normally.

Section 5

HVAC

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HVAC

Heating, Ventilation, and Air Conditioning

Description and Operation

Heating and Air Conditioning System Description and Operation

Engine Coolant

Engine coolant is the key element of the heating system. The engine thermostat controls the normal engine operating coolant temperature. Coolant pumped out of the engine enters the heater core through the inlet heater hose. The air flowing through the Heating, Ventilation, and Air Conditioning (HVAC) module absorbs the heat of the coolant flowing through the heater core. The coolant then exits the heater core through the heater outlet hose and returns back to the engine block.

Air Conditioning

Refrigerant is the key element in an air conditioning system. R-1234yf is a very low temperature gas that can transfer the undesirable heat from the passenger compartment to the outside air.

The air conditioning compressor is belt driven and operates when the magnetic clutch is engaged. The compressor builds pressure in the air conditioning system. Compressing the refrigerant also adds heat to the refrigerant. The refrigerant is discharged from the compressor through the discharge hose, and forced to flow to the condenser and then through the balance of the air conditioning system. The air conditioning system is mechanically protected with the use of a high pressure relief valve. If the high pressure air conditioning switch were to fail or if the refrigerant system becomes restricted and refrigerant pressure continued to rise, the high pressure relief will pop open and release refrigerant from the system.

Compressed refrigerant enters the condenser in a high temperature, high pressure vapor state. As the refrigerant flows through the condenser, the heat of the refrigerant is transferred to the ambient air passing through the condenser. Cooling the refrigerant causes the refrigerant to condense and change from a vapor to a liquid state.

The condenser is located in front of the radiator for maximum heat transfer. The condenser is made of aluminum tubing and aluminum cooling fins, which allows rapid heat transfer for the refrigerant. The semi-cooled liquid refrigerant exits the condenser and flows through the liquid line, to the Thermostatic Expansion Valve (TXV).

The TXV is located at the evaporator inlet. The TXV is the dividing point for the high and the low pressure sides of the air conditioning system. As the refrigerant passes through the TXV, the refrigerant is lowered. Due to the pressure differential on the liquid refrigerant, the refrigerant will begin to boil at the TXV. The TXV also meters the amount of liquid refrigerant that can flow into the evaporator.

Refrigerant exiting the TXV flows into the evaporator core in a low pressure, liquid state. Ambient air is drawn through the HVAC module and passes through the evaporator core. Warm and moist air will cause the liquid refrigerant to boil inside the evaporator core.

The boiling refrigerant absorbs heat from the ambient air and draws moisture onto the evaporator. The refrigerant exits the evaporator through the suction line and back to the compressor, in a vapor state. This completes the air conditioning cycle of heat removal. At the compressor, the refrigerant is compressed again and the cycle of heat removal is repeated.

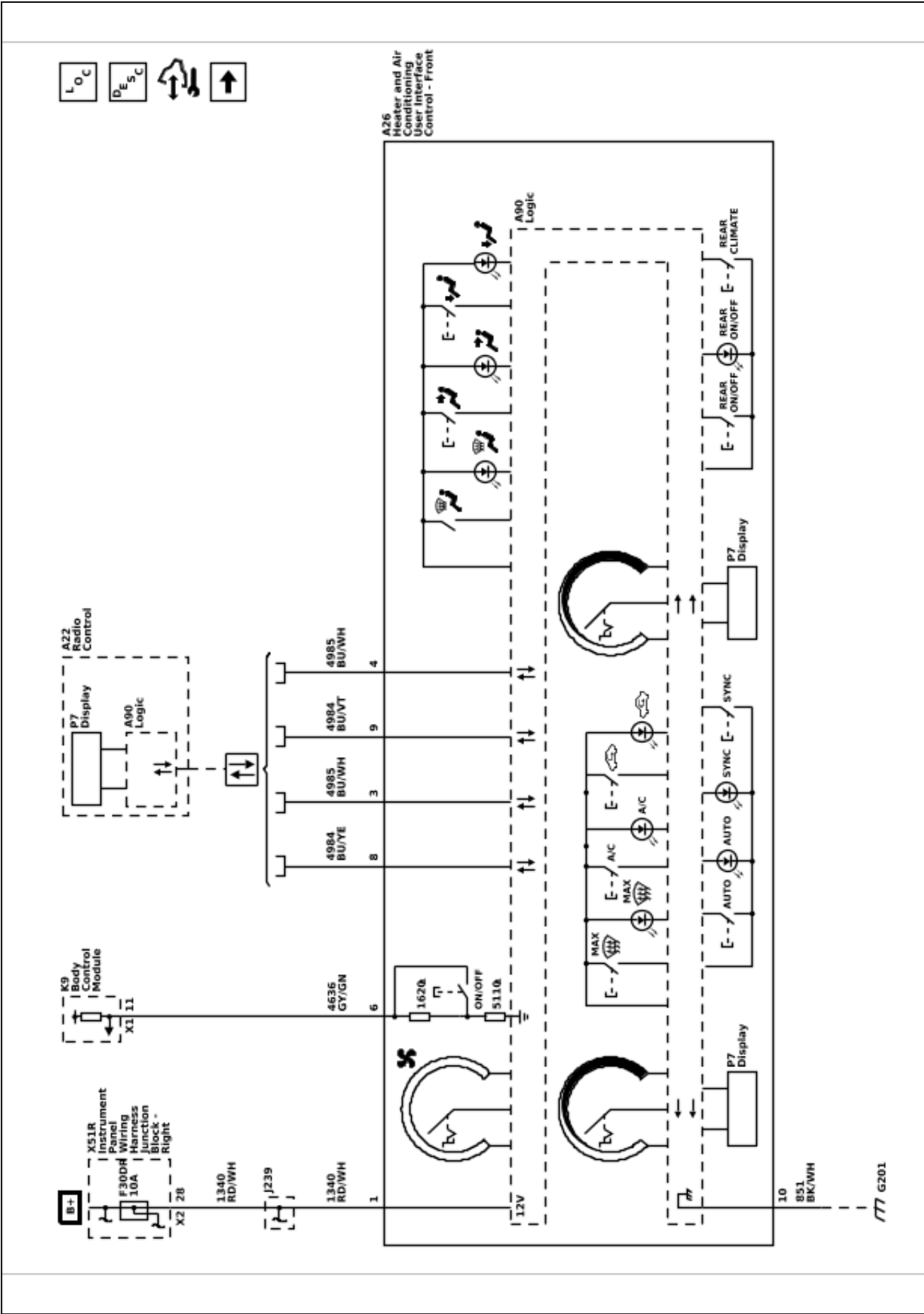
Vehicles equipped with R-1234yf may utilize an integral heat exchanger in the air conditioning line set. An integral heat exchanger transfers heat between liquid line and the suction line. It uses the cold vapor from the evaporator to cool the warm liquid refrigerant before it enters the TXV, resulting in increased cooling and higher efficiency.

The conditioned air is distributed through the HVAC module for passenger comfort. The moisture removed from the passenger compartment will also change form, or condense, and is discharged from the HVAC module as water.

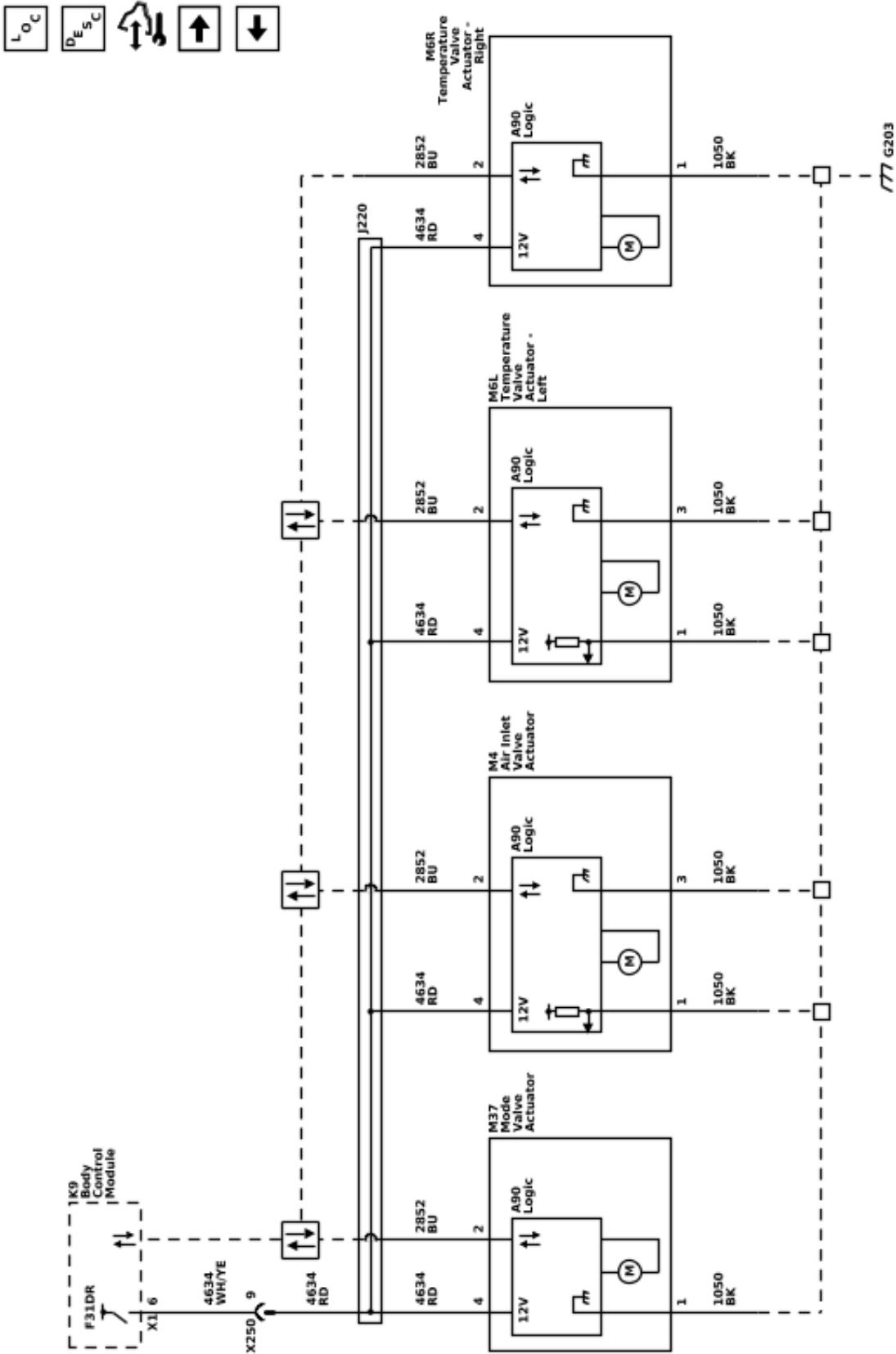
HVAC - Automatic

Schematic and Routing Diagrams

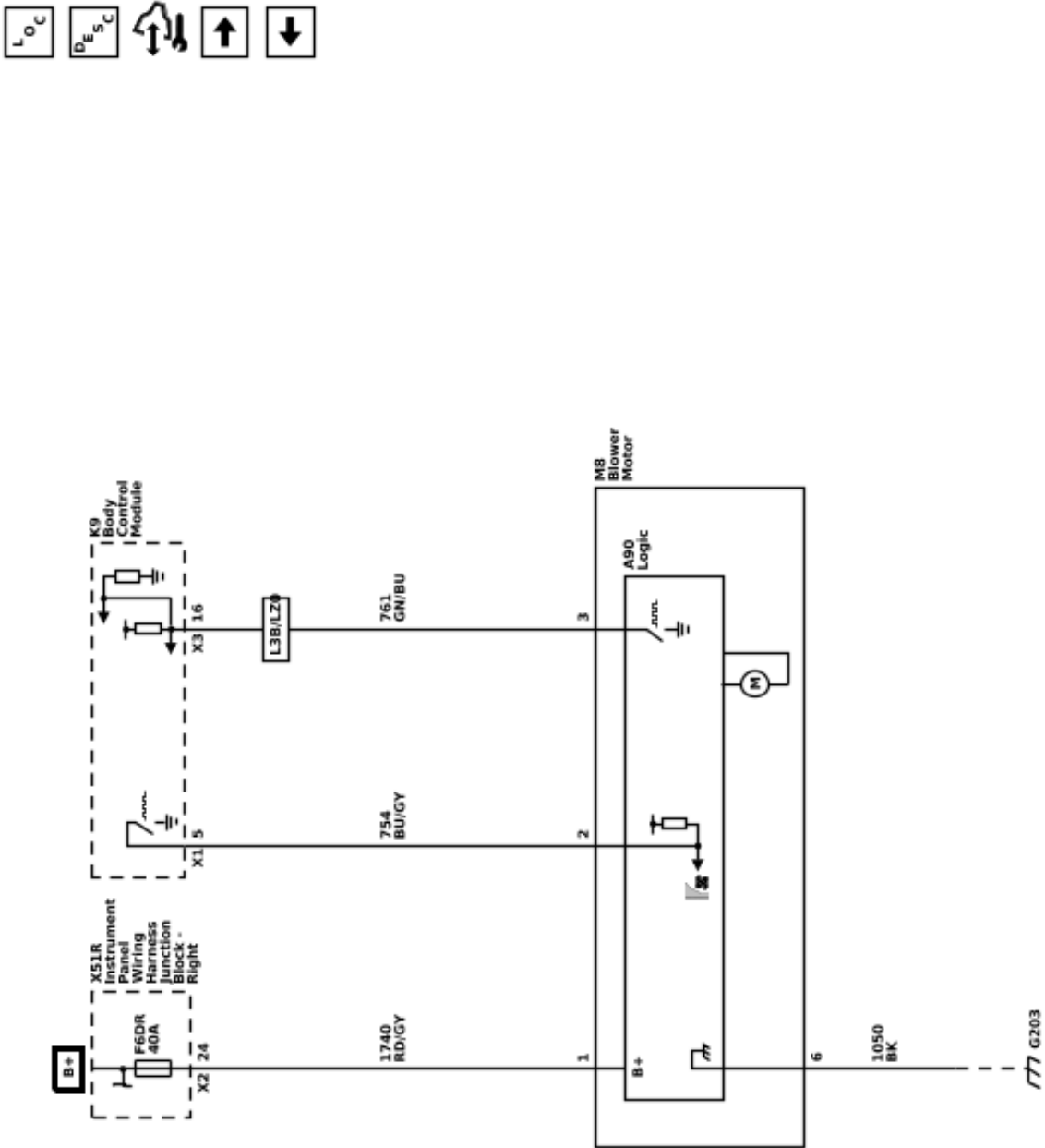
HVAC Schematics (HVAC Controls)



HVAC Schematics (Actuators)

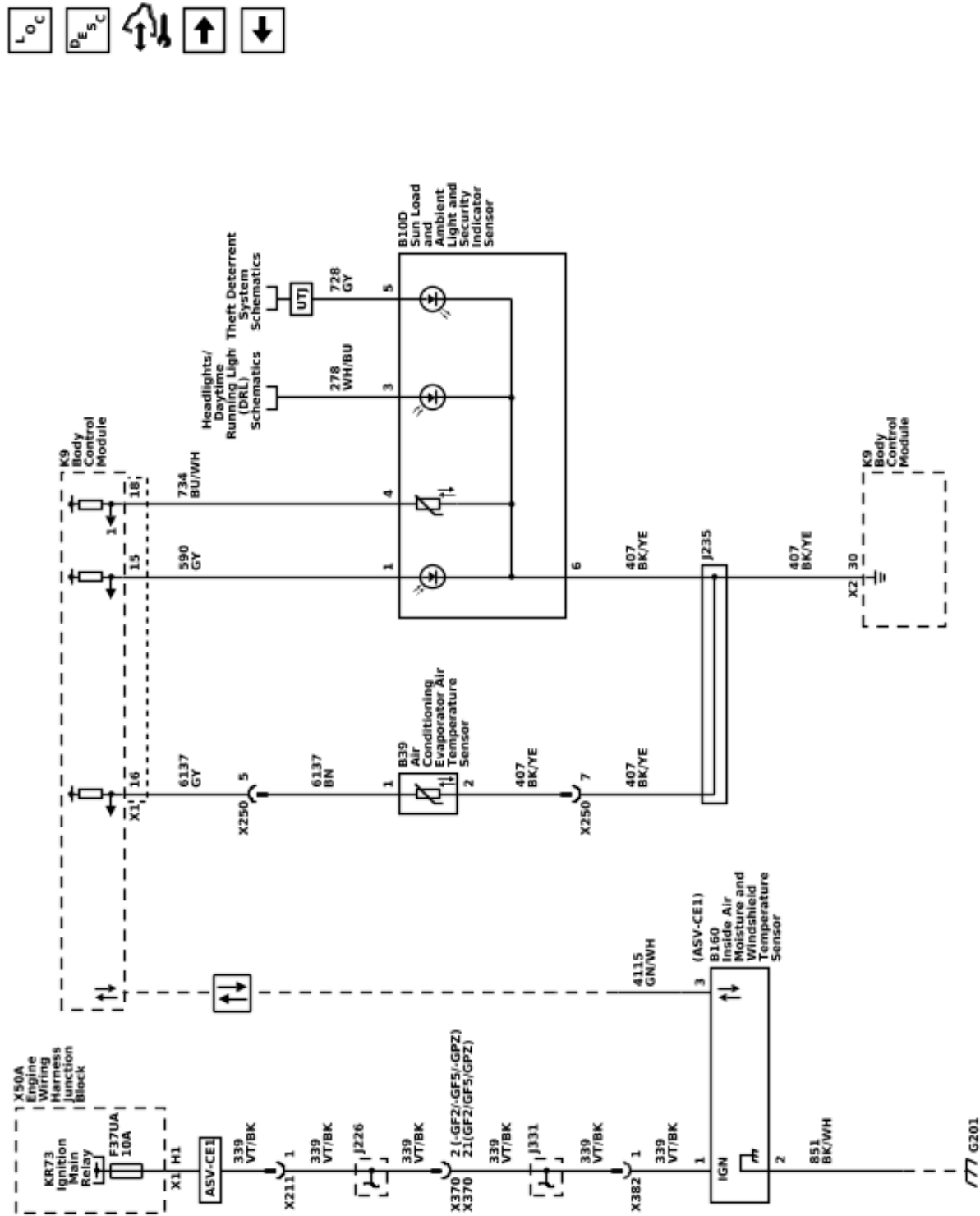


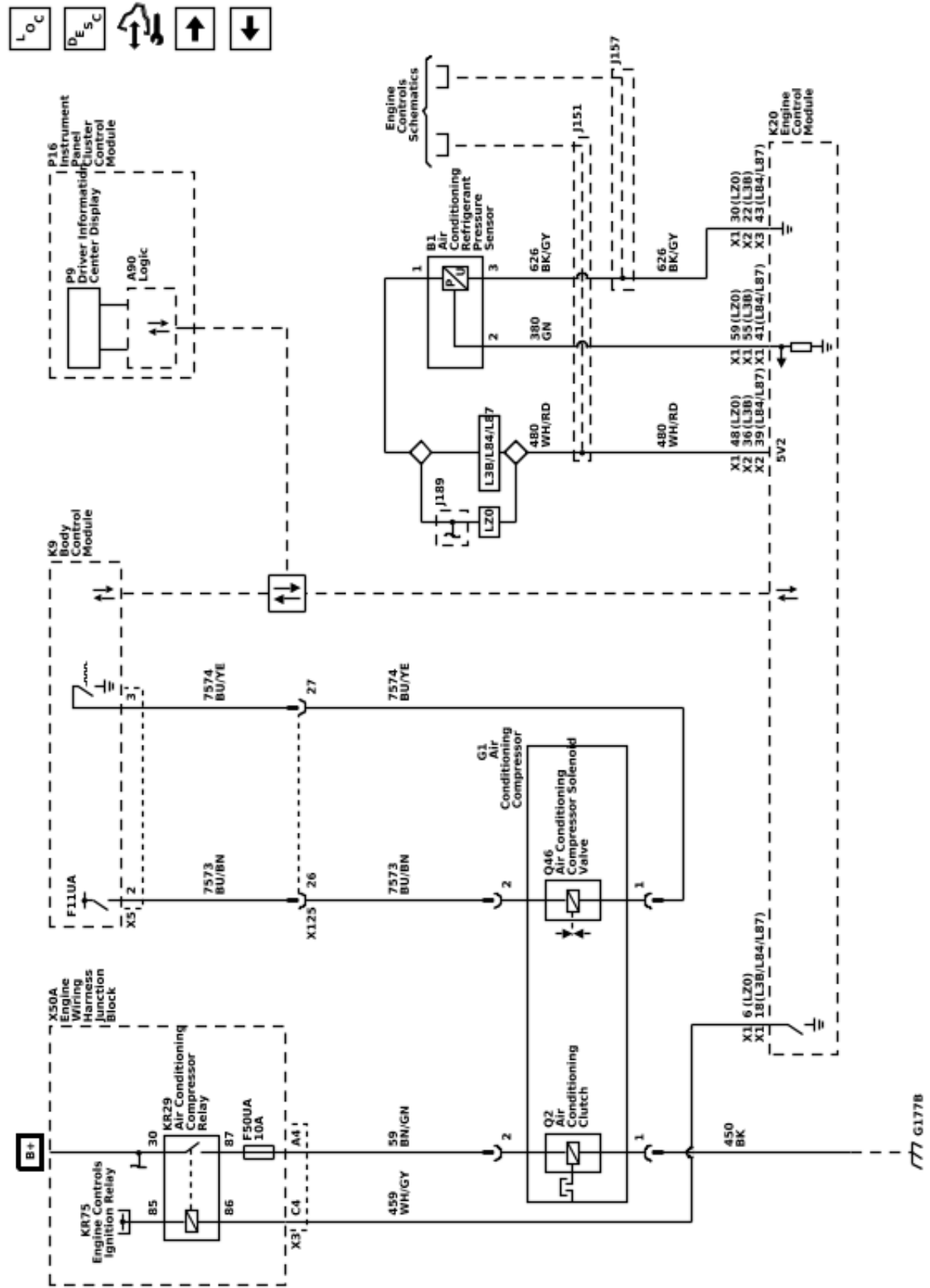
HVAC Schematics (Blower Motor)



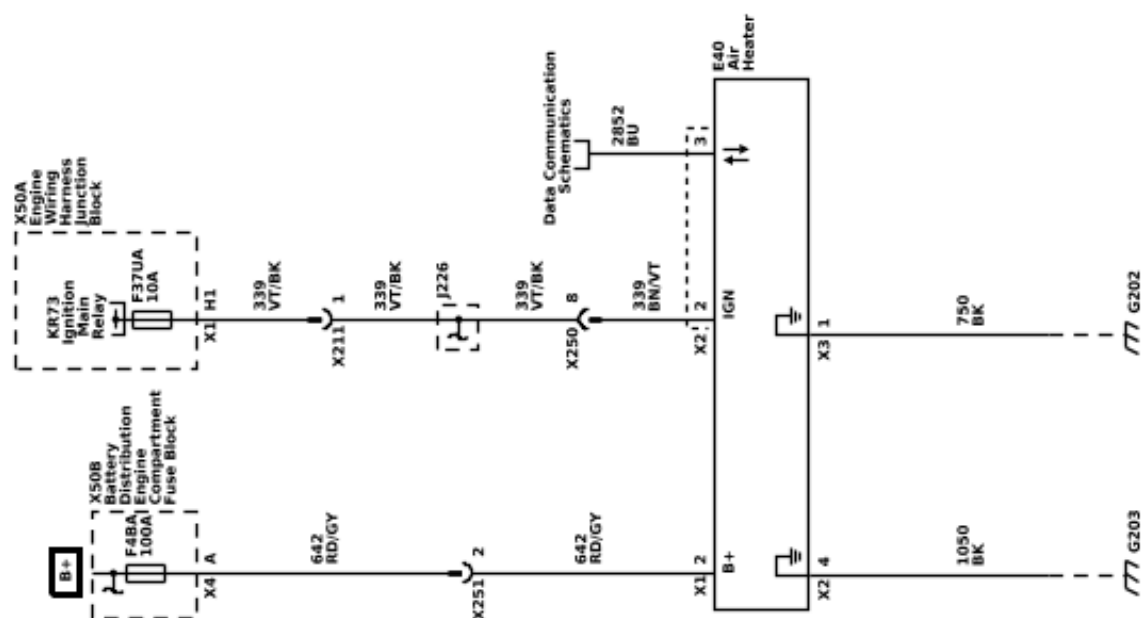
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HVAC Schematics (Windshield Sensors and A/C Evaporator Temperature Sensor)





LOC DESC



Description and Operation

Automatic HVAC Description and Operation

The air temperature and the air delivery description and operation are divided into the following:

- HVAC Control Components
- Air Speed and Blower Motor
- Air Delivery
- Heating and A/C Operation
- Recirculation Operation
- Automatic Operation
- Engine Coolant and A/C System Refrigerant

HVAC Control Components

K9 Body Control Module

The body control module (BCM) is a CAN device that interfaces between the operator and the HVAC system to maintain and control desired air temperature and air distribution settings. The BCM provides a device ON-Signal for the HVAC controls. The BCM provides blower, air delivery mode and air temperature control.

A26 Heater and Air Conditioning User Interface Control - Front

The HVAC control contains all switches which are required to control the functions of HVAC and serve as interface between the operator and the BCM. The selected values are passed to the BCM via serial data.

Actuators

Doors in the HVAC case assembly are used to control air flow. The BCM operates the doors through the use of actuators, with one actuator being used for each door. The system has the following air control doors and associated actuators: mode, left and right temperature, and recirculation.

Each actuator used in the system is a LIN device controlled by the BCM. The BCM supplies a 12 V reference voltage to the actuators, and ground is provided by the wiring harness. When the BCM sends a request message to the actuator, the actuator then operates internal stepper motors to move the door to the required position.

Air Speed and M8 Blower Motor

The selected blower motor speed is passed from the controls to the BCM via serial data.

The motor uses a fused B+, ground, control, and speed output signal circuits to operate. The blower motor speed is controlled by increasing or decreasing the voltage drop on the ground side of the blower motor speed control circuit. The BCM provides a low side pulse width modulation (PWM) signal to the blower motor to request a specific motor speed. The blower

motor internal circuitry translates the PWM signal and drives the motor accordingly.

The blower motor has a signal wire used to output a speed signal. The signal is monitored by the BCM. The BCM monitors the blower motor speed to modify the total commanded engine coolant flow rate, which is a percentage of available coolant flow sent to the heater core for occupant comfort and windshield defrosting. The HVAC Blower Speed is monitored so that the ECM can optimize engine coolant flow for fuel economy and emissions.

Afterblow

Afterblow is a feature that dries the evaporator core by operating the blower motor after the engine is turned OFF under certain conditions. This reduces the amount of moisture that can create undesirable odors. For additional information on afterblow, the default setting, and changing the setting, refer to **Afterblow Configuration**.

Duct Air Temperature

Physical duct air temperature sensors are not used with the front system. The air temperature in the air distribution ducts is calculated by the BCM based on the engine coolant temperature, coolant flow, evaporator temperature, outside air temperature, solar load, blower motor speed, air inlet door position, and temperature door position information. The BCM uses the values to calculate actuator position.

B39 Air Conditioning Evaporator Air Temperature Sensor

The evaporator temperature sensor is a 2-wire negative temperature coefficient thermistor. The sensor operates within a temperature range of -40 to $+85^{\circ}\text{C}$ (-40 to $+185^{\circ}\text{F}$). The sensor is installed near the evaporator core to measure the air temperature exiting the core.

Based on vehicle operating conditions and operator settings, the HVAC software algorithms will determine a target evaporator air temperature. The operation of the compressor solenoid will be adjusted as needed to quickly reach and maintain the targeted temperature.

B1 Air Conditioning Refrigerant Pressure Sensor

The A/C refrigerant pressure sensor is a 3-wire piezoelectric pressure transducer. A 5 V reference voltage, low reference, and signal circuits enable the sensor to operate. The A/C pressure signal can be between 0.2–4.8 V. When the A/C refrigerant pressure is low, the signal value is near 0 V. When the A/C refrigerant pressure is high, the signal value is near 5 V. The engine control module (ECM) converts the voltage signal to a pressure value. When pressure is too high or too low, the ECM will not allow the A/C compressor clutch to engage.

G1 Air Conditioning Compressor

The A/C compressor uses a conventional belt driven magnetic clutch to engage and mechanically turn the compressor. When the A/C switch is pressed, the BCM sends an A/C request message to the ECM via serial data. If specific criteria is met, the ECM then grounds the A/C compressor clutch relay control circuit, which will switch the A/C compressor clutch relay. With the relay contacts closed, battery voltage is supplied to the permanently grounded A/C compressor clutch. The A/C compressor clutch will then be activated.

This A/C system utilizes a variable displacement solenoid valve to alter the amount of displacement created by the turning of the compressor. The BCM provides both battery voltage and a pulse width modulated ground to the Q46 Air Conditioning Compressor Solenoid Valve. When the A/C switch is pressed, the BCM grounds the variable displacement solenoid using a (PWM) signal in order to determine the amount of compressor displacement. The performance of the A/C compressor is regulated based on cooling load.

B160 Inside Air Moisture and Windshield Temperature Sensor

The windshield temperature and inside moisture sensor includes the relative humidity sensor, windshield temperature sensor and humidity sensing element temperature sensor.

This sensor assembly provides information about:

- Relative humidity level at windshield (passenger compartment side)
- Temperature of the windshield (passenger compartment side)
- Temperature of the humidity sensor element

The relative humidity sensor measures the relative humidity of the passenger compartment side of the windshield. It also detects the temperature of the windshield surface on the passenger compartment side. Both values are used as control inputs for the BCM application to calculate the fog risk on windshield compartment side and ability to reduce fuel consumption by decreasing A/C compressor power to a minimum without causing any fog. The sensor will also enable partial recirculation mode in order to improve heat-up performance of the passenger compartment under cold ambient temperature conditions without the risk of mist build-up on the windshield. The humidity sensor element temperature sensor supplies the temperature of the humidity sensor element. It is only needed if the thermal contact between the humidity sensing element and the inside windshield surface is not sufficient.

The sensor is a LIN device, and the sensor values are transmitted to the BCM via serial data.

When equipped with CE1, the sensor is part of the B117A Windshield Outside Moisture/Ambient Light and Humidity Sensor LIN windshield sensor array, and the windshield temperature and humidity values are transmitted to the BCM via serial data.

B10D Sun Load Temperature and Ambient Light and Security Indicator Sensor

The ambient light/sunload sensor includes the solar sensor and passenger compartment temperature sensor.

The solar sensor is connected to a low reference and 5 V supply through the BCM. As the sunload increases, the sensor signal voltage also increases and vice versa. The signal provided to the BCM varies between 1.2–4.85 V.

The passenger compartment temperature sensor is a negative temperature coefficient thermistor, connected to a low reference and 5 V supply through the BCM. As the air temperature increases, the sensor resistance decreases. The signal varies between 0–5 V.

Bright or high intensity light can cause the vehicles interior temperature to increase. The HVAC system uses the sensor values and compensates for the increased temperature to maintain the system settings.

E40 Air Heater (C32)

Some models are equipped with an auxiliary electric heater to assist in warming the passenger compartment when the engine coolant has not sufficiently warmed to operating temperature. The air heater is a LIN device. The heater uses an ignition circuit, battery voltage circuit, ground circuit, and a serial data signal from the BCM to operate.

The heater is a 12 V positive temperature coefficient heating element located in the HVAC case just downstream of the traditional heater core. The system will activate the heater when the outside temperature is less than approximately 8°C (46°F), the engine coolant temperature is less than approximately 75°C (167°F), and the temperature blend door is commanded to the full hot position.

Air Delivery

The BCM controls the distribution of air by the use of recirculation and mode door actuators. The modes that may be selected are:

- Defrost: windshield outlet
- Panel: dashboard outlets
- Floor: front footwell outlets
- Defog: defrost + floor
- Bi-level: panel + floor
- Tri-level: panel + defrost + floor

- Hi-level: panel + defrost

The desired air distribution mode can be selected with the air distribution switches at the HVAC control. The HVAC control delivers the values to the BCM via serial data. The BCM sends a request to the mode door actuator to move the door to the required position. Depending on the position of the door, air is distributed through various ducts leading to the outlets in the dash. When defrost airflow is active, the BCM will move the recirculation actuator to outside air, to aid in reducing window fogging. When defrost is selected the blower motor will be activated, regardless of the coolant temperature. A/C is available in all modes.

Refer to the owners manual for operation of the HVAC controls and mode selection.

Recirculation Operation

The recirculation switch is integrated into the HVAC control. The selected recirculation setting is sent to the BCM via serial data. The BCM controls the air intake using the recirculation actuator. In recirculation mode the recirculation door is positioned to block outside air from entering and circulate the air within the vehicle. In outside air mode the recirculation door is positioned to route outside air into the vehicle.

Recirculation is only available if the defrost mode is not active. When the defrost mode is active, the recirculation actuator positions the recirculation door so that outside air is circulated to the windshield to reduce fogging.

In automatic mode the values of the sensors are used as inputs for the BCM to calculate the fog risk on the passenger compartment side of the windshield. The A/C compressor and the defrost mode may be activated to prevent or remove fog on the passenger compartment side of the windshield.

In automatic mode, a partial recirculation mode may be commanded to accelerate cabin heating or cooling and reduce energy usage. The recirculation indicator remains illuminated at all times, regardless of the actual operating mode determined by the system.

Heating and A/C Operation

The purpose of the heating and A/C system is to provide heated and cooled air to the interior of the vehicle. The A/C system will also remove humidity from the interior and reduce windshield fogging. Regardless of the temperature setting, the following may affect the rate that the HVAC system can achieve the desired temperature:

- Recirculation setting
- Difference between inside and desired temperature
- Blower motor speed setting

- Mode setting
- Dashboard outlet open/closed position

When the A/C switch or the AUTO switch is pressed, the HVAC control sends a signal to the BCM via serial data. The BCM evaluates this signal and sends an A/C request signal to the ECM via CAN-Bus. The ECM checks all preconditions before releasing and if all conditions are met sends a release signal back to the BCM. The A/C compressor is activated by the BCM. The BCM supplies battery voltage to the A/C compressor solenoid. When the A/C switch is pressed, the BCM provides a pulse width modulation (PWM) signal to the A/C compressor solenoid in order to command the performance of the A/C compressor. The performance of the A/C compressor is regulated using evaporator temperature and engine load.

The A/C indicator does not indicate the compressor is currently active. The A/C indicator shows that A/C has been requested and the system will activate the compressor as needed.

The following conditions must be met in order to activate the A/C compressor:

- Battery voltage is between 9–18 V
- Engine coolant temperature is less than 124°C (255°F)
- Engine speed is greater than 600 RPM
- Engine speed is less than 5 500 RPM
- A/C high side pressure is between 269–2 929 kPa (39–425 PSI)
- Throttle position is less than 100%
- Evaporator temperature is greater than 3°C (38°F)
- ECM does not detect immoderate torque load
- ECM does not detect insufficient idle quality
- The ambient temperature is above 1°C (34°F)

The sensor information is used by the ECM to determine the following:

- The A/C high side pressure
- An A/C system load on the engine
- An immoderate A/C high side pressure
- The heat load at the A/C condenser

The air streams into the passenger compartment through the heater core and the evaporator core. The air temperature actuator drives the mixed air door to direct the airflow. If the interior temperature should be increased, the mixed air door is put into the position in which more air streams through the heater core. If the interior temperature should be decreased, the mixed air door is put into the position in which more air streams through the evaporator core.

Automatic Operation

In automatic operation, the BCM maintains the comfort level inside of the vehicle by controlling the A/C compressor solenoid, the blower motor, the air temperature actuators, mode actuator and recirculation actuator.

The automatic mode indicator shows that the system is in full automatic operation. If an individual setting is changed (excluding temperature), the automatic indicator will turn off, and that function will enter manual control. All other functions will remain under automatic control unless manually changed.

To put the HVAC system in automatic mode, the following is required:

1. The auto switch must be activated.
2. The air temperature switch must not be in either the full hot or full cold position.

Once the desired temperature is reached, the blower motor, mode, recirculation and temperature actuators automatically adjust to maintain the temperature selected. The BCM performs the following functions to maintain the desired air temperature:

- Monitors the following:
 - Ambient (outside) air temperature sensor
 - Passenger compartment temperature sensor
 - Calculated front duct air temperatures
 - Windshield temperature and inside moisture sensor
 - Evaporator temperature sensor
 - Ambient light/sunload sensor
- Regulate the blower motor speed
- Position the air temperature actuators
- Position the mode door actuators
- Position the recirculation actuator
- Control of the A/C compressor solenoid

When the temperature setting is set to full hot, the blower speed will increase gradually as the coolant warms to normal operating temperature. When normal engine operating temperature is reached the blower stays on high speed and the air temperature actuators stays in the full heat position.

When the temperature setting is set to full cold, the blower will immediately operate at high speed and the air temperature actuators move to full cold position. The mode actuator moves to the panel position and the recirculation actuator moves to the recirculation position.

Under cold ambient temperatures, the automatic HVAC system provides heat in the most efficient manner. The operator can select an extreme temperature setting but the system will not warm the vehicle any faster. Under warm ambient temperatures, the automatic HVAC system also provides air conditioning in the most efficient manner. Selecting an extreme cool temperature will not cool the vehicle any faster.

In automatic mode the values of the windshield temperature and inside moisture sensor are used as control inputs for the BCM application to calculate the fog risk on the passenger compartment side of the windshield and ability to reduce fuel consumption by decreasing A/C compressor power to a minimum without causing any fog. The A/C compressor and the defrost mode are activated to prevent or remove fog on the passenger compartment side of the windshield. The sensor will also enable partial recirculation mode in order to improve heat-up performance of the passenger compartment under cold ambient temperature conditions without the risk of mist build-up on the windshield.

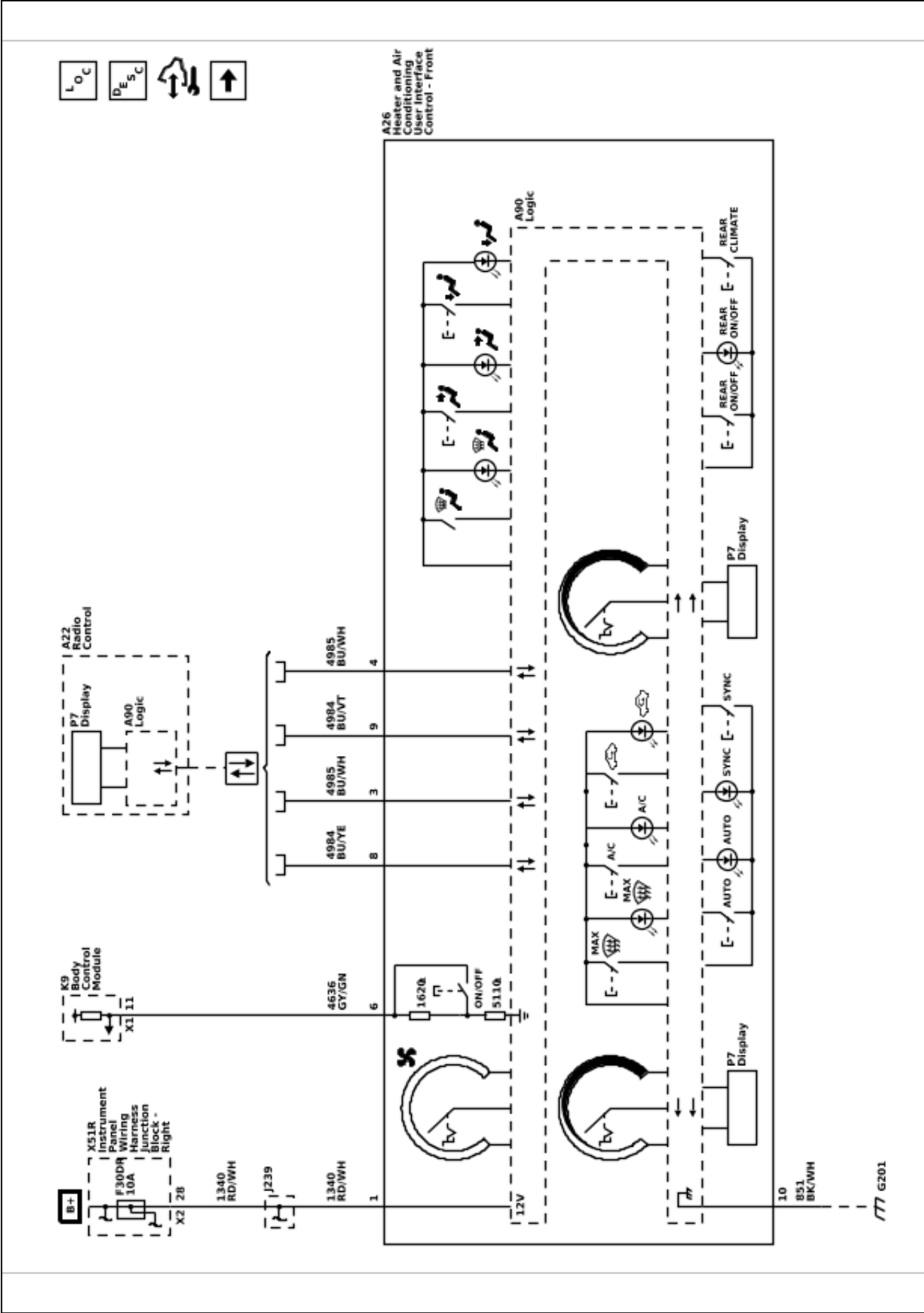
Engine Coolant and A/C System Refrigerant

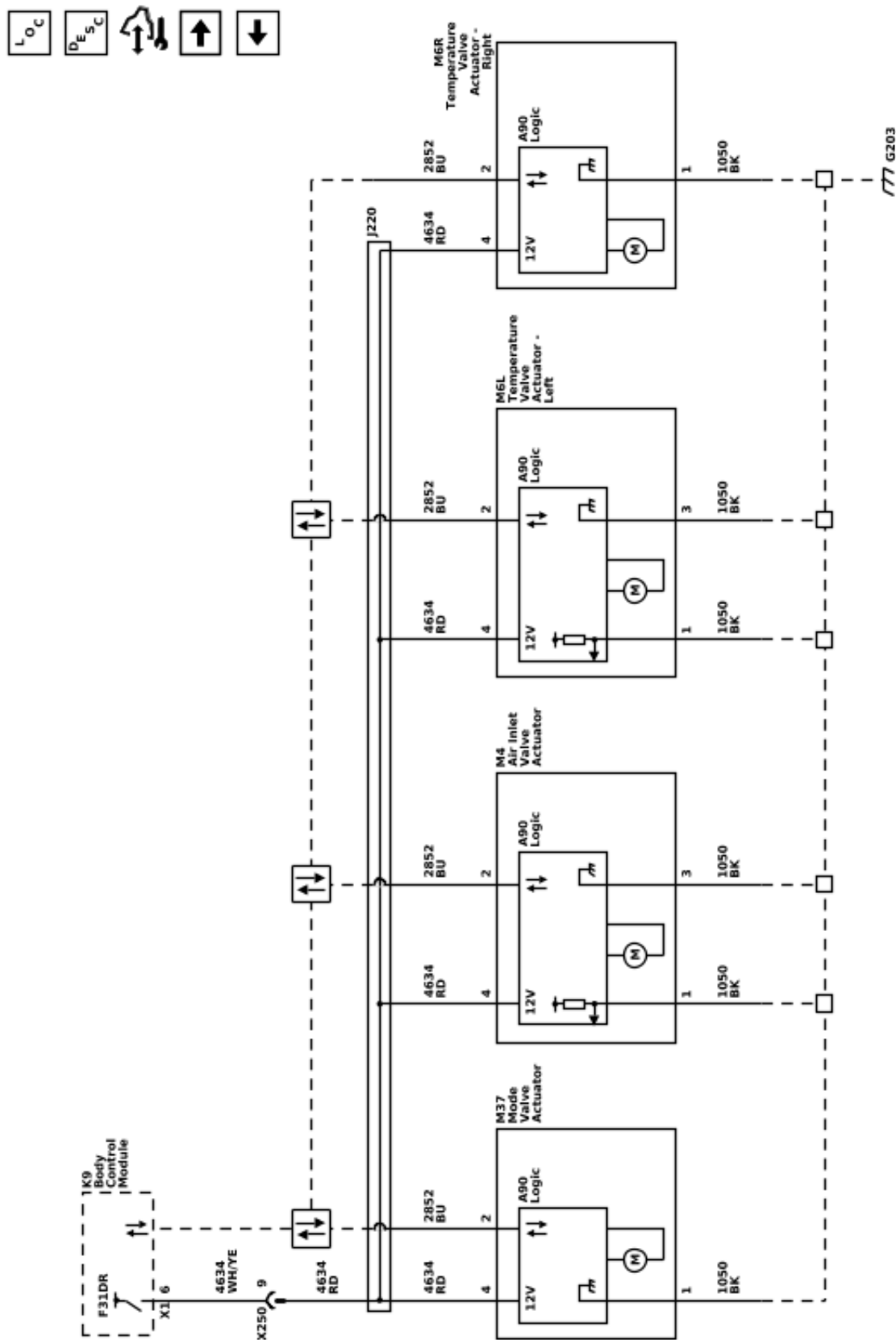
For information on engine coolant, coolant flow, A/C refrigerant, and the A/C refrigerant cycle, refer to *Heating and Air Conditioning System Description and Operation 5-2*.

HVAC - Manual

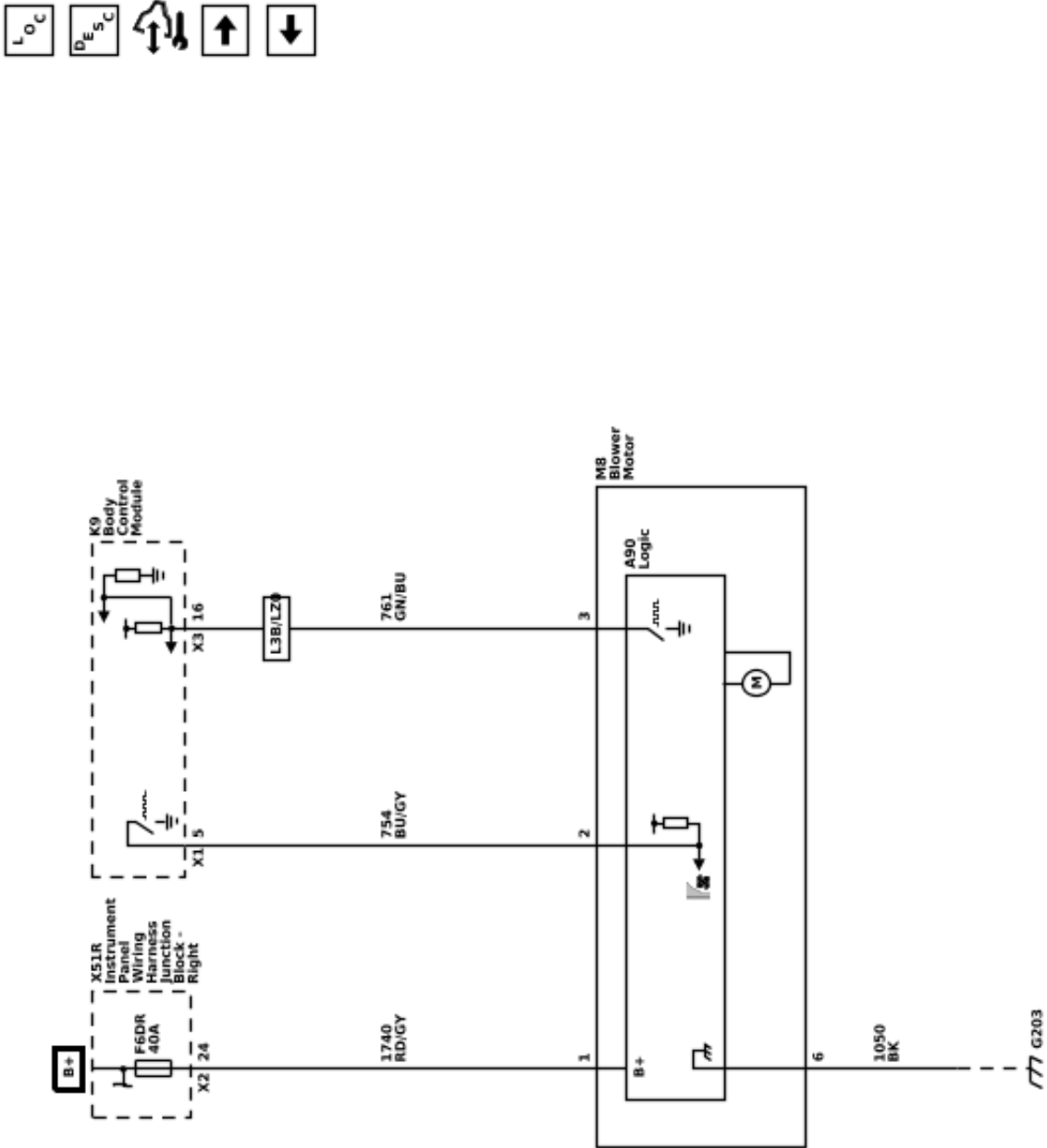
Schematic and Routing Diagrams

HVAC Schematics (HVAC Controls)

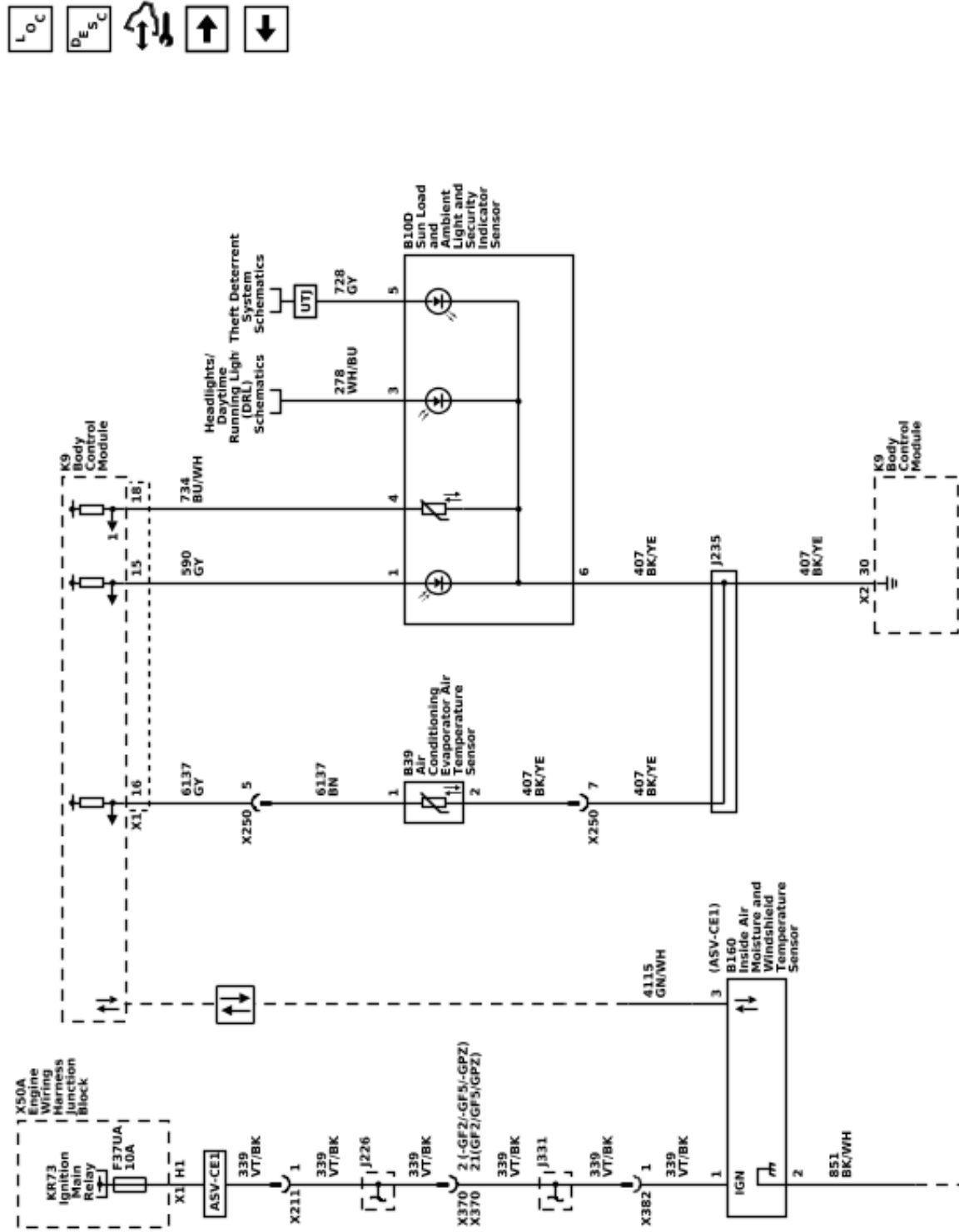




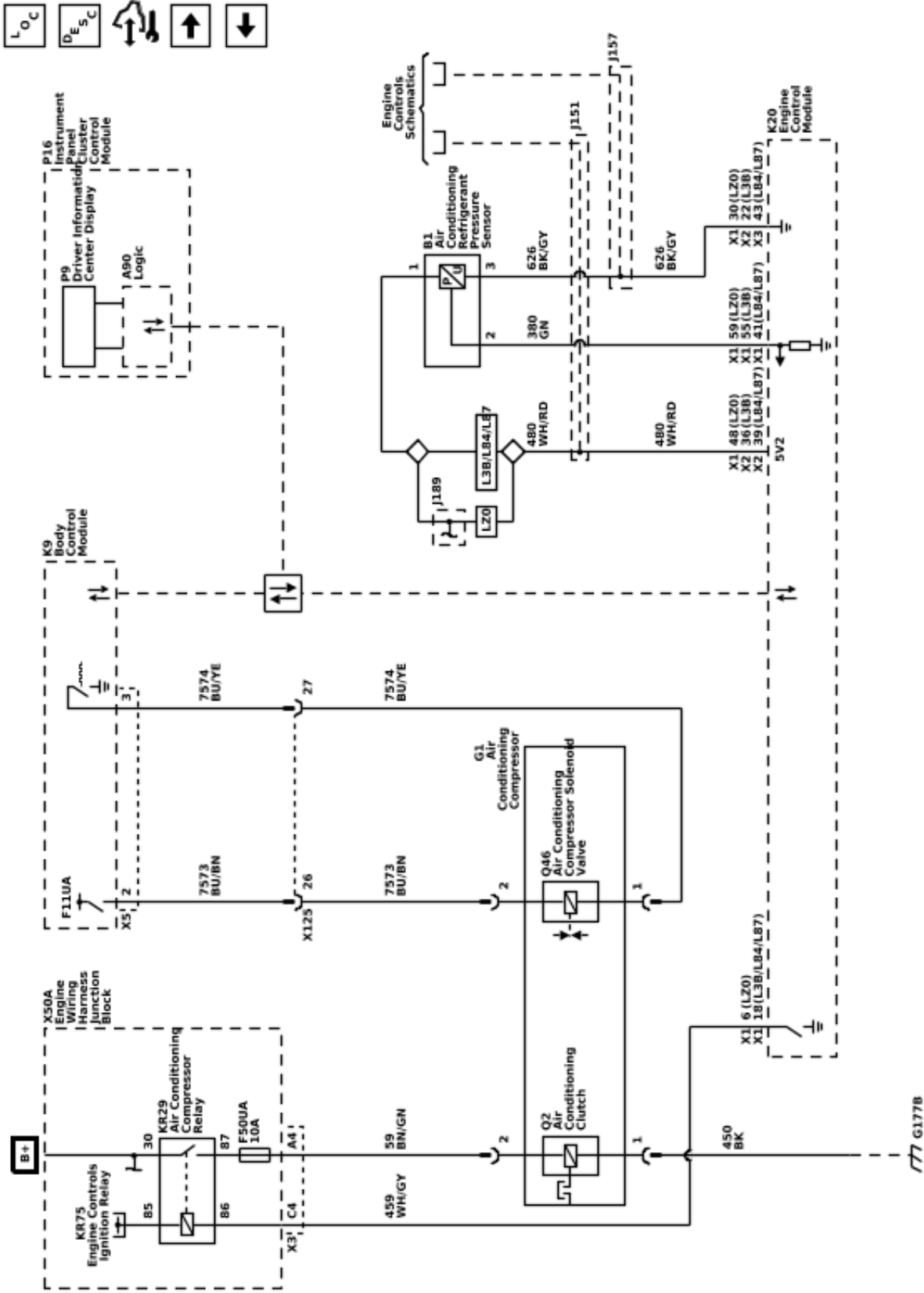
HVAC Schematics (Blower Motor)



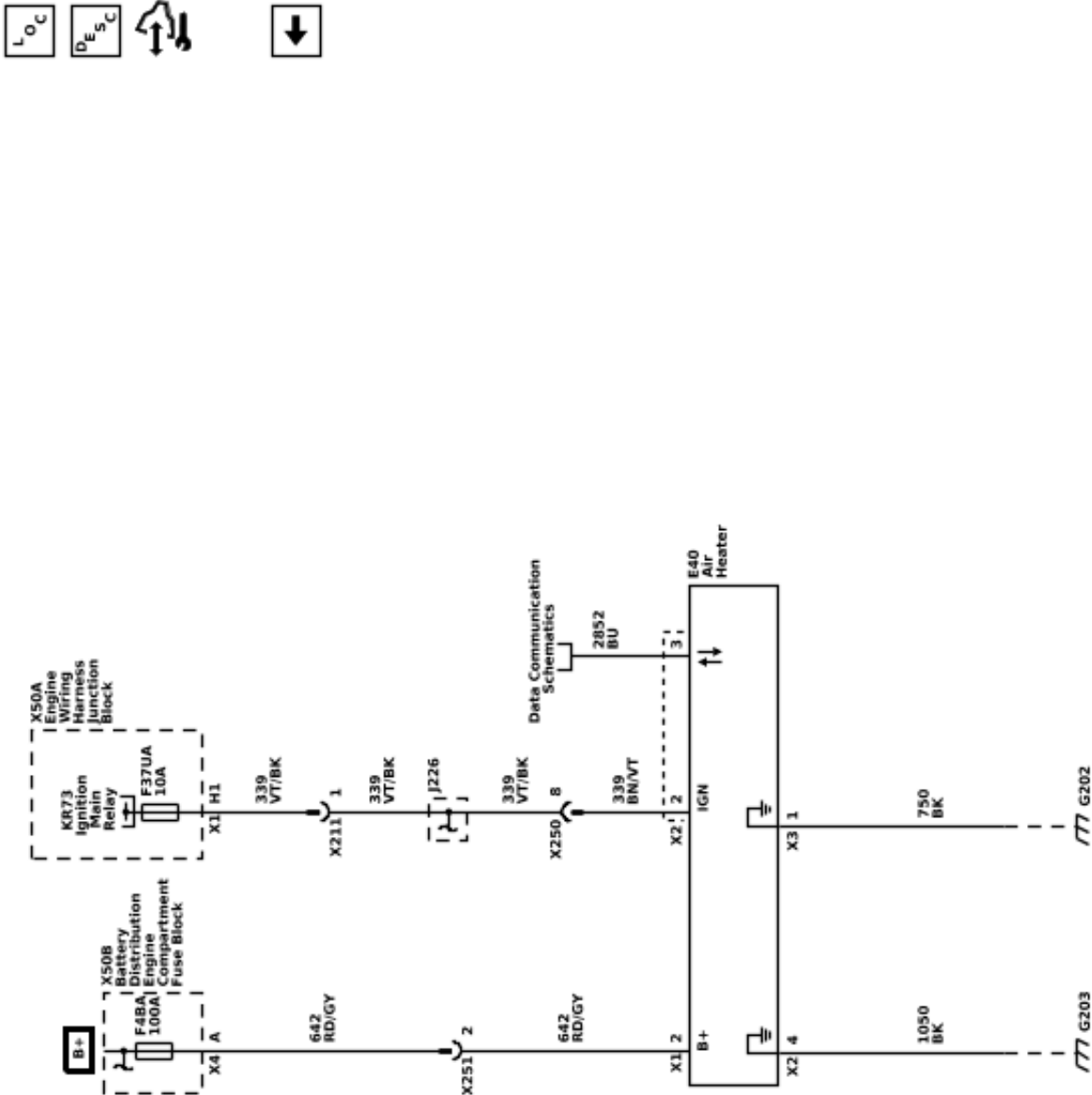
HVAC Schematics (Windshield Sensors and A/C Evaporator Temperature Sensor)



HVAC Schematics (A/C Compressor Controls)



HVAC Schematics (Air Heater (C32))



Description and Operation

Manual HVAC Description and Operation

The air temperature and the air delivery description and operation are divided into the following:

- HVAC Control Components
- Air Speed and Blower Motor
- Air Delivery
- Heating and A/C Operation
- Recirculation Operation
- Engine Coolant and A/C System Refrigerant

HVAC Control Components

K9 Body Control Module

The body control module (BCM) is a CAN device that interfaces between the operator and the HVAC system to maintain and control desired air temperature and air distribution settings. The BCM provides a device ON-Signal for the HVAC controls. The BCM provides blower, air delivery mode and air temperature control.

A26 Heater and Air Conditioning User Interface Control - Front

The HVAC control contains all switches which are required to control the functions of HVAC and serve as interface between the operator and the BCM. The selected values are passed to the BCM via serial data.

Actuators

Doors in the HVAC case assembly are used to control air flow. The BCM operates the doors through the use of actuators, with one actuator being used for each door. The system has the following air control doors and associated actuators: mode, temperature, and recirculation.

Each actuator used in the system is a LIN device controlled by the BCM. The BCM supplies a 12 V reference voltage to the actuators, and ground is provided by the wiring harness. When the BCM sends a request message to the actuator, the actuator then operates internal stepper motors to move the door to the required position.

Air Speed and M8 Blower Motor

The selected blower motor speed is passed from the controls to the BCM via serial data.

The motor uses a fused B+, ground, control, and speed output signal circuits to operate. The blower motor speed is controlled by increasing or decreasing the voltage drop on the ground side of the blower motor speed control circuit. The BCM provides a low side pulse width modulation (PWM) signal to the blower motor to request a specific motor speed. The blower motor internal circuitry translates the PWM signal and drives the motor accordingly.

The blower motor has a signal wire used to output a speed signal. The signal is monitored by the BCM. The BCM monitors the blower motor speed to modify the total commanded engine coolant flow rate, which is a percentage of available coolant flow sent to the heater core for occupant comfort and windshield defrosting. The HVAC Blower Speed is monitored so that the ECM can optimize engine coolant flow for fuel economy and emissions.

Afterblow

Afterblow is a feature that dries the evaporator core by operating the blower motor after the engine is turned OFF under certain conditions. This reduces the amount of moisture that can create undesirable odors. For additional information on afterblow, the default setting, and changing the setting, refer to **Afterblow Configuration**.

B39 Air Conditioning Evaporator Air Temperature Sensor

The evaporator temperature sensor is a 2-wire negative temperature coefficient thermistor. The sensor operates within a temperature range of -40 to +85°C (-40 to +185°F). The sensor is installed near the evaporator core to measure the air temperature exiting the core.

Based on vehicle operating conditions and operator settings, the HVAC software algorithms will determine a target evaporator air temperature. The operation of the compressor solenoid will be adjusted as needed to quickly reach and maintain the targeted temperature.

B1 Air Conditioning Refrigerant Pressure Sensor

The A/C refrigerant pressure sensor is a 3-wire piezo-electric pressure transducer. A 5 V reference voltage, low reference, and signal circuits enable the sensor to operate. The A/C pressure signal can be between 0.2–4.8 V. When the A/C refrigerant pressure is low, the signal value is near 0 V. When the A/C refrigerant pressure is high, the signal value is near 5 V. The engine control module (ECM) converts the voltage signal to a pressure value. When pressure is too high or too low, the ECM will not allow the A/C compressor clutch to engage.

G1 Air Conditioning Compressor

The A/C compressor uses a conventional belt driven magnetic clutch to engage and mechanically turn the compressor. When the A/C switch is pressed, the BCM sends an A/C request message to the ECM via serial data. If specific criteria is met, the ECM then grounds the A/C compressor clutch relay control circuit, which will switch the A/C compressor clutch relay. With the relay contacts closed, battery voltage is supplied to the permanently grounded A/C compressor clutch. The A/C compressor clutch will then be activated.

This A/C system utilizes a variable displacement solenoid valve to alter the amount of displacement

created by the turning of the compressor. The BCM provides both battery voltage and a pulse width modulated ground to the Q46 Air Conditioning Compressor Solenoid Valve. When the A/C switch is pressed, the BCM grounds the variable displacement solenoid using a (PWM) signal in order to determine the amount of compressor displacement. The performance of the A/C compressor is regulated based on cooling load.

E40 Air Heater (C32)

Some models are equipped with an auxiliary electric heater to assist in warming the passenger compartment when the engine coolant has not sufficiently warmed to operating temperature. The air heater is a LIN device. The heater uses an ignition circuit, battery voltage circuit, ground circuit, and a serial data signal from the BCM to operate.

The heater is a 12 V positive temperature coefficient heating element located in the HVAC case just downstream of the traditional heater core. The system will activate the heater when the outside temperature is less than approximately 8°C (46°F), the engine coolant temperature is less than approximately 75°C (167°F), and the temperature blend door is commanded to the full hot position.

Air Delivery

The BCM controls the distribution of air by the use of recirculation and mode door actuators. The modes that may be selected are:

- Defrost: windshield outlet
- Panel: dashboard outlets
- Floor: front footwell outlets
- Defog: defrost + floor
- Bi-level: panel + floor
- Tri-level: panel + defrost + floor
- Hi-level: panel + defrost

The desired air distribution mode can be selected with the air distribution switches at the HVAC control. The HVAC control delivers the values to the BCM via serial data. The BCM sends a request to the mode door actuator to move the door to the required position. Depending on the position of the door, air is distributed through various ducts leading to the outlets in the dash. When defrost airflow is active, the BCM will move the recirculation actuator to outside air, to aid in reducing window fogging. When defrost is selected the blower motor will be activated, regardless of the coolant temperature. A/C is available in all modes.

Refer to the owners manual for operation of the HVAC controls and mode selection.

Recirculation Operation

The recirculation switch is integrated into the HVAC control. The selected recirculation setting is sent to the BCM via serial data. The BCM controls the air intake using the recirculation actuator. In recirculation mode the recirculation door is positioned to block outside air from entering and circulate the air within the vehicle. In outside air mode the recirculation door is positioned to route outside air into the vehicle.

Recirculation is only available if the defrost mode is not active. When the defrost mode is active, the recirculation actuator positions the recirculation door so that outside air is circulated to the windshield to reduce fogging.

Heating and A/C Operation

The purpose of the heating and A/C system is to provide heated and cooled air to the interior of the vehicle. The A/C system will also remove humidity from the interior and reduce windshield fogging. Regardless of the temperature setting, the following may affect the rate that the HVAC system can achieve the desired temperature:

- Recirculation setting
- Difference between inside and desired temperature
- Blower motor speed setting
- Mode setting
- Dashboard outlet open/closed position

When the A/C switch or the AUTO switch is pressed, the HVAC control sends a signal to the BCM via serial data. The BCM evaluates this signal and sends an A/C request signal to the ECM via CAN-Bus. The ECM checks all preconditions before releasing and if all conditions are met sends a release signal back to the BCM. The A/C compressor is activated by the BCM. The BCM supplies battery voltage to the A/C compressor solenoid. When the A/C switch is pressed, the BCM provides a pulse width modulation (PWM) signal to the A/C compressor solenoid in order to command the performance of the A/C compressor. The performance of the A/C compressor is regulated using evaporator temperature and engine load.

The A/C indicator does not indicate the compressor is currently active. The A/C indicator shows that A/C has been requested and the system will activate the compressor as needed.

The following conditions must be met in order to activate the A/C compressor:

- Battery voltage is between 9–18 V
- Engine coolant temperature is less than 124°C (255°F)
- Engine speed is greater than 600 RPM

- Engine speed is less than 5 500 RPM
- A/C high side pressure is between 269–2 929 kPa (39–425 PSI)
- Throttle position is less than 100%
- Evaporator temperature is greater than 3°C (38°F)
- ECM does not detect immoderate torque load
- ECM does not detect insufficient idle quality
- The ambient temperature is above 1°C (34°F)

The sensor information is used by the ECM to determine the following:

- The A/C high side pressure
- An A/C system load on the engine
- An immoderate A/C high side pressure
- The heat load at the A/C condenser

The air streams into the passenger compartment through the heater core and the evaporator core. The air temperature actuator drives the mixed air door to direct the airflow. If the interior temperature should be increased, the mixed air door is put into the position in which more air streams through the heater core. If the interior temperature should be decreased, the mixed air door is put into the position in which more air streams through the evaporator core.

Engine Coolant and A/C System Refrigerant

For information on engine coolant, coolant flow, A/C refrigerant, and the A/C refrigerant cycle, refer to *Heating and Air Conditioning System Description and Operation 5-2*.

Section 6

Power and Signal Distribution

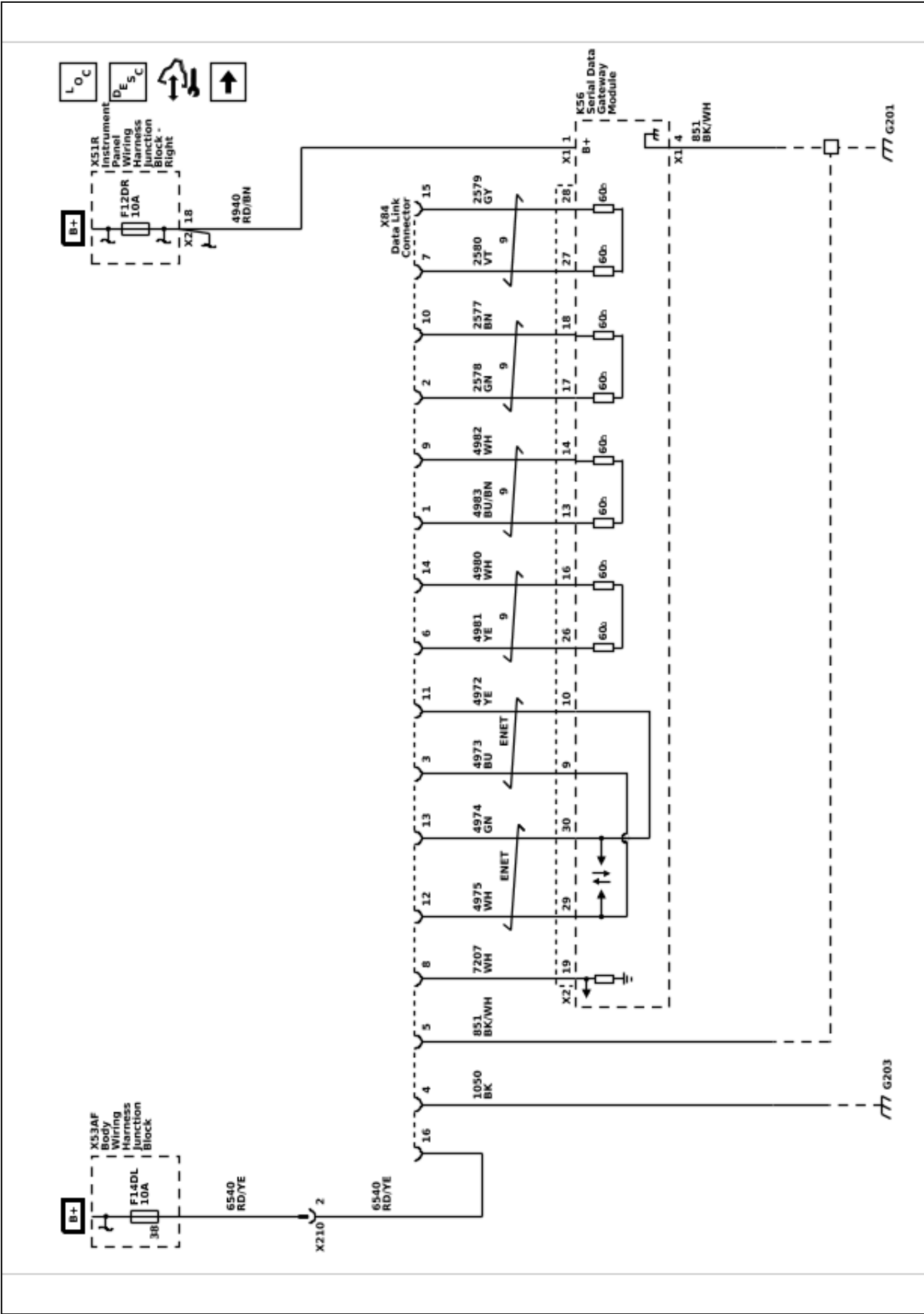
Data Communications	6-2
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Power and Signal Distribution

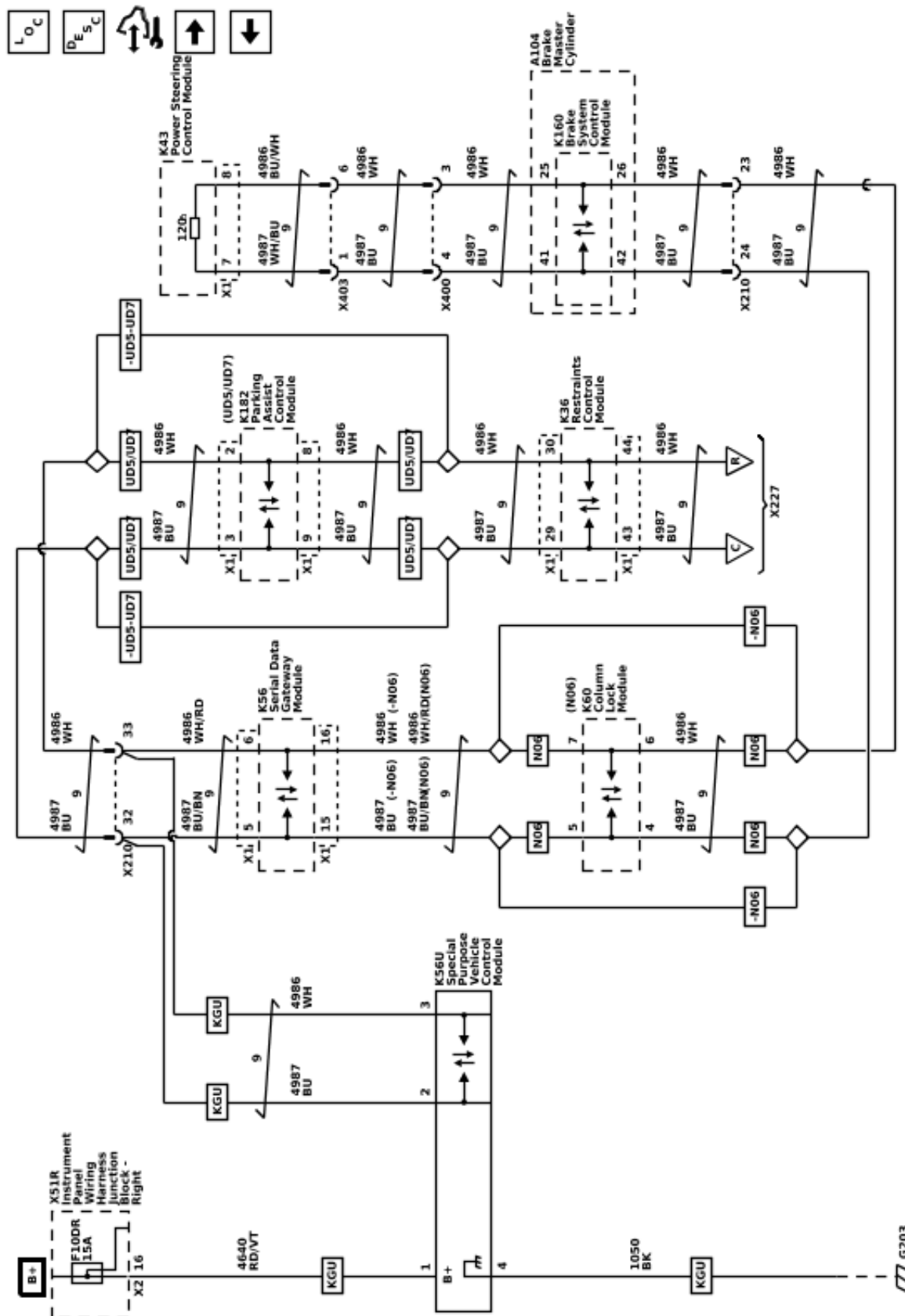
Data Communications

Schematic and Routing Diagrams

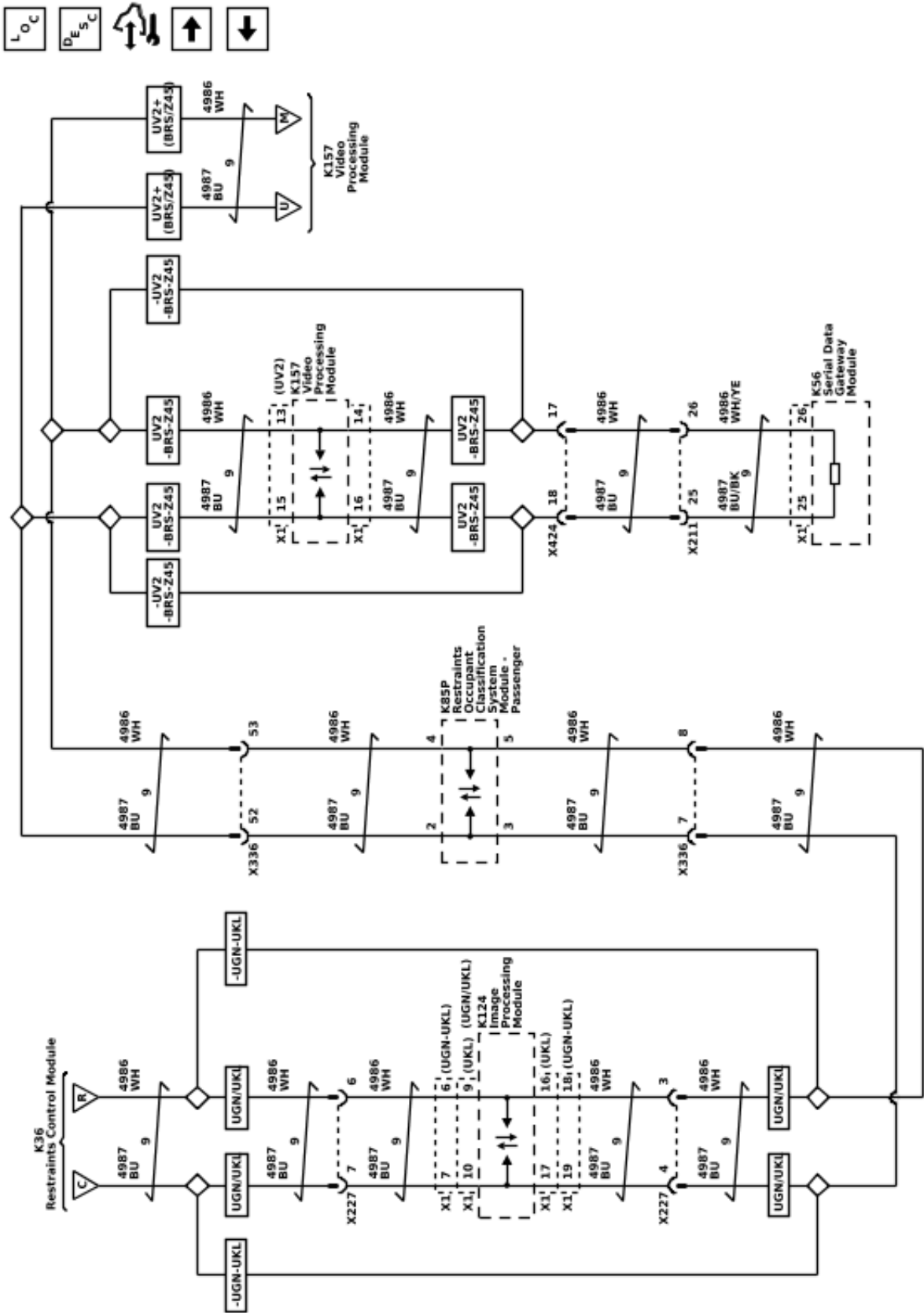
Data Communication Schematics (Data Link Connector and Serial Data Gateway Module Power and Ground)



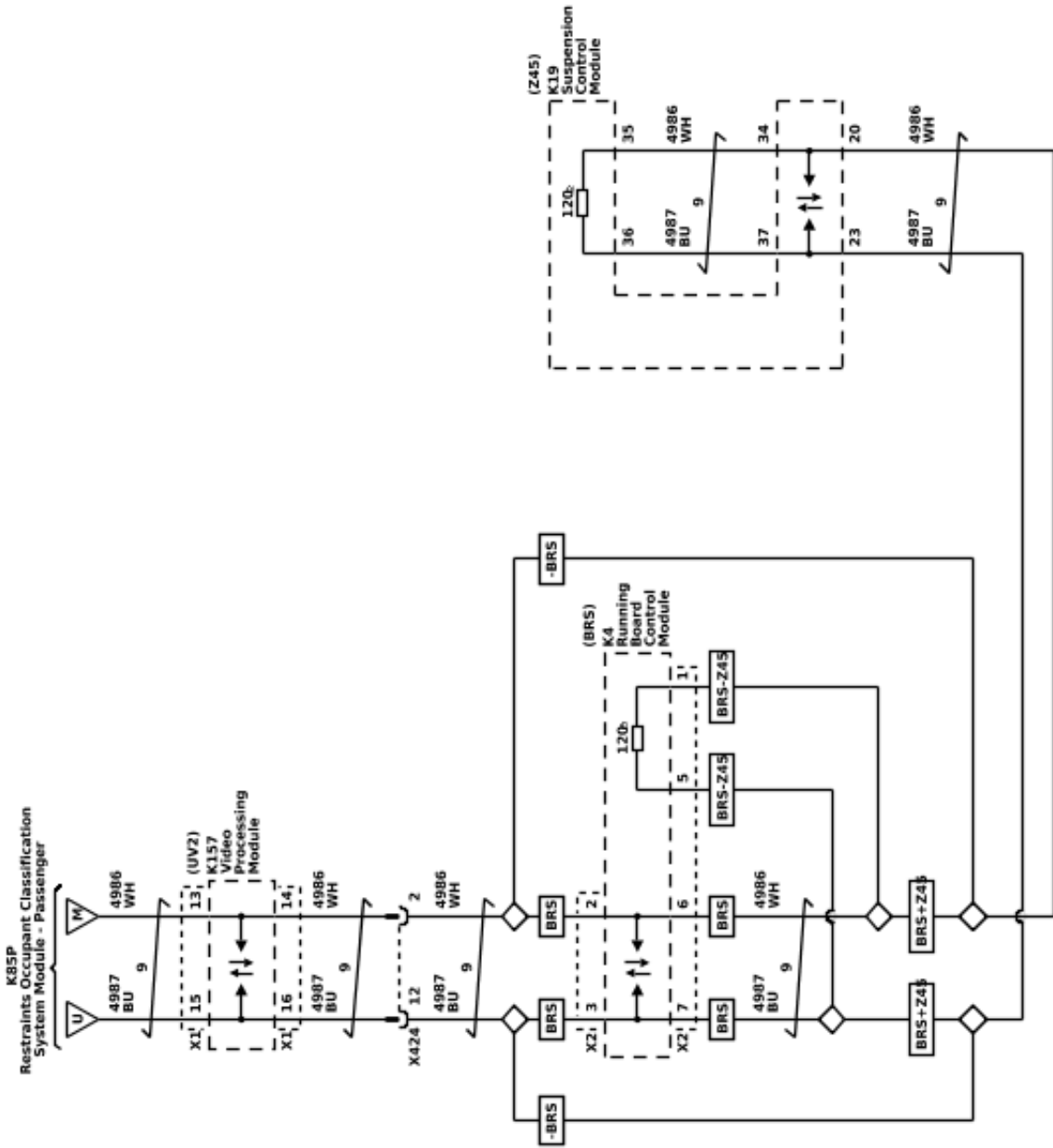
Data Communication Schematics (CAN 1 - 1 of 3 and Special Purpose Vehicle Control Module Power and Ground)



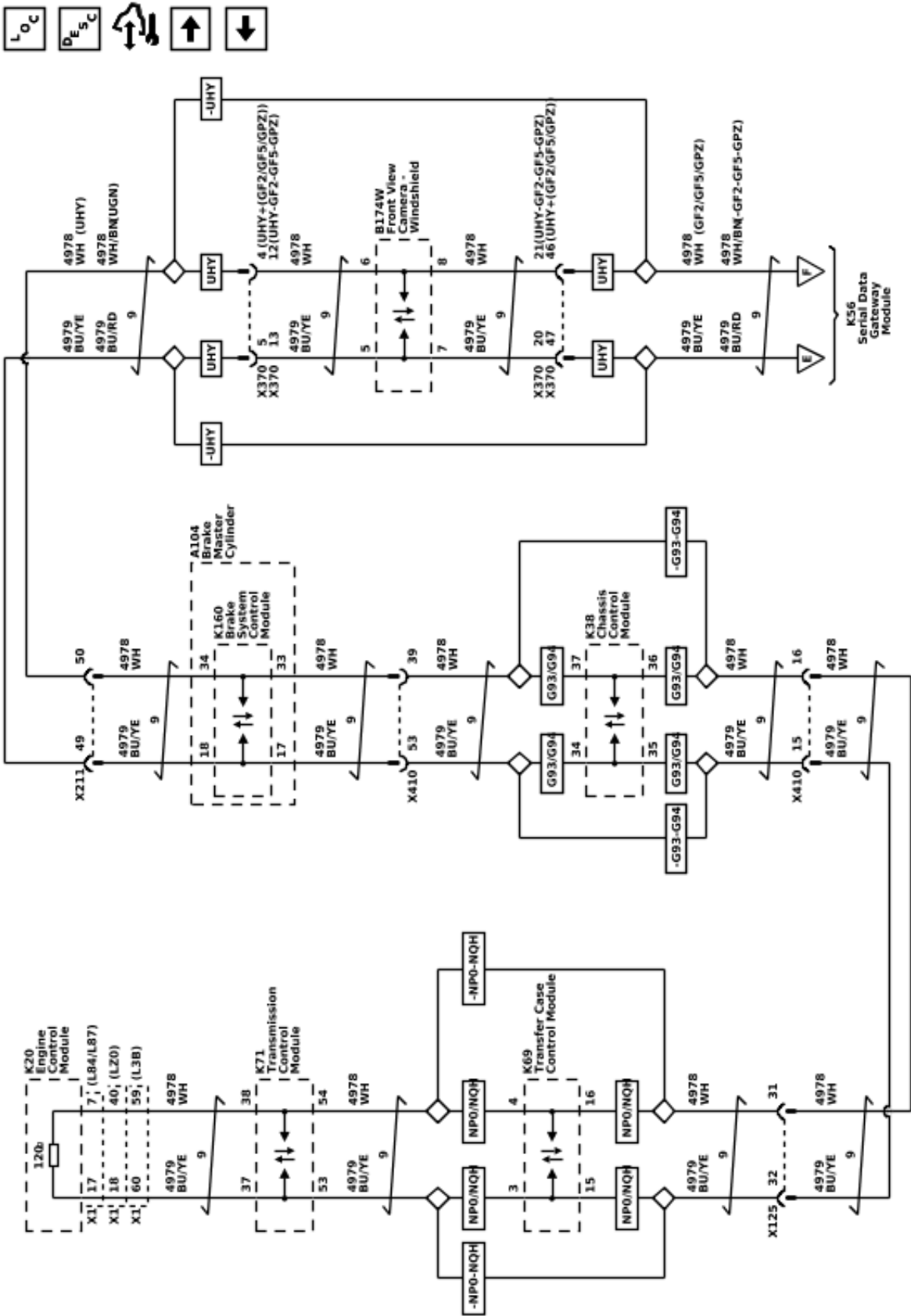
Data Communication Schematics (CAN 1 - 2 of 3)



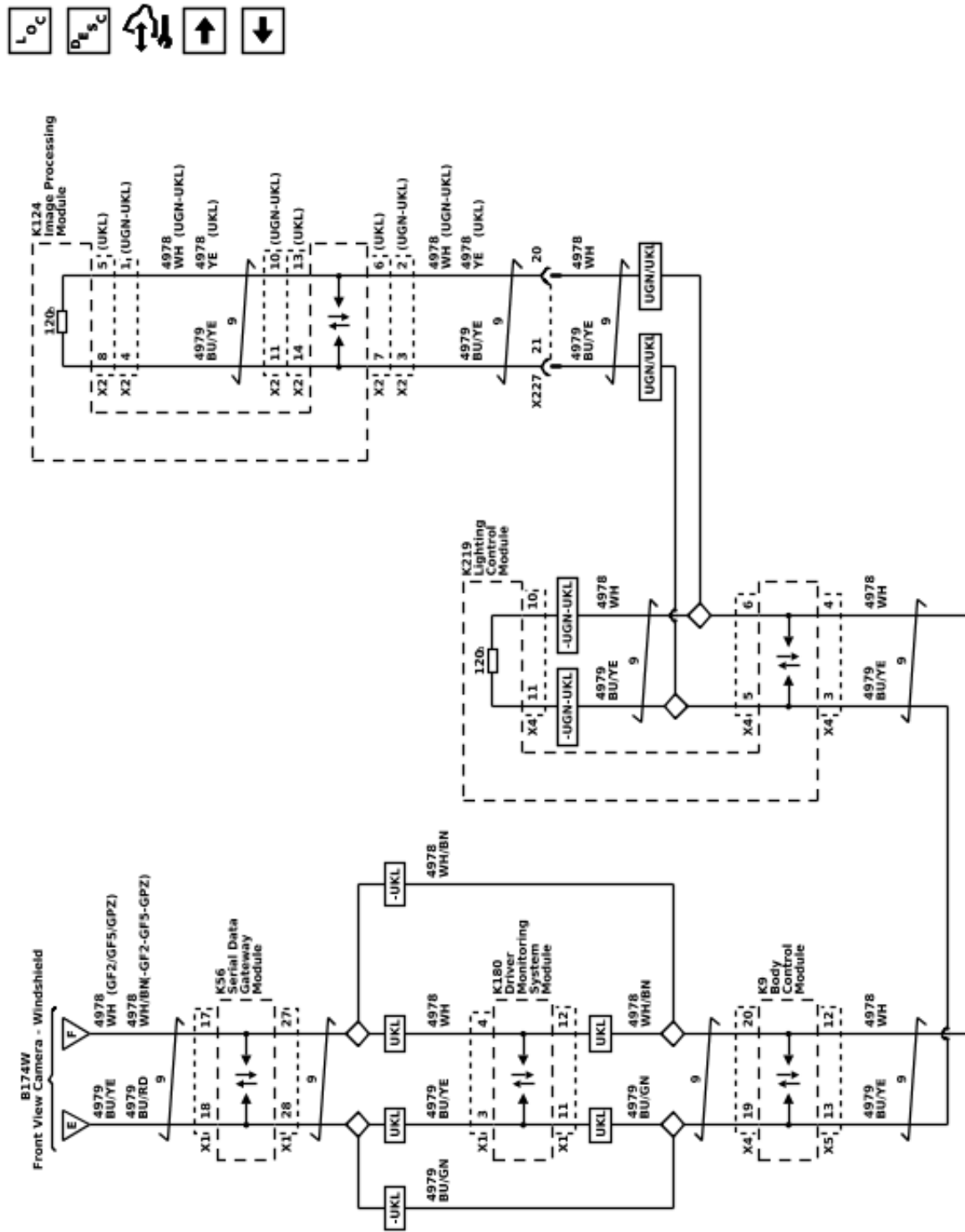
Data Communication Schematics (CAN 1 - 3 of 3)



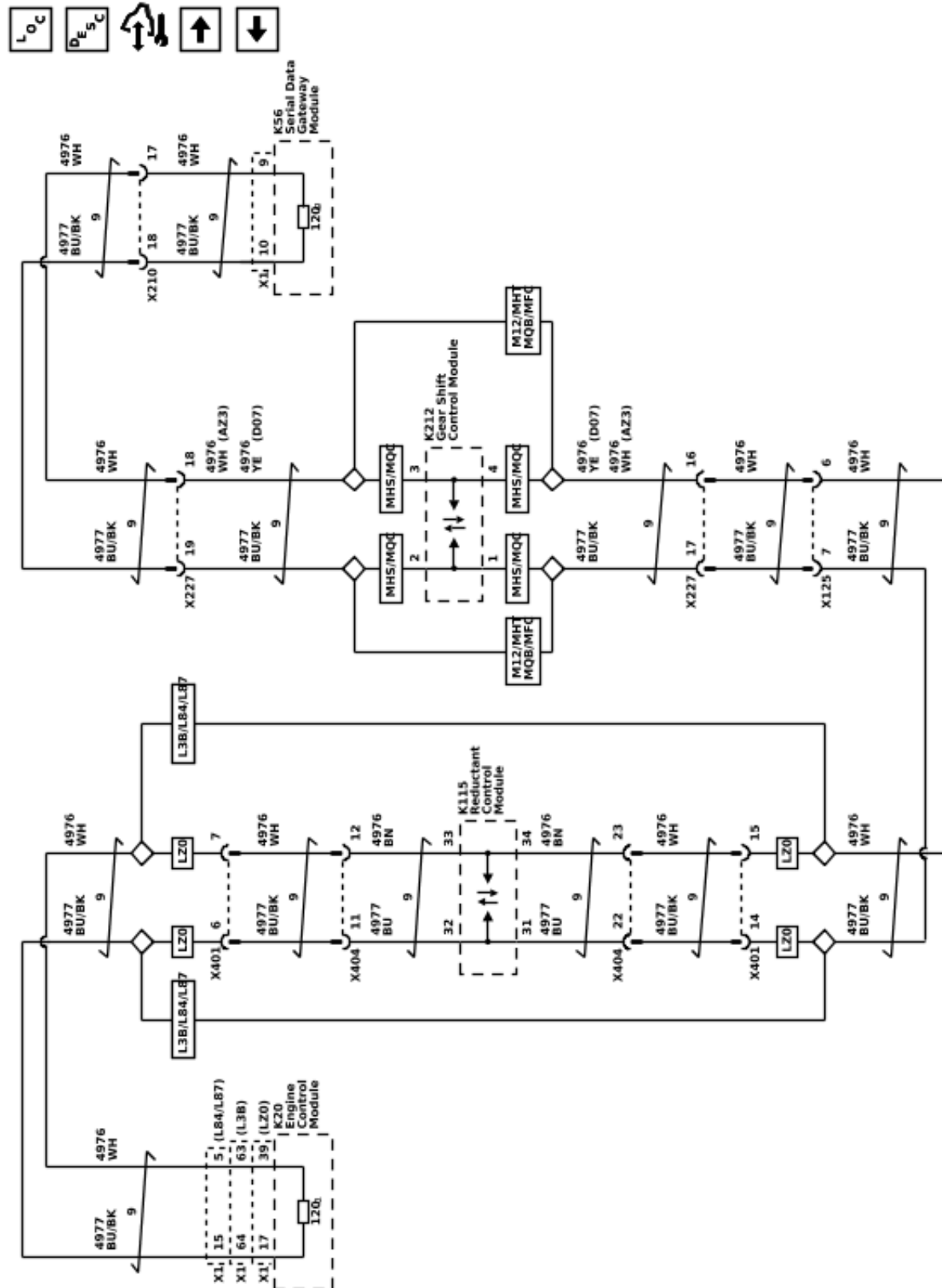
Data Communication Schematics (CAN 2 - 1 of 2)



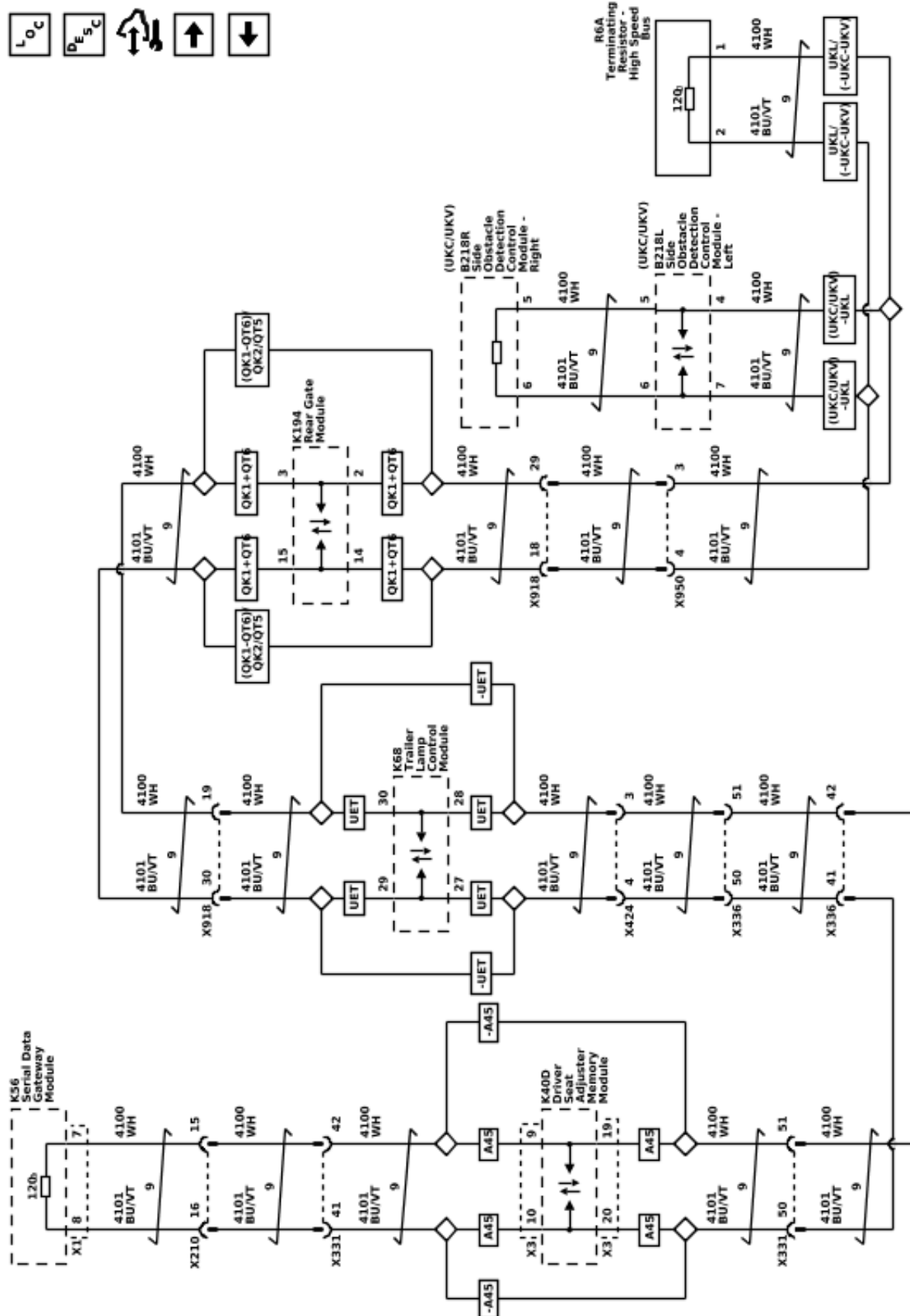
Data Communication Schematics (CAN 2 - 2 of 2)



Data Communication Schematics (CAN 3)



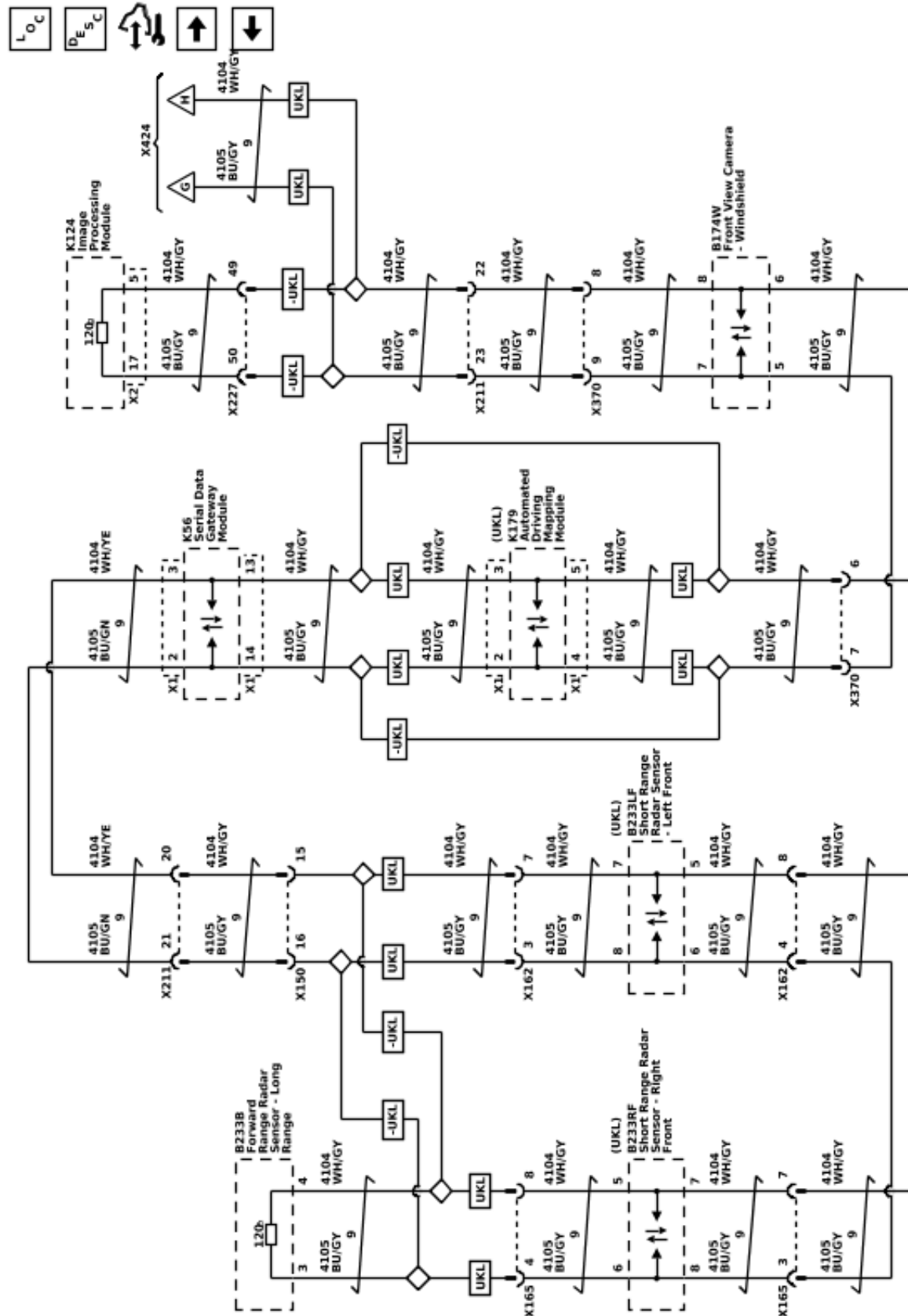
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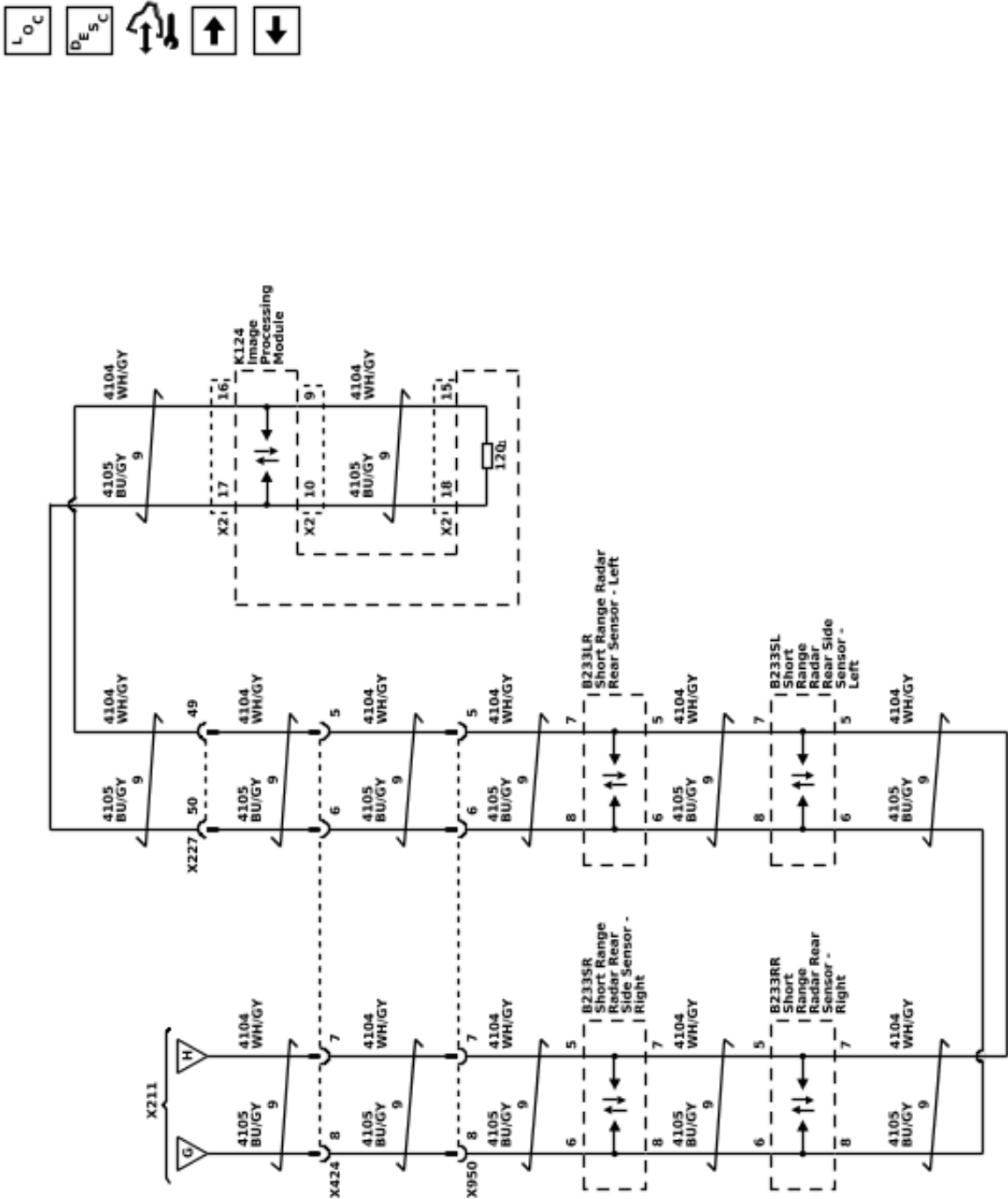


Data Communication Schematics (CAN 8 - 1 of 2 (UGN / UKL))

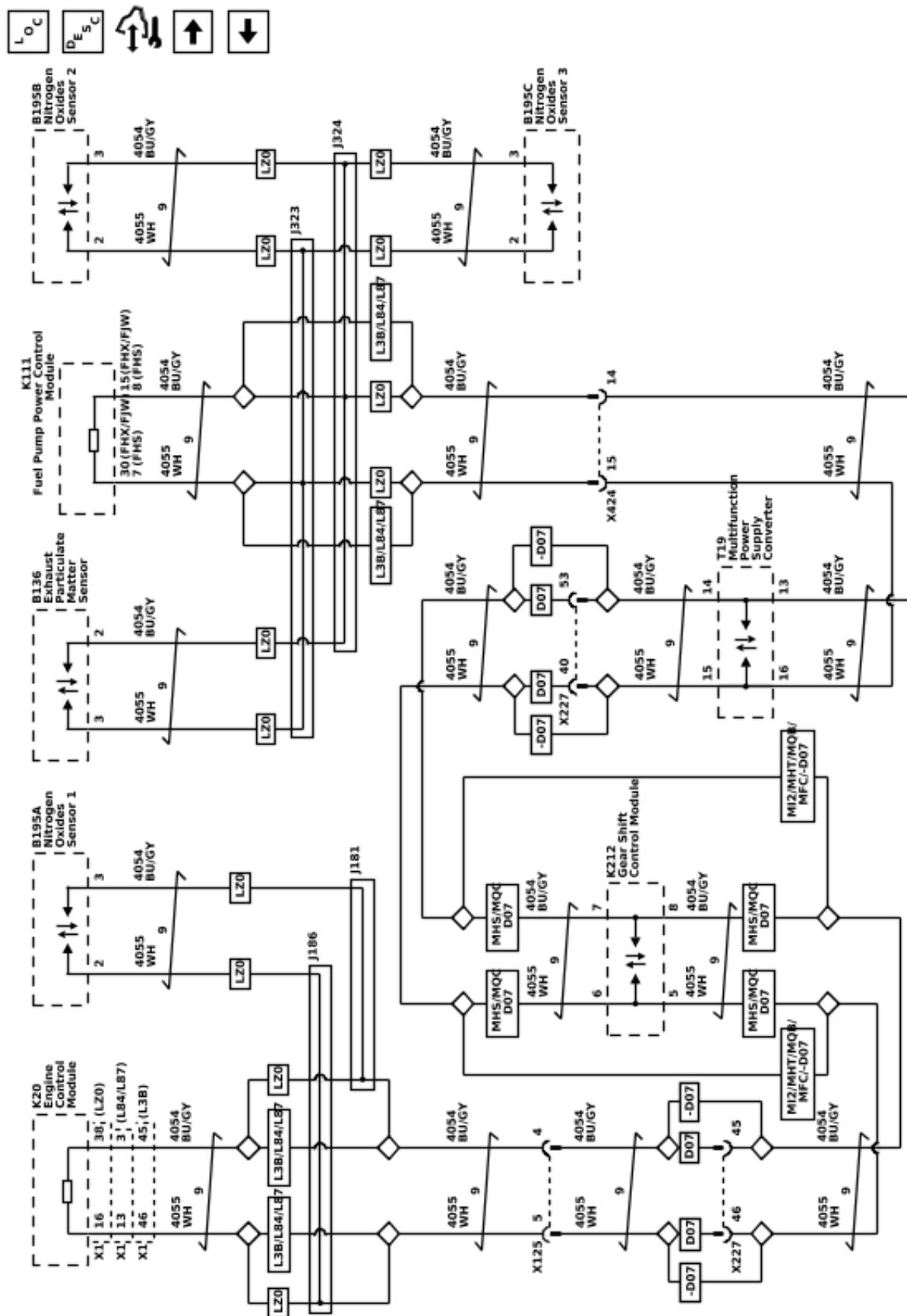


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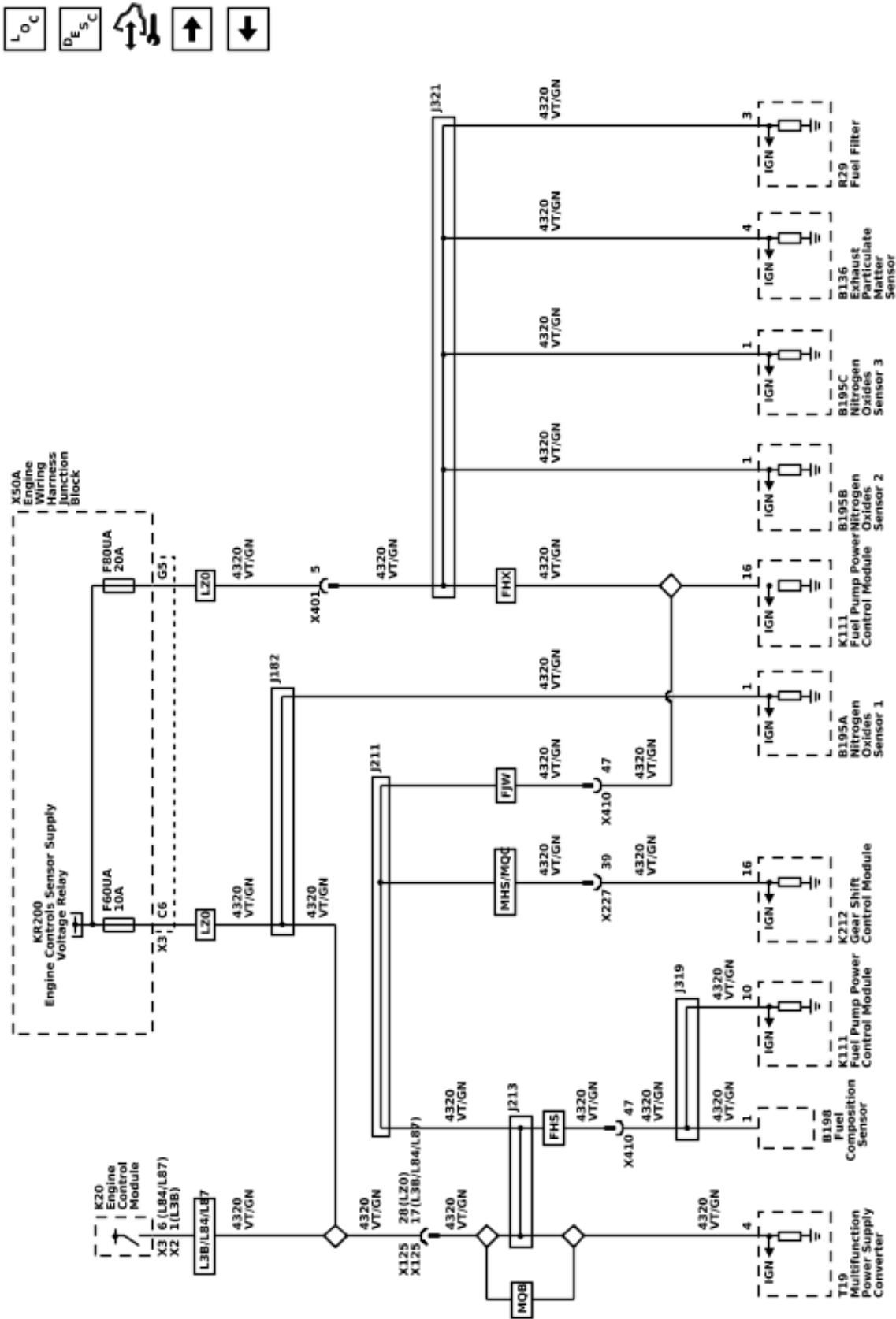
Data Communication Schematics (CAN 8 - 2 of 2 (UKL))



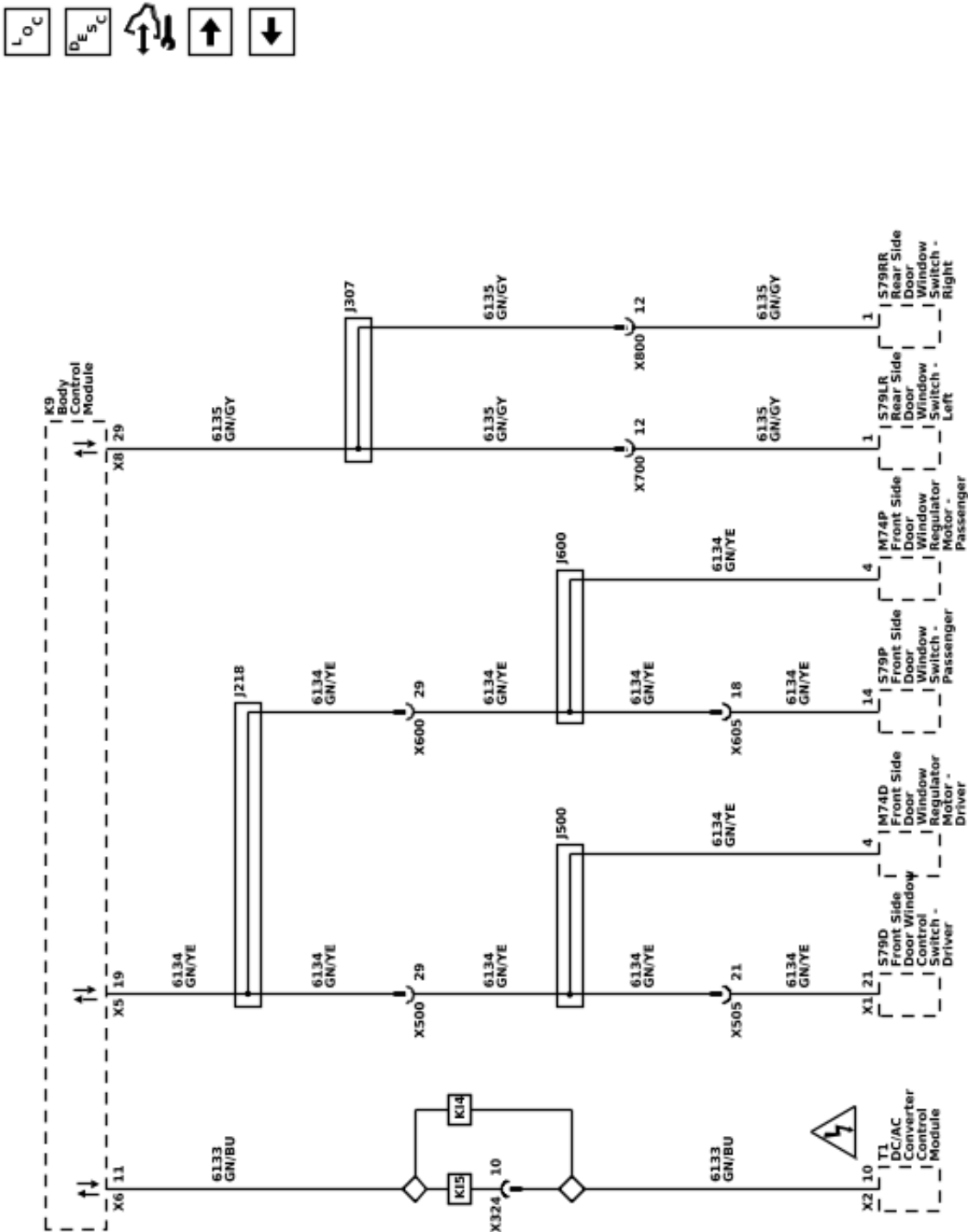
Data Communication Schematics (Powertrain CAN)



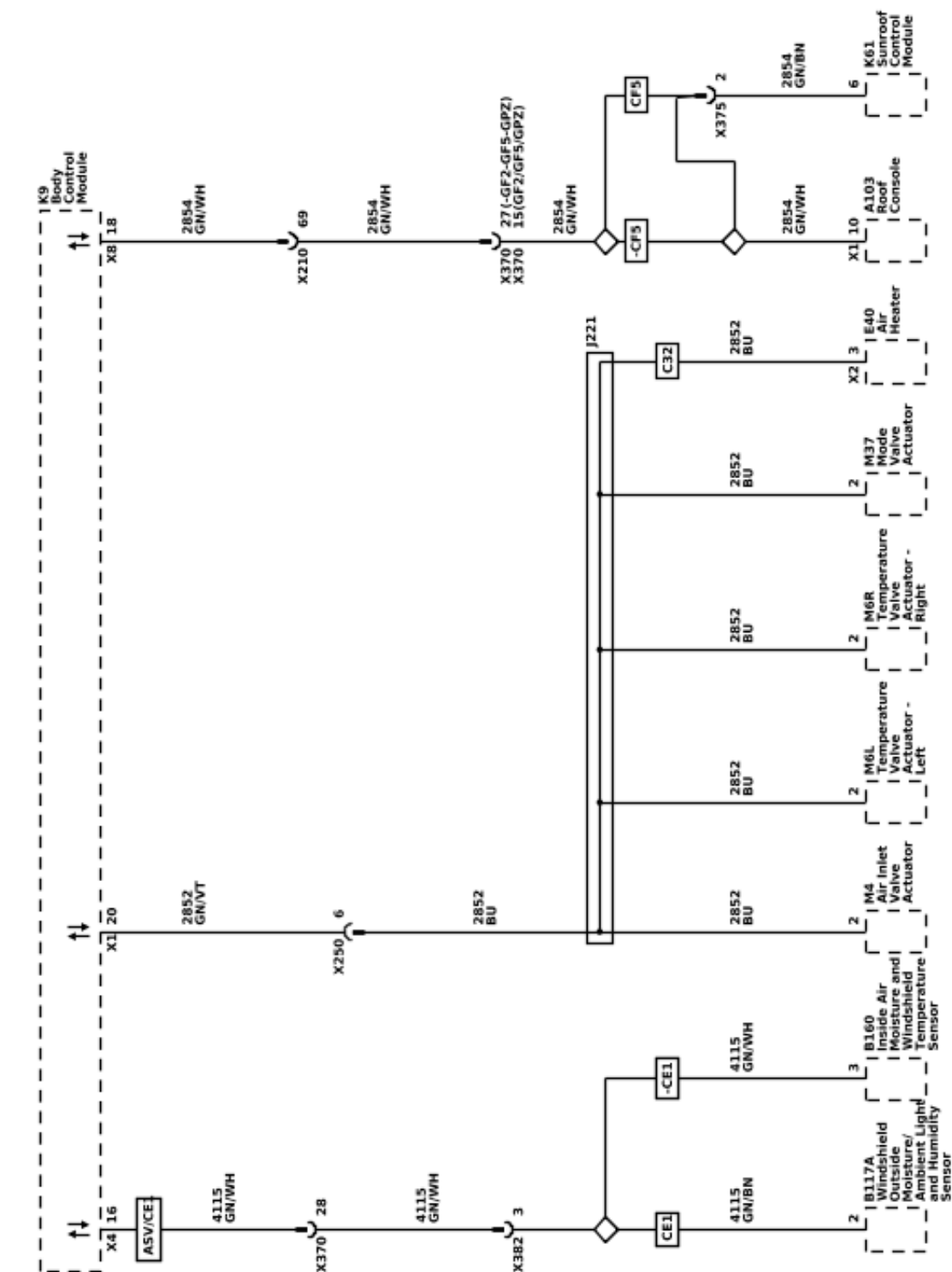
Data Communication Schematics (Powertrain CAN Enable)



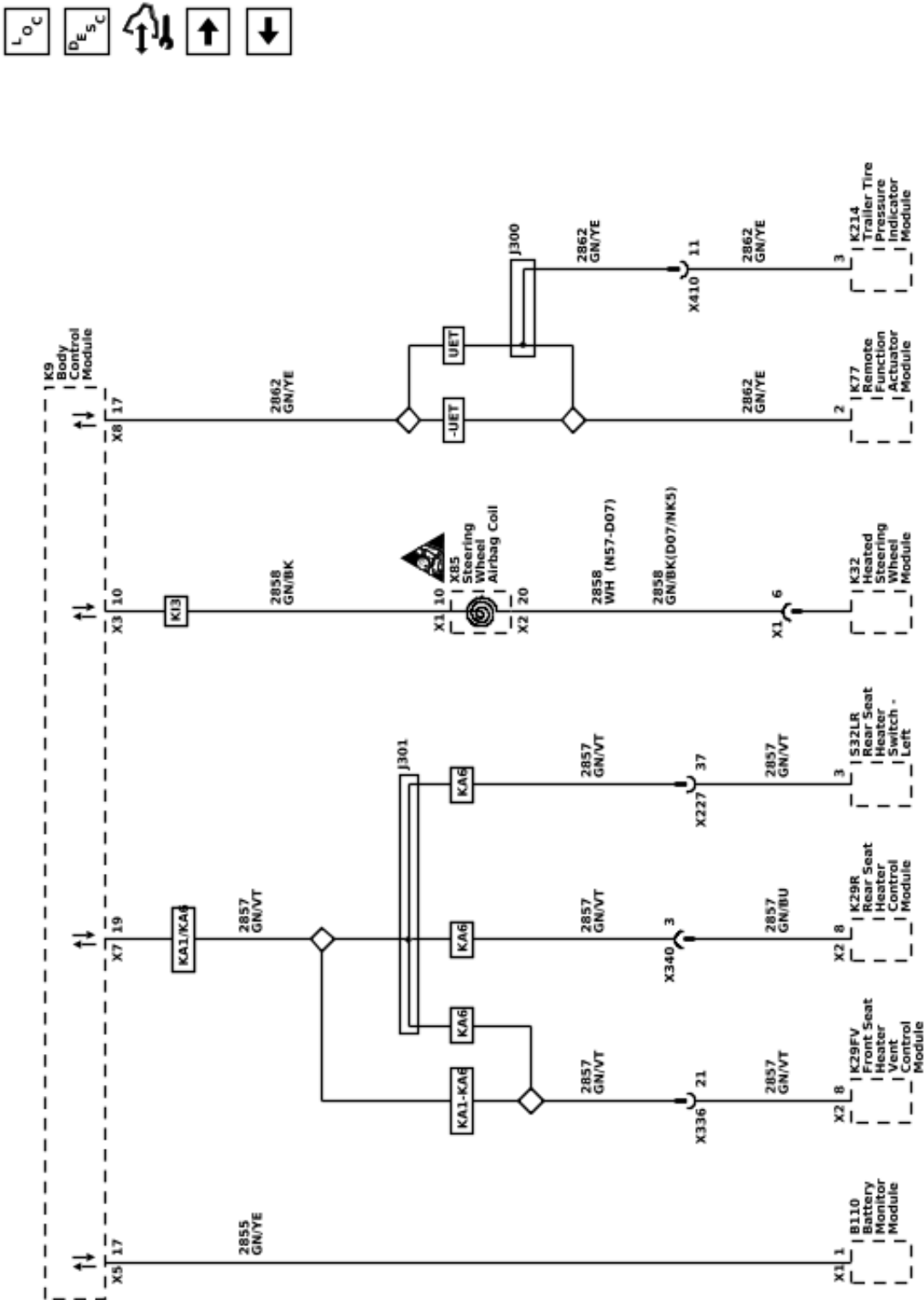
Data Communication Schematics (Body Control Module Local Interconnect Network LIN Busses 2, 3, and 4)



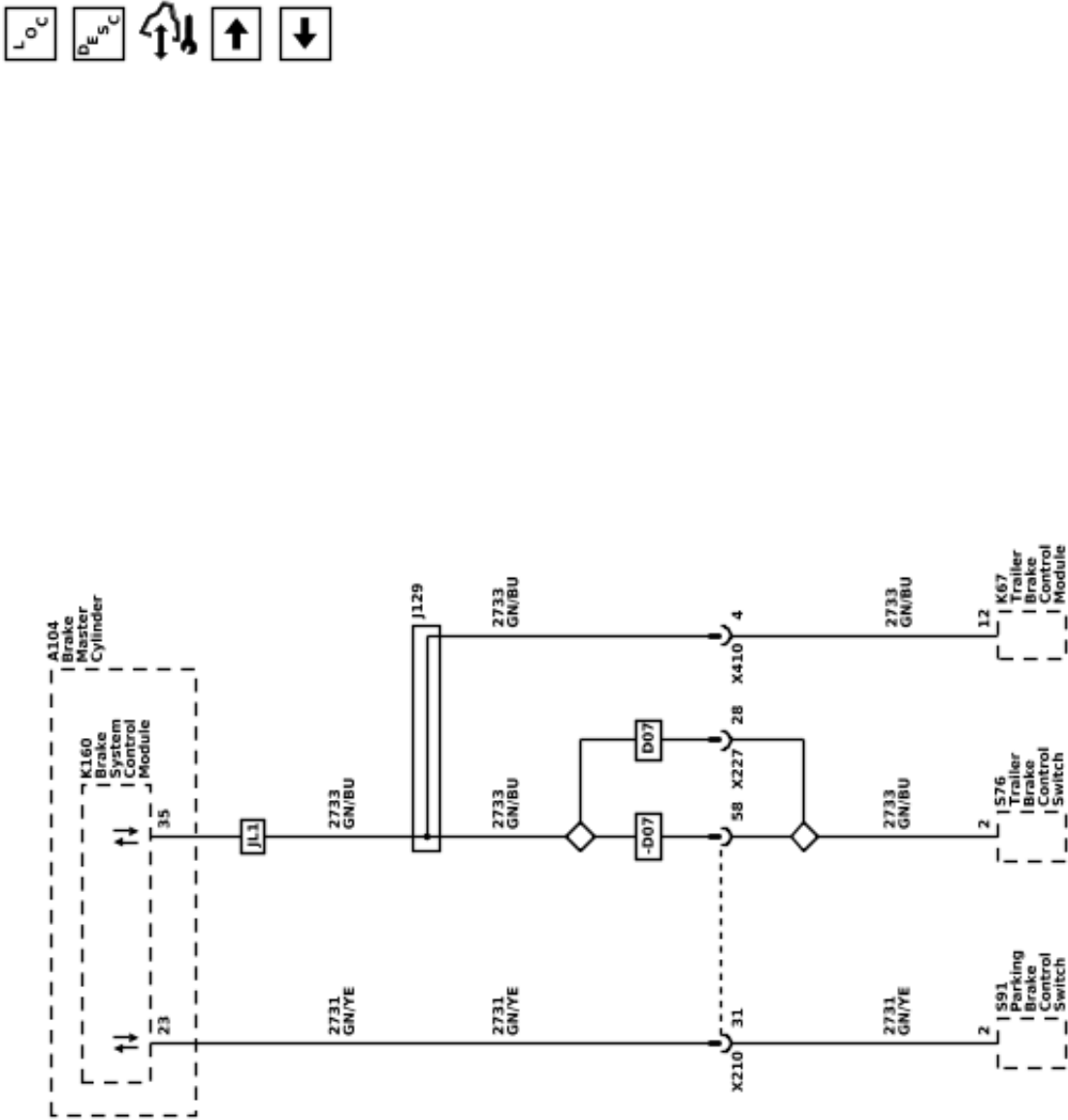
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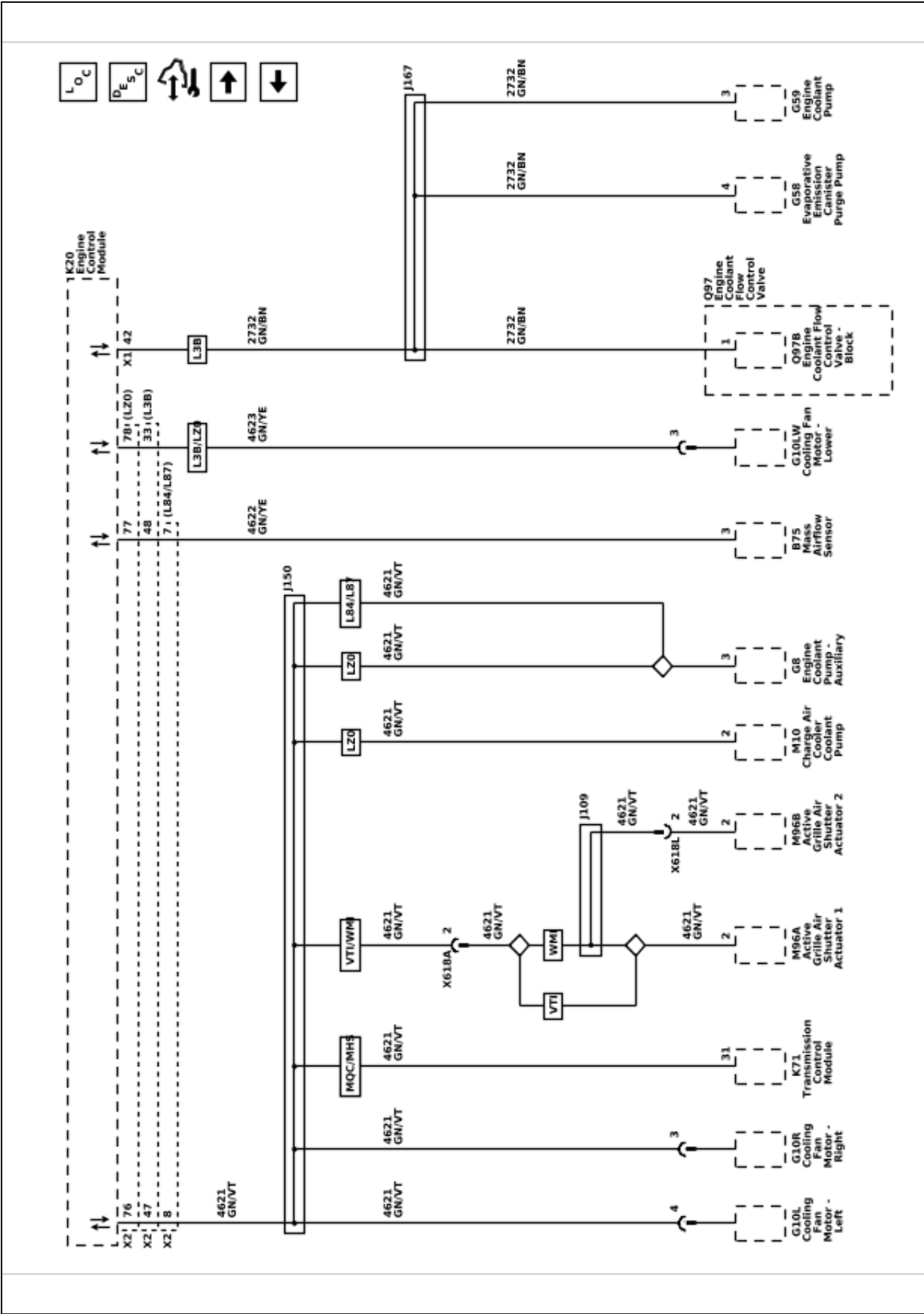
Data Communication Schematics (Body Control Module Local Interconnect Network LIN Busses 9, 11, 12, and 16)

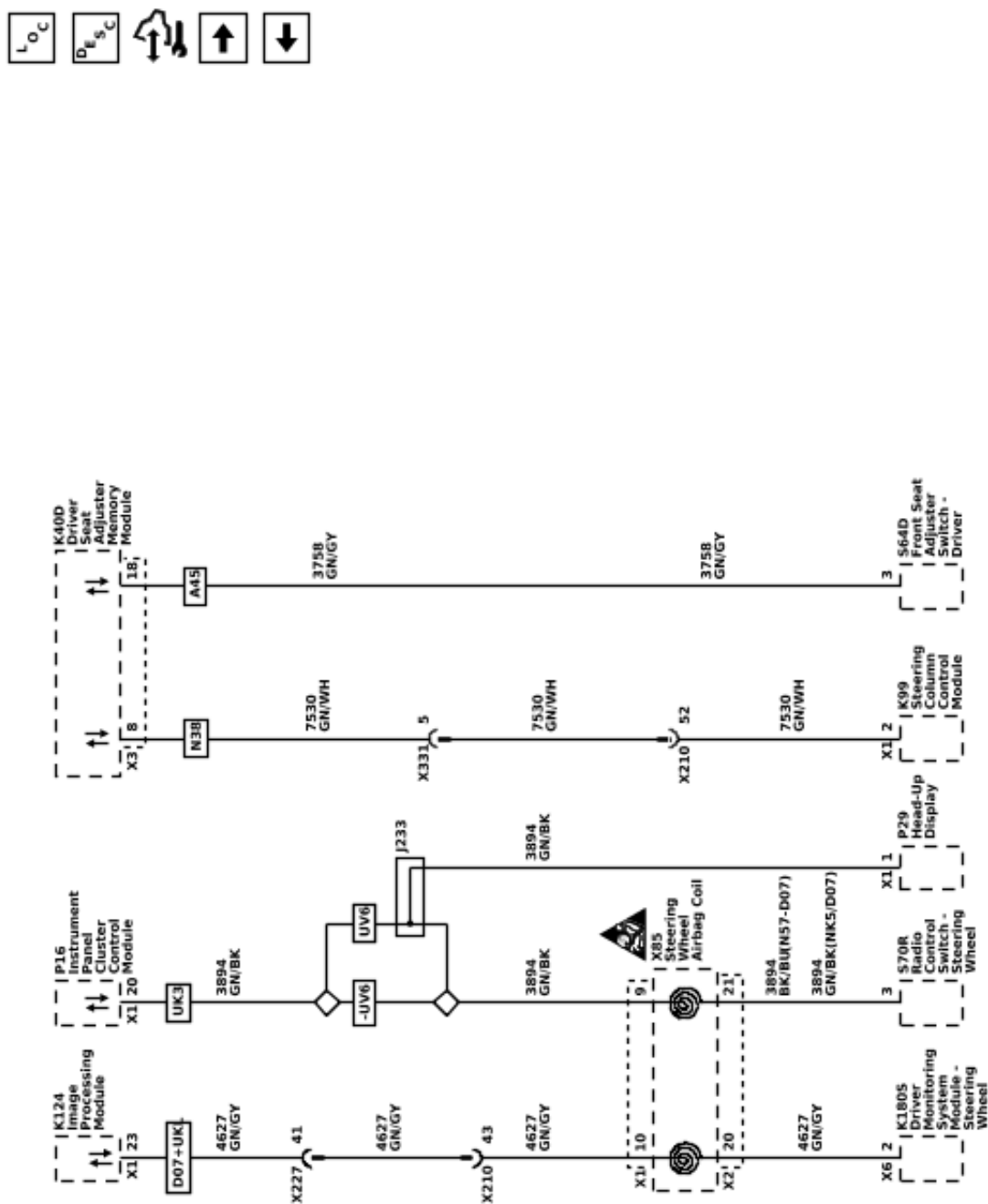


Data Communication Schematics (Brake System Control Module Local Interconnect Network LIN Busses)

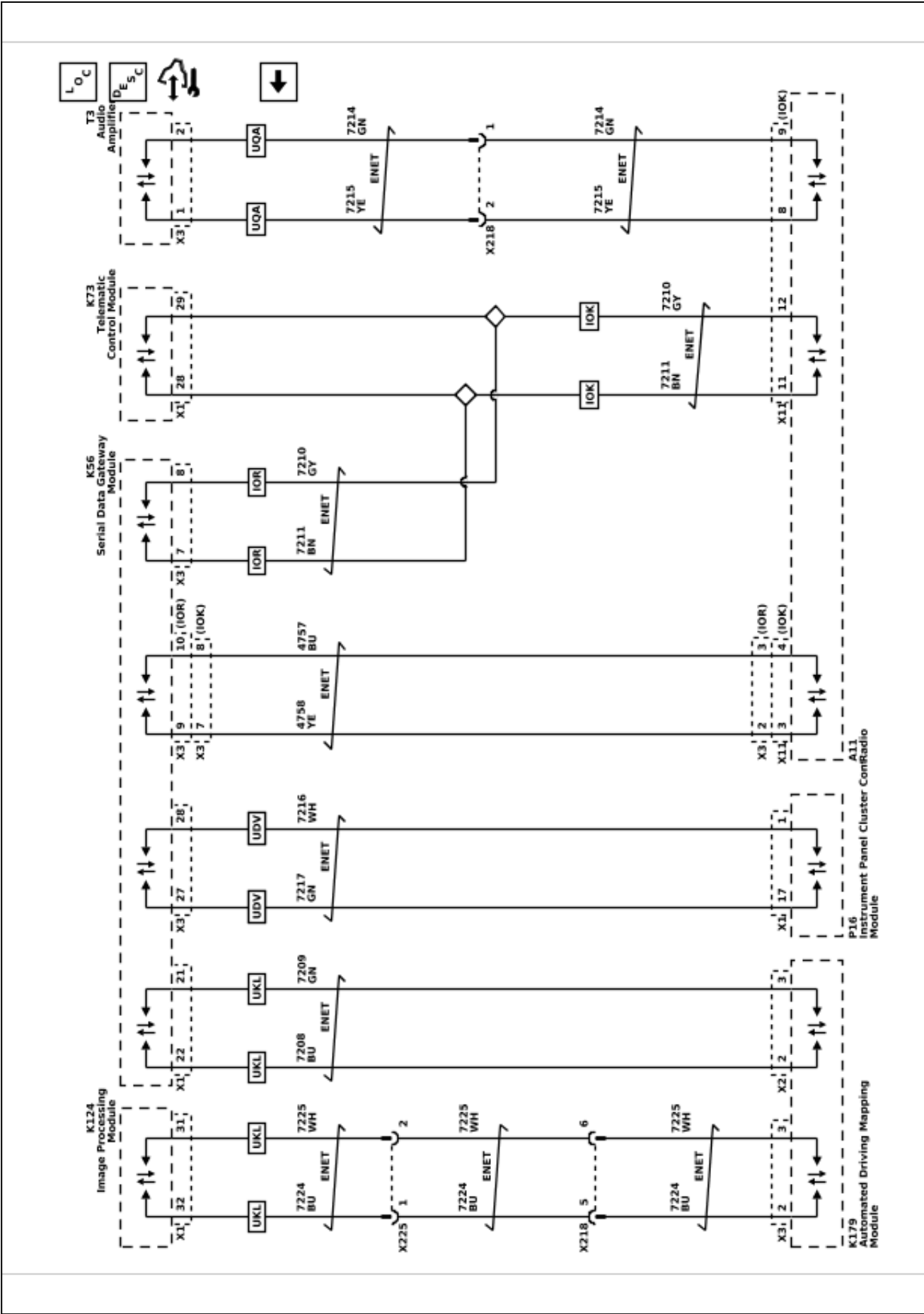


Data Communication Schematics (Engine Control Module Local Interconnect Network LIN Busses)

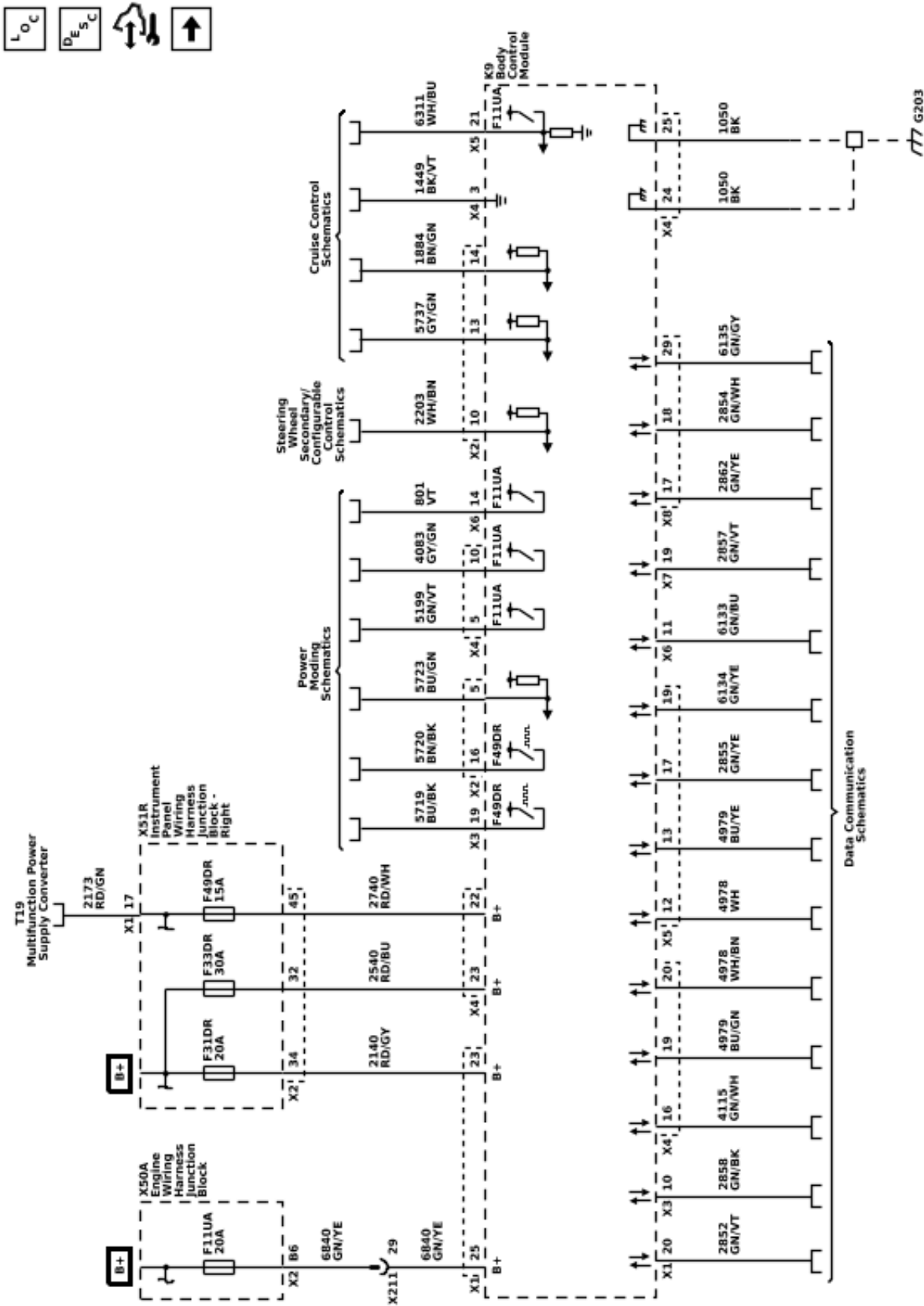




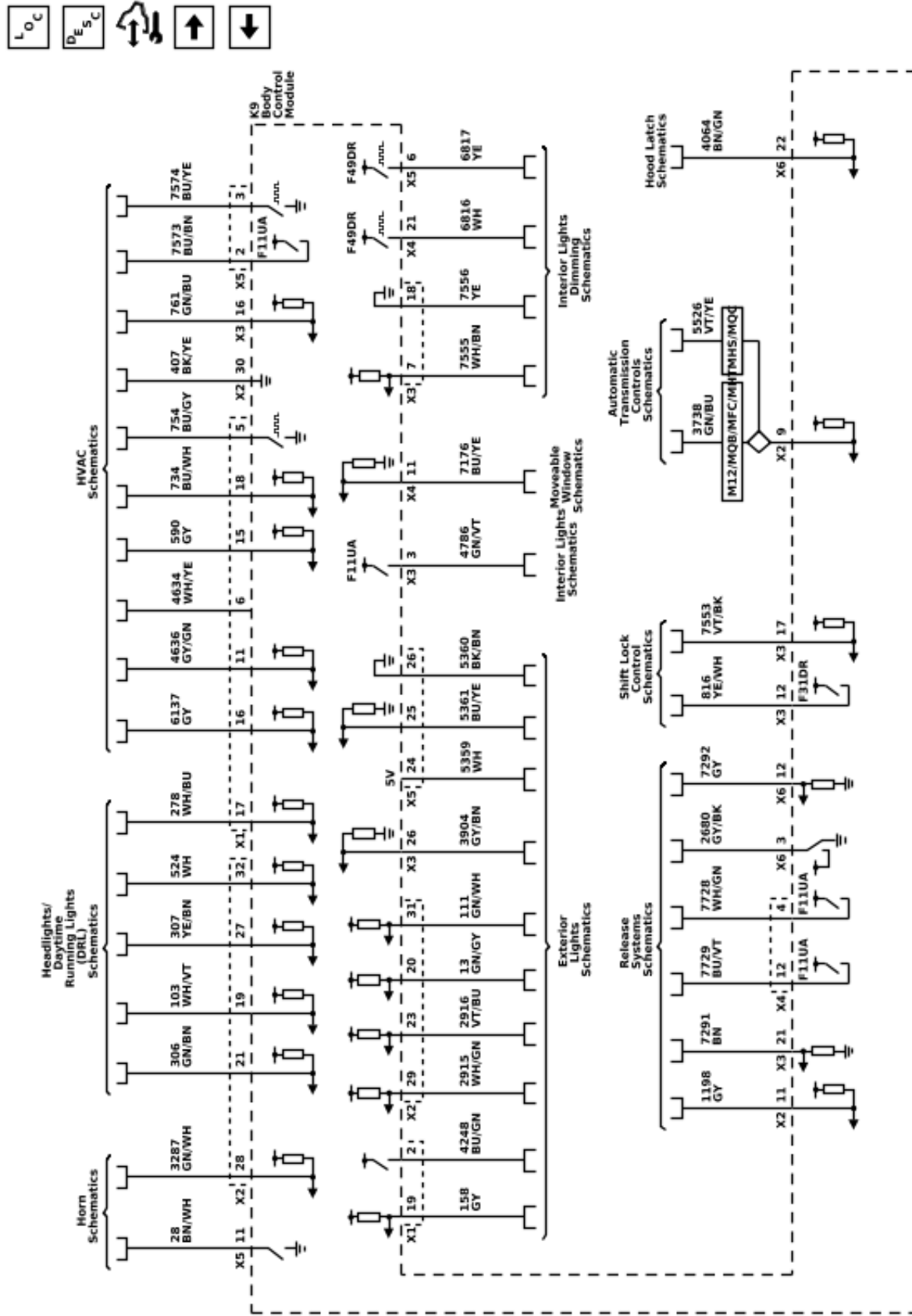
Data Communication Schematics (Ethernet Bus)



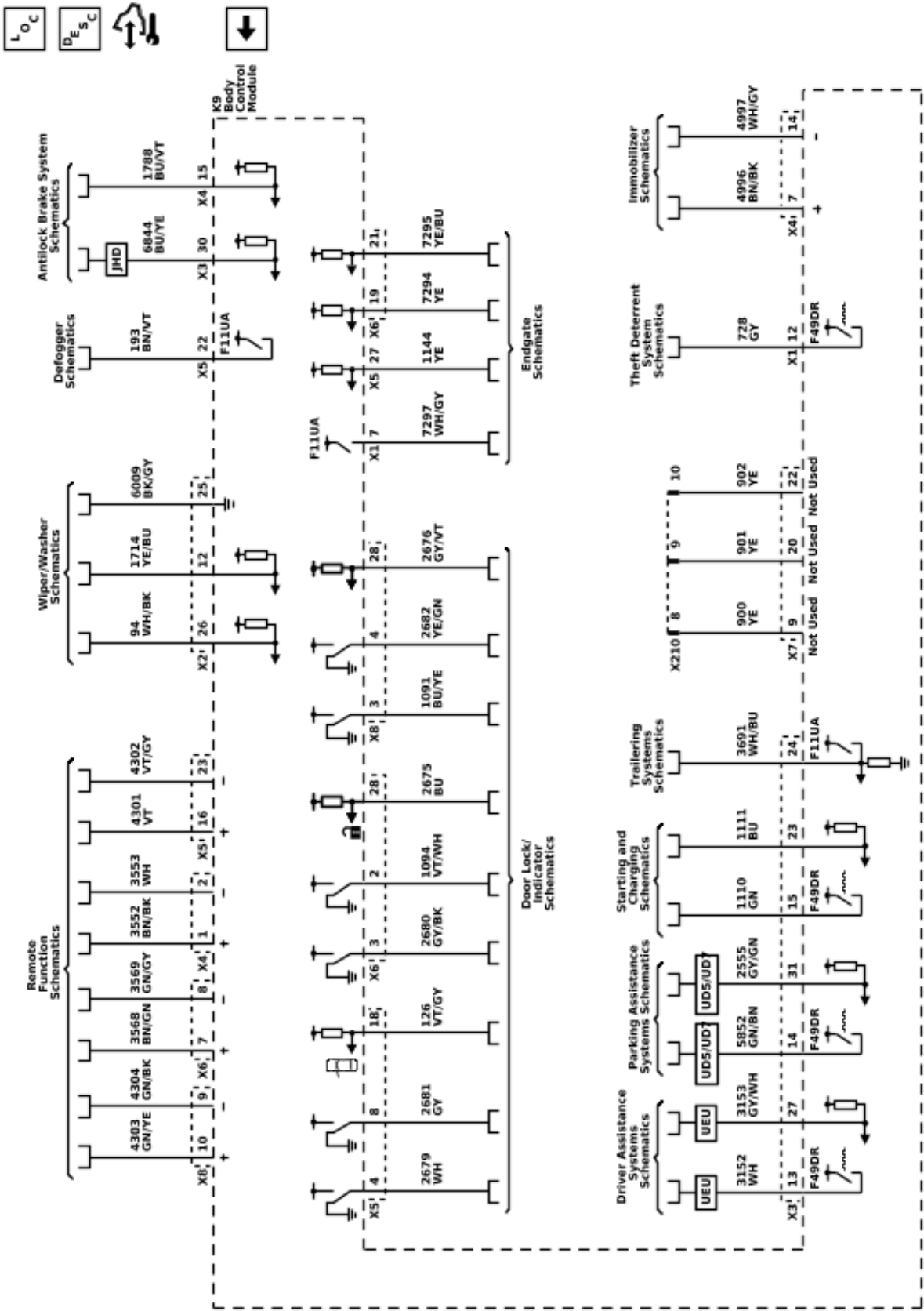
Body Control System Schematics (Power, Ground, Serial Data, and Subsystem References - 1 of 3)



Body Control System Schematics (Subsystem References - 2 of 3)



Body Control System Schematics (Subsystem References - 3 of 3)



Description and Operation

Data Link Communications Description and Operation

Note: This is an overview of different serial data buses used by control modules to communicate with each others. Use *Data Communication Schematics 6-3* to find out which serial data buses are configured for a specific vehicle.

Data Link Communications Overview

There are many components in a vehicle that rely on information from other sources, transmit information to other sources, or both. Serial data communication networks provide a reliable, cost effective, way for various components of the vehicle to “talk” to one another and share information.

General Motors uses a number of different communication buses to ensure the timely and efficient exchange of information between control modules. When compared to each other, some of these buses are different in nature as far as speed, signal characteristics, and behavior.

On the other hand, when other buses are compared to each other they have similar characteristics and simply operate in parallel. In this case they are used to group together components which have high interaction. Examples are the Controller Area Network (CAN), private CAN, and Local Interconnect Network (LIN) buses. This allows them to communicate with each other on a bus with reduced message congestion insuring faster and the more timely exchange of information than if all vehicle control modules were on a single bus.

The majority of information that exists within a given network generally stays local; however some information will have to be shared on other networks. Control modules designated as Gateways perform the function of transferring information between the various buses. A Gateway module is connected to at least 2 buses and will interact with each network according to its message strategy and transmission models.

CAN provides the capability for a receiving control module to monitor message transmissions from other control modules in order to determine if messages of interest are not being received. The primary purpose is to allow reasonable default values to be substituted for the information no longer being received. Additionally, a control module may set a Diagnostic Trouble Code (DTC) to indicate that the control module it is expecting information from is no longer communicating.

K9 Body Control Module (BCM)

The body control system consists of the K9 Body Control Module, communications, and various input and outputs. Some inputs, outputs and messages require other control modules to interact with the K9 Body Control Module. The K9 Body Control Module also has discrete input and output terminals to control the vehicle's body functions. The K9 Body Control Module is wired to CAN bus and multiple LIN buses and acts as a gateway between them.

The various K9 Body Control Module input and output circuits are illustrated in the corresponding functional areas on the K9 Body Control Module electrical schematics. Refer to the *Body Control System Schematics 6-23* for more detailed information.

K56 Serial Data Gateway Module

The K56 Serial Data Gateway Module gates messages between the CAN networks described in the Controller Area Network (CAN) Bus Description section below. The K56 Serial Data Gateway Module needs to know what CAN control modules are present on a given vehicle in order to enable/disable loss of communication DTCs and to know which CAN control modules to track for their communication status. The K56 Serial Data Gateway Module has the ability to learn the diagnostic addresses list of CAN control modules to identify what CAN control modules are equipped on the vehicle and what CAN buses they are on. If the K56 Serial Data Gateway Module is replaced, this learn/verification process will have to be done again through K56 Serial Data Gateway Module programming and setup procedure in SPS. This learn process will not cause any previously learned contents to be forgotten/overwritten. If the learn process is not done on a new K56 Serial Data Gateway Module, DTC U1977 will be set until the learn procedure is executed. If the learn is invalid due to control module internal malfunction or a K56 Serial Data Gateway Module swap, DTC U3000 42 or DTC U3002 56 will be set. If any of these DTCs sets, the K56 Serial Data Gateway Module will enable loss of communication for all CAN control modules. This will result in loss of communication DTCs being set against CAN control modules that are not equipped on the vehicle.

A fault can be localized by monitoring the normal mode messages on a CAN bus. The K56 Serial Data Gateway Module will monitor one signal per CAN control module per CAN bus to determine control module status. When a signal times out, a loss of communication event will be started.

Controller Area Network (CAN) Bus Description

The CAN buses are used where data needs to be exchanged at a high enough rate to minimize the delay between the occurrence of a change in sensor value and the reception of this information by a control device using the information to adjust vehicle system performance.

Each CAN serial data network consists of two twisted wires. One signal circuit is identified as CAN-High and the other signal circuit is identified as CAN-Low. At each end of the data bus there is a 124 Ω termination resistor between the CAN-High and CAN-Low circuits. Most CAN control modules have an internal resistance of 4.950K Ω . There may be one or two CAN control modules that have a higher internal resistance like the K60 Column Lock Module which has an internal resistance of 77.4K Ω . The internal resistance of CAN control modules causes lower terminating resistor reading when splitting the CAN network to check for faults. The more CAN control modules on the network the lower the terminating resistor will read.

The data to be transmitted over a CAN bus is represented by the voltage difference between the CAN-High signal voltage and the CAN-Low signal voltage. Data symbols (1's and 0's) are transmitted sequentially at the following rate:

- CAN 1 (circuits 4986 & 4987) = 500 Kbit/s
- CAN 2 (circuits 4978 & 4979) = 2 Mbit/s
- CAN 3 (circuits 4976 & 4977) = 500 Kbit/s
- CAN 4 (circuits 4100 & 4101) = 500 Kbit/s
- CAN 5 (circuits 4984 & 4985) = 500 Kbit/s
- CAN 6 (circuits 4980 & 4981) = 5 Mbit/s
- CAN 7 (circuits 4982 & 4983) = 5 Mbit/s
- CAN 8 (circuits 4104 & 4105) = 2 Mbit/s
- CAN 9 (circuits 4102 & 4103) = 2 Mbit/s
- CAN 10 (circuits 10800 & 10801) = 2 Mbit/s

Classical CAN: CAN 1, CAN 3, CAN 4, and CAN 5 are Classical CAN buses. In Classical CAN, the entire message is transmitted at the same baud rate. The size of the data field is limited to 8 bytes.

CAN FD: CAN 2, CAN 8, CAN 9, and CAN 10 are CAN FD buses (FD = Flexible Data-Rate). In CAN FD, the data field of the message is transmitted at the same or at a faster baud rate. The size of the data field can be up to 64 bytes in length.

When the two wire bus is at rest the CAN-High and CAN-Low signal circuits are not being driven and this represents a logic "1". In this state both signal circuits are at the same voltage of 2.5 V. The differential voltage is approximately 0 V.

When a logic "0" is to be transmitted, the CAN-High signal circuit is driven higher to about 3.5 V and the CAN-Low circuit is driven lower to about 1.5 V. The differential voltage becomes approximately 2.0 (+/- 0.5) V.

The CAN 1, CAN 2, CAN 3, CAN 4, CAN 5, CAN 8, CAN 9, and CAN 10 buses are used to communicate between the K56 Serial Data Gateway Module and other CAN control modules.

The CAN 8 and CAN 9 buses are reserved for the following systems:

- The CAN 8 bus is reserved for most control modules and sensors related to active safety system, if applicable.
- The CAN 9 bus is reserved for most control modules and sensors related to Hybrid/EV system, if applicable.

The following CAN buses are between the X84 Data Link Connector and the K56 Serial Data Gateway Module:

- The CAN 6 bus is used for CAN diagnostics and programming.
- The CAN 7 bus is used for programming by assembly plant only.
- The Private Presentation CAN 1 bus (circuits 2577 & 2578) is used by Engineering to observe data communications on CAN buses not directly accessible at the X84 Data Link Connector. It requires special security access and will not be used in a service environment.
- The Private Presentation CAN 2 bus (circuits 2579 & 2580) is used by Engineering to observe data communications on CAN buses not directly accessible at the X84 Data Link Connector. It requires special security access and will not be used in a service environment.

Private Powertrain CAN Bus Description

The Private Powertrain CAN bus (circuits 4054 & 4055) is reserved for Powertrain components. It has a transmission rate of 500 Kbit/s. Sometimes communication is required between the Private Powertrain CAN bus and another CAN bus. This is accomplished by using the K20 Engine Control Module / K45 Powertrain Control Module (for gas vehicles) or K16 Battery Energy Control Module (for electric vehicles) as the Gateway module. Since the Private Powertrain CAN bus and other CAN buses operate in the same manner, the diagnostics for each are similar.

Local Interconnect Network (LIN) Bus Description

The LIN Bus consists of a single wire with a transmission rate of 10.417 Kbit/s or 19.23 Kbit/s. This bus is used to exchange information between a master control module and other smart devices which provide supporting functionality. This type of configuration does not require the capacity or speed of a CAN bus and is thus relatively simpler.

The data symbols (1's and 0's) to be transmitted are represented by different voltage levels on the communication bus. When the LIN Bus is at rest and is not being driven, the signal is in a high voltage state of approximately V_{batt} . This represents a logic "1". When a logic "0" is to be transmitted, the signal voltage is driven low to about ground (0.0 V).

Ethernet Bus Description

Ethernet is a data communication technology that uses a single twisted copper pair of wires at speeds of 100 Mbit/s and 1000 Mbit/s. The Ethernet system uses point-to-point communication that is connected via an Ethernet switch [Module <--> Switch <--> Module]. The Ethernet bus does not use terminating resistors.

The K56 Serial Data Gateway Module and the A11 Radio have an Ethernet switch that connects to other Ethernet modules. The K56 Serial Data Gateway Module and the A11 Radio communicate with other devices and systems in the vehicle via CAN and LIN buses. Diagnostic Trouble Codes will be read on CAN to diagnose Ethernet, LIN and system faults.

Note: Ethernet harness failures should only be repaired using an appropriate kit to perform de-pin/re-pin overlays or in cases where the wiring harness repair kits are not available, the entire harness should be replaced. No crimps or splicing should be performed on the Ethernet wiring harness.

Ethernet 1

Ethernet bus 1 consists of 2 twisted pair of wires [1 pair for Ethernet bus 1R (circuits 4972 & 4973) and 1 pair for Ethernet bus 1T (circuits 4974 & 4975)]. It is connected between X84 Data Link Connector (DLC) and K56 Serial Data Gateway Module. This bus is used for diagnostics and service programming of control modules using Ethernet instead of CAN. The K56 Serial Data Gateway Module will convert Ethernet serial data to CAN as necessary, and vice versa. There is an Ethernet enable circuit (circuit 7207) which can be used to wake up the K56 Serial Data Gateway Module for Ethernet diagnostic and programming.

Ethernet 2

Ethernet bus 2 (circuits 4757 & 4758) is for connection between the A11 Radio and the K56 Serial Data Gateway Module.

Ethernet 3

Ethernet bus 3 (circuits 7208 & 7209) is for connection between the following control modules depending on vehicle configuration:

- K56 Serial Data Gateway Module and K179 Automated Driving Mapping Module.
- K56 Serial Data Gateway Module and K124 Image Processing Module.
- K56 Serial Data Gateway Module and B174W Front View Camera - Windshield.

Ethernet 4

Ethernet bus 4 (circuits 7210 & 7211) is for connection between the following control modules:

- K56 Serial Data Gateway Module and K73 Telematic Control Module for vehicles equipped with IOR radio.
- A11 Radio and K73 Telematic Control Module for vehicles equipped with other radios.

Ethernet 5

Ethernet bus 5 (circuits 7212 & 7213) is for connection between the A11 Radio and P22F Video Display - Right Front Seat Back.

Ethernet 6

Ethernet bus 6 (circuits 7214 & 7215) is for connection between the A11 Radio and T3 Audio Amplifier.

Ethernet 7

Ethernet bus 7 (circuits 7216 & 7217) is for connection between the K56 Serial Data Gateway Module and P16 Instrument Panel Cluster Control Module or K190 Off-Board Charger Control Module.

Ethernet 11

Ethernet bus 11 (circuits 7224 & 7225) is for connection between the K124 Image Processing Module and K179 Automated Driving Mapping Module.

Ethernet 14

Ethernet bus 14 (circuits 7230 & 7231) is for connection between the A11 Radio and P29 Head-Up Display.

Ethernet 15

Ethernet bus 15 (circuits 7232 & 7233) is for connection between the K56 Serial Data Gateway Module, K161 Vehicle Performance Data Recorder, and P22F Video Display - Passenger Seat Back.

X84 Data Link Connector (DLC)

The X84 Data Link Connector is a standardized 16-cavity connector. Connector design and location is dictated by an industry wide standard, and is required to provide the following:

- Terminal 1: CAN Bus 7 Serial Data [+]
- Terminal 2: Private Presentation CAN Bus 1 Serial Data [+]
- Terminal 3: Ethernet Bus 1R [+]
- Terminal 4: Scan tool power ground
- Terminal 5: Common signal ground
- Terminal 6: CAN Bus 6 Serial Data [+]
- Terminal 7: Private Presentation CAN Bus 2 Serial Data [+]
- Terminal 8: Ethernet Bus 1 Enable Signal
- Terminal 9: CAN Bus 7 Serial Data [-]
- Terminal 10: Private Presentation CAN Bus 1 Serial Data [-]
- Terminal 11: Ethernet Bus 1R [-]
- Terminal 12: Ethernet Bus 1T [+]
- Terminal 13: Ethernet Bus 1T [-]
- Terminal 14: CAN Bus 6 Serial Data [-]
- Terminal 15: Private Presentation CAN Bus 2 Serial Data [-]
- Terminal 16: Scan tool power, B+

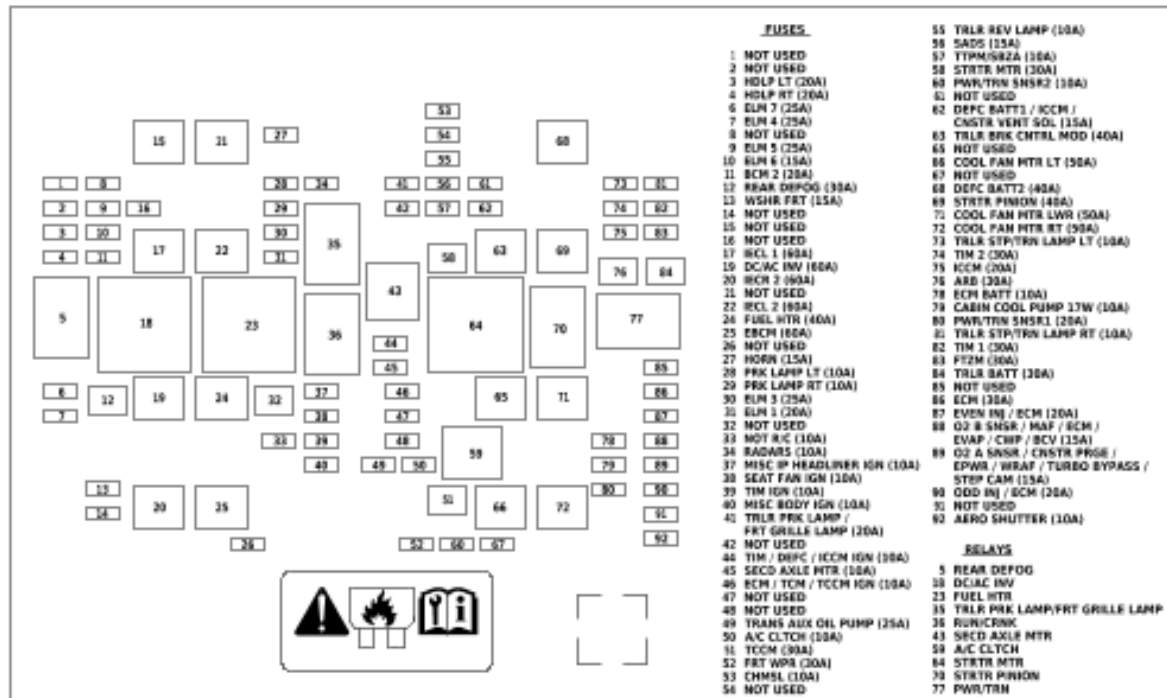
Serial Data Reference

The scan tool communicates over the various buses on the vehicle. When a scan tool is installed on a vehicle, the scan tool will try to communicate with every control module that could be optioned into the vehicle. If an option is not installed on the vehicle, the scan tool will display No Communication for that optional control module. In order to avert misdiagnoses of No Communication with a specific control module, refer to **Data Link References** for a list of control modules and the buses they communicate with. Use schematics and specific vehicle build RPO codes to determine optional control modules.

Electrical Component and Inline Harness Connector End Views

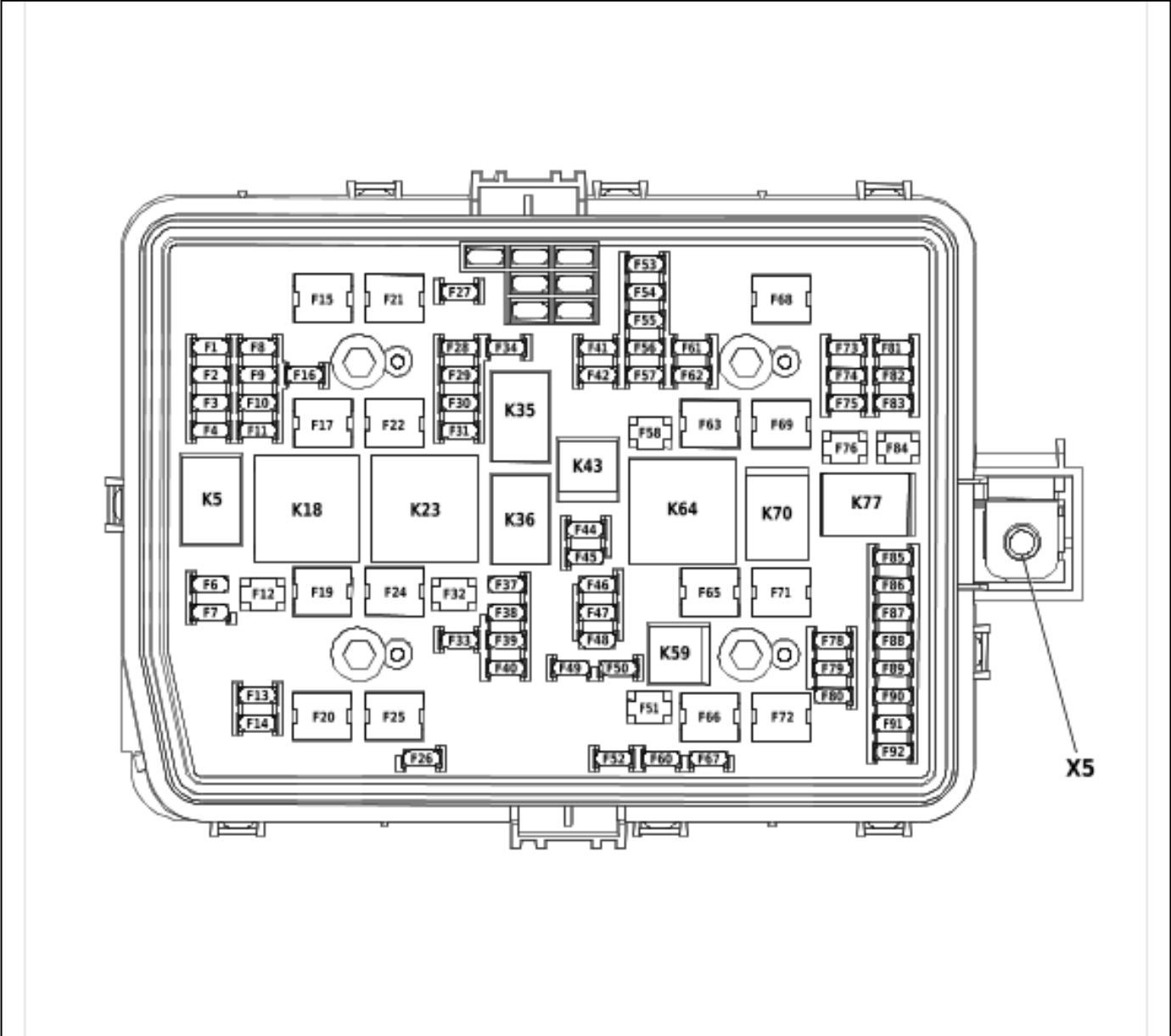
Component Locator

X50A Engine Wiring Harness Junction Block Label



5969415

X50A Engine Wiring Harness Junction Block Top View



6013389

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	NOT USED	F1UA	—	• Not Used
F2	NOT USED	F2UA	—	• Not Used
F3	HDLP LT	F3UA	20A	• E13LA Front Headlamp - Left
F4	HDLP RT	F4UA	20A	• E13RA Front Headlamp - Right
F6	ELM 7	F6UA	25A	• Not Used
F7	ELM 4	F7UA	25A	• K219 Lighting Control Module
F8	NOT USED	F8UA	—	• Not Used
F9	ELM 5	F9UA	25A	• Not Used

No.	Device Label Name	Device Assigned Name	Rating	Description
F10	ELM 6	F10UA	15A	• K219 Lighting Control Module
F11	BCM 2	F11UA	20A	• K9 Body Control Module
F12	REAR DEFOG	F12UA	30A	• E18 Rear Window Defogger Grid
F13	WSHR FRT	F13UA	15A	• G24 Windshield Washer Pump
F14	NOT USED	F14UA	—	• Not Used
F15	NOT USED	F15UA	—	• Not Used
F16	NOT USED	F16UA	—	• Not Used
F17	IECL 1	F17UA	60A	• X53AF Body Wiring Harness Junction Block
F19	DC/AC INV	F19UA	60A	• T1 DC/AC Converter Control Module ((K14/K15)-08R)
F20	IECR2	F20UA	60A	• X51R Instrument Panel Wiring Harness Junction Block - Right
F21	NOT USED	F21UA	—	• Not Used
F22	IECL 2	F22UA	60A	• X53AF Body Wiring Harness Junction Block
F24	FUEL HTR	F24UA	40A	• R29 Fuel Filter (LZ0)
F25	EBCM	F25UA	60A	• K160 Brake System Control Module
F26	NOT USED	F26UA	—	• Not Used
F27	HORN	F27UA	15A	• P13 Horn
F28	PARK LAMP LT	F28UA	10A	• A9A Outside Rearview Mirror - Driver (DPO/DQS) • A9B Outside Rearview Mirror - Passenger (DPO/DQS) • E135L Front Bumper Fascia Auxiliary Signal Lamp - Left (GRZ) • E135R Front Bumper Fascia Auxiliary Signal Lamp - Right (GRZ)
F29	PARK LAMP RT	F29UA	10A	• Not Used
F30	ELM 3	F30UA	25A	• K219 Lighting Control Module
F31	ELM 1	F31UA	20A	• K219 Lighting Control Module
F32	NOT USED	F32UA	—	• Not Used
F33	NOT R/C	F33UA	10A	• K60 Column Lock Module
F34	RADARS	F34UA	10A	• B233B Forward Range Radar Sensor - Long Range (UGN) • B233LF Short Range Radar Sensor - Left Front (UKL) • B233RF Short Range Radar Sensor - Right Front (UKL) • B233LR Short Range Radar Rear Sensor - Left (UKL) • B233RR Short Range Radar Rear Sensor - Right (UKL) • B233SL Short Range Radar Rear Side Sensor - Left (UKL) • B233SR Short Range Radar Rear Side Sensor - Right (UKL)

No.	Device Label Name	Device Assigned Name	Rating	Description
F37	MISC IP HEADLINER IGN	F37UA	10A	- A10 Inside Rearview Mirror - B117A Windshield Outside Moisture/Ambient Light and Humidity Sensor (ASV+CE1) - B160 Inside Air Moisture and Windshield Temperature Sensor (ASV-CE1) - E40 Air Heater (C32) - P16 Instrument Panel Cluster Control Module - P43 Forward Collision Alert Display ((UEU/UHX)-UV6)
F38	SEAT FAN IGN	F38UA	10A	- M73A Front Seat Back Ventilation Blower - Driver (KQV) - M73B Front Seat Back Ventilation Blower - Passenger (KQV) - M73D Front Seat Cushion Ventilation Blower - Driver (KQV) - M73P Front Seat Cushion Ventilation Blower - Passenger (KQV)
F39	NOT USED	F39UA	10A	K68 Trailer Lamp Control Module (UET)
F40	MISC BODY IGN	F40UA	10A	- K36 Restraints Control Module - K160 Brake System Control Module - K212 Gear Shift Control Module (MHS/MQC) - K219 Lighting Control Module - T1 DC/AC Converter Control Module (KI4/KI5)
F41	TRLR PRK LAMP / GRT GRILLE LAMP	F41UA	20A	X88B Tow Vehicle Electrical Receptacle (Z82-UET)
F42	NOT USED	F42UA	—	Not Used
F44	TIM / DEFC / ICCM IGN	F44UA	10A	- K38 Chassis Control Module (G93/G94) - K115 Reductant Control Module (FHX)
F45	SECD AXLE MTR	F45UA	10A	M26 Front Drive Axle Actuator (NP0/NQH)
F46	ECM / TCM / TCCM IGN	F46UA	15A	- K20 Engine Control Module - K69 Transfer Case Control Module (NP0/NQH) - K71 Transmission Control Module
F47	NOT USED	F47UA	—	Not Used
F48	NOT USED	F48UA	—	Not Used
F49	TRANS AUX OIL PUMP	F49UA	25A	G5 Automatic Transmission Auxiliary Fluid Pump (MQB/MQC/MHT/MHS)
F50	A/C CLTCH	F50UA	10A	Q2 Air Conditioning Clutch
F51	TCCM	F51UA	30A	K69 Transfer Case Control Module (NP0/NQH)
F52	FRT WPR	F52UA	30A	M75 Windshield Wiper Motor
F53	CHMSL	F53UA	10A	E6A High Mount Stop and Cargo Lamp (Regular Cab)
F54	NOT USED	F54UA	—	Not Used
F55	TRLR REV LAMP	F55UA	10A	X88B Tow Vehicle Electrical Receptacle (Z82-UET)
F56	SADS	F56UA	15A	K19 Suspension Control Module (Z45)

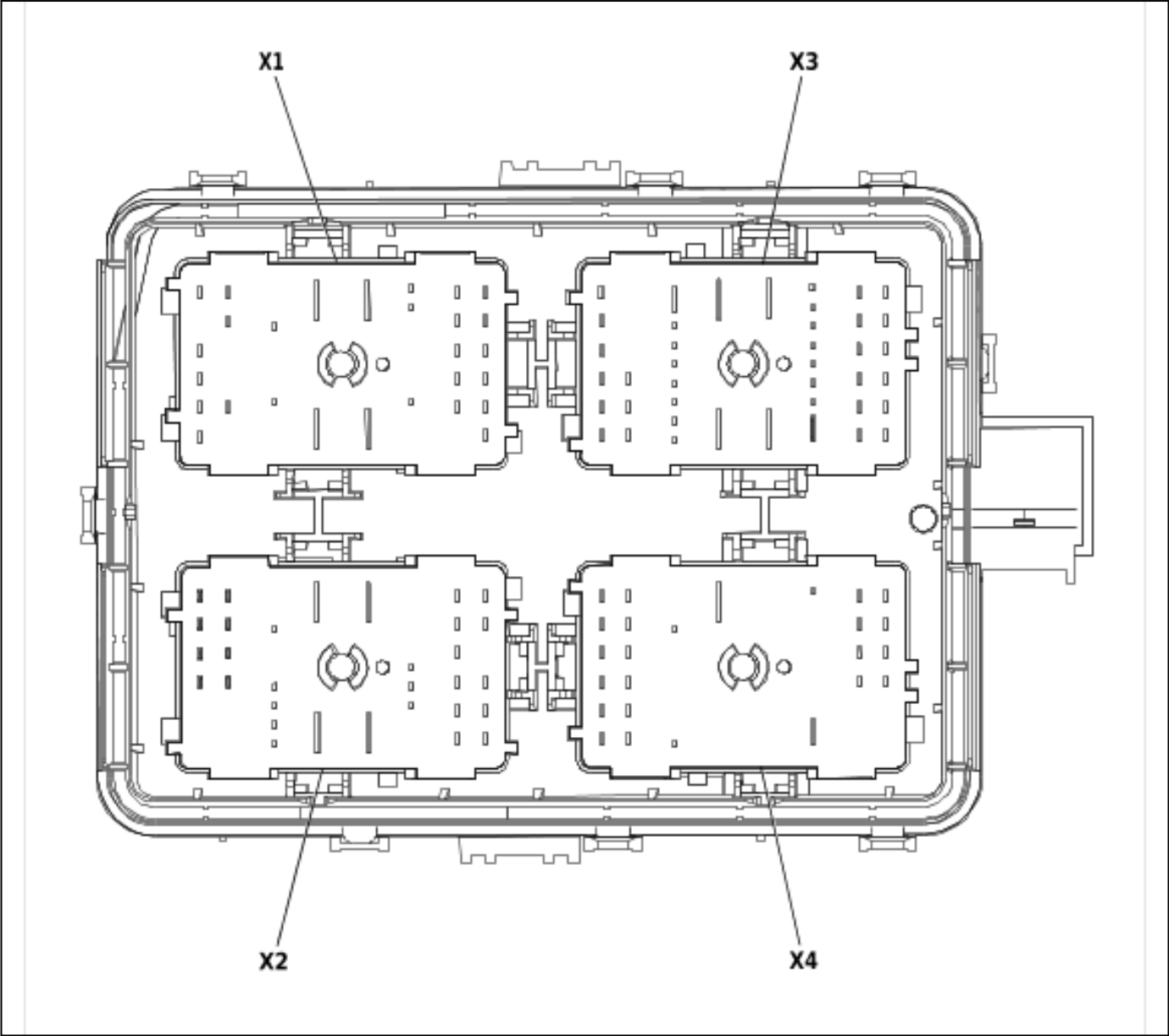
No.	Device Label Name	Device Assigned Name	Rating	Description
F57	TTPM/SBZA	F57UA	10A	- B218L Side Obstacle Detection Control Module - Left (UKC/UKV) - B218R Side Obstacle Detection Control Module - Right (UKC/UKV) - K214 Trailer Tire Pressure Indicator Module (UET)
F58	STRTR MTR	F58UA	30A	M64 Starter Motor
F60	PWR/TRN SNSR2	F60UA	10A	- B195A Nitrogen Oxides Sensor 1 (LZ0) - K212 Gear Shift Control Module (LZ0+MQC) - T19 Multifunction Power Supply Converter (LZ0)
F61	NOT USED	F61UA	—	Not Used
F62	DEFC BATT1 / ICCM / CNSTR VENT SOL	F62UA	15A	- K115 Reductant Control Module (LZ0) - Q13 Evaporative Emission Canister Vent Solenoid Valve (L3B/L84/L87)
F63	TRLR BRK CNTRL MOD	F63UA	40A	- K67 Trailer Brake Control Module (JL1) - W24 Blunt Cut - Trailer Brakes Provision (Z82-JL1)
F65	NOT USED	F65UA	—	Not Used
F66	COOL FAN MTR LT	F66UA	50A	G10L Cooling Fan Motor - Left
F67	NOT USED	F67UA	—	Not Used
F68	DEFC BATT2	F68UA	40A	K115 Reductant Control Module (LZ0)
F69	STRTR PINION	F69UA	40A	M64 Starter Motor (L3B/L84/L87)
F71	COOL FAN MTR LWR	F71UA	50A	G10LW Cooling Fan Motor - Lower (L3B/LZ0)
F72	COOL FAN MTR RT	F72UA	50A	G10R Cooling Fan Motor - Right (L3B/L84/L87)
F73	TRLR STP/TRN LAMP LT	F73UA	10A	X88B Tow Vehicle Electrical Receptacle (Z82-UET)
F74	TIM 2	F74UA	30A	K68 Trailer Lamp Control Module (UET)
F75	NOT USED	F75UA	—	K38 Chassis Control Module (G93/G94)
F76	ARB	F76UA	30A	K4 Running Board Control Module (BRS)
F78	ECM BATT	F78UA	10A	K20 Engine Control Module
F79	CABIN COOL PUMP 17W	F79UA	10A	G8 Engine Coolant Pump - Auxiliary (L84/L87/LZ0)
F80	PWR/TRN SNSR1	F80UA	20A	- B195B Nitrogen Oxides Sensor 2 (LZ0) - B195C Nitrogen Oxides Sensor 3 (LZ0) - B136 Exhaust Particulate Matter Sensor (LZ0) - K111 Fuel Pump Power Control Module (LZ0) - R29 Fuel Filter (LZ0)
F81	TRLR STP/TRN LAMP RT	F81UA	10A	X88B Tow Vehicle Electrical Receptacle (Z82-UET)
F82	TIM 1	F82UA	30A	K68 Trailer Lamp Control Module (UET)
F83	FTZM	F83UA	30A	K111 Fuel Pump Power Control Module
F84	TRLR BATT	F84UA	30A	X88B Tow Vehicle Electrical Receptacle (Z82)
F85	NOT USED	F85UA	—	Not Used
F86	ECM	F86UA	30A	K20 Engine Control Module

No.	Device Label Name	Device Assigned Name	Rating	Description
F87	EVEN INJ / ECM	F87UA	20A	• K20 Engine Control Module (L84/L87) • T8B Ignition Coil 2 (L84/L87) • T8D Ignition Coil 4 (L84/L87) • T8F Ignition Coil 6 (L84/L87) • T8H Ignition Coil 8 (L84/L87)
F88	O2 B SNSR / MAF / ECM / EVAP / CWP / BCV	F88UA	15A	• B52B Heated Oxygen Sensor 2 (L3B) • B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (L84/L87) • B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (L84/L87) • B75 Mass Airflow Sensor • G58 Evaporative Emission Canister Purge Pump (L3B) • K20 Engine Control Module • M10 Charge Air Cooler Coolant Pump (LZ0) • Q97B Engine Coolant Flow Control Valve - Block (L3B)
F89	O2 A SNSR / CNSTR PRGE / EPWR / WRAF / TURBO BYPASS / STEP CAM	F89UA	15A	• B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (L3B/L84/L87) • B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (L84/L87) • M129A Intake Camshaft Profile Actuator 1 (L3B) • M129B Intake Camshaft Profile Actuator 2 (L3B) • M129C Intake Camshaft Profile Actuator 3 (L3B) • M129D Intake Camshaft Profile Actuator 4 (L3B) • M130A Exhaust Camshaft Profile Actuator 1 (L3B) • M130B Exhaust Camshaft Profile Actuator 2 (L3B) • Q12 Evaporative Emission Canister Purge Solenoid Valve (L3B/L84/L87) • Q40 Turbocharger Bypass Valve Solenoid (L3B) • Q44 Engine Oil Pressure Control Solenoid Valve (L3B/L84/L87)
F90	ODD INJ / ECM	F90UA	20A	• K20 Engine Control Module • T8A Ignition Coil 1 (L3B/L84/L87) • T8B Ignition Coil 2 (L3B) • T8C Ignition Coil 3 (L3B/L84/L87) • T8D Ignition Coil 4 (L3B) • T8E Ignition Coil 5 (L84/L87) • T8G Ignition Coil 7 (L84/L87)
F91	NOT USED	F91UA	—	• Not Used
F92	AERO SHUTTER	F92UA	10A	• M96 Active Grille Air Shutter Actuator (VTI/WMI) • M96B Active Grille Air Shutter Actuator 2 (WMI)
Relays				
K5	REAR DEFOG	KR5 Rear Window Defogger Relay	—	• F12UA

No.	Device Label Name	Device Assigned Name	Rating	Description
K18	DC/AC INV	KR202 Accessory AC and DC Power Control Module Relay	—	• F19UA
K23	FUEL HTR	KR22 Fuel Heater Relay	—	• R29 Fuel Filter (LZ0)
K35	TRLR PRK LAMP/FRT GRILLE LAMP	KR53 Parking Lamp Relay	—	• F28UA • F41UA
K36	RUN/CRNK	KR73 Ignition Main Relay	—	• F33UA • F37UA • F38UA • F39UA • F40UA • F44UA • F46UA
K43	SECD AXLE MTR	KR203 Front Drive Axle Actuator Relay	—	• F45UA (NP0/NQH)
K59	A/C CLTCH	KR29 A/C Compressor Clutch Relay	—	• F50UA
K64	STRTR MTR	KR27 Starter Motor	—	• M64 Starter Motor
K70	STRTR PINION	KR27C Engine Restart Relay	—	• M64 Starter Motor (L3B/L84/L87)
K77	PWR/TRN	KR75 Engine Controls Ignition Relay	—	• F86UA • F87UA • F88UA • F89UA • F90UA • F92UA • KR29 Air Conditioning Compressor Relay
Note: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.				
—	—	KR3 Horn Relay	—	• F27UA
—	—	KR11 Windshield Washer Pump Relay	—	• G24 Windshield Washer Pump
—	—	KR12B Windshield Wiper Motor Relay	—	• M75 Windshield Wiper Motor
—	—	KR12C Windshield Wiper Motor Speed Control Relay	—	• M75 Windshield Wiper Motor
—	—	KR61 Trailer Backup Lamp Relay	—	• F55UA
—	—	KR63L Trailer Stop/Turn Signal Lamp Relay - Left	—	• F73UA

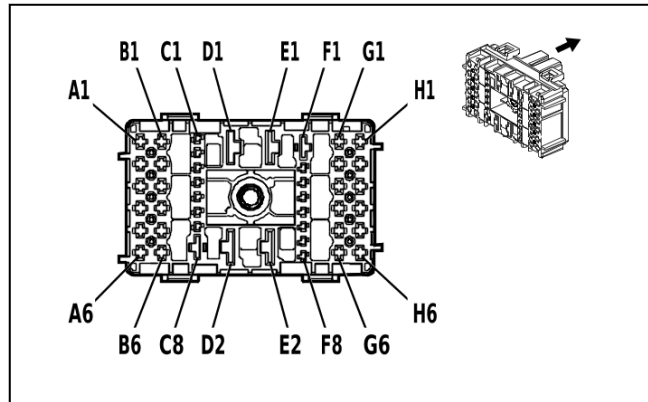
No.	Device Label Name	Device Assigned Name	Rating	Description
—	—	KR63R Trailer Stop/ Turn Signal Lamp Relay - Right	—	• F81UA
—	—	KR200 Engine Controls Sensor Supply Voltage Relay	—	• F60UA • F80UA

X50A Engine Wiring Harness Junction Block Bottom View



5041382

X50A Engine Wiring Harness Junction Block X1



4994109

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33384590
- Service Connector: 19370824
- Description: 44-Way F 1.5, 2.8, 6.3 CTS, 9.5 MCON-LL Series(BU)

Terminal Part Information

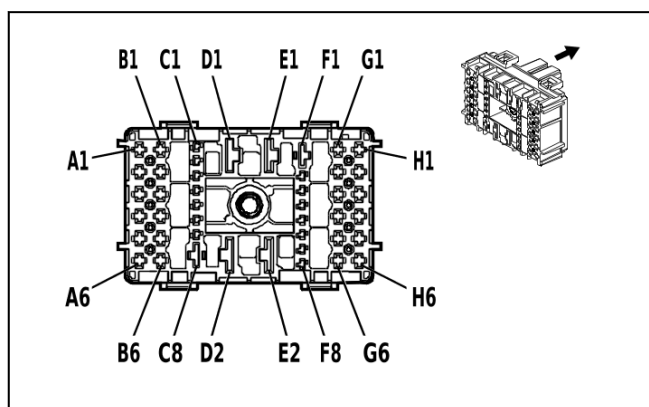
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19369711	J-35616-14 (GN)	EL-38125-560A
II	84764079	J-35616-44 (YE)	J-38125-11A
III	84779405	J-35616-35 (VT)	J-38125-215A
IV	Not required	J-35616-22 (RD)	No Tool Required

X50A Engine Wiring Harness Junction Block X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	—	—	—	Not Occupied	—	—
A2	1.5	RD / BU	540	Battery Positive Voltage	III	—
A3	0.35	BN / VT	193	Rear Defogger Relay Control	III	—
A4	0.5	BK	650	Ground	III	—
A5	0.75	GY / VT	228	Windshield Washer Pump Control	III	—
A6 - B1	—	—	—	Not Occupied	—	—
B2	2.5	BN / VT	293	Rear Defogger Grid Control	III	—
B3 - C2	—	—	—	Not Occupied	—	—
C3	0.5	WH / GN	4628	DC/AC Inverter Relay Control	I	—
C4	0.35	BN / GY	2268	Windshield Washer Relay Control	I	—
C5 - C8	—	—	—	Not Occupied	—	—
D1	5	BN / BK	4629	DC/AC Inverter Control	II	—
D2	10	RD / WH	342	Battery Positive Voltage	IV	—
E1	—	—	—	Not Occupied	—	—
E2	6	RD / WH	1040	Battery Positive Voltage	II	—
F1 - F5	—	—	—	Not Occupied	—	—
F6	0.35	WH / VT	860	Windshield Wiper Switch High Signal	I	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
F7 - G2	—	—	—	Not Occupied	—	—
G3	0.35	BU / VT	807	Ignition Off/Accessory Ignition Voltage	III	—
G4	0.5	GN / VT	5199	Run/Crank Relay Coil Control	III	—
G5	2	BK	150	Ground	III	—
G6	0.35	GY	91	Windshield Wiper Motor Relay Coil Control	III	—
H1	0.5	VT / BK	339	Run/Crank Ignition 1 Voltage	III	—
H2	0.75	VT / WH	1139	Run/Crank Ignition 1 Voltage	III	—
H3	0.5	VT / WH	639	Run/Crank Ignition 1 Voltage	III	—
H4	0.5	VT / WH	239	Run/Crank Ignition 1 Voltage	III	—
H5	2	WH	92	Windshield Wiper Motor High Speed Control	III	—
H6	2	YE / BN	95	Windshield Wiper Motor Low Speed Control	III	—

X50A Engine Wiring Harness Junction Block X2



4994132

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33384594
- Service Connector: 19371174
- Description: 44-Way F 1.5, 2.8, 6.3 CTS, 9.5 MCON-LL Series(GN)

Terminal Part Information

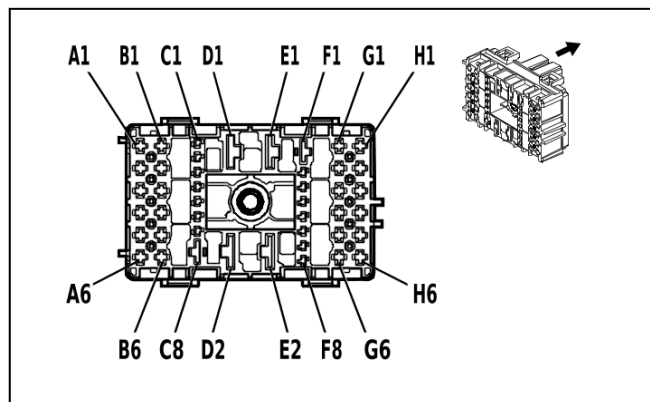
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19369711	J-35616-14 (GN)	EL-38125-560A
II	84779405	J-35616-35 (VT)	J-38125-215A
III	Not required	J-35616-22 (RD)	No Tool Required

X50A Engine Wiring Harness Junction Block X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1 - A4	—	—	—	Not Occupied	—	—
A5	1.5	RD / WH	640	Battery Positive Voltage	II	—
A6	1.5	RD / YE	740	Battery Positive Voltage	II	—
B1 - B4	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
B5	0.5	RD / BU	840	Battery Positive Voltage	II	—
B6	1	GN / YE	6840	Auxiliary Device 2 Switched Voltage	II	—
C1	0.35	YE / BU	318	Left Rear Trailer Stop/Turn Lamp Control	I	—
C2	0.35	GN / BN	319	Right Rear Trailer Stop/Turn Lamp Control	I	—
C3 - D1	—	—	—	Not Occupied	—	—
D2	10	RD / GY	142	Battery Positive Voltage	III	—
E1	—	—	—	Not Occupied	—	—
E2	10	RD / GN	242	Battery Positive Voltage	III	—
F1	—	—	—	Not Occupied	—	—
F2	0.35 0.5	BN / YE BN / YE	820 820	Center High Mounted Stop Lamp Supply Voltage Center High Mounted Stop Lamp Supply Voltage	I I	- UET UET
F3	0.35	BU / BN	38	Backup Lamp Relay Control	I	—
F4	0.35	BN / WH	28	Horn Relay Control	I	—
F5 - F8	—	—	—	Not Occupied	—	—
G1	0.75	BN / GY	29	Horn Control	II	—
G2	—	—	—	Not Occupied	—	—
G3	1.5	BN / GN	4246	Identification Lamp Control	II	—
G4	—	—	—	Not Occupied	—	—
G5	1.5	RD / BN	1440	Battery Positive Voltage	II	—
G6	1	RD / BN	1140	Battery Positive Voltage	II	—
H1	0.5	BU / BK	1053	Center High Mounted Stop Lamp Control 3	II	—
H2	—	—	—	Not Occupied	—	—
H3	0.5	RD / GN	3140	Battery Positive Voltage	II	—
H4 - H5	—	—	—	Not Occupied	—	—
H6	0.35	WH / BN	7055	Auxiliary Park Lamp Relay Control	II	—

X50A Engine Wiring Harness Junction Block X3



4992608

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 33384584
- Service Connector: 19371176
- Description: 44-Way F 1.5, 2.8, 6.3 CTS, 9.5 MCON-LL Series(GY)

Terminal Part Information

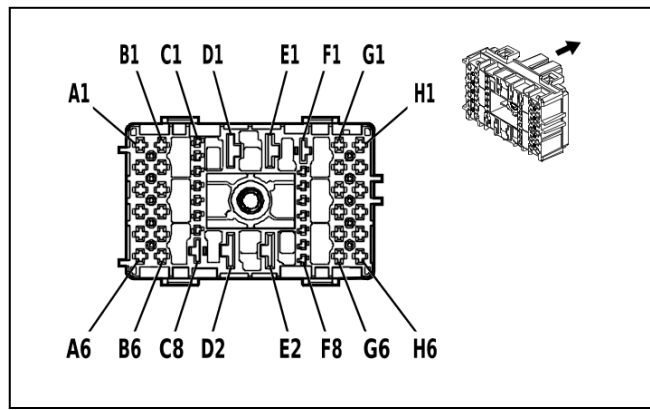
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19369711	J-35616-14 (GN)	EL-38125-560A
II	84764078	J-35616-42 (RD)	J-38125-215A
III	84764079	J-35616-44 (YE)	J-38125-11A
IV	84779405	J-35616-35 (VT)	J-38125-215A

X50A Engine Wiring Harness Junction Block X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.75	VT / GN	439	Run/Crank Ignition 1 Voltage	IV	—
A2 - A3	—	—	—	Not Occupied	—	—
A4	0.75	BN / GN	59	Air Conditioning Compressor Clutch Control	IV	—
A5	1.5	RD / GY	8540	Battery Positive Voltage	IV	—
A6	0.5	GN	8016	Secondary Axle Motor Control	IV	—
B1	2.5	YE	6	Starter Solenoid Crank Ignition Voltage	IV	—
B2	0.5	YE / BK	625	Starter Enable Relay Control	IV	—
B3	0.5	VT / GY	8017	Secondary Axle Motor Relay Control	IV	—
B4 - B5	—	—	—	Not Occupied	—	—
B6	3	GN / RD	6042	Cruise Control Switch 5V Reference	IV	—
C1	0.5	BU	3017	Fuel Heater Relay 1 Control	I	—
C2	—	—	—	Not Occupied	—	—
C3	0.5	BK	450	Ground	I	L3B
	1	BK	450	Ground	I	L84 / L87
	0.75	BK	450	Ground	I	LZ0
C4	0.5	WH / GY	459	Air Conditioning Compressor Clutch Relay Control	I	—
C5	0.5	GN / BU	3889	Powertrain Sensor Bus Relay Control	I	—
C6	1	VT / GN	4320	Powertrain Sensor Bus Enable	I	—
C7 - D1	—	—	—	Not Occupied	—	—
D2	5	RD / GN	3840	Battery Positive Voltage	III	—
E1	5	RD / GY	4140	Battery Positive Voltage	III	—
E2	5	RD / VT	4040	Battery Positive Voltage	III	—
F1	2.5	YE / GN	4358	Starter Pinion Solenoid Voltage	II	—
F2	0.5	YE / VT	4325	Starter Pinion Solenoid Actuator Relay Control	I	—
F3	0.5	RD / BN	440	Battery Positive Voltage	I	L3B / L84 / L87
	0.75	RD / BN	440	Battery Positive Voltage	I	LZ0
F4	0.5	YE	5991	Powertrain Relay Coil Control	I	—
F5	0.5	RD / BU	6040	Battery Positive Voltage	I	—
F6	—	—	—	Not Occupied	—	—
F7	0.5	VT / BU	5705	Powertrain Main Relay Control	I	—
F8 - G1	—	—	—	Not Occupied	—	—
G2	2	VT / BU	5292	Powertrain Main Relay Fused Supply Voltage 3	IV	—
G3	—	—	—	Not Occupied	—	—
G4	0.75	VT / BU	5293	Powertrain Main Relay Fused Supply Voltage 4	IV	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
G5	1.5	VT / GN	4320	Powertrain Sensor Bus Enable	IV	—
G6	1	VT / BU	5291	Powertrain Main Relay Fused Supply Voltage 2	IV	—
H1	2.5	VT / BU	5290	Powertrain Main Relay Fused Supply Voltage 1	IV	—
H2	0.75	VT / BU	5292	Powertrain Main Relay Fused Supply Voltage 3	IV	—
H3	1	VT / BU	5294	Powertrain Main Relay Fused Supply Voltage 5	IV	—
H4	0.75	VT / BU	5293	Powertrain Main Relay Fused Supply Voltage 4	IV	—
H5	2.5	VT / BU	5291	Powertrain Main Relay Fused Supply Voltage 2	IV	—
H6	—	—	—	Not Occupied	—	—

X50A Engine Wiring Harness Junction Block X4



4993031

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 33384574
- Service Connector: 19371188
- Description: 44-Way F 1.5, 2.8, 6.3 CTS, 9.5 MCON-LL Series(BK)

Terminal Part Information

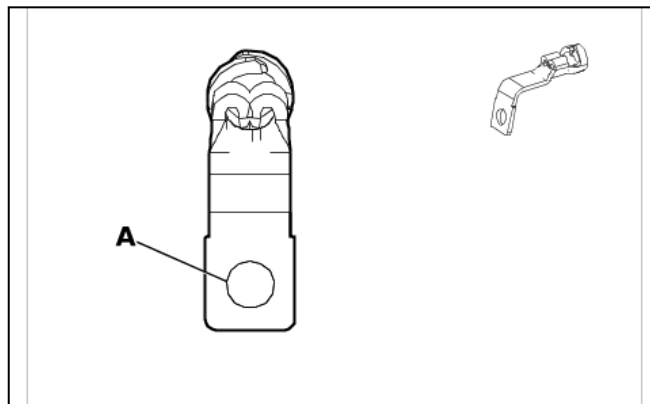
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19369711	J-35616-14 (GN)	EL-38125-560A
II	84764078	J-35616-42 (RD)	J-38125-215A
III	84764079	J-35616-44 (YE)	J-38125-11A
IV	84779405	J-35616-35 (VT)	J-38125-215A

X50A Engine Wiring Harness Junction Block X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	—	—	—	Not Occupied	—	—
A2	0.5	RD / BU	5240	Battery Positive Voltage	IV	—
A3	1.5	BN	2109	Trailer Park Lamp Control	IV	—
A4 - A5	—	—	—	Not Occupied	—	—
A6	0.5	VT / WH	639	Run/Crank Ignition 1 Voltage	IV	—
B1	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
B2	1	GY	1624	Trailer Backup Lamp Control	IV	—
B3	0.75	RD / GN	2440	Battery Positive Voltage	IV	—
B4	0.5	RD / GN	6940	Battery Positive Voltage	IV	—
B5 - C6	—	—	—	Not Occupied	—	—
C7	1.5	RD / WH	3440	Battery Positive Voltage	I	FHX
	0.5	RD / WH	3440	Battery Positive Voltage	I	FJW / FHS / FHR
C8	2.5	BN / YE	2996	Fuel Heater Control 1	II	—
D1	—	—	—	Not Occupied	—	—
D2	4	OG	3640	Battery Positive Voltage	III	—
E1 - E2	—	—	—	Not Occupied	—	—
F1	2.5	RD / WH	2040	Battery Positive Voltage	II	—
F2 - G2	—	—	—	Not Occupied	—	—
G3	1	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	IV	—
G4	2.5	RD / YE	5840	Battery Positive Voltage	IV	—
G5	1.5	RD / WH	5940	Battery Positive Voltage	IV	—
G6	2.5	RD / WH	1040	Battery Positive Voltage	IV	—
H1 - H2	—	—	—	Not Occupied	—	—
H3	1	GN	1619	Right Rear Trailer Stop/Turn Lamp Control	IV	—
H4	2.5	RD / VT	5640	Battery Positive Voltage	IV	—
H5	2.5	RD / VT	1940	Battery Positive Voltage	IV	—
H6	4	OG	3940	Battery Positive Voltage	IV	—

X50A Engine Wiring Harness Junction Block X5



5525767

Connector Part Information

- Harness Type: Starter Solenoid Cable
- OEM Connector: 84386513
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

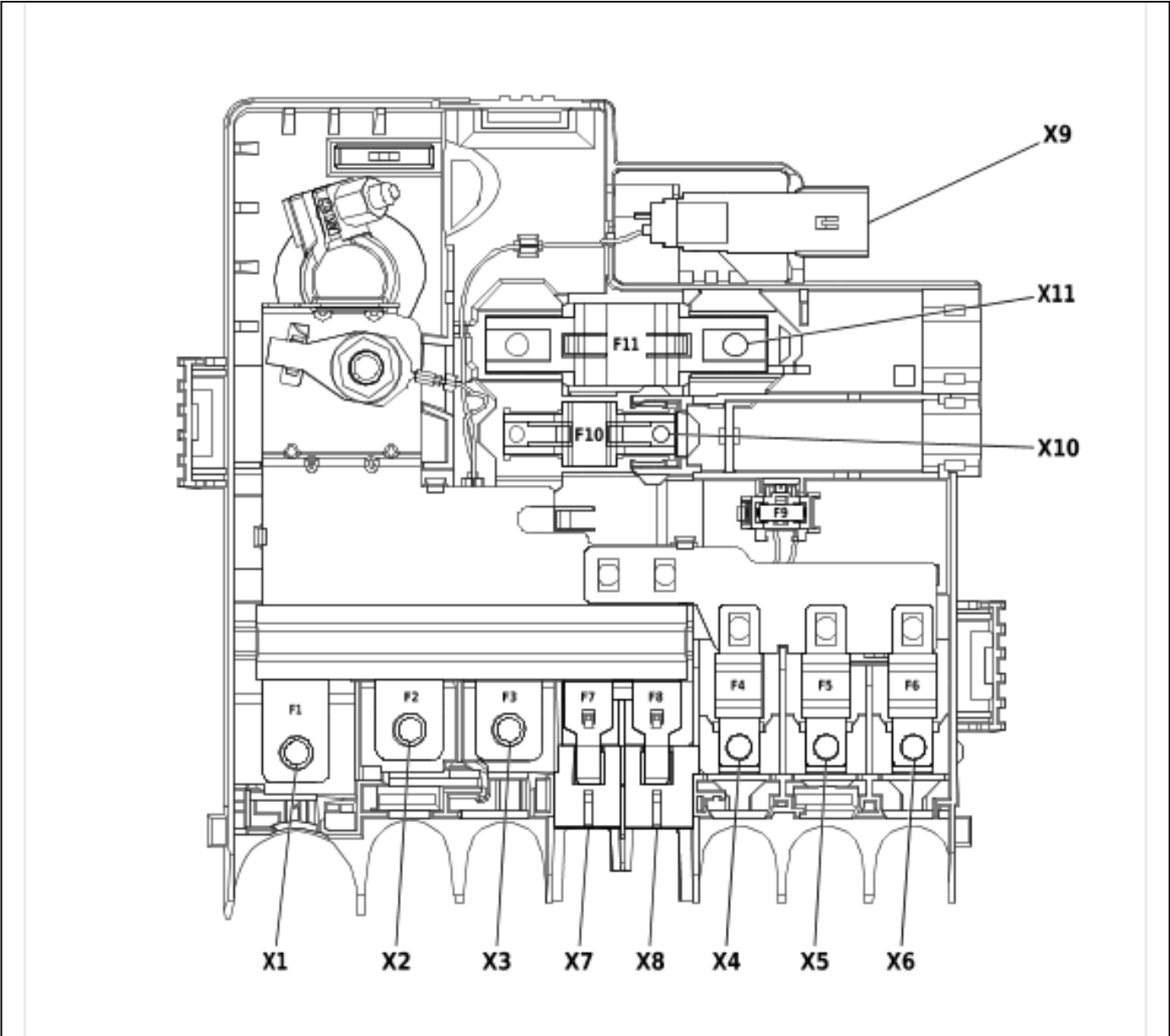
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X50A Engine Wiring Harness Junction Block X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD / BU	42	Battery Positive Voltage	I	—

X50B Battery Distribution Engine Compartment Fuse Block Top View



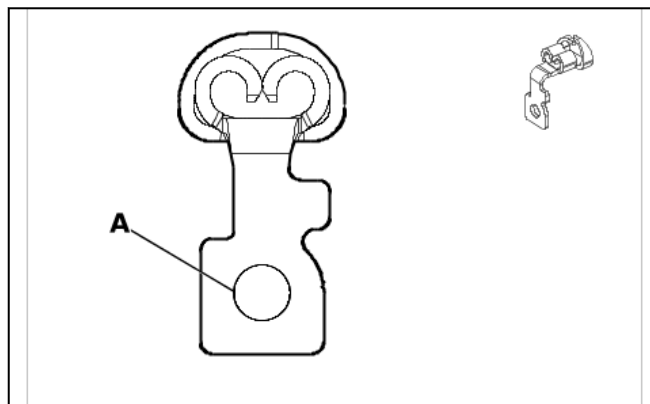
5070128

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	—	F1BA	250A	• G13 Generator • X50A Engine Wiring Harness Junction Block

No.	Device Label Name	Device Assigned Name	Rating	Description
F2	—	F2BA	175A	• K43 Power Steering Control Module
F3	—	F3BA	400A	• M64 Starter Motor
F4	—	F4BA	100A	• E40 Air Heater (C32)
F5	—	F5BA	70A	• K20 Engine Control Module (LZ0)
F6	—	F6BA	80A	• G10R Cooling Fan Motor - Right (LZ0) • G59 Engine Coolant Pump (L3B)
F7	—	F7BA	60A	• X51AX Instrument Panel Wiring Harness Junction Block - Right (9L7)
F8	—	F8BA	200A	• Not Used (Snow Plow)
F9	—	F9BA	60A	• X51R Instrument Panel Wiring Harness Junction Block - Right
F10	—	F10BA	60A	• K160 Brake System Control Module • X410
F11	—	F11BA	5A	• B110 Battery Sensor Module

X50B Battery Distribution Engine Compartment Fuse Block X1



5911326

Connector Part Information

- Harness Type: Starter Solenoid Cable
- OEM Connector: 84386516
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

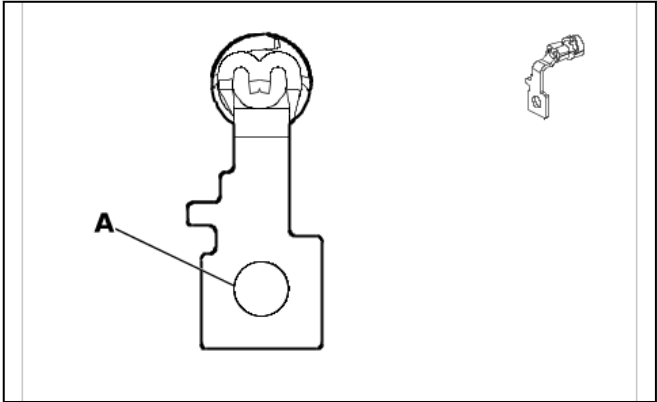
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X50B Battery Distribution Engine Compartment Fuse Block X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD / BU	42	Battery Positive Voltage	I	KW7
	35	RD / BU	42	Battery Positive Voltage	I	L84 / L87

X50B Battery Distribution Engine Compartment Fuse Block X2



5664311

Connector Part Information

- Harness Type: Power Steering Wiring Harness
- OEM Connector: 1122403
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

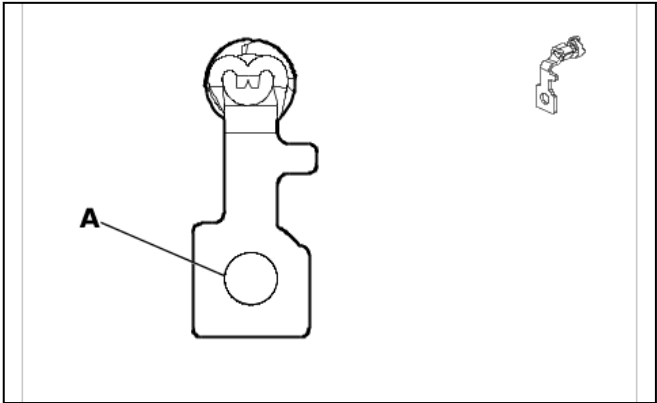
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X50B Battery Distribution Engine Compartment Fuse Block X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD / VT	3542	Battery Positive Voltage	I	—

X50B Battery Distribution Engine Compartment Fuse Block X3



5881244

Connector Part Information

- Harness Type: Starter Solenoid Cable
- OEM Connector: 84386515
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

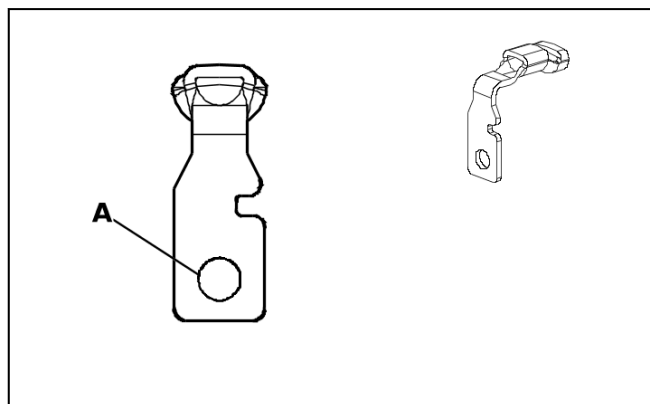
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X50B Battery Distribution Engine Compartment Fuse Block X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD / YE	2	Battery Positive Voltage	I	—

X50B Battery Distribution Engine Compartment Fuse Block X4 (C32)



5194789

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35085117
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

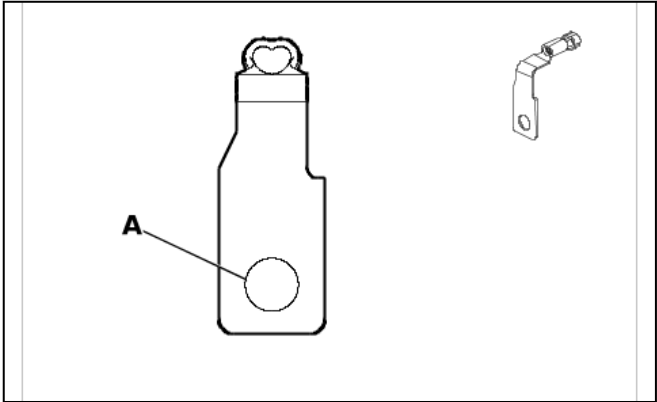
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X50B Battery Distribution Engine Compartment Fuse Block X4 (C32)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD / GY	642	Battery Positive Voltage	I	—

X50B Battery Distribution Engine Compartment Fuse Block X5 (LZ0)



5373306

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35169508
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

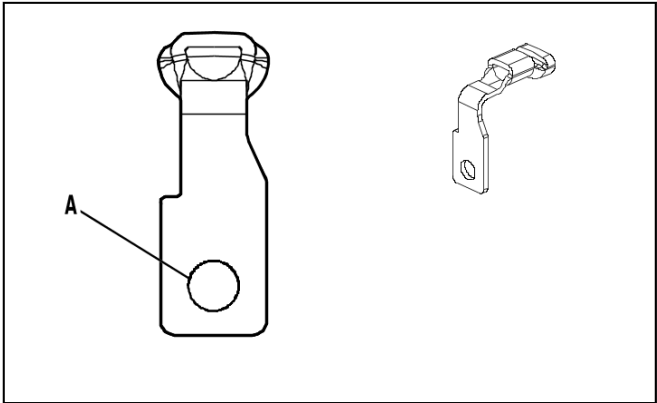
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X50B Battery Distribution Engine Compartment Fuse Block X5 (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	6	BN / BU	104	Glow Plug Control	I	—

X50B Battery Distribution Engine Compartment Fuse Block X6



4994507

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35085183
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

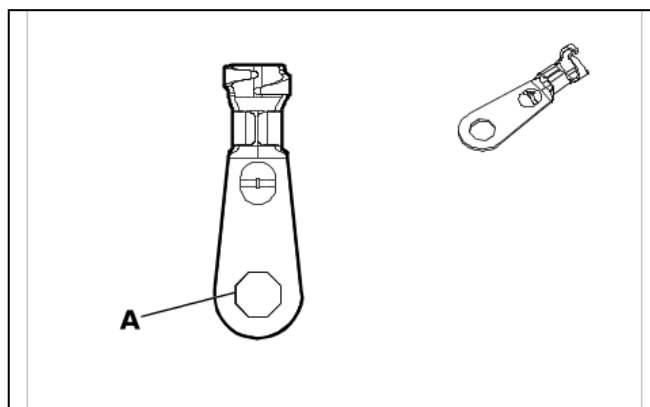
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X50B Battery Distribution Engine Compartment Fuse Block X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD / BN	1742	Battery Positive Voltage	I	L3B
	8	RD / BN	1742	Battery Positive Voltage	I	LZ0

X50B Battery Distribution Engine Compartment Fuse Block X7 (9L7)



5920578

Connector Part Information

- Harness Type: Auxiliary Fuse Block Wiring Harness
- OEM Connector: 13624367
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

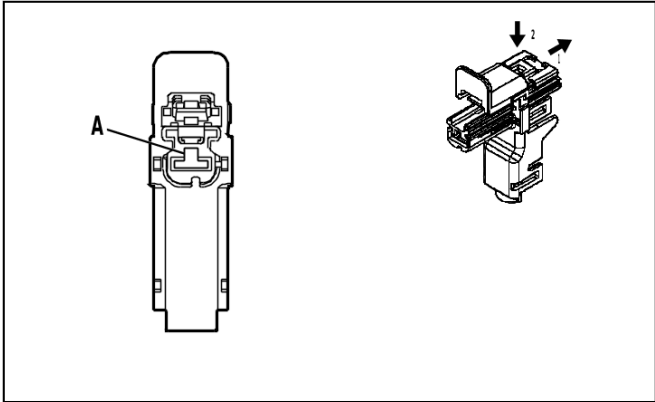
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X50B Battery Distribution Engine Compartment Fuse Block X7 (9L7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD / VT	542	Battery Positive Voltage	I	9L7

X50B Battery Distribution Engine Compartment Fuse Block X9



4994171

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33297579
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way F 6.3 Series(BU)

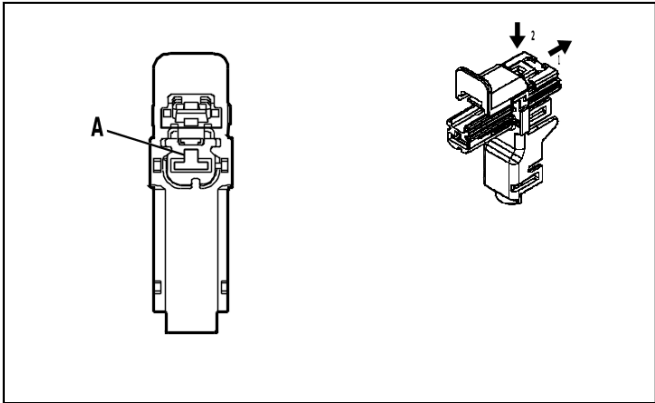
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required

X50B Battery Distribution Engine Compartment Fuse Block X9

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	RD / YE	1442	Battery Positive Voltage	I	—

X50B Battery Distribution Engine Compartment Fuse Block X10



4994183

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33297578
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way F 6.3 Series(BK)

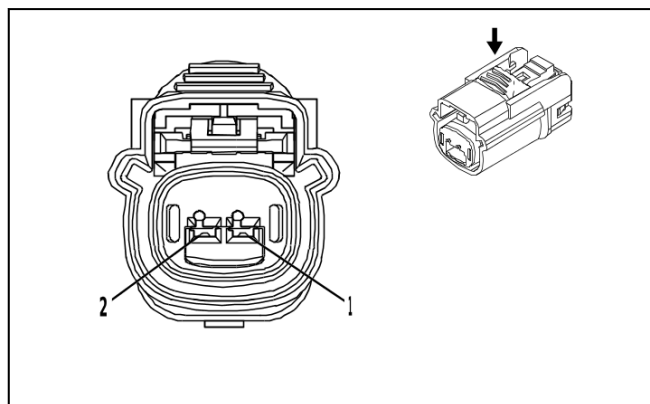
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required

X50B Battery Distribution Engine Compartment Fuse Block X10

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	6	RD / WH	1642	Battery Positive Voltage	I	—

X50B Battery Distribution Engine Compartment Fuse Block X11



4332222

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33314786
- Service Connector: 19368124
- Description: 2-Way F 1.5 OCS Series, Sealed(BK)

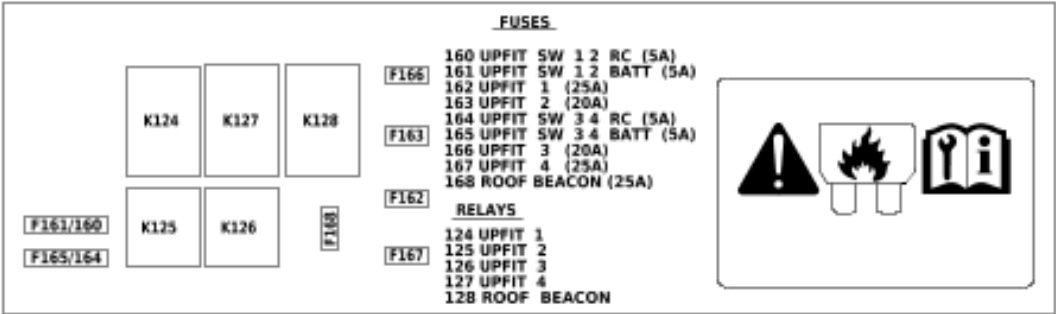
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

X50B Battery Distribution Engine Compartment Fuse Block X11

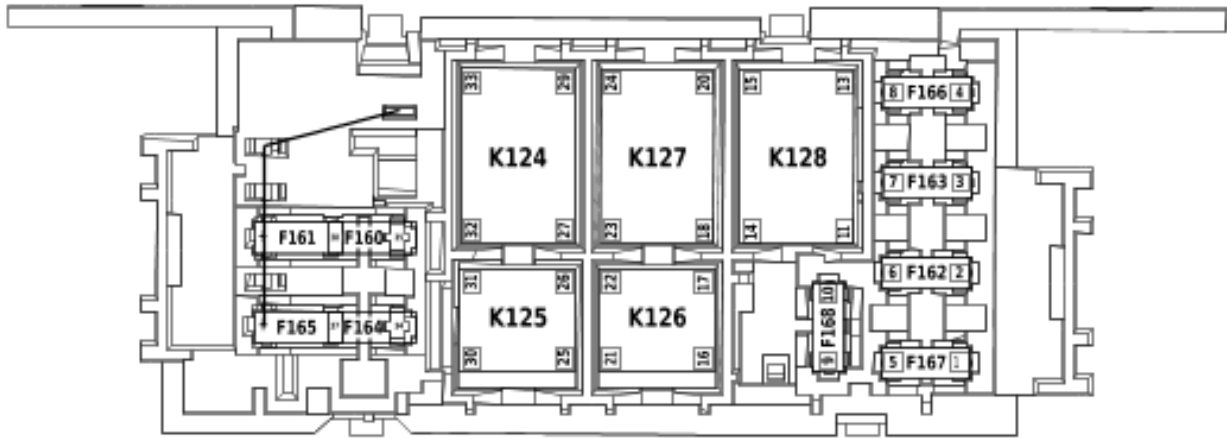
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) RD / YE	(1) 2340	(1) Battery Positive Voltage	(1) I	(1) —
2	—	—	—	Not Occupied	—	—

X51AX Instrument Panel Wiring Harness Junction Block - Auxiliary Label (9L7)



5969422

X51AX Instrument Panel Wiring Harness Junction Block - Auxiliary Top View (9L7)



5988611

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F160	UPFIT SW 1 2 RC	F160DA	5A	• KR161AA Configurable/Accessory Provision Relay 1 • KR161BA Configurable/Accessory Provision Relay 2
F161	UPFIT SW 1 2 BATT	F161DA	5A	• KR161AA Configurable/Accessory Provision Relay 1 • KR161BA Configurable/Accessory Provision Relay 2
F162	UPFIT 1	F162DA	25A	• X79A Configurable/Accessory Provision Supply Connector
F163	UPFIT 2	F163DA	20A	• X79A Configurable/Accessory Provision Supply Connector
F164	UPFIT SW 3 4 RC	F164DA	5A	• KR161CA Configurable/Accessory Provision Relay 3 • KR161DA Configurable/Accessory Provision Relay 4 • KR161EA Configurable/Accessory Provision Relay 5
F165	UPFIT SW 3 4 BATT	F165DA	5A	• KR161CA Configurable/Accessory Provision Relay 3 • KR161DA Configurable/Accessory Provision Relay 4 • KR161EA Configurable/Accessory Provision Relay 5
F166	UPFIT 3	F166DA	20A	• X79A Configurable/Accessory Provision Supply Connector

No.	Device Label Name	Device Assigned Name	Rating	Description
F167	UPFIT 4	F167DA	25A	• X79A Configurable/Accessory Provision Supply Connector
F168	ROOF BEACON	F168DA	25A	• X79A Configurable/Accessory Provision Supply Connector
Relays				
K124	UPFIT 1	KR161AA Configurable/Accessory Provision Relay 1	—	• F162DA
K125	UPFIT 2	KR161BA Configurable/Accessory Provision Relay 2	—	• F163DA
K126	UPFIT 3	KR161CA Configurable/Accessory Provision Relay 3	—	• F166DA
K127	UPFIT 4	KR161DA Configurable/Accessory Provision Relay 4	—	• F167DA
K128	ROOF BEACON	KR161EA Configurable/Accessory Provision Relay 5	—	• F168DA

X51AX Instrument Panel Wiring Harness Junction Block - Auxiliary (9L7)

Connector Part Information

- Harness Type: Auxiliary Fuse Block Wiring Harness
- OEM Connector: 33323307
- Service Connector: Service by Component Assembly - See Part Catalog
- Description: Wire Entry Fuse Block

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-22 (RD)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

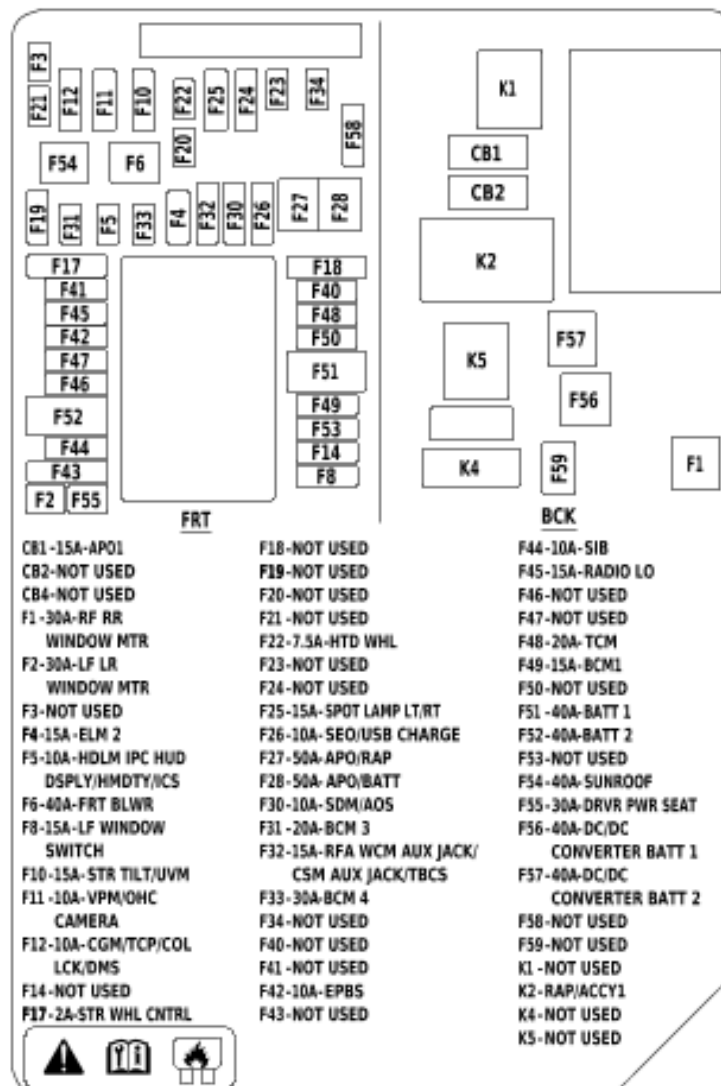
X51AX Instrument Panel Wiring Harness Junction Block - Auxiliary (9L7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) YE / BN	(1) 10734	(1) Upfitter Accessory 4 Supply Voltage	(1) II	(1) —
(2) 2	(2) 2.5	(2) BU	(2) 10731	(2) Upfitter Accessory 1 Supply Voltage	(2) II	(2) —
(3) 3	(3) 2.5	(3) GY / BK	(3) 10732	(3) Upfitter Accessory 2 Supply Voltage	(3) II	(3) —
(4) 4	(4) 2.5	(4) BN / WH	(4) 10733	(4) Upfitter Accessory 3 Supply Voltage	(4) II	(4) —
(5) 5	(5) 2.5	(5) YE	(5) 10729	(5) Upfitter Accessory Fuse 4 Supply Voltage	(5) II	(5) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(6) 6	(6) 2.5	(6) BU / GN	(6) 10726	(6) Upfitter Accessory Fuse 1 Supply Voltage	(6) II	(6) —
(7) 7	(7) 2.5	(7) GY	(7) 10727	(7) Upfitter Accessory Fuse 2 Supply Voltage	(7) II	(7) —
(8) 8	(8) 2.5	(8) BN	(8) 10728	(8) Upfitter Accessory Fuse 3 Supply Voltage	(8) II	(8) —
(9) 9	(9) 2.5	(9) VT / BU	(9) 10735	(9) Upfitter Accessory 5 Supply Voltage	(9) II	(9) —
(10) 10	(10) 2.5	(10) VT	(10) 10730	(10) Upfitter Accessory Fuse 5 Supply Voltage	(10) II	(10) —
(11) 11	(11) 2.5	(11) VT	(11) 10730	(11) Upfitter Accessory Fuse 5 Supply Voltage	(11) II	(11) —
(13) 13	(13) 0.35	(13) VT / BN	(13) 10723	(13) Upfitter Accessory Relay 3 Coil Supply Voltage	(13) II	(13) —
(14) 14	(14) 0.35	(14) GY / VT	(14) 10720	(14) Upfitter Accessory Relay 5 Coil Control	(14) II	(14) —
(15) 15	(15) 2.5	(15) RD / VT	(15) 542	(15) Battery Positive Voltage	(15) II	(15) —
(16) 16	(16) 2.5	(16) RD / VT	(16) 542	(16) Battery Positive Voltage	(16) II	(16) —
(17) 17	(17) 0.35	(17) GN / BN	(17) 10718	(17) Upfitter Accessory Relay 3 Coil Control	(17) II	(17) —
(18) 18	(18) 2.5	(18) YE	(18) 10729	(18) Upfitter Accessory Fuse 4 Supply Voltage	(18) II	(18) —
(20) 20	(20) 0.35	(20) VT / BN	(20) 10723	(20) Upfitter Accessory Relay 3 Coil Supply Voltage	(20) II	(20) —
(21) 21	(21) 0.35	(21) VT / BN	(21) 10723	(21) Upfitter Accessory Relay 3 Coil Supply Voltage	(21) II	(21) —
(22) 22	(22) 2.5	(22) BN	(22) 10728	(22) Upfitter Accessory Fuse 3 Supply Voltage	(22) II	(22) —
(23) 23	(23) 0.35	(23) WH / YE	(23) 10719	(23) Upfitter Accessory Relay 4 Coil Control	(23) II	(23) —
(24) 24	(24) 2.5	(24) RD / VT	(24) 542	(24) Battery Positive Voltage	(24) II	(24) —
(25) 25	(25) 2.5	(25) RD / VT	(25) 542	(25) Battery Positive Voltage	(25) II	(25) —
(26) 26	(26) 0.35	(26) VT / GY	(26) 10717	(26) Upfitter Accessory Relay 2 Coil Control	(26) II	(26) —
(27) 27	(27) 2.5	(27) BU / GN	(27) 10726	(27) Upfitter Accessory Fuse 1 Supply Voltage	(27) II	(27) —
(29) 29	(29) 0.35	(29) BU / VT	(29) 10721	(29) Upfitter Accessory Relay 1 Coil Supply Voltage	(29) II	(29) —
(30) 30	(30) 0.35	(30) BU / VT	(30) 10721	(30) Upfitter Accessory Relay 1 Coil Supply Voltage	(30) II	(30) —
(31) 31	(31) 2.5	(31) GY	(31) 10727	(31) Upfitter Accessory Fuse 2 Supply Voltage	(31) II	(31) —
(32) 32	(32) 0.35	(32) BU / WH	(32) 10716	(32) Upfitter Accessory Relay 1 Coil Control	(32) II	(32) —
(33) 33	(33) 2.5	(33) RD / VT	(33) 542	(33) Battery Positive Voltage	(33) II	(33) —
(34) 34	(34) 0.5	(34) VT / BK	(34) 339	(34) Run/Crank Ignition 1 Voltage	(34) II	(34) —
(35) 35	(35) 0.5	(35) VT / BK	(35) 339	(35) Run/Crank Ignition 1 Voltage	(35) II	(35) —

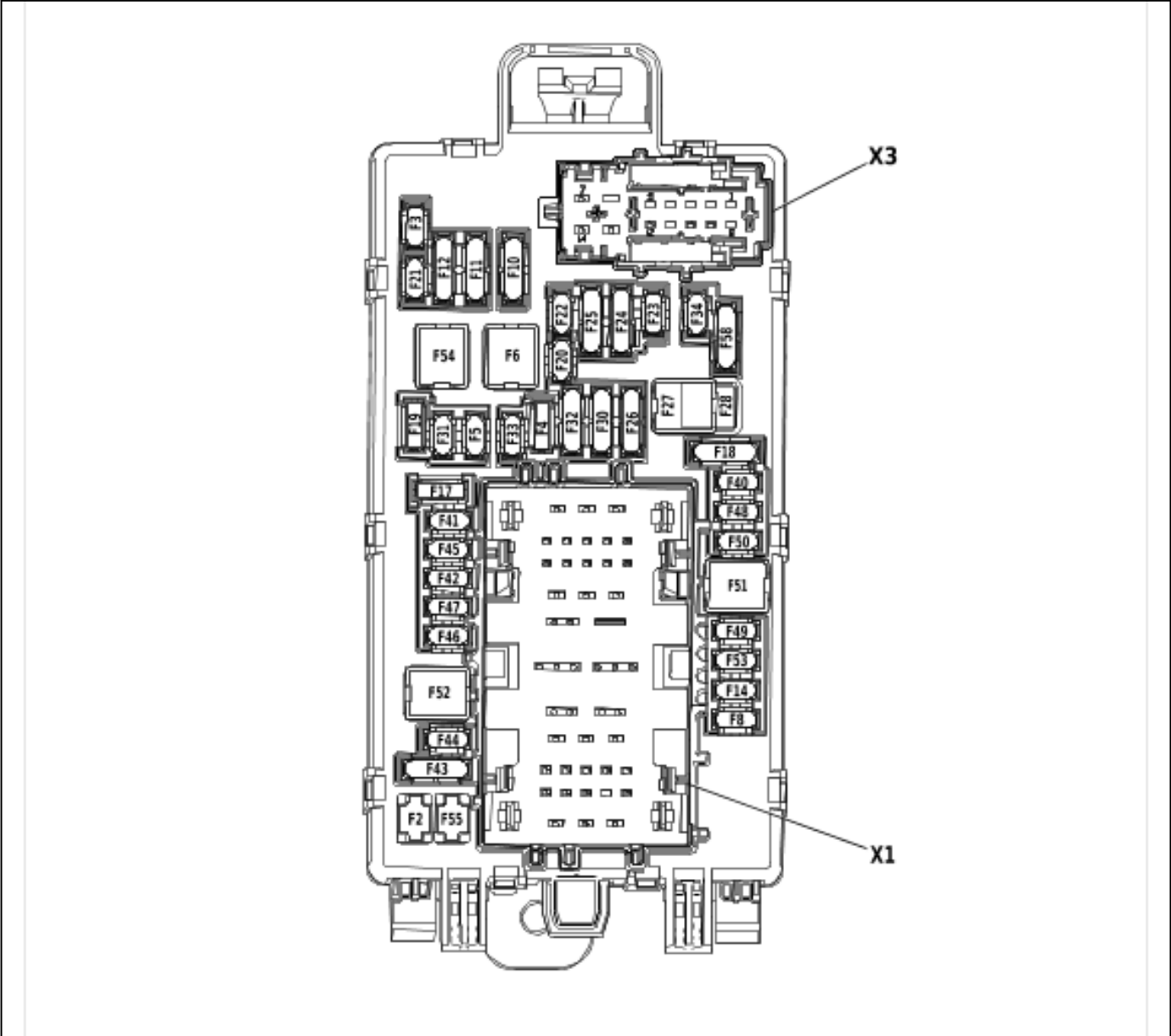
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(36) 36	(36) 10	(36) RD / VT	(36) 542	(36) Battery Positive Voltage	(36) I	(36) —
(37) 37	(37) 0.3 5	(37) VT / BN	(37) 1072 3	(37) Upfitter Accessory Relay 3 Coil Supply Voltage	(37) II	(37) —
(38) 38	(38) 0.3 5	(38) BU / VT	(38) 1072 1	(38) Upfitter Accessory Relay 1 Coil Supply Voltage	(38) II	(38) —
(39) 39	(39) 2.5	(39) RD / VT	(39) 542	(39) Battery Positive Voltage	(39) II	(39) —
(40) 40	(40) 2.5	(40) RD / VT	(40) 542	(40) Battery Positive Voltage	(40) II	(40) —
(41) 41	(41) 2.5	(41) RD / VT	(41) 542	(41) Battery Positive Voltage	(41) II	(41) —
(42) 42	(42) 2.5	(42) RD / VT	(42) 542	(42) Battery Positive Voltage	(42) II	(42) —
(43) 43	(43) 2.5	(43) RD / VT	(43) 542	(43) Battery Positive Voltage	(43) II	(43) —

X51R Instrument Panel Wiring Harness Junction Block - Right Label



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X51R Instrument Panel Wiring Harness Junction Block - Right Top View



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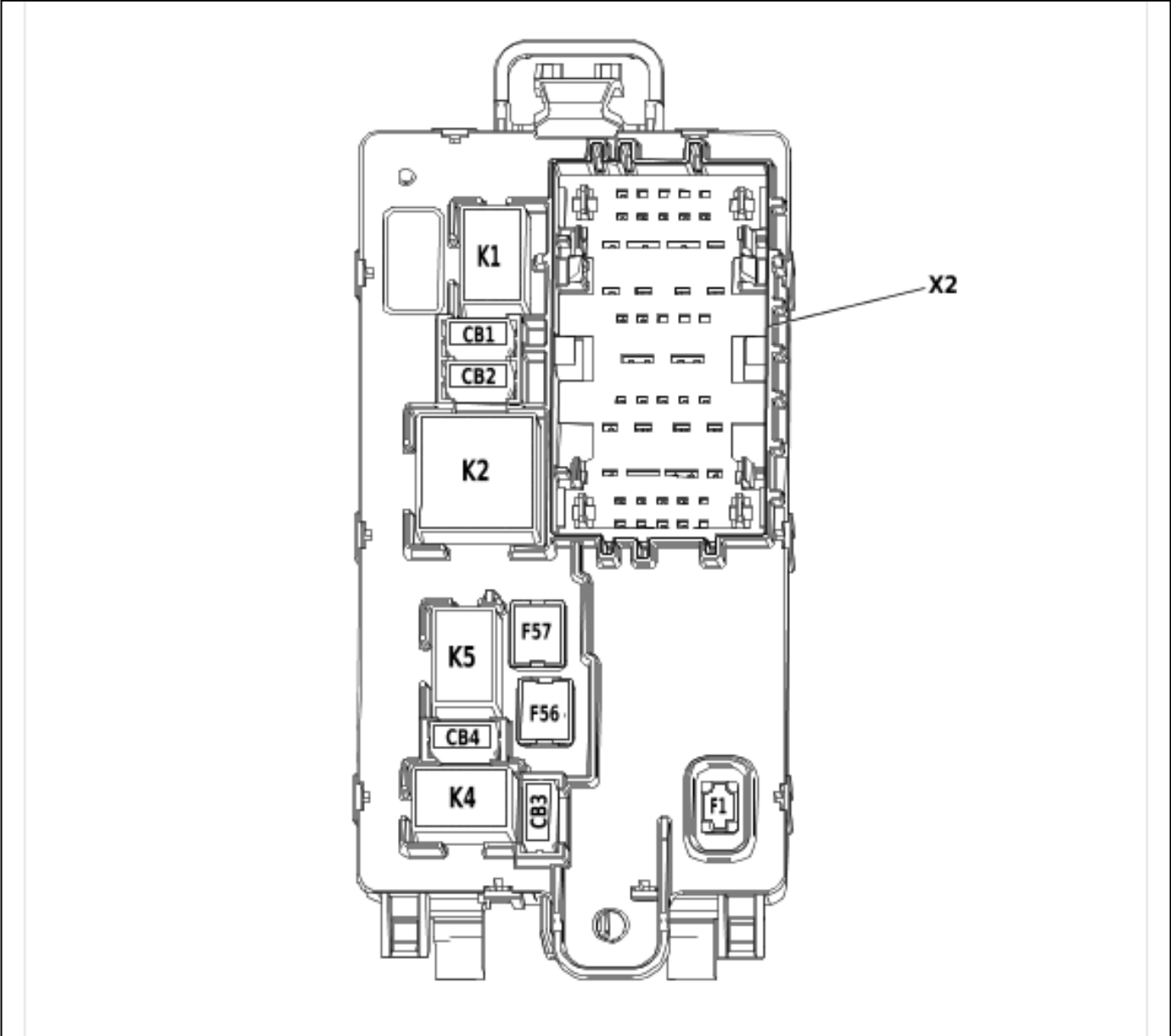
Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F2	LF LR WINDOW MTR	F2DR	30A	• M74D Front Side Door Window Regulator Motor - Driver • S79LR Rear Side Door Window Switch - Left
F3	NOT USED	F3DR	—	• Not Used
F4	ELM 2	F4DR	15A	• K219 Lighting Control Module
F5	HDLM IPC HUD DSPLY/ HMDTY/ICS	F5DR	10A	• K219 Lighting Control Module
F6	FRT BLWR	F6DR	40A	• M8 Blower Motor

No.	Device Label Name	Device Assigned Name	Rating	Description
F8	LF WINDOW SWITCH	F8DR	15A	- S79D Front Side Door Window Control Switch - Driver - S32R Rear Seat Heater Switch (KA6)
F10	STR TILT/UVM	F10DR	15A	- K99 Steering Column Tilt Wheel and Telescope Control Module (N38) - K219 Lighting Control Module
F11	VPM/OHC CAMERA	F11DR	10A	- A103 Roof Console - B174W Front View Camera - Windshield (UGN/UHY) - K157 Video Processing Module (UV2)
F12	CGM/TCP/COLLCK/DMS	F12DR	10A	- K56 Serial Data Gateway Module - K60 Column Lock Module - K73 Telematic Control Module (UDA/UE1) - K180 Driver Monitoring System Module (UKL)
F14	NOT USED	F14DR	—	Not Used
F17	STR WHL CNTRL	F17DR	2A	- S70L Cruise Control Switch (KI3) - S70R Radio Control Switch - Steering Wheel (KI3)
F18	NOT USED	F18DR	—	Not Used
F19	NOT USED	F19DR	—	Not Used
F20	NOT USED	F20DR	—	Not Used
F21	NOT USED	F21DR	—	Not Used
F22	HTD WHL	F22DR	7.5A	- K32 Steering Wheel Heating Control Module (KI3-UKL) - K180S Driver Monitoring System Module - Steering Wheel (KI3+UKL)
F23	NOT USED	F23DR	—	Not Used
F24	NOT USED	F24DR	—	Not Used
F25	SPOT LAMP LT/RT	F25DR	15A	- X219 (5W4) - X220 (5W4)
F26	SEO/USB CHARGE	F26DR	10A	- X92CD Dual Charge Only Receptacle - Floor Console Rear (D07+UBI) - X92FSR Dual Charge Only Receptacle - Front Center Seat Rear Cover (AZ3+UBI)
F27	APO/RAP	F27DR	50A	Not Used
F28	APO/BATT	F28DR	50A	Not Used
F30	SDM/AOS	F30DR	10A	- A22 Radio Control (IOK) - A26 Heater and Air Conditioning User Interface Control - Front - K36 Restraints Control Module - K85P Restraints Occupant Classification System Module - Passenger - K179 Automated Driving Mapping Module (UKL) - P16 Instrument Panel Cluster Control Module - P29 Head-Up Display (UV6)
F31	BCM 3	F31DR	20A	K9 Body Control Module

No.	Device Label Name	Device Assigned Name	Rating	Description
F32	RFA WCM AUX JACK/CSM AUX JACK/TBCS	F32DR	15A	• A11 Radio (IOK) • K77 Remote Function Actuator Module • S76 Trailer Brake Control Switch • T22 Wireless Accessory Charging Module (K4C) • X83B Audio/Video Receptacle (D07) • X92IP USB 2 Port Receptacle - Instrument Panel (IOR)
F33	BCM 4	F33DR	30A	• K9 Body Control Module
F34	NOT USED	F34DR	—	• Not Used
F40	NOT USED	F40DR	—	• Not Used
F41	NOT USED	F41DR	—	• Not Used
F42	EPBS	F42DR	10A	• S91 Parking Brake Control Switch
F43	NOT USED	F43DR	—	• Not Used
F44	SIB	F44DR	10A	• K212 Gear Shift Control Module (MHS/MQC)
F45	RADIO LO	F45DR	15A	• A11 Radio (IOR)
F46	NOT USED	F46DR	—	• Not Used
F47	NOT USED	F47DR	—	• Not Used
F48	TCM	F48DR	20A	• K71 Transmission Control Module
F49	BCM 1	F49DR	15A	• K9 Body Control Module
F50	NOT USED	F50DR	—	• Not Used
F51	BATT 1	F51DR	40A	• Not Used
F52	BATT 2	F52DR	40A	• Not Used
F53	NOT USED	F53DR	—	• Not Used
F54	SUNROOF	F54DR	40A	• K61 Sunroof Control Module (CF5)
F55	DRVR PWR SEAT	F55DR	30A	• K40D Driver Seat Adjuster Memory Module (A45) • S64D Front Seat Adjuster Switch - Driver (-A45)
F58	NOT USED	F58DR	—	• Not Used
F59	NOT USED	F59DR	—	• Not Used

X51R Instrument Panel Wiring Harness Junction Block - Right Bottom View



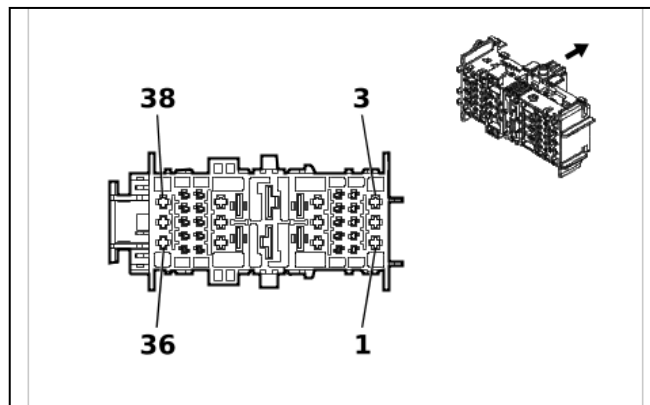
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Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	RF RR WINDOW MTR	F1DR	30A	• M74P Front Side Door Window Regulator Motor - Passenger (AEF) • S79P Front Side Door Window Switch - Passenger (AED/AEF) • S79RR Rear Side Door Window Switch - Right
F56	DC/DC CONVERTER BATT 1	F56DR	40A	• T19 Multifunction Power Supply Transformer

No.	Device Label Name	Device Assigned Name	Rating	Description
F57	DC/DC CONVERTER BATT 2	F57DR	40A	• T19 Multifunction Power Supply Transformer
Circuit Breakers				
CB1	APO 1	CB1DR	15A	• X80G Accessory Power Receptacle - Instrument Panel (KC5)
CB2	NOT USED	—	—	• Not Used
Relays				
K1	NOT USED	—	—	• Not Used
K2	RAP/ACCY 1	KR76 Accessory Time Delay Cutoff Relay	—	• CB1DR • F26DR
K4	NOT USED	—	—	• Not Used
K5	NOT USED	—	—	• Not Used

X51R Instrument Panel Wiring Harness Junction Block - Right X1



5402140

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35729471
- Service Connector: 85092590
- Description: 38-Way F 1.5, 2.8, 6.3 MCP, 9.5 MCON-LL Series(BU)

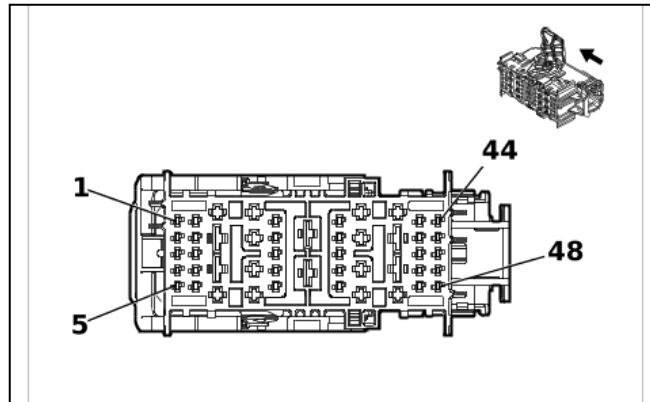
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19332366	J-35616-35 (VT)	J-38125-212
II	19371175	J-35616-2A (GY)	EL-38125-560A
III	84764078	J-35616-42 (RD)	J-38125-215A
IV	84764079	J-35616-44 (YE)	J-38125-11A
V	Not required	J-35616-22 (RD)	No Tool Required

X51R Instrument Panel Wiring Harness Junction Block - Right X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 1.5	(3) RD / GN	(3) 1840	(3) Battery Positive Voltage	(3) I	(3) —
(4) 4	(4) 0.75	(4) RD / VT	(4) 2640	(4) Battery Positive Voltage	(4) II	(4) —
(5) 5	(5) 0.5	(5) RD / GN	(5) 4440	(5) Battery Positive Voltage	(5) II	(5) —
(6) 6	(6) 0.35	(6) VT	(6) 4701	(6) Retained Accessory Power Control	(6) II	(6) —
7 - 13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.5	(14) RD / VT	(14) 1640	(14) Battery Positive Voltage	(14) I	(14) —
15 - 16	—	—	—	Not Occupied	—	—
(17) 17	(17) 2.5	(17) RD / GN	(17) 2173	(17) 12V Regulated Supply Voltage 2	(17) III	(17) —
(18) 18	(18) 2.5	(18) RD / YE	(18) 8140	(18) Battery Positive Voltage	(18) III	(18) —
(19) 19	(19) 5	(19) RD / YE	(19) 1442	(19) Battery Positive Voltage	(19) IV	(19) —
(20) 20	(20) 10	(20) RD / WH	(20) 342	(20) Battery Positive Voltage	(20) V	(20) —
(21) 21	(21) 2.5	(21) RD / YE	(21) 2172	(21) 12V Regulated Supply Voltage 1	(21) III	(21) —
(22) 22	(22) 2.5	(22) RD / WH	(22) 8040	(22) Battery Positive Voltage	(22) III	(22) —
(23) 23	(23) 2.5	(23) RD / GY	(23) 4840	(23) Battery Positive Voltage	(23) I	(23) —
(24) 24	(24) 2.5	(24) RD / BN	(24) 4240	(24) Battery Positive Voltage	(24) I	(24) —
(25) 25	(25) 2.5	(25) RD / BU	(25) 3240	(25) Battery Positive Voltage	(25) I	(25) —
26	—	—	—	Not Occupied	—	—
(27) 27	(27) 0.5	(27) RD / WH	(27) 5440	(27) Battery Positive Voltage	(27) II	(27) —
28 - 29	—	—	—	Not Occupied	—	—
(30) 30	(30) 0.5	(30) RD / BU	(30) 1240	(30) Battery Positive Voltage	(30) II	(30) —
31 - 35	—	—	—	Not Occupied	—	—
(36) 36	(36) 2.5	(36) RD / YE	(36) 5040	(36) Battery Positive Voltage	(36) I	(36) —
(37) 37	(37) 2.5	(37) RD / GY	(37) 3540	(37) Battery Positive Voltage	(37) I	(37) —
38	—	—	—	Not Occupied	—	—

X51R Instrument Panel Wiring Harness Junction Block - Right X2



5403539

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35264616
- Service Connector: 19371180
- Description: 48-Way F 1.5, 2.8, 6.3 CTS Series(GN)

Terminal Part Information

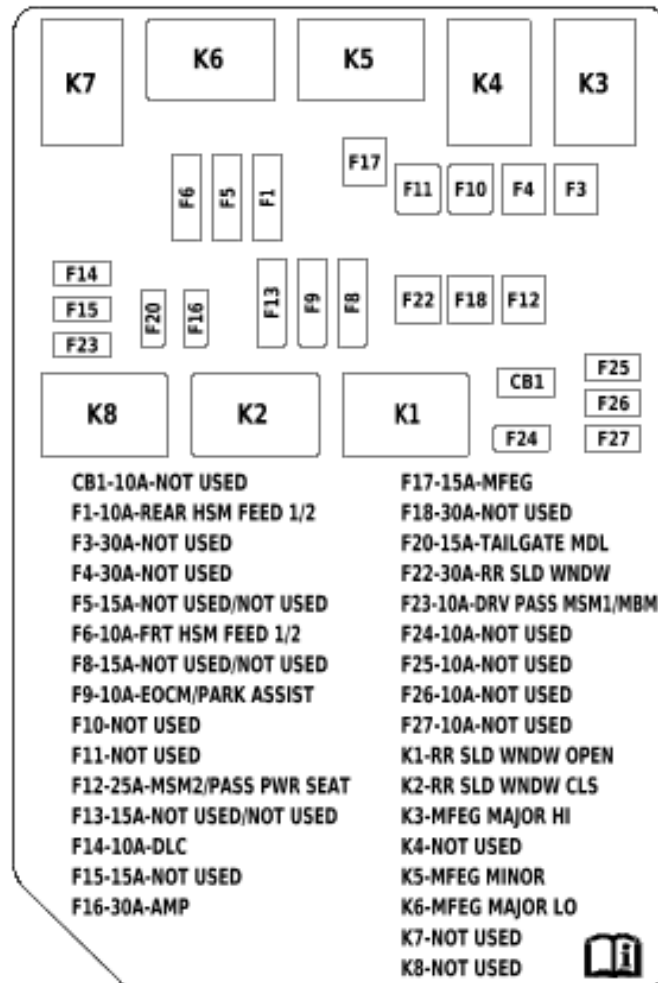
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19369711	J-35616-14 (GN)	EL-38125-560A
II	84764078	J-35616-42 (RD)	J-38125-215A
III	84779405	J-35616-35 (VT)	J-38125-215A

X51R Instrument Panel Wiring Harness Junction Block - Right X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 1050	(1) Ground	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) GY / GN	(3) 4083	(3) Retained Accessory Power Relay 2 Coil Control	(3) I	(3) —
4 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.5	(8) RD / BK	(8) 7740	(8) Battery Positive Voltage	(8) I	(8) —
(9) 9	(9) 0.5	(9) RD / YE	(9) 240	(9) Battery Positive Voltage	(9) I	(9) —
10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.7 5	(11) RD / GN	(11) 1024 0	(11) Battery Positive Voltage Police	(11) III	(11) —
12 - 13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.5 (14) 0.3 5	(14) RD / YE (14) RD / YE	(14) 3040 (14) 3040	(14) Battery Positive Voltage (14) Battery Positive Voltage	(14) III (14) III	(14) UDA / UE1 (14) UKL
(15) 15	(15) 0.5	(15) RD / BN	(15) 1004 0	(15) Battery Positive Voltage	(15) III	(15) —
(16) 16	(16) 0.7 5	(16) RD / VT	(16) 4640	(16) Battery Positive Voltage	(16) III	(16) —

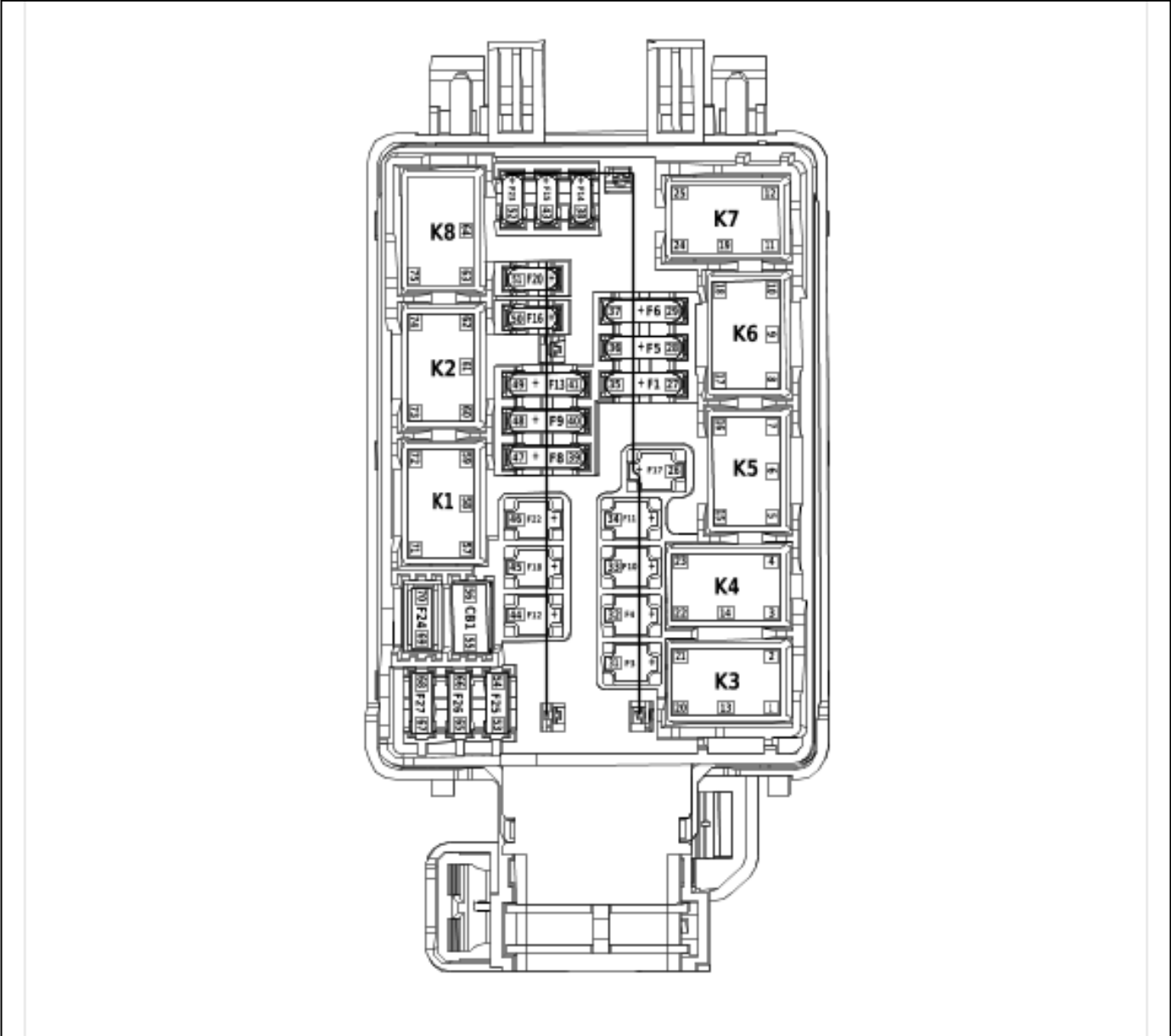
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.3 5	(18) RD / BN	(18) 4940	(18) Battery Positive Voltage	(18) III	(18) —
19	—	—	—	Not Occupied	—	—
(20) 20	(20) 0.7 5	(20) RD / GY	(20) 1034 0	(20) Battery Positive Voltage Police	(20) I	(20) —
21 - 23	—	—	—	Not Occupied	—	—
(24) 24	(24) 4	(24) RD / GY	(24) 1740	(24) Battery Positive Voltage	(24) II	(24) —
(25) 25	(25) 2.5	(25) RD / BU	(25) 4540	(25) Battery Positive Voltage	(25) II	(25) —
26	—	—	—	Not Occupied	—	—
(27) 27	(27) 0.5	(27) RD / YE	(27) 2340	(27) Battery Positive Voltage	(27) I	(27) —
(28) 28	(28) 0.5	(28) RD / WH	(28) 1340	(28) Battery Positive Voltage	(28) I	(28) —
29 - 30	—	—	—	Not Occupied	—	—
(31) 31	(31) 1.5	(31) VT	(31) 1001	(31) Retained Accessory Power Ignition Voltage	(31) III	(31) —
(32) 32	(32) 2	(32) RD / BU	(32) 2540	(32) Battery Positive Voltage	(32) III	(32) —
(33) 33	(33) 0.5	(33) RD / BK	(33) 7140	(33) Battery Positive Voltage	(33) III	(33) —
(34) 34	(34) 1	(34) RD / GY	(34) 2140	(34) Battery Positive Voltage	(34) III	(34) —
(35) 35	(35) 0.5	(35) RD / GN	(35) 1540	(35) Battery Positive Voltage	(35) III	(35) —
36	—	—	—	Not Occupied	—	—
(37) 37	(37) 1	(37) RD / GY	(37) 2840	(37) Battery Positive Voltage	(37) II	(37) —
38 - 40	—	—	—	Not Occupied	—	—
(41) 41	(41) 0.5	(41) RD / GN	(41) 5140	(41) Battery Positive Voltage	(41) I	(41) —
(42) 42	(42) 0.3 5	(42) RD / YE	(42) 4340	(42) Battery Positive Voltage	(42) I	(42) —
43 - 44	—	—	—	Not Occupied	—	—
(45) 45	(45) 0.5	(45) RD / WH	(45) 2740	(45) Battery Positive Voltage	(45) I	(45) —
46 - 48	—	—	—	Not Occupied	—	—

X53AF Body Wiring Harness Junction Block Label



5969417

X53AF Body Wiring Harness Junction Block Top View



6143341

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	REAR HSM FEED 1/2	F1DL	10A	• K29R Rear Seat Heater Control Module (KA6)
F3	NOT USED	F3DL	30A	• Not Used
F4	NOT USED	F4DL	30A	• Not Used
F5	NOT USED/NOT USED	F5DL	15A	• Not Used
F6	FRT HSM FEED 1/2	F6DL	10A	• K29FV Front Seat Heater Vent Control Module (KA1/ KQV)

No.	Device Label Name	Device Assigned Name	Rating	Description
F8	NOT USED/NOT USED	F8DL	15A	• Not Used
F9	EOCM/PARK ASSIST	F9DL	10A	• K124 Image Processing Module (UGN) • K182 Parking Assist Control Module (UD5/UD7)
F10	NOT USED	F10DL	30A	• Not Used
F11	NOT USED	F11DL	30A	• Not Used
F12	MSM2/PASS PWR SEAT	F12DL	25A	• S64P Front Seat Adjuster Switch - Passenger (A7K)
F13	NOT USED/NOT USED	F13DL	15A	• Not Used
F14	DLC	F14DL	10A	• X84 Data Link Connector
F15	NOT USED	F15DL	15A	• Not Used
F16	AMP	F16DL	30A	• T3 Audio Amplifier (UQA)
F17	MFEG	F17DL	15A	• KR191G Pickup Box Endgate Latch Relay - Ground (QT5-QK2) • KR192 Pickup Box Auxiliary Endgate Latch Relay (QK2+QT5)
F18	NOT USED	F18DL	30A	• Not Used
F20	TAILGATE MDL	F20DL	15A	• K194 Rear Gate Module (QT6)
F22	RR SLD WNDW	F22DL	30A	• KR206C Rear Sliding Window Close Relay (A48) • KR206O Rear Sliding Window Open Relay (A48)
F23	DRV PASS MSM1/MBM	F23DL	10A	• K40D Driver Seat Adjuster Memory Module (A45/AUN) • S64D Front Seat Adjuster Switch - Driver (A45) • S65P Front Seat Lumbar Switch - Passenger (A7K)
F24	NOT USED	F24DL	10A	• Not Used
F25	NOT USED	F25DL	10A	• Not Used
F26	NOT USED	F26DL	10A	• Not Used
F27	NOT USED	F27DL	10A	• Not Used
Circuit Breakers				
CB1	NOT USED	CB1DL	10A	• Not Used
Relays				
K1	RR SLD WNDW OPEN	KR206O Rear Sliding Window Open Relay	—	• M63 Rear Sliding Window Motor (A48)
K2	RR WNDW CLS	KR206C Rear Sliding Window Close Relay	—	• M63 Rear Sliding Window Motor (A48)
K3	MFEG MAJOR HI	KR191G Pickup Box Endgate Latch Relay - Ground	—	• A99L Pickup Box Endgate Latch - Left (QK2+QT5) • A99R Pickup Box Endgate Latch - Right (QK2+QT5) • M14A Pickup Box Endgate Lock Actuator (QK1+QT5)
K4	NOT USED	—	—	• Not Used
K5	MFEG MINOR	KR192 Pickup Box Auxiliary Endgate Latch Relay	—	• A100L Pickup Box Auxiliary Endgate Latch - Left (QK2+QT5) • A100R Pickup Box Auxiliary Endgate Latch - Right (QK2+QT5)

No.	Device Label Name	Device Assigned Name	Rating	Description
K6	MFEG MAJOR LO	KR191S Pickup Box Endgate Latch Relay - Supply Voltage	—	- A99L Pickup Box Endgate Latch - Left (QK2+QT5) - A99R Pickup Box Endgate Latch - Right (QK2+QT5) - A100R Pickup Box Auxiliary Endgate Latch - Right (QT6) - A100R Pickup Box Auxiliary Endgate Latch - Right (QT6) - M14A Pickup Box Endgate Lock Actuator (QK1+QT5)
K7	NOT USED	—	—	• Not Used
K8	NOT USED	—	—	• Not Used

X53AF Body Wiring Harness Junction Block

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35232561
- Service Connector: Service by Component Assembly - See Part Catalog
- Description: Wire Entry Fuse Block

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13578850	J-35616-5 (PU)	J-38125-215A
II	19332366	J-35616-35 (VT)	J-38125-212
III	19333059	J-35616-5 (PU)	J-38125-215A
IV	Not required	J-35616-22 (RD)	No Tool Required

X53AF Body Wiring Harness Junction Block

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) WH / GN	(1) 7728	(1) Major Endgate High Relay Control	(1) II	(1) —
(2) 2	(2) 1	(2) GN	(2) 1299	(2) Major Endgate Motor Control	(2) II	(2) —
(5) 5	(5) 1	(5) VT	(5) 7725	(5) Minor Endgate Motor Control	(5) II	(5) —
(7) 7	(7) 0.75	(7) WH / GY	(7) 7297	(7) Minor Endgate High Relay Control	(7) II	(7) —
(8) 8	(8) 1	(8) BK	(8) 1550	(8) Ground	(8) II	(8) —
(10) 10	(10) 0.75	(10) BU / VT	(10) 7729	(10) Major Endgate Low Relay Control	(10) II	(10) —
(15) 15	(15) 0.5	(15) BK	(15) 1550	(15) Ground	(15) II	(15) —
(16) 16	(16) 1	(16) RD / BN	(16) 8240	(16) Battery Positive Voltage	(16) II	(16) —
(17) 17	(17) 0.5	(17) BK	(17) 1550	(17) Ground	(17) II	(17) —
(18) 18	(18) 1	(18) YE / BK	(18) 7730	(18) Major Endgate Motor Low Reference	(18) II	(18) —
(20) 20	(20) 1	(20) RD / BN	(20) 8240	(20) Battery Positive Voltage	(20) II	(20) —
(21) 21	(21) 0.5	(21) BK	(21) 1550	(21) Ground	(21) II	(21) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(26) 26	(26) 1	(26) RD / BN	(26) 8240	(26) Battery Positive Voltage	(26) I	(26) —
(27) 27	(27) 0.7 5	(27) RD / WH	(27) 5740	(27) Battery Positive Voltage	(27) II	(27) —
(29) 29	(29) 0.7 5	(29) RD / BN	(29) 6640	(29) Battery Positive Voltage	(29) II	(29) —
(30) 30	(30) 10	(30) RD / GY	(30) 142	(30) Battery Positive Voltage	(30) IV	(30) —
(35) 35	(35) 0.7 5	(35) RD / BU	(35) 6740	(35) Battery Positive Voltage	(35) II	(35) —
(37) 37	(37) 0.7 5	(37) RD / GN	(37) 6140	(37) Battery Positive Voltage	(37) II	(37) —
(38) 38	(38) 0.5	(38) RD / YE	(38) 6540	(38) Battery Positive Voltage	(38) II	(38) —
(42) 42	(42) 10	(42) RD / GN	(42) 242	(42) Battery Positive Voltage	(42) IV	(42) —
(44) 44	(44) 2.5	(44) RD / YE	(44) 7440	(44) Battery Positive Voltage	(44) III	(44) —
(46) 46	(46) 2.5	(46) RD / VT	(46) 8640	(46) Battery Positive Voltage	(46) III	(46) —
(48) 48	(48) 0.5	(48) RD / WH	(48) 4740	(48) Battery Positive Voltage	(48) II	(48) —
(50) 50	(50) 2.5	(50) RD / YE	(50) 3740	(50) Battery Positive Voltage	(50) II	(50) —
(51) 51	(51) 2.5	(51) RD / VT	(51) 4442	(51) Primary Fused Battery Positive Voltage	(51) II	(51) —
(52) 52	(52) 0.5	(52) RD / BN	(52) 2240	(52) Battery Positive Voltage	(52) II	(52) —
(57) 57	(57) 2.5	(57) RD / VT	(57) 8640	(57) Battery Positive Voltage	(57) II	(57) —
(58) 58	(58) 2.5	(58) BK	(58) 1550	(58) Ground	(58) II	(58) —
(59) 59	(59) 0.5	(59) BK	(59) 1550	(59) Ground	(59) II	(59) —
(60) 60	(60) 2.5	(60) RD / VT	(60) 8640	(60) Battery Positive Voltage	(60) II	(60) —
(61) 61	(61) 2.5	(61) BK	(61) 1550	(61) Ground	(61) II	(61) —
(62) 62	(62) 0.5	(62) BK	(62) 1550	(62) Ground	(62) II	(62) —
(71) 71	(71) 0.5	(71) YE / VT	(71) 6191	(71) Power Rear Window Switch Open Signal	(71) II	(71) —
(72) 72	(72) 2	(72) VT / YE	(72) 7453	(72) Window Motor Rear Auxiliary Open Control	(72) II	(72) —
(73) 73	(73) 0.5	(73) WH	(73) 6192	(73) Sliding Rear Window Switch Close Signal	(73) II	(73) —
(74) 74	(74) 2	(74) YE	(74) 7454	(74) Window Motor Rear Auxiliary Close Control	(74) II	(74) —

X54 Accessory Wiring Junction Block - Snow Plow (VYU)

Connector Part Information

- Harness Type: Accessory Wiring Harness
- OEM Connector: 35028846
- Service Connector: Service by Component Assembly - See Part Catalog
- Description: Wire Entry Fuse Block

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

X54 Accessory Wiring Junction Block - Snow Plow (VYU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A4	0.5	BN	25	Charge Indicator Control	I	—
A6	0.75	RD	9026	Snow Plow Voltage	I	—
B4	0.75	WH / BU	9030	Snow Plow Switch Signal	I	—
B5	0.5	BN	9025	Charge Indicator Control Switch Signal	I	—

X55SP Wiring Harness Fuse Holder - Snow Plow (VYU)

Connector Part Information

- Harness Type: Accessory Wiring Harness
- OEM Connector: 33391084
- Service Connector: Service by Component Assembly - See Part Catalog
- Description: Wire Entry Fuse Holder

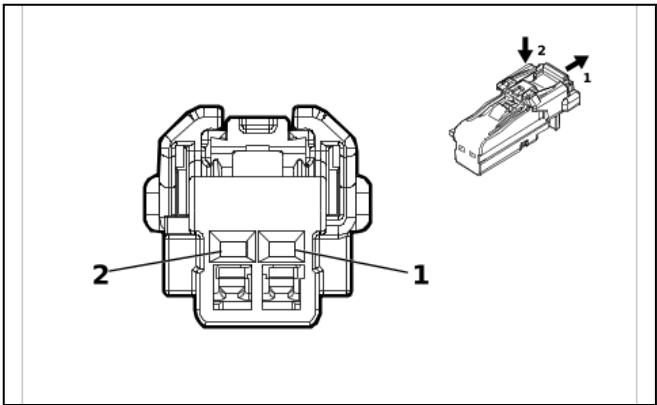
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

X55SP Wiring Harness Fuse Holder - Snow Plow (VYU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	OG	9026	Snow Plow Voltage	I	—
B	1	OG	9028	Snow Plow Voltage	I	—

A3L Sunshade - Left



5377746

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 6098-8990
- Service Connector: 84867147
- Description: 2-Way F 1.2 MCON Series(BN)

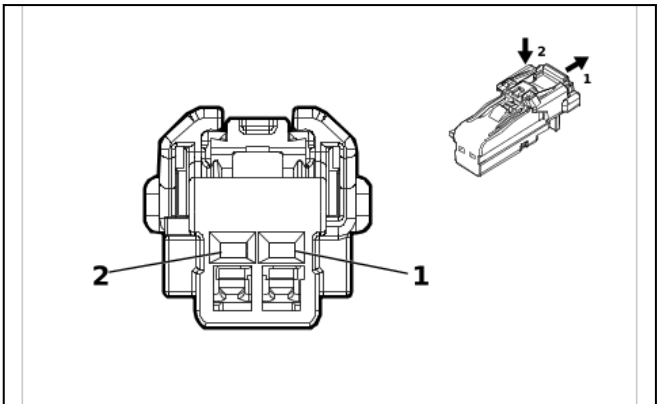
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required

A3L Sunshade - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BU / GN	(1) 4785	(1) Interior Lamp Overhead Enable Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1050	(2) Ground	(2) II	(2) —

A3R Sunshade - Right



5377746

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 6098-8990
- Service Connector: 84867147
- Description: 2-Way F 1.2 MCON Series(BN)

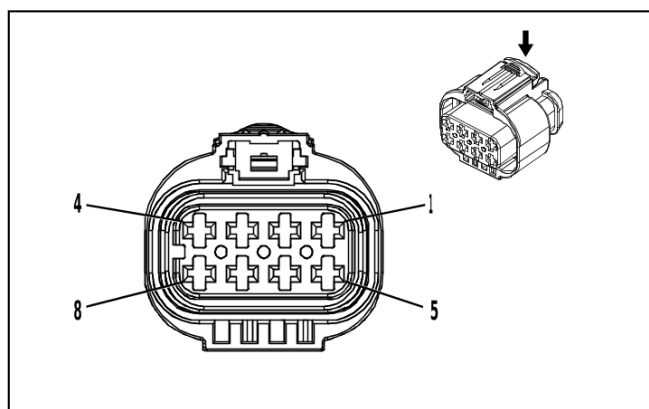
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required

A3R Sunshade - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GY / WH	(1) 2369	(1) Interior Lamp Overhead 2 Enable Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1050	(2) Ground	(2) II	(2) —

A7 Fuel Tank Fuel Pump Module



3749582

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 2-2109441-5
- Service Connector: 19354078
- Description: 8-Way F 2.8 Series, Sealed(L-GY)

Terminal Part Information

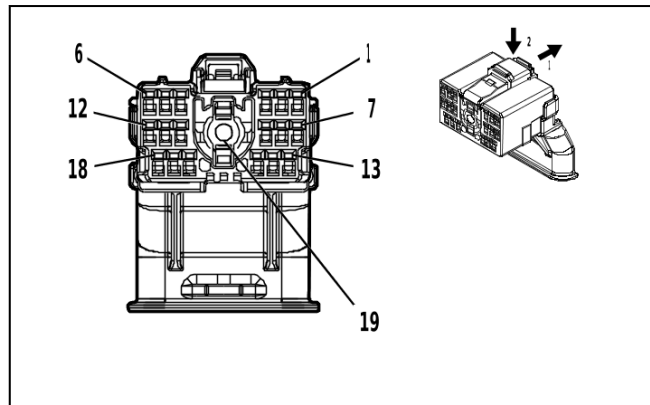
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

A7 Fuel Tank Fuel Pump Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY	(1) 120	(1) Fuel Pump Control	(1) I	(1) —
(2) 2	(2) 2.5	(2) YE / GY	(2) 4137	(2) Fuel Pump Supply Voltage Phase 2	(2) I	(2) —
(3) 3	(3) 2.5	(3) WH / BN	(3) 4138	(3) Fuel Pump Supply Voltage Phase 3	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH	(4) 7444	(4) Fuel Pump Assembly Shield Ground	(4) II	(4) —
(5) 5	(5) 0.5	(5) BU / GN	(5) 1936	(5) Primary Fuel Level Sensor Signal	(5) II	(5) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(6) 6	(6) 0.5	(6) BK / GN	(6) 6281	(6) Fuel Level Sensor Low Reference	(6) II	(6) —
7 - 8	—	—	—	Not Occupied	—	—

A9A Outside Rearview Mirror - Driver



4991775

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Driver
- OEM Connector: 6098-8388
- Service Connector: Service by Harness - See Part Catalog
- Description: 19-Way F 1.2 MCON, Coaxial Series(BK)

Terminal Part Information

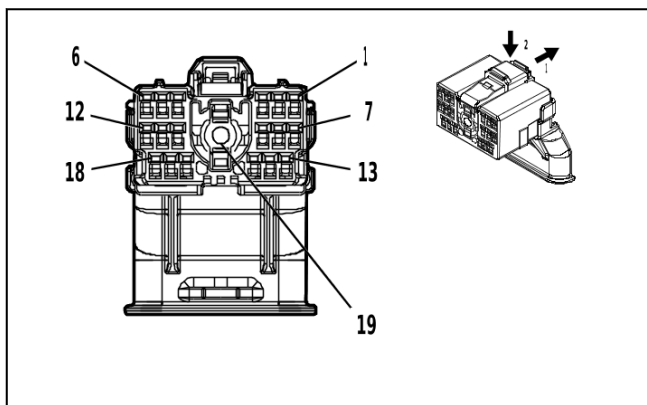
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Service by Cable	No Tool Required	No Tool Required

A9A Outside Rearview Mirror - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / BK	(1) 2790	(1) Left Front Mirror Motor Right [+] Left [-] Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / BU	(2) 2788	(2) Left Front Mirror Motor Up [+] Down [-] Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH / GN	(3) 2786	(3) Left Front Mirror Motor Fold In Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) GY / YE	(4) 1760	(4) Left Side Object Detection LED Control	(4) I	(4) —
(5) 5	(5) 0.5 (5) 0.5	(5) WH / GN (5) YE / GY	(5) 5966 (5) 2933	(5) Approach Lamp Control (5) Task Lamp Control Left	(5) I (5) I	(5) DEZ (5) DQS
(6) 6	(6) 0.5	(6) WH / YE	(6) 2792	(6) Left Front Mirror Position Sensor Left [-] Right [+] Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) WH	(7) 606	(7) Left Outside Rearview Mirror Heater Control	(7) I	(7) —
(8) 8	(8) 0.5	(8) WH / GY	(8) 2114	(8) Left Turn Signal Lamp Control 2	(8) I	(8) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(9) 9	(9) 0.5	(9) BK	(9) 1550	(9) Ground	(9) I	(9) —
(10) 10	(10) 0.5	(10) VT / RD	(10) 2791	(10) Left Front Mirror Position Sensor High Reference	(10) I	(10) —
(11) 11	(11) 0.5	(11) GY / BN	(11) 2787	(11) Left Front Mirror Position Sensor Up [+] Down [-] Signal	(11) I	(11) —
(12) 12	(12) 0.5	(12) BK / YE	(12) 1691	(12) Automatic Day/Night Mirror Low Reference	(12) I	(12) —
(13) 13	(13) 0.5	(13) YE / GY	(13) 2933	(13) Task Lamp Control Left	(13) I	(13) DLF/ DEZ (13) DPO/ DQS
	(13) 0.5	(13) BN / GN	(13) 4246	(13) Identification Lamp Control	(13) I	
(14) 14	(14) 0.5	(14) YE / BN	(14) 2789	(14) Left Front Mirror Motor Common Control	(14) I	(14) —
(15) 15	(15) 0.5	(15) GY / WH	(15) 2785	(15) Left Front Mirror Motor Fold Out Control	(15) I	(15) —
(16) 16	(16) 0.5	(16) BU / YE	(16) 7761	(16) Backup Illumination Lamp Control	(16) I	(16) —
(17) 17	(17) 0.5	(17) YE / WH	(17) 1690	(17) Mirror Dimming Signal	(17) I	(17) —
(18) 18	(18) 0.5	(18) BK / BN	(18) 673	(18) Left Outside Rearview Mirror Position Sensor Low Reference	(18) I	(18) —
(19) 19	(19) 0	(19) BARE	(19) 4725	(19) Left Sideview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(19) II	(19) —

A9B Outside Rearview Mirror - Passenger



4991775

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Passenger
- OEM Connector: 6098-8388
- Service Connector: Service by Harness - See Part Catalog
- Description: 19-Way F 1.2 MCON, Coaxial Series(BK)

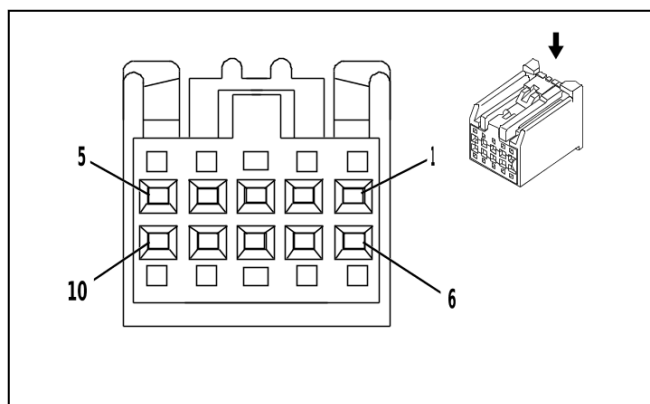
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Service by Cable	No Tool Required	No Tool Required

A9B Outside Rearview Mirror - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / BK	(1) 2798	(1) Right Front Mirror Motor Right [+] Left [-] Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / VT	(2) 2796	(2) Right Front Mirror Motor Up [+] Down [-] Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / GY	(3) 2794	(3) Right Front Mirror Motor Fold In Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) GY	(4) 1761	(4) Right Side Object Detection LED Control	(4) I	(4) —
(5) 5	(5) 0.5	(5) WH / GN	(5) 5966	(5) Approach Lamp Control	(5) I	(5) DEZ
	(5) 0.5	(5) YE / WH	(5) 2934	(5) Task Lamp Control Right	(5) I	(5) DQS
(6) 6	(6) 0.5	(6) VT / WH	(6) 2800	(6) Right Front Mirror Position Sensor Left [-] Right [+] Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) BN / VT	(7) 607	(7) Right Outside Rearview Mirror Heater Control	(7) I	(7) —
(8) 8	(8) 0.5	(8) GN / GY	(8) 2115	(8) Right Turn Signal Lamp Control 2	(8) I	(8) —
(9) 9	(9) 0.5	(9) BK	(9) 1350	(9) Ground	(9) I	(9) —
(10) 10	(10) 0.5	(10) YE / RD	(10) 2799	(10) Right Front Mirror Position Sensor High Reference	(10) I	(10) —
(11) 11	(11) 0.5	(11) BU / YE	(11) 2795	(11) Right Front Mirror Position Sensor Up [+] Down [-] Signal	(11) I	(11) —
(12) 12	(12) 0.5	(12) BK / GY	(12) 626	(12) Engine Control Vehicle Sensors Low Reference 1	(12) I	(12) —
(13) 13	(13) 0.5	(13) YE / WH	(13) 2934	(13) Task Lamp Control Right	(13) I	(13) DEZ
	(13) 0.5	(13) BN / GN	(13) 4246	(13) Identification Lamp Control	(13) I	(13) DQS
(14) 14	(14) 0.5	(14) WH	(14) 2797	(14) Right Front Mirror Motor Common Control	(14) I	(14) —
(15) 15	(15) 0.5	(15) YE / WH	(15) 2793	(15) Right Front Mirror Motor Fold Out Control	(15) I	(15) —
(16) 16	(16) 0.5	(16) BU / YE	(16) 7761	(16) Backup Illumination Lamp Control	(16) I	(16) —
(17) 17	(17) 0.5	(17) BU / GY	(17) 636	(17) Ambient Air Temperature Sensor Signal	(17) I	(17) —
(18) 18	(18) 0.5	(18) BK / GN	(18) 675	(18) Right Outside Rearview Mirror Position Sensor Low Reference	(18) I	(18) —
(19) 19	(19) 0	(19) BARE	(19) 4724	(19) Right Sideview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(19) II	(19) —

A10 Inside Rearview Mirror X1 (DD8 / DRZ)



2180211

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: AIT2PB-10P-2AK
- Service Connector: 13577390
- Description: 10-Way F 0.64 Kaizen Series(BK)

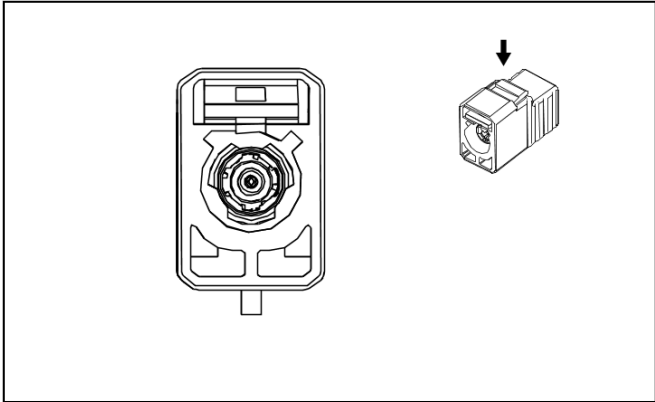
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575742	J-35616-64B (L-BU)	J-38125-215A

A10 Inside Rearview Mirror X1 (DD8 / DRZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / WH	(1) 24	(1) Backup Lamp Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / BK	(2) 339	(2) Run/Crank Ignition 1 Voltage	(2) I	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) BK / WH	(5) 851	(5) Signal Ground	(5) I	(5) —
6 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.35	(8) BK / YE	(8) 1691	(8) Automatic Day/Night Mirror Low Reference	(8) I	(8) —
(9) 9	(9) 0.35	(9) YE / WH	(9) 1690	(9) Mirror Dimming Signal	(9) I	(9) —
10	—	—	—	Not Occupied	—	—

A10 Inside Rearview Mirror X2 (DRZ)



2893647

- Connector Part Information**
- Harness Type: Radio Antenna Cable Extension Cable COAX
 - OEM Connector: 13581683
 - Service Connector: Service by Cable Assembly — See Part Catalog
 - Description: 1-Way F Coax Type(BK)

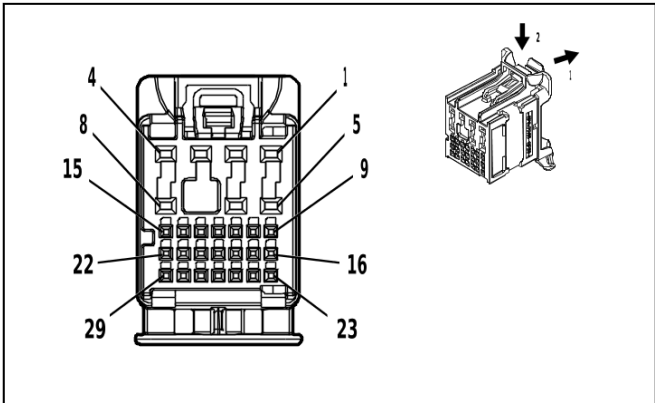
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

A10 Inside Rearview Mirror X2 (DRZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Full Display Mirror Rear Camera Coaxial Video Signal	I	—

A11 Radio X1 (IOR)



4584346

- Connector Part Information**
- Harness Type: Instrument Panel Wiring Harness
 - OEM Connector: 160014-0012
 - Service Connector: 13534972
 - Description: 29-Way F 0.5 NANO, 1.2 MCON Series(GN)

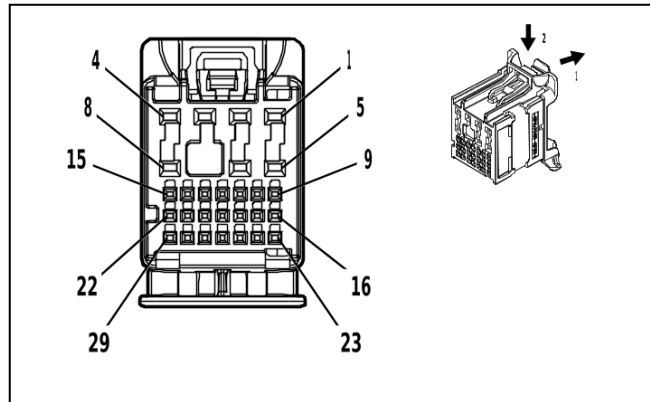
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

A11 Radio X1 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) RD / GY	(1) 2840	(1) Battery Positive Voltage	(1) II	(1) —
(2) 2	(2) 0.75	(2) RD / GY	(2) 2840	(2) Battery Positive Voltage	(2) II	(2) —
(3) 3	(3) 0.75	(3) BK / WH	(3) 1051	(3) Signal Ground	(3) II	(3) —
(4) 4	(4) 0.35	(4) BU / RD	(4) 11246	(4) Infotainment Display 5 Volt Reference	(4) II	(4) —
(5) 5	(5) 0.35	(5) BK / WH	(5) 11252	(5) Infotainment Display Low Reference	(5) II	(5) —
(6) 6	(6) 0.75	(6) BK / WH	(6) 1051	(6) Signal Ground	(6) II	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.75	(8) GN / BK	(8) 116	(8) Left Rear Speaker [-] Control	(8) II	(8) —
(9) 9	(9) 0.35	(9) GY / BU	(9) 11247	(9) Infotainment Display LCD Enable Signal	(9) I	(9) —
10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.3 5	(11) GN / WH	(11) 24	(11) Backup Lamp Control	(11) I	(11) —
12 - 14	—	—	—	Not Occupied	—	—
(15) 15	(15) 0.3 5	(15) BU / GY	(15) 1124 4	(15) Radio Switch Dimming Control	(15) I	(15) —
16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.3 5	(17) BU / WH	(17) 4985	(17) AUTOSAR CAN Bus [+] 5 Serial Data	(17) I	(17) —
(18) 18	(18) 0.3 5	(18) BU / YE	(18) 4984	(18) AUTOSAR CAN Bus [-] 5 Serial Data	(18) I	(18) —
19 - 20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.3 5	(21) GY / VT	(21) 1124 9	(21) Infotainment Display Backlight Enable Control	(21) I	(21) —
(22) 22	(22) 0.3 5	(22) BU / GN	(22) 1124 8	(22) Infotainment Display Backlight Dimming Control	(22) I	(22) —
23	—	—	—	Not Occupied	—	—
(24) 24	(24) 0.3 5	(24) BN / WH	(24) 1123 3	(24) Radio Switch Power ON/OFF Switch Signal	(24) I	(24) —
(25) 25	(25) 0.3 5	(25) VT / WH	(25) 1124 5	(25) Radio Switch Buttons Signal	(25) I	(25) —
(26) 26	(26) 0.3 5	(26) BU	(26) 1123 5	(26) Radio Switch Volume Up Signal	(26) I	(26) —
(27) 27	(27) 0.3 5	(27) GY / BN	(27) 1123 4	(27) Radio Switch Volume Down Signal	(27) I	(27) —
28 - 29	—	—	—	Not Occupied	—	—

A11 Radio X2 (IOR)



4584398

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 160014-0013
- Service Connector: 13534973
- Description: 29-Way F 0.5 NANO, 1.2 MCON, stAK50h Series(LT GY with GY Inner Connector)

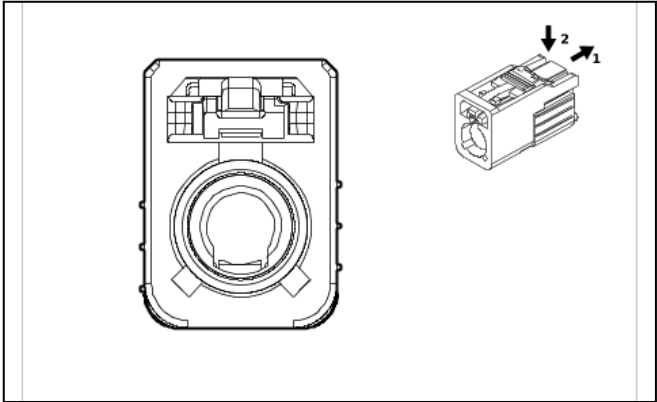
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

A11 Radio X2 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GN	(1) 199	(1) Left Rear Speaker [+] Control	(1) II	(1) —
(2) 2	(2) 0.75	(2) BU	(2) 201	(2) Left Front Speaker 1 [+] Control	(2) II	(2) —
(3) 3	(3) 0.75	(3) YE	(3) 200	(3) Right Front Speaker 1 [+] Control	(3) II	(3) —
(4) 4	(4) 0.75	(4) BU / BK	(4) 115	(4) Right Rear Speaker [-] Control	(4) II	(4) —
(5) 5	(5) 0.75	(5) BN / BU	(5) 118	(5) Left Front Speaker [-] Control 1	(5) II	(5) —
(6) 6	(6) 0.75	(6) YE / BK	(6) 117	(6) Right Front Speaker [-] Control 1	(6) II	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.75	(8) WH	(8) 46	(8) Right Rear Speaker [+] Control	(8) II	(8) —
(9) 9	(9) 0.35	(9) BK / GY	(9) 5152	(9) Voice Recognition Audio [-] Control	(9) I	(9) —
(10) 10	(10) 0.35	(10) GY / YE	(10) 5149	(10) Voice Recognition Audio Signal	(10) I	(10) —
11 - 29	—	—	—	Not Occupied	—	—

A11 Radio X3 (IOK)



5794617

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33340318
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(CU)

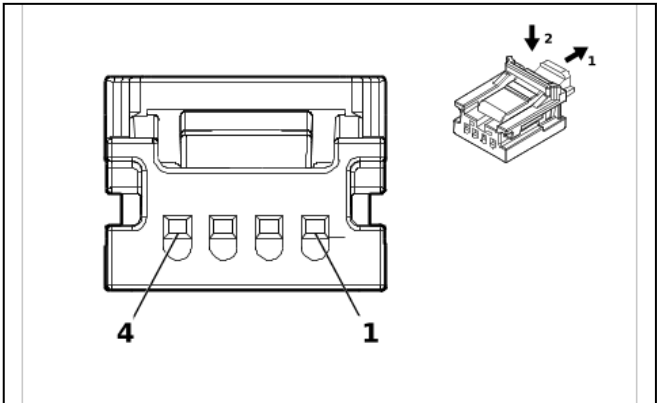
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

A11 Radio X3 (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	(XM +/-HD) Coaxial Antenna XM Signal	I	—

A11 Radio X3 (IOR)



5493278

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 34791-5140
- Service Connector: 19354840
- Description: 4-Way F Mini 50 Series(BK)

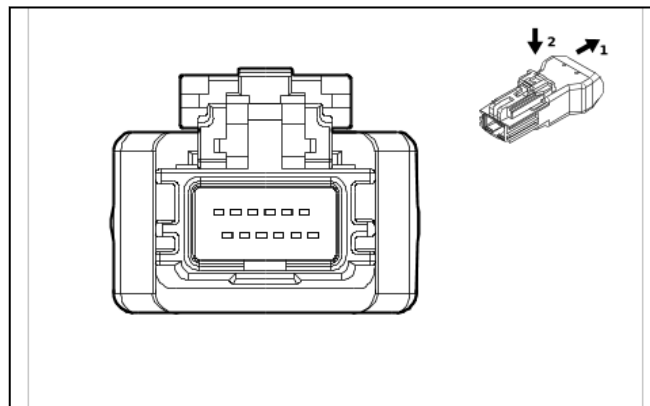
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Service by Cable	EL-35616-58 (BK)	EL-38125-58

A11 Radio X3 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.35	(2) YE	(2) 4758	(2) Ethernet Bus 2 [+]	(2) I	(2) —
(3) 3	(3) 0.35	(3) BU	(3) 4757	(3) Ethernet Bus 2 [-]	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

A11 Radio X4 (IOR)



6410264

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 111146-3000
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 12-Way M 2.0 HSAL-2 Series(BK)

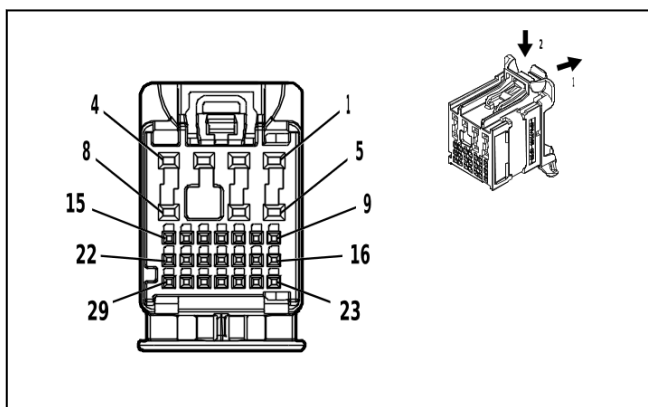
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

A11 Radio X4 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0	(1) BARE	(1) 4844	(1) Radio LVDS (Low Voltage Differential Signaling) Low Reference	(1) I	(1) —
(2) 2	(2) 0	(2) BARE	(2) 4845	(2) Radio LVDS (Low Voltage Differential Signaling) Signal [+]	(2) I	(2) —
(3) 3	(3) 0	(3) BARE	(3) 4846	(3) Radio LVDS (Low Voltage Differential Signaling) Signal [-]	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0	(7) BARE	(7) 7899	(7) Auxiliary Audio/Video Jack USB Serial Data Supply Voltage	(7) I	(7) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0	(9) BARE	(9) 7896	(9) Auxiliary Audio/Video Jack USB [+] Serial Data	(9) I	(9) —
(10) 10	(10) 0	(10) BARE	(10) 7897	(10) Auxiliary Audio/Video Jack USB [-] Serial Data	(10) I	(10) —
11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0	(12) BARE	(12) 7898	(12) Auxiliary Audio/Video Jack USB Low Reference	(12) I	(12) —

A11 Radio X5 (IOK)

4496253

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 160014-0014
- Service Connector: 13534974
- Description: 29-Way F 0.5 NANO, 1.2 MCON, stAK50h Series(BK with GY Inner Connector)

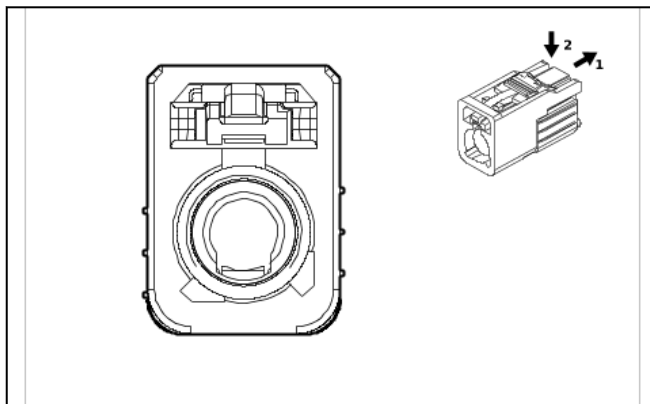
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

A11 Radio X5 (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / YE	(1) 2340	(1) Battery Positive Voltage	(1) II	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.75	(3) BK / WH	(3) 1051	(3) Signal Ground	(3) II	(3) —
4 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.75	(8) GN / BK	(8) 116	(8) Left Rear Speaker [-] Control	(8) II	(8) —
(9) 9	(9) 0.35	(9) GY / YE	(9) 655	(9) Cellular Telephone Microphone Signal	(9) I	(9) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(10) 10	(10) 0.3 5	(10) BK / GY	(10) 654	(10) Cellular Telephone Microphone Low Reference	(10) I	(10) —
(11) 11	(11) 0.3 5	(11) VT / YE	(11) 7043	(11) Microphone [+] Signal	(11) I	(11) —
(12) 12	(12) 0.3 5	(12) BU / BK	(12) 7044	(12) Microphone [-] Signal	(12) I	(12) —
13 - 29	—	—	—	Not Occupied	—	—

A11 Radio X5 (IOR)

5191842

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33340320
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(OG)

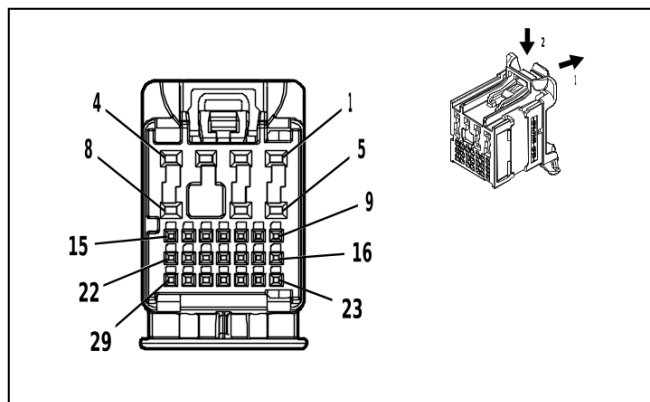
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

A11 Radio X5 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Rear Vision Camera Coaxial Video Signal	I	—

A11 Radio X6 (IOK)



4578560

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 160014-0011
- Service Connector: 13534971
- Description: 29-Way F 0.5 NANO, 1.2 MCON, stAK50h Series(DK GY with GY Inner Connector)

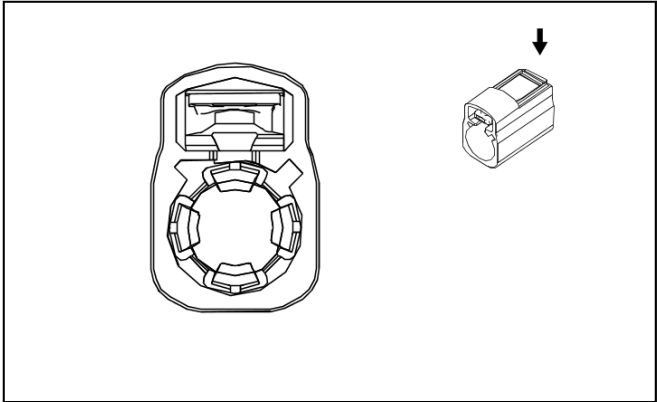
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

A11 Radio X6 (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GN	(1) 199	(1) Left Rear Speaker [+] Control	(1) II	(1) —
(2) 2	(2) 0.75	(2) BU	(2) 201	(2) Left Front Speaker 1 [+] Control	(2) II	(2) —
(3) 3	(3) 0.75	(3) YE / BK	(3) 117	(3) Right Front Speaker [-] Control 1	(3) II	(3) —
(4) 4	(4) 0.75	(4) BU / BK	(4) 115	(4) Right Rear Speaker [-] Control	(4) II	(4) —
(5) 5	(5) 0.75	(5) BN / BU	(5) 118	(5) Left Front Speaker [-] Control 1	(5) II	(5) —
(6) 6	(6) 0.75	(6) YE	(6) 200	(6) Right Front Speaker 1 [+] Control	(6) II	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.75	(8) WH	(8) 46	(8) Right Rear Speaker [+] Control	(8) II	(8) —
(9) 9	(9) 0.35	(9) BU / WH	(9) 4985	(9) AUTOSAR CAN Bus [+] 5 Serial Data	(9) I	(9) —
(10) 10	(10) 0.35	(10) BU / YE	(10) 4984	(10) AUTOSAR CAN Bus [-] 5 Serial Data	(10) I	(10) —
11 - 12	—	—	—	Not Occupied	—	—
(13) 13	(13) 0.35	(13) GN / WH	(13) 24	(13) Backup Lamp Control	(13) I	(13) —
14 - 29	—	—	—	Not Occupied	—	—

A11 Radio X6 (IOR)



2908476

Connector Part Information

- Harness Type: Radio Antenna Cable Extension Cable COAX
- OEM Connector: 12784257
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BK)

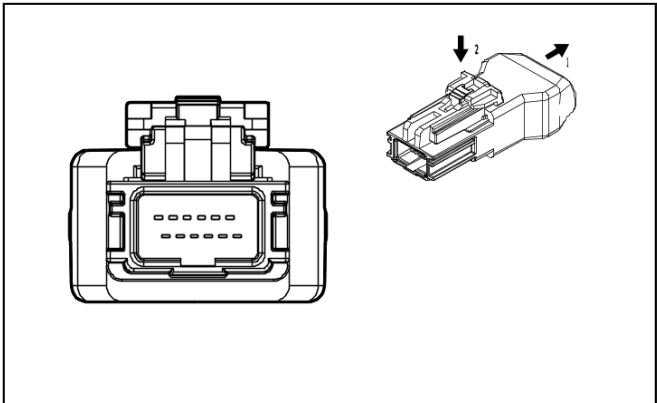
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

A11 Radio X6 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	(AM/FM) Antenna RF Signal	I	—

A11 Radio X7 (IOK)



4584321

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 111146-7100
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 12-Way M 2.0 HSAL-2 Series(GY)

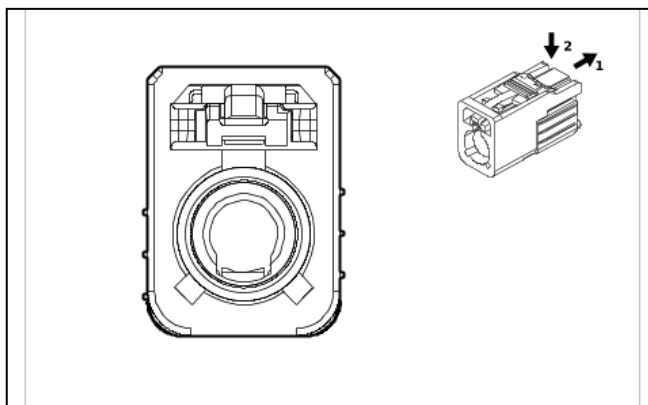
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

A11 Radio X7 (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0	(1) BARE	(1) 7853	(1) Center Stack LVDS (Low Voltage Differential Signaling) Low Reference	(1) I	(1) —
(2) 2	(2) 0	(2) BARE	(2) 7854	(2) Center Stack LVDS (Low Voltage Differential Signaling) Signal [+]	(2) I	(2) —
(3) 3	(3) 0	(3) BARE	(3) 7855	(3) Center Stack LVDS (Low Voltage Differential Signaling) Signal [-]	(3) I	(3) —
(4) 4	(4) 0	(4) BARE	(4) 7847	(4) Center Stack LVDS (Low Voltage Differential Signaling) 2 Low Reference	(4) I	(4) —
(5) 5	(5) 0	(5) BARE	(5) 7848	(5) Center Stack LVDS (Low Voltage Differential Signaling) 2 Signal [+]	(5) I	(5) —
(6) 6	(6) 0	(6) BARE	(6) 7849	(6) Center Stack LVDS (Low Voltage Differential Signaling) 2 Signal [-]	(6) I	(6) —
7 - 12	—	—	—	Not Occupied	—	—

A11 Radio X7 (IOR)



5794617

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33340318
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(CU)

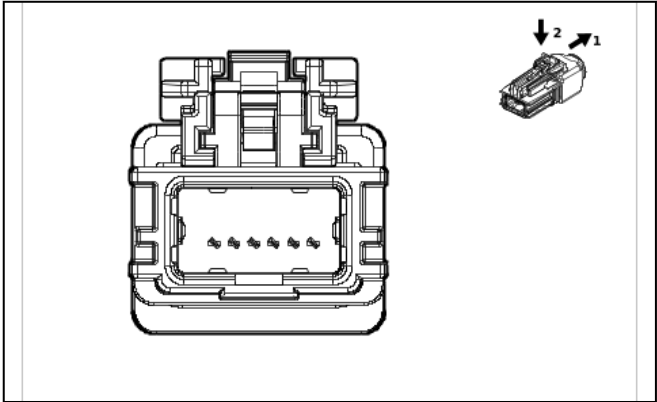
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

A11 Radio X7 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	(XM +/-HD) Coaxial Antenna XM Signal	I	—

A11 Radio X8 (IOK)



5987912

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness USB
- OEM Connector: 111146-7050
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 12-Way M 2.0 HSAL-2 Series(BK)

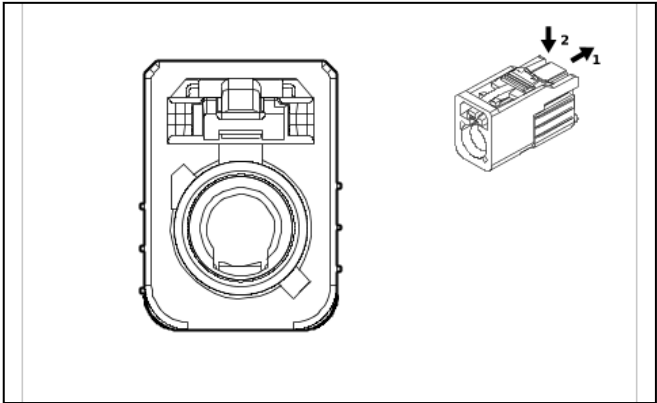
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

A11 Radio X8 (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

A11 Radio X8 (IOR)



5518456

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33340317
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BG)

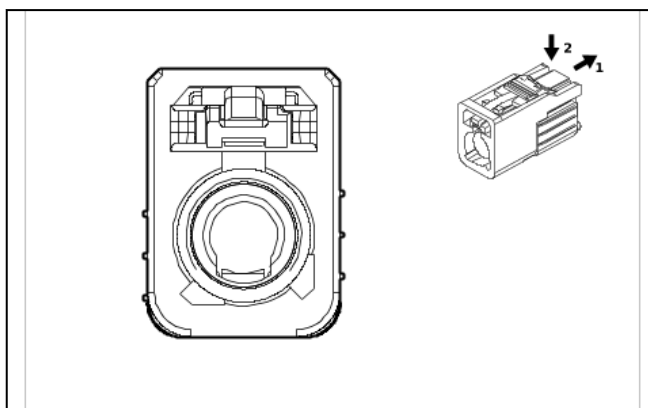
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

A11 Radio X8 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	WiFi Antenna Coaxial Signal	I	—

A11 Radio X9 (IOK)



5191842

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33340320
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(OG)

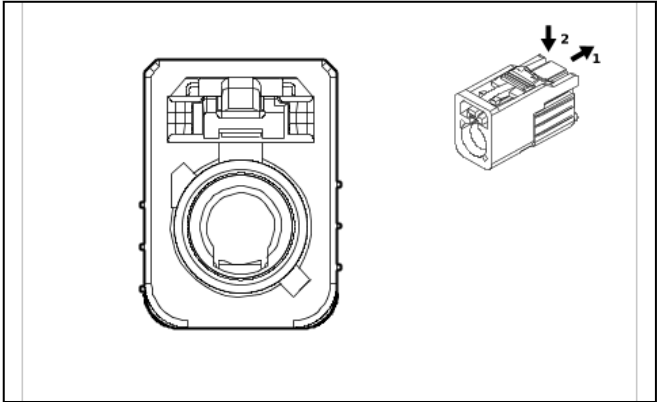
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

A11 Radio X9 (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Video Processing Module Coaxial Video Signal	I	—

A11 Radio X10 (IOK)



5518456

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33340317
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BG)

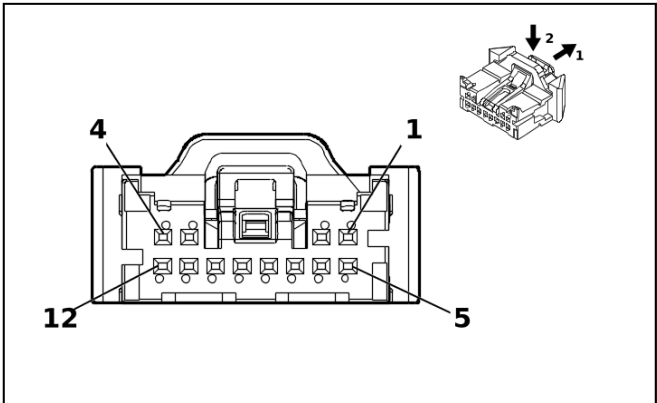
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

A11 Radio X10 (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	WiFi Antenna Coaxial Signal	I	—

A11 Radio X11 (IOK)



5360826

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35068239
- Service Connector: 13529935
- Description: 12-Way F 050 CTS Series(BK)

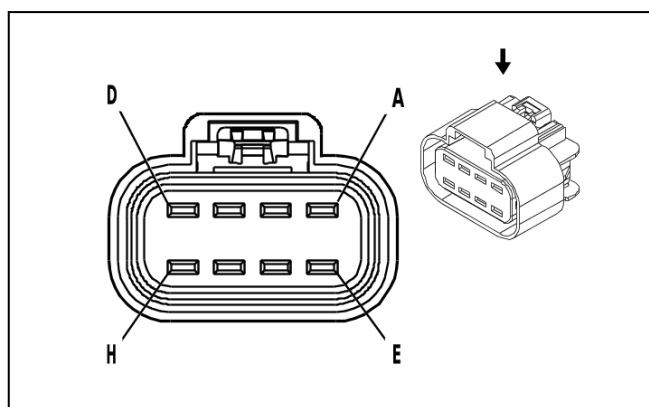
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Service by Cable	EL-35616-58 (BK)	EL-38125-58

A11 Radio X11 (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) YE	(3) 4758	(3) Ethernet Bus 2 [+]	(3) I	(3) —
(4) 4	(4) 0.35	(4) BU	(4) 4757	(4) Ethernet Bus 2 [-]	(4) I	(4) —
5 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.35	(8) YE	(8) 7215	(8) Ethernet Bus 6 [+]	(8) I	(8) —
(9) 9	(9) 0.35	(9) GN	(9) 7214	(9) Ethernet Bus 6 [-]	(9) I	(9) —
10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.3 5	(11) BN	(11) 7211	(11) Ethernet Bus 4 [+]	(11) I	(11) —
(12) 12	(12) 0.3 5	(12) GY	(12) 7210	(12) Ethernet Bus 4 [-]	(12) I	(12) —

A16 Transfer Case Four Wheel Drive Actuator (NP0 / NQH)



646372

Connector Part Information

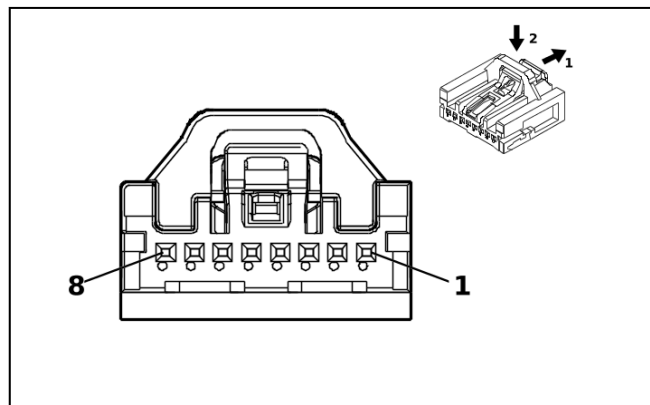
- Harness Type: Engine Wiring Harness
- OEM Connector: 13538370
- Service Connector: 19369184
- Description: 8-Way F 280 GT Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

A16 Transfer Case Four Wheel Drive Actuator (NP0 / NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.5	YE / GY	1552	Transfer Case Motor Clockwise Control	I	—
B	0.75	BU	8013	Transfer Case Lock Solenoid Control 2	I	—
C	0.75	YE / BN	1569	Transfer Case Lock Solenoid Valve Control	I	—
D	2.5	YE / VT	1553	Transfer Case Motor Counter Clockwise Control	I	—
E	0.5	YE	7474	Incremental Encoder Direction Signal	I	—
F	0.5	BU / GY	7473	Incremental Encoder Impulse Signal	I	—
G	0.5	WH / GN	7475	Incremental Encoder Sensor Voltage Reference	I	—
H	0.5	VT	7476	Incremental Encoder Sensor Low Reference	I	—

A22 Radio Control X1

5200269

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35068228
- Service Connector: 84769201
- Description: 8-Way F Mini 50 Series(BK)

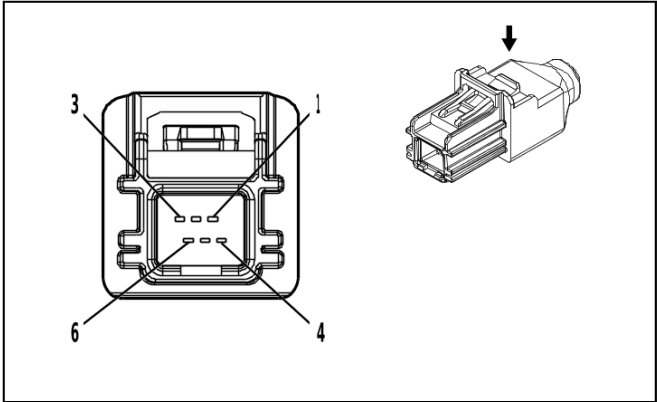
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

A22 Radio Control X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) RD / WH	(1) 1340	(1) Battery Positive Voltage	(1) I	(1) —
2 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.35	(8) BK / WH	(8) 1051	(8) Signal Ground	(8) I	(8) —

A22 Radio Control X2



4806625

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 100337-1020
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 6-Way M HSAL-2 Series(BK)

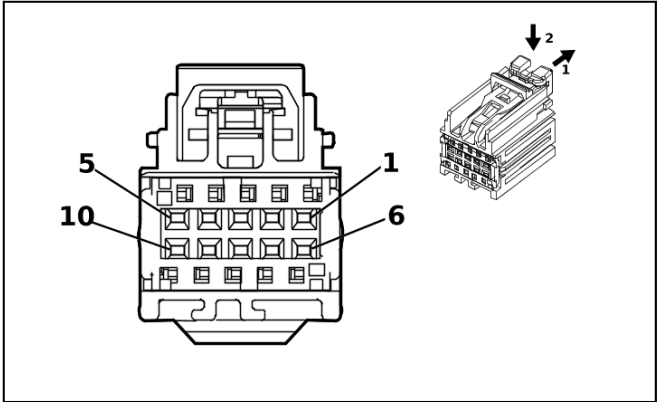
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

A22 Radio Control X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0	(1) BARE	(1) 7853	(1) Center Stack LVDS (Low Voltage Differential Signaling) Low Reference	(1) I	(1) —
(2) 2	(2) 0	(2) BARE	(2) 7854	(2) Center Stack LVDS (Low Voltage Differential Signaling) Signal [+]	(2) I	(2) —
(3) 3	(3) 0	(3) BARE	(3) 7855	(3) Center Stack LVDS (Low Voltage Differential Signaling) Signal [-]	(3) I	(3) —
(4) 4	(4) 0	(4) BARE	(4) 7848	(4) Center Stack LVDS (Low Voltage Differential Signaling) 2 Signal [+]	(4) I	(4) —
(5) 5	(5) 0	(5) BARE	(5) 7849	(5) Center Stack LVDS (Low Voltage Differential Signaling) 2 Signal [-]	(5) I	(5) —
(6) 6	(6) 0	(6) BARE	(6) 7847	(6) Center Stack LVDS (Low Voltage Differential Signaling) 2 Low Reference	(6) I	(6) —

A23D Front Side Door Latch - Driver



4622549

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Driver
- OEM Connector: 7289-5068-60
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 0.64 Kaizen Series(GN)

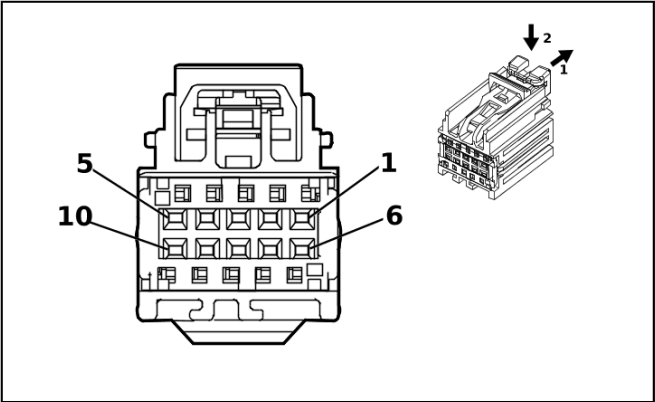
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

A23D Front Side Door Latch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY	(1) 745	(1) Left Front Door Ajar Switch Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / GY	(2) 126	(2) Left Front Door Open Switch Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK	(3) 1550	(3) Ground	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH / VT	(4) 4258	(4) Left Front Door Lock Status Signal	(4) I	(4) —
5 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.75	(7) GY	(7) 2681	(7) Left Front Door Lock Actuator Lock Control	(7) I	(7) —
(8) 8	(8) 0.75	(8) WH	(8) 2679	(8) Lock Actuators Unlock Control 1	(8) I	(8) —
9 - 10	—	—	—	Not Occupied	—	—

A23LR Rear Side Door Latch - Left



4622549

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Left Rear
- OEM Connector: 7289-5068-60
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 0.64 Kaizen Series(GN)

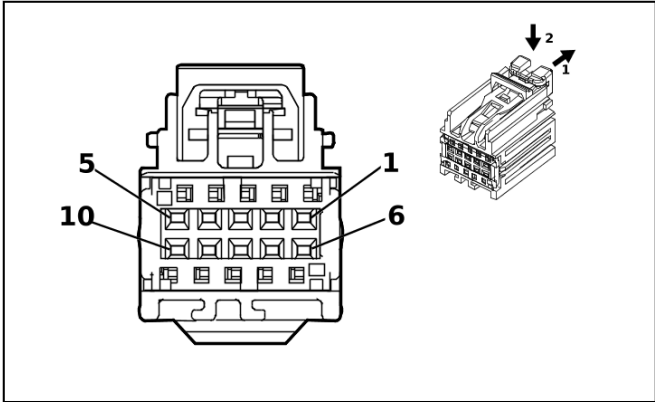
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

A23LR Rear Side Door Latch - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY	(1) 747	(1) Left Rear Door Ajar Switch Signal	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) BK	(3) 1550	(3) Ground	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.75	(7) BU / YE	(7) 1091	(7) Left Rear Door Lock Actuator Lock Control	(7) I	(7) —
(8) 8	(8) 0.75	(8) WH	(8) 2679	(8) Lock Actuators Unlock Control 1	(8) I	(8) —
9 - 10	—	—	—	Not Occupied	—	—

A23P Front Side Door Latch - Passenger



4622549

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 7289-5068-60
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 0.64 Kaizen Series(GN)

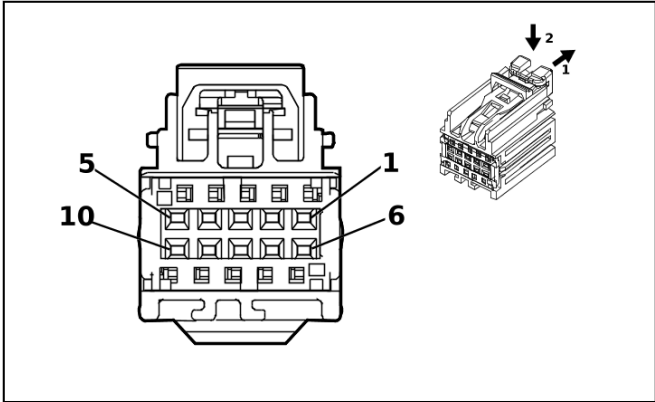
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

A23P Front Side Door Latch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) BK	(3) 1350	(3) Ground	(3) I	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) GY	(5) 746	(5) Right Front Door Ajar Switch Signal	(5) I	(5) —
6 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.75	(8) GY / BK	(8) 2680	(8) Lock Actuators Unlock Control 2	(8) I	(8) —
(9) 9	(9) 0.75	(9) YE / GN	(9) 2682	(9) Right Front Door Lock Actuator Lock Control	(9) I	(9) —
10	—	—	—	Not Occupied	—	—

A23RR Rear Side Door Latch - Right



4622549

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Right Rear
- OEM Connector: 7289-5068-60
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 0.64 Kaizen Series(GN)

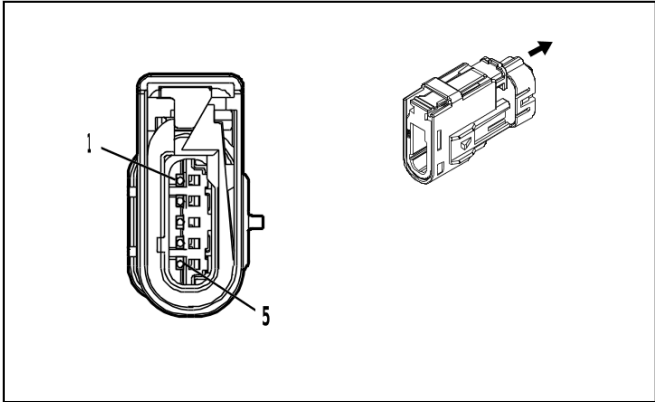
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

A23RR Rear Side Door Latch - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) BK	(3) 1350	(3) Ground	(3) I	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) GY	(5) 748	(5) Right Rear Door Ajar Switch Signal	(5) I	(5) —
6 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.75	(8) GY / BK	(8) 2680	(8) Lock Actuators Unlock Control 2	(8) I	(8) —
(9) 9	(9) 0.75	(9) VT / WH	(9) 1094	(9) Right Rear Door Lock Actuator Lock Control	(9) I	(9) —
10	—	—	—	Not Occupied	—	—

A24D Front Side Door Outside Handle - Left



4808321

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Driver
- OEM Connector: SRVWSB-04A-BS
- Service Connector: Service by Harness - See Part Catalog
- Description: 5-Way M 1.2 Series, Sealed(NA)

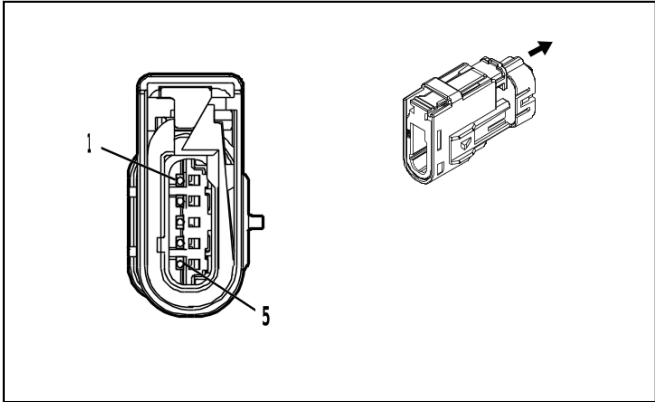
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

A24D Front Side Door Outside Handle - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU	(1) 2675	(1) Left Front Exterior Door Handle Switch Unlock Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT	(2) 4301	(2) Passive Entry Left Antenna Signal High	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.5	(4) VT / GY	(4) 4302	(4) Passive Entry Left Antenna Signal Low	(4) I	(4) —
(5) 5	(5) 0.5	(5) BK / WH	(5) 1551	(5) Signal Ground	(5) I	(5) —

A24P Front Side Door Outside Handle - Right



4808321

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Passenger
- OEM Connector: SRVWSB-04A-BS
- Service Connector: Service by Harness - See Part Catalog
- Description: 5-Way M 1.2 Series, Sealed(NA)

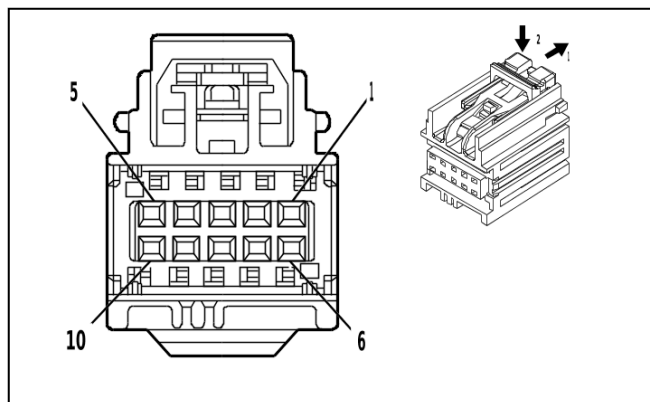
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

A24P Front Side Door Outside Handle - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / VT	(1) 2676	(1) Right Front Door Exterior Switch Unlock Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / YE	(2) 4303	(2) Passive Entry Right Antenna Signal High	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.5	(4) GN / BK	(4) 4304	(4) Passive Entry Right Antenna Signal Low	(4) I	(4) —
(5) 5	(5) 0.5	(5) BK / WH	(5) 1451	(5) Signal Ground	(5) I	(5) —

A26 Heater and Air Conditioning User Interface Control - Front



4891168

Connector Part Information

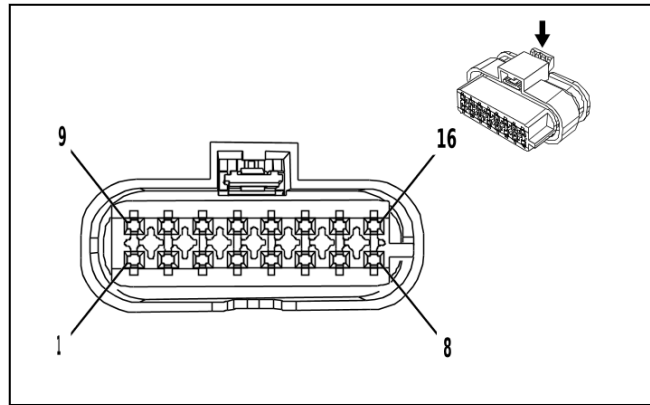
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 7289-4885
- Service Connector: 13509649
- Description: 10-Way F 0.64 Kaizen Series(NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300629	J-35616-64B (L-BU)	J-38125-215A

A26 Heater and Air Conditioning User Interface Control - Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / WH	(1) 1340	(1) Battery Positive Voltage	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) BU / WH	(3) 4985	(3) AUTOSAR CAN Bus [+] 5 Serial Data	(3) I	(3) —
(4) 4	(4) 0.35	(4) BU / WH	(4) 4985	(4) AUTOSAR CAN Bus [+] 5 Serial Data	(4) I	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.35	(6) GY / GN	(6) 4636	(6) HVAC System Enable Signal	(6) I	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.35	(8) BU / YE	(8) 4984	(8) AUTOSAR CAN Bus [-] 5 Serial Data	(8) I	(8) —
(9) 9	(9) 0.35	(9) BU / GY	(9) 4984	(9) AUTOSAR CAN Bus [-] 5 Serial Data	(9) I	(9) —
(10) 10	(10) 0.5	(10) BK / WH	(10) 851	(10) Signal Ground	(10) I	(10) —

A38 Reductant Tank Fluid Supply Pump Module (LZ0)

4259227

Connector Part Information

- Harness Type: Emission Reduction Fluid Tank Reservoir Wire Harness
- OEM Connector: 33210848
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way F 1.2 MLK Series, Sealed(BK)

Terminal Part Information

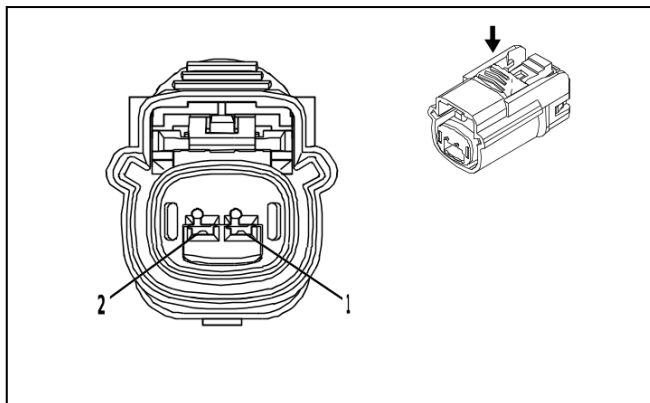
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
I	Not required	J-35616-16 (L-GN)	No Tool Required

A38 Reductant Tank Fluid Supply Pump Module (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 3244	(1) Diesel Exhaust Fluid Tank Temperature Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN	(2) 3245	(2) Diesel Exhaust Fluid Tank Temperature Sensor Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU	(3) 3107	(3) Diesel Exhaust Fluid Pressure Sensor Low Reference	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU	(4) 3108	(4) Diesel Exhaust Fluid Pressure Sensor Signal	(4) I	(4) —
(5) 5	(5) 0.5	(5) BN	(5) 3106	(5) Diesel Exhaust Fluid Pressure Sensor 5 Volt Reference	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 1	(7) WH	(7) 3103	(7) Diesel Exhaust Fluid Smart Pump Control	(7) I	(7) —
(8) 8	(8) 1	(8) BN	(8) 3875	(8) Diesel Exhaust Fluid Smart Pump Supply Voltage Phase 2	(8) I	(8) —
(9) 9	(9) 1	(9) YE	(9) 3677	(9) Diesel Exhaust Fluid Reservoir Heater Control	(9) I	(9) —
(10) 10	(10) 1	(10) BN	(10) 3676	(10) Diesel Exhaust Fluid Heating Tank 2 Heater Control	(10) I	(10) —
(11) 11	(11) 1	(11) BU	(11) 4318	(11) Diesel Exhaust Fluid Tank Heater Low Control	(11) I	(11) —
12 - 13	—	—	—	Not Occupied	—	—
(14) 14	(14) 1	(14) BU	(14) 2937	(14) Diesel Exhaust Fluid Pump Motor Stator Low Reference	(14) I	(14) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(15) 15	(15) 1	(15) BN	(15) 2936	(15) Diesel Exhaust Fluid Heating Tank 2 Heater Control Low	(15) I	(15) —
(16) 16	(16) 1	(16) YE	(16) 3876	(16) Diesel Exhaust Fluid Smart Pump Supply Voltage Phase 3	(16) I	(16) —

A99L Pickup Box Endgate Latch - Left



4332222

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 15514573
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 OCS Series, Sealed(BK)

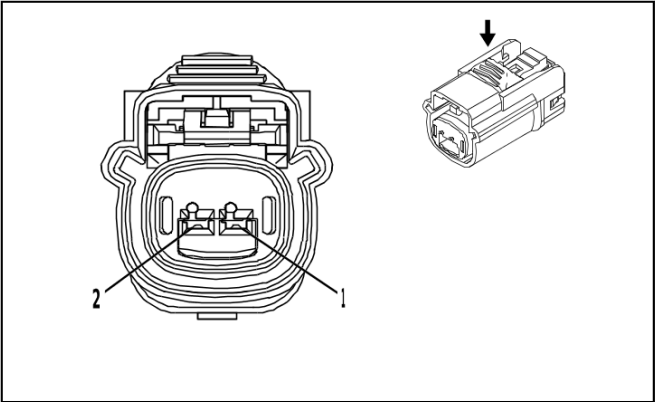
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

A99L Pickup Box Endgate Latch - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) GN	(1) 1299	(1) Major Endgate Motor Control	(1) I	(1) —
(2) 2	(2) 1	(2) YE / BK	(2) 7730	(2) Major Endgate Motor Low Reference	(2) I	(2) —

A99R Pickup Box Endgate Latch - Right



4332222

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 15514573
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 OCS Series, Sealed(BK)

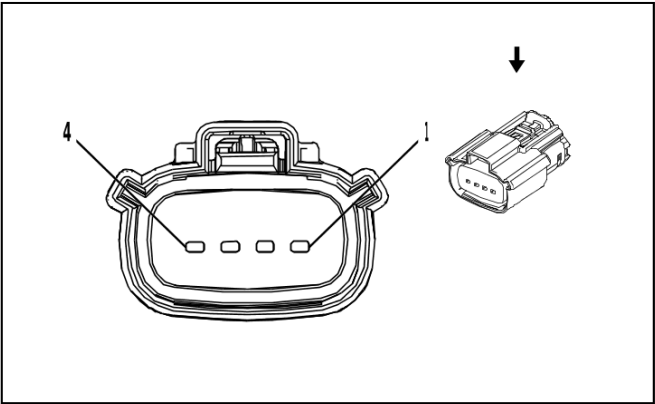
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

A99R Pickup Box Endgate Latch - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) GN	(1) 1299	(1) Major Endgate Motor Control	(1) I	(1) —
(2) 2	(2) 1	(2) YE / BK	(2) 7730	(2) Major Endgate Motor Low Reference	(2) I	(2) —

A100L Pickup Box Auxiliary Endgate Latch - Left



2474747

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 33471-0406
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.5 Series, Sealed(BK)

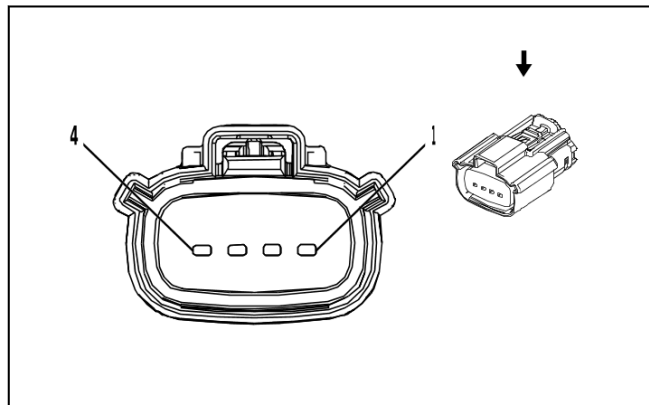
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

A100L Pickup Box Auxiliary Endgate Latch - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) YE / BU	(1) 7295	(1) Left Minor Endgate Ajar Signal	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK	(2) 1850	(2) Ground	(2) I	(2) —
(3) 3	(3) 1	(3) YE / BK	(3) 7730	(3) Major Endgate Motor Low Reference	(3) I	(3) —
(4) 4	(4) 1	(4) VT	(4) 7725	(4) Minor Endgate Motor Control	(4) I	(4) —

A100R Pickup Box Auxiliary Endgate Latch - Right



2474747

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 33471-0406
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.5 Series, Sealed(BK)

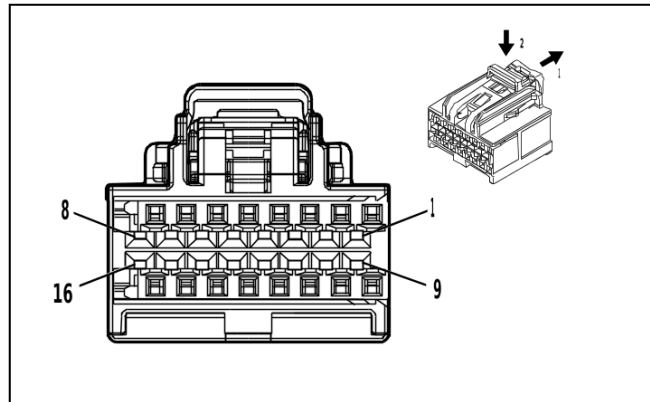
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

A100R Pickup Box Auxiliary Endgate Latch - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) YE / BK	(1) 7730	(1) Major Endgate Motor Low Reference	(1) I	(1) —
(2) 2	(2) 1	(2) VT	(2) 7725	(2) Minor Endgate Motor Control	(2) I	(2) —
3 - 4	—	—	—	Not Occupied	—	—

A103 Roof Console X1



4873254

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 35016344
- Service Connector: 13519739
- Description: 16-Way F 0.64 OCS Series(GY)

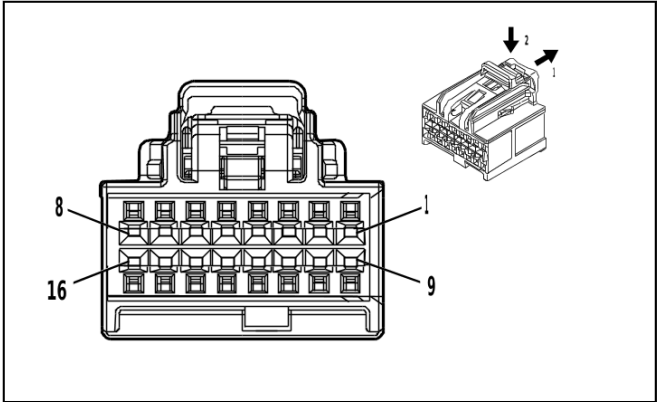
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300660	J-35616-64B (L-BU)	J-38125-215A

A103 Roof Console X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1050	(1) Ground	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) YE	(3) 6817	(3) LED Backlight Dimming Control 1	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.35	(7) WH / BN	(7) 2904	(7) Row 2 Dome Reading Lamp Switch Signal	(7) I	(7) —
(8) 8	(8) 0.35	(8) VT / GY	(8) 2906	(8) Row 2 Dome Reading Lamp 2 Switch Signal	(8) I	(8) —
(9) 9	(9) 0.5	(9) RD / YE	(9) 240	(9) Battery Positive Voltage	(9) I	(9) —
(10) 10	(10) 0.5	(10) GN / WH	(10) 2854	(10) Body Control Module LIN Bus 8	(10) I	(10) —
(11) 11	(11) 0.3 5	(11) BU / GN	(11) 4785	(11) Interior Lamp Overhead Enable Signal	(11) I	(11) —
(12) 12	(12) 0.3 5	(12) GY / WH	(12) 2369	(12) Interior Lamp Overhead 2 Enable Signal	(12) I	(12) —
(13) 13	(13) 0.3 5	(13) GN / YE	(13) 2903	(13) Row 2 Dome Reading Lamp Interior Lamp Control	(13) I	(13) —
(14) 14	(14) 0.3 5	(14) BN / BU	(14) 2905	(14) Row 2 Dome Reading Lamp 2 Interior Lamp Control	(14) I	(14) —
15	—	—	—	Not Occupied	—	—
(16) 16	(16) 0.5	(16) BK	(16) 1050	(16) Ground	(16) I	(16) —

A103 Roof Console X2



4873243

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 35016343
- Service Connector: 13519738
- Description: 16-Way F 0.64 OCS Series(BK)

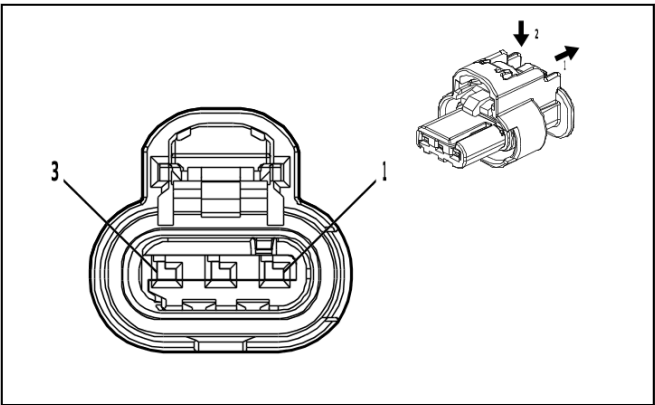
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19354230	J-35616-64B (L-BU)	J-38125-215A

A103 Roof Console X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) YE / VT	(1) 2516	(1) Telematics Switch Green LED Indicator Control	(1) I	(1) —
(2) 2	(2) 0.35	(2) BN / WH	(2) 2517	(2) Telematics Switch Red LED Indicator Control	(2) I	(2) —
(3) 3	(3) 0.35	(3) GN / WH	(3) 2514	(3) Telematics Switch Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) GN / BK	(4) 2515	(4) Telematics Switch Supply Voltage	(4) I	(4) —
(5) 5	(5) 0.35	(5) BK / WH	(5) 851	(5) Signal Ground	(5) I	(5) —
(6) 6	(6) 0.35	(6) YE / VT	(6) 6191	(6) Power Rear Window Switch Open Signal	(6) I	(6) —
(7) 7	(7) 0.35	(7) WH	(7) 6192	(7) Sliding Rear Window Switch Close Signal	(7) I	(7) —
(8) 8	(8) 0.5	(8) VT	(8) 801	(8) Retained Accessory Power Control	(8) I	(8) —
9 - 16	—	—	—	Not Occupied	—	—

B1 Air Conditioning Refrigerant Pressure Sensor



4581126

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

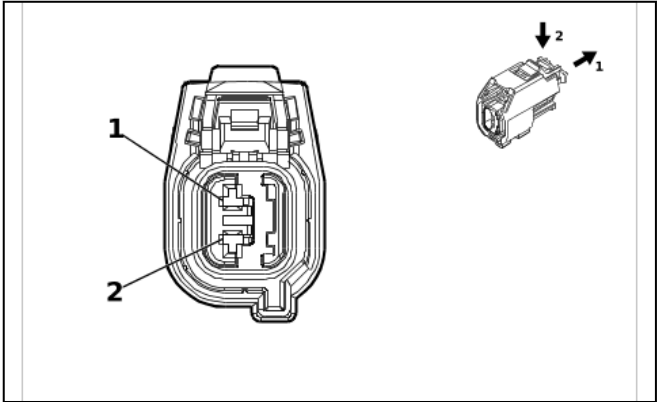
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B1 Air Conditioning Refrigerant Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / RD	(1) 480	(1) Engine Control Vehicle Sensors 5 Volt Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN	(2) 380	(2) Air Conditioning Refrigerant Pressure Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / GY	(3) 626	(3) Engine Control Vehicle Sensors Low Reference 1	(3) I	(3) —

B5LF Front Wheel Speed Sensor - Left



5666214

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 33189092
- Service Connector: 85526683
- Description: 2-Way F 1.5 OCS Series, Sealed(GY)

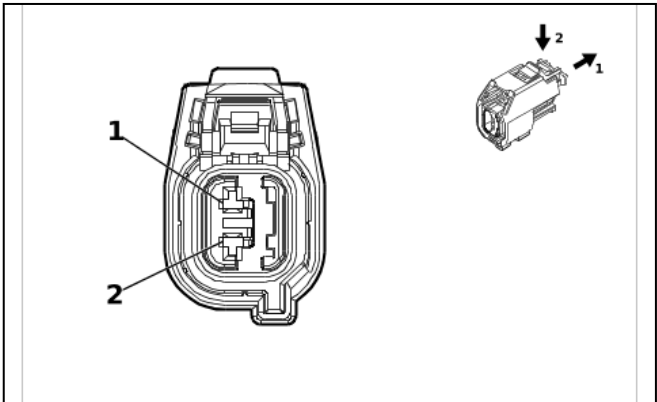
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B5LF Front Wheel Speed Sensor - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / WH	(1) 7064	(1) Left Front Wheel Speed Sensor Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) GY	(2) 830	(2) Left Front Wheel Speed Sensor Signal	(2) I	(2) —

B5LR Rear Wheel Speed Sensor - Left



5666214

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 33189092
- Service Connector: 85526683
- Description: 2-Way F 1.5 OCS Series, Sealed(GY)

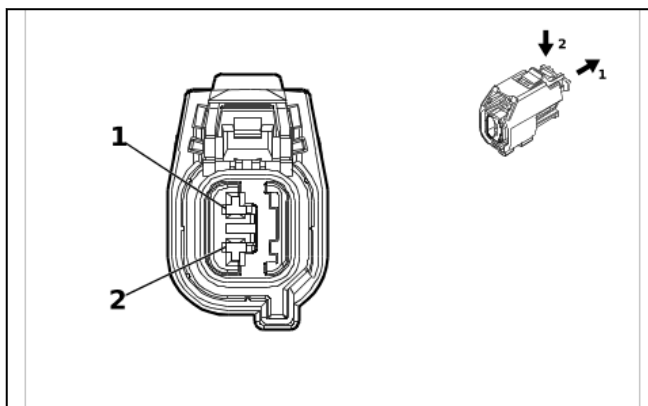
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B5LR Rear Wheel Speed Sensor - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / BK	(1) 7127	(1) Left Rear Wheel Speed Sensor Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 884	(2) Left Rear Wheel Speed Sensor Signal	(2) I	(2) —

B5RF Front Wheel Speed Sensor - Right



5666214

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 33189092
- Service Connector: 85526683
- Description: 2-Way F 1.5 OCS Series, Sealed(GY)

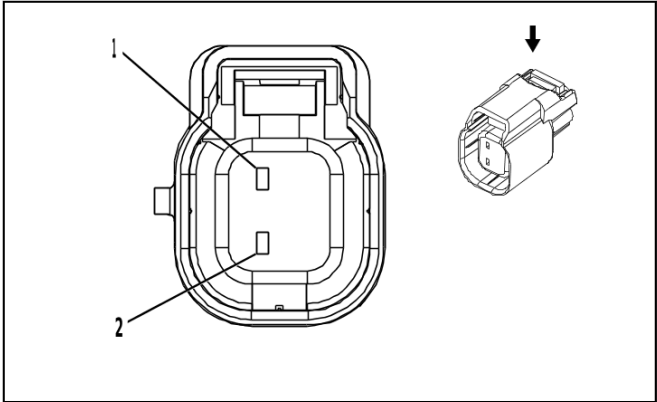
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B5RF Front Wheel Speed Sensor - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / BN	(1) 7065	(1) Right Front Wheel Speed Sensor Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE	(2) 872	(2) Right Front Wheel Speed Sensor Signal	(2) I	(2) —

B5RR Rear Wheel Speed Sensor - Right



4115616

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 34062-0046
- Service Connector: 19366860
- Description: 2-Way F 1.5 Series, Sealed(BK)

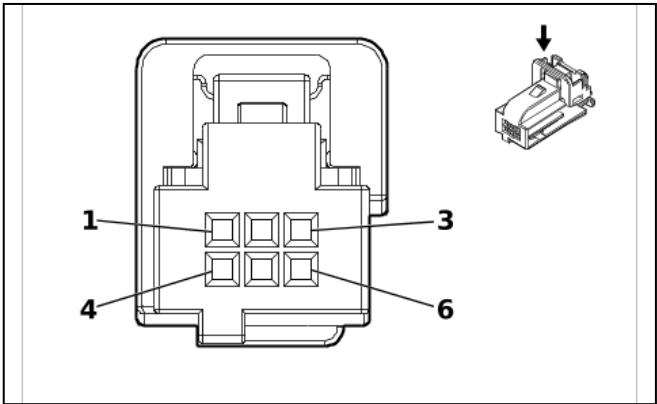
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B5RR Rear Wheel Speed Sensor - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / YE	(1) 7128	(1) Right Rear Wheel Speed Sensor Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT	(2) 882	(2) Right Rear Wheel Speed Sensor Signal	(2) I	(2) —

B10D Sun Load and Ambient Light and Security Indicator Sensor



2282896

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 2294663-1
- Service Connector: 85587649
- Description: 6-Way F 0.64 Micro-Quadlock Series(BK)

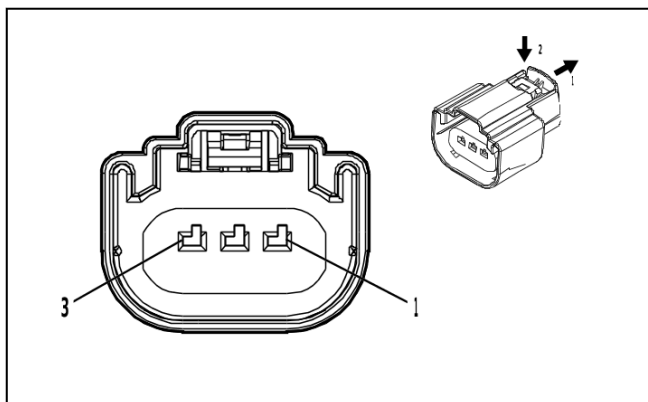
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B10D Sun Load and Ambient Light and Security Indicator Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GY	(1) 590	(1) Driver Solar Sensor Signal	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) WH / BU	(3) 278	(3) Ambient Light Sensor Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) BU / WH	(4) 734	(4) Inside Air Temperature Sensor Signal	(4) I	(4) —
(5) 5	(5) 0.35	(5) GY	(5) 728	(5) Security Indicator Control	(5) I	(5) —
(6) 6	(6) 0.35	(6) BK / YE	(6) 407	(6) Sensor Low Reference	(6) I	(6) —

B11RF Front Suspension 4 Corner Leveling System Position Sensor - Right (Z45)



4569745

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 33343869
- Service Connector: 19179750
- Description: 3-Way F 1.5 MX Series, Sealed(BK)

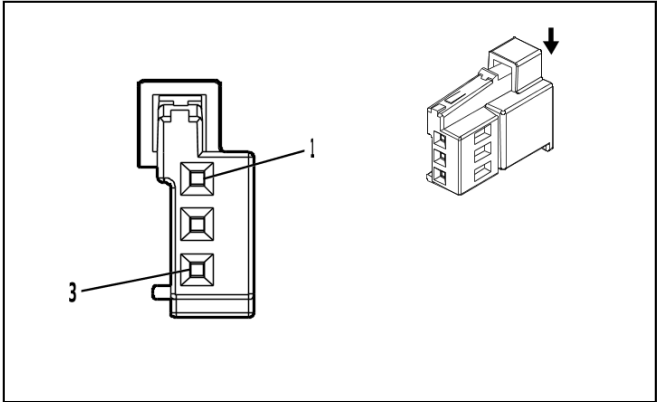
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B11RF Front Suspension 4 Corner Leveling System Position Sensor - Right (Z45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / RD	(1) 1211	(1) Right Front Suspension Position Sensor Voltage Reference	(1) I	(1) Z45
(2) 2	(2) 0.5	(2) BK / GY	(2) 1212	(2) Right Front Suspension Position Sensor Low Reference	(2) I	(2) Z45
(3) 3	(3) 0.5	(3) YE / WH	(3) 1213	(3) Right Front Suspension Position Sensor Signal	(3) I	(3) Z45

B12B Automatic Transmission Fluid Pressure Sensor



4829276

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 2293842-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 0.64 Series(BU)

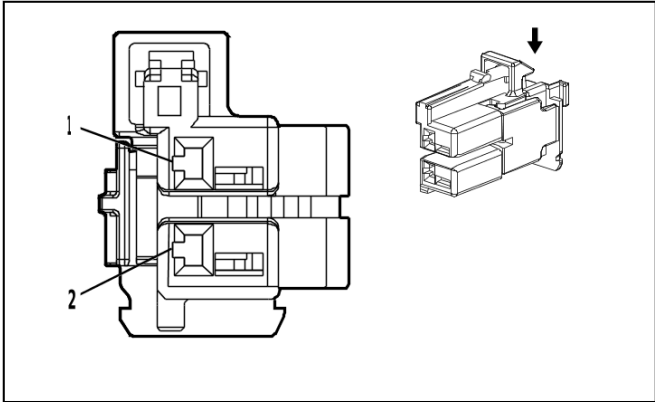
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B12B Automatic Transmission Fluid Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN	(1) 10817	(1) Lubricant Circuit Pressure Sensor 5 Volt Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / BK	(2) 10819	(2) Lubricant Circuit Pressure Sensor Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / YE	(3) 10816	(3) Lubricant Circuit Pressure Sensor Signal	(3) I	(3) —

B13 Automatic Transmission Fluid Temperature Sensor (MHS / MQC)



4672650

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 2289523-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BN)

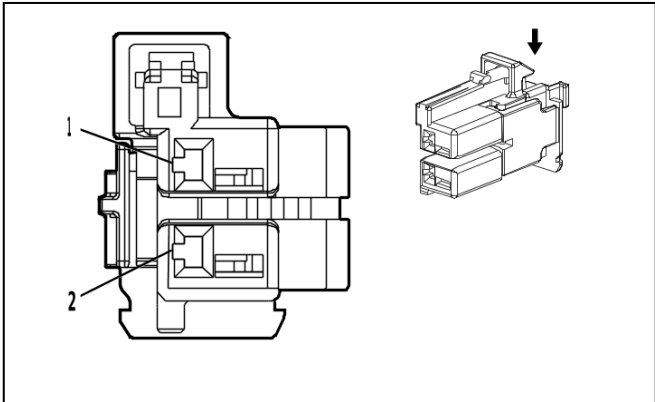
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-65B (L-BU)	No Tool Required

B13 Automatic Transmission Fluid Temperature Sensor (MHS / MQC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / BN	(1) 586	(1) Transmission Fluid Temperature Sensor Low Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / YE	(2) 585	(2) Transmission Fluid Temperature Sensor Signal	(2) I	(2) —

B13 Automatic Transmission Fluid Temperature Sensor (MHT / MI2 / MQB)



4672650

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 2289523-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B13 Automatic Transmission Fluid Temperature Sensor (MHT / MI2 / MQB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / BN	(1) 586	(1) Transmission Fluid Temperature Sensor Low Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / BN	(2) 585	(2) Transmission Fluid Temperature Sensor Signal	(2) I	(2) —

B13 Automatic Transmission Fluid Temperature Sensor (MFC)

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 312004
- Service Connector: Service by Harness - See Part Catalog
- Description: —

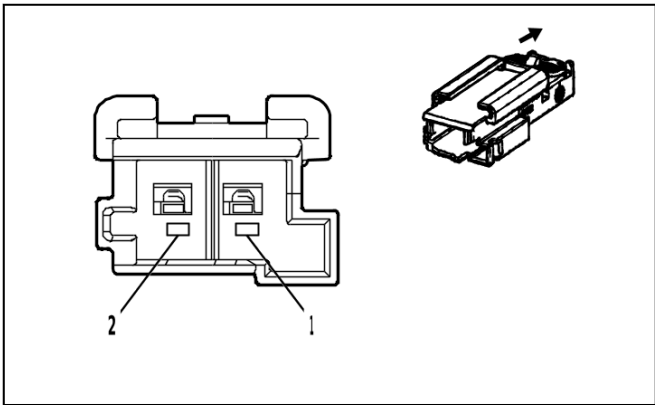
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-65B (L-BU)	No Tool Required

B13 Automatic Transmission Fluid Temperature Sensor (MFC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / GY	(1) 586	(1) Transmission Fluid Temperature Sensor Low Reference	(1) I	(1) MFC
(2) 2	(2) 0.5	(2) BK / GY	(2) 585	(2) Transmission Fluid Temperature Sensor Signal	(2) I	(2) MFC

B14A Automatic Transmission Output Speed Sensor (MHS / MQC)



4672593

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 2340311-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(BU)

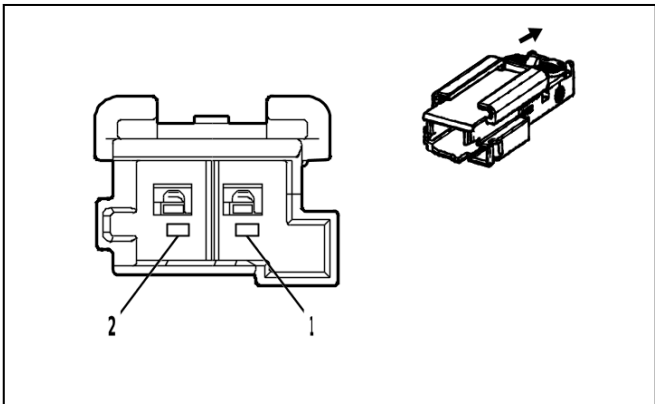
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

B14A Automatic Transmission Output Speed Sensor (MHS / MQC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / OG	(1) 6358	(1) Output Speed Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN	(2) 4170	(2) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(2) I	(2) —

B14A Automatic Transmission Output Speed Sensor (MHT / MI2 / MQB)



4672593

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 2340311-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(BU)

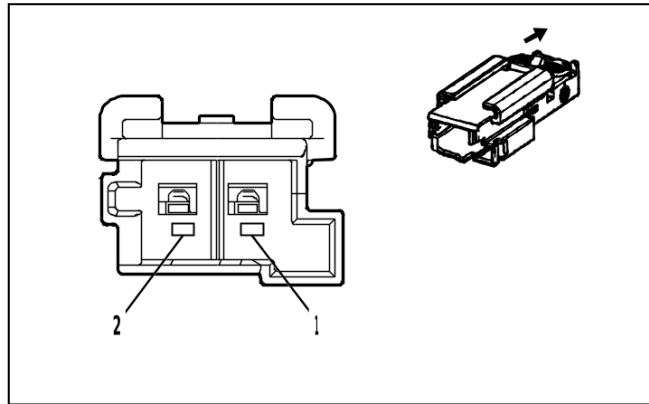
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

B14A Automatic Transmission Output Speed Sensor (MHT / MI2 / MQB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / OG	(1) 6358	(1) Output Speed Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN	(2) 4170	(2) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(2) I	(2) —

B14C Automatic Transmission Input Speed Sensor (MHS / MQC)



4672611

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 2340311-3
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(GN)

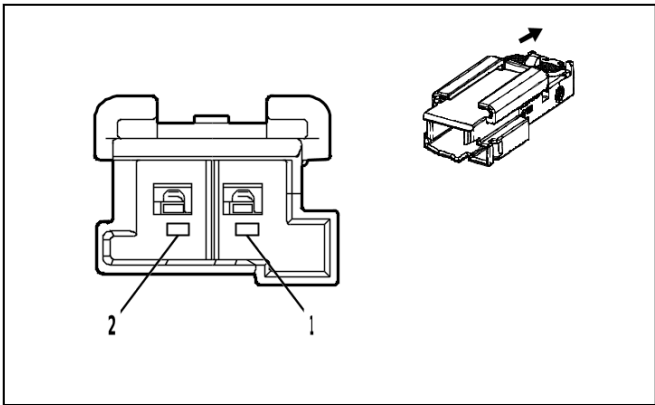
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

B14C Automatic Transmission Input Speed Sensor (MHS / MQC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / VT	(1) 6353	(1) Input Speed Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 4171	(2) Transmission Input Shaft Speed Sensor Circuit 9V Reference	(2) I	(2) —

B14DA Automatic Transmission Intermediate Speed Sensor 1 (MHS / MQC)



4663490

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 2340311-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(NA)

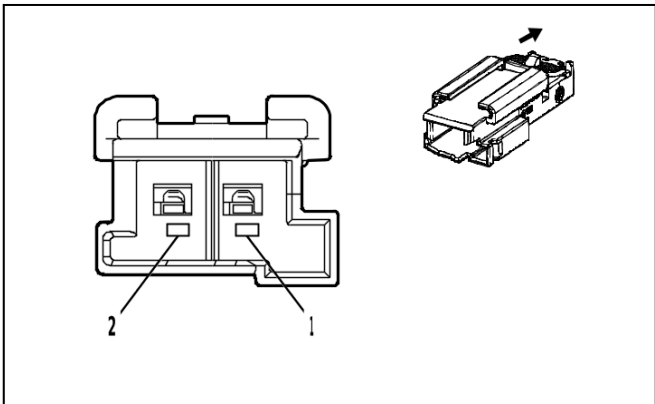
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

B14DA Automatic Transmission Intermediate Speed Sensor 1 (MHS / MQC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / GN	(1) 4510	(1) Transmission Intermediate Speed Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN	(2) 4170	(2) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(2) I	(2) —

B14DA Automatic Transmission Intermediate Speed Sensor 1 (MHT / MI2 / MQB)



4663490

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 2340311-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(NA)

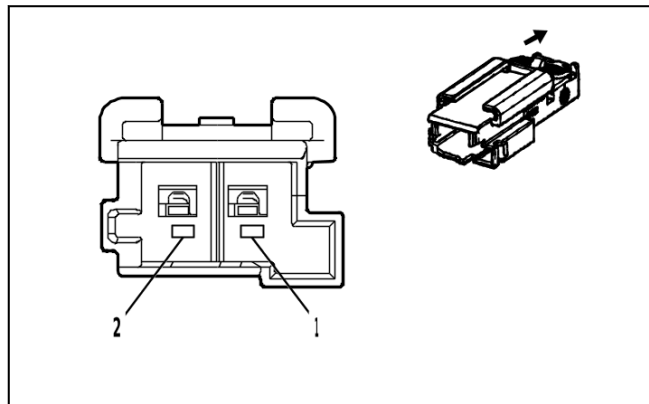
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

B14DA Automatic Transmission Intermediate Speed Sensor 1 (MHT / MI2 / MQB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / GN	(1) 4510	(1) Transmission Intermediate Speed Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN	(2) 4170	(2) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(2) I	(2) —

B14DB Automatic Transmission Intermediate Speed Sensor 2 (MHS / MQC)



4672593

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 2340311-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(BU)

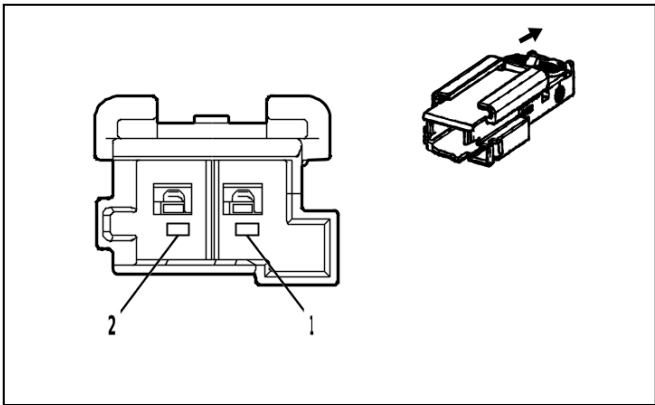
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

B14DB Automatic Transmission Intermediate Speed Sensor 2 (MHS / MQC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / BU	(1) 6254	(1) Transmission Input Speed Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 4171	(2) Transmission Input Shaft Speed Sensor Circuit 9V Reference	(2) I	(2) —

B14DB Automatic Transmission Intermediate Speed Sensor 2 (MHT / MI2 / MQB)



4672593

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 2340311-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(BU)

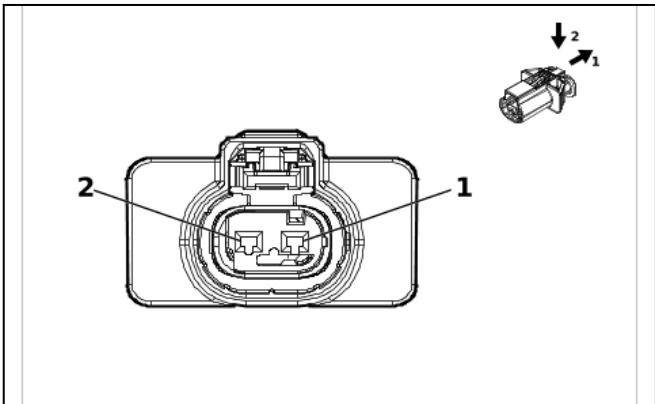
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

B14DB Automatic Transmission Intermediate Speed Sensor 2 (MHT / MI2 / MQB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / BU	(1) 6254	(1) Transmission Input Speed Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 4171	(2) Transmission Input Shaft Speed Sensor Circuit 9V Reference	(2) I	(2) —

B20A Brake Fluid Level Indicator Switch



5877143

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35747313
- Service Connector: 85751409
- Description: 2-Way F 1.2 MLK Series, Sealed(BK)

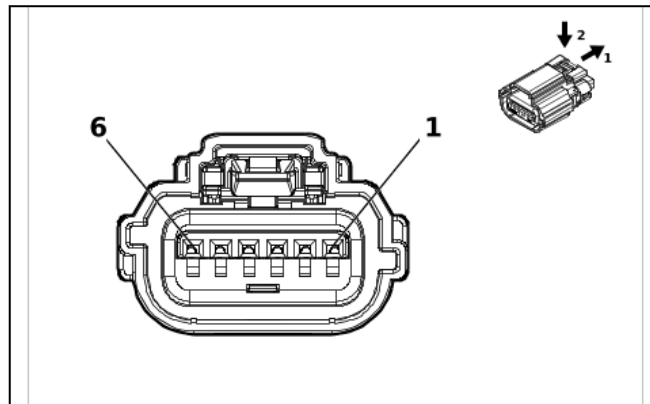
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B20A Brake Fluid Level Indicator Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / GY	(1) 333	(1) Brake Fluid Level Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / WH	(2) 151	(2) Signal Ground	(2) I	(2) —

B22 Brake Pedal Position Sensor



5921818

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35547326
- Service Connector: 86825468
- Description: 6-Way F 0.64 OCS Series, Sealed(NA)

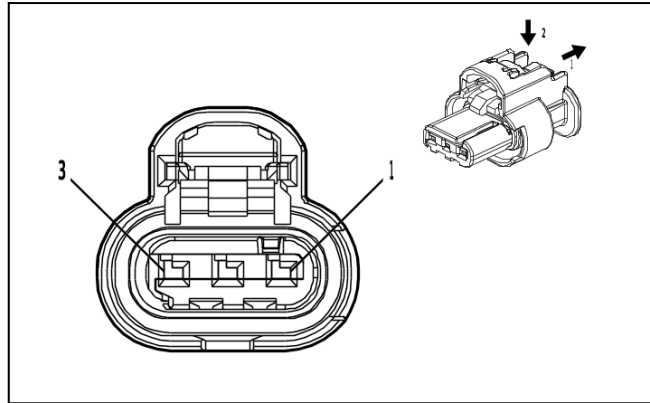
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B22 Brake Pedal Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK / BN	(1) 5360	(1) Brake Apply Sensor Low Reference	(1) I	(1) —
(2) 2	(2) 0.35	(2) WH	(2) 5359	(2) Brake Apply Sensor Control	(2) I	(2) —
(3) 3	(3) 0.35	(3) BU / YE	(3) 5361	(3) Brake Apply Sensor Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) WH / GN	(4) 5380	(4) Brake Position Sensor Signal	(4) I	(4) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(5) 5	(5) 0.35	(5) BK / GY	(5) 626	(5) Engine Control Vehicle Sensors Low Reference 1	(5) I	(5) —
(6) 6	(6) 0.35	(6) WH / RD	(6) 480	(6) Engine Control Vehicle Sensors 5 Volt Reference 1	(6) I	(6) —

B23 Camshaft Position Sensor (LZ0)

4581126

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

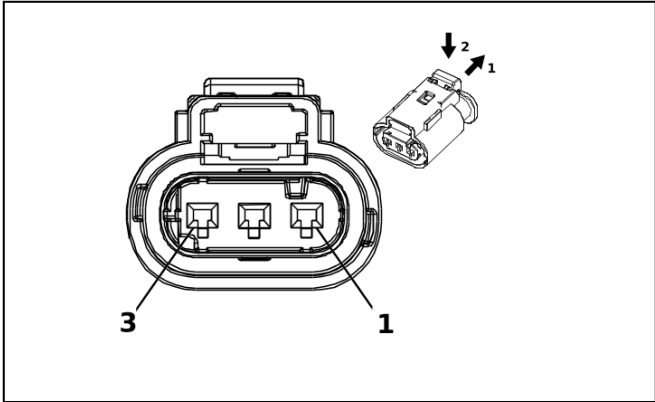
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B23 Camshaft Position Sensor (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / YE	(1) 5297	(1) Exhaust Camshaft Position Sensor 1 Voltage Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GY	(2) 5296	(2) Exhaust Camshaft Position Sensor Low Reference 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) VT / BK	(3) 5273	(3) Exhaust Camshaft Position Sensor 1	(3) I	(3) —

B23 Camshaft Position Sensor (L84 / L87)



2717069

Connector Part Information

- Harness Type: Camshaft Position Sensor Wire
- OEM Connector: 10010341
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

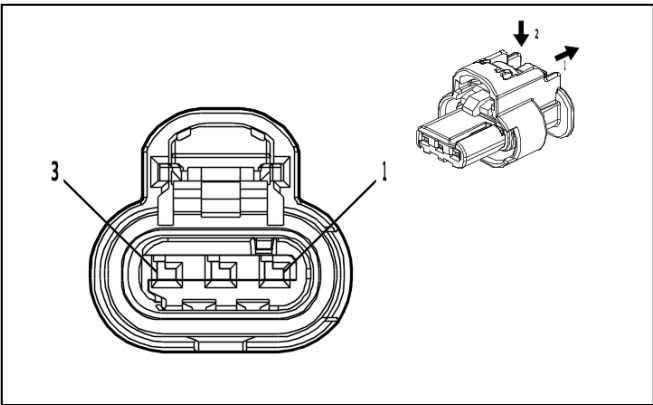
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B23 Camshaft Position Sensor (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / BU	(1) 5300	(1) Intake Camshaft Position Sensor 1 Voltage Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GN	(2) 5301	(2) Intake Camshaft Position Sensor Low Reference 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE / VT	(3) 5275	(3) Intake Camshaft Position Sensor 1	(3) I	(3) —

B23E Camshaft Position Sensor - Exhaust (L3B)



4581126

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

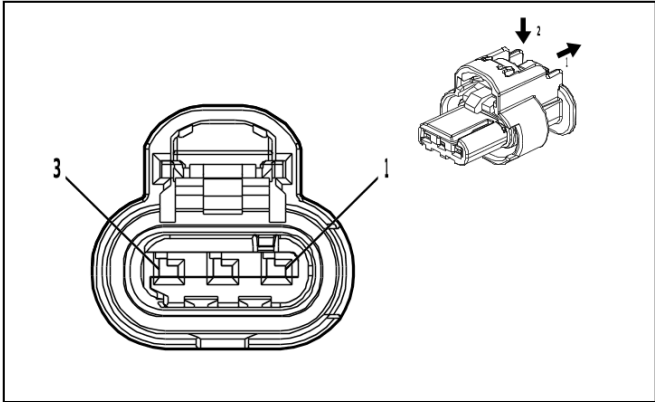
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B23E Camshaft Position Sensor - Exhaust (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / YE	(1) 5297	(1) Exhaust Camshaft Position Sensor 1 Voltage Reference	(1) I	(1) L3B
(2) 2	(2) 0.5	(2) BK / GY	(2) 5296	(2) Exhaust Camshaft Position Sensor Low Reference 1	(2) I	(2) L3B
(3) 3	(3) 0.5	(3) VT / BK	(3) 5273	(3) Exhaust Camshaft Position Sensor 1	(3) I	(3) L3B

B23F Camshaft Position Sensor - Intake (L3B)



4581126

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

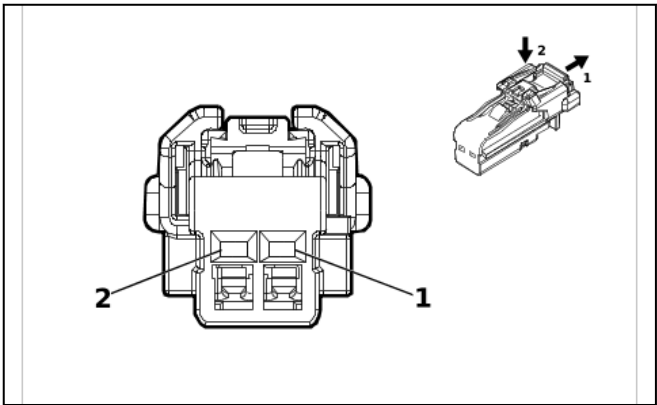
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B23F Camshaft Position Sensor - Intake (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / BU	(1) 5300	(1) Intake Camshaft Position Sensor 1 Voltage Reference	(1) I	(1) L3B
(2) 2	(2) 0.5	(2) BK / GN	(2) 5301	(2) Intake Camshaft Position Sensor Low Reference 1	(2) I	(2) L3B
(3) 3	(3) 0.5	(3) YE / VT	(3) 5275	(3) Intake Camshaft Position Sensor 1	(3) I	(3) L3B

B24LF Mobile Telephone Microphone - Left Front



4115691

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 6098-8988
- Service Connector: 87816612
- Description: 2-Way F 1.2 MCON Series(BK)

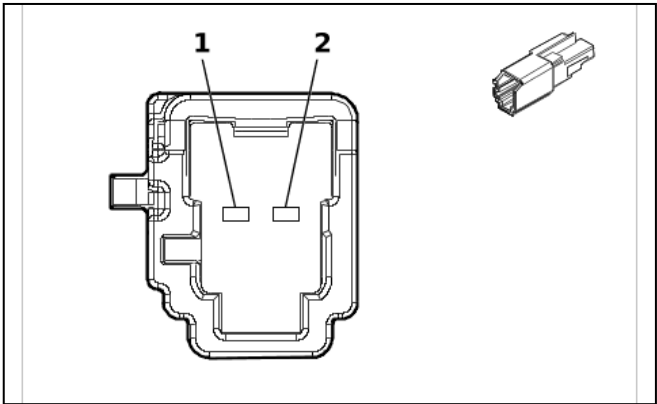
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B24LF Mobile Telephone Microphone - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK / BN	(1) 654	(1) Cellular Telephone Microphone Low Reference	(1) I	(1) —
(2) 2	(2) 0.35	(2) BU	(2) 655	(2) Cellular Telephone Microphone Signal	(2) I	(2) —

B24RF Mobile Telephone Microphone - Right Front



6529127

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 6099-0611
- Service Connector: 85725004
- Description: 2-Way M 1.2 MBS Series(GY)

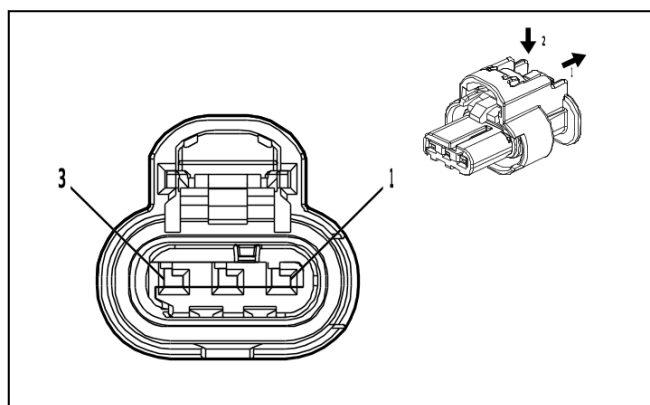
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

B24RF Mobile Telephone Microphone - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BU / BK	(1) 7044	(1) Microphone [-] Signal	(1) I	(1) —
(2) 2	(2) 0.35	(2) VT / YE	(2) 7043	(2) Microphone [+] Signal	(2) I	(2) —

B26 Crankshaft Position Sensor (L3B)



4778903

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-2
- Service Connector: 86792095
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

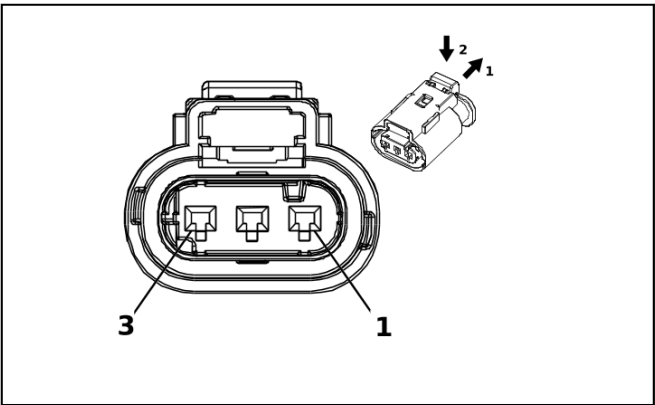
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B26 Crankshaft Position Sensor (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BU	(1) 6270	(1) Crankshaft Position Sensor Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / VT	(2) 6272	(2) Crankshaft Position Sensor Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN	(3) 6271	(3) Crankshaft Position Sensor Signal	(3) I	(3) —

B26 Crankshaft Position Sensor (L84 / L87)



2717069

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010341
- Service Connector: 84601390
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

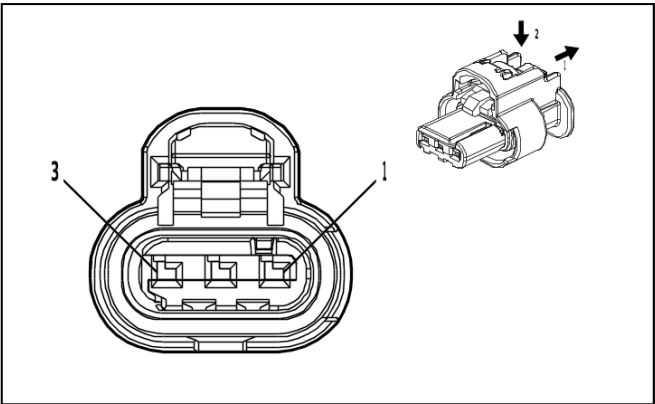
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B26 Crankshaft Position Sensor (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN	(1) 6271	(1) Crankshaft Position Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / VT	(2) 6272	(2) Crankshaft Position Sensor Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) VT / BU	(3) 6270	(3) Crankshaft Position Sensor Voltage	(3) I	(3) —

B26 Crankshaft Position Sensor (LZ0)



4581126

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

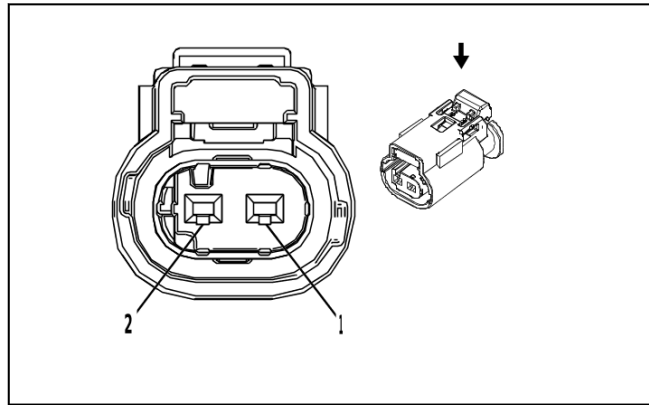
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B26 Crankshaft Position Sensor (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BU	(1) 6270	(1) Crankshaft Position Sensor Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / VT	(2) 6272	(2) Crankshaft Position Sensor Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN	(3) 6271	(3) Crankshaft Position Sensor Signal	(3) I	(3) —

B34 Engine Coolant Temperature Sensor



2830969

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010339
- Service Connector: 13587321
- Description: 2-Way F 1.2 Multilock Series, Sealed(D-GY)

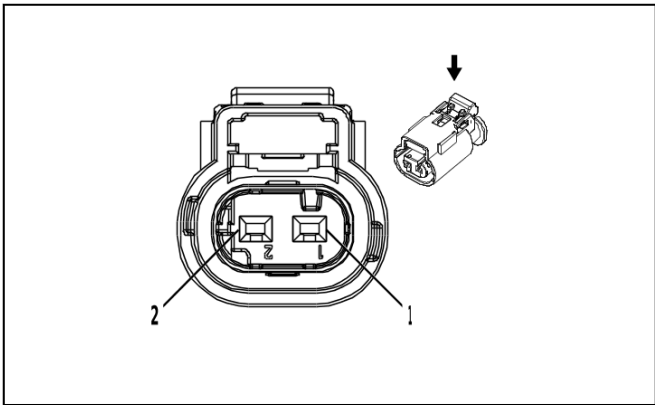
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B34 Engine Coolant Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / BU	(1) 410	(1) Engine Coolant Temperature Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 626	(2) Engine Control Vehicle Sensors Low Reference 1	(2) I	(2) —

B34A Engine Coolant Temperature Sensor 1



2717066

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010337
- Service Connector: 13587326
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

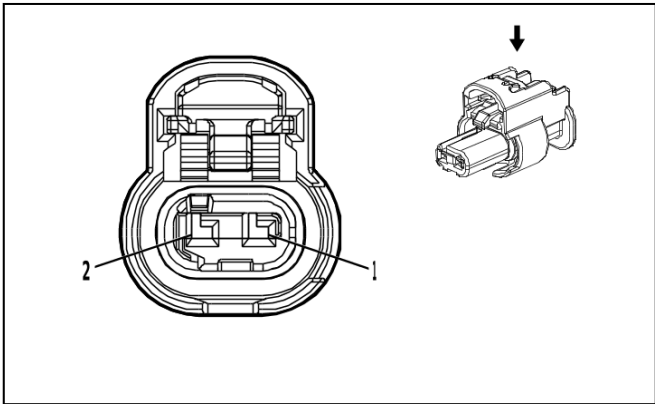
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B34A Engine Coolant Temperature Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / BU	(1) 2408	(1) Engine Inlet Coolant Temperature Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) Engine Control Sensors Low Reference 1	(2) I	(2) —

B34B Engine Coolant Temperature Sensor 2



4690744

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296694-3
- Service Connector: 19366871
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

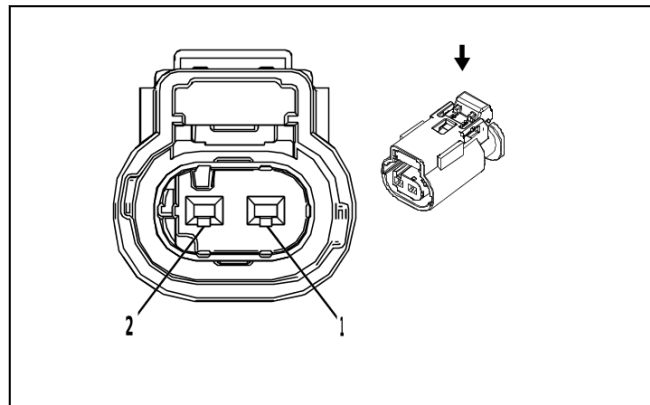
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B34B Engine Coolant Temperature Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT	(1) 2988	(1) Engine Outlet Coolant Temperature Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GY	(2) 626	(2) Engine Control Vehicle Sensors Low Reference 1	(2) I	(2) —

B34E Engine Coolant Temperature Sensor 5



2830969

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010339
- Service Connector: 13587321
- Description: 2-Way F 1.2 Multilock Series, Sealed(D-GY)

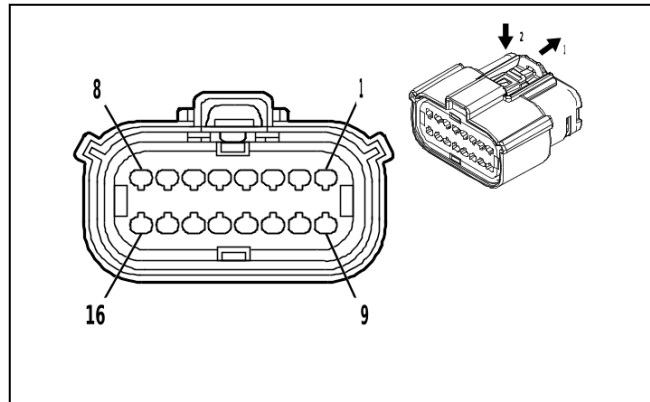
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B34E Engine Coolant Temperature Sensor 5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / YE	(1) 8938	(1) Engine Integrated Exhaust Manifold Temperature Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) Engine Control Sensors Low Reference 1	(2) I	(2) —

B34F Engine Coolant Temperature Sensor 6



4574233

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 33472-1866
- Service Connector: 13584788
- Description: 16-Way F 1.5 MX Series, Sealed(BK)

Terminal Part Information

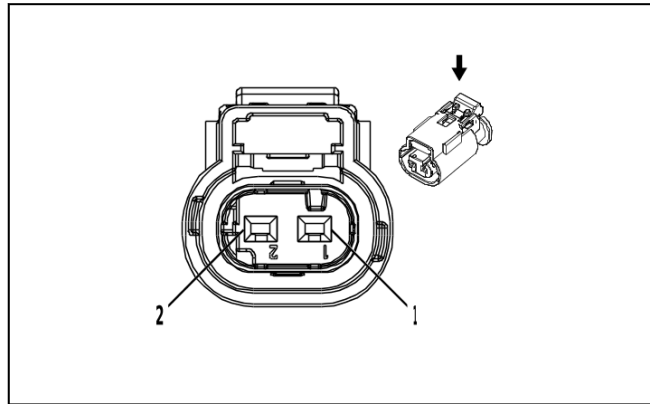
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368973	J-35616-2A (GY)	J-38125-217
II	Not required	No Tool Required	No Tool Required

B34F Engine Coolant Temperature Sensor 6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / VT	(1) 2404	(1) Engine Block Coolant Temperature Signal	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) Engine Control Sensors Low Reference 1	(2) II	(2) —
(3) 3	(3) 0.5	(3) WH / RD	(3) 480	(3) Engine Control Vehicle Sensors 5 Volt Reference 1	(3) I	(3) —
(4) 4	(4) 0.75	(4) GY / BU	(4) 4804	(4) Direct Fuel Injector High Voltage Control Cylinder 4	(4) I	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.75	(6) GN	(6) 4803	(6) Direct Fuel Injector High Voltage Control Cylinder 3	(6) I	(6) —
(7) 7	(7) 0.75	(7) BU	(7) 4802	(7) Direct Fuel Injector High Voltage Control Cylinder 2	(7) I	(7) —
(8) 8	(8) 0.5	(8) WH / GY	(8) 1876	(8) Knock Sensor 2 Signal	(8) I	(8) —
(9) 9	(9) 0.5	(9) BK / YE	(9) 1716	(9) Knock Sensor Low Reference 1	(9) I	(9) —
(10) 10	(10) 0.75	(10) BN / WH	(10) 4901	(10) Direct Fuel Injector High Voltage Supply Cylinder 1	(10) I	(10) —
(11) 11	(11) 0.5	(11) BU / WH	(11) 10786	(11) Fuel Rail Pressure Sensor SENT 1 Signal	(11) I	(11) —
(12) 12	(12) 0.5	(12) BK / GN	(12) 580	(12) Engine Control Sensors Low Reference 2	(12) I	(12) —
(13) 13	(13) 0.75	(13) BU / WH	(13) 4904	(13) Direct Fuel Injector High Voltage Supply Cylinder 4	(13) I	(13) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(14) 14	(14) 0.7 5	(14) GN / GY	(14) 4903	(14) Direct Fuel Injector High Voltage Supply Cylinder 3	(14) I	(14) —
(15) 15	(15) 0.7 5	(15) BU / GY	(15) 4902	(15) Direct Fuel Injector High Voltage Supply Cylinder 2	(15) I	(15) —
(16) 16	(16) 0.5	(16) BK / GY	(16) 2303	(16) Knock Sensor Low Reference 2	(16) I	(16) —

B34K Charge Air Cooler Coolant Temperature Sensor - Inlet



2717066

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010337
- Service Connector: 13587326
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

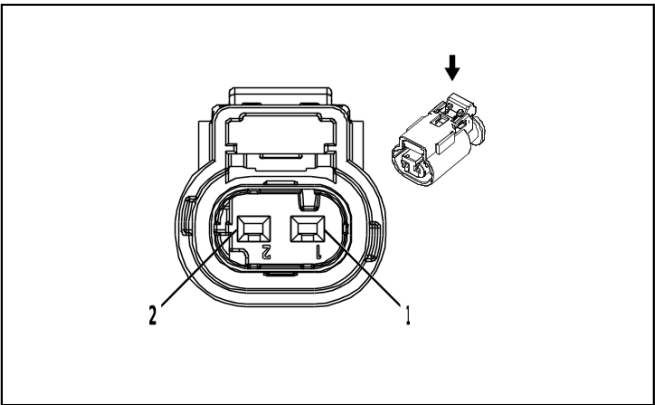
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B34K Charge Air Cooler Coolant Temperature Sensor - Inlet

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / BK	(1) 1422	(1) Engine Water Charge Air Coolant Temperature Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GY	(2) 626	(2) Engine Control Vehicle Sensors Low Reference 1	(2) I	(2) —

B35 Engine Oil Level Indicator Switch



2717066

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010337
- Service Connector: 13587326
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

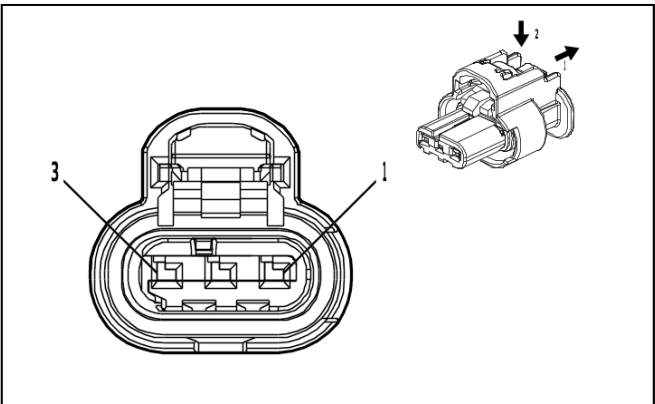
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B35 Engine Oil Level Indicator Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / GN	(1) 1174	(1) Oil Level Switch Signal	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK / WH	(2) 251	(2) Signal Ground	(2) I	(2) —

B36 Engine Oil Temperature Sensor



4994602

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-3
- Service Connector: 19371199
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

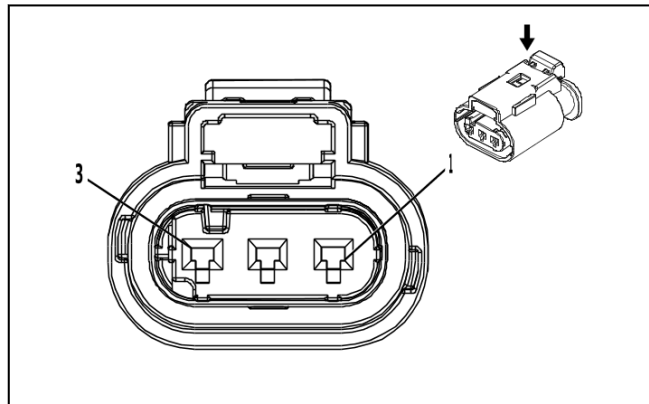
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B36 Engine Oil Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) BK / YE (1) BK / GY	(1) 548 (1) 626	(1) Engine Control Sensors Low Reference 1 (1) Engine Control Vehicle Sensors Low Reference 1	(1) I (1) I	(1) L3B (1) LZ0
(2) 2	(2) 0.5	(2) BN / BU	(2) 357	(2) Oil Temperature Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) VT	(3) 7485	(3) Engine Oil Temperature Sensor 2 Signal	(3) I	(3) —

B37B Engine Oil Pressure Sensor (L3B)



3240107

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010344
- Service Connector: 19301717
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

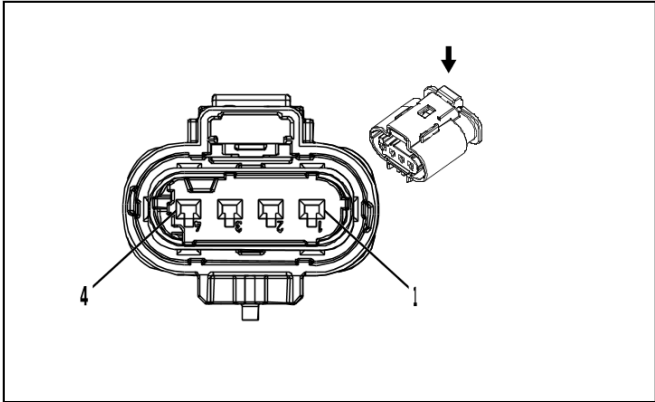
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B37B Engine Oil Pressure Sensor (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / BN	(1) 331	(1) Oil Pressure Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) Engine Control Sensors Low Reference 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / RD	(3) 460	(3) Engine Control Sensors 5 Volt Reference 1	(3) I	(3) —

B37B Engine Oil Pressure Sensor (L84 / L87)



2717079

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010346
- Service Connector: 13587299
- Description: 4-Way F 1.2 Multilock Series, Sealed(BK)

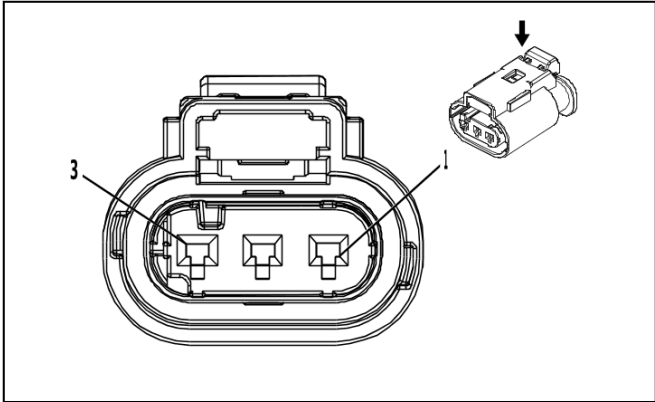
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B37B Engine Oil Pressure Sensor (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / GN	(1) 580	(1) Engine Control Sensors Low Reference 2	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / BN	(2) 331	(2) Oil Pressure Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / RD	(3) 460	(3) Engine Control Sensors 5 Volt Reference 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) BN / BU	(4) 357	(4) Oil Temperature Sensor Signal	(4) I	(4) —

B37B Engine Oil Pressure Sensor (LZ0)



3240107

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010344
- Service Connector: 19301717
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

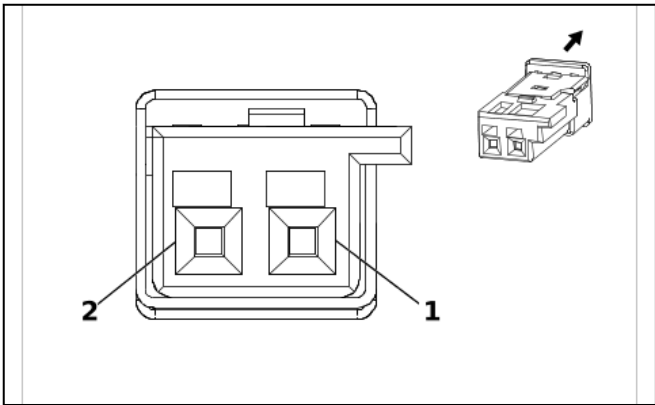
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B37B Engine Oil Pressure Sensor (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / BN	(1) 331	(1) Oil Pressure Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) Engine Control Sensors Low Reference 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / RD	(3) 460	(3) Engine Control Sensors 5 Volt Reference 1	(3) I	(3) —

B39 Air Conditioning Evaporator Air Temperature Sensor



2780265

Connector Part Information

- Harness Type: Heater Wiring Harness
- OEM Connector: 2-1718333-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 Micro-Quadlock Series(NA)

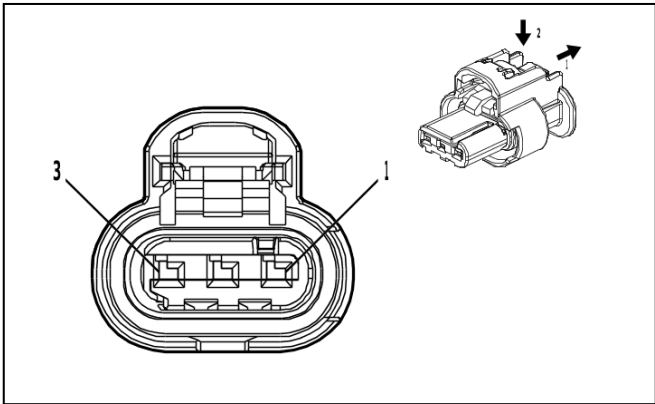
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

B39 Air Conditioning Evaporator Air Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BN	(1) 6137	(1) Air Conditioning Evaporator Temperature Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.35	(2) BK / YE	(2) 407	(2) Sensor Low Reference	(2) I	(2) —

B47 Fuel Pressure Sensor



4581126

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

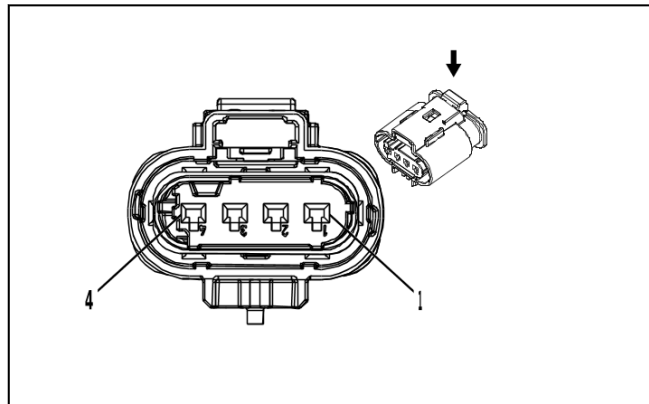
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B47 Fuel Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / RD	(1) 7445	(1) Fuel Line Pressure Sensor 5V Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 7447	(2) Fuel Pressure Sensor Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / WH	(3) 7446	(3) Fuel Pressure Sensor Signal	(3) I	(3) —

B47B Fuel Rail Pressure Sensor (LZ0)



2717079

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010346
- Service Connector: 13587299
- Description: 4-Way F 1.2 Multilock Series, Sealed(BK)

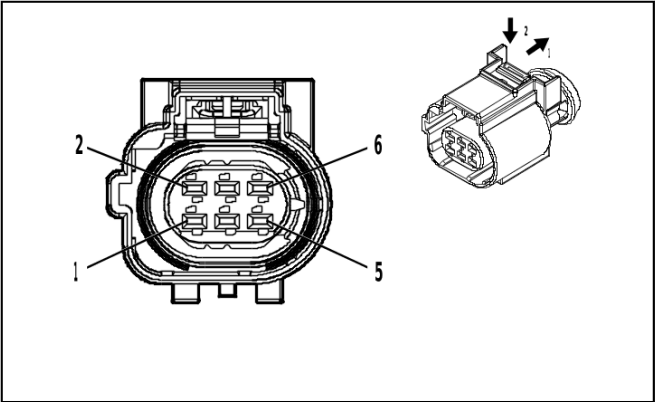
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B47B Fuel Rail Pressure Sensor (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / RD	(1) 2917	(1) Fuel Rail Pressure Sensor 5V Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / YE	(2) 2161	(2) Fuel Rail Pressure Sensor 2 Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / GN	(3) 2919	(3) Fuel Rail Pressure Sensor Low Reference	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU / WH	(4) 2918	(4) Fuel Rail Pressure Sensor Signal	(4) I	(4) —

B52A Heated Oxygen Sensor 1 (L3B)



5086832

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2-2309220-8
- Service Connector: 84613131
- Description: 6-Way F 1.5 MCP Series, Sealed(GY)

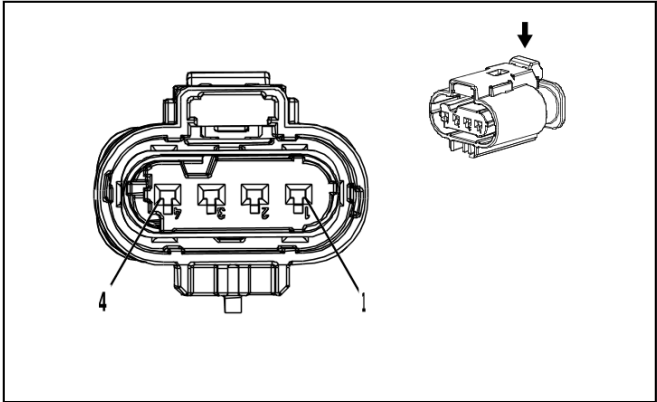
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B52A Heated Oxygen Sensor 1 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / WH	(1) 6933	(1) HO2S Pump Current Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN	(2) 6934	(2) HO2S Ground	(2) I	(2) —
(3) 3	(3) 0.5	(3) GY / WH	(3) 3113	(3) HO2S Heater Low Control Bank 1 Sensor 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) VT / BU	(4) 5293	(4) Powertrain Main Relay Fused Supply Voltage	(4) I	(4) —
(5) 5	(5) 0.5	(5) GN	(5) 6935	(5) HO2S Pump Current Trim Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) YE / GY	(6) 6936	(6) HO2S Signal	(6) I	(6) —

B52B Heated Oxygen Sensor 2 (L3B)



4036496

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10021265
- Service Connector: 19330904
- Description: 4-Way F 1.2 Multilock Series, Sealed(BK)

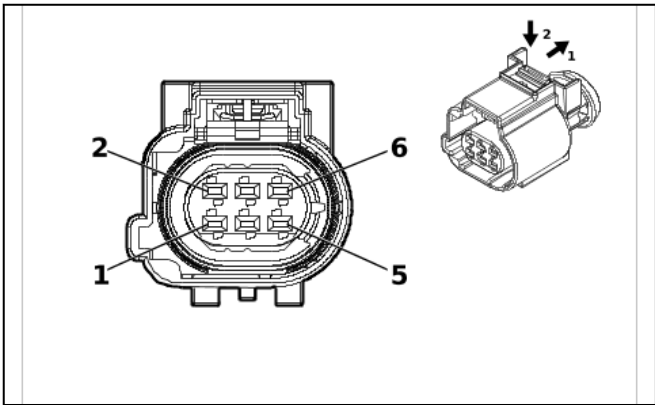
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B52B Heated Oxygen Sensor 2 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / WH	(1) 3122	(1) HO2S Heater Low Control Bank 1 Sensor 2	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / BU	(2) 5294	(2) Powertrain Main Relay Fused Supply Voltage 5	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH / YE	(3) 3121	(3) HO2S Low Signal Bank 1 Sensor 2	(3) I	(3) —
(4) 4	(4) 0.5	(4) VT / BU	(4) 3120	(4) HO2S High Signal Bank 1 Sensor 2	(4) I	(4) —

B52C Heated Oxygen Sensor - Bank 1 Sensor 1 ((L84 / L87) & FJW)



6312186

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2-2309220-2
- Service Connector: 85686357
- Description: 6-Way F 1.5 MCP Series, Sealed(BN)

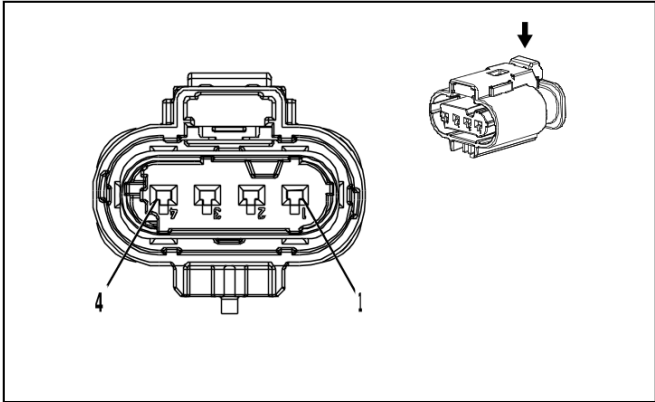
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B52C Heated Oxygen Sensor - Bank 1 Sensor 1 ((L84 / L87) & FJW)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / WH	(1) 6933	(1) HO2S Pump Current Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN	(2) 6934	(2) HO2S Ground	(2) I	(2) —
(3) 3	(3) 0.5	(3) GY / WH	(3) 3113	(3) HO2S Heater Low Control Bank 1 Sensor 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) VT / BU	(4) 5293	(4) Powertrain Main Relay Fused Supply Voltage	(4) I	(4) —
(5) 5	(5) 0.5	(5) GN	(5) 6935	(5) HO2S Pump Current Trim Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) YE / GY	(6) 6936	(6) HO2S Signal	(6) I	(6) —

B52C Heated Oxygen Sensor - Bank 1 Sensor 1 ((L87 / L84) & (FHS / FHR))



4381050

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10021267
- Service Connector: 19354075
- Description: 4-Way F 1.2 Multilock Series, Sealed(GY)

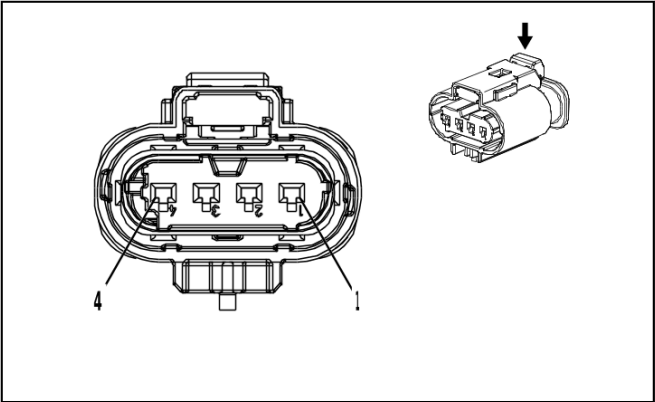
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B52C Heated Oxygen Sensor - Bank 1 Sensor 1 ((L87 / L84) & (FHS / FHR))

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / WH	(1) 3113	(1) HO2S Heater Low Control Bank 1 Sensor 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / BU	(2) 5293	(2) Powertrain Main Relay Fused Supply Voltage	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH / BK	(3) 3111	(3) HO2S Low Signal Bank 1 Sensor 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) VT / GY	(4) 3110	(4) HO2S High Signal Bank 1 Sensor 1	(4) I	(4) —

B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (L84 / L87)



4036370

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10021266
- Service Connector: 19330920
- Description: 4-Way F 1.2 Multilock Series, Sealed(GY)

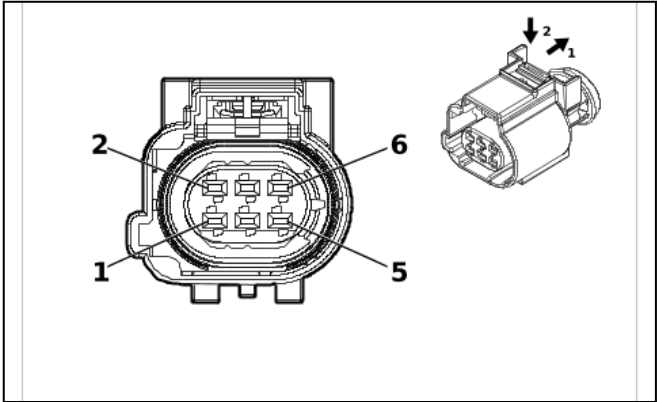
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / WH	(1) 3122	(1) HO2S Heater Low Control Bank 1 Sensor 2	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / BU	(2) 5294	(2) Powertrain Main Relay Fused Supply Voltage 5	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH / YE	(3) 3121	(3) HO2S Low Signal Bank 1 Sensor 2	(3) I	(3) —
(4) 4	(4) 0.5	(4) VT / BU	(4) 3120	(4) HO2S High Signal Bank 1 Sensor 2	(4) I	(4) —

B52E Heated Oxygen Sensor - Bank 2 Sensor 1 ((L84 / L87) & FJW)



6312186

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2-2309220-2
- Service Connector: 85686357
- Description: 6-Way F 1.5 MCP Series, Sealed(BN)

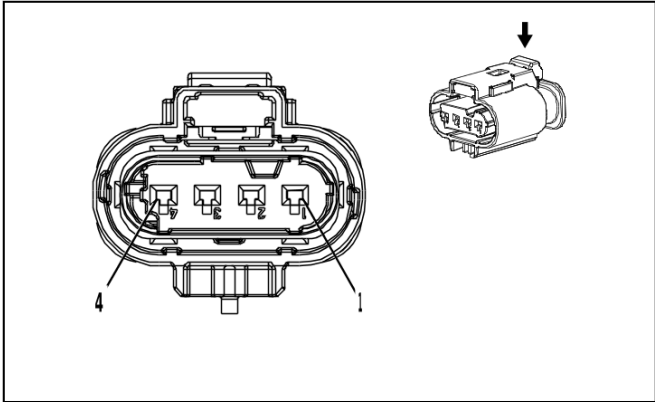
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B52E Heated Oxygen Sensor - Bank 2 Sensor 1 ((L84 / L87) & FJW)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / WH	(1) 2570	(1) Heated Oxygen Sensor 2 Pump Current Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH	(2) 2571	(2) Heated Oxygen Sensor 2 Common Bank 2 Sensor 1 Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / YE	(3) 3212	(3) HO2S Heater Low Control Bank 2 Sensor 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) VT / BU	(4) 5294	(4) Powertrain Main Relay Fused Supply Voltage 5	(4) I	(4) —
(5) 5	(5) 0.5	(5) BU	(5) 2572	(5) Heated Oxygen Sensor 2 Current Adjust Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) BN / GY	(6) 2573	(6) Heated Oxygen Sensor 2 Collector Signal	(6) I	(6) —

B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (L84 & (FHR / FHS))



4381050

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10021267
- Service Connector: 19354075
- Description: 4-Way F 1.2 Multilock Series, Sealed(GY)

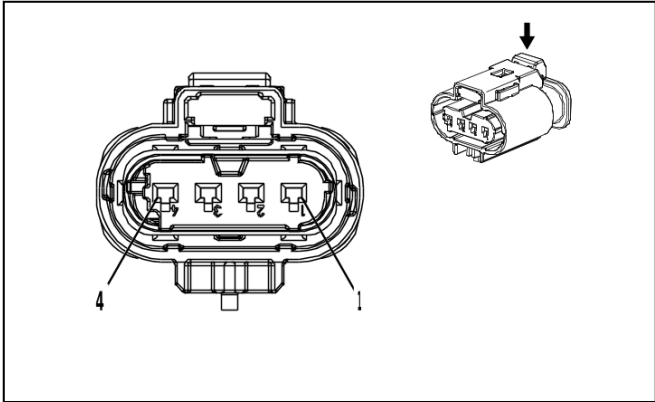
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (L84 & (FHR / FHS))

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / YE	(1) 3212	(1) HO2S Heater Low Control Bank 2 Sensor 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / BU	(2) 5293	(2) Powertrain Main Relay Fused Supply Voltage	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE / WH	(3) 3211	(3) HO2S Low Signal Bank 2 Sensor 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) VT / WH	(4) 3210	(4) HO2S High Signal Bank 2 Sensor 1	(4) I	(4) —

B52F Heated Oxygen Sensor - Bank 2 Sensor 2 ((L87 / L84) & (FHS / FHR))



4036370

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10021266
- Service Connector: 19330920
- Description: 4-Way F 1.2 Multilock Series, Sealed(GY)

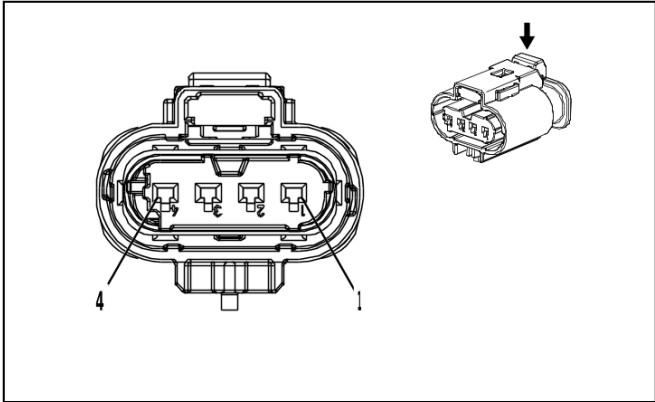
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B52F Heated Oxygen Sensor - Bank 2 Sensor 2 ((L87 / L84) & (FHS / FHR))

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / BN	(1) 3223	(1) HO2S Heater Low Control Bank 2 Sensor 2	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / BU	(2) 5294	(2) Powertrain Main Relay Fused Supply Voltage 5	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE / BU	(3) 3221	(3) HO2S Low Signal Bank 2 Sensor 2	(3) I	(3) —
(4) 4	(4) 0.5	(4) VT / GN	(4) 3220	(4) HO2S High Signal Bank 2 Sensor 2	(4) I	(4) —

B52F Heated Oxygen Sensor - Bank 2 Sensor 2 ((L84 / L87) & FJW)



4036370

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10021266
- Service Connector: 19330920
- Description: 4-Way F 1.2 Multilock Series, Sealed(GY)

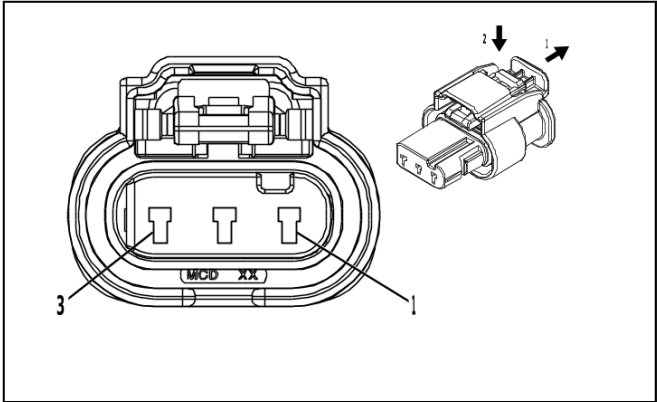
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B52F Heated Oxygen Sensor - Bank 2 Sensor 2 ((L84 / L87) & FJW)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / BN	(1) 3223	(1) HO2S Heater Low Control Bank 2 Sensor 2	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / BU	(2) 5294	(2) Powertrain Main Relay Fused Supply Voltage 5	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE / BU	(3) 3221	(3) HO2S Low Signal Bank 2 Sensor 2	(3) I	(3) —
(4) 4	(4) 0.5	(4) VT / GN	(4) 3220	(4) HO2S High Signal Bank 2 Sensor 2	(4) I	(4) —

B55 Engine Compartment Cover Switch



4421568

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 34900-3120
- Service Connector: 19368220
- Description: 3-Way F 1.2 MCON-LL Series, Sealed(BK)

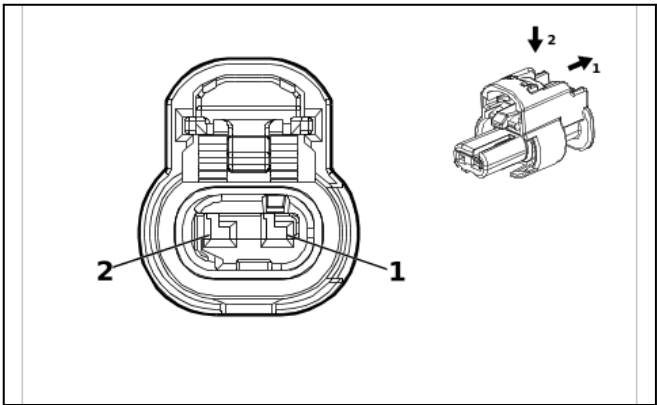
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B55 Engine Compartment Cover Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE	(1) 4063	(1) Hood Status A Signal	(1) I	(1) —
(2) 2	(2) 0.35	(2) BN / GN	(2) 4064	(2) Hood Status B Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / WH	(3) 151	(3) Signal Ground	(3) I	(3) —

B58L Airbag Front End Discriminating Sensor - Left



4649903

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 1-2296694-1
- Service Connector: 85761014
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

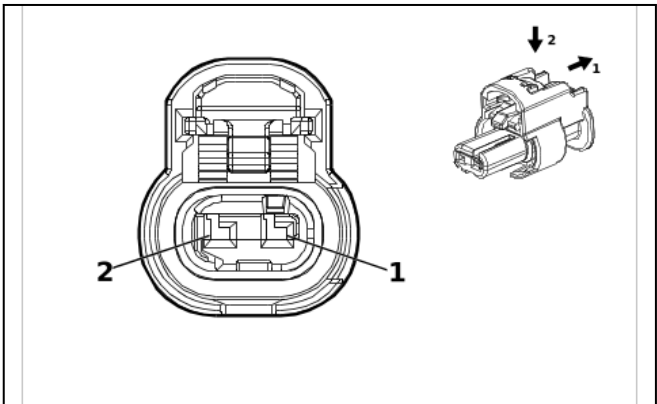
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B58L Airbag Front End Discriminating Sensor - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / YE	(1) 354	(1) Left Front Impact Discriminating Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / OG	(2) 5045	(2) Left Front Impact Discriminating Sensor Low Reference	(2) I	(2) —

B58R Airbag Front End Discriminating Sensor - Right



4649903

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 1-2296694-1
- Service Connector: 85761014
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

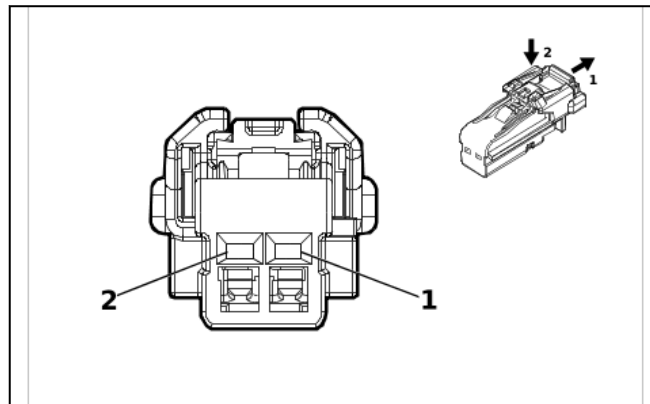
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B58R Airbag Front End Discriminating Sensor - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / GN	(1) 1409	(1) Right Front Impact Discriminating Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / OG	(2) 5600	(2) Right Front Impact Discriminating Sensor Low Reference	(2) I	(2) —

B61P Seat Belt Tension Sensor - Passenger



4115691

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 6098-8988
- Service Connector: 87816612
- Description: 2-Way F 1.2 MCON Series(BK)

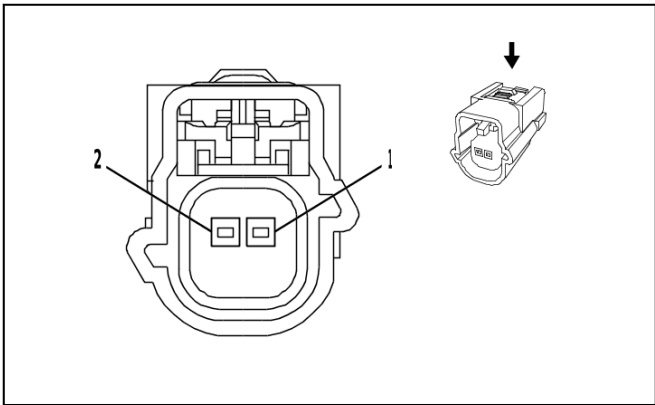
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B61P Seat Belt Tension Sensor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GY / OG	(1) 3946	(1) Passenger Automatic Locking Retractor Switch Low Reference	(1) I	(1) —
(2) 2	(2) 0.35	(2) OG / BN	(2) 3947	(2) Passenger Automatic Locking Retractor Switch Signal	(2) I	(2) —

B63LF Airbag Side Impact Sensor - Left Front Door



2179777

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Driver
- OEM Connector: 13610095
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 Series, Sealed(GY)

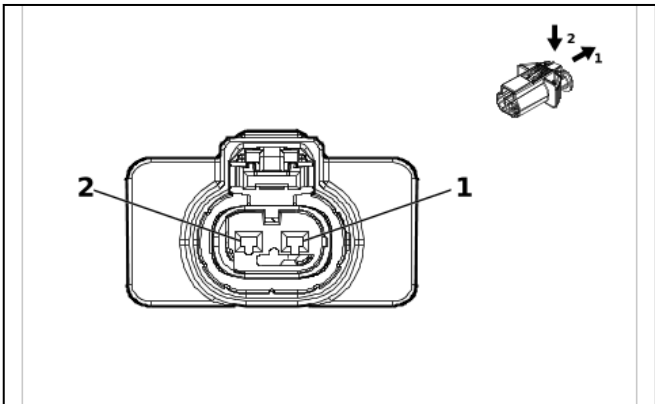
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B63LF Airbag Side Impact Sensor - Left Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / GN	(1) 2132	(1) Left Front Side Impact Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / OG	(2) 6628	(2) Left Front Side Impact Sensor Low Reference	(2) I	(2) —

B63LR Airbag Side Impact Rear Sensor - Left Door



5877154

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Left Rear
- OEM Connector: 13559489
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MLK Series, Sealed(BK)

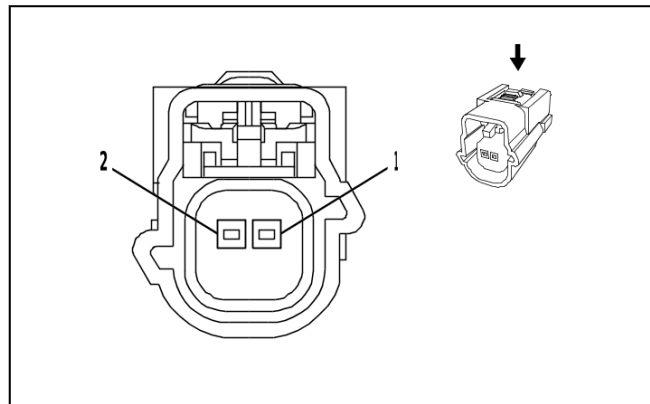
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B63LR Airbag Side Impact Sensor - Left Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / BU	(1) 6622	(1) Left Rear Side Impact Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / OG	(2) 6623	(2) Left Rear Side Impact Sensor Low Reference	(2) I	(2) —

B63RF Airbag Side Impact Sensor - Right Front Door



2179777

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Passenger
- OEM Connector: 13610095
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 Series, Sealed(GY)

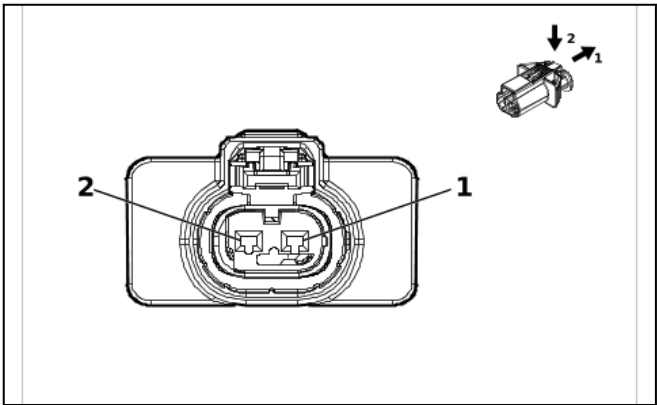
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B63RF Airbag Side Impact Sensor - Right Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / OG	(1) 2134	(1) Right Front Side Impact Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / OG	(2) 6629	(2) Right Front Side Impact Sensor Low Reference	(2) I	(2) —

B63RR Airbag Side Impact Rear Sensor - Right Door



5877154

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Right Rear
- OEM Connector: 13559489
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MLK Series, Sealed(BK)

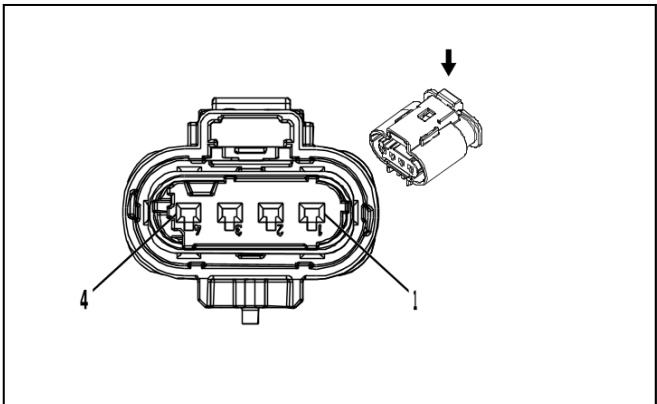
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B63RR Airbag Side Impact Rear Sensor - Right Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / WH	(1) 6626	(1) Right Rear Side Impact Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / OG	(2) 6627	(2) Right Rear Side Impact Sensor Low Reference	(2) I	(2) —

B65 Manifold Absolute Pressure and Intake Air Temperature Sensor (L3B)



2717079

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010346
- Service Connector: 13587299
- Description: 4-Way F 1.2 Multilock Series, Sealed(BK)

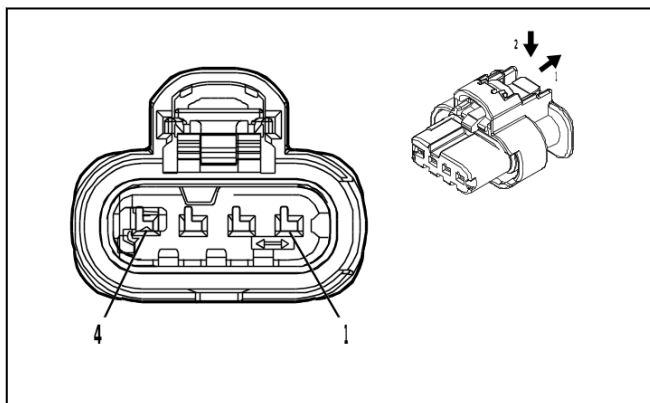
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B65 Manifold Absolute Pressure and Intake Air Temperature Sensor (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / BU	(1) 7329	(1) Pre-Throttle Air Temperature Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) GY / RD	(2) 2704	(2) Manifold Absolute Pressure Sensor 5V Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / GN	(3) 469	(3) Manifold Absolute Pressure Sensor Low Reference	(3) I	(3) —
(4) 4	(4) 0.5	(4) GN / WH	(4) 432	(4) Manifold Absolute Pressure Sensor Signal	(4) I	(4) —

B65 Manifold Absolute Pressure and Intake Air Temperature Sensor (LZ0)



4934614

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296696-2
- Service Connector: 85519071
- Description: 4-Way F 1.2 MCON-CB Series, Sealed(BK)

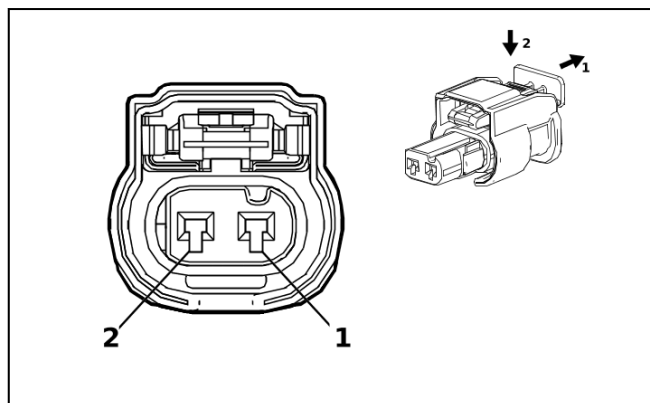
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B65 Manifold Absolute Pressure and Intake Air Temperature Sensor (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / BU	(1) 7329	(1) Pre-Throttle Air Temperature Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH / RD	(2) 480	(2) Engine Control Vehicle Sensors 5 Volt Reference 1	(2) I	(2) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(3) 3	(3) 0.5	(3) BK / GN	(3) 580	(3) Engine Control Sensors Low Reference 2	(3) I	(3) —
(4) 4	(4) 0.5	(4) GN / WH	(4) 432	(4) Manifold Absolute Pressure Sensor Signal	(4) I	(4) —

B68A Knock Sensor 1 (L3B)

3960139

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 34900-2120
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

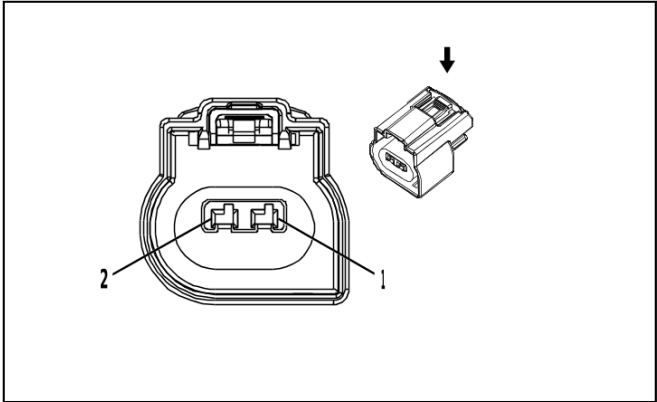
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B68A Knock Sensor 1 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 496	(1) Knock Sensor 1 Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / WH	(2) 1716	(2) Knock Sensor Low Reference 1	(2) I	(2) —

B68A Knock Sensor 1 (L84 / L87)



2717073

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34752-0204
- Service Connector: 19301207
- Description: 2-Way F 1.5 MX Series, Sealed(BK)

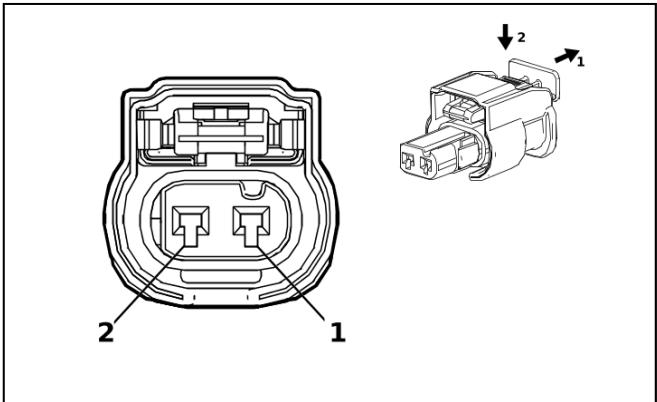
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B68A Knock Sensor 1 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) VT / GY	(1) 496	(1) Knock Sensor 1 Signal	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK / YE	(2) 1716	(2) Knock Sensor Low Reference 1	(2) I	(2) —

B68B Knock Sensor 2 (L3B)



3960139

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 34900-2120
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

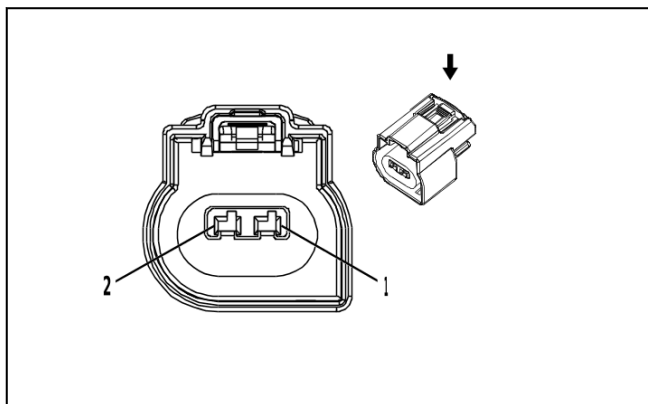
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B68B Knock Sensor 2 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / GY	(1) 1876	(1) Knock Sensor 2 Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GY	(2) 2303	(2) Knock Sensor Low Reference 2	(2) I	(2) —

B68B Knock Sensor 2 (L84 / L87)



2717073

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34752-0204
- Service Connector: 19301207
- Description: 2-Way F 1.5 MX Series, Sealed(BK)

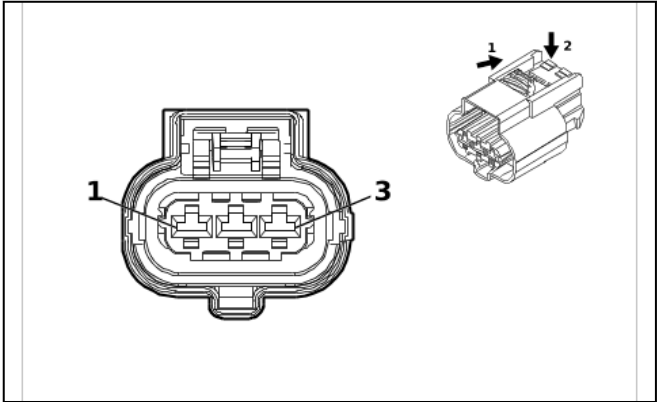
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B68B Knock Sensor 2 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) WH / GY	(1) 1876	(1) Knock Sensor 2 Signal	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK / GY	(2) 2303	(2) Knock Sensor Low Reference 2	(2) I	(2) —

B74 Manifold Absolute Pressure Sensor (L84 / L87)



4900977

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35133579
- Service Connector: 84815530
- Description: 3-Way F 2.8 CTS Series, Sealed(BK)

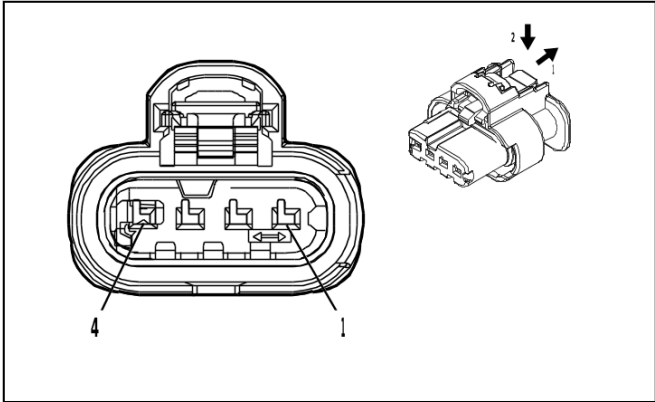
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

B74 Manifold Absolute Pressure Sensor (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / RD	(1) 2704	(1) Manifold Absolute Pressure Sensor 5V Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GN	(2) 469	(2) Manifold Absolute Pressure Sensor Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / WH	(3) 432	(3) Manifold Absolute Pressure Sensor Signal	(3) I	(3) —

B75 Mass Airflow Sensor



4934614

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296696-2
- Service Connector: 85519071
- Description: 4-Way F 1.2 MCON-CB Series, Sealed(BK)

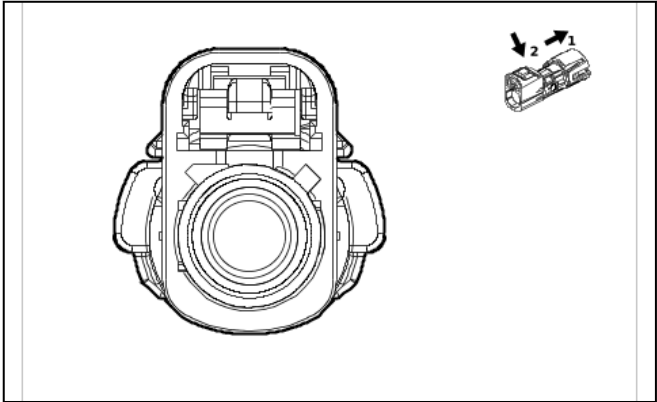
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B75 Mass Airflow Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BU	(1) 5294	(1) Powertrain Main Relay Fused Supply Voltage 5	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / WH	(2) 492	(2) Mass Air Flow Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / YE	(3) 4622	(3) Engine Control Module LIN Bus 2	(3) I	(3) —
(4) 4	(4) 0.5 (4) 0.75	(4) BK (4) BK / WH	(4) 6550 (4) 251	(4) Ground (4) Signal Ground	(4) I (4) I	(4) L3B (4) L84 / L87 / LZ0

B87 Rearview Driver Information Camera (UV2)



5758030

Connector Part Information

- Harness Type: Endgate Wiring Harness COAX
- OEM Connector: 35187032
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BK)

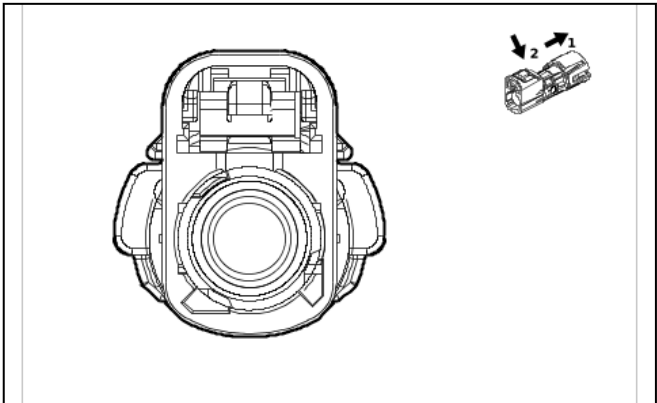
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

B87 Rearview Driver Information Camera (UV2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Rear Vision Camera Coaxial Video Signal	I	—

B87 Rearview Driver Information Camera (UVB)



5757455

Connector Part Information

- Harness Type: Endgate Wiring Harness COAX
- OEM Connector: 35187043
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(OG)

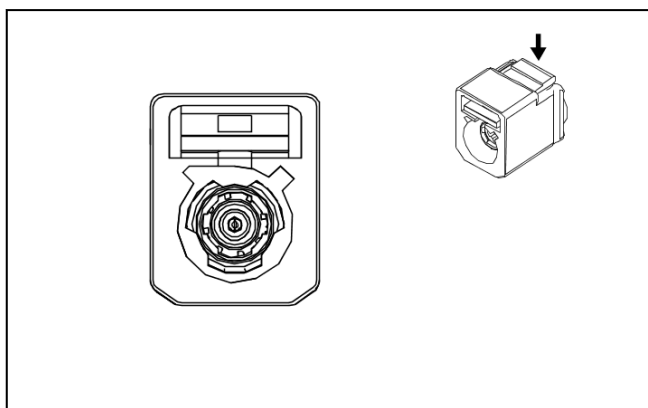
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

B87 Rearview Driver Information Camera (UVB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Rear Vision Camera Coaxial Video Signal	I	—

B87CA Auxiliary Rearview Camera - Cargo Area (UVN)



3293633

Connector Part Information

- Harness Type: Inside Rearview Mirror Wiring Harness - Jumper COAX
- OEM Connector: 3FA1ENARJ-C01ER
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BK)

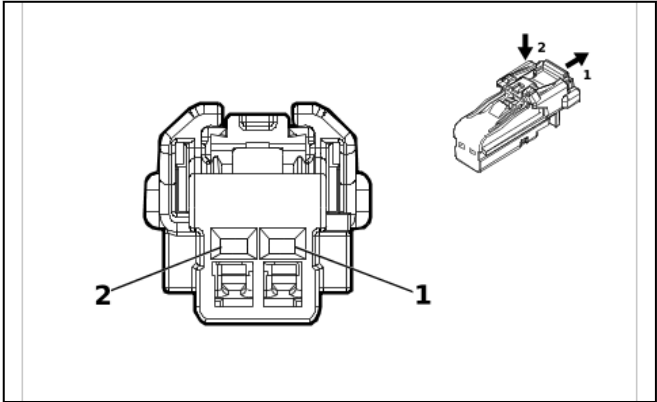
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

B87CA Auxiliary Rearview Camera - Cargo Area (UVN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Cargo Bed Rear Vision Camera Coaxial Video Signal	I	—

B88D Seat Belt Switch - Driver



4115691

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

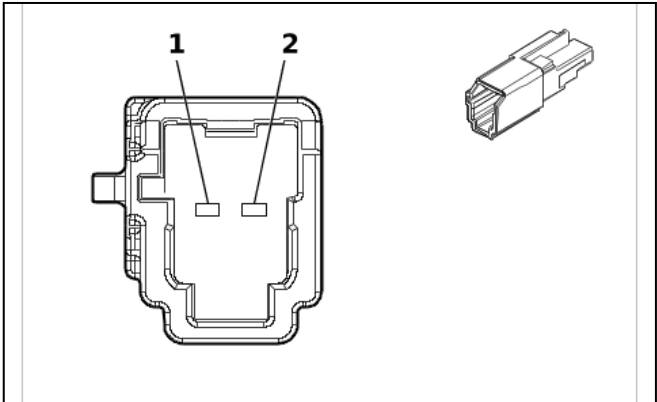
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B88D Seat Belt Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / OG	(1) 1363	(1) Driver Seat Belt Switch Low Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) OG / GY	(2) 2652	(2) Driver Seat Belt Sensor Signal	(2) I	(2) —

B88LR Seat Belt Switch - Left Rear



6529124

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 6099-0610
- Service Connector: 85725003
- Description: 2-Way M 1.2 MBS Series(BK)

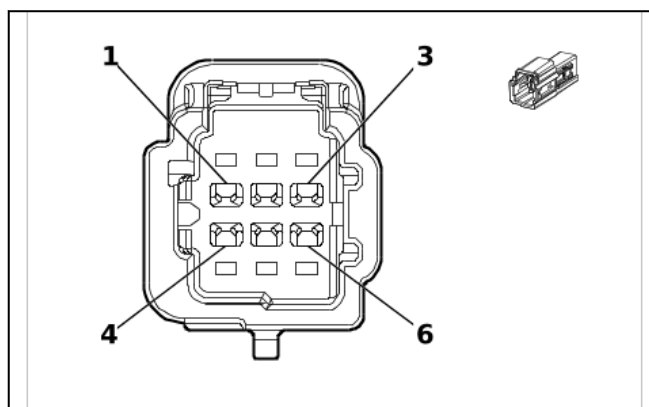
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

B88LR Seat Belt Switch - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / OG	(1) 1363	(1) Driver Seat Belt Switch Low Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / OG	(2) 5161	(2) Left Rear Seat Belt Switch Signal	(2) I	(2) —

B88MR Seat Belt Switch - Rear Middle



5714613

Connector Part Information

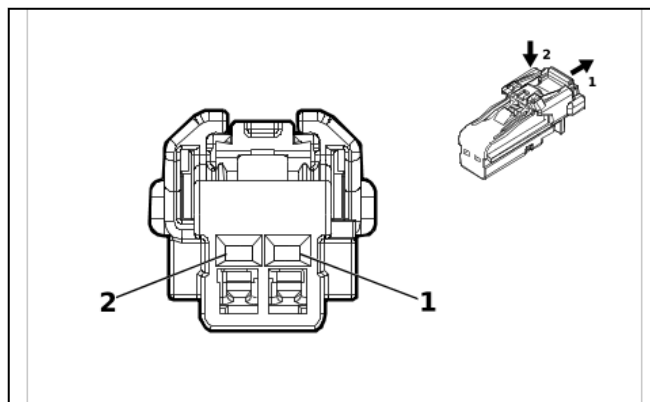
- Harness Type: Body Wiring Harness
- OEM Connector: 6098-9120
- Service Connector: 86825467
- Description: 6-Way M 1.2 MBS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

B88MR Seat Belt Switch - Rear Middle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / OG	(1) 1363	(1) Driver Seat Belt Switch Low Reference	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) BK / OG	(3) 1363	(3) Driver Seat Belt Switch Low Reference	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU / OG	(4) 5163	(4) Rear Center Seat Belt Switch Signal	(4) I	(4) —
(5) 5	(5) 0.5	(5) BN / OG	(5) 5163	(5) Rear Center Seat Belt Switch Signal	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

B88P Seat Belt Switch - Passenger

4115691

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B88P Seat Belt Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / OG	(1) 1363	(1) Driver Seat Belt Switch Low Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) OG / VT	(2) 1362	(2) Passenger Seat Belt Switch Signal	(2) I	(2) —

B88RR Seat Belt Switch - Right Rear**Connector Part Information**

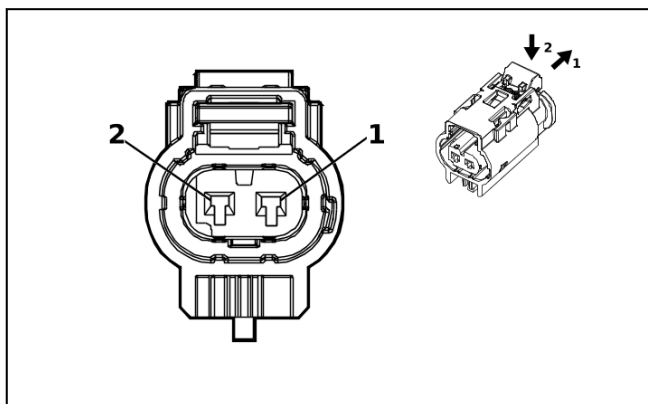
- Harness Type: Rear Seat Wiring Harness
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

B88RR Seat Belt Switch - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(2) 2	(2) 0.5	(2) BN / OG	(2) 5162	(2) Right Rear Seat Belt Switch Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / OG	(3) 1363	(3) Driver Seat Belt Switch Low Reference	(3) I	(3) —

B96 Cylinder Head Temperature Sensor

3747580

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10094236
- Service Connector: 19332627
- Description: 2-Way F 1.2 Multilock Series, Sealed(GY)

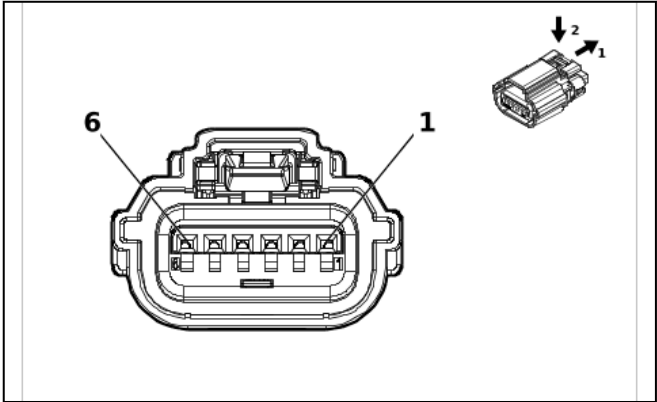
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B96 Cylinder Head Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / YE	(1) 37	(1) Engine Block Temperature Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GN	(2) 580	(2) Engine Control Sensors Low Reference 2	(2) I	(2) —

B107 Accelerator Pedal Position Sensor



5921819

Connector Part Information

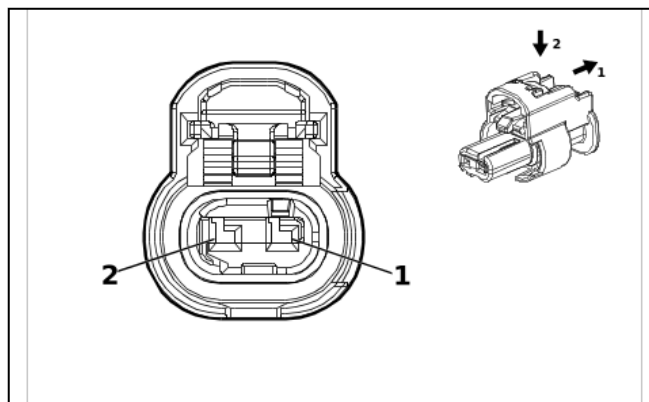
- Harness Type: Body Wiring Harness
- OEM Connector: 35390637
- Service Connector: 86825466
- Description: 6-Way F 0.64 OCS Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B107 Accelerator Pedal Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) WH / RD	(1) 1164	(1) Accelerator Pedal Position 5V Reference 1	(1) I	(1) —
(2) 2	(2) 0.35	(2) YE / WH	(2) 1161	(2) Accelerator Pedal Position Signal 1	(2) I	(2) —
(3) 3	(3) 0.35	(3) BK / BU	(3) 1271	(3) Accelerator Pedal Position Low Reference 1	(3) I	(3) —
(4) 4	(4) 0.35	(4) BK / VT	(4) 1272	(4) Accelerator Pedal Position Low Reference 2	(4) I	(4) —
(5) 5	(5) 0.35	(5) GN / WH	(5) 1162	(5) Accelerator Pedal Position Signal 2	(5) I	(5) —
(6) 6	(6) 0.35	(6) BN / RD	(6) 1274	(6) Accelerator Pedal Position 5V Reference 2	(6) I	(6) —

B110 Battery Monitor Module X1

4649903

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 1-2296694-1
- Service Connector: 85761014
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B110 Battery Monitor Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GN / YE	(1) 2855	(1) Body Control Module LIN Bus 9	(1) I	(1) —
(2) 2	(2) 0.75	(2) RD / YE	(2) 2340	(2) Battery Positive Voltage	(2) I	(2) —

B110 Battery Monitor Module X2 (L3B / L84 / L87)**Connector Part Information**

- Harness Type: Battery Negative Cable
- OEM Connector: 13516387
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

B110 Battery Monitor Module X2 (L3B / L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	50	BK	550	Ground	I	—

B110 Battery Monitor Module X2 (LZ0)**Connector Part Information**

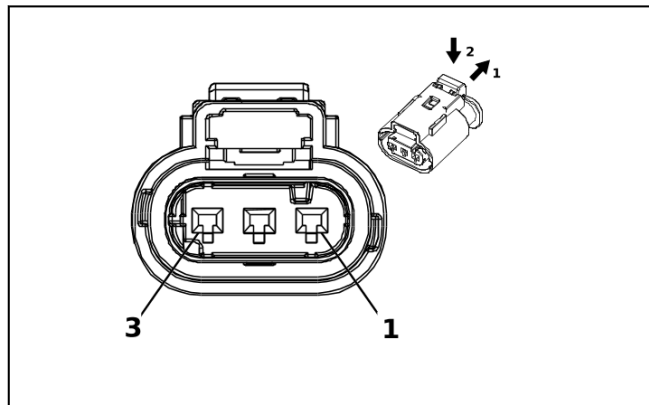
- Harness Type: Battery Negative Cable
- OEM Connector: 13516387
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

B110 Battery Monitor Module X2 (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	50	BK	550	Ground	I	—

B111 Turbocharger/Supercharger Boost Pressure Sensor

2717069

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010341
- Service Connector: 84601390
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

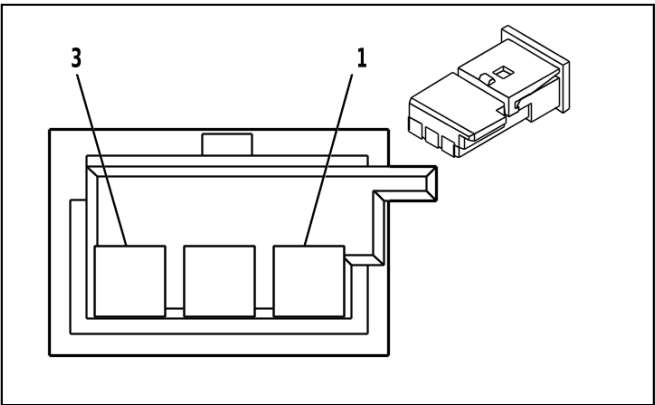
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B111 Turbocharger/Supercharger Boost Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / RD	(1) 460	(1) Engine Control Sensors 5 Volt Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) Engine Control Sensors Low Reference 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE / WH	(3) 3200	(3) Throttle Inlet Absolute Pressure Sensor Signal	(3) I	(3) —

B117A Windshield Outside Moisture/Ambient Light and Humidity Sensor (ASV & CE1)



647970

Connector Part Information

- Harness Type: Headlamp Automatic Control Ambient Light Sensor Wiring Harness
- OEM Connector: 1-1718346-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 0.64 Micro-Quadlock Series(BK)

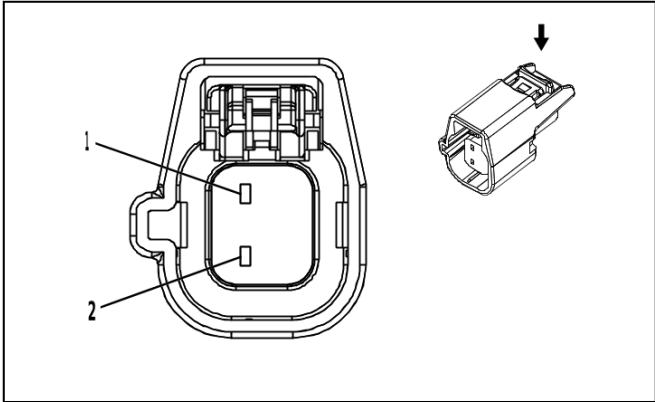
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B117A Windshield Outside Moisture/Ambient Light and Humidity Sensor (ASV & CE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) RD / VT	(1) 339	(1) Run/Crank Ignition 1 Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) GN / BN	(2) 4115	(2) Body Control Module LIN Bus 5	(2) I	(2) —
(3) 3	(3) 0.35	(3) BK	(3) 851	(3) Signal Ground	(3) I	(3) —

B118 Windshield Washer Solvent Container Level Sensor



3958652

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 7287-8378-40
- Service Connector: 13593220
- Description: 2-Way F 1.5 Series, Sealed(L-GY)

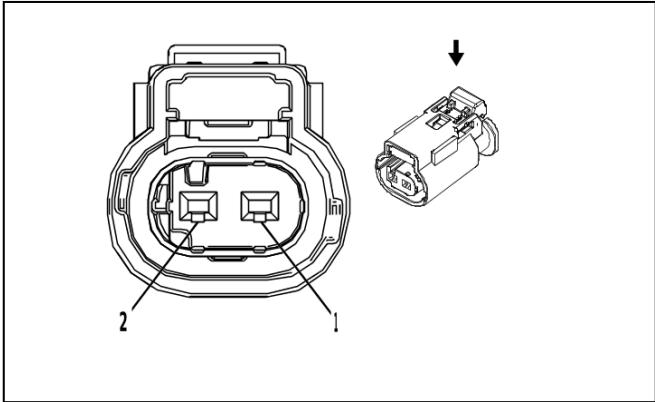
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B118 Windshield Washer Solvent Container Level Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) VT	(1) 185	(1) Low Washer Fluid Indicator Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / WH	(2) 151	(2) Signal Ground	(2) I	(2) —

B130C Exhaust Gas Recirculation Temperature Sensor 3



2830969

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010339
- Service Connector: 13587321
- Description: 2-Way F 1.2 Multilock Series, Sealed(D-GY)

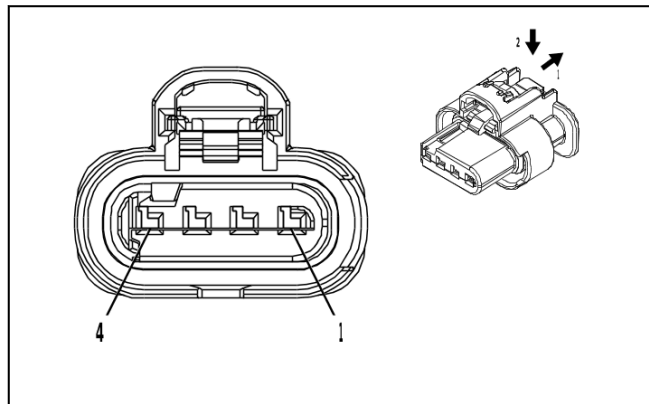
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B130C Exhaust Gas Recirculation Temperature Sensor 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / GN	(1) 3235	(1) Exhaust Gas Recirculation Temperature Sensor 3 Low Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH / GY	(2) 3234	(2) Exhaust Gas Recirculation Temperature Sensor 3 Signal	(2) I	(2) —

B136 Exhaust Particulate Matter Sensor (LM2)



4210809

Connector Part Information

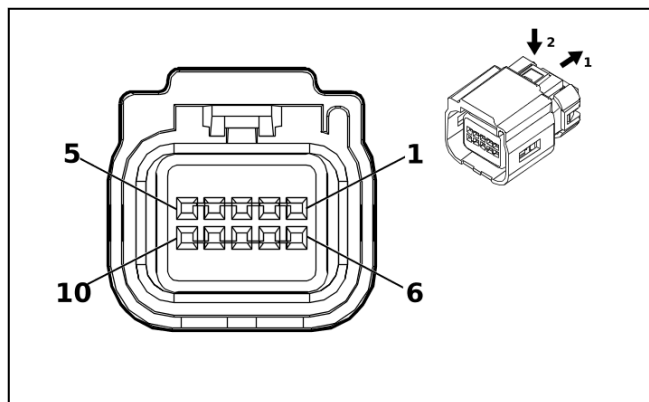
- Harness Type: Chassis Wiring Harness
- OEM Connector: 1-2296696-1
- Service Connector: 85518225
- Description: 4-Way F 1.2 MCON-CB Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B136 Exhaust Particulate Matter Sensor (LM2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK / WH	(1) 1151	(1) Signal Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU / GY	(2) 4054	(2) Private Serial Data Powertrain CAN Bus [-] Serial Data	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH	(3) 4055	(3) Private Serial Data Powertrain CAN Bus [+] Serial Data	(3) I	(3) —
(4) 4	(4) 1	(4) VT / GN	(4) 4320	(4) Powertrain Sensor Bus Enable	(4) I	(4) —

B137B Power Steering Shaft Torque/Position Sensor

3608469

Connector Part Information

- Harness Type: Power Steering Control Module Wiring Harness
- OEM Connector: 13587225
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 0.64 Kaizen Series, Sealed(GY)

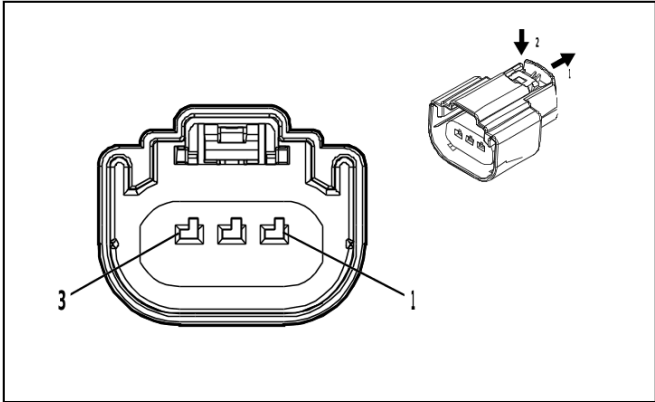
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B137B Power Steering Shaft Torque/Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU	(1) 8367	(1) Handwheel Channel A Torque Pressure Sensor 1 SENT Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) RD	(2) 8366	(2) Handwheel Channel A High Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK	(3) 8370	(3) Handwheel Channel A Low Reference	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH / RD	(4) 8371	(4) Handwheel Channel B High Reference	(4) I	(4) —
(5) 5	(5) 0.5	(5) WH / BU	(5) 8372	(5) Handwheel Channel B Torque Pressure Sensor 1 SENT Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) VT	(6) 8368	(6) Handwheel Channel A Torque Pressure Sensor 2 SENT Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) OG	(7) 8369	(7) Handwheel Channel A Angle Position Sensor SENT Signal	(7) I	(7) —
(8) 8	(8) 0.5	(8) GY	(8) 8375	(8) Handwheel Channel B Low Reference	(8) I	(8) —
(9) 9	(9) 0.5	(9) YE	(9) 8374	(9) Handwheel Channel B Angle Position Sensor SENT Signal	(9) I	(9) —
(10) 10	(10) 0.5	(10) GN	(10) 8373	(10) Handwheel Channel B Torque Pressure Sensor 2 SENT Signal	(10) I	(10) —

B139 Transfer Case Two/Four Wheel Drive Actuator Position Sensor (NP0 / NQH)



4569745

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 33343869
- Service Connector: 19179750
- Description: 3-Way F 1.5 MX Series, Sealed(BK)

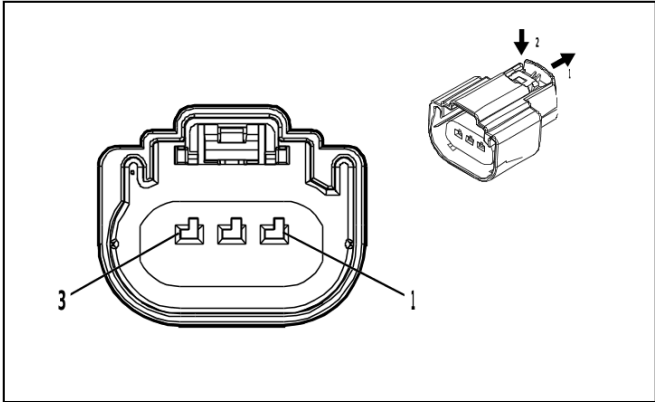
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

B139 Transfer Case Two/Four Wheel Drive Actuator Position Sensor (NP0 / NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / RD	(1) 7477	(1) Gear Position Sensor 5V Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH / GN	(2) 7479	(2) Rotary Position Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE / BK	(3) 7478	(3) Gear Position Sensor Low Reference	(3) I	(3) —

B150 Fuel Tank Pressure Sensor



4589538

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 160073-3106
- Service Connector: 84569854
- Description: 3-Way F 1.5 MX Series, Sealed(GY)

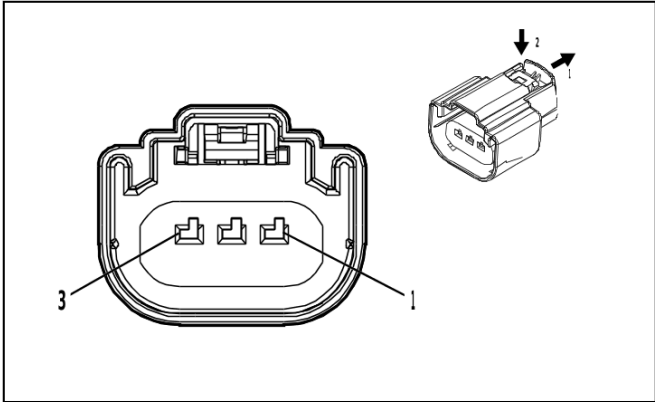
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B150 Fuel Tank Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) BU / GN (1) BU / WH	(1) 890 (1) 890	(1) Fuel Tank Pressure Sensor Signal (1) Fuel Tank Pressure Sensor Signal	(1) I (1) I	(1) FHS (1) FJW
(2) 2	(2) 0.5	(2) BK / BN	(2) 6284	(2) Fuel Tank Pressure Sensor Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE / RD	(3) 2709	(3) Fuel Tank Pressure Sensor 5V Reference	(3) I	(3) —

B152LF Front Suspension Automatic Forward Lighting Position Sensor - Left (Z45)



4569745

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 33343869
- Service Connector: 19179750
- Description: 3-Way F 1.5 MX Series, Sealed(BK)

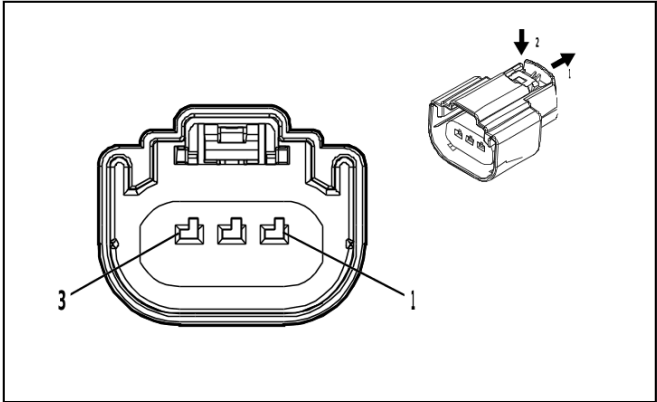
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B152LF Front Suspension Automatic Forward Lighting Position Sensor - Left (Z45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / RD	(1) 1205	(1) Left Front Suspension Position Sensor Voltage Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / BU	(2) 1206	(2) Left Front Suspension Position Sensor Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) BN / WH	(3) 1207	(3) Left Front Suspension Position Sensor Signal	(3) I	(3) —

B152R Rear Suspension Automatic Forward Lighting Leveling Position Sensor (Z45)



4569745

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 33343869
- Service Connector: 19179750
- Description: 3-Way F 1.5 MX Series, Sealed(BK)

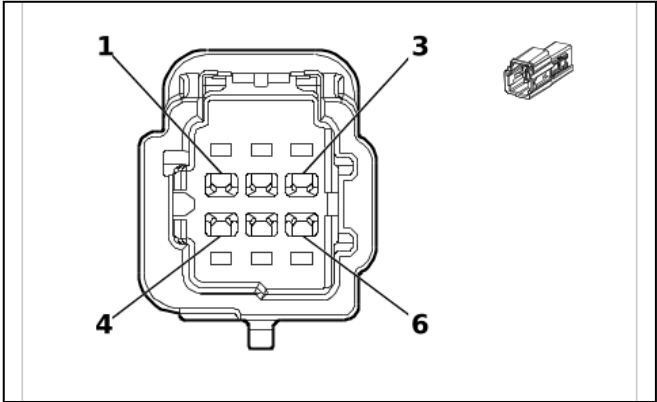
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B152R Rear Suspension Automatic Forward Lighting Leveling Position Sensor (Z45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / RD	(1) 1208	(1) Left Rear Suspension Position Sensor Voltage Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GN	(2) 1209	(2) Left Rear Suspension Position Sensor Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / WH	(3) 1210	(3) Left Rear Suspension Position Sensor Signal	(3) I	(3) —

B153RM Rear Center Seat Belt Buckle



5714613

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 6098-9120
- Service Connector: 86825467
- Description: 6-Way M 1.2 MBS Series(BK)

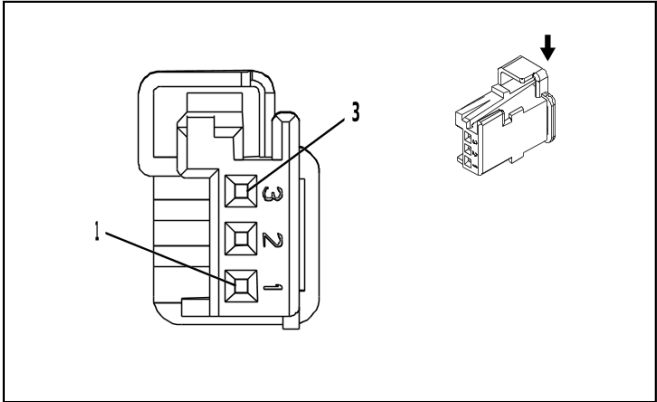
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

B153RM Rear Center Seat Belt Buckle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.5	(2) BU / OG	(2) 5163	(2) Rear Center Seat Belt Switch Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / OG	(3) 1363	(3) Driver Seat Belt Switch Low Reference	(3) I	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) BN / OG	(5) 5162	(5) Right Rear Seat Belt Switch Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) BK / OG	(6) 1363	(6) Driver Seat Belt Switch Low Reference	(6) I	(6) —

B160 Inside Air Moisture and Windshield Temperature Sensor (ASV - CE1)



4218883

Connector Part Information

- Harness Type: Inside Rearview Mirror Wiring Harness - Jumper
- OEM Connector: 13593004
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 0.64 Micro-Quadlock Series(BK)

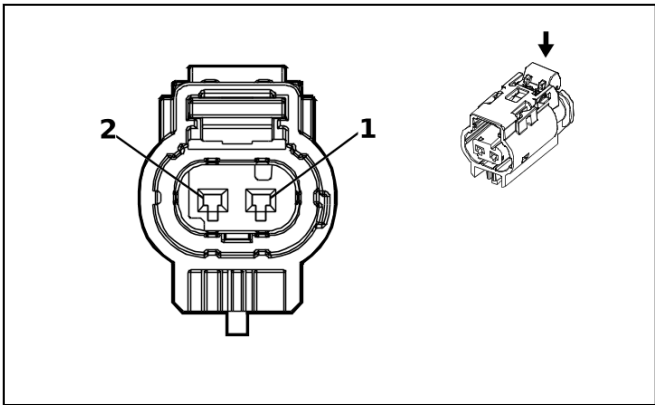
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B160 Inside Air Moisture and Windshield Temperature Sensor (ASV - CE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) VT / BK	(1) 339	(1) Run/Crank Ignition 1 Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) BK / WH	(2) 851	(2) Signal Ground	(2) I	(2) —
(3) 3	(3) 0.35	(3) GN / WH	(3) 4115	(3) Body Control Module LIN Bus 5	(3) I	(3) —

B172LF Front Disc Brake Pad Wear Sensor - Left (JBP)



3747581

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 10094234
- Service Connector: 84727362
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

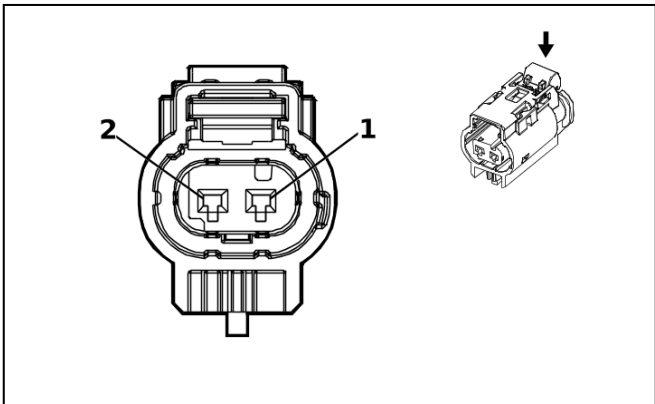
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B172LF Front Disc Brake Pad Wear Sensor - Left (JBP)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / BU	(1) 1602	(1) Front Brake Pad Wear Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / WH	(2) 1151	(2) Signal Ground	(2) I	(2) —

B172LR Rear Disc Brake Pad Wear Sensor - Left



3747581

Connector Part Information

- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 10094234
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

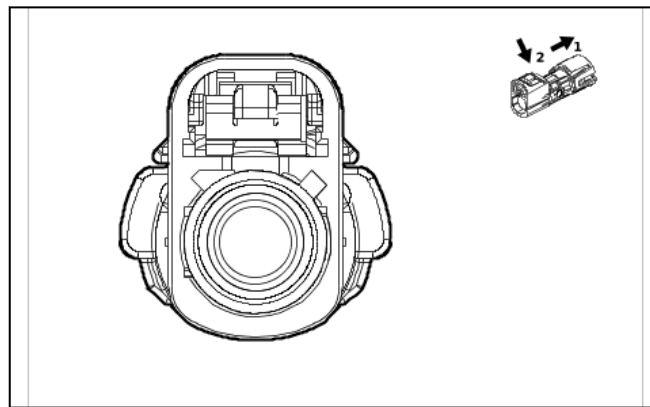
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B172LR Rear Disc Brake Pad Wear Sensor - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GN / YE	(1) 1616	(1) Rear Brake Pad Wear Sensor Signal	(1) I	(1) - Z45
	(1) 0.75	(1) GN / YE	(1) 1616	(1) Rear Brake Pad Wear Sensor Signal	(1) I	(1) Z45, + G94
(2) 2	(2) 0.75	(2) BK / WH	(2) 1951	(2) Signal Ground	(2) I	(2) - Z45
	(2) 0.75	(2) BK / WH	(2) 1951	(2) Signal Ground	(2) I	(2) Z45, + G94

B174G Front View Driver Information Camera - Grille (- GRZ)



5758030

Connector Part Information

- Harness Type: Front View Camera Switch Wiring Harness COAX
- OEM Connector: 35187032
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BK)

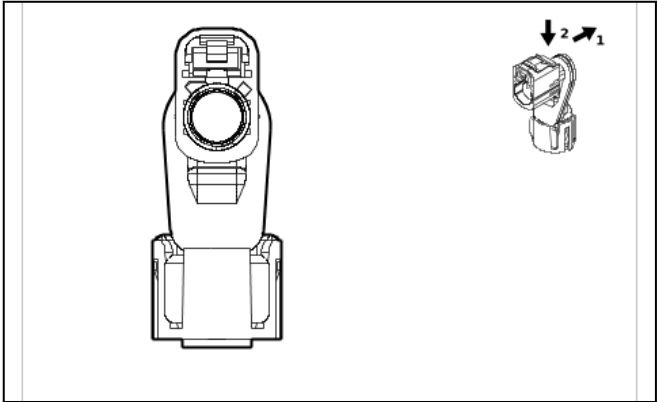
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

B174G Front View Driver Information Camera - Grille (- GRZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Front Vision Camera 1 Coaxial Video Signal	I	—

B174G Front View Driver Information Camera - Grille (GRZ)



5920539

Connector Part Information

- Harness Type: Front View Camera Switch Wiring Harness COAX
- OEM Connector: 35339728
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BK)

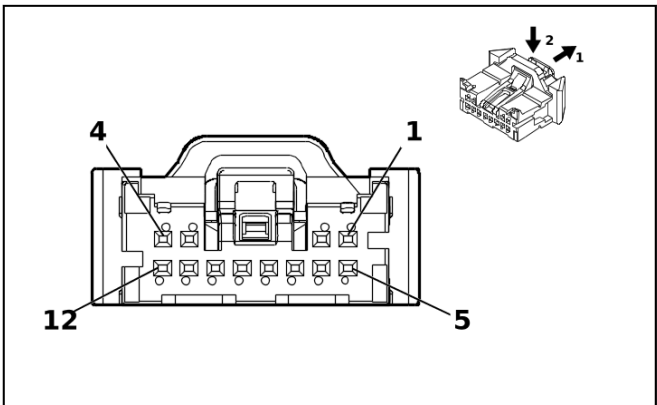
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

B174G Front View Driver Information Camera - Grille (GRZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Front Vision Camera 1 Coaxial Video Signal	I	—

B174W Front View Camera - Windshield



5360826

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 35068239
- Service Connector: 13529935
- Description: 12-Way F 050 CTS Series(BK)

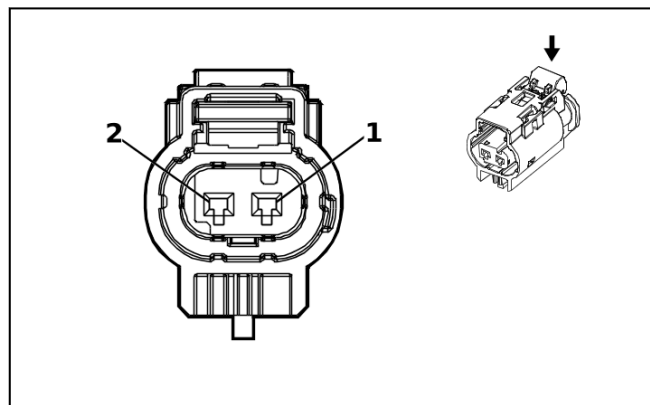
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84944580	EL-35616-58 (BK)	EL-38125-58

B174W Front View Camera - Windshield

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK / WH	(1) 851	(1) Signal Ground	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) RD / YE	(3) 240	(3) Battery Positive Voltage	(3) I	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.35 (5) 0.35	(5) BU / GY (5) BU / YE	(5) 4105 (5) 4979	(5) AUTOSAR CAN Bus [+] 8 Serial Data (5) AUTOSAR CAN Bus [+] 2 Serial Data	(5) I (5) I	(5) UGN- GF2- GF5- GPZ (5) UHY+ (GF2/ GF5/ GPZ)
(6) 6	(6) 0.35 (6) 0.35	(6) WH / GY (6) WH	(6) 4104 (6) 4978	(6) AUTOSAR CAN Bus [-] 8 Serial Data (6) AUTOSAR CAN Bus [-] 2 Serial Data	(6) I (6) I	(6) UGN- GF2- GF5- GPZ (6) UHY+ (GF2/ GF5/ GPZ)
(7) 7	(7) 0.35 (7) 0.35	(7) BU / GY (7) BU / YE	(7) 4105 (7) 4979	(7) AUTOSAR CAN Bus [+] 8 Serial Data (7) AUTOSAR CAN Bus [+] 2 Serial Data	(7) I (7) I	(7) UGN- GF2- GF5- GPZ (7) UHY+ (GF2/ GF5/ GPZ)
(8) 8	(8) 0.35 (8) 0.35	(8) WH / GY (8) WH	(8) 4104 (8) 4978	(8) AUTOSAR CAN Bus [-] 8 Serial Data (8) AUTOSAR CAN Bus [-] 2 Serial Data	(8) I (8) I	(8) UGN- GF2- GF5- GPZ (8) UHY+ (GF2/ GF5/ GPZ)
9 - 12	—	—	—	Not Occupied	—	—

B193A Charge Air Cooler Air Temperature Sensor - Inlet



3747581

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10094234
- Service Connector: 84727362
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

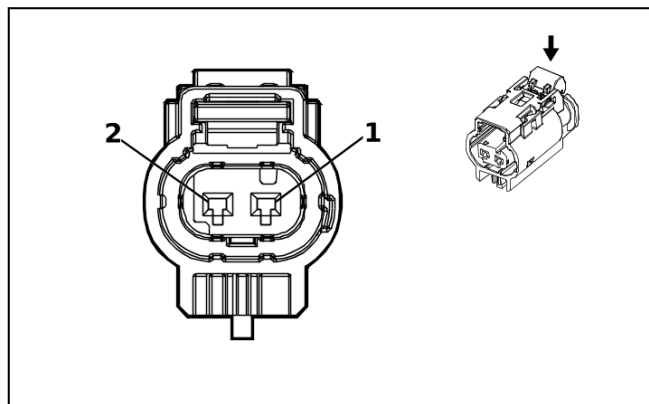
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B193A Charge Air Cooler Air Temperature Sensor - Inlet

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN	(1) 3683	(1) Charge Air Cooler Inlet Temperature Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / BK	(2) 3682	(2) Charge Air Cooler Inlet Temperature Sensor Low Reference	(2) I	(2) —

B193B Charge Air Cooler Air Temperature Sensor - Outlet



3747581

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10094234
- Service Connector: 84727362
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

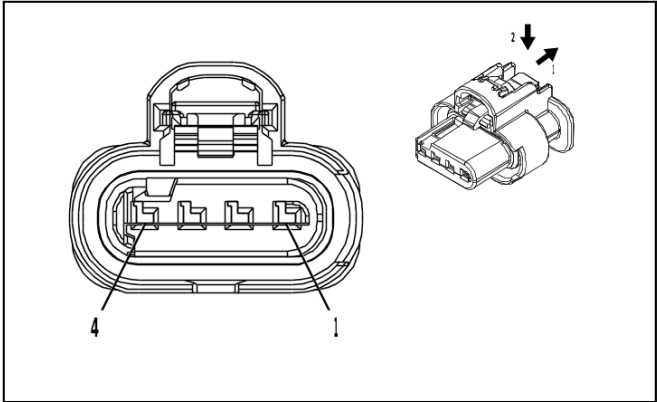
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B193B Charge Air Cooler Air Temperature Sensor - Outlet

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 3681	(1) Charge Air Cooler Outlet Temperature Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / BU	(2) 3680	(2) Charge Air Cooler Outlet Temperature Sensor Low Reference	(2) I	(2) —

B195A Nitrogen Oxides Sensor 1



4210809

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296696-1
- Service Connector: 85518225
- Description: 4-Way F 1.2 MCON-CB Series, Sealed(BK)

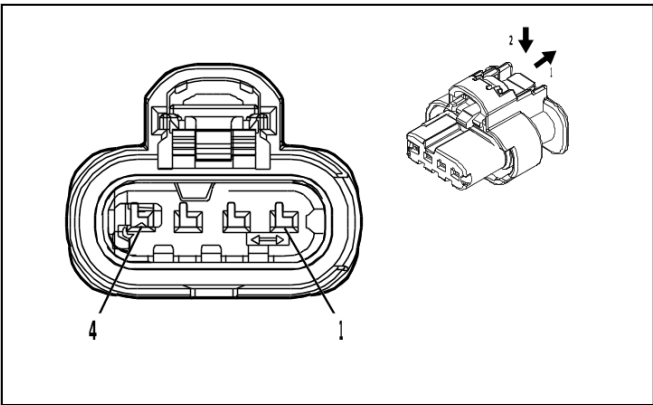
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B195A Nitrogen Oxides Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) VT / GN	(1) 4320	(1) Powertrain Sensor Bus Enable	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH	(2) 4055	(2) Private Serial Data Powertrain CAN Bus [+] Serial Data	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / GY	(3) 4054	(3) Private Serial Data Powertrain CAN Bus [-] Serial Data	(3) I	(3) —
(4) 4	(4) 1	(4) BK / WH	(4) 1151	(4) Signal Ground	(4) I	(4) —

B195B Nitrogen Oxides Sensor 2 (LM2)



4934614

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 1-2296696-2
- Service Connector: 85519071
- Description: 4-Way F 1.2 MCON-CB Series, Sealed(BK)

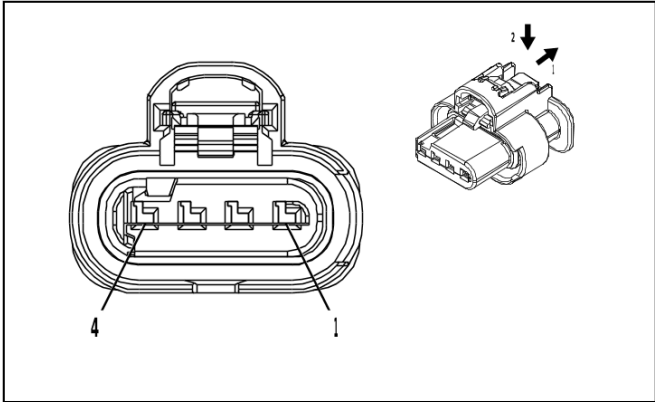
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B195B Nitrogen Oxides Sensor 2 (LM2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) VT / GN	(1) 4320	(1) Powertrain Sensor Bus Enable	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH	(2) 4055	(2) Private Serial Data Powertrain CAN Bus [+] Serial Data	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / GY	(3) 4054	(3) Private Serial Data Powertrain CAN Bus [-] Serial Data	(3) I	(3) —
(4) 4	(4) 1	(4) BK / WH	(4) 1151	(4) Signal Ground	(4) I	(4) —

B195C Nitrogen Oxides Sensor 3 (LM2)



4210809

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 1-2296696-1
- Service Connector: 85518225
- Description: 4-Way F 1.2 MCON-CB Series, Sealed(BK)

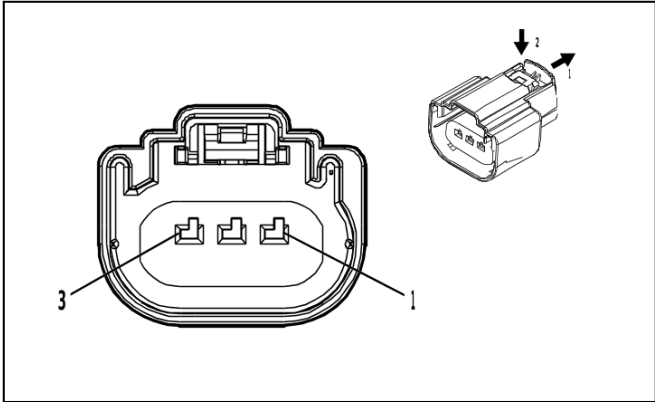
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B195C Nitrogen Oxides Sensor 3 (LM2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) VT / GN	(1) 4320	(1) Powertrain Sensor Bus Enable	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH	(2) 4055	(2) Private Serial Data Powertrain CAN Bus [+] Serial Data	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / GY	(3) 4054	(3) Private Serial Data Powertrain CAN Bus [-] Serial Data	(3) I	(3) —
(4) 4	(4) 1	(4) BK / WH	(4) 1151	(4) Signal Ground	(4) I	(4) —

B198 Fuel Composition Sensor (FHS)



4829227

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 160073-3107
- Service Connector: 19371197
- Description: 3-Way F 1.5 MX Series, Sealed(GY)

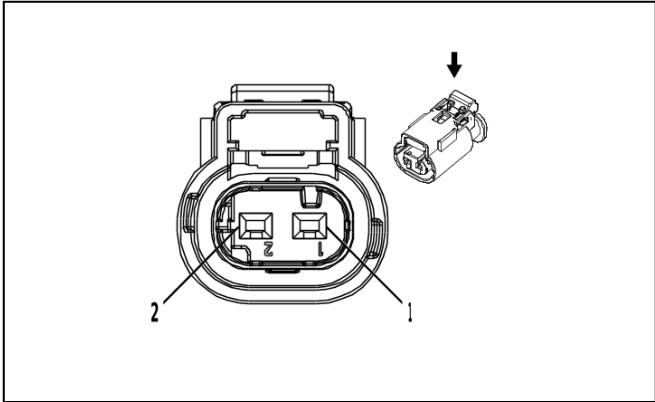
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

B198 Fuel Composition Sensor (FHS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / GN	(1) 4320	(1) Powertrain Sensor Bus Enable	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GY	(2) 3802	(2) Fuel Composition Sensor Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) VT / BN	(3) 3803	(3) Fuel Composition Sensor Signal	(3) I	(3) —

B203 Radiator Coolant Temperature Sensor



2717066

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010337
- Service Connector: 13587326
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

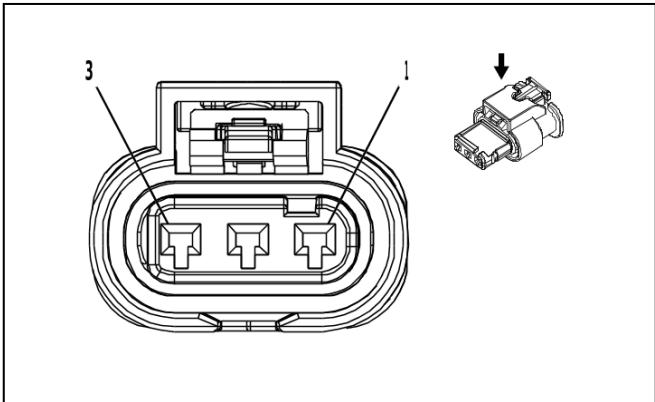
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B203 Radiator Coolant Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / BK	(1) 3000	(1) Coolant Temperature Sensor 2 Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GN	(2) 580	(2) Engine Control Sensors Low Reference 2	(2) I	(2) —

B212 Reductant Tank Fluid Sensor (LZ0)



2750649

Connector Part Information

- Harness Type: Emission Reduction Fluid Tank Reservoir Wire Harness
- OEM Connector: 13722729
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 MCON Series, Sealed(BK)

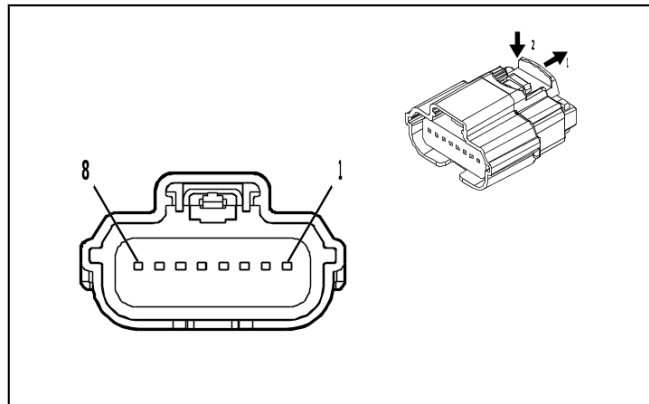
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B212 Reductant Tank Fluid Sensor (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 7290	(1) Diesel Exhaust Fluid Sensor Voltage Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN	(2) 7284	(2) Diesel Exhaust Fluid Liquid Quality Temperature Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK	(3) 8434	(3) Diesel Exhaust Fluid Sensor Low Reference	(3) I	(3) —

B218L Side Obstacle Detection Control Module - Left (UKC / UKV)



4708234

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 31404-9110
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 64 Series, Sealed(BK)

Terminal Part Information

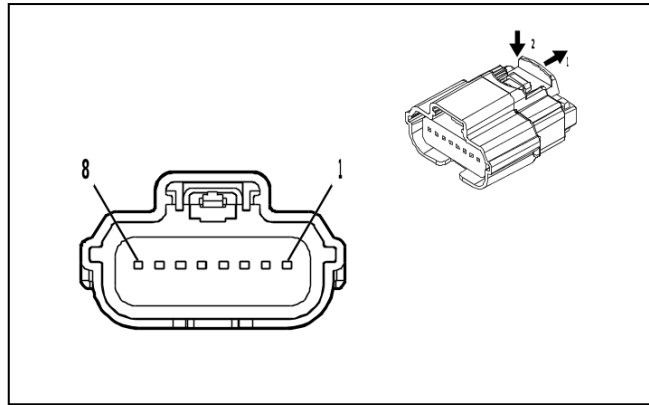
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B218L Side Obstacle Detection Control Module - Left (UKC / UKV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 4087	(1) Private Serial Data Side Obstacle Detection CAN Bus [-] Serial Data	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU / VT	(2) 4088	(2) Private Serial Data Side Obstacle Detection CAN Bus [+] Serial Data	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / WH	(3) 1951	(3) Signal Ground	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH	(4) 4100	(4) AUTOSAR CAN Bus [-] 4 Serial Data	(4) I	(4) —
(5) 5	(5) 0.5	(5) WH	(5) 4100	(5) AUTOSAR CAN Bus [-] 4 Serial Data	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / VT	(6) 4101	(6) AUTOSAR CAN Bus [+] 4 Serial Data	(6) I	(6) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(7) 7	(7) 0.5	(7) BU / VT	(7) 4101	(7) AUTOSAR CAN Bus [+] 4 Serial Data	(7) I	(7) —
(8) 8	(8) 0.5	(8) RD / GN	(8) 6940	(8) Battery Positive Voltage	(8) I	(8) —

B218R Side Obstacle Detection Control Module - Right (UKC / UKV)



4708234

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 31404-9532
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 64 Series, Sealed(BK)

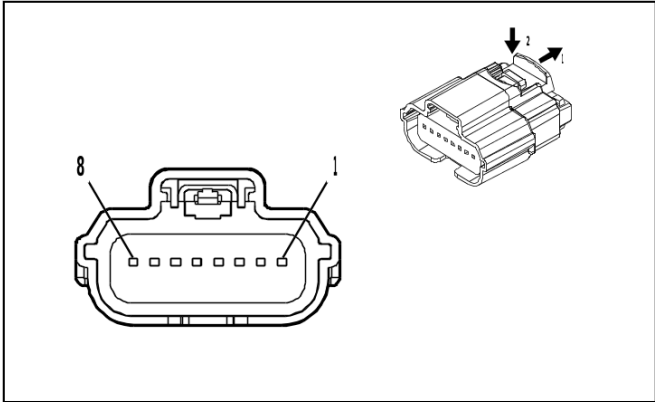
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B218R Side Obstacle Detection Control Module - Right (UKC / UKV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 4087	(1) Private Serial Data Side Obstacle Detection CAN Bus [-] Serial Data	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU / VT	(2) 4088	(2) Private Serial Data Side Obstacle Detection CAN Bus [+] Serial Data	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / WH	(3) 1951	(3) Signal Ground	(3) I	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) WH	(5) 4100	(5) AUTOSAR CAN Bus [-] 4 Serial Data	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / VT	(6) 4101	(6) AUTOSAR CAN Bus [+] 4 Serial Data	(6) I	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.5	(8) RD / GN	(8) 6940	(8) Battery Positive Voltage	(8) I	(8) —

B233B Forward Range Radar Sensor - Long Range (UKL / (UGN - UKL))



4708234

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 13526723
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 64 Series, Sealed(BK)

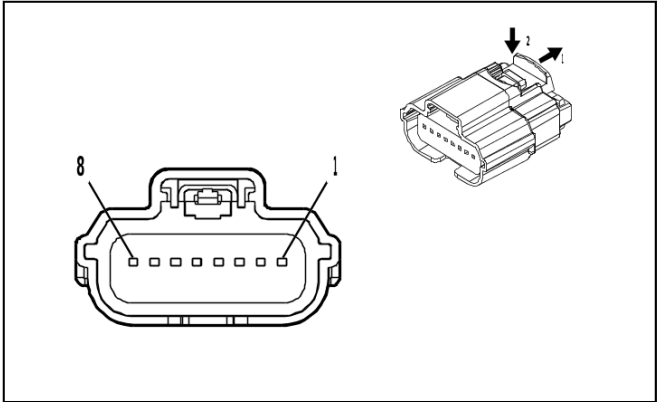
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B233B Forward Range Radar Sensor - Long Range (UKL / (UGN - UKL))

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) BU / GY	(3) 4105	(3) AUTOSAR CAN Bus [+] 8 Serial Data	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH / GY	(4) 4104	(4) AUTOSAR CAN Bus [-] 8 Serial Data	(4) I	(4) —
(5) 5	(5) 0.5	(5) RD / GN	(5) 3140	(5) Battery Positive Voltage	(5) I	(5) —
6 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.5	(8) BK / WH	(8) 651	(8) Signal Ground	(8) I	(8) —

B233LF Short Range Radar Sensor - Left Front (UKL)



4708234

Connector Part Information

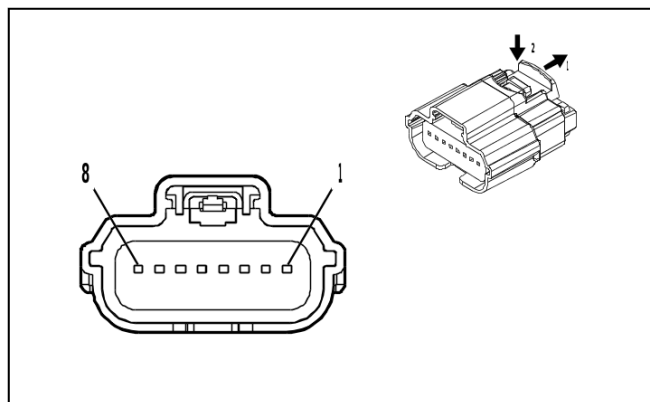
- Harness Type: Front Object Alarm Sensor Wiring Harness - Jumper
- OEM Connector: 31404-9171
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 64 Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B233LF Short Range Radar Sensor - Left Front (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / WH	(1) 651	(1) Signal Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / WH	(2) 651	(2) Signal Ground	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.5	(4) RD / GN	(4) 3140	(4) Battery Positive Voltage	(4) I	(4) —
(5) 5	(5) 0.5	(5) WH / GY	(5) 4104	(5) AUTOSAR CAN Bus [-] 8 Serial Data	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / GY	(6) 4105	(6) AUTOSAR CAN Bus [+] 8 Serial Data	(6) I	(6) —
(7) 7	(7) 0.5	(7) WH / GY	(7) 4104	(7) AUTOSAR CAN Bus [-] 8 Serial Data	(7) I	(7) —
(8) 8	(8) 0.5	(8) BU / GY	(8) 4105	(8) AUTOSAR CAN Bus [+] 8 Serial Data	(8) I	(8) —

B233LR Short Range Radar Rear Sensor - Left (UKL)

4708234

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 31404-9552
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 64 Series, Sealed(BK)

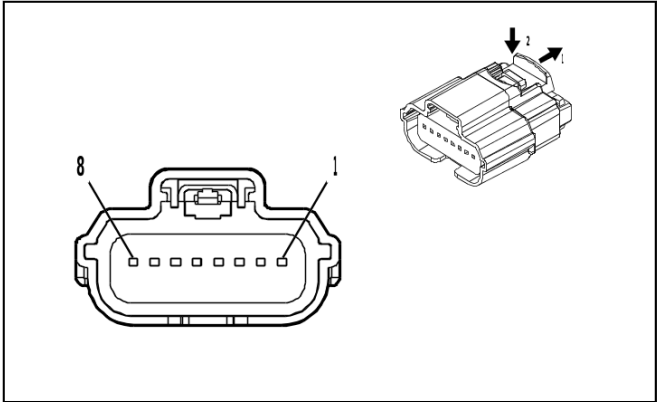
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B233LR Short Range Radar Rear Sensor - Left (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / WH	(1) 1951	(1) Signal Ground	(1) I	(1) —
2 - 3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.5	(4) RD / BU	(4) 5240	(4) Battery Positive Voltage	(4) I	(4) —
(5) 5	(5) 0.5	(5) WH / GY	(5) 4104	(5) AUTOSAR CAN Bus [-] 8 Serial Data	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / GY	(6) 4105	(6) AUTOSAR CAN Bus [+] 8 Serial Data	(6) I	(6) —
(7) 7	(7) 0.5	(7) WH / GY	(7) 4104	(7) AUTOSAR CAN Bus [-] 8 Serial Data	(7) I	(7) —
(8) 8	(8) 0.5	(8) BU / GY	(8) 4105	(8) AUTOSAR CAN Bus [+] 8 Serial Data	(8) I	(8) —

B233RF Short Range Radar Sensor - Right Front (UKL)



4708234

Connector Part Information

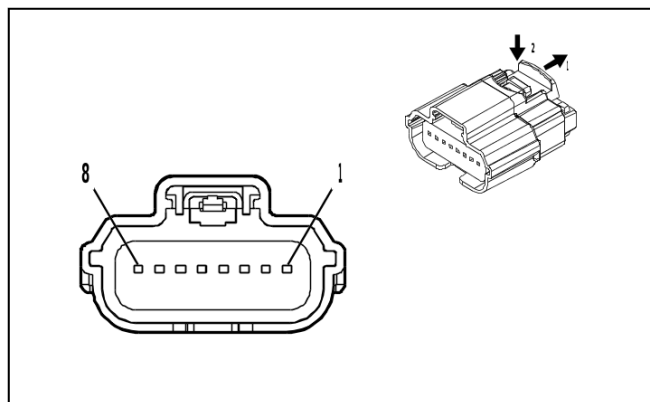
- Harness Type: Front Object Alarm Sensor Wiring Harness - Jumper
- OEM Connector: 31404-9171
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 64 Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B233RF Short Range Radar Sensor - Right Front (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / WH	(1) 651	(1) Signal Ground	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) BK / WH	(3) 651	(3) Signal Ground	(3) I	(3) —
(4) 4	(4) 0.5	(4) RD / GN	(4) 3140	(4) Battery Positive Voltage	(4) I	(4) —
(5) 5	(5) 0.5	(5) WH / GY	(5) 4104	(5) AUTOSAR CAN Bus [-] 8 Serial Data	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / GY	(6) 4105	(6) AUTOSAR CAN Bus [+] 8 Serial Data	(6) I	(6) —
(7) 7	(7) 0.5	(7) WH / GY	(7) 4104	(7) AUTOSAR CAN Bus [-] 8 Serial Data	(7) I	(7) —
(8) 8	(8) 0.5	(8) BU / GY	(8) 4105	(8) AUTOSAR CAN Bus [+] 8 Serial Data	(8) I	(8) —

B233RR Short Range Radar Rear Sensor - Right (UKL)

4708234

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 31404-9110
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 64 Series, Sealed(BK)

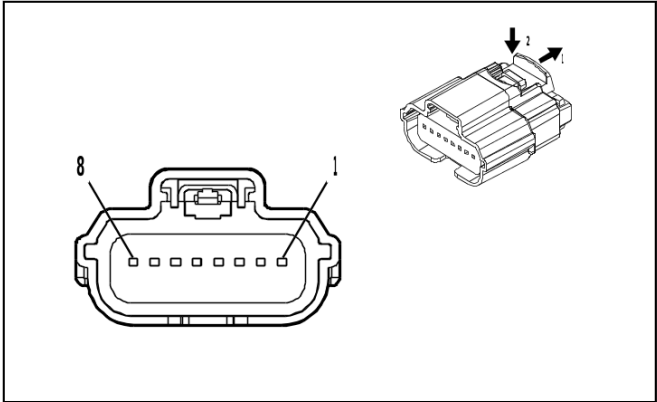
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B233RR Short Range Radar Rear Sensor - Right (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / WH	(1) 1951	(1) Signal Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / WH	(2) 1951	(2) Signal Ground	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / WH	(3) 1951	(3) Signal Ground	(3) I	(3) —
(4) 4	(4) 0.5	(4) RD / BU	(4) 5240	(4) Battery Positive Voltage	(4) I	(4) —
(5) 5	(5) 0.5	(5) WH / GY	(5) 4104	(5) AUTOSAR CAN Bus [-] 8 Serial Data	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / GY	(6) 4105	(6) AUTOSAR CAN Bus [+] 8 Serial Data	(6) I	(6) —
(7) 7	(7) 0.5	(7) WH / GY	(7) 4104	(7) AUTOSAR CAN Bus [-] 8 Serial Data	(7) I	(7) —
(8) 8	(8) 0.5	(8) BU / GY	(8) 4105	(8) AUTOSAR CAN Bus [+] 8 Serial Data	(8) I	(8) —

B233SL Short Range Radar Rear Side Sensor - Left (UKL)



4708234

Connector Part Information

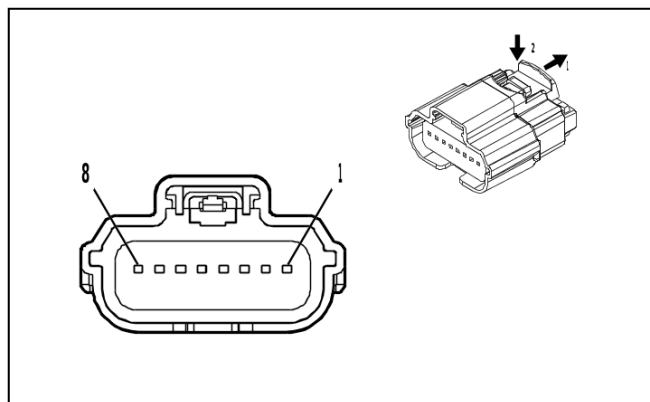
- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 31404-9552
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 64 Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B233SL Short Range Radar Rear Side Sensor - Left (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / WH	(1) 1951	(1) Signal Ground	(1) I	(1) —
2 - 3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.5	(4) RD / BU	(4) 5240	(4) Battery Positive Voltage	(4) I	(4) —
(5) 5	(5) 0.5	(5) WH / GY	(5) 4104	(5) AUTOSAR CAN Bus [-] 8 Serial Data	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / GY	(6) 4105	(6) AUTOSAR CAN Bus [+] 8 Serial Data	(6) I	(6) —
(7) 7	(7) 0.5	(7) WH / GY	(7) 4104	(7) AUTOSAR CAN Bus [-] 8 Serial Data	(7) I	(7) —
(8) 8	(8) 0.5	(8) BU / GY	(8) 4105	(8) AUTOSAR CAN Bus [+] 8 Serial Data	(8) I	(8) —

B233SR Short Range Radar Rear Side Sensor - Right (UKL)

4708234

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 31404-9110
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 64 Series, Sealed(BK)

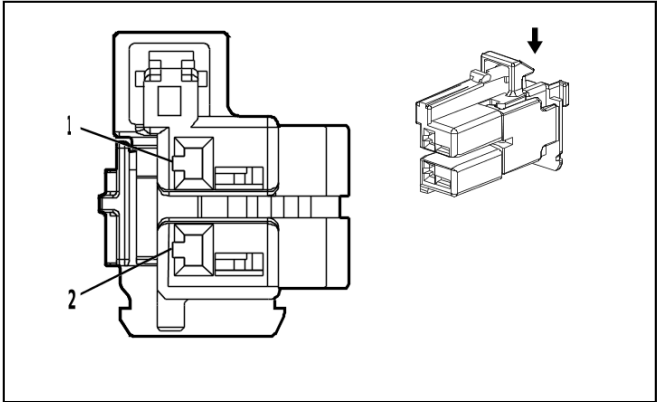
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B233SR Short Range Radar Rear Side Sensor - Right (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / WH	(1) 1951	(1) Signal Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / WH	(2) 1951	(2) Signal Ground	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / WH	(3) 1951	(3) Signal Ground	(3) I	(3) —
(4) 4	(4) 0.5	(4) RD / BU	(4) 5240	(4) Battery Positive Voltage	(4) I	(4) —
(5) 5	(5) 0.5	(5) WH / GY	(5) 4104	(5) AUTOSAR CAN Bus [-] 8 Serial Data	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / GY	(6) 4105	(6) AUTOSAR CAN Bus [+] 8 Serial Data	(6) I	(6) —
(7) 7	(7) 0.5	(7) WH / GY	(7) 4104	(7) AUTOSAR CAN Bus [-] 8 Serial Data	(7) I	(7) —
(8) 8	(8) 0.5	(8) BU / GY	(8) 4105	(8) AUTOSAR CAN Bus [+] 8 Serial Data	(8) I	(8) —

B280 Transmission Fluid Pressure Accumulator Solenoid Valve



4672650

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 2356394-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BN)

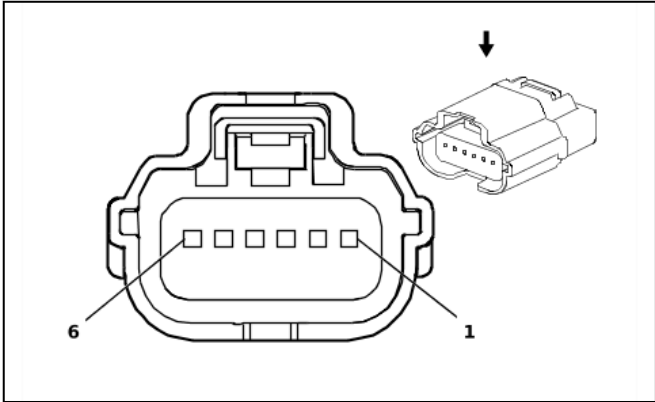
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	No Tool Required	No Tool Required

B280 Transmission Fluid Pressure Accumulator Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / GN	(1) 6387	(1) Transmission High Side Driver 1 Control	(1) II	(1) —
(2) 2	(2) 0.5	(2) GN / WH	(2) 2968	(2) Transmission Auxiliary Fluid Pump Control	(2) I	(2) —

B284 Vehicle Dynamics Sensor (UKL)



1974974

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35473844
- Service Connector: 84773558
- Description: 6-Way F 0.64 Series, Sealed(BK)

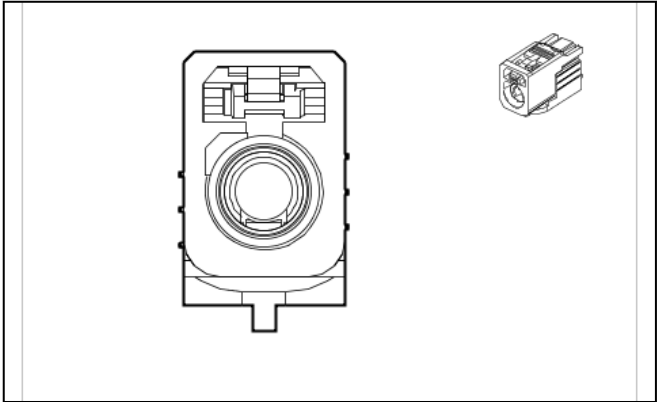
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

B284 Vehicle Dynamics Sensor (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / GY	(1) 8978	(1) Inertial Sensor Supply Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU / YE	(2) 8977	(2) Private Serial Data Active Safety CAN Bus [+] Serial Data	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH / YE	(3) 8976	(3) Private Serial Data Active Safety CAN Bus [-] Serial Data	(3) I	(3) —
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.5	(6) BK / WH	(6) 1551	(6) Signal Ground	(6) I	(6) —

B292 Driver Monitoring Camera (UKL)



5633912

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33351016
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(GN)

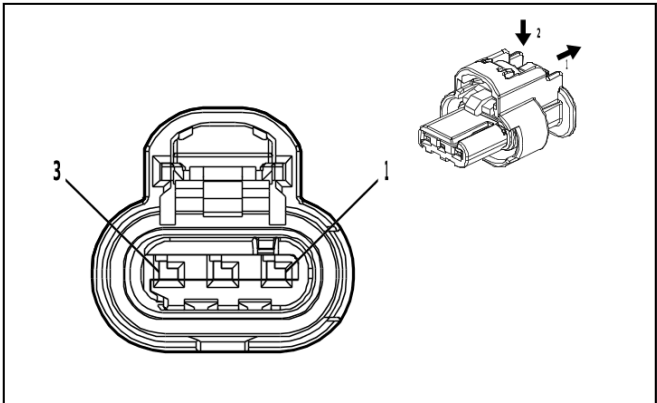
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

B292 Driver Monitoring Camera (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Driver Monitoring System Camera Coaxial Signal	I	—

B306A Parking Assist Alarm Sensor - Front Left Outer (UD5)



4581126

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 13514590
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

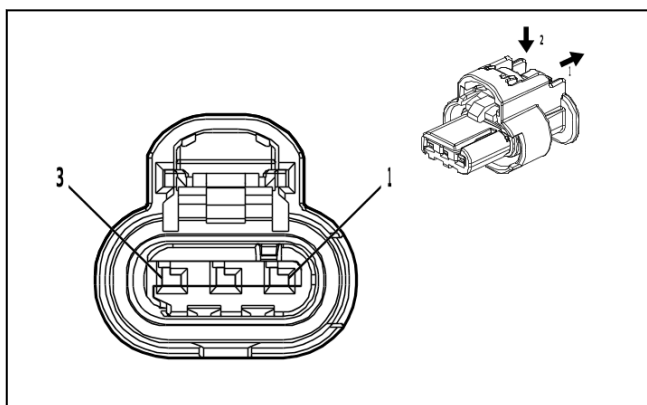
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B306A Parking Assist Alarm Sensor - Front Left Outer (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 6581	(1) Front Parking Assist Display Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / WH	(2) 5215	(2) Left Front Outer Parking Assist Sensor	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / BU	(3) 5214	(3) Front Parking Assist Sensor Low Reference	(3) I	(3) —

B306B Parking Assist Alarm Sensor - Front Left Middle (UD5)



4581126

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 13514590
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

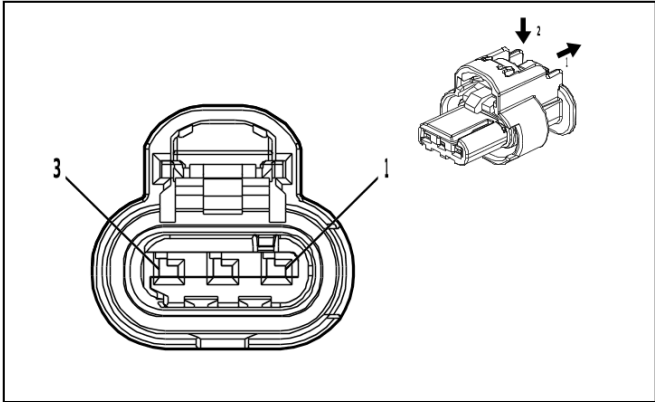
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B306B Parking Assist Alarm Sensor - Front Left Middle (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 6581	(1) Front Parking Assist Display Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / GY	(2) 5216	(2) Left Front Middle Parking Assist Sensor	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / BU	(3) 5214	(3) Front Parking Assist Sensor Low Reference	(3) I	(3) —

B306C Parking Assist Alarm Sensor - Front Right Middle (UD5)



4581126

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 13514590
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

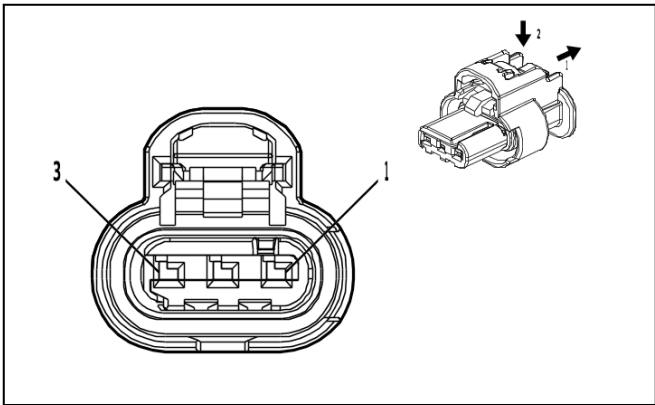
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B306C Parking Assist Alarm Sensor - Front Right Middle (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 6581	(1) Front Parking Assist Display Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / GY	(2) 5218	(2) Right Front Middle Parking Assist Sensor	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / BU	(3) 5214	(3) Front Parking Assist Sensor Low Reference	(3) I	(3) —

B306D Parking Assist Alarm Sensor - Front Right Outer (UD5)



4581126

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 13514590
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

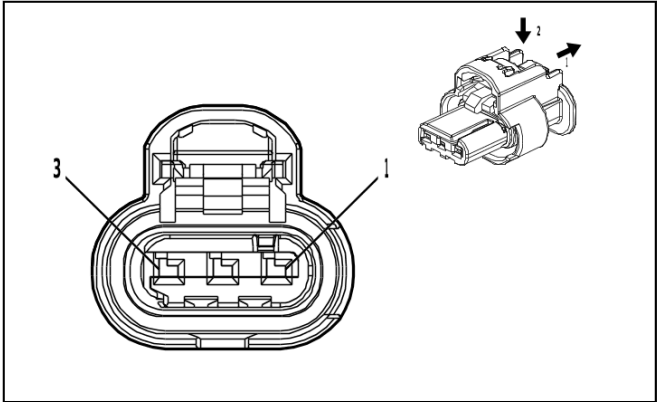
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B306D Parking Assist Alarm Sensor - Front Right Outer (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 6581	(1) Front Parking Assist Display Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH / GY	(2) 5217	(2) Right Front Outer Parking Assist Sensor	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / BU	(3) 5214	(3) Front Parking Assist Sensor Low Reference	(3) I	(3) —

B306E Parking Assist Alarm Sensor - Rear Left Outer (UD5)



4581126

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

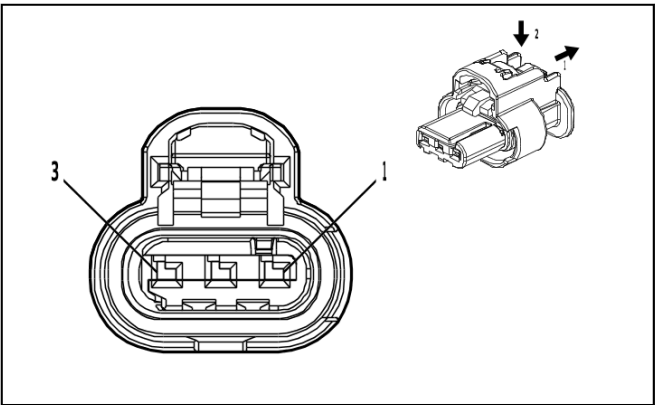
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B306E Parking Assist Alarm Sensor - Rear Left Outer (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / WH	(1) 2374	(1) Object Sensor Voltage Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE	(2) 2375	(2) Left Rear Outer Parking Assist Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / GY	(3) 2379	(3) Object Sensor Low Reference	(3) I	(3) —

B306F Parking Assist Alarm Sensor - Rear Left Middle (UD5)



4581126

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

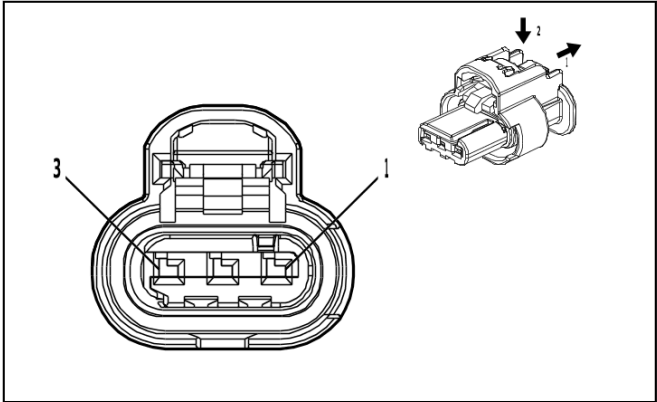
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B306F Parking Assist Alarm Sensor - Rear Left Middle (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / WH	(1) 2374	(1) Object Sensor Voltage Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / BU	(2) 2376	(2) Left Rear Middle Parking Assist Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / GY	(3) 2379	(3) Object Sensor Low Reference	(3) I	(3) —

B306G Parking Assist Alarm Sensor - Rear Right Middle (UD5)



4581126

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

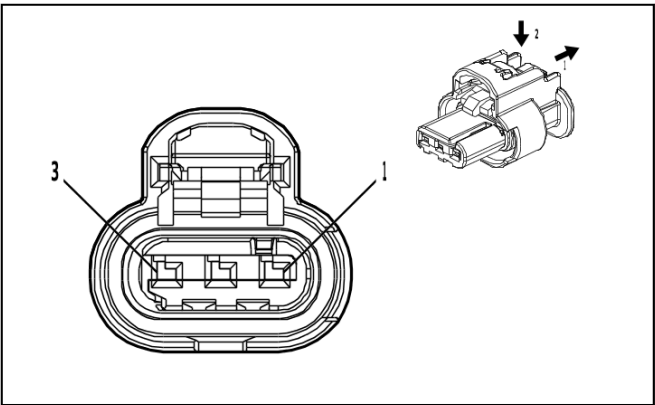
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B306G Parking Assist Alarm Sensor - Rear Right Middle (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / WH	(1) 2374	(1) Object Sensor Voltage Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / WH	(2) 2377	(2) Right Rear Middle Parking Assist Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / GY	(3) 2379	(3) Object Sensor Low Reference	(3) I	(3) —

B306H Parking Assist Alarm Sensor - Rear Right Outer (UD5)



4581126

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

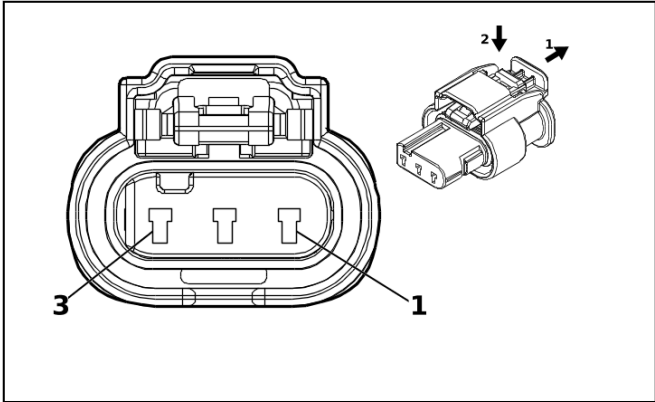
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B306H Parking Assist Alarm Sensor - Rear Right Outer (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / WH	(1) 2374	(1) Object Sensor Voltage Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / VT	(2) 2378	(2) Right Rear Outer Parking Assist Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / GY	(3) 2379	(3) Object Sensor Low Reference	(3) I	(3) —

B310 Fuel Pressure and Temperature Sensor (L3B)



5420917

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 34900-3127
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 MCON-LL Series, Sealed(GY)

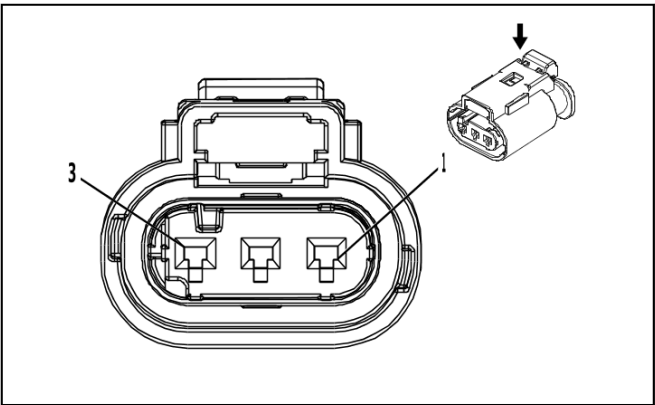
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B310 Fuel Pressure and Temperature Sensor (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / GN	(1) 580	(1) Engine Control Sensors Low Reference 2	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU / WH	(2) 10786	(2) Fuel Rail Pressure Sensor SENT 1 Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH / RD	(3) 480	(3) Engine Control Vehicle Sensors 5 Volt Reference 1	(3) I	(3) —

B310 Fuel Pressure and Temperature Sensor (L84 / L87)



3240107

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Bank 1
- OEM Connector: 10010344
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

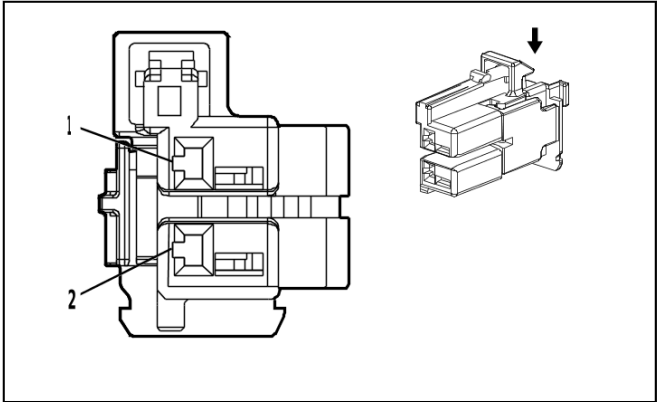
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B310 Fuel Pressure and Temperature Sensor (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / GN	(1) 548	(1) Engine Control Sensors Low Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU / WH	(2) 2918	(2) Fuel Rail Pressure Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BN / RD	(3) 480	(3) Engine Control Vehicle Sensors 5 Volt Reference 1	(3) I	(3) —

B315A Transmission Range Control Valve 1 Position Switch (MHS / MQC)



4672650

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control Extension
- OEM Connector: 2289523-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BN)

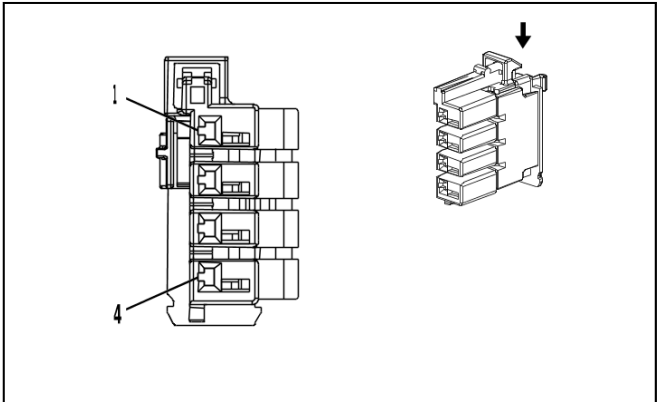
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B315A Transmission Range Control Valve 1 Position Switch (MHS / MQC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU	(1) 4171	(1) Transmission Input Shaft Speed Sensor Circuit 9V Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GY	(2) 3706	(2) Electronic Transmission Range Select Switch Analog Signal 1	(2) I	(2) —

B316 Transmission Park Valve Position Switch (MHS / MQC)



4364148

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 2289524-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2 MCON Series(BN)

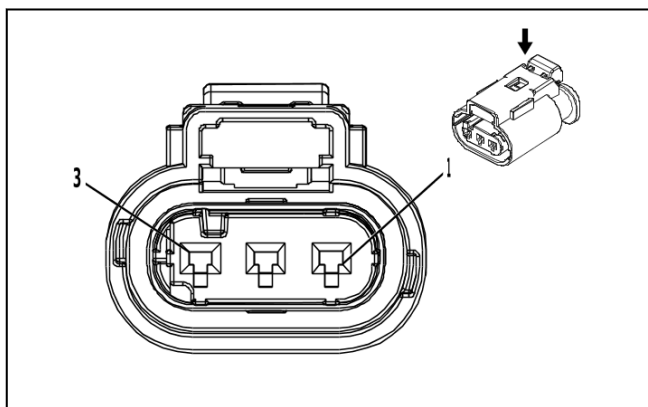
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

B316 Transmission Park Valve Position Switch (MHS / MQC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.5	(2) GN	(2) 4170	(2) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE	(3) 6317	(3) Electronic Transmission Range Select Out of Park Switch Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) YE / GY	(4) 6319	(4) Electronic Transmission Range Select Out of Park Switch 2 Signal	(4) I	(4) —

B321 Crankcase Pressure Sensor (L3B)



3240107

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010344
- Service Connector: 19301717
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

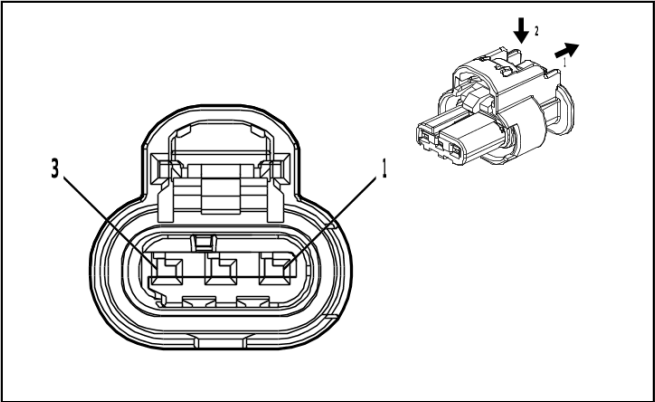
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B321 Crankcase Pressure Sensor (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / GY	(1) 3926	(1) Crankcase Differential Pressure Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) Engine Control Sensors Low Reference 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / RD	(3) 460	(3) Engine Control Sensors 5 Volt Reference 1	(3) I	(3) —

B321 Crankcase Pressure Sensor (LZ0)



4994602

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-3
- Service Connector: 19371199
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

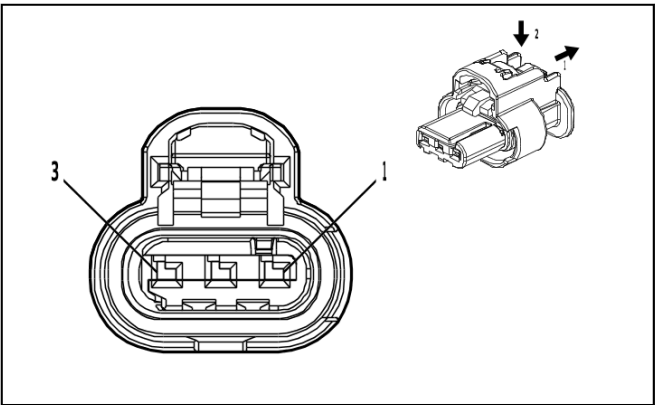
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B321 Crankcase Pressure Sensor (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / GY	(1) 3926	(1) Crankcase Differential Pressure Sensor Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) Engine Control Sensors Low Reference 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / RD	(3) 460	(3) Engine Control Sensors 5 Volt Reference 1	(3) I	(3) —

B338A Intake Camshaft Profile Sleeve Position Sensor 1 (L3B)



4581126

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

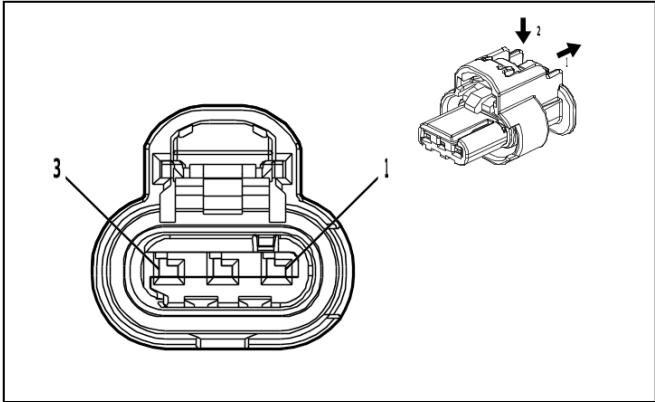
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B338A Intake Camshaft Profile Sleeve Position Sensor 1 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / RD	(1) 480	(1) Engine Control Vehicle Sensors 5 Volt Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GN	(2) 580	(2) Engine Control Sensors Low Reference 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) VT / WH	(3) 3744	(3) Camshaft Intake Lobe Axial Position Signal 1	(3) I	(3) —

B338B Intake Camshaft Profile Sleeve Position Sensor 2 (L3B)



4581126

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

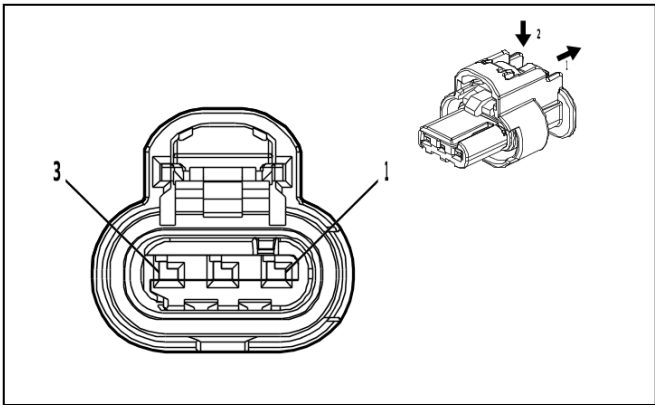
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B338B Intake Camshaft Profile Sleeve Position Sensor 2 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / RD	(1) 480	(1) Engine Control Vehicle Sensors 5 Volt Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GN	(2) 580	(2) Engine Control Sensors Low Reference 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) VT / GN	(3) 3745	(3) Camshaft Intake Lobe Axial Position Signal 2	(3) I	(3) —

B339A Exhaust Camshaft Profile Sleeve Position Sensor 1 (L3B)



4581126

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

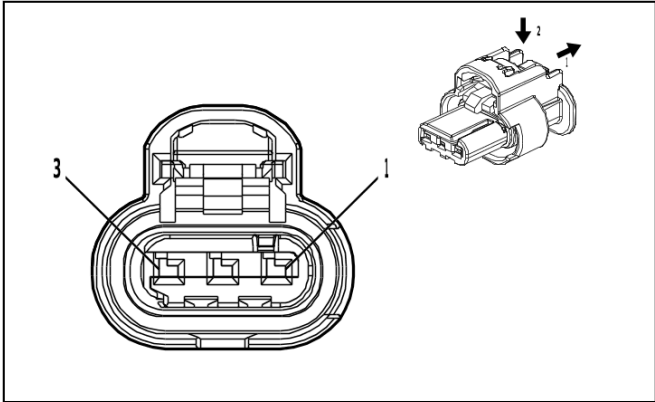
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B339A Exhaust Camshaft Profile Sleeve Position Sensor 1 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / RD	(1) 480	(1) Engine Control Vehicle Sensors 5 Volt Reference 1	(1) I	(1) L3B
(2) 2	(2) 0.5	(2) BK / GN	(2) 580	(2) Engine Control Sensors Low Reference 2	(2) I	(2) L3B
(3) 3	(3) 0.5	(3) YE / WH	(3) 3746	(3) Camshaft Exhaust Lobe Axial Position Signal 1	(3) I	(3) L3B

B339B Exhaust Camshaft Profile Sleeve Position Sensor 2 (L3B)



4581126

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

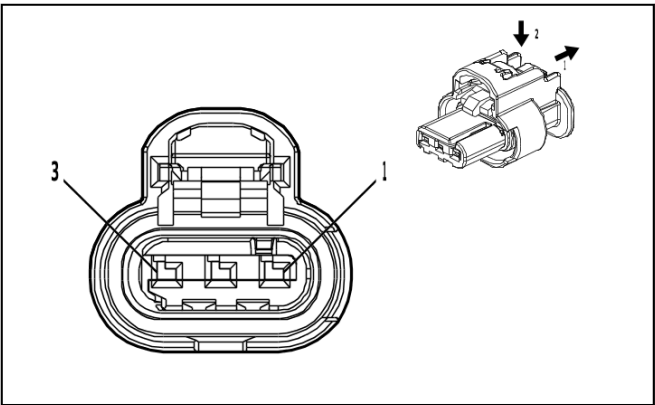
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B339B Exhaust Camshaft Profile Sleeve Position Sensor 2 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / RD	(1) 480	(1) Engine Control Vehicle Sensors 5 Volt Reference 1	(1) I	(1) L3B
(2) 2	(2) 0.5	(2) BK / GN	(2) 580	(2) Engine Control Sensors Low Reference 2	(2) I	(2) L3B
(3) 3	(3) 0.5	(3) YE / GN	(3) 3747	(3) Camshaft Exhaust Lobe Axial Position Signal 2	(3) I	(3) L3B

B345P Exhaust Pressure Differential Sensor - Particulate Filter



4581126

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

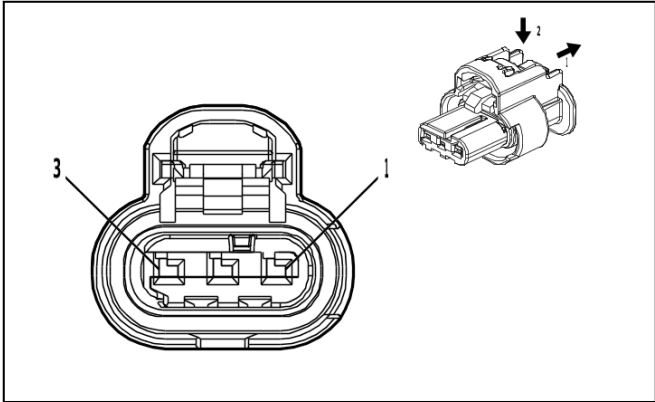
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B345P Exhaust Pressure Differential Sensor - Particulate Filter

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / RD	(1) 460	(1) Engine Control Sensors 5 Volt Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH / BN	(2) 2363	(2) Exhaust Pressure Sensor SENT 1 Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 548	(3) Engine Control Sensors Low Reference 1	(3) I	(3) —

B345R Exhaust Pressure Differential Sensor - Exhaust Gas Recirculation



4778903

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-2
- Service Connector: 86792095
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

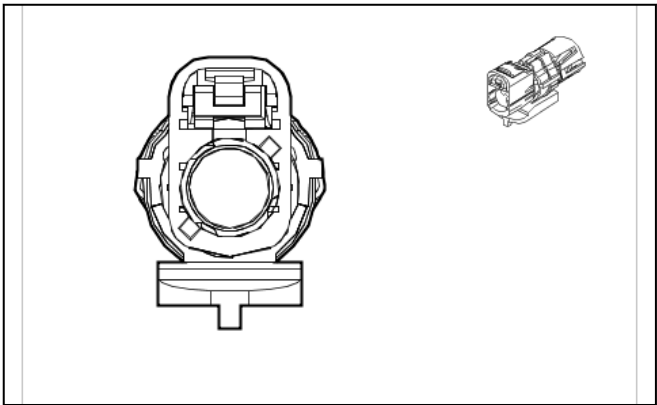
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B345R Exhaust Pressure Differential Sensor - Exhaust Gas Recirculation

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / RD	(1) 460	(1) Engine Control Sensors 5 Volt Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN	(2) 10478	(2) Low Pressure Exhaust Gas Recirculation Sensor SENT Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 548	(3) Engine Control Sensors Low Reference 1	(3) I	(3) —

B352 Video Display Inside Rearview Mirror Camera (DRZ)



5633894

Connector Part Information

- Harness Type: Inside Rearview Mirror Wiring Harness - Jumper COAX
- OEM Connector: 35187049
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type, Sealed(BU)

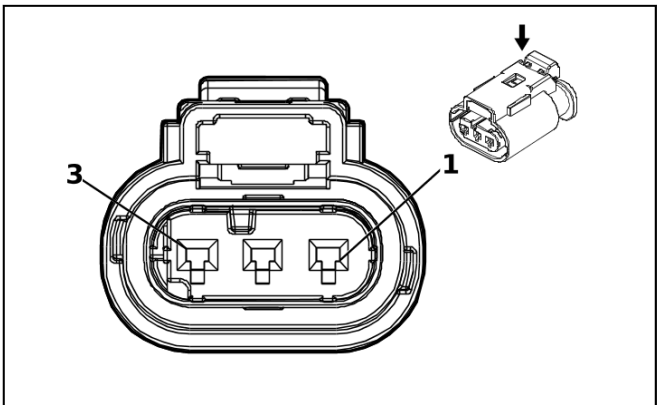
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

B352 Video Display Inside Rearview Mirror Camera (DRZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Full Display Mirror Rear Camera Coaxial Video Signal	I	—

B359 Exhaust Gas Temperature Sensor Module



5192187

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010343
- Service Connector: 84777453
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

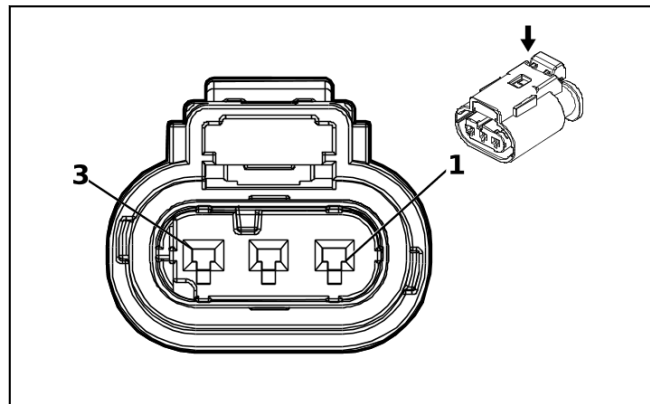
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B359 Exhaust Gas Temperature Sensor Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN	(1) 10289	(1) Exhaust Gas Temperature Sensor SENT 1 Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GN	(2) 580	(2) Engine Control Sensors Low Reference 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH / RD	(3) 480	(3) Engine Control Vehicle Sensors 5 Volt Reference 1	(3) I	(3) —

B359B Exhaust Gas Temperature Sensor Module 2



5192187

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010343
- Service Connector: 84777453
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

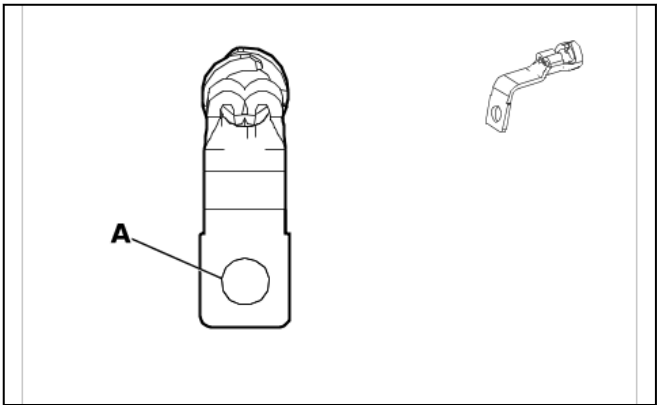
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

B359B Exhaust Gas Temperature Sensor Module 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU	(1) 10290	(1) Exhaust Gas Temperature Sensor SENT 2 Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GN	(2) 580	(2) Engine Control Sensors Low Reference 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH / RD	(3) 480	(3) Engine Control Vehicle Sensors 5 Volt Reference 1	(3) I	(3) —

C1 Battery



5525767

Connector Part Information

- Harness Type: Generator Battery Jumper Cable
- OEM Connector: 84386513
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

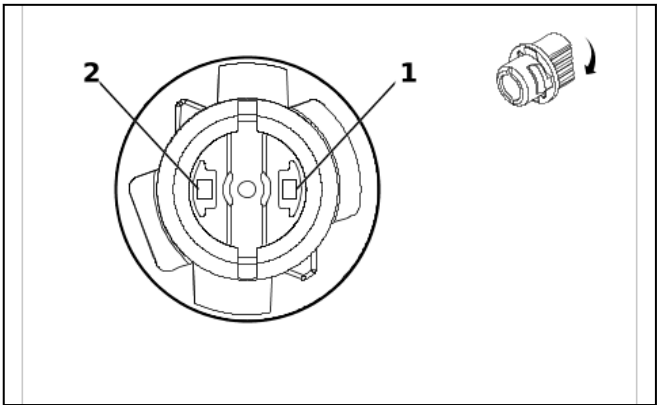
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

C1 Battery

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD / BU	42	Battery Positive Voltage	I	—

E2LRB Side Marker Bulb - Left Rear



6001446

Connector Part Information

- Harness Type: Rear Body Structure Stop Lamp
- OEM Connector: EEM0098
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F W2 Lamp Socket Series(GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E2LRB Side Marker Bulb - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN	(1) 6993	(1) Left Rear Park Lamp Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK	(2) 1951	(2) Signal Ground	(2) I	(2) —

E2RRB Side Marker Bulb - Right Rear**Connector Part Information**

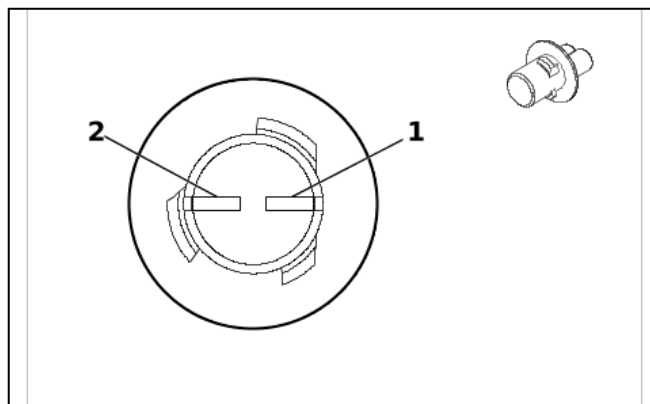
- Harness Type: Tail Lamp Wiring Harness - Right
- OEM Connector: EEM0098-LGY
- Service Connector: Service by Harness - See Part Catalog
- Description: Bulb Socket

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-3 (GY)	No Tool Required

E2RRB Side Marker Bulb - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN	(1) 6995	(1) Right Rear Park Lamp Control	(1) I	(1) —
	(1) 0.75	(1) BN	(1) 6995	(1) Right Rear Park Lamp Control		(1) —
(2) 2	(2) 0.75	(2) BK	(2) 1850	(2) Ground	(2) I	(2) —
	(2) 0.75	(2) BK / BK	(2) 1850	(2) Ground		(2) —

E5A Backup Bulb - Left

6157373

Connector Part Information

- Harness Type: Rear Body Structure Stop Lamp
- OEM Connector: EEM0323
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F Lamp Socket(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E5A Backup Bulb - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GN	(1) 24	(1) Backup Lamp Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK	(2) 1951	(2) Signal Ground	(2) I	(2) —

E5B Backup Bulb - Right**Connector Part Information**

- Harness Type: Tail Lamp Wiring Harness - Right
- OEM Connector: EEM0323-BLK
- Service Connector: Service by Harness - See Part Catalog
- Description: Bulb Socket

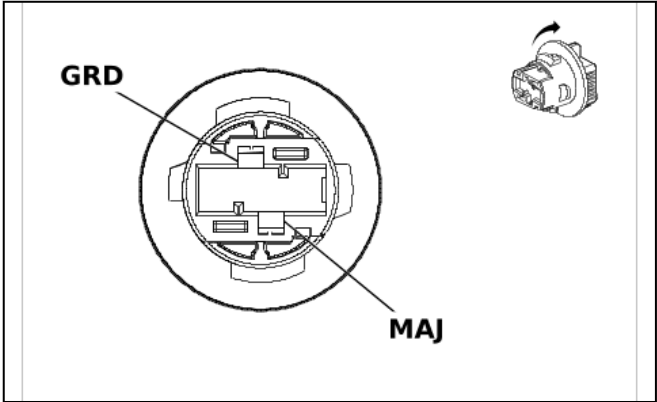
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-3 (GY)	No Tool Required

E5B Backup Bulb - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GN	(1) 24	(1) Backup Lamp Control	(1) I	(1) —
(2) 2	(2) 0.75 (2) 0.75	(2) BK (2) BK	(2) 1850 (2) 1850	(2) Ground (2) Ground	(2) I	(2) — (2) GF2/ GF3/ GF5/ GG0/ GPZ

E5SBL Stop and Turn Signal and Tail Lamp Bulb - Left Lower



6458333

Connector Part Information

- Harness Type: Rear Body Structure Stop Lamp
- OEM Connector: EEM1214
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F T20 Lamp Socket(BK)

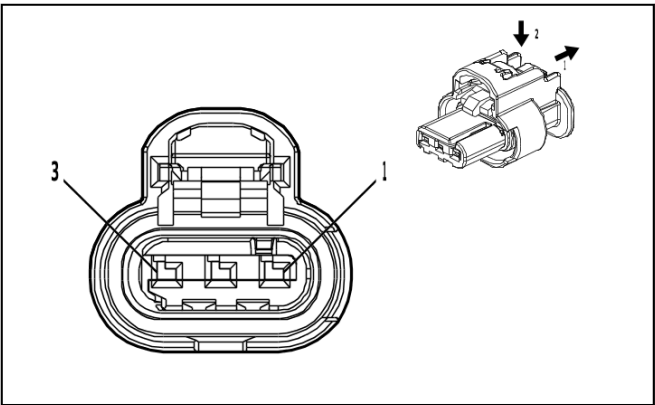
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E5SBL Stop and Turn Signal and Tail Lamp Bulb - Left Lower

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
GRD	—	—	—	Not Occupied	—	—
GRND	0.75	BK	1951	Signal Ground	I	—
MAJ	0.75	GN	1334	Left Rear Turn Signal Lamp Control 2	I	—
MIN	0.75	BN	6993	Left Rear Park Lamp Control	I	—

E6A High Mount Stop and Cargo Lamp



4581126

Connector Part Information

- Harness Type: Inside Rearview Mirror Wiring Harness - Jumper
- OEM Connector: 1-2296695-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

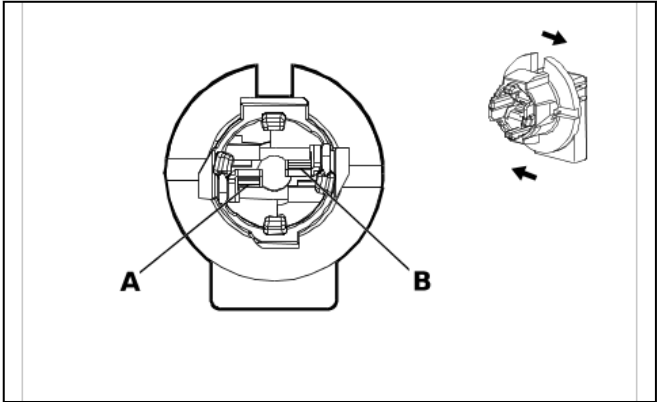
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

E6A High Mount Stop and Cargo Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / VT	(1) 1430	(1) Exterior Courtesy Lamp Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / YE	(2) 820	(2) Center High Mounted Stop Lamp Supply Voltage	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK	(3) 1050	(3) Ground	(3) I	(3) —

E6B High Mount Stop Lamp Bulb



5913172

Connector Part Information

- Harness Type: High Mount Stop Lamp Wiring Harness
- OEM Connector: ZCF-02075-01
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F Socket(GY)

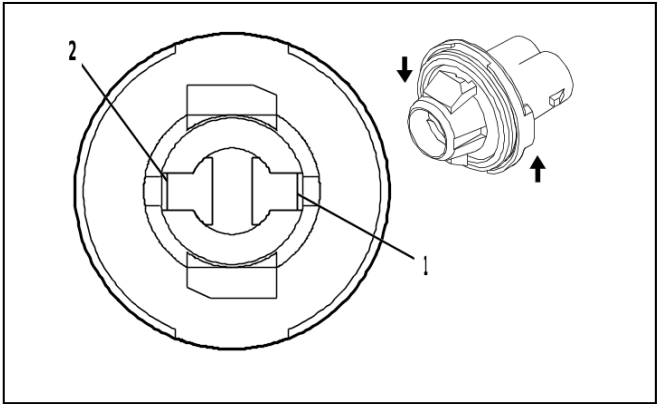
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E6B High Mount Stop Lamp Bulb

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	18	RD	1053	Center High Mounted Stop Lamp Control 3	I	—
B	18	BK	1050	Ground	I	—

E7L Rear License Plate Lamp - Left



5153536

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 15324946
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F Lamp Socket Wedge Base, Type W-2(D-GY)

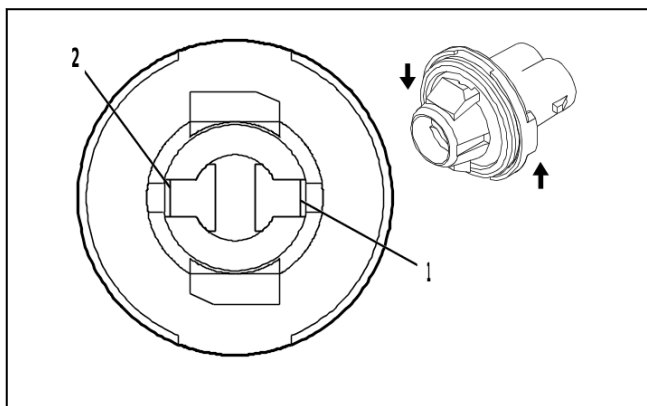
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E7L Rear License Plate Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / YE	(1) 6846	(1) Rear License Plate Lamp Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1850	(2) Ground	(2) I	(2) —

E7R Rear License Plate Lamp - Right



5153536

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 15324946
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F Lamp Socket Wedge Base, Type W-2(D-GY)

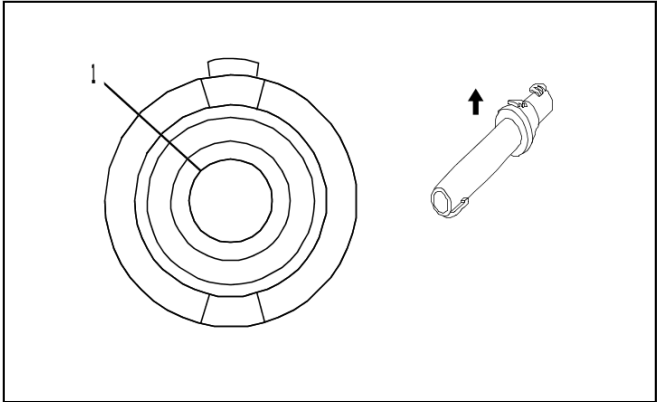
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E7R Rear License Plate Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / YE	(1) 6846	(1) Rear License Plate Lamp Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1850	(2) Ground	(2) I	(2) —

E12A Glow Plug 1



2231591

- Connector Part Information**
- Harness Type: Diesel Glow Plug Wiring Harness
 - OEM Connector: 284818-1
 - Service Connector: Service by Cable Assembly - See Part Catalog
 - Description: 1-Way F 4.0 Series(BK)

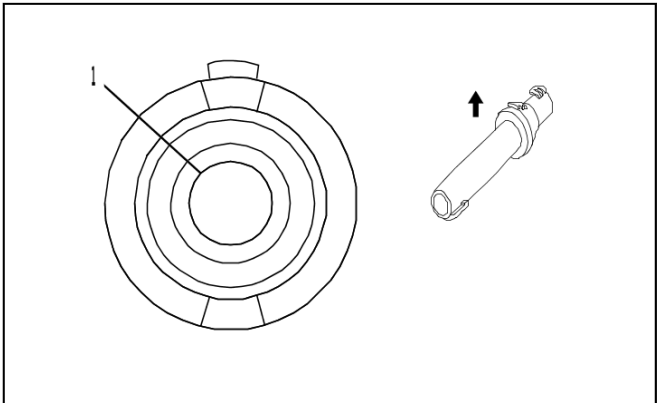
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E12A Glow Plug 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY / RD	(1) 1581	(1) Glow Plug 1 Control	(1) I	(1) —

E12B Glow Plug 2



2231591

- Connector Part Information**
- Harness Type: Diesel Glow Plug Wiring Harness
 - OEM Connector: 284818-1
 - Service Connector: Service by Cable Assembly - See Part Catalog
 - Description: 1-Way F 4.0 Series(BK)

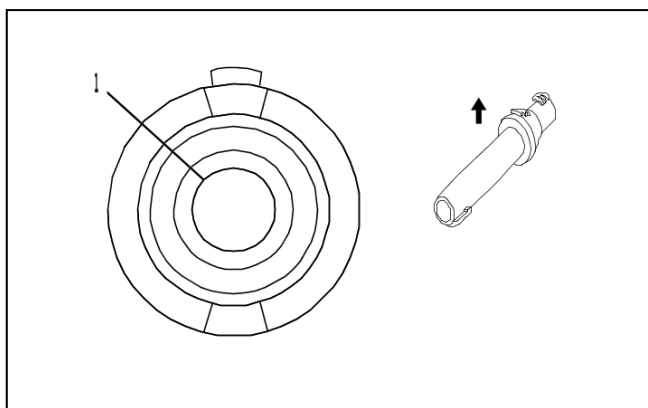
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E12B Glow Plug 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY / BK	(1) 1582	(1) Glow Plug 2 Control	(1) I	(1) —

E12C Glow Plug 3



2231591

Connector Part Information

- Harness Type: Diesel Glow Plug Wiring Harness
- OEM Connector: 284818-1
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way F 4.0 Series(BK)

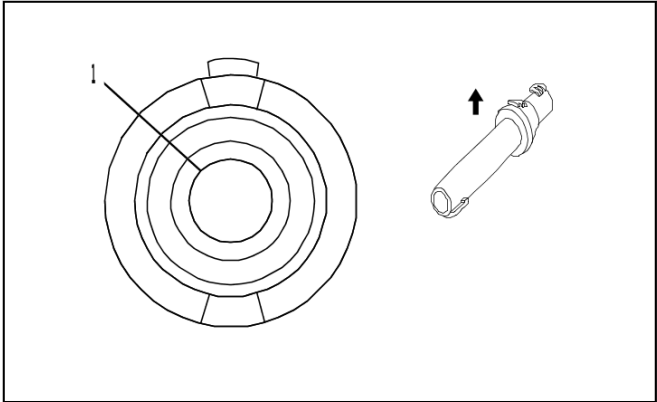
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E12C Glow Plug 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY / GN	(1) 1583	(1) Glow Plug 3 Control	(1) I	(1) —

E12D Glow Plug 4



2231591

Connector Part Information

- Harness Type: Diesel Glow Plug Wiring Harness
- OEM Connector: 284818-1
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way F 4.0 Series(BK)

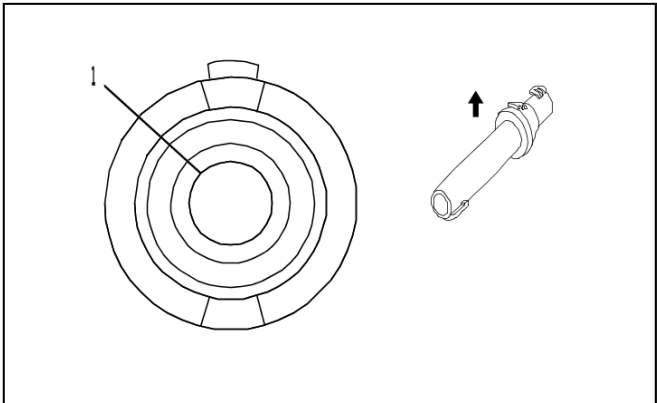
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E12D Glow Plug 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY / YE	(1) 1584	(1) Glow Plug 4 Control	(1) I	(1) —

E12E Glow Plug 5



2231591

Connector Part Information

- Harness Type: Diesel Glow Plug Wiring Harness
- OEM Connector: 284818-1
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way F 4.0 Series(BK)

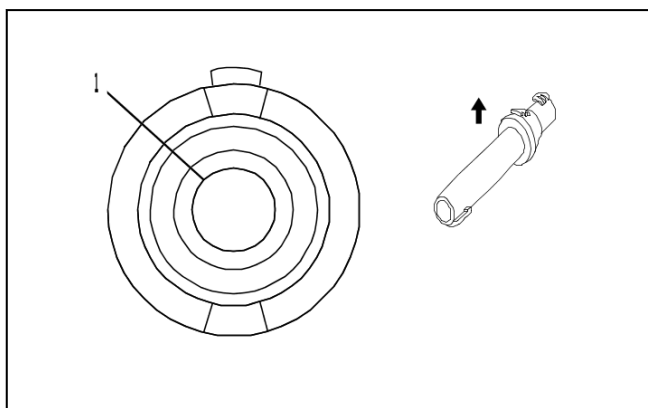
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E12E Glow Plug 5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY / WH	(1) 1585	(1) Glow Plug 5 Control	(1) I	(1) —

E12F Glow Plug 6



2231591

Connector Part Information

- Harness Type: Diesel Glow Plug Wiring Harness
- OEM Connector: 284818-1
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way F 4.0 Series(BK)

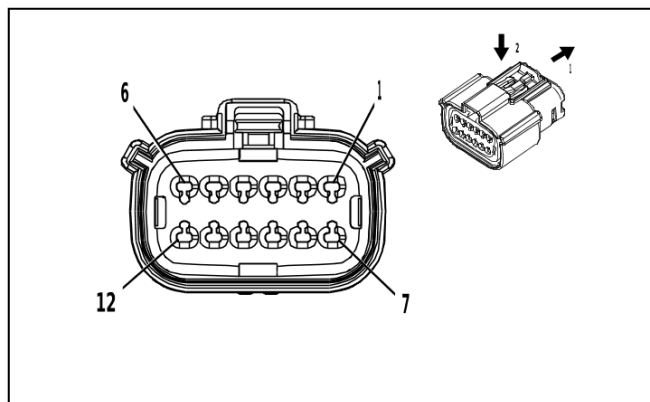
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E12F Glow Plug 6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY	(1) 1586	(1) Glow Plug 6 Control	(1) I	(1) —

E13LA Front Headlamp - Left



2871860

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33472-1266
- Service Connector: 19352907
- Description: 12-Way F 1.5 MX Series, Sealed(BK)

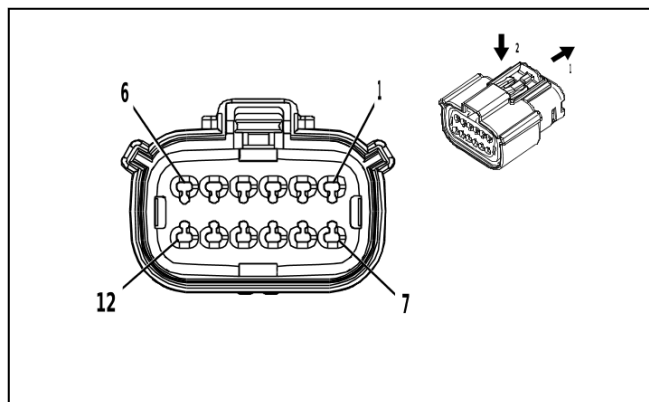
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217

E13LA Front Headlamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 150	(1) Ground	(1) I	(1) —
(2) 2	(2) 1.5	(2) RD / WH	(2) 640	(2) Battery Positive Voltage	(2) I	(2) —
(3) 3	(3) 0.75	(3) YE	(3) 712	(3) Left Headlamp Low Beam Control	(3) I	(3) —
(4) 4	(4) 0.75	(4) WH	(4) 711	(4) Left Headlamp High Beam Control	(4) I	(4) —
(5) 5	(5) 0.35	(5) GY / BU	(5) 7538	(5) Left Front DRL Control	(5) I	(5) —
(6) 6	(6) 0.5	(6) WH / YE	(6) 1254	(6) Left Front Park Lamp Control	(6) I	(6) —
(7) 7	(7) 0.5	(7) BU / WH	(7) 1314	(7) Left Front Turn Signal Lamp Control	(7) I	(7) —
(8) 8	(8) 0.35	(8) VT / BK	(8) 6568	(8) Front Turn Signal Lamp Feedback Signal	(8) I	(8) —
(9) 9	(9) 0.5	(9) YE / GN	(9) 2024	(9) Animation Lighting Control	(9) I	(9) —
(10) 10	(10) 0.5	(10) GN / VT	(10) 1315	(10) Right Front Turn Signal Lamp Control	(10) I	(10) —
11 - 12	—	—	—	Not Occupied	—	—

E13RA Front Headlamp - Right



2871860

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33472-1266
- Service Connector: 19352907
- Description: 12-Way F 1.5 MX Series, Sealed(BK)

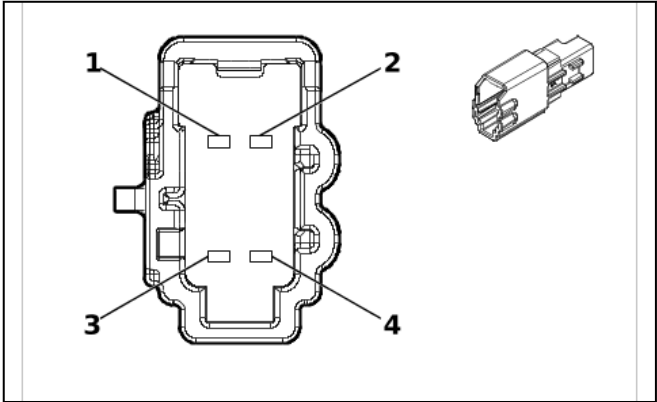
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217

E13RA Front Headlamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75 (1) 1	(1) BK (1) BK	(1) 650 (1) 650	(1) Ground (1) Ground	(1) I (1) I	(1) (GF2/ GF5/ GPZ) (1) (- GF2- GF5- GPZ
(2) 2	(2) 1.5	(2) RD / YE	(2) 740	(2) Battery Positive Voltage	(2) I	(2) —
(3) 3	(3) 1	(3) YE	(3) 312	(3) Right Headlamp Low Beam Control	(3) I	(3) —
(4) 4	(4) 0.75	(4) WH	(4) 311	(4) Right Headlamp High Beam Control	(4) I	(4) —
(5) 5	(5) 0.35	(5) BU / BN	(5) 7539	(5) Right Front DRL Control	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / GN	(6) 1253	(6) Right Front Park Lamp Control	(6) I	(6) —
(7) 7	(7) 0.5	(7) GN / VT	(7) 1315	(7) Right Front Turn Signal Lamp Control	(7) I	(7) —
(8) 8	(8) 0.35	(8) WH / YE	(8) 7545	(8) Right Front Turn Signal Lamp Feedback Signal	(8) I	(8) —
(9) 9	(9) 0.5	(9) YE / GN	(9) 2024	(9) Animation Lighting Control	(9) I	(9) —
(10) 10	(10) 0.5	(10) BU / WH	(10) 1314	(10) Left Front Turn Signal Lamp Control	(10) I	(10) —
11 - 12	—	—	—	Not Occupied	—	—

E14A Front Seat Back Heater - Driver (KA1)



5423974

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 6098-9049
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(GY)

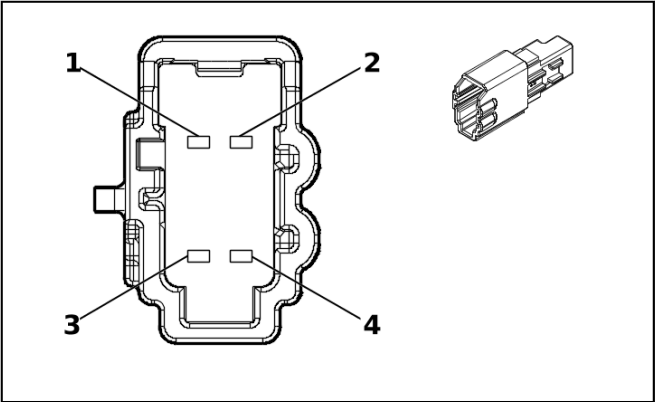
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

E14A Front Seat Back Heater - Driver (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN	(1) 2432	(1) Driver Seat Back Heating Element Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 2425	(2) Driver Seat Back Heating Temperature Sensor Signal	(2) II	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 2080	(3) Driver Heated Seat Thermistor Low Reference	(3) II	(3) —
(4) 4	(4) 0.75	(4) BN / BK	(4) 2078	(4) Driver Seat Heating Element Low Reference	(4) I	(4) —

E14B Front Seat Cushion Heater - Driver (KA1)



5360963

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 6098-9046
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(BK)

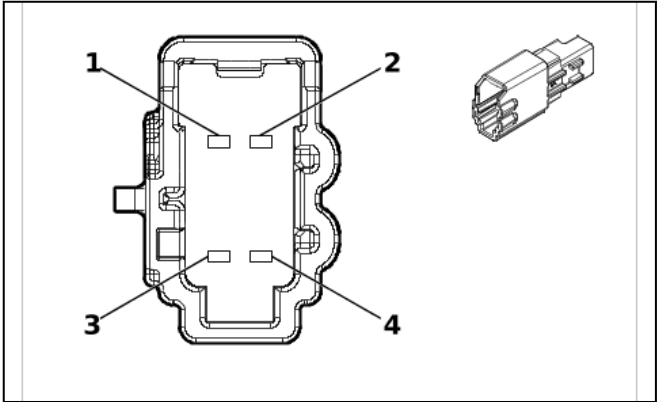
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

E14B Front Seat Cushion Heater - Driver (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / VT	(1) 2077	(1) Driver Seat Heating Element Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / GY	(2) 2079	(2) Driver Seat Heating Temperature Sensor Signal	(2) II	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 2080	(3) Driver Heated Seat Thermistor Low Reference	(3) II	(3) —
(4) 4	(4) 0.75	(4) BN / BK	(4) 2078	(4) Driver Seat Heating Element Low Reference	(4) I	(4) —

E14C Front Seat Back Heater - Passenger (KA1)



5423974

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 6098-9049
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(GY)

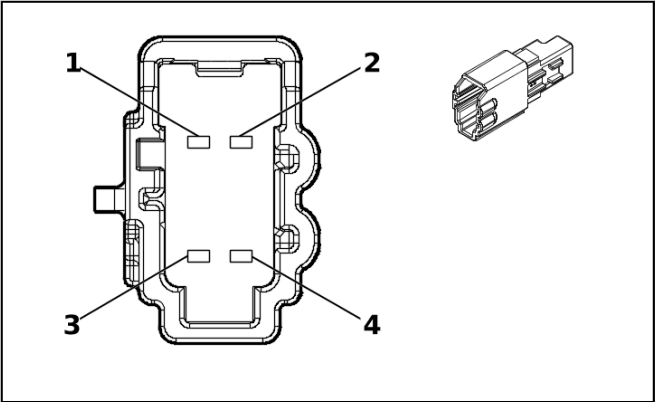
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

E14C Front Seat Back Heater - Passenger (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) WH / BN	(1) 2481	(1) Passenger Seat Back Heating Element Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH / BU	(2) 2436	(2) Passenger Seat Back Heating Temperature Sensor Signal	(2) II	(2) —
(3) 3	(3) 0.5	(3) BK / GN	(3) 2482	(3) Passenger Heated Back Thermistor Low Reference	(3) II	(3) —
(4) 4	(4) 0.75	(4) GY / BK	(4) 2480	(4) Passenger Seat Heating Element Low Reference	(4) I	(4) —

E14D Front Seat Cushion Heater - Passenger (KA1)



5360963

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 6098-9046
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(BK)

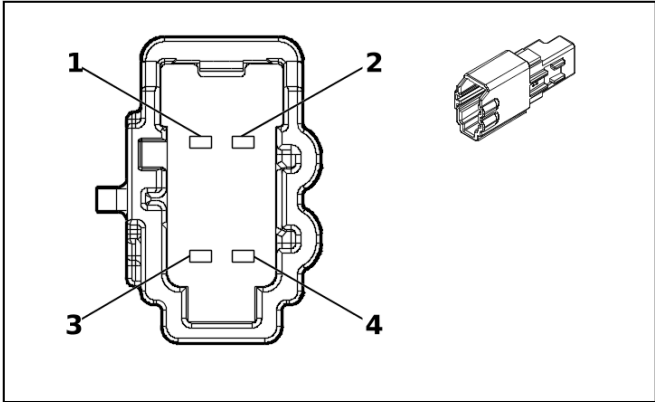
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

E14D Front Seat Cushion Heater - Passenger (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / BU	(1) 2479	(1) Passenger Seat Heating Element Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH / GY	(2) 2434	(2) Passenger Seat Heating Temperature Sensor Signal	(2) II	(2) —
(3) 3	(3) 0.5	(3) BK / GY	(3) 2435	(3) Passenger Heated Seat Thermistor Low Reference	(3) II	(3) —
(4) 4	(4) 0.75	(4) GY / BK	(4) 2480	(4) Passenger Seat Heating Element Low Reference	(4) I	(4) —

E14F Rear Seat Cushion Heater - Left Rear (KA6)



5360963

Connector Part Information

- Harness Type: Rear Seat Heater Control Wiring Harness
- OEM Connector: 6098-9046
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(BK)

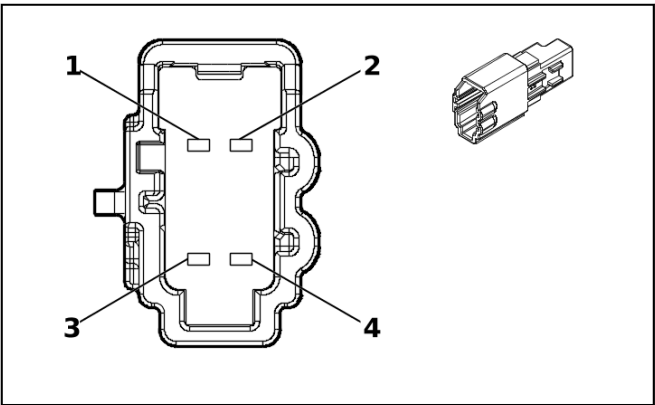
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

E14F Rear Seat Cushion Heater - Left Rear (KA6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GY	(1) 2294	(1) Left Rear Seat Cushion Heating Element Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) WH / BU	(2) 7047	(2) Left Rear Seat Cushion Temperature Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.75	(3) BU / WH	(3) 7048	(3) Left Rear Cushion Thermistor Feedback Signal	(3) I	(3) —
(4) 4	(4) 0.75	(4) BN / BK	(4) 2295	(4) Left Rear Seat Cushion Heating Element Low Reference	(4) I	(4) —

E14H Rear Seat Cushion Heater - Right Rear (KA6)



5360963

Connector Part Information

- Harness Type: Rear Seat Heater Control Wiring Harness
- OEM Connector: 6098-9046
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(BK)

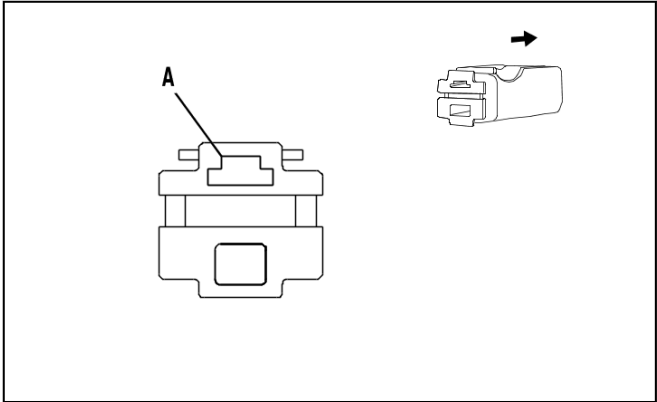
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

E14H Rear Seat Cushion Heater - Right Rear (KA6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GN / BN	(1) 2296	(1) Right Rear Seat Cushion Heating Element Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) YE / WH	(2) 7053	(2) Right Rear Seat Cushion Temperature Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.75	(3) WH / BK	(3) 7054	(3) Right Rear Cushion Thermistor Feedback Signal	(3) I	(3) —
(4) 4	(4) 0.75	(4) GN / BK	(4) 2297	(4) Right Rear Seat Cushion Heating Element Low Reference	(4) I	(4) —

E18 Rear Window Defogger Grid X1



4248834

- Connector Part Information**
- Harness Type: Body Wiring Harness
 - OEM Connector: 7123-5014-30
 - Service Connector: 19367647
 - Description: 1-Way F 250 Series(BK)

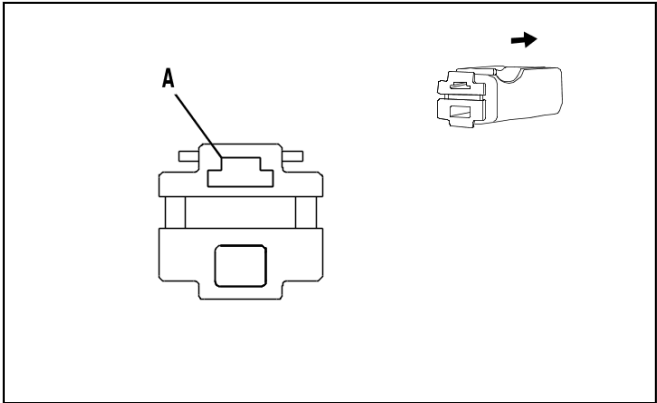
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required

E18 Rear Window Defogger Grid X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.5	BN / VT	293	Rear Defogger Grid Control	I	—

E18 Rear Window Defogger Grid X2



4248834

- Connector Part Information**
- Harness Type: Body Wiring Harness
 - OEM Connector: 7123-5014-30
 - Service Connector: 19367647
 - Description: 1-Way F 250 Series(BK)

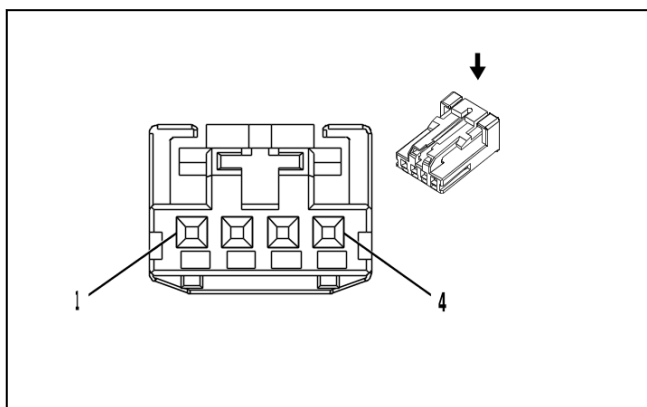
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required

E18 Rear Window Defogger Grid X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.5	BK	1450	Ground	I	—
	2.5	BN / VT	293	Rear Defogger Grid Control		—

E28 Front Floor Console Compartment Lamp



2717162

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 1-936119-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

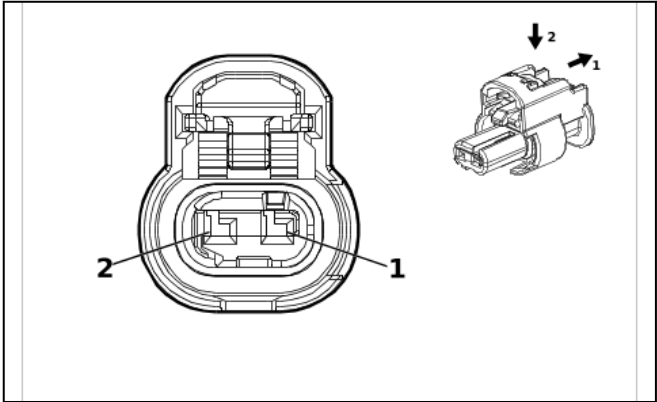
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

E28 Front Floor Console Compartment Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK	(1) 1451	(1) Signal Ground	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) GN / VT	(3) 4786	(3) Dome/Reading Lamp Enable Signal	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

E29LF Front Fog Lamp - Left (T3U - VHU)



4649903

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 1-2296694-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

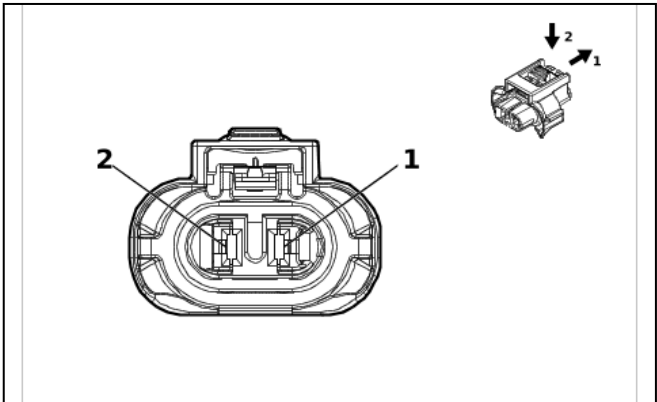
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

E29LF Front Fog Lamp - Left (T3U - VHU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 650	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / GY	(2) 5061	(2) Left Front Fog Lamp Control	(2) I	(2) —

E29LF Front Fog Lamp - Left (T3U & VHU)



6543452

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 33342774
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 APEX Series, Sealed(BK)

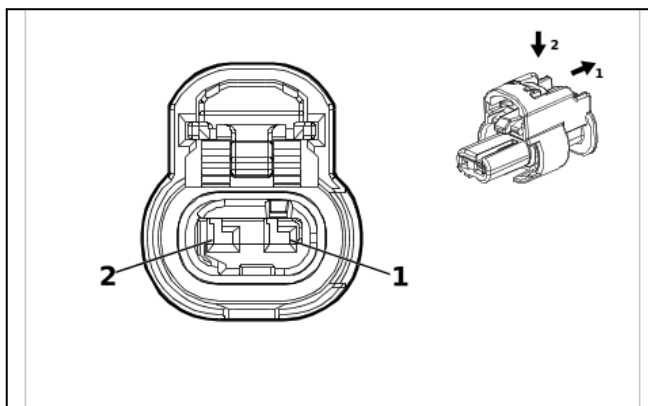
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

E29LF Front Fog Lamp - Left (T3U & VHU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / GY	(1) 5061	(1) Left Front Fog Lamp Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 650	(2) Ground	(2) I	(2) —

E29RF Front Fog Lamp - Right (T3U - VHU)



4649903

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 1-2296694-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

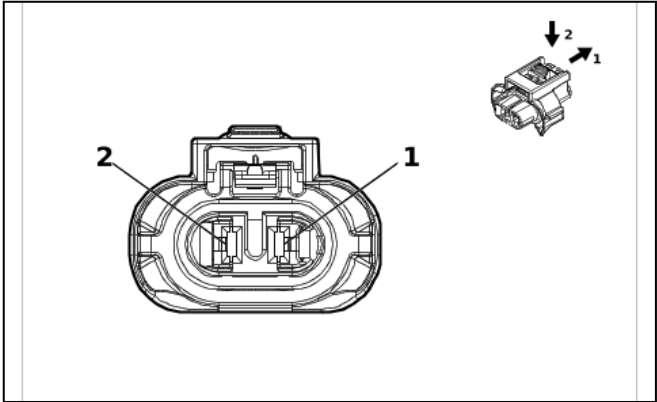
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

E29RF Front Fog Lamp - Right (T3U - VHU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 650	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 5062	(2) Right Front Fog Lamp Control	(2) I	(2) —

E29RF Front Fog Lamp - Right (T3U & VHU)



6543452

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 33342774
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 APEX Series, Sealed(BK)

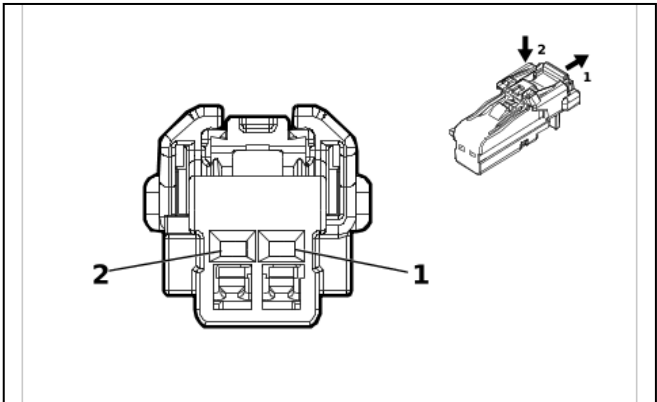
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

E29RF Front Fog Lamp - Right (T3U & VHU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / GN	(1) 5062	(1) Right Front Fog Lamp Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 650	(2) Ground	(2) I	(2) —

E31L Sunshade Mirror Lamp - Left



5377746

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 35327306
- Service Connector: 84867147
- Description: 2-Way F 1.2 MCON Series(BN)

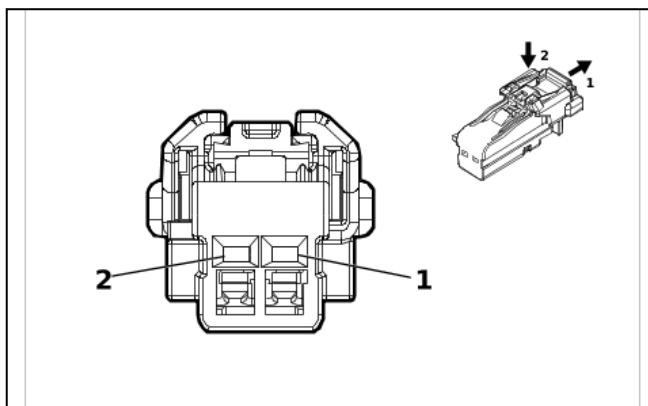
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

E31L Sunshade Mirror Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) BU / GN	(1) 4785	(1) Interior Lamp Overhead Enable Signal	(1) I	(1) —
(2) 2	(2) —	(2) BK	(2) 1050	(2) Ground	(2) I	(2) —

E31R Sunshade Mirror Lamp - Right



5377746

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 35327306
- Service Connector: 84867147
- Description: 2-Way F 1.2 MCON Series(BN)

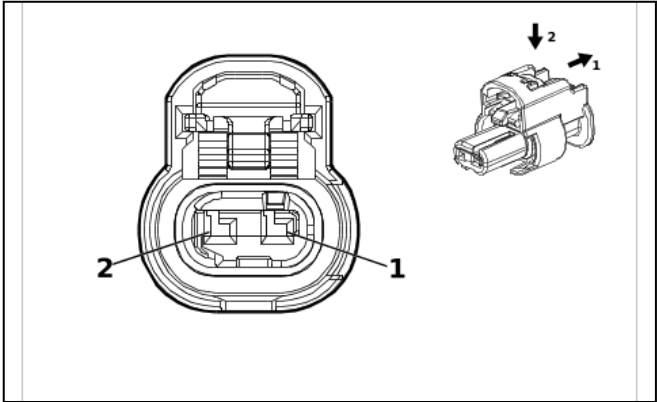
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

E31R Sunshade Mirror Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) GY / WH	(1) 2369	(1) Interior Lamp Overhead 2 Enable Signal	(1) I	(1) —
(2) 2	(2) —	(2) BK	(2) 1050	(2) Ground	(2) I	(2) —

E33L Cargo Lamp - Left



4649903

Connector Part Information

- Harness Type: Rear Body Structure Stop Lamp
- OEM Connector: 1-2296694-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

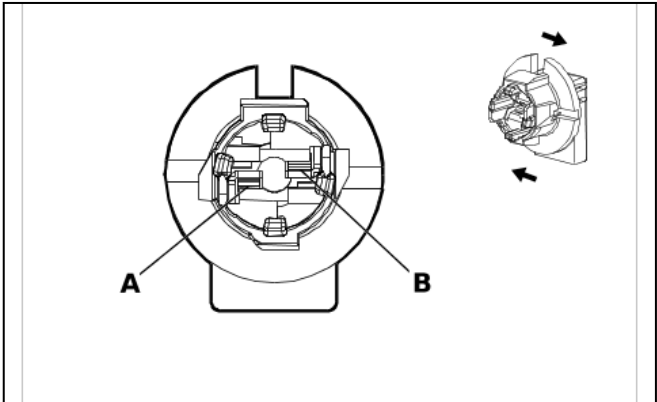
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

E33L Cargo Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU	(1) 7762	(1) Cargo Lamp Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK	(2) 1951	(2) Signal Ground	(2) I	(2) —

E33LB Cargo Box Lamp Bulb - Left



5913172

Connector Part Information

- Harness Type: High Mount Stop Lamp Wiring Harness
- OEM Connector: ZCF-02075-01
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F Socket(GY)

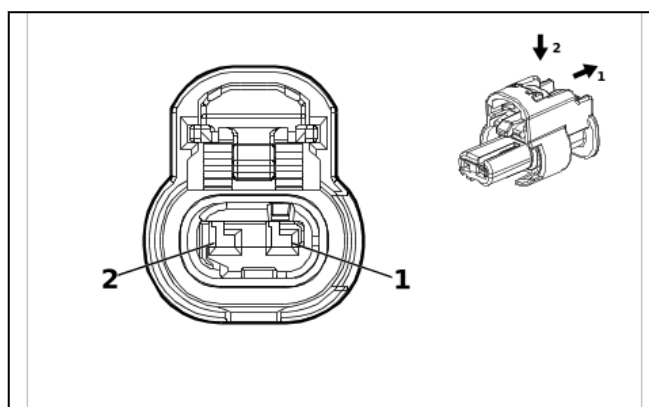
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E33LB Cargo Box Lamp Bulb - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	18	BN	1430	Exterior Courtesy Lamp Control	I	—
B	18	BK	1050	Ground	I	—

E33R Cargo Lamp - Right (UF2)



4649903

Connector Part Information

- Harness Type: Tail Lamp Wiring Harness - Right
- OEM Connector: 13512365
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

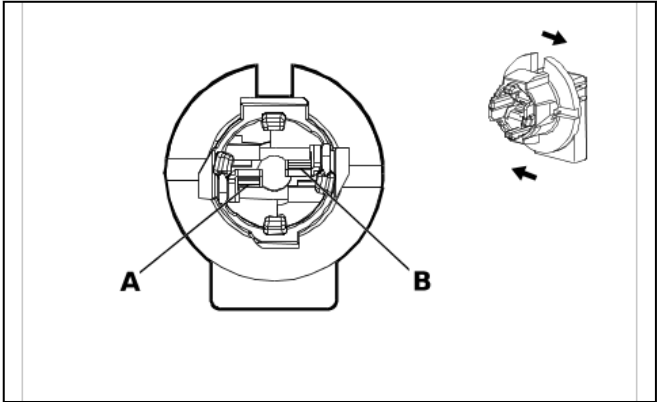
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

E33R Cargo Lamp - Right (UF2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU	(1) 7762	(1) Cargo Lamp Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK	(2) 1850	(2) Ground	(2) I	(2) —

E33RB Cargo Box Lamp Bulb - Right



5913172

Connector Part Information

- Harness Type: High Mount Stop Lamp Wiring Harness
- OEM Connector: ZCF-02075-01
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F Socket(GY)

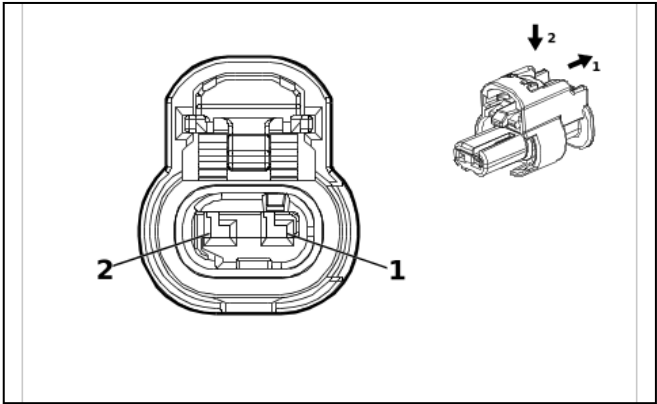
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E33RB Cargo Box Lamp Bulb - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	18	BK	1050	Ground	I	—
B	18	BN	1430	Exterior Courtesy Lamp Control	I	—

E33TH Rear Closure Auxiliary Signal Lamp (QT5)



4649903

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 1-2296694-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

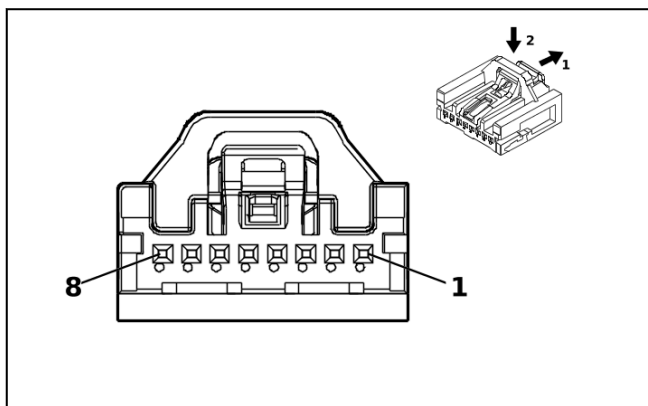
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

E33TH Rear Closure Auxiliary Signal Lamp (QT5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / VT	(1) 1430	(1) Exterior Courtesy Lamp Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1850	(2) Ground	(2) I	(2) —

E37SMC Rear Seat Position Center Reading and Courtesy Lamp



5200269

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 35068228
- Service Connector: 84769201
- Description: 8-Way F Mini 50 Series(BK)

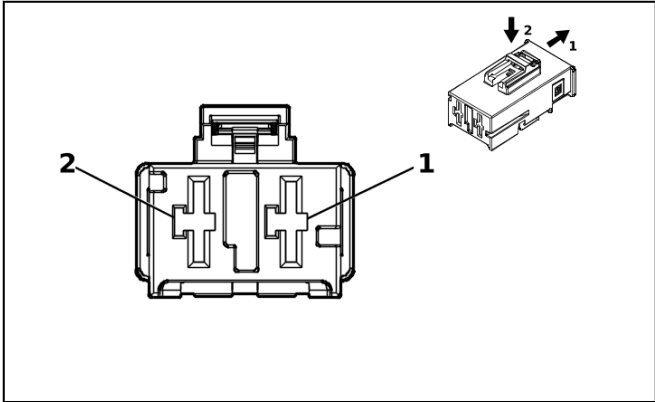
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

E37SMC Rear Seat Position Center Reading and Courtesy Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GN / YE	(1) 2903	(1) Row 2 Dome Reading Lamp Interior Lamp Control	(1) I	(1) —
(2) 2	(2) 0.35	(2) BN / BU	(2) 2905	(2) Row 2 Dome Reading Lamp 2 Interior Lamp Control	(2) I	(2) —
(3) 3	(3) 0.35	(3) BK	(3) 1050	(3) Ground	(3) I	(3) —
(4) 4	(4) 0.35	(4) WH / BN	(4) 2904	(4) Row 2 Dome Reading Lamp Switch Signal	(4) I	(4) —
(5) 5	(5) 0.35	(5) VT / GY	(5) 2906	(5) Row 2 Dome Reading Lamp 2 Switch Signal	(5) I	(5) —
6 - 8	—	—	—	Not Occupied	—	—

E40 Air Heater X1 (C32)



5187955

Connector Part Information

- Harness Type: Auxiliary Heater Wiring Harness
- OEM Connector: 13525311
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 9.5 MCON-LL Series(BK)

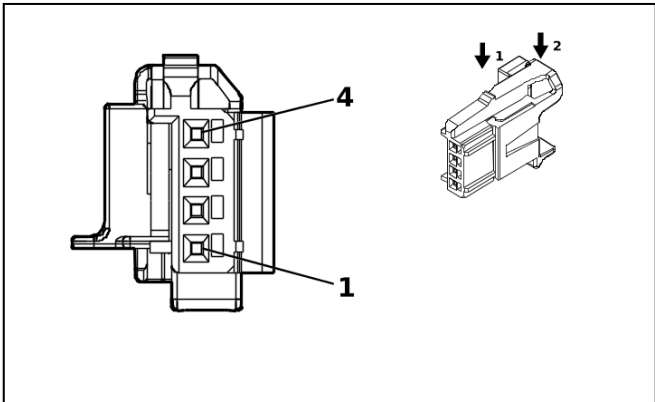
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-22 (RD)	No Tool Required

E40 Air Heater X1 (C32)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 10	(2) RD / GY	(2) 642	(2) Battery Positive Voltage	(2) I	(2) —

E40 Air Heater X2 (C32)



5191926

Connector Part Information

- Harness Type: Heater Wiring Harness
- OEM Connector: 2294399-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

E40 Air Heater X2 (C32)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.35	(2) BN / VT	(2) 339	(2) Run/Crank Ignition 1 Voltage	(2) I	(2) —
(3) 3	(3) 0.35	(3) BU	(3) 2852	(3) Body Control Module LIN Bus 6	(3) I	(3) —
(4) 4	(4) 0.35	(4) BK	(4) 1050	(4) Ground	(4) I	(4) —

E40 Air Heater X3 (C32)

Connector Part Information

- Harness Type: Auxiliary Heater Wiring Harness
- OEM Connector: 20000001
- Service Connector: Service by Harness - See Part Catalog
- Description: 1-Way

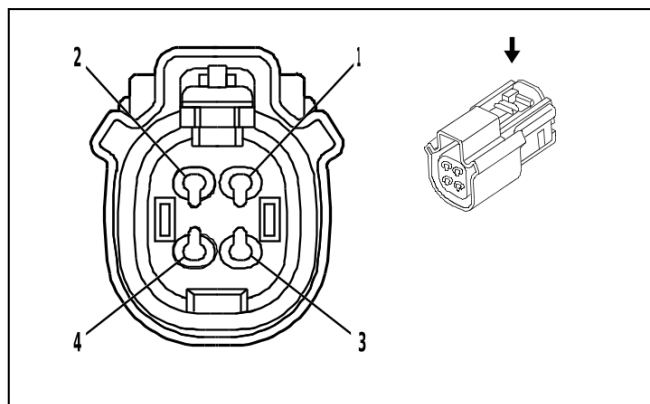
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

E40 Air Heater X3 (C32)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 10	(1) BK	(1) 750	(1) Ground	(1) I	(1) —

E42L Rear Body Structure Stop Lamp - Left (GF4 / GF9 / GFC / GFD / GRZ)



1960031

Connector Part Information

- Harness Type: Rear Body Structure Stop Lamp
- OEM Connector: 33472-4006
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.5 MX Series, Sealed(BK)

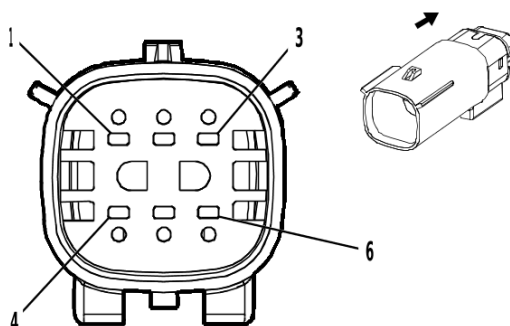
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

E42L Rear Body Structure Stop Lamp - Left (GF4 / GF9 / GFC / GFD / GRZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN	(1) 6993	(1) Left Rear Park Lamp Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) RD	(2) 6567	(2) Rear Turn Signal Lamp Feedback Signal	(2) I	(2) —
(3) 3	(3) 0.75	(3) GN	(3) 1334	(3) Left Rear Turn Signal Lamp Control 2	(3) I	(3) —
(4) 4	(4) 0.75	(4) BK	(4) 1951	(4) Signal Ground	(4) I	(4) —

E42L Rear Body Structure Stop Lamp - Left - Regular Cab



1986159

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 33482-3601
- Service Connector: 19367742
- Description: 6-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

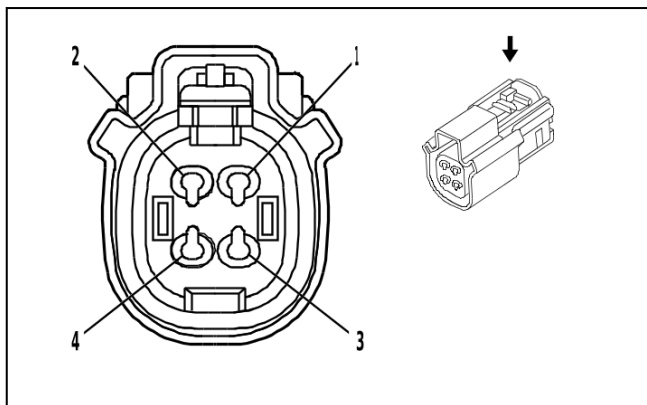
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-3 (GY)	No Tool Required

E42L Rear Body Structure Stop Lamp - Left - Regular Cab

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / BU	(1) 6993	(1) Left Rear Park Lamp Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) WH / VT	(2) 6567	(2) Rear Turn Signal Lamp Feedback Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) GY / BU	(3) 7762	(3) Cargo Lamp Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) GN / WH	(4) 24	(4) Backup Lamp Control	(4) I	(4) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(5) 5	(5) 0.75	(5) BU / WH	(5) 1334	(5) Left Rear Turn Signal Lamp Control 2	(5) I	(5) —
(6) 6	(6) 0.75	(6) BK	(6) 1951	(6) Signal Ground	(6) I	(6) —

E42R Rear Body Structure Stop Lamp - Right (GF4 / GF9 / GFC / GFD / GRZ)



1960031

Connector Part Information

- Harness Type: Tail Lamp Wiring Harness - Right
- OEM Connector: 33472-4006
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.5 MX Series, Sealed(BK)

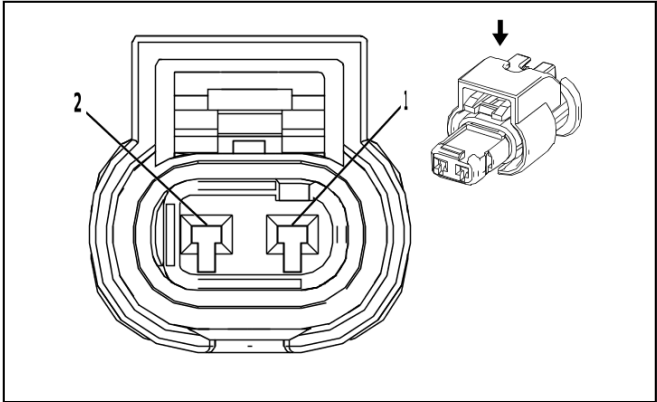
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

E42R Rear Body Structure Stop Lamp - Right (GF4 / GF9 / GFC / GFD / GRZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / BN	(1) 6995	(1) Right Rear Park Lamp Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) RD	(2) 7544	(2) Right Rear Turn Signal Lamp Feedback Signal	(2) I	(2) —
(3) 3	(3) 0.75	(3) GN	(3) 1335	(3) Right Rear Turn Signal Lamp Control 2	(3) I	(3) —
(4) 4	(4) 0.75	(4) BK	(4) 1850	(4) Ground	(4) I	(4) —

E52 Reductant Heater 2 - Injector Supply Pipe (LZ0)



2474752

Connector Part Information

- Harness Type: Emission Reduction Fluid Tank Reservoir Wire Harness
- OEM Connector: 13586143
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

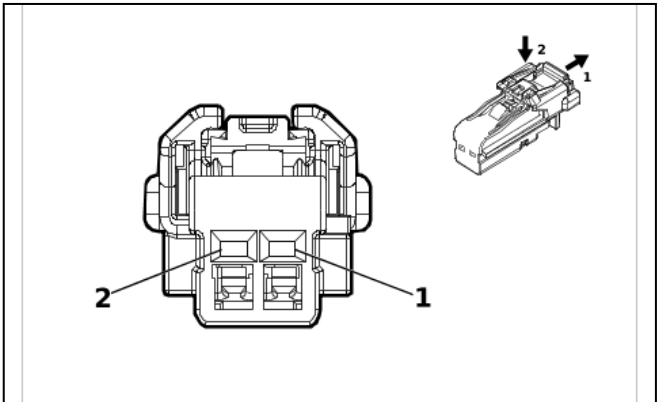
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

E52 Reductant Heater 2 - Injector Supply Pipe (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) WH	(1) 3199	(1) Diesel Exhaust Fluid Pressure Line Heater Control	(1) I	(1) —
(2) 2	(2) 1	(2) BN	(2) 4319	(2) Diesel Exhaust Fluid Line Heater Low Control	(2) I	(2) —

E63D Front Side Door Inside Handle Illumination Lamp - Left



4115691

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Driver
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

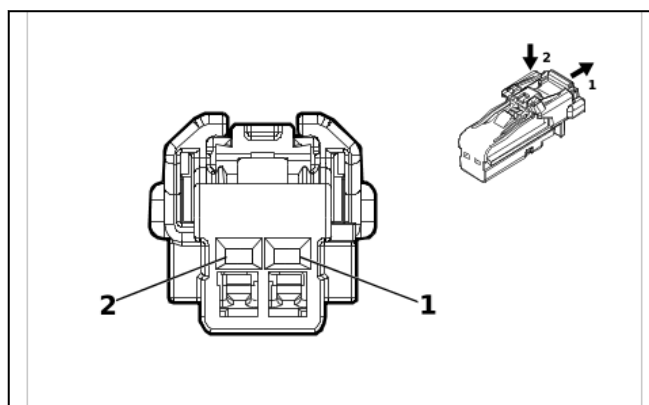
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

E63D Front Side Door Inside Handle Illumination Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / VT	(1) 2767	(1) LED Ambient Lighting Control Left Front Door	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1550	(2) Ground	(2) I	(2) —

E63P Front Side Door Inside Handle Illumination Lamp - Right



4115691

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Passenger
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

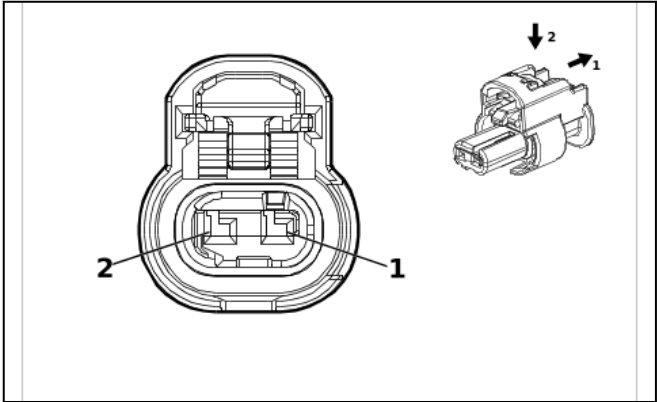
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

E63P Front Side Door Inside Handle Illumination Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / BN	(1) 2768	(1) LED Ambient Lighting Control Right Front Door	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1350	(2) Ground	(2) I	(2) —

E135L Front Bumper Fascia Auxiliary Signal Lamp - Left (GRZ)



4649903

Connector Part Information

- Harness Type: Front View Camera Switch Wiring Harness
- OEM Connector: 1-2296694-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

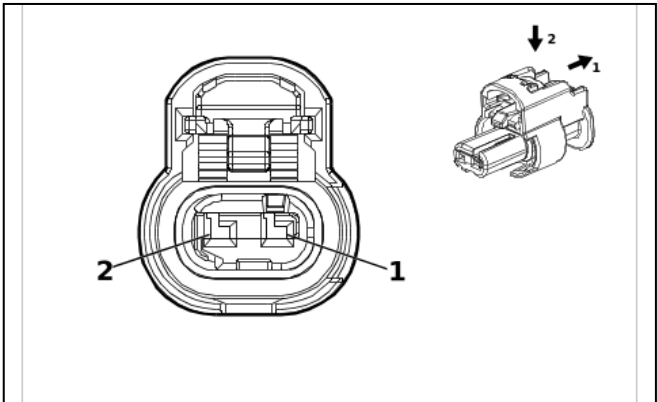
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

E135L Front Bumper Fascia Auxiliary Signal Lamp - Left (GRZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) BK	(1) 650	(1) Ground	(1) I	(1) —
(2) 2	(2) 1.5	(2) BN / GN	(2) 4246	(2) Identification Lamp Control	(2) I	(2) —

E135R Front Bumper Fascia Auxiliary Signal Lamp - Right (GRZ)



4649903

Connector Part Information

- Harness Type: Front View Camera Switch Wiring Harness
- OEM Connector: 1-2296694-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

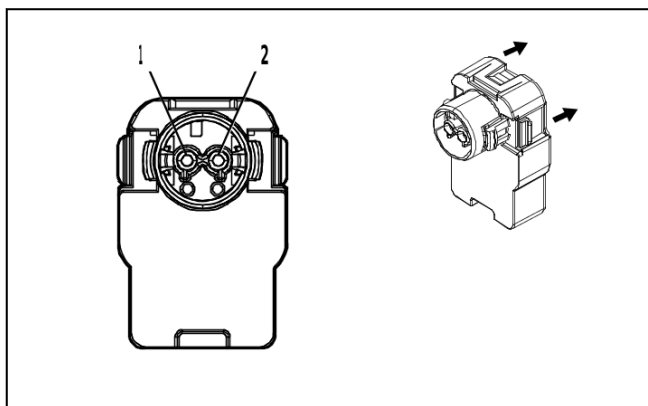
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

E135R Front Bumper Fascia Auxiliary Signal Lamp - Right (GRZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) BK	(1) 650	(1) Ground	(1) I	(1) —
(2) 2	(2) 1.5	(2) BN / GN	(2) 4246	(2) Identification Lamp Control	(2) I	(2) —

F101 Instrument Panel Airbag X1



4823732

Connector Part Information

- Harness Type: Instrument Panel Airbag Wiring Harness
- OEM Connector: 13530531
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F ABX-5 Series(PK with YE Cover)

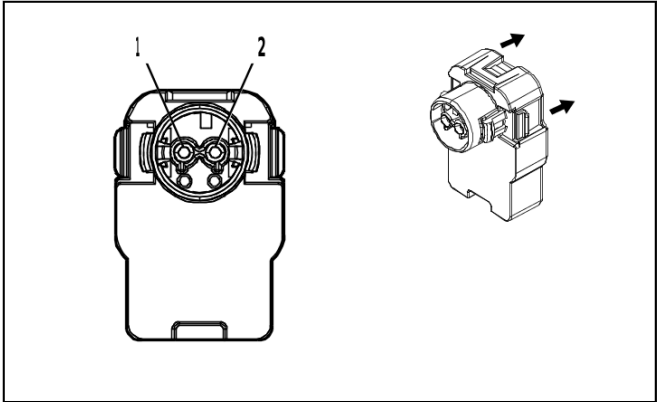
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F101 Instrument Panel Airbag X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) YE / OG	(1) 3025	(1) Passenger Instrument Panel Air Bag Stage 1 High Control	(1) I	(1) —
(2) 2	(2) 0.35	(2) OG / WH	(2) 3024	(2) Passenger Instrument Panel Air Bag Stage 1 Low Control	(2) I	(2) —

F101 Instrument Panel Airbag X2



4772246

Connector Part Information

- Harness Type: Instrument Panel Airbag Wiring Harness
- OEM Connector: 13530532
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way

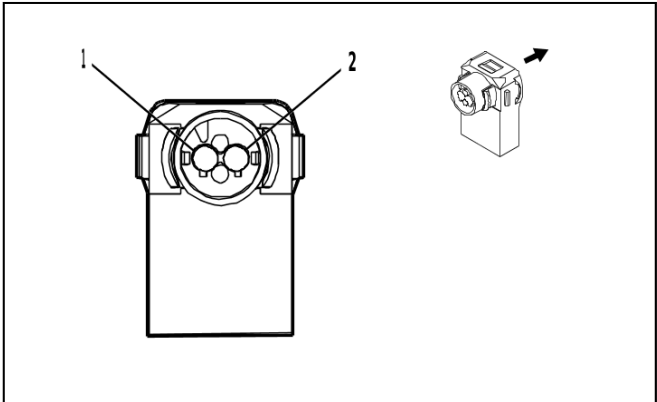
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

F101 Instrument Panel Airbag X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GY / OG	(1) 3027	(1) Passenger Instrument Panel Air Bag Stage 2 High Control	(1) I	(1) —
(2) 2	(2) 0.35	(2) OG / VT	(2) 3026	(2) Passenger Instrument Panel Air Bag Stage 2 Low Control	(2) I	(2) —

F105LF Front Row Roof Rail Airbag - Left



4679778

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33345783
- Service Connector: 85666124
- Description: 2-Way F ABX-5 Series(GY with YE Cover)

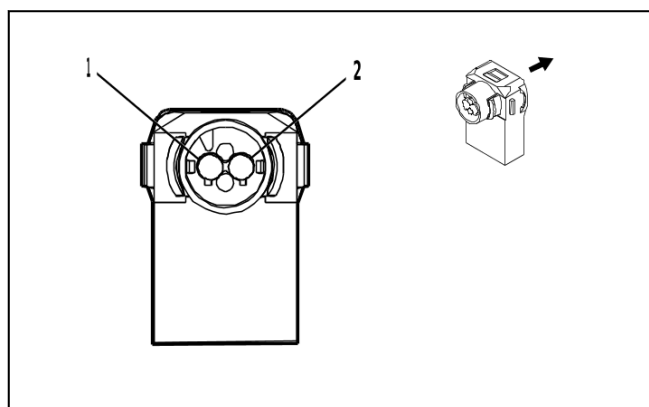
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F105LF Front Row Roof Rail Airbag - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / GN	(1) 5019	(1) Left Front Roof Rail Air Bag High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / OG	(2) 5020	(2) Left Front Roof Rail Air Bag Low Control	(2) I	(2) —

F105RF Front Row Roof Rail Airbag - Right



4679778

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33345783
- Service Connector: 85666124
- Description: 2-Way F ABX-5 Series(GY with YE Cover)

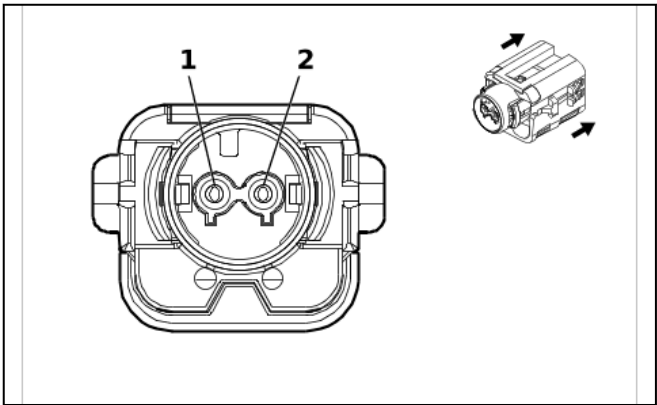
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F105RF Front Row Roof Rail Airbag - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / GY	(1) 5021	(1) Right Front Roof Rail Air Bag High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH / OG	(2) 5022	(2) Right Front Roof Rail Air Bag Low Control	(2) I	(2) —

F106D Front Seat Outboard Seat Back Airbag - Driver



5499727

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 35212936
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F ABX-5 Series(PK with YE Cover)

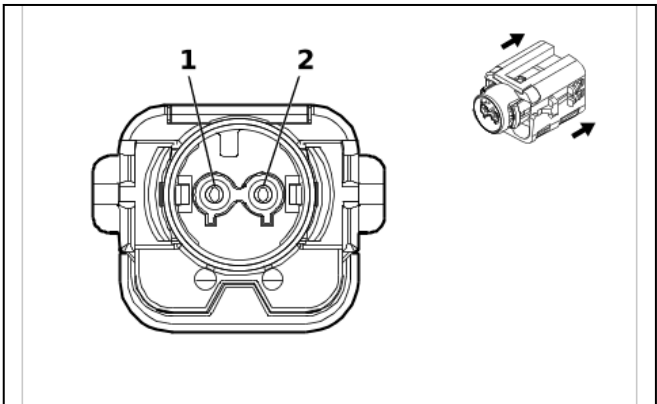
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F106D Front Seat Outboard Seat Back Airbag - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / BU	(1) 4962	(1) Driver Seat Back Air Bag High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / OG	(2) 4963	(2) Driver Seat Back Air Bag Low Control	(2) I	(2) —

F106P Front Seat Outboard Seat Back Airbag - Passenger



5499727

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 35212936
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F ABX-5 Series(PK with YE Cover)

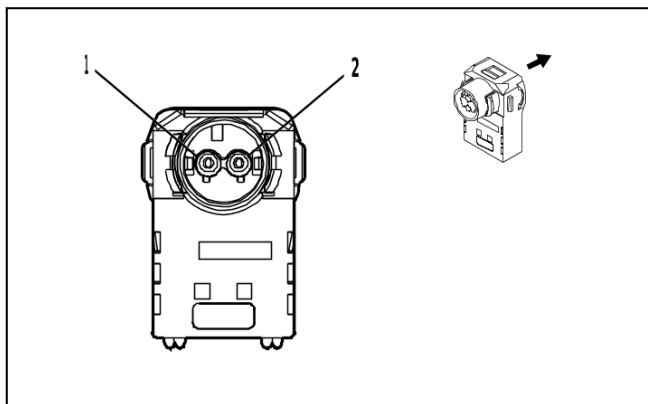
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F106P Front Seat Outboard Seat Back Airbag - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / GY	(1) 4956	(1) Passenger Seat Back Air Bag High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU / OG	(2) 4957	(2) Passenger Seat Back Air Bag Low Control	(2) I	(2) —

F107 Steering Wheel Airbag X1 (N57 & D07)



4231869

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 35504152
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F ABX-5 Series(PK with YE Cover)

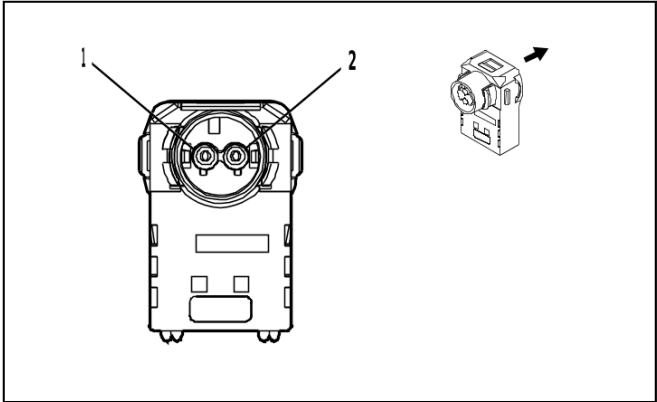
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F107 Steering Wheel Airbag X1 (N57 & D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / VT	(1) 3021	(1) Steering Wheel Air Bag Stage 1 High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / OG	(2) 3020	(2) Steering Wheel Air Bag Stage 1 Low Control	(2) I	(2) —

F107 Steering Wheel Airbag X1 (NK5)



4231869

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 35504152
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F ABX-5 Series(PK with YE Cover)

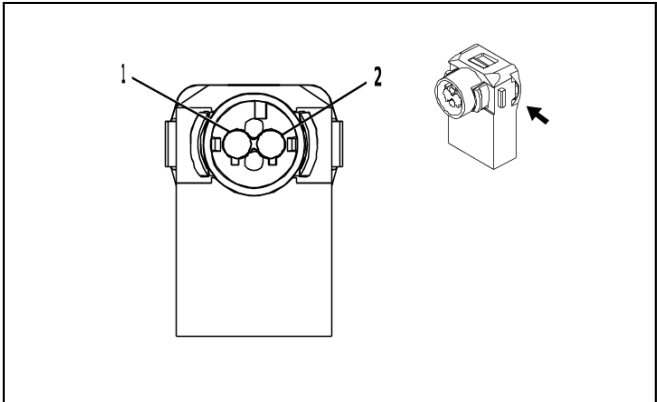
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F107 Steering Wheel Airbag X1 (NK5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / VT	(1) 3021	(1) Steering Wheel Air Bag Stage 1 High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / OG	(2) 3020	(2) Steering Wheel Air Bag Stage 1 Low Control	(2) I	(2) —

F107 Steering Wheel Airbag X2 (N57 & D07)



4241364

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 35504153
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F ABX-5 Series(PU with YE Cover)

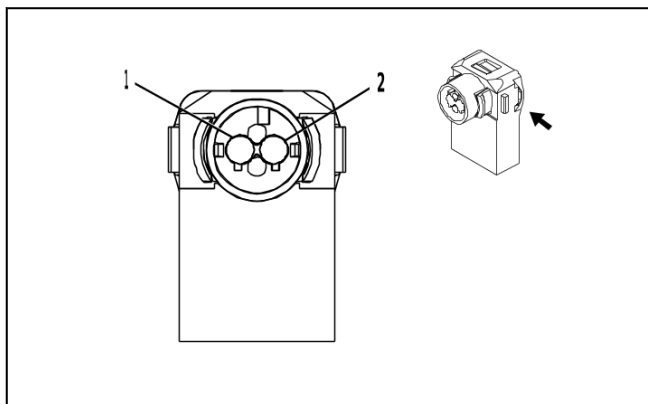
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F107 Steering Wheel Airbag X2 (N57 & D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / GN	(1) 3023	(1) Steering Wheel Air Bag Stage 2 High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH / OG	(2) 3022	(2) Steering Wheel Air Bag Stage 2 Low Control	(2) I	(2) —

F107 Steering Wheel Airbag X2 (NK5)



4241364

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 35504153
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F ABX-5 Series(PU with YE Cover)

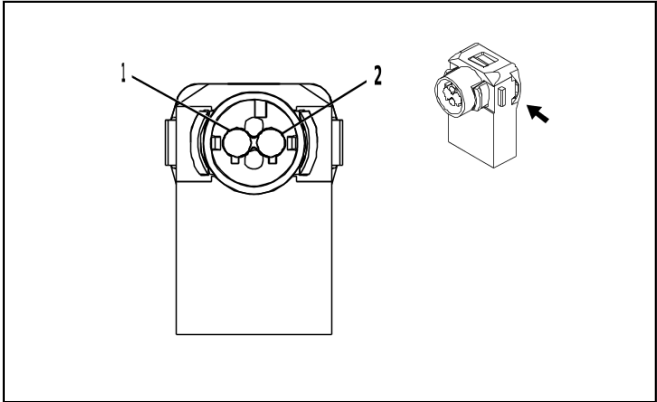
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F107 Steering Wheel Airbag X2 (NK5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / GN	(1) 3023	(1) Steering Wheel Air Bag Stage 2 High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH / OG	(2) 3022	(2) Steering Wheel Air Bag Stage 2 Low Control	(2) I	(2) —

F112D Front Seat Belt Retractor - Driver



4241364

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33345778
- Service Connector: 85666123
- Description: 2-Way F ABX-5 Series(PU with YE Cover)

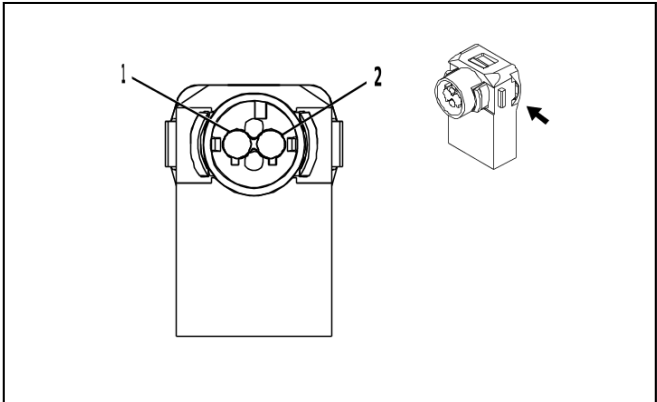
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F112D Front Seat Belt Retractor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / WH	(1) 3477	(1) Driver Seat Belt Retractor Pretensioner High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / OG	(2) 3478	(2) Driver Seat Belt Retractor Pretensioner Low Control	(2) I	(2) —

F112P Front Seat Belt Retractor - Passenger



4241364

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33345778
- Service Connector: 85666123
- Description: 2-Way F ABX-5 Series(PU with YE Cover)

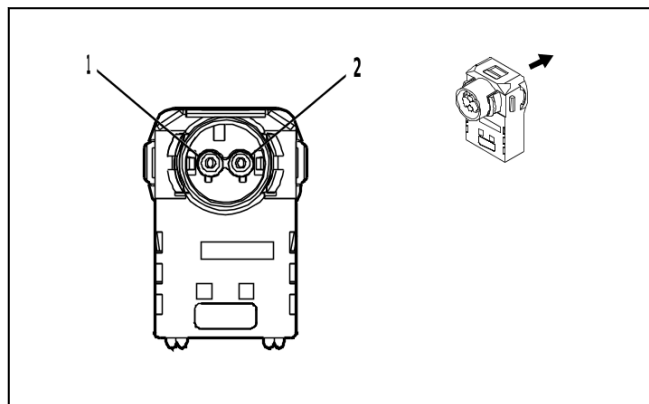
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F112P Front Seat Belt Retractor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / GN	(1) 3475	(1) Passenger Seat Belt Retractor Pretensioner High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH / OG	(2) 3476	(2) Passenger Seat Belt Retractor Pretensioner Low Control	(2) I	(2) —

F113D Front Seat Belt Anchor Plate Tensioner - Driver



4231869

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33345777
- Service Connector: 85666122
- Description: 2-Way F ABX-5 Series(PK with YE Cover)

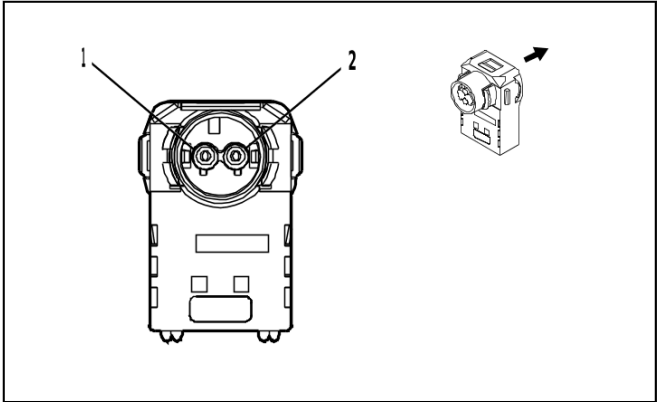
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F113D Front Seat Belt Anchor Plate Tensioner - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / YE	(1) 3481	(1) Driver Seat Belt Anchor Pretensioner High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / OG	(2) 3482	(2) Driver Seat Belt Anchor Pretensioner Low Control	(2) I	(2) —

F113P Front Seat Belt Anchor Plate Tensioner - Passenger



4231869

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33345777
- Service Connector: 85666122
- Description: 2-Way F ABX-5 Series(PK with YE Cover)

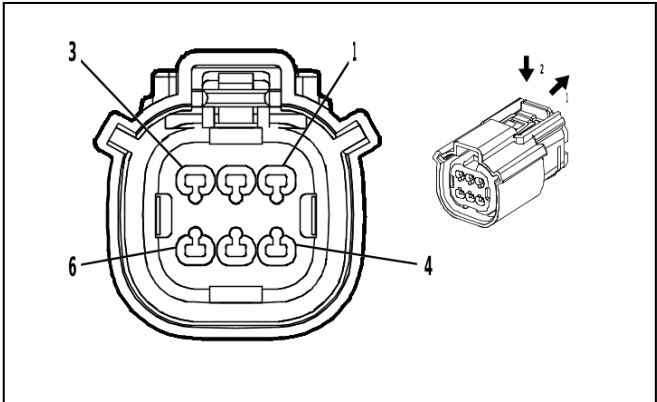
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F113P Front Seat Belt Anchor Plate Tensioner - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) OG / BN	(1) 3479	(1) Passenger Seat Belt Anchor Pretensioner High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) GY / OG	(2) 3480	(2) Passenger Seat Belt Anchor Pretensioner Low Control	(2) I	(2) —

G5 Automatic Transmission Auxiliary Fluid Pump (MHS / MQC)



4574736

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 160038-3009
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.5 MX Series, Sealed(WH)

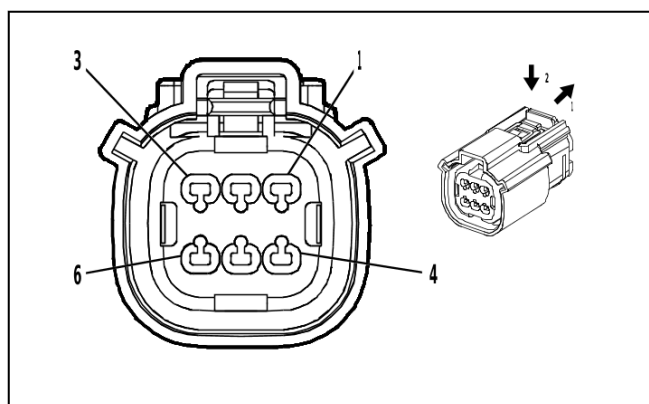
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

G5 Automatic Transmission Auxiliary Fluid Pump (MHS / MQC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) RD / GN	(1) 40	(1) Battery Positive Voltage	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) GN / GY	(3) 6387	(3) Transmission High Side Driver 1 Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) GN / WH	(4) 2968	(4) Transmission Auxiliary Fluid Pump Control	(4) I	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 1.5	(6) BK	(6) 6250	(6) Transmission Ground	(6) I	(6) —

G5 Automatic Transmission Auxiliary Fluid Pump (MHT / MQB)



4574736

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 160038-3009
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.5 MX Series, Sealed(WH)

Terminal Part Information

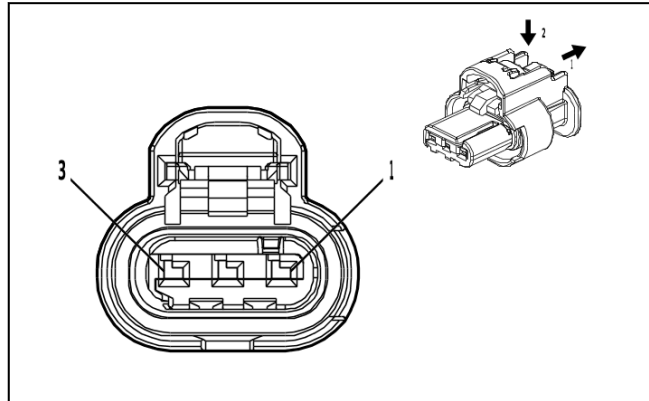
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

G5 Automatic Transmission Auxiliary Fluid Pump (MHT / MQB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) GN / VT	(1) 8540	(1) Battery Positive Voltage	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) BN	(3) 6387	(3) Transmission High Side Driver 1 Control	(3) I	(3) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(4) 4	(4) 0.5	(4) GY / OG	(4) 2968	(4) Transmission Auxiliary Fluid Pump Control	(4) I	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 1.5	(6) BK / YE	(6) 450	(6) Ground	(6) I	(6) —

G8 Engine Coolant Pump - Auxiliary



4581126

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

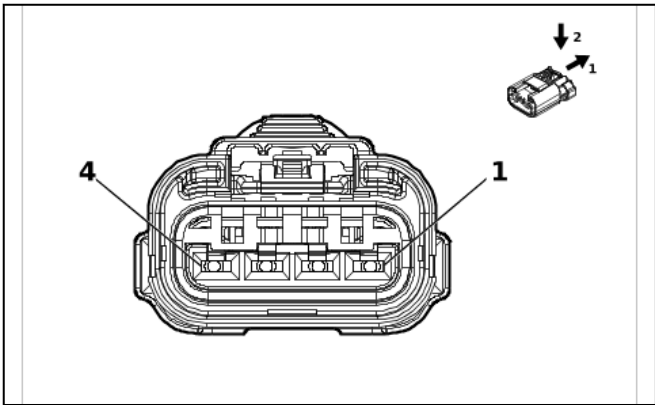
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

G8 Engine Coolant Pump - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 450	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) RD / BU	(2) 6040	(2) Battery Positive Voltage	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / VT	(3) 4621	(3) Engine Control Module LIN Bus 1	(3) I	(3) —

G10L Cooling Fan Motor - Left



5838592

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35243535
- Service Connector: 85563415
- Description: 4-Way F 2.8 APEX Series, Sealed(BK)

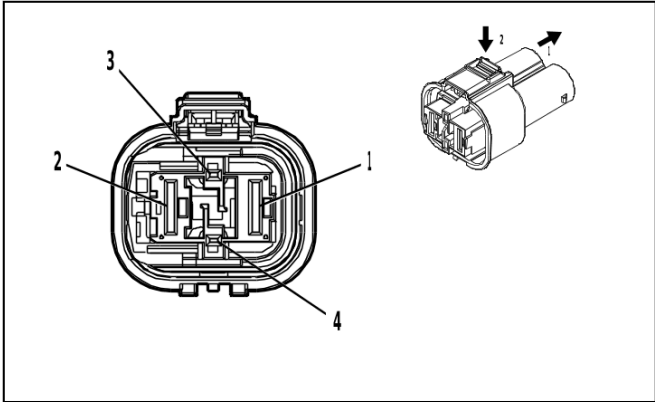
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-35 (VT)	No Tool Required
III	Not required	J-35616-4A (PU)	No Tool Required

G10L Cooling Fan Motor - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 5 (1) 5 (1) 5	(1) BK (1) BK (1) BK	(1) 6550 (1) 450 (1) 4450	(1) Ground (1) Ground (1) Ground	(1) III (1) III (1) III	(1) L3B (1) L84/ L87 (1) LZ0
(2) 2	(2) 5	(2) RD / GN	(2) 3840	(2) Battery Positive Voltage	(2) III	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.75 (4) 0.75	(4) GN / VT (4) GN / VT	(4) 4621 (4) 4621	(4) Engine Control Module LIN Bus 1 (4) Engine Control Module LIN Bus 1	(4) I (4) II	(4) L84/ L87 (4) LZ0/ L3B

G10LW Cooling Fan Motor - Lower



4847569

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 4-2286732-1
- Service Connector: 84766431
- Description: 4-Way F 1.2, 9.5 MCON Series, Sealed(BK)

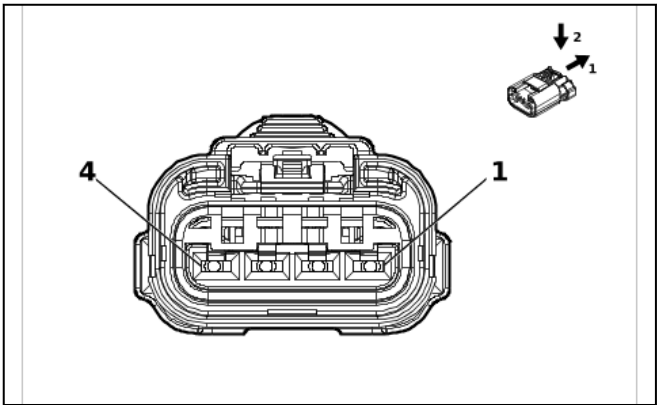
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-22 (RD)	No Tool Required

G10LW Cooling Fan Motor - Lower

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 5	(1) RD / GY	(1) 4140	(1) Battery Positive Voltage	(1) II	(1) —
(2) 2	(2) 5 (2) 5	(2) BK (2) BK	(2) 6550 (2) 4450	(2) Ground (2) Ground	(2) II (2) II	(2) L3B (2) LZ0
(3) 3	(3) 0.5	(3) GN / YE	(3) 4623	(3) Engine Control Module LIN Bus 3	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

G10R Cooling Fan Motor - Right (L3B)



5838592

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35243535
- Service Connector: 85563415
- Description: 4-Way F 2.8 APEX Series, Sealed(BK)

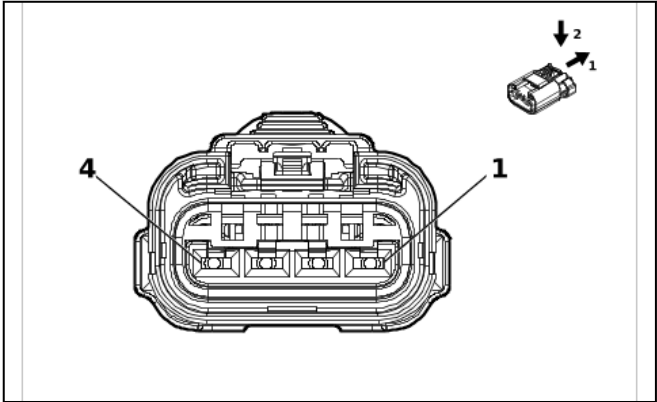
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

G10R Cooling Fan Motor - Right (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 5	(1) BK	(1) 6550	(1) Ground	(1) II	(1) —
(2) 2	(2) 5	(2) RD / VT	(2) 4040	(2) Battery Positive Voltage	(2) II	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.75	(4) GN / VT	(4) 4621	(4) Engine Control Module LIN Bus 1	(4) I	(4) —

G10R Cooling Fan Motor - Right (L84 / L87)



5838592

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35243535
- Service Connector: 85563415
- Description: 4-Way F 2.8 APEX Series, Sealed(BK)

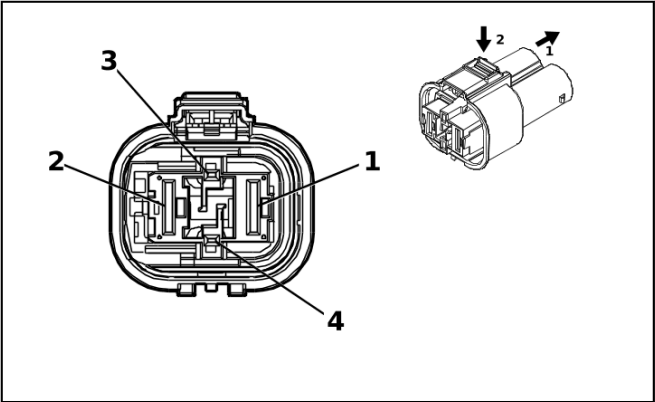
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

G10R Cooling Fan Motor - Right (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 5	(1) BK	(1) 450	(1) Ground	(1) II	(1) —
(2) 2	(2) 5	(2) RD / VT	(2) 4040	(2) Battery Positive Voltage	(2) II	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.75	(4) GN / VT	(4) 4621	(4) Engine Control Module LIN Bus 1	(4) I	(4) —

G10R Cooling Fan Motor - Right (LZ0)



5187743

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 4-2286732-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2, 9.5 MCON Series(GY)

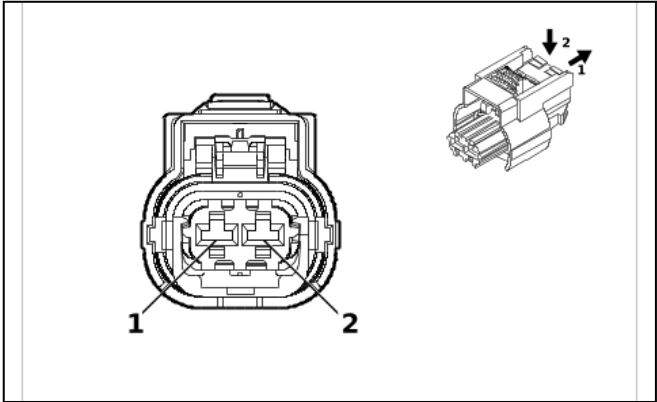
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-22 (RD)	No Tool Required

G10R Cooling Fan Motor - Right (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 8	(1) RD / BN	(1) 1742	(1) Battery Positive Voltage	(1) II	(1) —
(2) 2	(2) 8	(2) BK	(2) 4450	(2) Ground	(2) II	(2) —
(3) 3	(3) 0.5	(3) GN / VT	(3) 4621	(3) Engine Control Module LIN Bus 1	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

G13 Generator X1 (L3B)



4992524

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35182447
- Service Connector: 84941154
- Description: 2-Way F 2.8 MCP Series, Sealed(BK)

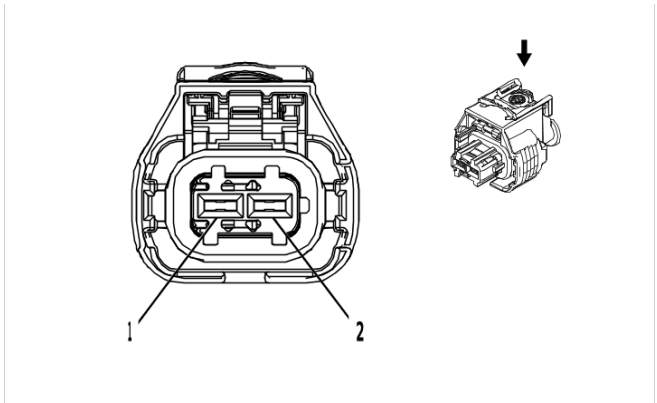
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

G13 Generator X1 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 25	(1) Charge Indicator Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) GY	(2) 23	(2) Generator Field Duty Cycle Signal	(2) I	(2) —

G13 Generator X1 (L84 / L87)



2577394

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1 928 405 714
- Service Connector: 13384371
- Description: 2-Way F 2.8 Series, Sealed(BK)

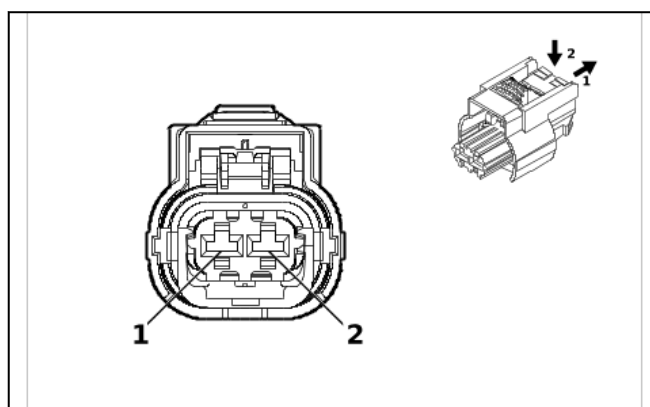
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

G13 Generator X1 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 25	(1) Charge Indicator Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) GY	(2) 23	(2) Generator Field Duty Cycle Signal	(2) I	(2) —

G13 Generator X1 (LZ0)



4992524

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35182447
- Service Connector: 84941154
- Description: 2-Way F 2.8 MCP Series, Sealed(BK)

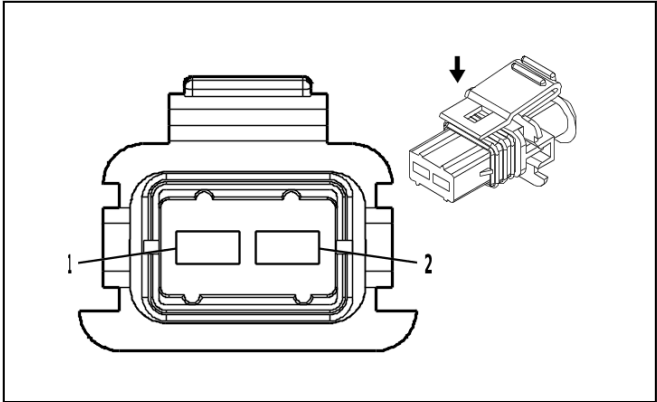
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

G13 Generator X1 (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 25	(1) Charge Indicator Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) GY	(2) 23	(2) Generator Field Duty Cycle Signal	(2) I	(2) —

G13 Generator X1 (VYU)



1522871

Connector Part Information

- Harness Type: Accessory Wiring Harness
- OEM Connector: 12186308
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F Junior Power Timer Series, Sealed(BK)

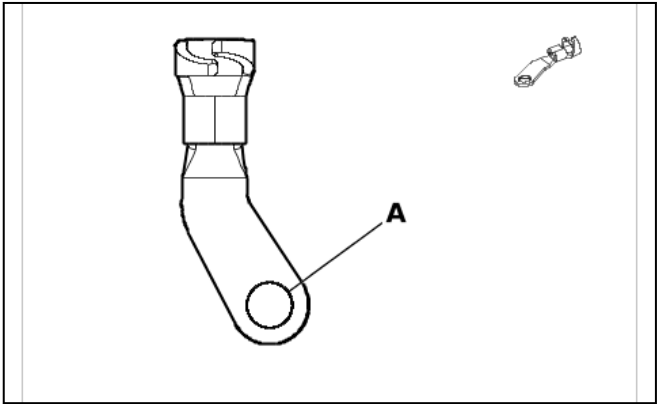
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

G13 Generator X1 (VYU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 9025	(1) Charge Indicator Control Switch Signal	(1) I	(1) VYU
(2) 2	(2) 0.5	(2) GY	(2) 23	(2) Generator Field Duty Cycle Signal	(2) I	(2) VYU

G13 Generator X2 (L3B)



5911279

Connector Part Information

- Harness Type: Starter Solenoid Cable
- OEM Connector: 84238913
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

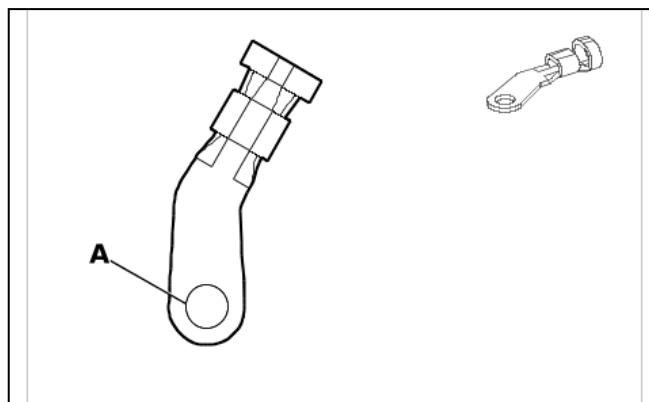
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

G13 Generator X2 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD / BU	42	Battery Positive Voltage	I	—

G13 Generator X2 (L84 / L87)



6444786

Connector Part Information

- Harness Type: Starter Solenoid Cable
- OEM Connector: 1122701
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

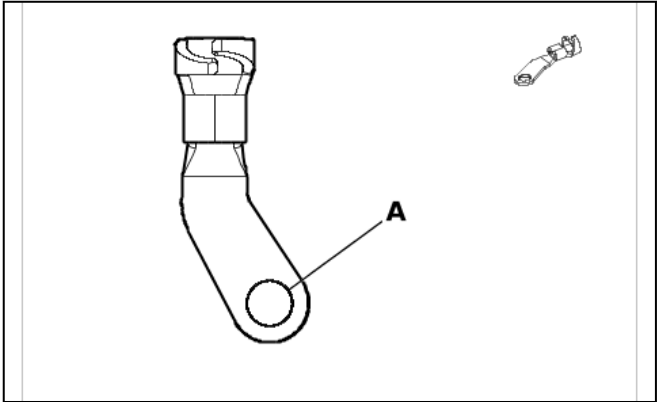
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

G13 Generator X2 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD / BU	42	Battery Positive Voltage	I	—

G13 Generator X2 (LZ0)



5911279

Connector Part Information

- Harness Type: Generator Battery Jumper Cable
- OEM Connector: 84238913
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

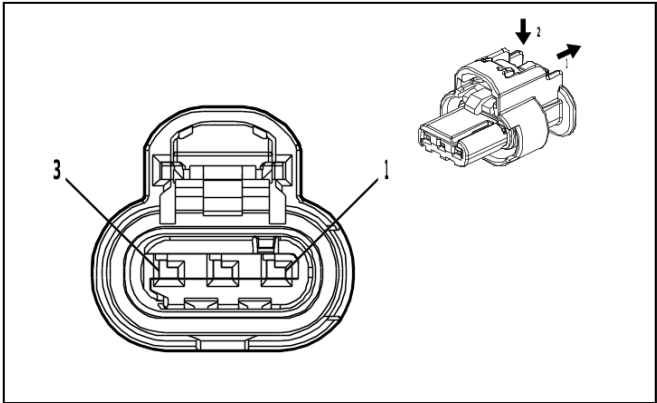
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

G13 Generator X2 (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD / BU	42	Battery Positive Voltage	I	—

G17 Heater Coolant Pump



4581126

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-1
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

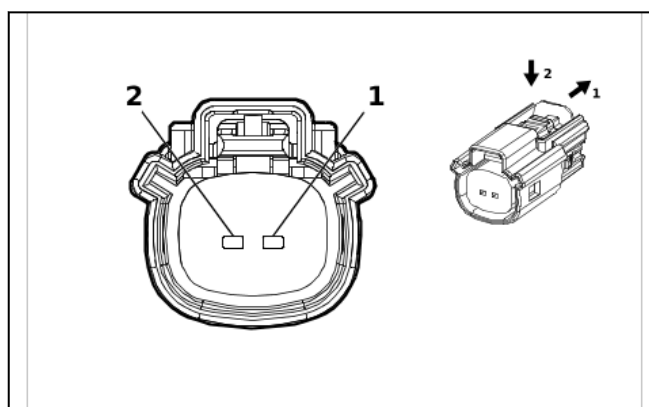
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

G17 Heater Coolant Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 450	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) RD / BU	(2) 6040	(2) Battery Positive Voltage	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / VT	(3) 4621	(3) Engine Control Module LIN Bus 1	(3) I	(3) —

G18 Fuel Pump - High Pressure (L3B)



2474713

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 33471-0206
- Service Connector: 13577534
- Description: 2-Way F 1.5 Series, Sealed(BK)

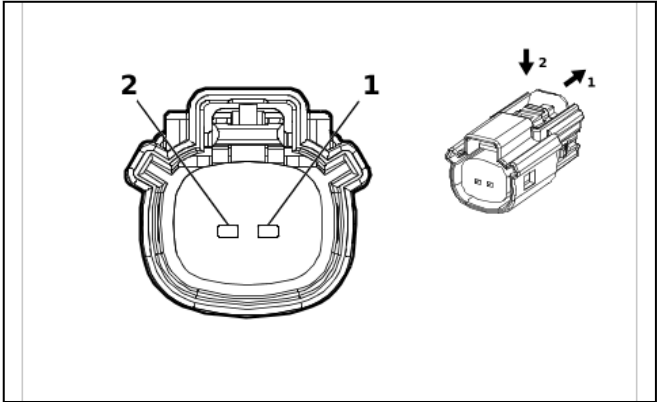
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

G18 Fuel Pump - High Pressure (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BK	(1) 7300	(1) High Pressure Fuel Pump Low Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE	(2) 7301	(2) High Pressure Fuel Pump High Control	(2) I	(2) —

G18 Fuel Pump - High Pressure (L84 / L87)



2474713

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Bank 2
- OEM Connector: 33471-0206
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

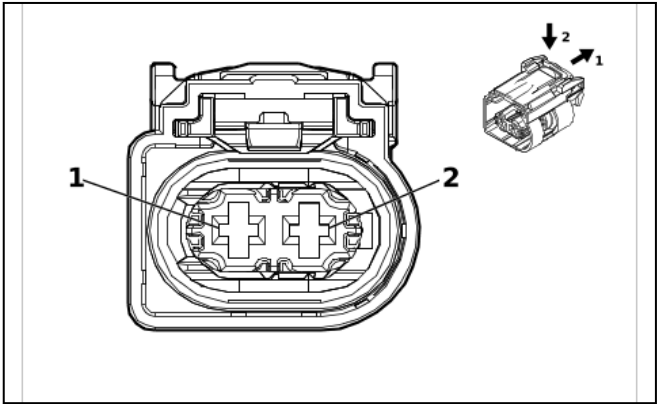
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

G18 Fuel Pump - High Pressure (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) VT / BK	(1) 7300	(1) High Pressure Fuel Pump Low Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) YE	(2) 7301	(2) High Pressure Fuel Pump High Control	(2) I	(2) —

G24 Windshield Washer Pump



5580410

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 2425741-1
- Service Connector: 85005016
- Description: 2-Way F 2.8 MCP Series, Sealed(BK)

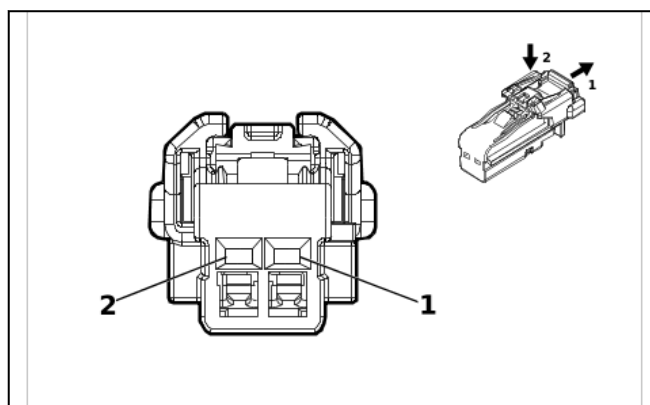
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

G24 Windshield Washer Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GY / VT	(1) 228	(1) Windshield Washer Pump Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK	(2) 150	(2) Ground	(2) I	(2) —

G31D Front Seat Back Lumbar Pump - Driver (AF6)



4115691

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

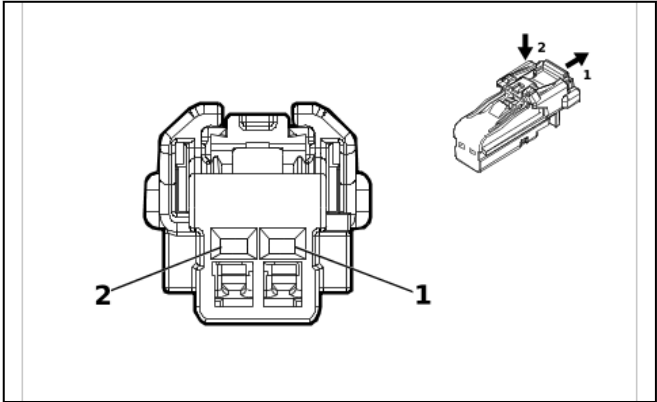
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

G31D Front Seat Back Lumbar Pump - Driver (AF6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / BU	(1) 4891	(1) Driver Seat Lumbar/Bolster Pump Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / BK	(2) 2305	(2) Driver Seat Bolster Pump Low Reference	(2) I	(2) —

G31D Front Seat Back Lumbar Pump - Driver (AVK)



4115691

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

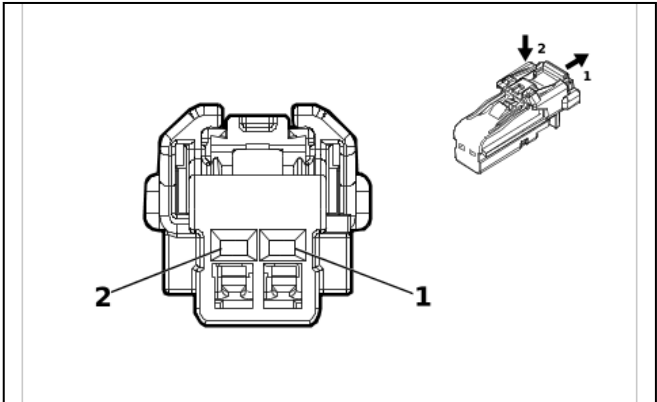
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

G31D Front Seat Back Lumbar Pump - Driver (AVK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / BU	(1) 4891	(1) Driver Seat Lumbar/Bolster Pump Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / BK	(2) 2305	(2) Driver Seat Bolster Pump Low Reference	(2) I	(2) —

G31P Front Seat Back Lumbar Pump - Passenger (- AKE & AVU)



4115691

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

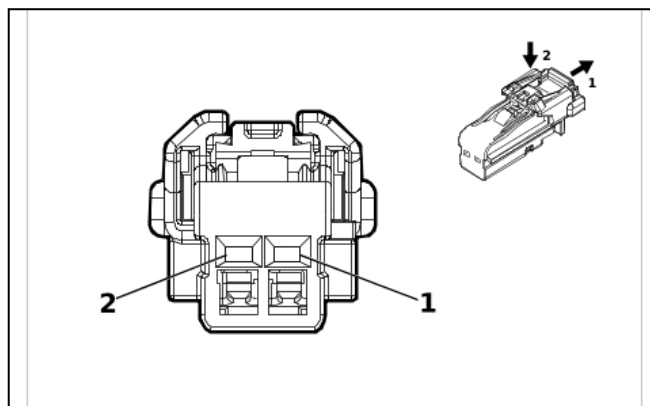
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

G31P Front Seat Back Lumbar Pump - Passenger (- AKE & AVU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / WH	(1) 4890	(1) Passenger Seat Lumbar/Bolster Pump Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1350	(2) Ground	(2) I	(2) —

G31P Front Seat Back Lumbar Pump - Passenger (AKE & AVU)



4115691

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

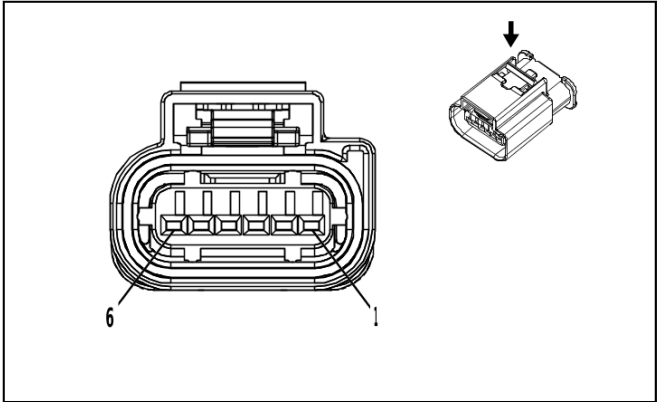
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

G31P Front Seat Back Lumbar Pump - Passenger (AKE & AVU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / WH	(1) 4890	(1) Passenger Seat Lumbar/Bolster Pump Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) GY / BK	(2) 2306	(2) Passenger Seat Bolster Pump Low Reference	(2) I	(2) —

G58 Evaporative Emission Canister Purge Pump



3747579

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2272975-1
- Service Connector: 19354437
- Description: 6-Way F 1.2 MCON Series, Sealed(BK)

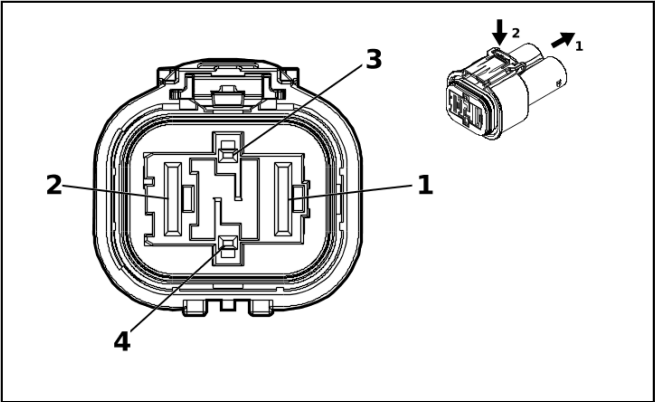
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

G58 Evaporative Emission Canister Purge Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / BU	(1) 2447	(1) Evaporative Purge Pump Pressure Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) Engine Control Sensors Low Reference 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / RD	(3) 460	(3) Engine Control Sensors 5 Volt Reference 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) GN / BN	(4) 2732	(4) Engine Control Module LIN Bus 4	(4) I	(4) —
(5) 5	(5) 0.75	(5) BK	(5) 6550	(5) Ground	(5) I	(5) —
(6) 6	(6) 0.75	(6) VT / BU	(6) 5294	(6) Powertrain Main Relay Fused Supply Voltage	(6) I	(6) —

G59 Engine Coolant Pump



5389785

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2332470-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2, 9.5 MCON Series(BK)

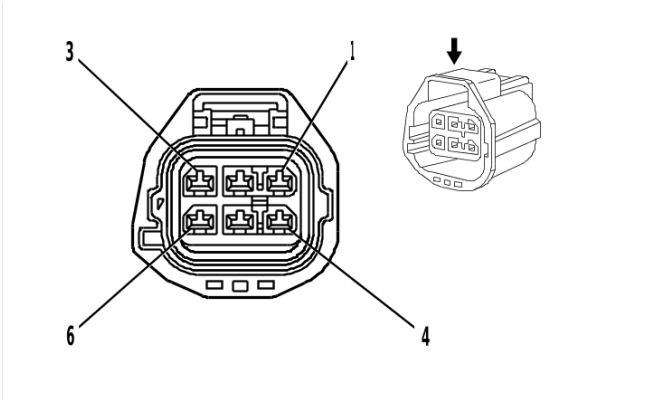
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-22 (RD)	No Tool Required

G59 Engine Coolant Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 10	(1) RD / BN	(1) 1742	(1) Battery Positive Voltage	(1) II	(1) —
(2) 2	(2) 10	(2) BK	(2) 6550	(2) Ground	(2) II	(2) —
(3) 3	(3) 0.5	(3) GN / BN	(3) 2732	(3) Engine Control Module LIN Bus 4	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

K4 Running Board Control Module X1



1420587

- Connector Part Information**
- Harness Type: Chassis Wiring Harness
 - OEM Connector: 7287-9814-10
 - Service Connector: 19368306
 - Description: 6-Way F 2.8 Series, Sealed(GY)

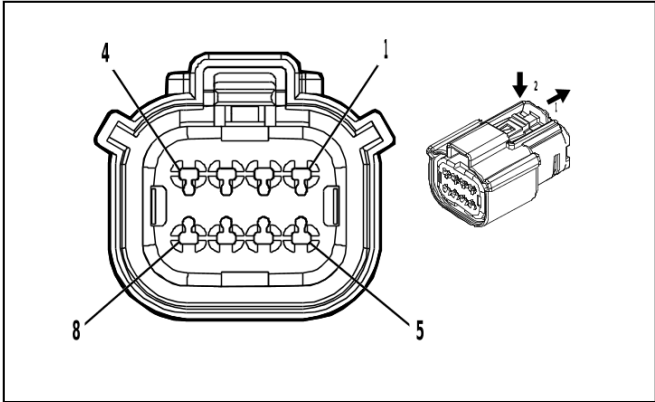
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

K4 Running Board Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) RD / WH	(1) 1040	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 2	(2) GY	(2) 7472	(2) Left Running Board Step Motor Control Retract	(2) I	(2) —
(3) 3	(3) 2	(3) BU	(3) 7470	(3) Right Running Board Step Motor Control Extend	(3) I	(3) —
(4) 4	(4) 2.5	(4) BK	(4) 1650	(4) Ground	(4) I	(4) —
(5) 5	(5) 2	(5) WH / BN	(5) 7471	(5) Left Running Board Step Motor Control Extend	(5) I	(5) —
(6) 6	(6) 2	(6) GN	(6) 7469	(6) Right Left Running Board Step Motor Control Retract	(6) I	(6) —

K4 Running Board Control Module X2



4846407

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 33472-4816
- Service Connector: 84928314
- Description: 8-Way F 1.5 MX Series, Sealed(BK)

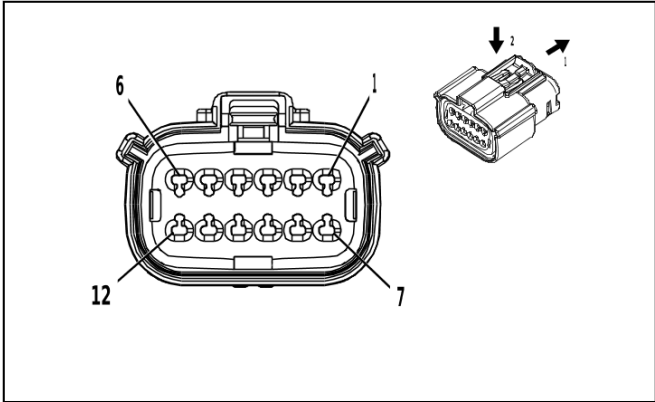
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

K4 Running Board Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 4986	(1) AUTOSAR CAN Bus [-] 1 Serial Data	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH	(2) 4986	(2) AUTOSAR CAN Bus [-] 1 Serial Data	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU	(3) 4987	(3) AUTOSAR CAN Bus [+] 1 Serial Data	(3) I	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) BU	(5) 4987	(5) AUTOSAR CAN Bus [+] 1 Serial Data	(5) I	(5) —
(6) 6	(6) 0.5	(6) WH	(6) 4986	(6) AUTOSAR CAN Bus [-] 1 Serial Data	(6) I	(6) —
(7) 7	(7) 0.5	(7) BU	(7) 4987	(7) AUTOSAR CAN Bus [+] 1 Serial Data	(7) I	(7) —
8	—	—	—	Not Occupied	—	—

K4 Running Board Control Module X3



2871860

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 35554985
- Service Connector: 19352907
- Description: 12-Way F 1.5 MX Series, Sealed(BK)

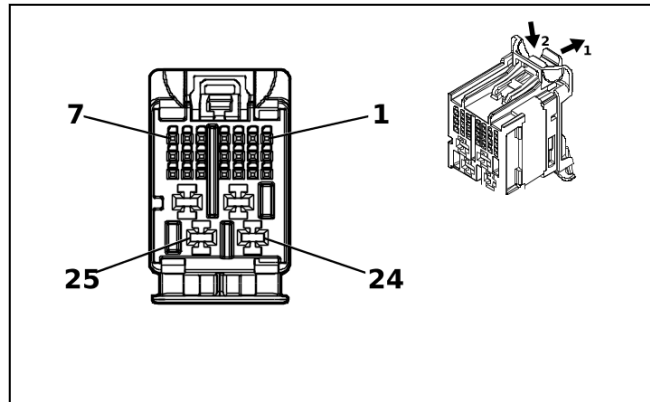
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217

K4 Running Board Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / RD	(1) 7464	(1) Right Running Board Step Motor Hall Sensor 5V Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT	(2) 7465	(2) Right Running Board Step Motor Hall Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE / BK	(3) 7463	(3) Right Running Board Step Motor Hall Sensor Low Reference	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) VT / RD	(7) 7468	(7) Left Running Board Step Motor Hall Sensor 5V Reference	(7) I	(7) —
(8) 8	(8) 0.5	(8) YE	(8) 7467	(8) Left Running Board Step Motor Hall Sensor Signal	(8) I	(8) —
(9) 9	(9) 0.5	(9) YE / BN	(9) 7466	(9) Left Running Board Step Motor Hall Sensor Low Reference	(9) I	(9) —
(10) 10	(10) 0.5	(10) BU / GN	(10) 4746	(10) Running Board Step Left Kick Switch Signal	(10) I	(10) —
(11) 11	(11) 0.5	(11) WH	(11) 4747	(11) Running Board Step Right Kick Switch Signal	(11) I	(11) —
12	—	—	—	Not Occupied	—	—

K9 Body Control Module X1



5203995

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 160027-0013
- Service Connector: 13534967
- Description: 25-Way F 0.5 MQS, 2.8 MCP Series(BK with GY Inner Connector)

Terminal Part Information

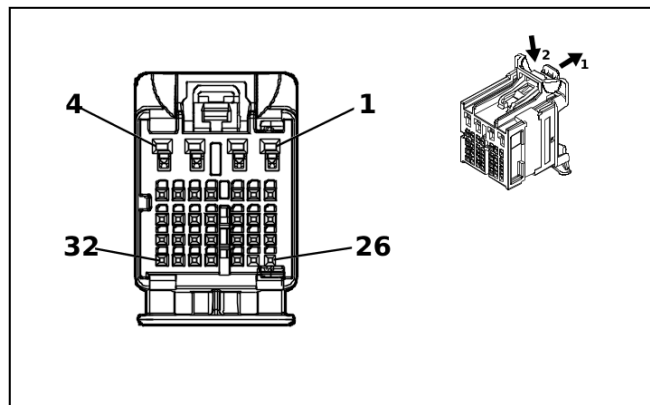
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	87814662	J-35616-35 (VT)	J-38125-557

K9 Body Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.35	(2) BU / GN	(2) 4248	(2) Cargo Lamp Indicator Control	(2) I	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.35	(5) BU / GY	(5) 754	(5) Blower Motor Speed Control	(5) I	(5) —
(6) 6	(6) 0.35	(6) WH / YE	(6) 4634	(6) HVAC Remote Enable Signal	(6) I	(6) —
(7) 7	(7) 0.35	(7) WH / GY	(7) 7297	(7) Minor Endgate High Relay Control	(7) I	(7) —
8 - 10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.3 5	(11) GY / GN	(11) 4636	(11) HVAC System Enable Signal	(11) I	(11) —
(12) 12	(12) 0.3 5	(12) GY	(12) 728	(12) Security Indicator Control	(12) I	(12) —
(13) 13	(13) 0.3 5	(13) YE	(13) 6812	(13) Out of Park Signal	(13) I	(13) —
14	—	—	—	Not Occupied	—	—
(15) 15	(15) 0.3 5	(15) GY	(15) 590	(15) Driver Solar Sensor Signal	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) GY	(16) 6137	(16) Air Conditioning Evaporator Temperature Sensor Signal	(16) I	(16) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(17) 17	(17) 0.3 5	(17) WH / BU	(17) 278	(17) Ambient Light Sensor Signal	(17) I	(17) —
(18) 18	(18) 0.3 5	(18) BU / WH	(18) 734	(18) Inside Air Temperature Sensor Signal	(18) I	(18) —
(19) 19	(19) 0.3 5	(19) GY	(19) 158	(19) Cargo Lamp Switch Signal	(19) I	(19) —
(20) 20	(20) 0.3 5	(20) GN / VT	(20) 2852	(20) Body Control Module LIN Bus 6	(20) I	(20) —
21 - 22	—	—	—	Not Occupied	—	—
(23) 23	(23) 1	(23) RD / GY	(23) 2140	(23) Battery Positive Voltage	(23) II	(23) —
24	—	—	—	Not Occupied	—	—
(25) 25	(25) 1	(25) GN / YE	(25) 6840	(25) Auxiliary Device 2 Switched Voltage	(25) II	(25) —

K9 Body Control Module X2



5204222

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 160028-0015
- Service Connector: 13534980
- Description: 32-Way F 0.5 NANO, 1.2 MCON, stAK50h Series(PK with GY Inner Connector)

Terminal Part Information

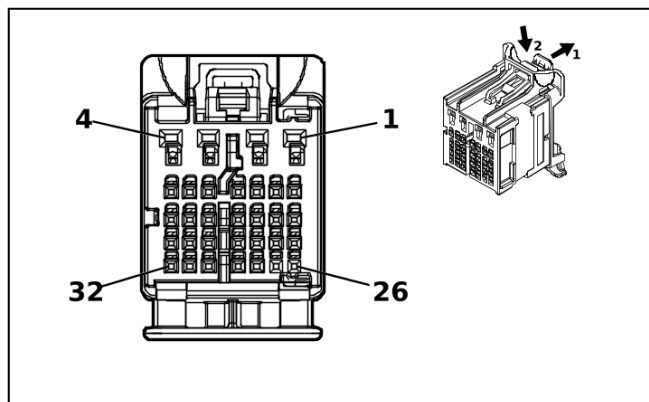
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58

K9 Body Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.35	(5) BU / GN	(5) 5723	(5) Ignition Mode Switch Mode Voltage	(5) I	(5) —
6 - 8	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(9) 9	(9) 0.35 (9) 0.35	(9) VT / YE (9) GN / BU	(9) 5526 (9) 3738	(9) Tap Up/Tap Down Switch Signal (9) Tap Up/Tap Down Switch Signal 2	(9) I (9) I	(9) (MQC/ MHS) + N38 (9) MQB/ MHT
(10) 10	(10) 0.3 5	(10) WH / BN	(10) 2203	(10) Enhanced Driver Mode 2 Switch Signal	(10) I	(10) —
(11) 11	(11) 0.3 5	(11) GY	(11) 1198	(11) Endgate Release Switch Analog Signal Interior	(11) I	(11) —
(12) 12	(12) 0.3 5	(12) YE / BU	(12) 1714	(12) Windshield Wiper Switch Low Signal	(12) I	(12) —
(13) 13	(13) 0.3 5	(13) GY / GN	(13) 5737	(13) Distance Sensing Cruise Control Gap Up/Down Switch Signal	(13) I	(13) —
(14) 14	(14) 0.3 5	(14) BN / GN	(14) 1884	(14) Cruise Control Set/Coast/Resume/Accelerate Switch Signal	(14) I	(14) —
15	—	—	—	Not Occupied	—	—
(16) 16	(16) 0.3 5	(16) BN / BK	(16) 5720	(16) Ignition Mode Switch Accessory LED Signal	(16) I	(16) —
17 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.3 5	(19) WH / VT	(19) 103	(19) Headlamp Switch On Signal	(19) I	(19) —
(20) 20	(20) 0.3 5	(20) GN / GY	(20) 13	(20) Headlamp Switch Park Lamp Signal	(20) I	(20) —
(21) 21	(21) 0.3 5	(21) GN / BN	(21) 306	(21) Headlamp Switch Off Signal	(21) I	(21) —
22	—	—	—	Not Occupied	—	—
(23) 23	(23) 0.3 5	(23) VT / BU	(23) 2916	(23) Right Turn Signal Switch Signal	(23) I	(23) —
24	—	—	—	Not Occupied	—	—
(25) 25	(25) 0.3 5	(25) BK / GY	(25) 6009	(25) Windshield Wiper Switch Low Reference	(25) I	(25) —
(26) 26	(26) 0.3 5	(26) WH / BK	(26) 94	(26) Windshield Washer Switch Signal	(26) I	(26) —
(27) 27	(27) 0.3 5	(27) YE / BN	(27) 307	(27) Headlamp Switch Flash Signal	(27) I	(27) —
(28) 28	(28) 0.3 5	(28) GN / WH	(28) 3287	(28) Horn Switch Signal	(28) I	(28) —
(29) 29	(29) 0.3 5	(29) WH / GN	(29) 2915	(29) Left Turn Signal Switch Signal	(29) I	(29) —
(30) 30	(30) 0.3 5	(30) BK / YE	(30) 407	(30) Sensor Low Reference	(30) I	(30) —
(31) 31	(31) 0.3 5	(31) GN / WH	(31) 111	(31) Hazard Warning Switch Signal	(31) I	(31) —
(32) 32	(32) 0.3 5	(32) WH	(32) 524	(32) High Beam Select Switch High Beam Signal	(32) I	(32) —

K9 Body Control Module X3



5203925

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 160028-0012
- Service Connector: 13534977
- Description: 32-Way F 0.5 NANO, 1.2 MCON, stAK50h Series(BU with GY Inner Connector)

Terminal Part Information

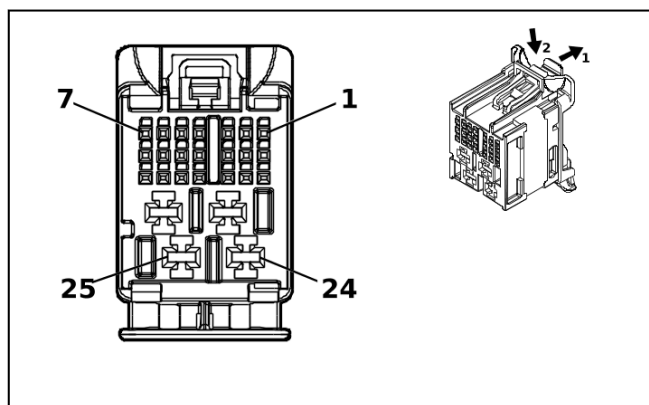
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

K9 Body Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) GN / VT	(3) 4786	(3) Dome/Reading Lamp Enable Signal	(3) II	(3) —
4 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.35	(7) WH / BN	(7) 7555	(7) Headlamp Switch Signal	(7) I	(7) —
8 - 9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.3 5	(10) GN / BK	(10) 2858	(10) Body Control Module LIN Bus 12	(10) I	(10) —
11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0.3 5	(12) YE / WH	(12) 816	(12) Brake Transmission Shift Interlock Solenoid Actuator Control	(12) I	(12) —
(13) 13	(13) 0.3 5	(13) WH	(13) 3152	(13) Lane Departure Warning Indicator Control	(13) I	(13) —
(14) 14	(14) 0.3 5	(14) GN / BN	(14) 5852	(14) Rear Parking Assist Disable LED Signal	(14) I	(14) —
(15) 15	(15) 0.3 5	(15) GN	(15) 1110	(15) Stop/Start Indicator Control	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) GN / BU	(16) 761	(16) Blower Speed Feedback Signal	(16) I	(16) —
(17) 17	(17) 0.3 5	(17) VT / BK	(17) 7553	(17) Park Lock Solenoid Actuator Control	(17) I	(17) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(18) 18	(18) 0.3 5	(18) YE	(18) 7556	(18) Headlamp Switch Reference	(18) I	(18) —
(19) 19	(19) 0.3 5	(19) BU / BK	(19) 5719	(19) Ignition Mode Switch Start LED Signal	(19) I	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.3 5	(21) BN	(21) 7291	(21) Major Endgate Release Switch Signal Interior	(21) I	(21) —
22	—	—	—	Not Occupied	—	—
(23) 23	(23) 0.3 5	(23) BU	(23) 1111	(23) Stop/Start Switch Signal	(23) I	(23) —
(24) 24	(24) 0.3 5	(24) WH / BU	(24) 3691	(24) Trailer Brake Apply Signal	(24) I	(24) —
(25) 25	(25) 0.3 5	(25) BU / GY	(25) 4990	(25) Driver Mode 1 Switch Signal	(25) I	(25) —
(26) 26	(26) 0.3 5	(26) GY / BN	(26) 3904	(26) Auto High Beam Assist Switch Signal	(26) I	(26) —
(27) 27	(27) 0.3 5	(27) GY / WH	(27) 3153	(27) Lane Departure Warning Disable Switch Signal	(27) I	(27) —
28 - 29	—	—	—	Not Occupied	—	—
(30) 30	(30) 0.3 5	(30) BU / YE	(30) 6844	(30) ABS/Traction Control Hill Descent Control Switch Signal	(30) I	(30) —
(31) 31	(31) 0.3 5	(31) GY / GN	(31) 2555	(31) Rear Parking Assist Disable Signal	(31) I	(31) —
32	—	—	—	Not Occupied	—	—

K9 Body Control Module X4



5203893

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 160027-0018
- Service Connector: 13534970
- Description: 25-Way F 0.5 MQS, 2.8 MCP Series(GY)

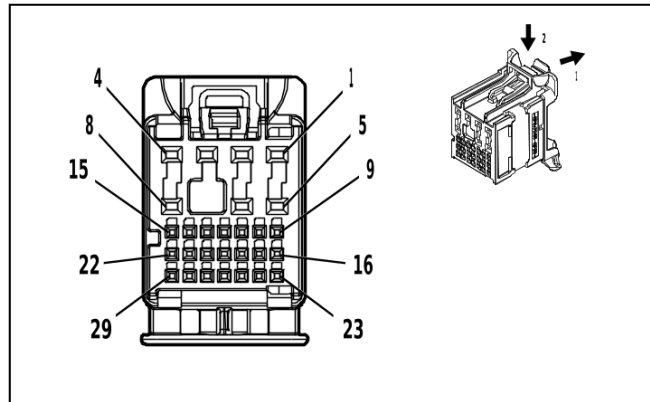
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	87814662	J-35616-35 (VT)	J-38125-557

K9 Body Control Module X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BN / BK	(1) 3552	(1) Interior Passive Entry Antenna 1 High Signal	(1) I	(1) —
(2) 2	(2) 0.35	(2) WH	(2) 3553	(2) Interior Passive Entry Antenna 1 Low Signal	(2) I	(2) —
(3) 3	(3) 0.35	(3) BK / VT	(3) 1449	(3) Steering Wheel Resistor Ladder Low Reference	(3) I	(3) —
(4) 4	(4) 0.35	(4) WH / GN	(4) 7728	(4) Major Endgate High Relay Control	(4) I	(4) —
(5) 5	(5) 0.35	(5) GN / VT	(5) 5199	(5) Run/Crank Relay Coil Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.35	(7) BN / BK	(7) 4996	(7) Immobilizer Antenna Signal [+]	(7) I	(7) —
8 - 9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.3 5	(10) GY / GN	(10) 4083	(10) Retained Accessory Power Relay 2 Coil Control	(10) I	(10) —
(11) 11	(11) 0.3 5	(11) BU / YE	(11) 7176	(11) All Windows Open Switch Signal	(11) I	(11) —
(12) 12	(12) 0.3 5	(12) BU / VT	(12) 7729	(12) Major Endgate Low Relay Control	(12) I	(12) —
13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.3 5	(14) WH / GY	(14) 4997	(14) Immobilizer Antenna Low Signal	(14) I	(14) —
(15) 15	(15) 0.3 5	(15) BU / VT	(15) 1788	(15) Traction Control Switch Signal 1	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) GN / WH	(16) 4115	(16) Body Control Module LIN Bus 5	(16) I	(16) —
17 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.3 5	(19) BU / GN	(19) 4979	(19) AUTOSAR CAN Bus [+] 2 Serial Data	(19) I	(19) —
(20) 20	(20) 0.3 5	(20) WH / BN	(20) 4978	(20) AUTOSAR CAN Bus [-] 2 Serial Data	(20) I	(20) —
(21) 21	(21) 0.3 5	(21) WH	(21) 6816	(21) Indicator Dimming Control	(21) I	(21) —
(22) 22	(22) 0.5	(22) RD / WH	(22) 2740	(22) Battery Positive Voltage	(22) II	(22) —
(23) 23	(23) 2	(23) RD / BU	(23) 2540	(23) Battery Positive Voltage	(23) II	(23) —
(24) 24	(24) 1	(24) BK	(24) 1050	(24) Ground	(24) II	(24) —
(25) 25	(25) 1	(25) BK	(25) 1050	(25) Ground	(25) II	(25) —

K9 Body Control Module X5



4584346

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 160014-0012
- Service Connector: 13534972
- Description: 29-Way F 0.5 NANO, 1.2 MCON Series(GN)

Terminal Part Information

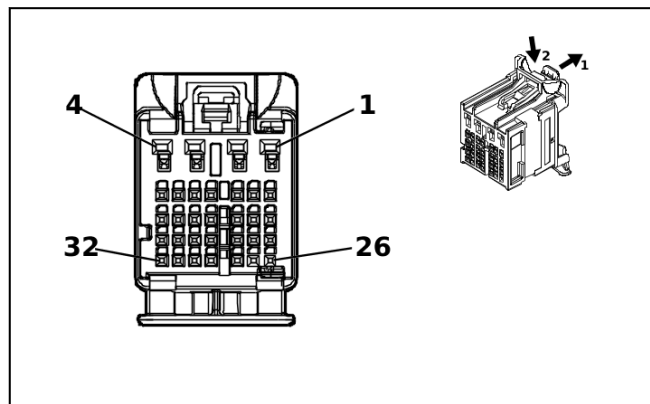
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

K9 Body Control Module X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.5	(2) BU / BN	(2) 7573	(2) Air Conditioning Compressor Solenoid Valve Control	(2) II	(2) —
(3) 3	(3) 0.5	(3) BU / YE	(3) 7574	(3) Air Conditioning Compressor Solenoid Valve Control	(3) II	(3) —
(4) 4	(4) 0.75	(4) WH	(4) 2679	(4) Lock Actuators Unlock Control 1	(4) II	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.5	(6) YE	(6) 6817	(6) LED Backlight Dimming Control 1	(6) II	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.75	(8) GY	(8) 2681	(8) Left Front Door Lock Actuator Lock Control	(8) II	(8) —
9 - 10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.3 5	(11) BN / WH	(11) 28	(11) Horn Relay Control	(11) I	(11) —
(12) 12	(12) 0.3 5	(12) WH	(12) 4978	(12) AUTOSAR CAN Bus [-] 2 Serial Data	(12) I	(12) —
(13) 13	(13) 0.3 5	(13) BU / YE	(13) 4979	(13) AUTOSAR CAN Bus [+] 2 Serial Data	(13) I	(13) —
14 - 15	—	—	—	Not Occupied	—	—
(16) 16	(16) 0.3 5	(16) VT	(16) 4301	(16) Passive Entry Left Antenna Signal High	(16) I	(16) —
(17) 17	(17) 0.3 5	(17) GN / YE	(17) 2855	(17) Body Control Module LIN Bus 9	(17) I	(17) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(18) 18	(18) 0.3 5	(18) VT / GY	(18) 126	(18) Left Front Door Open Switch Signal	(18) I	(18) —
(19) 19	(19) 0.3 5	(19) GN / YE	(19) 6134	(19) Body Control Module LIN Bus 3	(19) I	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.3 5	(21) WH / BU	(21) 6311	(21) Cruise/ETC/TCC Brake Signal	(21) I	(21) —
(22) 22	(22) 0.3 5	(22) BN / VT	(22) 193	(22) Rear Defogger Relay Control	(22) I	(22) —
(23) 23	(23) 0.3 5	(23) VT / WH	(23) 4302	(23) Passive Entry Left Antenna Signal Low	(23) I	(23) —
(24) 24	(24) 0.3 5	(24) WH	(24) 5359	(24) Brake Apply Sensor Control	(24) I	(24) —
(25) 25	(25) 0.3 5	(25) BU / YE	(25) 5361	(25) Brake Apply Sensor Signal	(25) I	(25) —
(26) 26	(26) 0.3 5	(26) BK / BN	(26) 5360	(26) Brake Apply Sensor Low Reference	(26) I	(26) —
(27) 27	(27) 0.3 5	(27) YE	(27) 1144	(27) Endgate Release Switch Discrete Signal Exterior	(27) I	(27) —
28 - 29	—	—	—	Not Occupied	—	—

K9 Body Control Module X6



5202291

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 160028-0017
- Service Connector: 13534981
- Description: 32-Way F 0.5 MQS, 1.2 OCS Series(BN with GY Inner Connector)

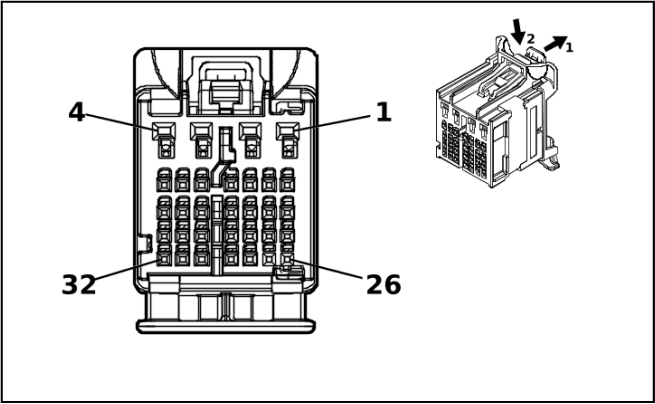
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

K9 Body Control Module X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.75	(2) VT / WH	(2) 1094	(2) Right Rear Door Lock Actuator Lock Control	(2) II	(2) —
(3) 3	(3) 0.75	(3) GY / BK	(3) 2680	(3) Lock Actuators Unlock Control 2	(3) II	(3) —
4 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.35	(7) BN / GN	(7) 3568	(7) Rear Closure Passive Entry Antenna High Signal	(7) I	(7) —
(8) 8	(8) 0.35	(8) GN / GY	(8) 3569	(8) Rear Closure Passive Entry Antenna Low Signal	(8) I	(8) —
9 - 10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.3 5	(11) GN / BU	(11) 6133	(11) Body Control Module LIN Bus 2	(11) I	(11) —
(12) 12	(12) 0.3 5	(12) GY	(12) 7292	(12) Major Endgate Release Switch Signal Exterior	(12) I	(12) —
13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.3 5	(14) VT	(14) 801	(14) Retained Accessory Power Control	(14) I	(14) —
15 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.3 5	(19) YE	(19) 7294	(19) Minor Endgate Release Switch Discrete Signal Exterior	(19) I	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.3 5	(21) YE / BU	(21) 7295	(21) Left Minor Endgate Ajar Signal	(21) I	(21) —
(22) 22	(22) 0.3 5	(22) BN / GN	(22) 4064	(22) Hood Status B Signal	(22) I	(22) —
23 - 27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.3 5	(28) BU	(28) 2675	(28) Left Front Exterior Door Handle Switch Unlock Signal	(28) I	(28) —
29 - 32	—	—	—	Not Occupied	—	—

K9 Body Control Module X7



5202294

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 160028-0014
- Service Connector: 13534979
- Description: 32-Way F 0.5 MQS, 1.2 OCS Series(PU with GY Inner Connector)

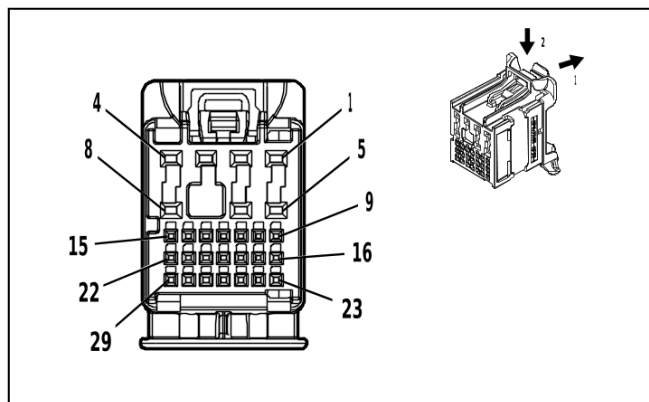
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58

K9 Body Control Module X7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0.35	(9) YE	(9) 900	(9) —	(9) I	(9) —
10 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.3 5	(19) GN / VT	(19) 2857	(19) Body Control Module LIN Bus 11	(19) I	(19) —
(20) 20	(20) 0.3 5	(20) YE	(20) 901	(20) —	(20) I	(20) —
21	—	—	—	Not Occupied	—	—
(22) 22	(22) 0.3 5	(22) YE	(22) 902	(22) —	(22) I	(22) —
23 - 32	—	—	—	Not Occupied	—	—

K9 Body Control Module X8



4578560

Connector Part Information

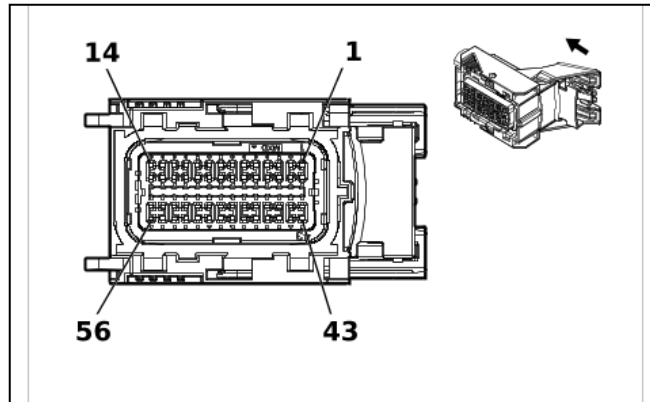
- Harness Type: Body Wiring Harness
- OEM Connector: 160014-0011
- Service Connector: 13534971
- Description: 29-Way F 0.5 NANO, 1.2 MCON, stAK50h Series(DK GY with GY Inner Connector)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

K9 Body Control Module X8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.75	(3) BU / YE	(3) 1091	(3) Left Rear Door Lock Actuator Lock Control	(3) II	(3) —
(4) 4	(4) 0.75	(4) YE / GN	(4) 2682	(4) Right Front Door Lock Actuator Lock Control	(4) II	(4) —
5 - 8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0.35	(9) GN / BK	(9) 4304	(9) Passive Entry Right Antenna Signal Low	(9) I	(9) —
(10) 10	(10) 0.3 5	(10) GN / YE	(10) 4303	(10) Passive Entry Right Antenna Signal High	(10) I	(10) —
11 - 16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.3 5	(17) GN / YE	(17) 2862	(17) Body Control Module LIN Bus 16	(17) I	(17) —
(18) 18	(18) 0.3 5	(18) GN / WH	(18) 2854	(18) Body Control Module LIN Bus 8	(18) I	(18) —
19 - 27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.3 5	(28) GY / VT	(28) 2676	(28) Right Front Door Exterior Switch Unlock Signal	(28) I	(28) —
(29) 29	(29) 0.3 5	(29) GN / GY	(29) 6135	(29) Body Control Module LIN Bus 4	(29) I	(29) —

K19 Suspension Control Module (Z45)

5377109

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 216742-0001
- Service Connector: 85758037
- Description: 56-Way F 0.64 Series, Sealed(BK with BU Terminal Position Assurance)

Terminal Part Information

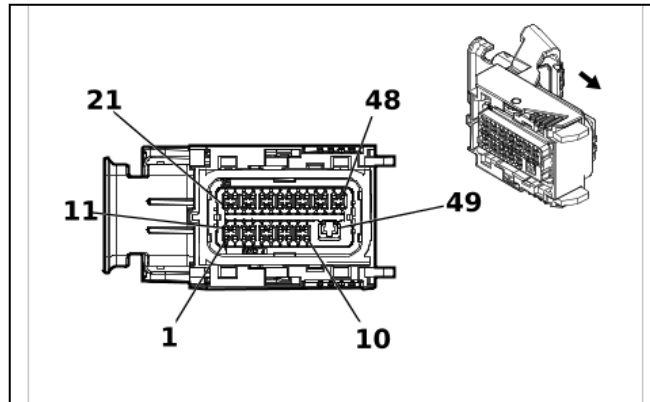
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19351723	J-35616-64B (L-BU)	J-38125-213

K19 Suspension Control Module (Z45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / GY	(1) 1114	(1) Left Rear Shock Absorber Actuator Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / WH	(2) 1207	(2) Left Front Suspension Position Sensor Signal	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.5	(4) BK / BU	(4) 1206	(4) Left Front Suspension Position Sensor Low Reference	(4) I	(4) —
(5) 5	(5) 0.5	(5) GN / WH	(5) 1210	(5) Left Rear Suspension Position Sensor Signal	(5) I	(5) —
6 - 10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.5	(11) YE / WH	(11) 1213	(11) Right Front Suspension Position Sensor Signal	(11) I	(11) —
12 - 13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.75	(14) BN / GN	(14) 1118	(14) Right Rear Shock Absorber Actuator Control	(14) I	(14) —
(15) 15	(15) 0.75	(15) GN / VT	(15) 1115	(15) Left Rear Shock Absorber Actuator Control	(15) I	(15) —
(16) 16	(16) 0.5	(16) BU / RD	(16) 1205	(16) Left Front Suspension Position Sensor Voltage Reference	(16) I	(16) —
(17) 17	(17) 0.75	(17) BK / WH	(17) 1951	(17) Signal Ground	(17) I	(17) —
18 - 19	—	—	—	Not Occupied	—	—
(20) 20	(20) 0.5	(20) WH	(20) 4986	(20) AUTOSAR CAN Bus [-] 1 Serial Data	(20) I	(20) —
21 - 22	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(23) 23	(23) 0.5	(23) BU	(23) 4987	(23) AUTOSAR CAN Bus [+] 1 Serial Data	(23) I	(23) —
24 - 25	—	—	—	Not Occupied	—	—
(26) 26	(26) 0.7 5	(26) RD / GN	(26) 2440	(26) Battery Positive Voltage	(26) I	(26) —
27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.7 5	(28) GN / GY	(28) 1119	(28) Right Rear Shock Absorber Actuator Control	(28) I	(28) —
(29) 29	(29) 0.7 5	(29) BN / WH	(29) 1107	(29) Left Front Shock Absorber Actuator Control	(29) I	(29) —
(30) 30	(30) 0.7 5	(30) GY / BU	(30) 1113	(30) Left Front Shock Absorber Actuator Control	(30) I	(30) —
31	—	—	—	Not Occupied	—	—
(32) 32	(32) 0.5	(32) BK / GN	(32) 1209	(32) Left Rear Suspension Position Sensor Low Reference	(32) I	(32) —
(33) 33	(33) 0.5	(33) YE / RD	(33) 1208	(33) Left Rear Suspension Position Sensor Voltage Reference	(33) I	(33) —
(34) 34	(34) 0.5	(34) WH	(34) 4986	(34) AUTOSAR CAN Bus [-] 1 Serial Data	(34) I	(34) —
(35) 35	(35) 0.5	(35) WH	(35) 4986	(35) AUTOSAR CAN Bus [-] 1 Serial Data	(35) I	(35) —
(36) 36	(36) 0.5	(36) BU	(36) 4987	(36) AUTOSAR CAN Bus [+] 1 Serial Data	(36) I	(36) —
(37) 37	(37) 0.5	(37) BU	(37) 4987	(37) AUTOSAR CAN Bus [+] 1 Serial Data	(37) I	(37) —
(38) 38	(38) 0.5	(38) BK / GY	(38) 1212	(38) Right Front Suspension Position Sensor Low Reference	(38) I	(38) —
(39) 39	(39) 0.5	(39) BN / RD	(39) 1211	(39) Right Front Suspension Position Sensor Voltage Reference	(39) I	(39) —
40	—	—	—	Not Occupied	—	—
(41) 41	(41) 0.7 5	(41) GY / WH	(41) 1117	(41) Right Front Shock Absorber Actuator Control	(41) I	(41) —
(42) 42	(42) 0.7 5	(42) BN / BU	(42) 1116	(42) Right Front Shock Absorber Actuator Control	(42) I	(42) —
43 - 56	—	—	—	Not Occupied	—	—

K20 Engine Control Module X1 (L84 / L87)



5663663

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 216744-0003
- Service Connector: 85669159
- Description: 49-Way F 0.64, 2.8 Series, Sealed(BK with BU Terminal Position Assurance)

Terminal Part Information

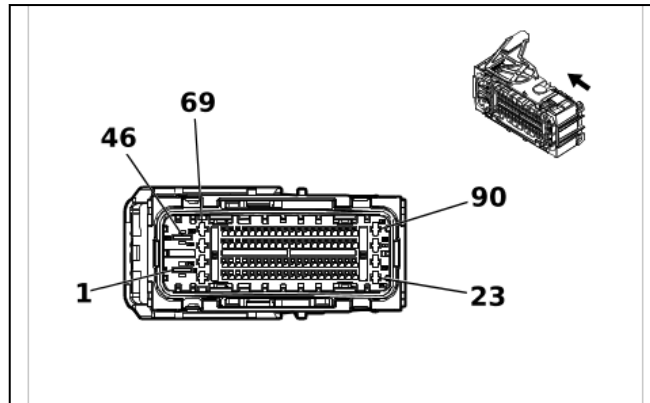
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13587518	J-35616-35 (VT)	J-38125-11A
II	19351723	J-35616-64B (L-BU)	J-38125-213

K20 Engine Control Module X1 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / WH	(1) 492	(1) Mass Air Flow Sensor Signal	(1) II	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) BU / GY	(3) 4054	(3) Private Serial Data Powertrain CAN Bus [-] Serial Data	(3) II	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) WH	(5) 4976	(5) AUTOSAR CAN Bus [-] 3 Serial Data	(5) II	(5) —
(6) 6	(6) 0.5	(6) WH / BU	(6) 6311	(6) Cruise/ETC/TCC Brake Signal	(6) II	(6) —
(7) 7	(7) 0.5	(7) WH	(7) 4978	(7) AUTOSAR CAN Bus [-] 2 Serial Data	(7) II	(7) —
8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0.5	(9) YE	(9) 5991	(9) Powertrain Relay Coil Control	(9) II	(9) —
10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.5	(11) YE	(11) 4063	(11) Hood Status A Signal	(11) II	(11) —
(12) 12	(12) 0.5	(12) BU / GY	(12) 636	(12) Ambient Air Temperature Sensor Signal	(12) II	(12) —
(13) 13	(13) 0.5	(13) WH	(13) 4055	(13) Private Serial Data Powertrain CAN Bus [+] Serial Data	(13) II	(13) —
(14) 14	(14) 0.5	(14) WH / GN	(14) 5380	(14) Brake Position Sensor Signal	(14) II	(14) —
(15) 15	(15) 0.5	(15) BU / BK	(15) 4977	(15) AUTOSAR CAN Bus [+] 3 Serial Data	(15) II	(15) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.5	(17) BU / YE	(17) 4979	(17) AUTOSAR CAN Bus [+] 2 Serial Data	(17) II	(17) —
(18) 18	(18) 0.5	(18) WH / GY	(18) 459	(18) Air Conditioning Compressor Clutch Relay Control	(18) II	(18) —
19 - 20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.5	(21) GN / BU	(21) 428	(21) EVAP Canister Purge Solenoid Control	(21) II	(21) —
(22) 22	(22) 0.5	(22) BN / GN	(22) 4305	(22) Exhaust Flow Control Valve 1	(22) II	(22) —
(23) 23	(23) 0.5	(23) BK / GN	(23) 580	(23) Engine Control Sensors Low Reference 2	(23) II	(23) —
(24) 24	(24) 0.5	(24) BK / BU	(24) 1271	(24) Accelerator Pedal Position Low Reference 1	(24) II	(24) —
25 - 26	—	—	—	Not Occupied	—	—
(27) 27	(27) 0.5	(27) GN / YE	(27) 3337	(27) Transmission Internal Mode Switch Mode Control Y	(27) II	(27) —
(28) 28	(28) 0.5	(28) BN / GN	(28) 1174	(28) Oil Level Switch Signal	(28) II	(28) —
29	—	—	—	Not Occupied	—	—
(30) 30	(30) 0.5	(30) BK / VT	(30) 1272	(30) Accelerator Pedal Position Low Reference 2	(30) II	(30) —
31	—	—	—	Not Occupied	—	—
(32) 32	(32) 0.7 5	(32) VT / BU	(32) 5291	(32) Powertrain Main Relay Fused Supply Voltage 2	(32) II	(32) —
33	—	—	—	Not Occupied	—	—
(34) 34	(34) 0.5	(34) RD / BN	(34) 440	(34) Battery Positive Voltage	(34) II	(34) —
35	—	—	—	Not Occupied	—	—
(36) 36	(36) 0.5	(36) YE / BK	(36) 625	(36) Starter Enable Relay Control	(36) II	(36) —
(37) 37	(37) 0.5	(37) GN / GY	(37) 465	(37) Fuel Pump Primary Relay Control	(37) II	(37) —
(38) 38	(38) 0.5	(38) WH / RD	(38) 1164	(38) Accelerator Pedal Position 5V Reference 1	(38) II	(38) —
(39) 39	(39) 0.5	(39) YE / WH	(39) 1161	(39) Accelerator Pedal Position Signal 1	(39) II	(39) —
(40) 40	(40) 0.5	(40) YE / BN	(40) 331	(40) Oil Pressure Sensor Signal	(40) II	(40) —
(41) 41	(41) 0.5	(41) GN	(41) 380	(41) Air Conditioning Refrigerant Pressure Sensor Signal	(41) II	(41) —
42 - 43	—	—	—	Not Occupied	—	—
(44) 44	(44) 0.5	(44) GN / WH	(44) 1162	(44) Accelerator Pedal Position Signal 2	(44) II	(44) —
(45) 45	(45) 0.5	(45) BN / RD	(45) 1274	(45) Accelerator Pedal Position 5V Reference 2	(45) II	(45) —
46	—	—	—	Not Occupied	—	—
(47) 47	(47) 0.5	(47) VT / GN	(47) 439	(47) Run/Crank Ignition 1 Voltage	(47) II	(47) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(48) 48	(48) 0.7 5	(48) VT / BU	(48) 5291	(48) Powertrain Main Relay Fused Supply Voltage 2	(48) II	(48) —
(49) 49	(49) 2	(49) VT / BU	(49) 5290	(49) Powertrain Main Relay Fused Supply Voltage 1	(49) I	(49) —

K20 Engine Control Module X1 (LZ0)

5492269

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2344715-1
- Service Connector: 84941451
- Description: 90-Way F 0.64 GEN-Y, 2.8, 6.3 MCP Series, Sealed(BK with BU Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19367373	J-35616-64B (L-BU)	J-38125-215A
II	19371214	J-35616-35 (VT)	J-38125-556
III	84616649	J-35616-42 (RD)	J-38125-556

K20 Engine Control Module X1 (LZ0)

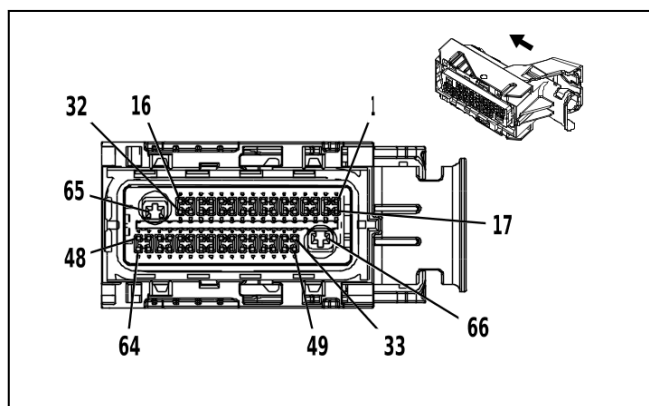
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 6	(1) BN / BU	(1) 104	(1) Glow Plug Control	(1) III	(1) —
(2) 2	(2) 2.5	(2) GY / YE	(2) 1584	(2) Glow Plug 4 Control	(2) II	(2) —
3 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.5	(6) WH / GY	(6) 459	(6) Air Conditioning Compressor Clutch Relay Control	(6) I	(6) —
(7) 7	(7) 0.75	(7) RD / BN	(7) 440	(7) Battery Positive Voltage	(7) I	(7) —
(8) 8	(8) 0.5	(8) GN / WH	(8) 492	(8) Mass Air Flow Sensor Signal	(8) I	(8) —
9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.5	(10) WH / BU	(10) 6311	(10) Cruise/ETC/TCC Brake Signal	(10) I	(10) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(11) 11	(11) 0.5	(11) GY	(11) 2973	(11) Coolant Flow Control Valve Position Signal	(11) I	(11) —
(12) 12	(12) 0.5	(12) GN / GY	(12) 7316	(12) Intake Manifold Runner Valve Actuator Control	(12) I	(12) —
(13) 13	(13) 0.5	(13) GN	(13) 1028 ₉	(13) Exhaust Gas Temperature Sensor SENT 1 Signal	(13) I	(13) —
(14) 14	(14) 0.5	(14) BU	(14) 1029 ₀	(14) Exhaust Gas Temperature Sensor SENT 2 Signal	(14) I	(14) —
(15) 15	(15) 0.5	(15) BN / GN	(15) 4305	(15) Exhaust Flow Control Valve 1	(15) I	(15) —
(16) 16	(16) 0.5	(16) WH	(16) 4055	(16) Private Serial Data Powertrain CAN Bus [+] Serial Data	(16) I	(16) —
(17) 17	(17) 0.5	(17) BU / BK	(17) 4977	(17) AUTOSAR CAN Bus [+] 3 Serial Data	(17) I	(17) —
(18) 18	(18) 0.5	(18) BU / YE	(18) 4979	(18) AUTOSAR CAN Bus [+] 2 Serial Data	(18) I	(18) —
(19) 19	(19) 0.5	(19) BK / GN	(19) 580	(19) Engine Control Sensors Low Reference 2	(19) I	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.7 ₅	(21) GY / BK	(21) 1330	(21) Variable Geometry Turbocharger Position Sensor Motor Close Control	(21) I	(21) —
(22) 22	(22) 0.7 ₅	(22) WH / BN	(22) 1313	(22) Variable Geometry Turbocharger Position Sensor Motor Open Control	(22) I	(22) —
(23) 23	(23) 2.5	(23) GY / GN	(23) 1583	(23) Glow Plug 3 Control	(23) II	(23) —
(24) 24	(24) 2.5	(24) GY / BN	(24) 1582	(24) Glow Plug 2 Control	(24) II	(24) —
(25) 25	(25) 0.7 ₅	(25) VT / GN	(25) 439	(25) Run/Crank Ignition 1 Voltage	(25) I	(25) —
(26) 26	(26) 0.5	(26) YE	(26) 5991	(26) Powertrain Relay Coil Control	(26) I	(26) —
27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.5	(28) GN / BN	(28) 507	(28) Wait To Start Indicator Control	(28) I	(28) —
29	—	—	—	Not Occupied	—	—
(30) 30	(30) 0.5	(30) BK / GY	(30) 626	(30) Engine Control Vehicle Sensors Low Reference 1	(30) I	(30) —
31 - 32	—	—	—	Not Occupied	—	—
(33) 33	(33) 0.5	(33) WH / BN	(33) 2363	(33) Exhaust Pressure Sensor SENT 1 Signal	(33) I	(33) —
(34) 34	(34) 0.5	(34) VT / YE	(34) 5947	(34) Turbocharger Vane Position Sensor Signal	(34) I	(34) —
(35) 35	(35) 0.5	(35) BN / WH	(35) 5763	(35) Exhaust Gas Recirculation Position Signal	(35) I	(35) —
(36) 36	(36) 0.5	(36) BU / GY	(36) 2978	(36) Coolant Diverter Valve Position Signal	(36) I	(36) —
(37) 37	(37) 0.5	(37) GN	(37) 1047 ₈	(37) Low Pressure Exhaust Gas Recirculation Sensor SENT Signal	(37) I	(37) —
(38) 38	(38) 0.5	(38) BU / GY	(38) 4054	(38) Private Serial Data Powertrain CAN Bus [-] Serial Data	(38) I	(38) —
(39) 39	(39) 0.5	(39) WH	(39) 4976	(39) AUTOSAR CAN Bus [-] 3 Serial Data	(39) I	(39) —
(40) 40	(40) 0.5	(40) WH	(40) 4978	(40) AUTOSAR CAN Bus [-] 2 Serial Data	(40) I	(40) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
41	—	—	—	Not Occupied	—	—
(42) 42	(42) 0.5	(42) YE / BK	(42) 625	(42) Starter Enable Relay Control	(42) I	(42) —
(43) 43	(43) 0.7 5	(43) VT / BK	(43) 5746	(43) Exhaust Gas Recirculation Valve Low Control	(43) I	(43) —
(44) 44	(44) 0.7 5	(44) WH / VT	(44) 5764	(44) Exhaust Gas Recirculation Valve High Control	(44) I	(44) —
(45) 45	(45) 2.5	(45) GY / WH	(45) 1585	(45) Glow Plug 5 Control	(45) II	(45) —
(46) 46	(46) 4	(46) BK / WH	(46) 251	(46) Signal Ground	(46) III	(46) —
(47) 47	(47) 2.5	(47) GY / VT	(47) 1586	(47) Glow Plug 6 Control	(47) II	(47) —
(48) 48	(48) 0.5	(48) WH / RD	(48) 480	(48) Engine Control Vehicle Sensors 5 Volt Reference 1	(48) I	(48) —
(49) 49	(49) 0.5	(49) GN / WH	(49) 1162	(49) Accelerator Pedal Position Signal 2	(49) I	(49) —
(50) 50	(50) 0.5	(50) BK / VT	(50) 1272	(50) Accelerator Pedal Position Low Reference 2	(50) I	(50) —
(51) 51	(51) 0.5	(51) BK / BU	(51) 1271	(51) Accelerator Pedal Position Low Reference 1	(51) I	(51) —
(52) 52	(52) 0.5	(52) WH / GN	(52) 5380	(52) Brake Position Sensor Signal	(52) I	(52) —
53 - 54	—	—	—	Not Occupied	—	—
(55) 55	(55) 0.5	(55) YE	(55) 4063	(55) Hood Status A Signal	(55) I	(55) —
56 - 58	—	—	—	Not Occupied	—	—
(59) 59	(59) 0.5	(59) GN	(59) 380	(59) Air Conditioning Refrigerant Pressure Sensor Signal	(59) I	(59) —
(60) 60	(60) 0.5	(60) YE / BN	(60) 331	(60) Oil Pressure Sensor Signal	(60) I	(60) —
(61) 61	(61) 0.5	(61) YE / GY	(61) 3926	(61) Crankcase Differential Pressure Sensor Signal	(61) I	(61) —
62 - 63	—	—	—	Not Occupied	—	—
(64) 64	(64) 0.5	(64) GN / BU	(64) 3889	(64) Powertrain Sensor Bus Relay Control	(64) I	(64) —
65	—	—	—	Not Occupied	—	—
(66) 66	(66) 0.7 5	(66) BN	(66) 1421	(66) Exhaust Restrictor Motor Closed Control	(66) I	(66) —
(67) 67	(67) 0.7 5	(67) YE / BN	(67) 1420	(67) Exhaust Restrictor Motor Open Control	(67) I	(67) —
(68) 68	(68) 2.5	(68) GY / BU	(68) 1581	(68) Glow Plug 1 Control	(68) II	(68) —
(69) 69	(69) 2.5	(69) VT / BU	(69) 5291	(69) Powertrain Main Relay Fused Supply Voltage 2	(69) II	(69) —
(70) 70	(70) 0.5	(70) BU / RD	(70) 460	(70) Engine Control Sensors 5 Volt Reference 1	(70) I	(70) —
(71) 71	(71) 0.5	(71) BN / RD	(71) 1274	(71) Accelerator Pedal Position 5V Reference 2	(71) I	(71) —
(72) 72	(72) 0.5	(72) WH / RD	(72) 1164	(72) Accelerator Pedal Position 5V Reference 1	(72) I	(72) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(73) 73	(73) 0.5	(73) YE / WH	(73) 1161	(73) Accelerator Pedal Position Signal 1	(73) I	(73) —
(74) 74	(74) 0.5	(74) BU / GY	(74) 636	(74) Ambient Air Temperature Sensor Signal	(74) I	(74) —
(75) 75	(75) 0.5	(75) VT	(75) 7485	(75) Engine Oil Temperature Sensor 2 Signal	(75) I	(75) —
76 - 85	—	—	—	Not Occupied	—	—
(86) 86	(86) 0.5	(86) GN / GY	(86) 465	(86) Fuel Pump Primary Relay Control	(86) I	(86) —
(87) 87	(87) 0.7 5	(87) VT / BU	(87) 5294	(87) Powertrain Main Relay Fused Supply Voltage 5	(87) I	(87) —
(88) 88	(88) 0.7 5	(88) GY / BN	(88) 2972	(88) Coolant Flow Control Actuator Control Close	(88) I	(88) —
(89) 89	(89) 0.7 5	(89) GY / BU	(89) 2971	(89) Coolant Flow Control Actuator Control Open	(89) I	(89) —
(90) 90	(90) 2.5	(90) VT / BU	(90) 5290	(90) Powertrain Main Relay Fused Supply Voltage 1	(90) II	(90) —

K20 Engine Control Module X1 (L3B)



4504420

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 216741-0003
- Service Connector: 85786016
- Description: 66-Way F 0.64, 2.8 Series, Sealed(BK with BU Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13587518	J-35616-35 (VT)	J-38125-11A
II	19351723	J-35616-64B (L-BU)	J-38125-213

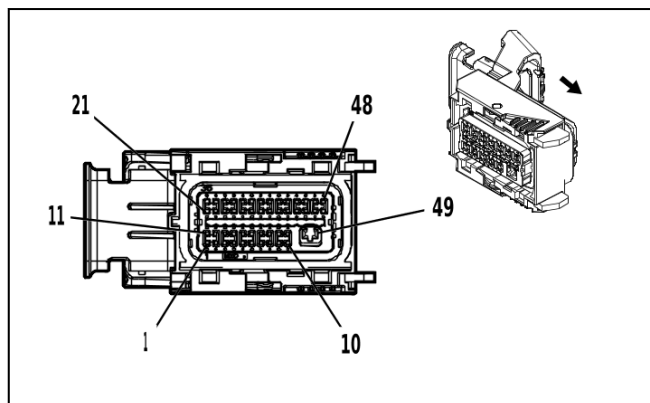
K20 Engine Control Module X1 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE	(1) 5991	(1) Powertrain Relay Coil Control	(1) II	(1) —
(2) 2	(2) 0.5	(2) YE / BK	(2) 625	(2) Starter Enable Relay Control	(2) II	(2) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(3) 3	(3) 0.5	(3) YE / VT	(3) 4325	(3) Starter Pinion Solenoid Actuator Relay Control	(3) II	(3) —
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.5	(6) VT / GY	(6) 3615	(6) Intake Camshaft Profile Actuator 1 Control A	(6) II	(6) —
(7) 7	(7) 0.5	(7) GN / BK	(7) 3616	(7) Intake Camshaft Profile Actuator 1 Control B	(7) II	(7) —
(8) 8	(8) 0.5	(8) GN	(8) 3585	(8) Intake Camshaft Profile Actuator 2 Control A	(8) II	(8) —
(9) 9	(9) 0.5	(9) BU	(9) 3584	(9) Intake Camshaft Profile Actuator 2 Control B	(9) II	(9) —
(10) 10	(10) 0.5	(10) YE / BU	(10) 3587	(10) Intake Camshaft Profile Actuator 3 Control A	(10) II	(10) —
(11) 11	(11) 0.5	(11) GY	(11) 3586	(11) Intake Camshaft Profile Actuator 3 Control B	(11) II	(11) —
(12) 12	(12) 0.5	(12) BU / WH	(12) 3589	(12) Intake Camshaft Profile Actuator 1 Position Sensor Signal	(12) II	(12) —
(13) 13	(13) 0.5	(13) GN / WH	(13) 3592	(13) Intake Camshaft Profile Actuator 2 Position Sensor Signal	(13) II	(13) —
(14) 14	(14) 0.5	(14) BK / GN	(14) 3593	(14) Intake Camshaft Profile Actuator 3 Position Sensor Signal	(14) II	(14) —
(15) 15	(15) 0.5	(15) WH / BU	(15) 6311	(15) Cruise/ETC/TCC Brake Signal	(15) II	(15) —
(16) 16	(16) 0.7 5	(16) VT / BU	(16) 5291	(16) Powertrain Main Relay Fused Supply Voltage 2	(16) II	(16) —
(17) 17	(17) 0.5	(17) GN / GY	(17) 465	(17) Fuel Pump Primary Relay Control	(17) II	(17) —
(18) 18	(18) 0.5	(18) WH / GY	(18) 459	(18) Air Conditioning Compressor Clutch Relay Control	(18) II	(18) —
19 - 21	—	—	—	Not Occupied	—	—
(22) 22	(22) 0.5	(22) GN / YE	(22) 1402	(22) Intake Camshaft Profile Actuator 4 Control A	(22) II	(22) —
(23) 23	(23) 0.5	(23) GY / YE	(23) 1502	(23) Intake Camshaft Profile Actuator 4 Control B	(23) II	(23) —
(24) 24	(24) 0.5	(24) YE / VT	(24) 6265	(24) Exhaust Camshaft Profile Actuator 2 Control B	(24) II	(24) —
(25) 25	(25) 0.5	(25) VT / BK	(25) 6264	(25) Exhaust Camshaft Profile Actuator 2 Control A	(25) II	(25) —
(26) 26	(26) 0.5	(26) GY / BN	(26) 6262	(26) Exhaust Camshaft Profile Actuator 3 Control B	(26) II	(26) —
(27) 27	(27) 0.5	(27) GN / BN	(27) 6261	(27) Exhaust Camshaft Profile Actuator 3 Control A	(27) II	(27) —
(28) 28	(28) 0.5	(28) YE / BN	(28) 1702	(28) Intake Camshaft Profile Actuator 4 Position Sensor Signal	(28) II	(28) —
(29) 29	(29) 0.5	(29) GN / BK	(29) 6266	(29) Exhaust Camshaft Profile Actuator 2 Position Sensor Signal	(29) II	(29) —
(30) 30	(30) 0.5	(30) YE	(30) 6263	(30) Exhaust Camshaft Profile Actuator 3 Position Sensor Signal	(30) II	(30) —
31	—	—	—	Not Occupied	—	—
(32) 32	(32) 0.5	(32) VT / GN	(32) 439	(32) Run/Crank Ignition 1 Voltage	(32) II	(32) —
(33) 33	(33) 0.5	(33) BK / BU	(33) 1271	(33) Accelerator Pedal Position Low Reference 1	(33) II	(33) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(34) 34	(34) 0.5	(34) YE / WH	(34) 3746	(34) Camshaft Exhaust Lobe Axial Position Signal 1	(34) II	(34) —
(35) 35	(35) 0.5	(35) BK / VT	(35) 1272	(35) Accelerator Pedal Position Low Reference 2	(35) II	(35) —
(36) 36	(36) 0.5	(36) YE / GN	(36) 3747	(36) Camshaft Exhaust Lobe Axial Position Signal 2	(36) II	(36) —
37	—	—	—	Not Occupied	—	—
(38) 38	(38) 0.5	(38) YE	(38) 4063	(38) Hood Status A Signal	(38) II	(38) —
(39) 39	(39) 0.5	(39) YE / WH	(39) 1161	(39) Accelerator Pedal Position Signal 1	(39) II	(39) —
40 - 41	—	—	—	Not Occupied	—	—
(42) 42	(42) 0.5	(42) GN / BN	(42) 2732	(42) Engine Control Module LIN Bus 4	(42) II	(42) —
43 - 44	—	—	—	Not Occupied	—	—
(45) 45	(45) 0.5	(45) BU / GY	(45) 4054	(45) Private Serial Data Powertrain CAN Bus [-] Serial Data	(45) II	(45) —
(46) 46	(46) 0.5	(46) WH	(46) 4055	(46) Private Serial Data Powertrain CAN Bus [+] Serial Data	(46) II	(46) —
(47) 47	(47) 0.5	(47) GN / WH	(47) 492	(47) Mass Air Flow Sensor Signal	(47) II	(47) —
(48) 48	(48) 0.5	(48) RD / BN	(48) 440	(48) Battery Positive Voltage	(48) II	(48) —
(49) 49	(49) 0.5	(49) WH / RD	(49) 1164	(49) Accelerator Pedal Position 5V Reference 1	(49) II	(49) —
(50) 50	(50) 0.5	(50) VT / WH	(50) 3744	(50) Camshaft Intake Lobe Axial Position Signal 1	(50) II	(50) —
(51) 51	(51) 0.5	(51) BN / RD	(51) 1274	(51) Accelerator Pedal Position 5V Reference 2	(51) II	(51) —
(52) 52	(52) 0.5	(52) VT / GN	(52) 3745	(52) Camshaft Intake Lobe Axial Position Signal 2	(52) II	(52) —
(53) 53	(53) 0.5	(53) BU / GY	(53) 636	(53) Ambient Air Temperature Sensor Signal	(53) II	(53) —
54	—	—	—	Not Occupied	—	—
(55) 55	(55) 0.5	(55) GN	(55) 380	(55) Air Conditioning Refrigerant Pressure Sensor Signal	(55) II	(55) —
(56) 56	(56) 0.5	(56) WH / GN	(56) 5380	(56) Brake Position Sensor Signal	(56) II	(56) —
(57) 57	(57) 0.5	(57) GN / WH	(57) 1162	(57) Accelerator Pedal Position Signal 2	(57) II	(57) —
58	—	—	—	Not Occupied	—	—
(59) 59	(59) 0.5	(59) WH	(59) 4978	(59) AUTOSAR CAN Bus [-] 2 Serial Data	(59) II	(59) —
(60) 60	(60) 0.5	(60) BU / YE	(60) 4979	(60) AUTOSAR CAN Bus [+] 2 Serial Data	(60) II	(60) —
61 - 62	—	—	—	Not Occupied	—	—
(63) 63	(63) 0.5	(63) WH	(63) 4976	(63) AUTOSAR CAN Bus [-] 3 Serial Data	(63) II	(63) —
(64) 64	(64) 0.5	(64) BU / BK	(64) 4977	(64) AUTOSAR CAN Bus [+] 3 Serial Data	(64) II	(64) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(65) 65	(65) 2	(65) BK / WH	(65) 251	(65) Signal Ground	(65) I	(65) —
(66) 66	(66) 2	(66) VT / BU	(66) 5290	(66) Powertrain Main Relay Fused Supply Voltage 1	(66) I	(66) —

K20 Engine Control Module X2 (L3B)

4596458

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 216744-0001
- Service Connector: 85786015
- Description: 49-Way F 0.64, 2.8 Series, Sealed(BK with BK Terminal Position Assurance)

Terminal Part Information

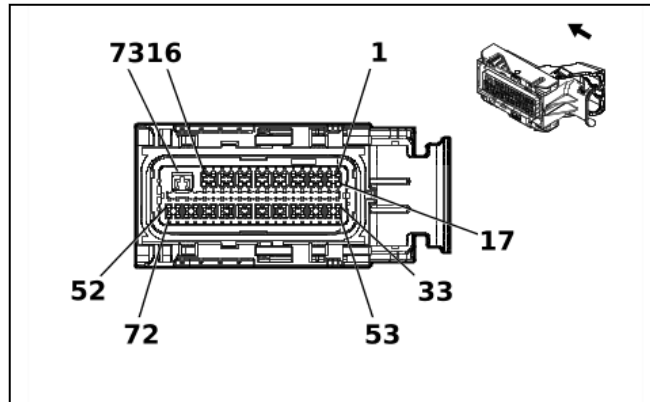
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13587518	J-35616-35 (VT)	J-38125-11A
II	19351723	J-35616-64B (L-BU)	J-38125-213

K20 Engine Control Module X2 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / GN	(1) 4320	(1) Powertrain Sensor Bus Enable	(1) II	(1) —
(2) 2	(2) 0.5	(2) BU / RD	(2) 460	(2) Engine Control Sensors 5 Volt Reference 1	(2) II	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) BN / BU	(5) 2447	(5) Evaporative Purge Pump Pressure Signal	(5) II	(5) —
6 - 8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0.75	(9) VT / BU	(9) 5294	(9) Powertrain Main Relay Fused Supply Voltage 5	(9) II	(9) —
(10) 10	(10) 0.5	(10) BU / GY	(10) 2978	(10) Coolant Diverter Valve Position Signal	(10) II	(10) —
11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0.5	(12) BK / GN	(12) 580	(12) Engine Control Sensors Low Reference 2	(12) II	(12) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
13 - 14	—	—	—	Not Occupied	—	—
(15) 15	(15) 0.5	(15) GN / YE	(15) 3337	(15) Transmission Internal Mode Switch Mode Control Y	(15) II	(15) —
(16) 16	(16) 0.5	(16) YE / BN	(16) 331	(16) Oil Pressure Sensor Signal	(16) II	(16) —
17 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.5	(19) BU / WH	(19) 1078 6	(19) Fuel Rail Pressure Sensor SENT 1 Signal	(19) II	(19) —
(20) 20	(20) 0.5	(20) WH	(20) 2590	(20) Turbocharger Wastegate Motor Feedback Signal	(20) II	(20) —
21	—	—	—	Not Occupied	—	—
(22) 22	(22) 0.5	(22) BK / GY	(22) 626	(22) Engine Control Vehicle Sensors Low Reference 1	(22) II	(22) —
(23) 23	(23) 0.5	(23) VT	(23) 7485	(23) Engine Oil Temperature Sensor 2 Signal	(23) II	(23) —
(24) 24	(24) 0.5	(24) BN / BU	(24) 357	(24) Oil Temperature Sensor Signal	(24) II	(24) —
(25) 25	(25) 0.5	(25) YE / WH	(25) 3200	(25) Throttle Inlet Absolute Pressure Sensor Signal	(25) II	(25) —
26 - 28	—	—	—	Not Occupied	—	—
(29) 29	(29) 0.5	(29) YE / GY	(29) 3926	(29) Crankcase Differential Pressure Sensor Signal	(29) II	(29) —
30	—	—	—	Not Occupied	—	—
(31) 31	(31) 0.5	(31) YE / GY	(31) 6936	(31) HO2S Signal	(31) II	(31) —
(32) 32	(32) 0.5	(32) BN	(32) 6934	(32) HO2S Ground	(32) II	(32) —
(33) 33	(33) 0.5	(33) GN / YE	(33) 4623	(33) Engine Control Module LIN Bus 3	(33) II	(33) —
(34) 34	(34) 0.5	(34) GY / WH	(34) 3113	(34) HO2S Heater Low Control Bank 1 Sensor 1	(34) II	(34) —
35	—	—	—	Not Occupied	—	—
(36) 36	(36) 0.5	(36) WH / RD	(36) 480	(36) Engine Control Vehicle Sensors 5 Volt Reference 1	(36) II	(36) —
(37) 37	(37) 0.5	(37) YE / BK	(37) 3000	(37) Coolant Temperature Sensor 2 Signal	(37) II	(37) —
38 - 39	—	—	—	Not Occupied	—	—
(40) 40	(40) 0.5	(40) GY / VT	(40) 2404	(40) Engine Block Coolant Temperature Signal	(40) II	(40) —
41 - 44	—	—	—	Not Occupied	—	—
(45) 45	(45) 0.5	(45) GN	(45) 6935	(45) HO2S Pump Current Trim Signal	(45) II	(45) —
(46) 46	(46) 0.5	(46) BN / WH	(46) 6933	(46) HO2S Pump Current Signal	(46) II	(46) —
(47) 47	(47) 0.5	(47) GN / VT	(47) 4621	(47) Engine Control Module LIN Bus 1	(47) II	(47) —
(48) 48	(48) 0.5	(48) GN / YE	(48) 4622	(48) Engine Control Module LIN Bus 2	(48) II	(48) —
(49) 49	(49) 2	(49) BK / WH	(49) 251	(49) Signal Ground	(49) I	(49) —

K20 Engine Control Module X2 (L84 / L87)



1673472

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 216739-0001
- Service Connector: 85761019
- Description: 73-Way F 0.64, 2.8 Series, Sealed(BK with BK Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13587518	J-35616-35 (VT)	J-38125-11A
II	19354746	J-35616-64B (L-BU)	J-38125-213

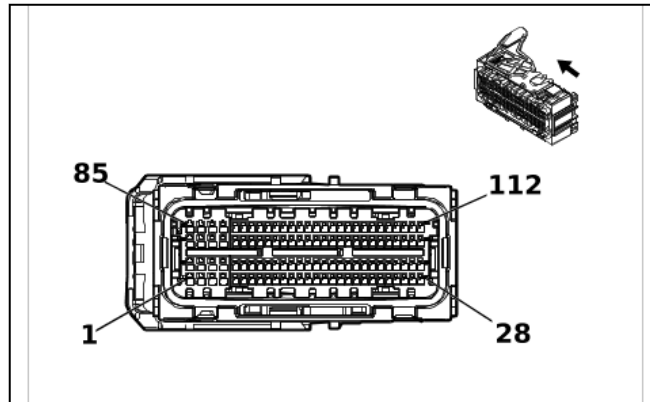
K20 Engine Control Module X2 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / YE	(1) 3212	(1) HO2S Heater Low Control Bank 2 Sensor 1	(1) II	(1) —
(2) 2	(2) 0.5	(2) GY	(2) 5493	(2) Cylinder Deactivation Solenoid Valve Control 3	(2) II	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 548	(3) Engine Control Sensors Low Reference 1	(3) II	(3) —
4 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) GN / YE	(7) 4622	(7) Engine Control Module LIN Bus 2	(7) II	(7) —
(8) 8	(8) 0.5	(8) GN / VT	(8) 4621	(8) Engine Control Module LIN Bus 1	(8) II	(8) —
(9) 9	(9) 0.5	(9) BU / WH	(9) 4306	(9) Exhaust Flow Control Valve 1 - Cylinder Deactivation Feedback Signal	(9) II	(9) —
(10) 10	(10) 0.5	(10) VT / GY	(10) 3110	(10) HO2S High Signal Bank 1 Sensor 1	(10) II	(10) —
(11) 11	(11) 0.5	(11) WH / BK	(11) 3111	(11) HO2S Low Signal Bank 1 Sensor 1	(11) II	(11) —
(12) 12	(12) 0.5	(12) YE / BU	(12) 2124	(12) Ignition Control 4	(12) II	(12) —
(13) 13	(13) 0.5	(13) BN / BU	(13) 2126	(13) Ignition Control 6	(13) II	(13) —
(14) 14	(14) 0.5	(14) VT / BU	(14) 5294	(14) Powertrain Main Relay Fused Supply Voltage 5	(14) II	(14) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(15) 15	(15) 0.5	(15) VT / BU	(15) 5294	(15) Powertrain Main Relay Fused Supply Voltage 5	(15) II	(15) —
(16) 16	(16) 0.5	(16) VT / BU	(16) 5294	(16) Powertrain Main Relay Fused Supply Voltage 5	(16) II	(16) —
(17) 17	(17) 0.5	(17) GY / WH	(17) 3113	(17) HO2S Heater Low Control Bank 1 Sensor 1	(17) II	(17) —
(18) 18	(18) 0.5	(18) YE / GY	(18) 2493	(18) Cylinder Shutoff Solenoid Enable Signal 3	(18) II	(18) —
19 - 21	—	—	—	Not Occupied	—	—
(22) 22	(22) 0.5	(22) GN	(22) 6935	(22) HO2S Pump Current Trim Signal	(22) II	(22) —
(23) 23	(23) 0.5	(23) BN / WH	(23) 6933	(23) HO2S Pump Current Signal	(23) II	(23) —
(24) 24	(24) 0.5	(24) BN	(24) 6934	(24) HO2S Ground	(24) II	(24) —
(25) 25	(25) 0.5	(25) YE / GY	(25) 6936	(25) HO2S Signal	(25) II	(25) —
(26) 26	(26) 0.5	(26) VT / WH	(26) 3210	(26) HO2S High Signal Bank 2 Sensor 1	(26) II	(26) —
(27) 27	(27) 0.5	(27) YE / WH	(27) 3211	(27) HO2S Low Signal Bank 2 Sensor 1	(27) II	(27) —
(28) 28	(28) 0.5	(28) GN / BU	(28) 2123	(28) Ignition Control 3	(28) II	(28) —
(29) 29	(29) 0.5	(29) BU / GY	(29) 2125	(29) Ignition Control 5	(29) II	(29) —
(30) 30	(30) 0.5	(30) BK / GY	(30) 2130	(30) Ignition Control Low Reference Bank 2	(30) II	(30) —
(31) 31	(31) 0.5	(31) BN	(31) 5496	(31) Cylinder Deactivation Solenoid Valve Control 6	(31) II	(31) —
(32) 32	(32) 0.5	(32) YE / BN	(32) 2496	(32) Cylinder Shutoff Solenoid Enable Signal 6	(32) II	(32) —
(33) 33	(33) 0.5	(33) WH / BN	(33) 3223	(33) HO2S Heater Low Control Bank 2 Sensor 2	(33) II	(33) —
34	—	—	—	Not Occupied	—	—
(35) 35	(35) 0.5	(35) BU	(35) 179	(35) Engine Oil Pump Control	(35) II	(35) —
(36) 36	(36) 0.5	(36) YE / GN	(36) 2494	(36) Cylinder Shutoff Solenoid Enable Signal 4	(36) II	(36) —
(37) 37	(37) 0.5	(37) VT / BU	(37) 5294	(37) Powertrain Main Relay Fused Supply Voltage 5	(37) II	(37) —
38	—	—	—	Not Occupied	—	—
(39) 39	(39) 0.5	(39) WH / RD	(39) 480	(39) Engine Control Vehicle Sensors 5 Volt Reference 1	(39) II	(39) —
40 - 45	—	—	—	Not Occupied	—	—
(46) 46	(46) 0.5	(46) YE / BU	(46) 3221	(46) HO2S Low Signal Bank 2 Sensor 2	(46) II	(46) —
(47) 47	(47) 0.5	(47) VT / GN	(47) 3220	(47) HO2S High Signal Bank 2 Sensor 2	(47) II	(47) —
(48) 48	(48) 0.5	(48) BU	(48) 2572	(48) Heated Oxygen Sensor 2 Current Adjust Signal	(48) II	(48) —
(49) 49	(49) 0.5	(49) YE / WH	(49) 2570	(49) Heated Oxygen Sensor 2 Pump Current Signal	(49) II	(49) —
(50) 50	(50) 0.7 5	(50) BK / GY	(50) 2303	(50) Knock Sensor Low Reference 2	(50) II	(50) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(51) 51	(51) 0.7 5	(51) BK / YE	(51) 1716	(51) Knock Sensor Low Reference 1	(51) II	(51) —
(52) 52	(52) 0.5	(52) BN / WH	(52) 582	(52) Throttle Actuator Close Control	(52) II	(52) —
(53) 53	(53) 0.5	(53) GY / WH	(53) 3122	(53) HO2S Heater Low Control Bank 1 Sensor 2	(53) II	(53) —
(54) 54	(54) 0.5	(54) VT	(54) 5495	(54) Cylinder Deactivation Solenoid Valve Control 5	(54) II	(54) —
(55) 55	(55) 0.5	(55) WH / VT	(55) 2495	(55) Cylinder Shutoff Solenoid Enable Signal 5	(55) II	(55) —
(56) 56	(56) 0.5	(56) YE / BU	(56) 5494	(56) Cylinder Deactivation Solenoid Valve Control 4	(56) II	(56) —
(57) 57	(57) 0.5	(57) GN	(57) 5492	(57) Cylinder Deactivation Solenoid Valve Control 2	(57) II	(57) —
(58) 58	(58) 0.5	(58) WH / GN	(58) 2492	(58) Cylinder Shutoff Solenoid Enable Signal 2	(58) II	(58) —
(59) 59	(59) 0.5	(59) BU / RD	(59) 460	(59) Engine Control Sensors 5 Volt Reference 1	(59) II	(59) —
60 - 65	—	—	—	Not Occupied	—	—
(66) 66	(66) 0.5	(66) WH / YE	(66) 3121	(66) HO2S Low Signal Bank 1 Sensor 2	(66) II	(66) —
(67) 67	(67) 0.5	(67) VT / BU	(67) 3120	(67) HO2S High Signal Bank 1 Sensor 2	(67) II	(67) —
(68) 68	(68) 0.5	(68) WH	(68) 2571	(68) Heated Oxygen Sensor 2 Common Bank 2 Sensor 1 Signal	(68) II	(68) —
(69) 69	(69) 0.5	(69) BN / GY	(69) 2573	(69) Heated Oxygen Sensor 2 Collector Signal	(69) II	(69) —
(70) 70	(70) 0.7 5	(70) WH / GY	(70) 1876	(70) Knock Sensor 2 Signal	(70) II	(70) —
(71) 71	(71) 0.7 5	(71) VT / GY	(71) 496	(71) Knock Sensor 1 Signal	(71) II	(71) —
(72) 72	(72) 0.5	(72) YE	(72) 581	(72) Throttle Actuator Open Control	(72) II	(72) —
(73) 73	(73) 2.5	(73) BK / WH	(73) 251	(73) Signal Ground	(73) I	(73) —

K20 Engine Control Module X2 (LZ0)



5491584

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2344717-2
- Service Connector: 84941452
- Description: 112-Way F 0.64 GEN-Y, 1.2 MCON Series, Sealed(BK with BK Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19367373	J-35616-64B (L-BU)	J-38125-215A
II	84963773	J-35616-12 (BU)	J-38125-215A

K20 Engine Control Module X2 (LZ0)

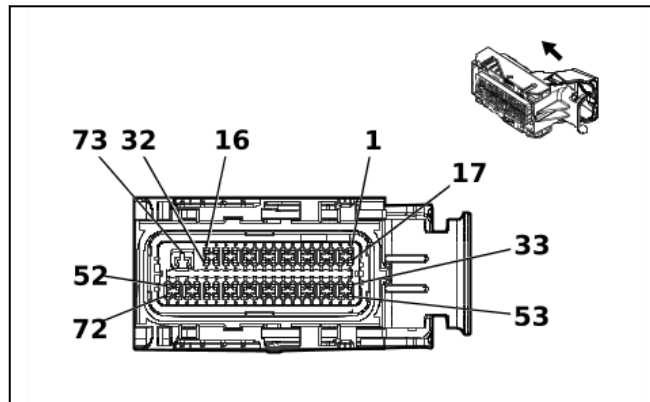
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) GN	(1) 4803	(1) Direct Fuel Injector High Voltage Control Cylinder 3	(1) II	(1) —
(2) 2	(2) 1.5	(2) GY / BU	(2) 4804	(2) Direct Fuel Injector High Voltage Control Cylinder 4	(2) II	(2) —
(3) 3	(3) 0.75	(3) YE / VT	(3) 2420	(3) Fuel High Pressure Pump Low Enable Signal	(3) II	(3) —
(4) 4	(4) 0.75	(4) YE / VT	(4) 7245	(4) High Pressure Fuel Pump Low Enable Signal	(4) II	(4) —
(5) 5	(5) 0.5	(5) GY / YE	(5) 5297	(5) Exhaust Camshaft Position Sensor 1 Voltage Reference	(5) I	(5) —
(6) 6	(6) 0.5	(6) GN	(6) 6271	(6) Crankshaft Position Sensor Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) VT / BU	(7) 6270	(7) Crankshaft Position Sensor Voltage	(7) I	(7) —
8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0.5	(9) BN	(9) 25	(9) Charge Indicator Control	(9) I	(9) —
(10) 10	(10) 0.75	(10) BU / YE	(10) 11616	(10) Diesel Exhaust Fluid Dosing Valve Low Control 2	(10) I	(10) —
(11) 11	(11) 0.5	(11) BK / GN	(11) 3235	(11) Exhaust Gas Recirculation Temperature Sensor 3 Low Reference	(11) I	(11) —
(12) 12	(12) 0.5	(12) YE / BU	(12) 3680	(12) Charge Air Cooler Outlet Temperature Sensor Low Reference	(12) I	(12) —
(13) 13	(13) 0.5	(13) YE / BK	(13) 3682	(13) Charge Air Cooler Inlet Temperature Sensor Low Reference	(13) I	(13) —
14 - 22	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(23) 23	(23) 0.7 5	(23) BN / WH	(23) 3100	(23) Diesel Exhaust Fluid Dosing Valve Low Control	(23) I	(23) —
(24) 24	(24) 0.5	(24) BK / YE	(24) 2834	(24) Fuel Rail Pressure Solenoid Valve Low Control	(24) I	(24) —
(25) 25	(25) 0.5	(25) BU	(25) 179	(25) Engine Oil Pump Control	(25) I	(25) —
26	—	—	—	Not Occupied	—	—
(27) 27	(27) 0.7 5	(27) BN / WH	(27) 582	(27) Throttle Actuator Close Control	(27) I	(27) —
(28) 28	(28) 0.7 5	(28) YE	(28) 581	(28) Throttle Actuator Open Control	(28) I	(28) —
(29) 29	(29) 1.5	(29) GN / GY	(29) 4903	(29) Direct Fuel Injector High Voltage Supply Cylinder 3	(29) II	(29) —
(30) 30	(30) 1.5	(30) BU / WH	(30) 4904	(30) Direct Fuel Injector High Voltage Supply Cylinder 4	(30) II	(30) —
(31) 31	(31) 0.7 5	(31) GY / BN	(31) 2419	(31) Fuel High Pressure Pump High Side Supply Voltage	(31) II	(31) —
(32) 32	(32) 0.7 5	(32) GY / BN	(32) 7244	(32) High Pressure Fuel Pump High Side Control	(32) II	(32) —
(33) 33	(33) 0.5	(33) BK / GY	(33) 5296	(33) Exhaust Camshaft Position Sensor Low Reference 1	(33) I	(33) —
(34) 34	(34) 0.5	(34) VT / BK	(34) 5273	(34) Exhaust Camshaft Position Sensor 1	(34) I	(34) —
(35) 35	(35) 0.5	(35) BK / VT	(35) 6272	(35) Crankshaft Position Sensor Low Reference	(35) I	(35) —
36	—	—	—	Not Occupied	—	—
(37) 37	(37) 0.5	(37) BU	(37) 3017	(37) Fuel Heater Relay 1 Control	(37) I	(37) —
38	—	—	—	Not Occupied	—	—
(39) 39	(39) 0.5	(39) WH / GY	(39) 3234	(39) Exhaust Gas Recirculation Temperature Sensor 3 Signal	(39) I	(39) —
(40) 40	(40) 0.5	(40) BN	(40) 3681	(40) Charge Air Cooler Outlet Temperature Sensor Signal	(40) I	(40) —
(41) 41	(41) 0.5	(41) GN	(41) 3683	(41) Charge Air Cooler Inlet Temperature Sensor Signal	(41) I	(41) —
42 - 48	—	—	—	Not Occupied	—	—
(49) 49	(49) 0.7 5	(49) BU	(49) 1161 5	(49) Diesel Exhaust Fluid Dosing Valve High Control 2	(49) I	(49) —
50	—	—	—	Not Occupied	—	—
(51) 51	(51) 0.7 5	(51) BN	(51) 3099	(51) Diesel Exhaust Fluid Dosing Valve High Control	(51) I	(51) —
(52) 52	(52) 0.5	(52) BU / WH	(52) 2530	(52) Fuel Rail Pressure Solenoid Valve Control	(52) I	(52) —
(53) 53	(53) 0.5	(53) YE / BN	(53) 106	(53) Oil Pump Motor Control	(53) I	(53) —
54	—	—	—	Not Occupied	—	—
(55) 55	(55) 0.7 5	(55) BK / BU	(55) 1408	(55) Variable Swirl Valve Close Control	(55) I	(55) —
(56) 56	(56) 0.7 5	(56) BK / GN	(56) 1389	(56) Variable Swirl Valve Open Control	(56) I	(56) —
(57) 57	(57) 1.5	(57) VT / GY	(57) 4906	(57) Direct Fuel Injector High Voltage Supply Cylinder 6	(57) II	(57) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(58) 58	(58) 1.5	(58) BN / WH	(58) 4901	(58) Direct Fuel Injector High Voltage Supply Cylinder 1	(58) II	(58) —
(59) 59	(59) 1.5	(59) GN / WH	(59) 4905	(59) Direct Fuel Injector High Voltage Supply Cylinder 5	(59) II	(59) —
(60) 60	(60) 1.5	(60) BU / GY	(60) 4902	(60) Direct Fuel Injector High Voltage Supply Cylinder 2	(60) II	(60) —
61	—	—	—	Not Occupied	—	—
(62) 62	(62) 0.5	(62) GN / YE	(62) 3337	(62) Transmission Internal Mode Switch Mode Control Y	(62) I	(62) —
63 - 65	—	—	—	Not Occupied	—	—
(66) 66	(66) 0.5	(66) BN / RD	(66) 2917	(66) Fuel Rail Pressure Sensor 5V Reference	(66) I	(66) —
(67) 67	(67) 0.5	(67) BK / GN	(67) 2919	(67) Fuel Rail Pressure Sensor Low Reference	(67) I	(67) —
68	—	—	—	Not Occupied	—	—
(69) 69	(69) 0.5	(69) BN / BU	(69) 357	(69) Oil Temperature Sensor Signal	(69) I	(69) —
(70) 70	(70) 0.5	(70) YE / BK	(70) 3000	(70) Coolant Temperature Sensor 2 Signal	(70) I	(70) —
71 - 72	—	—	—	Not Occupied	—	—
(73) 73	(73) 0.5	(73) WH / BU	(73) 7329	(73) Pre-Throttle Air Temperature Signal	(73) I	(73) —
74	—	—	—	Not Occupied	—	—
(75) 75	(75) 0.5	(75) BK / YE	(75) 548	(75) Engine Control Sensors Low Reference 1	(75) I	(75) —
(76) 76	(76) 0.5	(76) GN / VT	(76) 4621	(76) Engine Control Module LIN Bus 1	(76) I	(76) —
(77) 77	(77) 0.5	(77) GN / YE	(77) 4622	(77) Engine Control Module LIN Bus 2	(77) I	(77) —
(78) 78	(78) 0.5	(78) GN / YE	(78) 4623	(78) Engine Control Module LIN Bus 3	(78) I	(78) —
79 - 82	—	—	—	Not Occupied	—	—
(83) 83	(83) 0.7 5	(83) BU / BN	(83) 2977	(83) Coolant Diverter Valve Actuator Control Close	(83) I	(83) —
(84) 84	(84) 0.7 5	(84) BU	(84) 2976	(84) Coolant Diverter Valve Actuator Control Open	(84) I	(84) —
(85) 85	(85) 1.5	(85) VT / GN	(85) 4806	(85) Direct Fuel Injector High Voltage Control Cylinder 6	(85) II	(85) —
(86) 86	(86) 1.5	(86) BN	(86) 4801	(86) Direct Fuel Injector High Voltage Control Cylinder 1	(86) II	(86) —
(87) 87	(87) 1.5	(87) BU	(87) 4802	(87) Direct Fuel Injector High Voltage Control Cylinder 2	(87) II	(87) —
(88) 88	(88) 1.5	(88) WH / GN	(88) 4805	(88) Direct Fuel Injector High Voltage Control Cylinder 5	(88) II	(88) —
89	—	—	—	Not Occupied	—	—
(90) 90	(90) 0.5	(90) BU / WH	(90) 3630	(90) Throttle Position Sensor SENT 1 Signal	(90) I	(90) —
(91) 91	(91) 0.5	(91) BU / GN	(91) 4012	(91) Exhaust Gas Recirculation 2 Valve Position Sensor Signal	(91) I	(91) —
(92) 92	(92) 0.5	(92) GY	(92) 23	(92) Generator Field Duty Cycle Signal	(92) I	(92) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
93	—	—	—	Not Occupied	—	—
(94) 94	(94) 0.5	(94) BU / WH	(94) 2918	(94) Fuel Rail Pressure Sensor Signal	(94) I	(94) —
(95) 95	(95) 0.5	(95) YE / BU	(95) 2408	(95) Engine Inlet Coolant Temperature Signal	(95) I	(95) —
(96) 96	(96) 0.5	(96) BN / YE	(96) 2161	(96) Fuel Rail Pressure Sensor 2 Signal	(96) I	(96) —
(97) 97	(97) 0.5	(97) VT	(97) 2988	(97) Engine Outlet Coolant Temperature Signal	(97) I	(97) —
98 - 100	—	—	—	Not Occupied	—	—
(101) 101	(101) 0.5	(101) GN / WH	(101) 432	(101) Manifold Absolute Pressure Sensor Signal	(101) I	(101) —
(102) 102	(102) 0.5	(102) GN / YE	(102) 37	(102) Engine Block Temperature Sensor Signal	(102) I	(102) —
(103) 103	(103) 0.5	(103) BU / BK	(103) 142 2	(103) Engine Water Charge Air Coolant Temperature Signal	(103) I	(103) —
104 - 110	—	—	—	Not Occupied	—	—
(111) 111	(111) 0.75	(111) BU / BN	(111) 401 3	(111) Exhaust Gas Recirculation 2 Valve Close Control	(111) I	(111) —
(112) 112	(112) 0.75	(112) BU / WH	(112) 401 4	(112) Exhaust Gas Recirculation 2 Valve Open Control	(112) I	(112) —

K20 Engine Control Module X3 (L3B)



1650395

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 216739-0002
- Service Connector: 85761016
- Description: 73-Way F 0.64, 2.8 Series, Sealed(BK with GY Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13587518	J-35616-35 (VT)	J-38125-11A
II	19354746	J-35616-64B (L-BU)	J-38125-213

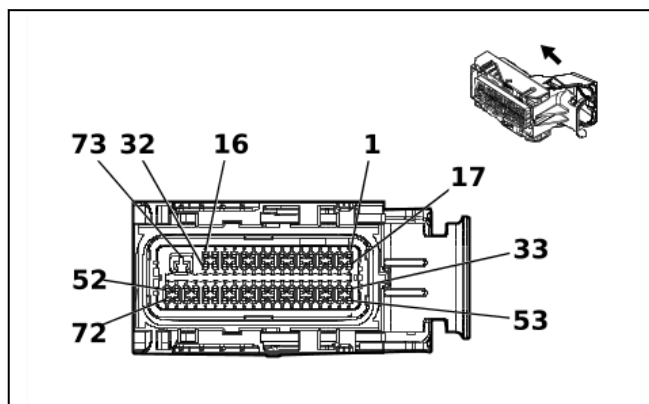
K20 Engine Control Module X3 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.5	(2) GN	(2) 3060	(2) Turbocharger Bypass Solenoid Valve Control Bank 1	(2) II	(2) —
(3) 3	(3) 0.5	(3) BN	(3) 25	(3) Charge Indicator Control	(3) II	(3) —
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.5	(6) VT / BU	(6) 6270	(6) Crankshaft Position Sensor Voltage	(6) II	(6) —
(7) 7	(7) 0.5	(7) BN / RD	(7) 2701	(7) Throttle Position Sensor 5V Reference	(7) II	(7) —
8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0.5	(9) GN / WH	(9) 432	(9) Manifold Absolute Pressure Sensor Signal	(9) II	(9) —
(10) 10	(10) 0.5	(10) VT / BU	(10) 3120	(10) HO2S High Signal Bank 1 Sensor 2	(10) II	(10) —
(11) 11	(11) 0.5	(11) WH / YE	(11) 3121	(11) HO2S Low Signal Bank 1 Sensor 2	(11) II	(11) —
(12) 12	(12) 0.5	(12) VT / BN	(12) 5284	(12) Intake Camshaft Position Actuator Solenoid Valve 1	(12) II	(12) —
(13) 13	(13) 0.5	(13) GY / BU	(13) 5282	(13) Exhaust Camshaft Position Actuator Solenoid Valve 1	(13) II	(13) —
(14) 14	(14) 0.7 5	(14) BU	(14) 2976	(14) Coolant Diverter Valve Actuator Control Open	(14) II	(14) —
(15) 15	(15) 0.7 5	(15) WH / BN	(15) 2591	(15) Turbocharger Wastegate Motor Open Control	(15) II	(15) —
(16) 16	(16) 0.7 5	(16) WH / BU	(16) 2592	(16) Turbocharger Wastegate Motor Close Control	(16) II	(16) —
17 - 20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.5	(21) BK / YE	(21) 548	(21) Engine Control Sensors Low Reference 1	(21) II	(21) —
(22) 22	(22) 0.5	(22) BK / VT	(22) 6272	(22) Crankshaft Position Sensor Low Reference	(22) II	(22) —
(23) 23	(23) 0.5	(23) BK / BN	(23) 2752	(23) Throttle Position Sensor Low Reference	(23) II	(23) —
(24) 24	(24) 0.5	(24) YE / BU	(24) 2408	(24) Engine Inlet Coolant Temperature Signal	(24) II	(24) —
(25) 25	(25) 0.5	(25) VT	(25) 2988	(25) Engine Outlet Coolant Temperature Signal	(25) II	(25) —
(26) 26	(26) 0.5	(26) WH / BU	(26) 7329	(26) Pre-Throttle Air Temperature Signal	(26) II	(26) —
(27) 27	(27) 0.5	(27) BU / YE	(27) 8938	(27) Engine Integrated Exhaust Manifold Temperature Signal	(27) II	(27) —
(28) 28	(28) 0.5	(28) BK / BN	(28) 6753	(28) Camshaft Position Actuator Solenoid Valve W Low Reference	(28) II	(28) —
(29) 29	(29) 0.5	(29) BK / VT	(29) 6754	(29) Camshaft Position Actuator Solenoid Valve X Low Reference	(29) II	(29) —
(30) 30	(30) 0.5	(30) YE	(30) 581	(30) Throttle Actuator Open Control	(30) II	(30) —
(31) 31	(31) 0.5	(31) BN / WH	(31) 582	(31) Throttle Actuator Close Control	(31) II	(31) —
(32) 32	(32) 0.7 5	(32) BU / BN	(32) 2977	(32) Coolant Diverter Valve Actuator Control Close	(32) II	(32) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(33) 33	(33) 0.5	(33) VT / GY	(33) 496	(33) Knock Sensor 1 Signal	(33) II	(33) —
(34) 34	(34) 0.5	(34) WH / GY	(34) 1876	(34) Knock Sensor 2 Signal	(34) II	(34) —
(35) 35	(35) 0.5	(35) BK / GN	(35) 469	(35) Manifold Absolute Pressure Sensor Low Reference	(35) II	(35) —
(36) 36	(36) 0.5	(36) GN / BU	(36) 428	(36) EVAP Canister Purge Solenoid Control	(36) II	(36) —
37 - 38	—	—	—	Not Occupied	—	—
(39) 39	(39) 0.5	(39) BK / GN	(39) 5301	(39) Intake Camshaft Position Sensor Low Reference 1	(39) II	(39) —
(40) 40	(40) 0.5	(40) BK / GY	(40) 5296	(40) Exhaust Camshaft Position Sensor Low Reference 1	(40) II	(40) —
41	—	—	—	Not Occupied	—	—
(42) 42	(42) 0.5	(42) VT / BK	(42) 5273	(42) Exhaust Camshaft Position Sensor 1	(42) II	(42) —
(43) 43	(43) 0.5	(43) GN	(43) 6271	(43) Crankshaft Position Sensor Signal	(43) II	(43) —
(44) 44	(44) 0.7 5	(44) YE / BU	(44) 2124	(44) Ignition Control 4	(44) II	(44) —
(45) 45	(45) 0.7 5	(45) BU / WH	(45) 2122	(45) Ignition Control 2	(45) II	(45) —
(46) 46	(46) 0.7 5	(46) BK / BU	(46) 2129	(46) Ignition Control Low Reference Bank 1	(46) II	(46) —
(47) 47	(47) 0.5	(47) GY / WH	(47) 3122	(47) HO2S Heater Low Control Bank 1 Sensor 2	(47) II	(47) —
(48) 48	(48) 0.5	(48) BU / WH	(48) 3630	(48) Throttle Position Sensor SENT 1 Signal	(48) II	(48) —
(49) 49	(49) 0.7 5	(49) BU / WH	(49) 4904	(49) Direct Fuel Injector High Voltage Supply Cylinder 4	(49) II	(49) —
(50) 50	(50) 0.7 5	(50) GY / BU	(50) 4804	(50) Direct Fuel Injector High Voltage Control Cylinder 4	(50) II	(50) —
(51) 51	(51) 0.7 5	(51) BU / GY	(51) 4902	(51) Direct Fuel Injector High Voltage Supply Cylinder 2	(51) II	(51) —
(52) 52	(52) 0.7 5	(52) BU	(52) 4802	(52) Direct Fuel Injector High Voltage Control Cylinder 2	(52) II	(52) —
(53) 53	(53) 0.5	(53) BK / YE	(53) 1716	(53) Knock Sensor Low Reference 1	(53) II	(53) —
(54) 54	(54) 0.5	(54) BK / GY	(54) 2303	(54) Knock Sensor Low Reference 2	(54) II	(54) —
(55) 55	(55) 0.5	(55) GY / RD	(55) 2704	(55) Manifold Absolute Pressure Sensor 5V Reference	(55) II	(55) —
(56) 56	(56) 0.5	(56) YE / BN	(56) 106	(56) Oil Pump Motor Control	(56) II	(56) —
(57) 57	(57) 0.5	(57) BU	(57) 179	(57) Engine Oil Pump Control	(57) II	(57) —
58	—	—	—	Not Occupied	—	—
(59) 59	(59) 0.5	(59) GY / BU	(59) 5300	(59) Intake Camshaft Position Sensor 1 Voltage Reference	(59) II	(59) —
(60) 60	(60) 0.5	(60) GY / YE	(60) 5297	(60) Exhaust Camshaft Position Sensor 1 Voltage Reference	(60) II	(60) —
(61) 61	(61) 0.5	(61) GY	(61) 23	(61) Generator Field Duty Cycle Signal	(61) II	(61) —
62	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(63) 63	(63) 0.5	(63) YE / VT	(63) 5275	(63) Intake Camshaft Position Sensor 1	(63) II	(63) —
(64) 64	(64) 0.7 5	(64) BU / VT	(64) 2121	(64) Ignition Control 1	(64) II	(64) —
(65) 65	(65) 0.7 5	(65) GN / BU	(65) 2123	(65) Ignition Control 3	(65) II	(65) —
66	—	—	—	Not Occupied	—	—
(67) 67	(67) 0.5	(67) VT / BK	(67) 7300	(67) High Pressure Fuel Pump Low Control	(67) II	(67) —
(68) 68	(68) 0.5	(68) YE	(68) 7301	(68) High Pressure Fuel Pump High Control	(68) II	(68) —
(69) 69	(69) 0.7 5	(69) BN / WH	(69) 4901	(69) Direct Fuel Injector High Voltage Supply Cylinder 1	(69) II	(69) —
(70) 70	(70) 0.7 5	(70) BN	(70) 4801	(70) Direct Fuel Injector High Voltage Control Cylinder 1	(70) II	(70) —
(71) 71	(71) 0.7 5	(71) GN / GY	(71) 4903	(71) Direct Fuel Injector High Voltage Supply Cylinder 3	(71) II	(71) —
(72) 72	(72) 0.7 5	(72) GN	(72) 4803	(72) Direct Fuel Injector High Voltage Control Cylinder 3	(72) II	(72) —
(73) 73	(73) 2	(73) VT / BU	(73) 5290	(73) Powertrain Main Relay Fused Supply Voltage 1	(73) I	(73) —

K20 Engine Control Module X3 (L84 / L87)



1650395

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 12707500
- Service Connector: 85761016
- Description: 73-Way F 0.64, 2.8 Series, Sealed(BK with GY Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13587518	J-35616-35 (VT)	J-38125-11A
II	19354746	J-35616-64B (L-BU)	J-38125-213

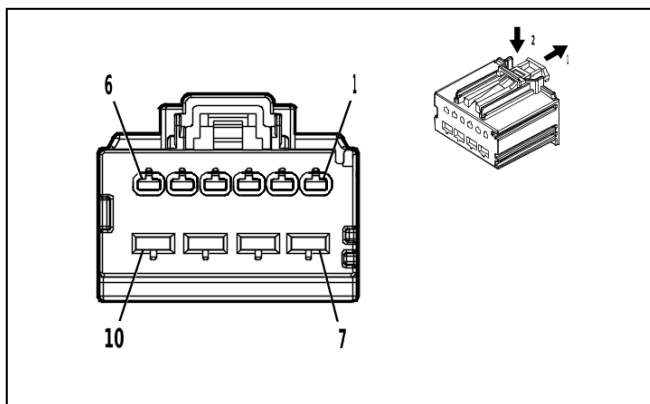
K20 Engine Control Module X3 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 5497	(1) Cylinder Deactivation Solenoid Valve Control 7	(1) II	(1) —
(2) 2	(2) 0.5	(2) GN / GY	(2) 2497	(2) Cylinder Shutoff Solenoid Enable Signal 7	(2) II	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) VT / BN	(5) 5284	(5) Intake Camshaft Position Actuator Solenoid Valve 1	(5) II	(5) —
(6) 6	(6) 0.5	(6) VT / GN	(6) 4320	(6) Powertrain Sensor Bus Enable	(6) II	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.5	(8) YE / VT	(8) 5275	(8) Intake Camshaft Position Sensor 1	(8) II	(8) —
(9) 9	(9) 0.5	(9) GY / BU	(9) 5300	(9) Intake Camshaft Position Sensor 1 Voltage Reference	(9) II	(9) —
(10) 10	(10) 0.5	(10) GN	(10) 6271	(10) Crankshaft Position Sensor Signal	(10) II	(10) —
11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0.5	(12) BU / WH	(12) 2122	(12) Ignition Control 2	(12) II	(12) —
(13) 13	(13) 0.5	(13) VT / WH	(13) 2128	(13) Ignition Control 8	(13) II	(13) —
(14) 14	(14) 0.5	(14) BN	(14) 25	(14) Charge Indicator Control	(14) II	(14) —
15	—	—	—	Not Occupied	—	—
(16) 16	(16) 0.7 5	(16) YE	(16) 7301	(16) High Pressure Fuel Pump High Control	(16) II	(16) —
17 - 20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.5	(21) BK / BN	(21) 6753	(21) Camshaft Position Actuator Solenoid Valve W Low Reference	(21) II	(21) —
22 - 23	—	—	—	Not Occupied	—	—
(24) 24	(24) 0.5	(24) BK / GN	(24) 5301	(24) Intake Camshaft Position Sensor Low Reference 1	(24) II	(24) —
(25) 25	(25) 0.5	(25) VT / BU	(25) 6270	(25) Crankshaft Position Sensor Voltage	(25) II	(25) —
(26) 26	(26) 0.5	(26) BK / VT	(26) 6272	(26) Crankshaft Position Sensor Low Reference	(26) II	(26) —
27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.5	(28) GN / GY	(28) 2127	(28) Ignition Control 7	(28) II	(28) —
(29) 29	(29) 0.5	(29) BU / VT	(29) 2121	(29) Ignition Control 1	(29) II	(29) —
(30) 30	(30) 0.5	(30) BK / BU	(30) 2129	(30) Ignition Control Low Reference Bank 1	(30) II	(30) —
31	—	—	—	Not Occupied	—	—
(32) 32	(32) 0.7 5	(32) VT / BK	(32) 7300	(32) High Pressure Fuel Pump Low Control	(32) II	(32) —
(33) 33	(33) 0.5	(33) YE / VT	(33) 4325	(33) Starter Pinion Solenoid Actuator Relay Control	(33) II	(33) —
(34) 34	(34) 0.5	(34) WH / BU	(34) 2491	(34) Cylinder Shutoff Solenoid Enable Signal 1	(34) II	(34) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(35) 35	(35) 0.5	(35) WH / YE	(35) 2498	(35) Cylinder Shutoff Solenoid Enable Signal 8	(35) II	(35) —
(36) 36	(36) 0.5	(36) BK / BN	(36) 2752	(36) Throttle Position Sensor Low Reference	(36) II	(36) —
(37) 37	(37) 0.5	(37) BK / GN	(37) 469	(37) Manifold Absolute Pressure Sensor Low Reference	(37) II	(37) —
38 - 39	—	—	—	Not Occupied	—	—
(40) 40	(40) 0.5	(40) BN / BU	(40) 357	(40) Oil Temperature Sensor Signal	(40) II	(40) —
41 - 42	—	—	—	Not Occupied	—	—
(43) 43	(43) 0.5	(43) BK / GY	(43) 626	(43) Engine Control Vehicle Sensors Low Reference 1	(43) II	(43) —
(44) 44	(44) 0.7 5	(44) VT / BU	(44) 5292	(44) Powertrain Main Relay Fused Supply Voltage 3	(44) II	(44) —
(45) 45	(45) 0.7 5	(45) GN	(45) 4803	(45) Direct Fuel Injector High Voltage Control Cylinder 3	(45) II	(45) —
(46) 46	(46) 0.7 5	(46) GY / BU	(46) 4804	(46) Direct Fuel Injector High Voltage Control Cylinder 4	(46) II	(46) —
(47) 47	(47) 0.7 5	(47) WH / GN	(47) 4805	(47) Direct Fuel Injector High Voltage Control Cylinder 5	(47) II	(47) —
(48) 48	(48) 0.7 5	(48) VT / GN	(48) 4806	(48) Direct Fuel Injector High Voltage Control Cylinder 6	(48) II	(48) —
(49) 49	(49) 0.7 5	(49) BU	(49) 4802	(49) Direct Fuel Injector High Voltage Control Cylinder 2	(49) II	(49) —
(50) 50	(50) 0.7 5	(50) YE / GY	(50) 4807	(50) Direct Fuel Injector High Voltage Control Cylinder 7	(50) II	(50) —
(51) 51	(51) 0.7 5	(51) GY	(51) 4808	(51) Direct Fuel Injector High Voltage Control Cylinder 8	(51) II	(51) —
(52) 52	(52) 0.7 5	(52) BN	(52) 4801	(52) Direct Fuel Injector High Voltage Control Cylinder 1	(52) II	(52) —
(53) 53	(53) 0.5	(53) BU / VT	(53) 5491	(53) Cylinder Deactivation Solenoid Valve Control 1	(53) II	(53) —
(54) 54	(54) 0.5	(54) YE	(54) 5498	(54) Cylinder Deactivation Solenoid Valve Control 8	(54) II	(54) —
(55) 55	(55) 0.5	(55) BN / RD	(55) 2701	(55) Throttle Position Sensor 5V Reference	(55) II	(55) —
(56) 56	(56) 0.5	(56) BU / WH	(56) 3630	(56) Throttle Position Sensor SENT 1 Signal	(56) II	(56) —
(57) 57	(57) 0.5	(57) GY / RD	(57) 2704	(57) Manifold Absolute Pressure Sensor 5V Reference	(57) II	(57) —
(58) 58	(58) 0.5	(58) GN / WH	(58) 432	(58) Manifold Absolute Pressure Sensor Signal	(58) II	(58) —
59 - 60	—	—	—	Not Occupied	—	—
(61) 61	(61) 0.5	(61) BU	(61) 410	(61) Engine Coolant Temperature Sensor Signal	(61) II	(61) —
62	—	—	—	Not Occupied	—	—
(63) 63	(63) 0.5	(63) BU / WH	(63) 1078 6	(63) Fuel Rail Pressure Sensor SENT 1 Signal	(63) II	(63) —
(64) 64	(64) 0.5	(64) GY	(64) 23	(64) Generator Field Duty Cycle Signal	(64) II	(64) —
(65) 65	(65) 0.7 5	(65) GN / BK	(65) 4903	(65) Direct Fuel Injector High Voltage Supply Cylinder 3	(65) II	(65) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(66) 66	(66) 0.7 5	(66) BU / WH	(66) 4904	(66) Direct Fuel Injector High Voltage Supply Cylinder 4	(66) II	(66) —
(67) 67	(67) 0.7 5	(67) GN / WH	(67) 4905	(67) Direct Fuel Injector High Voltage Supply Cylinder 5	(67) II	(67) —
(68) 68	(68) 0.7 5	(68) VT / GY	(68) 4906	(68) Direct Fuel Injector High Voltage Supply Cylinder 6	(68) II	(68) —
(69) 69	(69) 0.7 5	(69) BU / BK	(69) 4902	(69) Direct Fuel Injector High Voltage Supply Cylinder 2	(69) II	(69) —
(70) 70	(70) 0.7 5	(70) WH / YE	(70) 4907	(70) Direct Fuel Injector High Voltage Supply Cylinder 7	(70) II	(70) —
(71) 71	(71) 0.7 5	(71) GY / WH	(71) 4908	(71) Direct Fuel Injector High Voltage Supply Cylinder 8	(71) II	(71) —
(72) 72	(72) 0.7 5	(72) BN / WH	(72) 4901	(72) Direct Fuel Injector High Voltage Supply Cylinder 1	(72) II	(72) —
(73) 73	(73) 2.5	(73) BK / WH	(73) 251	(73) Signal Ground	(73) I	(73) —

K29FV Front Seat Heater Vent Control Module X1 (KA1 & KQV)



5035058

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 31372-1600
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 1.5, 2.8 MX Series(BK)

Terminal Part Information

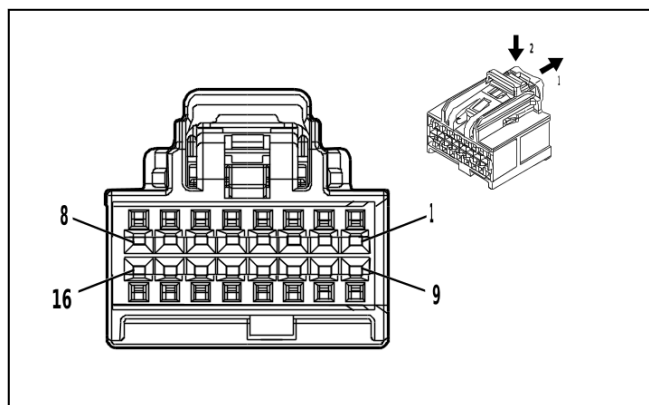
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

K29FV Front Seat Heater Vent Control Module X1 (KA1 & KQV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) WH / BN	(1) 2481	(1) Passenger Seat Back Heating Element Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) BN / BU	(2) 2479	(2) Passenger Seat Heating Element Control	(2) I	(2) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(3) 3	(3) 0.75	(3) GY / BK	(3) 2480	(3) Passenger Seat Heating Element Low Reference	(3) I	(3) —
(4) 4	(4) 0.75	(4) BN / BK	(4) 2078	(4) Driver Seat Heating Element Low Reference	(4) I	(4) —
(5) 5	(5) 0.75	(5) BN	(5) 2432	(5) Driver Seat Back Heating Element Control	(5) I	(5) —
(6) 6	(6) 0.75	(6) BN / VT	(6) 2077	(6) Driver Seat Heating Element Control	(6) I	(6) —
(7) 7	(7) 0.75	(7) RD / GN	(7) 6140	(7) Battery Positive Voltage	(7) II	(7) —
(8) 8	(8) 0.75	(8) BK	(8) 1350	(8) Ground	(8) II	(8) —
9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.75	(10) RD / BN	(10) 6640	(10) Battery Positive Voltage	(10) II	(10) —

K29FV Front Seat Heater Vent Control Module X2 (KA1 & KQV)



4873243

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 35016343
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way F 0.64 OCS Series(BK)

Terminal Part Information

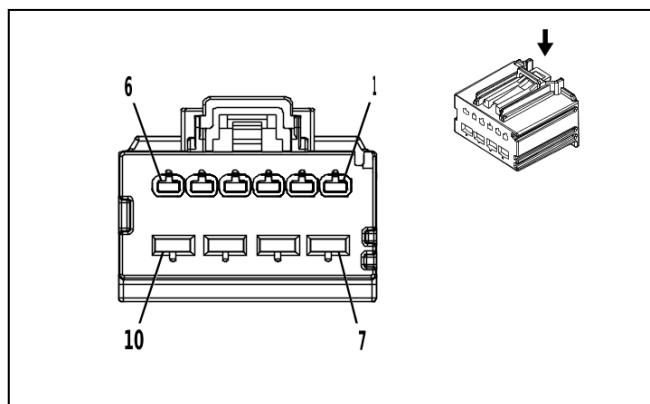
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

K29FV Front Seat Heater Vent Control Module X2 (KA1 & KQV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / YE	(1) 2080	(1) Driver Heated Seat Thermistor Low Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GY	(2) 2435	(2) Passenger Heated Seat Thermistor Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU	(3) 2425	(3) Driver Seat Back Heating Temperature Sensor Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH / BU	(4) 2436	(4) Passenger Seat Back Heating Temperature Sensor Signal	(4) I	(4) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(5) 5	(5) 0.5	(5) WH / GY	(5) 2434	(5) Passenger Seat Heating Temperature Sensor Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) YE / GY	(6) 2079	(6) Driver Seat Heating Temperature Sensor Signal	(6) I	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.5	(8) GN / VT	(8) 2857	(8) Body Control Module LIN Bus 11	(8) I	(8) —
(9) 9	(9) 0.5	(9) GN / VT	(9) 5906	(9) Driver Seat Blower Motor Control 1	(9) I	(9) —
(10) 10	(10) 0.5	(10) VT / WH	(10) 5908	(10) Passenger Seat Blower Motor Control 1	(10) I	(10) —
11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0.5	(12) BK / GN	(12) 2482	(12) Passenger Heated Back Thermistor Low Reference	(12) I	(12) —
13 - 16	—	—	—	Not Occupied	—	—

K29R Rear Seat Heater Control Module X1 (KA6)



3791446

Connector Part Information

- Harness Type: Rear Seat Heater Control Wiring Harness
- OEM Connector: 31372-1000
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 1.5, 2.8 MX Series(BK)

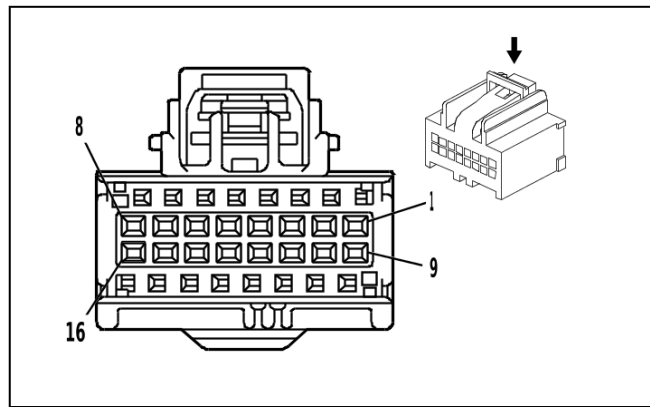
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	No Tool Required	No Tool Required

K29R Rear Seat Heater Control Module X1 (KA6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.75	(2) GN / BN	(2) 2296	(2) Right Rear Seat Cushion Heating Element Control	(2) I	(2) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(3) 3	(3) 0.75	(3) GN / BK	(3) 2297	(3) Right Rear Seat Cushion Heating Element Low Reference	(3) I	(3) —
(4) 4	(4) 0.75	(4) BN / BK	(4) 2295	(4) Left Rear Seat Cushion Heating Element Low Reference	(4) I	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.75	(6) GY	(6) 2294	(6) Left Rear Seat Cushion Heating Element Control	(6) I	(6) —
(7) 7	(7) 0.75	(7) RD / YE	(7) 5740	(7) Battery Positive Voltage	(7) II	(7) —
(8) 8	(8) 0.5	(8) BK	(8) 1550	(8) Ground	(8) II	(8) —
9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.75	(10) RD / VT	(10) 6740	(10) Battery Positive Voltage	(10) II	(10) —

K29R Rear Seat Heater Control Module X2 (KA6)

1653409

Connector Part Information

- Harness Type: Rear Seat Heater Control Wiring Harness
- OEM Connector: 7283-9076-30
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way F 0.64 Kaizen Series(BK)

Terminal Part Information

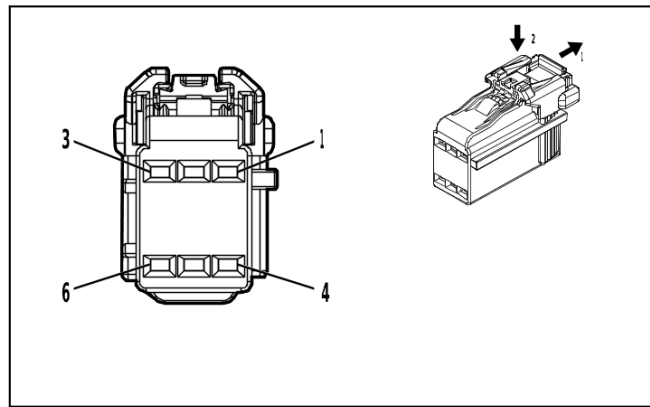
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required
II	Not required	No Tool Required	No Tool Required

K29R Rear Seat Heater Control Module X2 (KA6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / WH	(1) 7048	(1) Left Rear Cushion Thermistor Feedback Signal	(1) I	(1) —
(2) 2	(2) 0.75	(2) WH / BK	(2) 7054	(2) Right Rear Cushion Thermistor Feedback Signal	(2) I	(2) —
3 - 4	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(5) 5	(5) 0.75	(5) YE / WH	(5) 7053	(5) Right Rear Seat Cushion Temperature Sensor Signal	(5) I	(5) —
(6) 6	(6) 0.75	(6) WH / BU	(6) 7047	(6) Left Rear Seat Cushion Temperature Sensor Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) BK	(7) 1550	(7) Ground	(7) I	(7) —
(8) 8	(8) 0.5	(8) GN / BU	(8) 2857	(8) Body Control Module LIN Bus 11	(8) II	(8) —
9 - 16	—	—	—	Not Occupied	—	—

K32 Heated Steering Wheel Module X1 (K13 & (D07 / NK5))



4862126

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 13532426
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.2 Series(BK)

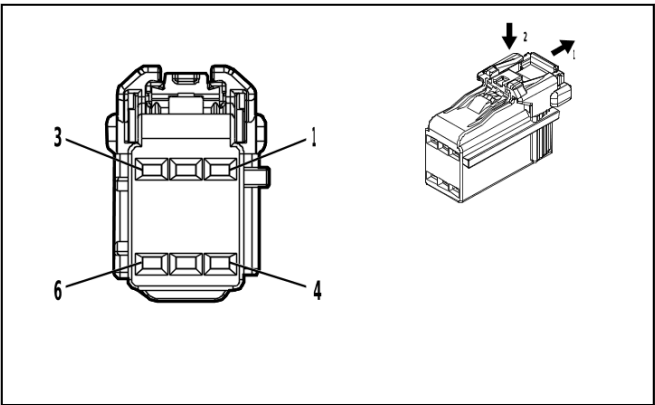
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

K32 Heated Steering Wheel Module X1 (K13 & (D07 / NK5))

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) YE / GY	(1) 5883	(1) Steering Wheel Heating Switch Signal	(1) I	(1) —
(2) 2	(2) 0.35	(2) BN / WH	(2) 5884	(2) Steering Wheel Heating Switch LED Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) RD / GN	(3) 10040	(3) Battery Positive Voltage	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 50	(4) Ground	(4) I	(4) —
(5) 5	(5) 0.35	(5) BK / WH	(5) 6051	(5) Steering Wheel Ground	(5) I	(5) —
(6) 6	(6) 0.35	(6) GN / BK	(6) 2858	(6) Body Control Module LIN Bus 12	(6) I	(6) —

K32 Heated Steering Wheel Module X1 (KI3 & (N57 - D07))



4862126

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 13532426
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.2 Series(BK)

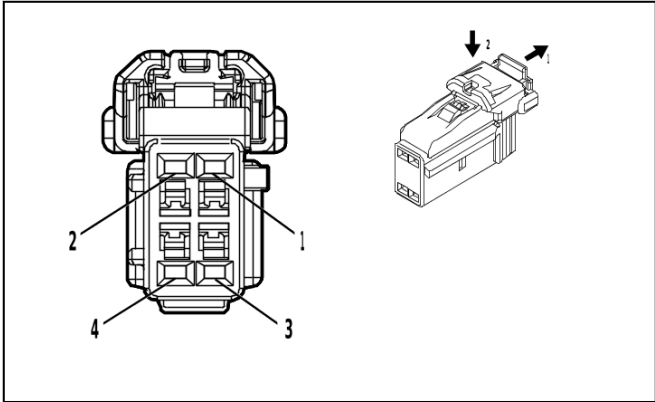
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

K32 Heated Steering Wheel Module X1 (KI3 & (N57 - D07))

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GN	(1) 5883	(1) Steering Wheel Heating Switch Signal	(1) I	(1) —
(2) 2	(2) 0.35	(2) GY / OG	(2) 5884	(2) Steering Wheel Heating Switch LED Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) OG	(3) 10040	(3) Battery Positive Voltage	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 6050	(4) Steering Wheel Ground	(4) I	(4) —
(5) 5	(5) 0.35	(5) BK	(5) 6051	(5) Steering Wheel Ground	(5) I	(5) —
(6) 6	(6) 0.35	(6) WH	(6) 2858	(6) Body Control Module LIN Bus 12	(6) I	(6) —

K32 Heated Steering Wheel Module X2 (KI3 - UKL)



4872683

Connector Part Information

- Harness Type: Steering Wheel Heater
- OEM Connector: 13533335
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2 Series(BK)

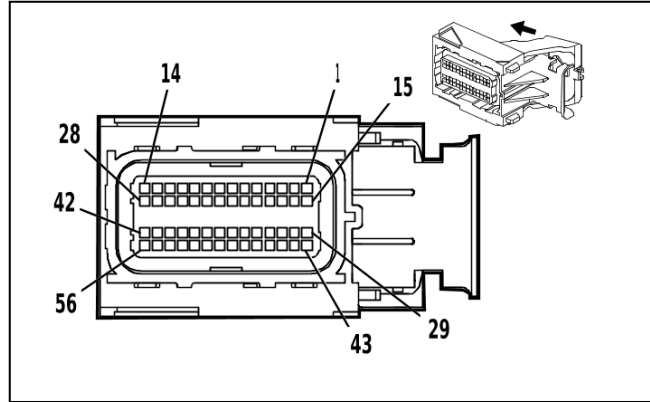
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

K32 Heated Steering Wheel Module X2 (KI3 - UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) WH / YE	(1) 5888	(1) Steering Wheel Heating High Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) GY / YE	(2) 5887	(2) Steering Wheel Heating Low Control	(2) I	(2) —
(3) 3	(3) 0.35	(3) VT / BU	(3) 5886	(3) Steering Wheel Heating Temperature Sensor Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) YE / RD	(4) 5885	(4) Steering Wheel Heating Voltage Reference	(4) I	(4) —

K36 Restraints Control Module X1



1590948

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 12728284
- Service Connector: 85090371
- Description: 56-Way F 0.64 Series, Sealed(BK with BU Terminal Position Assurance)

Terminal Part Information

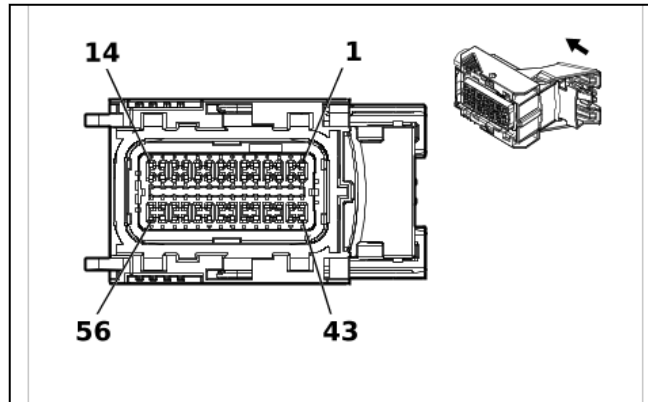
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19354746	J-35616-64B (L-BU)	J-38125-213

K36 Restraints Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) BK / OG	(7) 5045	(7) Left Front Impact Discriminating Sensor Low Reference	(7) I	(7) —
(8) 8	(8) 0.5	(8) OG / YE	(8) 354	(8) Left Front Impact Discriminating Sensor Signal	(8) I	(8) —
(9) 9	(9) 0.5	(9) OG / GN	(9) 1409	(9) Right Front Impact Discriminating Sensor Signal	(9) I	(9) —
(10) 10	(10) 0.5	(10) BK / OG	(10) 5600	(10) Right Front Impact Discriminating Sensor Low Reference	(10) I	(10) —
(11) 11	(11) 0.5	(11) WH / OG	(11) 3476	(11) Passenger Seat Belt Retractor Pretensioner Low Control	(11) I	(11) —
(12) 12	(12) 0.5	(12) OG / GN	(12) 3475	(12) Passenger Seat Belt Retractor Pretensioner High Control	(12) I	(12) —
(13) 13	(13) 0.3 5	(13) YE / OG	(13) 3025	(13) Passenger Instrument Panel Air Bag Stage 1 High Control	(13) I	(13) —
(14) 14	(14) 0.3 5	(14) OG / WH	(14) 3024	(14) Passenger Instrument Panel Air Bag Stage 1 Low Control	(14) I	(14) —
15 - 24	—	—	—	Not Occupied	—	—
(25) 25	(25) 0.5	(25) VT / OG	(25) 3478	(25) Driver Seat Belt Retractor Pretensioner Low Control	(25) I	(25) —
(26) 26	(26) 0.5	(26) OG / WH	(26) 3477	(26) Driver Seat Belt Retractor Pretensioner High Control	(26) I	(26) —
(27) 27	(27) 0.3 5	(27) OG / VT	(27) 3021	(27) Steering Wheel Air Bag Stage 1 High Control	(27) I	(27) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(28) 28	(28) 0.3 5	(28) BN / OG	(28) 3020	(28) Steering Wheel Air Bag Stage 1 Low Control	(28) I	(28) —
(29) 29	(29) 0.5	(29) BU	(29) 4987	(29) AUTOSAR CAN Bus [+] 1 Serial Data	(29) I	(29) —
(30) 30	(30) 0.5	(30) WH	(30) 4986	(30) AUTOSAR CAN Bus [-] 1 Serial Data	(30) I	(30) —
31	—	—	—	Not Occupied	—	—
(32) 32	(32) 0.5	(32) OG / BN	(32) 3479	(32) Passenger Seat Belt Anchor Pretensioner High Control	(32) I	(32) —
(33) 33	(33) 0.5	(33) GY / OG	(33) 3480	(33) Passenger Seat Belt Anchor Pretensioner Low Control	(33) I	(33) —
34 - 37	—	—	—	Not Occupied	—	—
(38) 38	(38) 0.3 5	(38) OG / VT	(38) 3026	(38) Passenger Instrument Panel Air Bag Stage 2 Low Control	(38) I	(38) —
(39) 39	(39) 0.3 5	(39) GY / OG	(39) 3027	(39) Passenger Instrument Panel Air Bag Stage 2 High Control	(39) I	(39) —
40 - 41	—	—	—	Not Occupied	—	—
(42) 42	(42) 0.5	(42) BK / WH	(42) 1251	(42) Signal Ground	(42) I	(42) —
(43) 43	(43) 0.5	(43) BU	(43) 4987	(43) AUTOSAR CAN Bus [+] 1 Serial Data	(43) I	(43) —
(44) 44	(44) 0.5	(44) WH	(44) 4986	(44) AUTOSAR CAN Bus [-] 1 Serial Data	(44) I	(44) —
45	—	—	—	Not Occupied	—	—
(46) 46	(46) 0.5	(46) VT / OG	(46) 3482	(46) Driver Seat Belt Anchor Pretensioner Low Control	(46) I	(46) —
(47) 47	(47) 0.5	(47) OG / YE	(47) 3481	(47) Driver Seat Belt Anchor Pretensioner High Control	(47) I	(47) —
48 - 49	—	—	—	Not Occupied	—	—
(50) 50	(50) 0.3 5	(50) BN / WH	(50) 3895	(50) Roof Rail Air Bag Disable Switch Low Reference	(50) I	(50) —
(51) 51	(51) 0.3 5	(51) BU / WH	(51) 3119	(51) Roof Rail Air Bag Disable Switch Signal	(51) I	(51) —
52	—	—	—	Not Occupied	—	—
(53) 53	(53) 0.3 5	(53) WH / OG	(53) 3022	(53) Steering Wheel Air Bag Stage 2 Low Control	(53) I	(53) —
(54) 54	(54) 0.3 5	(54) OG / GN	(54) 3023	(54) Steering Wheel Air Bag Stage 2 High Control	(54) I	(54) —
(55) 55	(55) 0.3 5	(55) VT / WH	(55) 239	(55) Run/Crank Ignition 1 Voltage	(55) I	(55) —
(56) 56	(56) 0.5	(56) RD / GN	(56) 4440	(56) Battery Positive Voltage	(56) I	(56) —

K36 Restraints Control Module X2



5377124

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 12728285
- Service Connector: 85004498
- Description: 56-Way F 0.64 Series, Sealed(BK)

Terminal Part Information

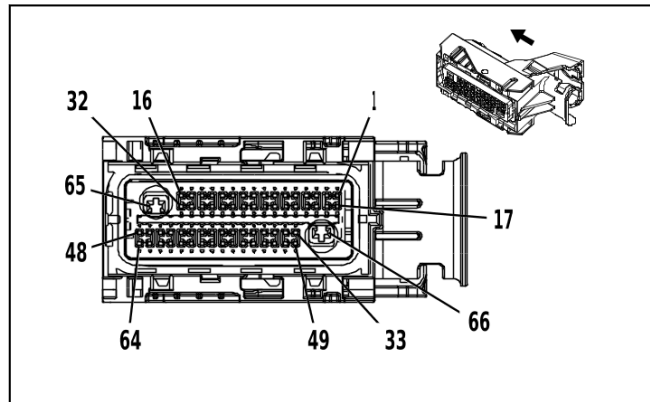
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19354746	J-35616-64B (L-BU)	J-38125-213

K36 Restraints Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.5	(10) BU / OG	(10) 5163	(10) Rear Center Seat Belt Switch Signal	(10) I	(10) —
(11) 11	(11) 0.5	(11) YE / OG	(11) 5161	(11) Left Rear Seat Belt Switch Signal	(11) I	(11) —
(12) 12	(12) 0.3 5	(12) OG / GY	(12) 2652	(12) Driver Seat Belt Sensor Signal	(12) I	(12) —
(13) 13	(13) 0.5	(13) BK / OG	(13) 6627	(13) Right Rear Side Impact Sensor Low Reference	(13) I	(13) —
(14) 14	(14) 0.5	(14) OG / WH	(14) 6626	(14) Right Rear Side Impact Sensor Signal	(14) I	(14) —
15 - 22	—	—	—	Not Occupied	—	—
(23) 23	(23) 0.5	(23) BK / OG	(23) 1363	(23) Driver Seat Belt Switch Low Reference	(23) I	(23) —
(24) 24	(24) 0.5	(24) BN / OG	(24) 5162	(24) Right Rear Seat Belt Switch Signal	(24) I	(24) —
(25) 25	(25) 0.3 5	(25) OG / VT	(25) 1362	(25) Passenger Seat Belt Switch Signal	(25) I	(25) —
26	—	—	—	Not Occupied	—	—
(27) 27	(27) 0.5	(27) BK / OG	(27) 6628	(27) Left Front Side Impact Sensor Low Reference	(27) I	(27) —
(28) 28	(28) 0.5	(28) OG / GN	(28) 2132	(28) Left Front Side Impact Sensor Signal	(28) I	(28) —
29 - 36	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(37) 37	(37) 0.5	(37) OG / GY	(37) 5021	(37) Right Front Roof Rail Air Bag High Control	(37) I	(37) —
(38) 38	(38) 0.5	(38) WH / OG	(38) 5022	(38) Right Front Roof Rail Air Bag Low Control	(38) I	(38) —
(39) 39	(39) 0.5	(39) BU / OG	(39) 4957	(39) Passenger Seat Back Air Bag Low Control	(39) I	(39) —
(40) 40	(40) 0.5	(40) OG / GY	(40) 4956	(40) Passenger Seat Back Air Bag High Control	(40) I	(40) —
(41) 41	(41) 0.5	(41) BK / OG	(41) 6629	(41) Right Front Side Impact Sensor Low Reference	(41) I	(41) —
(42) 42	(42) 0.5	(42) BN / OG	(42) 2134	(42) Right Front Side Impact Sensor Signal	(42) I	(42) —
43 - 50	—	—	—	Not Occupied	—	—
(51) 51	(51) 0.5	(51) OG / GN	(51) 5019	(51) Left Front Roof Rail Air Bag High Control	(51) I	(51) —
(52) 52	(52) 0.5	(52) VT / OG	(52) 5020	(52) Left Front Roof Rail Air Bag Low Control	(52) I	(52) —
(53) 53	(53) 0.5	(53) BK / OG	(53) 4963	(53) Driver Seat Back Air Bag Low Control	(53) I	(53) —
(54) 54	(54) 0.5	(54) OG / BU	(54) 4962	(54) Driver Seat Back Air Bag High Control	(54) I	(54) —
(55) 55	(55) 0.5	(55) BK / OG	(55) 6623	(55) Left Rear Side Impact Sensor Low Reference	(55) I	(55) —
(56) 56	(56) 0.5	(56) OG / BU	(56) 6622	(56) Left Rear Side Impact Sensor Signal	(56) I	(56) —

K38 Chassis Control Module (G93 / G94)



4504420

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 12707495
- Service Connector: 85761018
- Description: 66-Way F 0.64, 2.8 Series, Sealed(BK with BU Terminal Position Assurance)

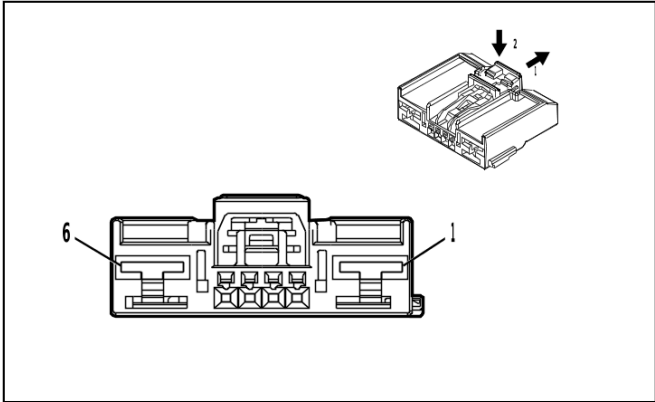
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13587518	J-35616-35 (VT)	J-38125-11A
II	19354746	J-35616-64B (L-BU)	J-38125-213

K38 Chassis Control Module (G93 / G94)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.5	(6) VT / WH	(6) 639	(6) Run/Crank Ignition 1 Voltage	(6) II	(6) —
7 - 12	—	—	—	Not Occupied	—	—
(13) 13	(13) 0.5	(13) YE / GN	(13) 7122	(13) Axle Differential Lock Switch Signal	(13) II	(13) —
14 - 31	—	—	—	Not Occupied	—	—
(32) 32	(32) 0.5	(32) VT / GY	(32) 7117	(32) Front Axle Differential Lock Indicator Control	(32) II	(32) —
(33) 33	(33) 0.7 5	(33) VT / WH	(33) 7256	(33) Front Differential Lock Actuator Control	(33) II	(33) —
(34) 34	(34) 0.5	(34) BU / YE	(34) 4979	(34) AUTOSAR CAN Bus [+] 2 Serial Data	(34) II	(34) —
(35) 35	(35) 0.5	(35) BU / YE	(35) 4979	(35) AUTOSAR CAN Bus [+] 2 Serial Data	(35) II	(35) —
(36) 36	(36) 0.5	(36) WH	(36) 4978	(36) AUTOSAR CAN Bus [-] 2 Serial Data	(36) II	(36) —
(37) 37	(37) 0.5	(37) WH	(37) 4978	(37) AUTOSAR CAN Bus [-] 2 Serial Data	(37) II	(37) —
(38) 38	(38) 0.5	(38) YE	(38) 7115	(38) Rear Axle Differential Lock Indicator Control	(38) II	(38) —
39 - 43	—	—	—	Not Occupied	—	—
(44) 44	(44) 0.7 5	(44) GY / BK	(44) 7253	(44) Rear Differential Lock Actuator Low Control	(44) II	(44) —
45 - 49	—	—	—	Not Occupied	—	—
(50) 50	(50) 0.7 5	(50) VT / BN	(50) 7258	(50) Rear Differential Lock Actuator Control	(50) II	(50) —
51 - 59	—	—	—	Not Occupied	—	—
(60) 60	(60) 0.7 5	(60) WH / BK	(60) 7254	(60) Front Differential Lock Actuator Low Control	(60) II	(60) —
61 - 64	—	—	—	Not Occupied	—	—
(65) 65	(65) 1.5	(65) BK	(65) 1850	(65) Ground	(65) I	(65) —
(66) 66	(66) 1.5	(66) RD / WH	(66) 5940	(66) Battery Positive Voltage	(66) I	(66) —

K40D Driver Seat Adjuster Memory Module X1



4650258

Connector Part Information

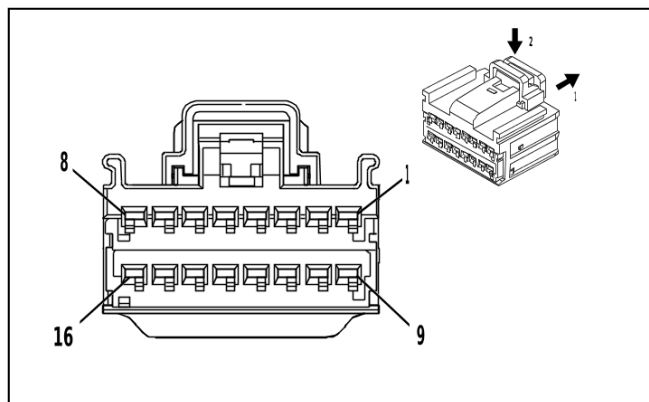
- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 7289-7139-30
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64, 6.3 Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required
II	Not required	J-35616-64B (L-BU)	No Tool Required

K40D Driver Seat Adjuster Memory Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BK	(1) 1550	(1) Ground	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) RD / BN	(3) 2240	(3) Battery Positive Voltage	(3) II	(3) —
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 2.5	(6) RD / YE	(6) 5040	(6) Battery Positive Voltage	(6) I	(6) —

K40D Driver Seat Adjuster Memory Module X2

4332214

Connector Part Information

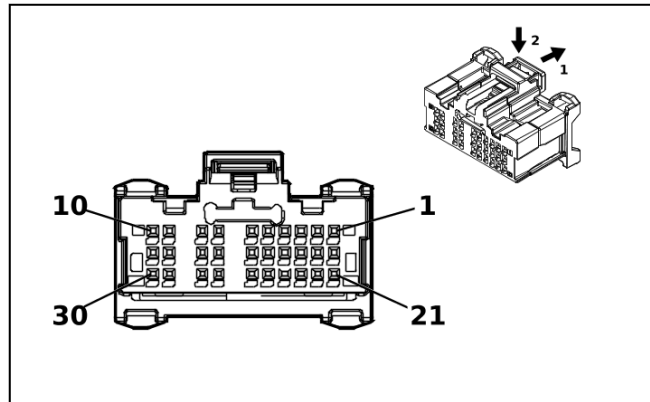
- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 15512506
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way F 1.5 OCS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

K40D Driver Seat Adjuster Memory Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) YE / BU	(1) 285	(1) Driver Seat Horizontal Motor Forward Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 1.5	(3) GN / YE	(3) 276	(3) Driver Seat Recline Motor Forward Control	(3) I	(3) —
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 1.5	(6) BU / VT	(6) 287	(6) Driver Seat Front Vertical Motor Down Control	(6) I	(6) —
(7) 7	(7) 1.5	(7) YE	(7) 282	(7) Driver Seat Rear Vertical Motor Up Control	(7) I	(7) —
8	—	—	—	Not Occupied	—	—
(9) 9	(9) 1.5	(9) BU / YE	(9) 277	(9) Driver Seat Recline Motor Rearward Control	(9) I	(9) —
10	—	—	—	Not Occupied	—	—
(11) 11	(11) 1.5	(11) GY / GN	(11) 284	(11) Driver Seat Horizontal Motor Rearward Control	(11) I	(11) —
12	—	—	—	Not Occupied	—	—
(13) 13	(13) 1.5	(13) GY / BU	(13) 283	(13) Driver Seat Rear Vertical Motor Down Control	(13) I	(13) —
14 - 15	—	—	—	Not Occupied	—	—
(16) 16	(16) 1.5	(16) GN / BN	(16) 286	(16) Driver Seat Front Vertical Motor Up Control	(16) I	(16) —

K40D Driver Seat Adjuster Memory Module X3

5202284

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 2309644-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 30-Way F 0.5 MQS Series(BK)

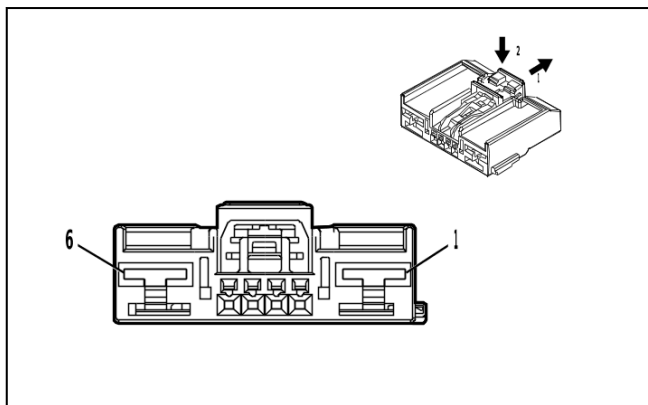
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

K40D Driver Seat Adjuster Memory Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.35	(2) BU / GN	(2) 614	(2) Seat Memory Switch Set Signal	(2) I	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.35	(5) BN	(5) 3038	(5) Driver Seat Right Rear Haptic Movement Motor Control	(5) I	(5) —
(6) 6	(6) 0.35	(6) YE / BN	(6) 3037	(6) Driver Seat Left Rear Haptic Movement Motor Control	(6) I	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.35	(8) GN / WH	(8) 7530	(8) Driver Seat Adjuster Memory Module LIN Bus 1	(8) I	(8) —
(9) 9	(9) 0.35	(9) WH	(9) 4100	(9) AUTOSAR CAN Bus [-] 4 Serial Data	(9) I	(9) —
(10) 10	(10) 0.35	(10) BU / VT	(10) 4101	(10) AUTOSAR CAN Bus [+] 4 Serial Data	(10) I	(10) —
11 - 15	—	—	—	Not Occupied	—	—
(16) 16	(16) 0.35	(16) WH	(16) 615	(16) Seat Memory Switch Signal 1	(16) I	(16) —
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.35	(18) GN / GY	(18) 3758	(18) Driver Seat Adjuster Memory Module LIN Bus 2	(18) I	(18) —
(19) 19	(19) 0.35	(19) WH	(19) 4100	(19) AUTOSAR CAN Bus [-] 4 Serial Data	(19) I	(19) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(20) 20	(20) 0.3 5	(20) BU / VT	(20) 4101	(20) AUTOSAR CAN Bus [+] 4 Serial Data	(20) I	(20) —
21 - 30	—	—	—	Not Occupied	—	—

K40P Passenger Seat Adjuster Memory Module X1 (A45)

4650258

Connector Part Information

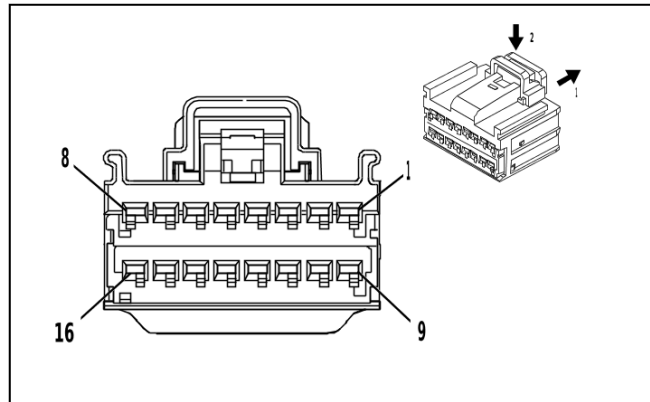
- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 7289-7139-30
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64, 6.3 Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required
II	Not required	J-35616-64B (L-BU)	No Tool Required

K40P Passenger Seat Adjuster Memory Module X1 (A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BK	(1) 1350	(1) Ground	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) RD / BN	(3) 2240	(3) Battery Positive Voltage	(3) II	(3) —
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 2.5	(6) RD / YE	(6) 7440	(6) Battery Positive Voltage	(6) I	(6) —

K40P Passenger Seat Adjuster Memory Module X2 (AVU)

4332214

Connector Part Information

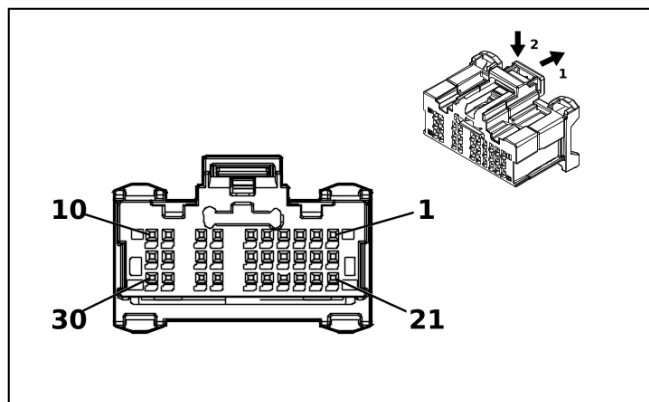
- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 15512506
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way F 1.5 OCS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

K40P Passenger Seat Adjuster Memory Module X2 (AVU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) YE / WH	(1) 296	(1) Passenger Seat Horizontal Motor Forward Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 1.5	(3) GN	(3) 76	(3) Passenger Seat Recline Motor Forward Control	(3) I	(3) —
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 1.5	(6) GN / BU	(6) 298	(6) Passenger Seat Front Vertical Motor Down Control	(6) I	(6) —
(7) 7	(7) 1.5	(7) GN / WH	(7) 288	(7) Passenger Seat Rear Vertical Motor Up Control	(7) I	(7) —
8	—	—	—	Not Occupied	—	—
(9) 9	(9) 1.5	(9) BU / BN	(9) 77	(9) Passenger Seat Recline Motor Rearward Control	(9) I	(9) —
10	—	—	—	Not Occupied	—	—
(11) 11	(11) 1.5	(11) YE / BU	(11) 290	(11) Passenger Seat Horizontal Motor Rearward Control	(11) I	(11) —
12	—	—	—	Not Occupied	—	—
(13) 13	(13) 1.5	(13) BU / WH	(13) 289	(13) Passenger Seat Rear Vertical Motor Down Control	(13) I	(13) —
14 - 15	—	—	—	Not Occupied	—	—
(16) 16	(16) 1.5	(16) GN / VT	(16) 297	(16) Passenger Seat Front Vertical Motor Up Control	(16) I	(16) —

K40P Passenger Seat Adjuster Memory Module X3 (AVU & AHH / AKE)

5202284

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 2309644-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 30-Way F 0.5 MQS Series(BK)

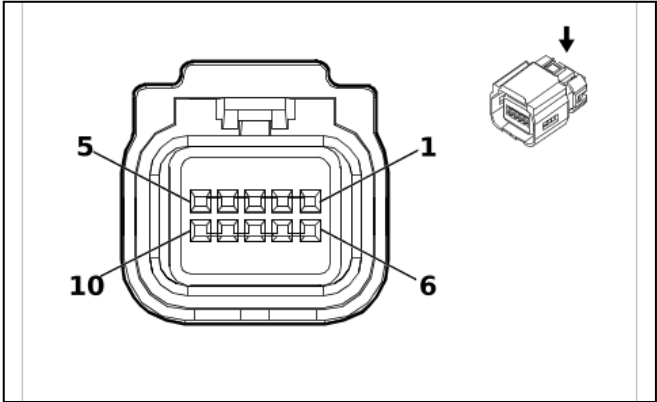
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

K40P Passenger Seat Adjuster Memory Module X3 (AVU & AHH / AKE)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0.35	(9) WH	(9) 4100	(9) AUTOSAR CAN Bus [-] 4 Serial Data	(9) I	(9) —
(10) 10	(10) 0.3 5	(10) BU / VT	(10) 4101	(10) AUTOSAR CAN Bus [+] 4 Serial Data	(10) I	(10) —
11 - 17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.3 5	(18) GN / YE	(18) 4116	(18) Passenger Seat Adjuster Memory Module LIN Bus 2	(18) I	(18) —
(19) 19	(19) 0.3 5	(19) WH	(19) 4100	(19) AUTOSAR CAN Bus [-] 4 Serial Data	(19) I	(19) —
(20) 20	(20) 0.3 5	(20) BU / VT	(20) 4101	(20) AUTOSAR CAN Bus [+] 4 Serial Data	(20) I	(20) —
21	—	—	—	Not Occupied	—	—
(22) 22	(22) 0.3 5	(22) BN / VT	(22) 2452	(22) Seat Memory Module Configuration 2	(22) I	(22) —
(23) 23	(23) 0.3 5	(23) BN / VT	(23) 2452	(23) Seat Memory Module Configuration 2	(23) I	(23) —
24 - 30	—	—	—	Not Occupied	—	—

K43 Power Steering Control Module X1



5924496

- Connector Part Information**
- Harness Type: Power Steering Wiring Harness Extension Harness
 - OEM Connector: 13529266
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 10-Way F 0.64 Kaizen Series, Sealed(GN)

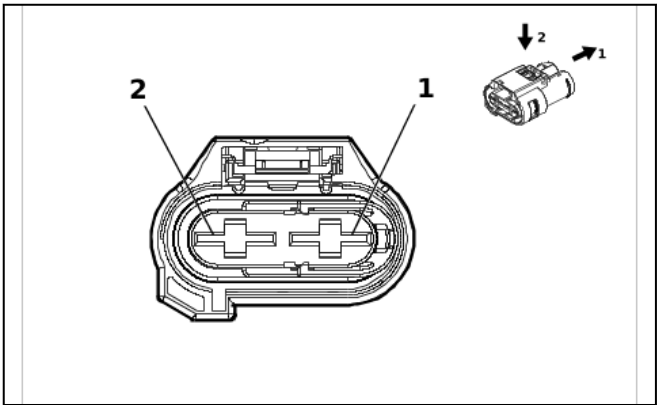
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

K43 Power Steering Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) WH / BU	(7) 4987	(7) AUTOSAR CAN Bus [+] 1 Serial Data	(7) I	(7) —
(8) 8	(8) 0.5	(8) GY / WH	(8) 4986	(8) AUTOSAR CAN Bus [-] 1 Serial Data	(8) I	(8) —
9 - 10	—	—	—	Not Occupied	—	—

K43 Power Steering Control Module X2



3608474

Connector Part Information

- Harness Type: Power Steering Control Module Wiring Harness
- OEM Connector: 13598847
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way

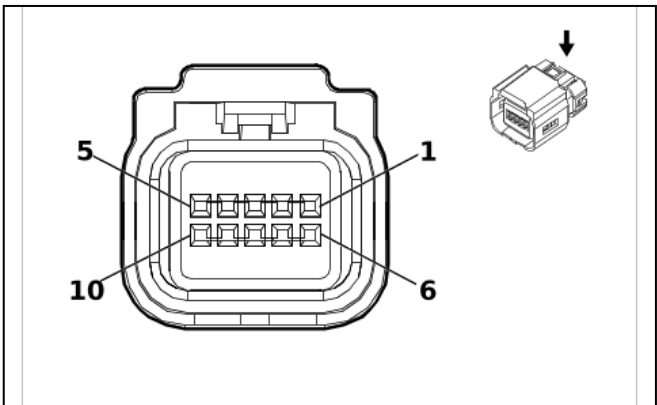
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K43 Power Steering Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 20	(1) RD	(1) 3542	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 20	(2) BK	(2) 350	(2) Ground	(2) I	(2) —

K43 Power Steering Control Module X3



5924496

Connector Part Information

- Harness Type: Power Steering Control Module Wiring Harness
- OEM Connector: 13529266
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 0.64 Kaizen Series, Sealed(GN)

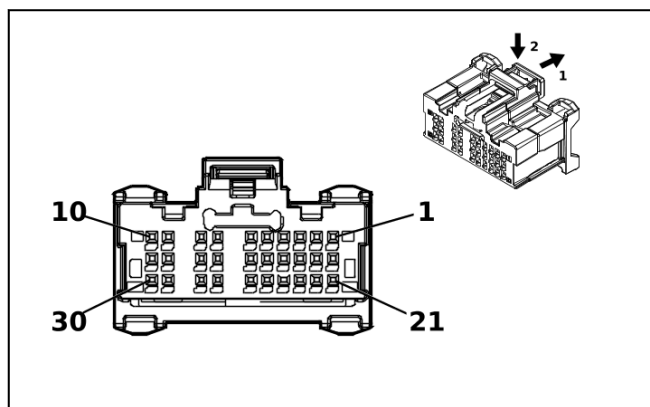
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

K43 Power Steering Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU	(1) 8367	(1) Handwheel Channel A Torque Pressure Sensor 1 SENT Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) RD	(2) 8366	(2) Handwheel Channel A High Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK	(3) 8370	(3) Handwheel Channel A Low Reference	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH / RD	(4) 8371	(4) Handwheel Channel B High Reference	(4) I	(4) —
(5) 5	(5) 0.5	(5) WH / BU	(5) 8372	(5) Handwheel Channel B Torque Pressure Sensor 1 SENT Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) VT	(6) 8368	(6) Handwheel Channel A Torque Pressure Sensor 2 SENT Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) OG	(7) 8369	(7) Handwheel Channel A Angle Position Sensor SENT Signal	(7) I	(7) —
(8) 8	(8) 0.5	(8) GY	(8) 8375	(8) Handwheel Channel B Low Reference	(8) I	(8) —
(9) 9	(9) 0.5	(9) YE	(9) 8374	(9) Handwheel Channel B Angle Position Sensor SENT Signal	(9) I	(9) —
(10) 10	(10) 0.5	(10) GN	(10) 8373	(10) Handwheel Channel B Torque Pressure Sensor 2 SENT Signal	(10) I	(10) —

K56 Serial Data Gateway Module X1



5202284

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 2309644-1
- Service Connector: 84766507
- Description: 30-Way F 0.5 MQS Series(BK)

Terminal Part Information

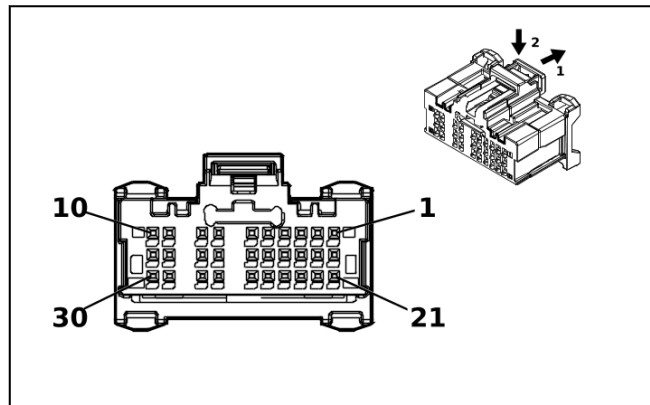
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	Service by Cable	EL-35616-58 (BK)	EL-38125-58

K56 Serial Data Gateway Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) RD / BN	(1) 4940	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) BU / GN	(2) 4105	(2) AUTOSAR CAN Bus [+] 8 Serial Data	(2) I	(2) —
(3) 3	(3) 0.35	(3) WH / YE	(3) 4104	(3) AUTOSAR CAN Bus [-] 8 Serial Data	(3) I	(3) —
(4) 4	(4) 0.35	(4) BK / WH	(4) 851	(4) Signal Ground	(4) I	(4) —
(5) 5	(5) 0.35	(5) BU / BN	(5) 4987	(5) AUTOSAR CAN Bus [+] 1 Serial Data	(5) I	(5) —
(6) 6	(6) 0.35	(6) WH / RD	(6) 4986	(6) AUTOSAR CAN Bus [-] 1 Serial Data	(6) I	(6) —
(7) 7	(7) 0.35	(7) WH	(7) 4100	(7) AUTOSAR CAN Bus [-] 4 Serial Data	(7) I	(7) —
(8) 8	(8) 0.35	(8) BU / VT	(8) 4101	(8) AUTOSAR CAN Bus [+] 4 Serial Data	(8) I	(8) —
(9) 9	(9) 0.35	(9) WH	(9) 4976	(9) AUTOSAR CAN Bus [-] 3 Serial Data	(9) I	(9) —
(10) 10	(10) 0.3 5	(10) BU / BK	(10) 4977	(10) AUTOSAR CAN Bus [+] 3 Serial Data	(10) I	(10) —
11 - 12	—	—	—	Not Occupied	—	—
(13) 13	(13) 0.3 5	(13) WH / GY	(13) 4104	(13) AUTOSAR CAN Bus [-] 8 Serial Data	(13) I	(13) —
(14) 14	(14) 0.3 5	(14) BU / GY	(14) 4105	(14) AUTOSAR CAN Bus [+] 8 Serial Data	(14) I	(14) —
(15) 15	(15) 0.3 5	(15) BU / BN	(15) 4987	(15) AUTOSAR CAN Bus [+] 1 Serial Data	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) WH / RD	(16) 4986	(16) AUTOSAR CAN Bus [-] 1 Serial Data	(16) I	(16) —
(17) 17	(17) 0.3 5	(17) WH	(17) 4978	(17) AUTOSAR CAN Bus [-] 2 Serial Data	(17) I	(17) —
(18) 18	(18) 0.3 5	(18) BU / YE	(18) 4979	(18) AUTOSAR CAN Bus [+] 2 Serial Data	(18) I	(18) —
(19) 19	(19) 0.3 5	(19) BU / GY	(19) 4984	(19) AUTOSAR CAN Bus [-] 5 Serial Data	(19) I	(19) —
(20) 20	(20) 0.3 5	(20) BU / WH	(20) 4985	(20) AUTOSAR CAN Bus [+] 5 Serial Data	(20) I	(20) —
(21) 21	(21) 0.3 5	(21) GN	(21) 7209	(21) Ethernet Bus 3 [+]	(21) II	(21) —
(22) 22	(22) 0.3 5	(22) BU	(22) 7208	(22) Ethernet Bus 3 [-]	(22) II	(22) —
23 - 24	—	—	—	Not Occupied	—	—
(25) 25	(25) 0.3 5	(25) BU / BK	(25) 4987	(25) AUTOSAR CAN Bus [+] 1 Serial Data	(25) I	(25) —
(26) 26	(26) 0.3 5	(26) WH / YE	(26) 4986	(26) AUTOSAR CAN Bus [-] 1 Serial Data	(26) I	(26) —
(27) 27	(27) 0.3 5 (27) 0.3 5	(27) WH (27) WH / BN	(27) 4978 (27) 4978	(27) AUTOSAR CAN Bus [-] 2 Serial Data (27) AUTOSAR CAN Bus [-] 2 Serial Data	(27) I (27) I	(27) UKL (27) - UKL

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(28) 28	(28) 0.3 5	(28) BU / YE	(28) 4979	(28) AUTOSAR CAN Bus [+] 2 Serial Data	(28) I	(28) UKL
	(28) 0.3 5	(28) BU / GN	(28) 4979	(28) AUTOSAR CAN Bus [+] 2 Serial Data	(28) I	(28) - UKL
(29) 29	(29) 0.3 5	(29) BU / OG	(29) 4984	(29) AUTOSAR CAN Bus [-] 5 Serial Data	(29) I	(29) —
(30) 30	(30) 0.3 5	(30) BU / WH	(30) 4985	(30) AUTOSAR CAN Bus [+] 5 Serial Data	(30) I	(30) —

K56 Serial Data Gateway Module X2



5203942

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 2309644-2
- Service Connector: 84766509
- Description: 30-Way F 0.5 MQS Series(BK with L-GY Front Housing)

Terminal Part Information

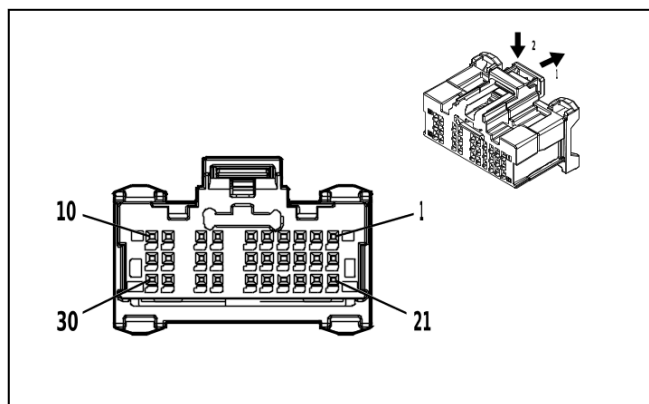
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	Service by Cable	EL-35616-58 (BK)	EL-38125-58

K56 Serial Data Gateway Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.35	(5) BK / GY	(5) 3559	(5) Passive Start Switch 2 Low Reference	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.35	(7) GN / VT	(7) 5199	(7) Run/Crank Relay Coil Control	(7) I	(7) —
8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0.35	(9) BU	(9) 4973	(9) Ethernet Bus 1R [+]	(9) II	(9) —
(10) 10	(10) 0.3 5	(10) YE	(10) 4972	(10) Ethernet Bus 1R [-]	(10) II	(10) —
11 - 12	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(13) 13	(13) 0.3 5	(13) BU / BN	(13) 4983	(13) AUTOSAR CAN Bus [+] 7 Serial Data	(13) I	(13) —
(14) 14	(14) 0.3 5	(14) WH	(14) 4982	(14) AUTOSAR CAN Bus [-] 7 Serial Data	(14) I	(14) —
(15) 15	(15) 0.3 5	(15) GN / BK	(15) 3558	(15) Passive Start Switch Signal 2	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) WH	(16) 4980	(16) AUTOSAR CAN Bus [-] 6 Serial Data	(16) I	(16) —
(17) 17	(17) 0.3 5	(17) GN	(17) 2578	(17) Private Serial Data Presentation CAN Bus [+] 1 Serial Data	(17) I	(17) —
(18) 18	(18) 0.3 5	(18) BN	(18) 2577	(18) Private Serial Data Presentation CAN Bus [-] 1 Serial Data	(18) I	(18) —
(19) 19	(19) 0.3 5	(19) WH	(19) 7207	(19) Ethernet Bus 1 Enable Signal	(19) I	(19) —
20 - 22	—	—	—	Not Occupied	—	—
(23) 23	(23) 0.3 5	(23) BU / WH	(23) 4985	(23) AUTOSAR CAN Bus [+] 5 Serial Data	(23) I	(23) —
(24) 24	(24) 0.3 5	(24) BU / YE	(24) 4984	(24) AUTOSAR CAN Bus [-] 5 Serial Data	(24) I	(24) —
25	—	—	—	Not Occupied	—	—
(26) 26	(26) 0.3 5	(26) YE	(26) 4981	(26) AUTOSAR CAN Bus [+] 6 Serial Data	(26) I	(26) —
(27) 27	(27) 0.3 5	(27) VT	(27) 2580	(27) Private Serial Data Presentation CAN Bus [+] 2 Serial Data	(27) I	(27) —
(28) 28	(28) 0.3 5	(28) GY	(28) 2579	(28) Private Serial Data Presentation CAN Bus [-] 2 Serial Data	(28) I	(28) —
(29) 29	(29) 0.3 5	(29) WH	(29) 4975	(29) Ethernet Bus 1T [+]	(29) II	(29) —
(30) 30	(30) 0.3 5	(30) GN	(30) 4974	(30) Ethernet Bus 1T [-]	(30) II	(30) —

K56 Serial Data Gateway Module X3



4900333

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 2309644-3
- Service Connector: 13519319
- Description: 30-Way F 0.5 MQS Series(BK with D-GY Front Housing)

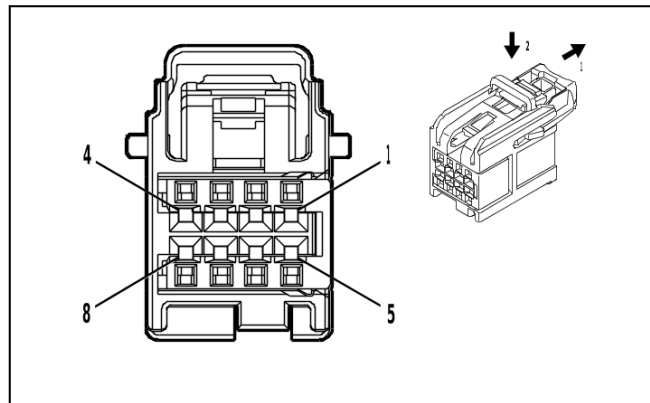
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Service by Cable	EL-35616-58 (BK)	EL-38125-58

K56 Serial Data Gateway Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.35 (7) 0.35	(7) YE (7) BN	(7) 4758 (7) 7211	(7) Ethernet Bus 2 [+] (7) Ethernet Bus 4 [+]	(7) I (7) I	(7) IOK (7) IOR/ UDA/ UE1
(8) 8	(8) 0.35 (8) 0.35	(8) BU (8) GY	(8) 4757 (8) 7210	(8) Ethernet Bus 2 [-] (8) Ethernet Bus 4 [-]	(8) I (8) I	(8) IOK (8) IOR/ UDA/ UE1
(9) 9	(9) 0.35	(9) YE	(9) 4758	(9) Ethernet Bus 2 [+]	(9) I	(9) —
(10) 10	(10) 0.3 5	(10) BU	(10) 4757	(10) Ethernet Bus 2 [-]	(10) I	(10) —
11 - 26	—	—	—	Not Occupied	—	—
(27) 27	(27) 0.3 5	(27) GN	(27) 7217	(27) Ethernet Bus 7 [+]	(27) I	(27) —
(28) 28	(28) 0.3 5	(28) WH	(28) 7216	(28) Ethernet Bus 7 [-]	(28) I	(28) —
29 - 30	—	—	—	Not Occupied	—	—

K56U Special Purpose Vehicle Control Module



4935776

Connector Part Information

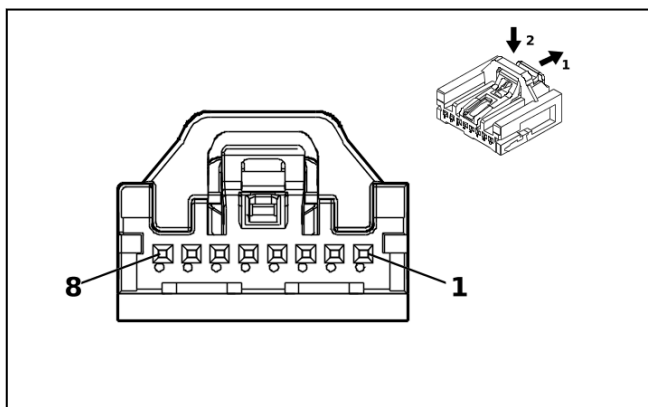
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 15526972
- Service Connector: 19370429
- Description: 8-Way F 0.64 OCS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

K56U Special Purpose Vehicle Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) RD / VT	(1) 4640	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 4987	(2) AUTOSAR CAN Bus [+] 1 Serial Data	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH	(3) 4986	(3) AUTOSAR CAN Bus [-] 1 Serial Data	(3) I	(3) —
(4) 4	(4) 0.75	(4) BK	(4) 1050	(4) Ground	(4) I	(4) —
5 - 8	—	—	—	Not Occupied	—	—

K60 Column Lock Module

5200269

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35068228
- Service Connector: 84769201
- Description: 8-Way F Mini 50 Series(BK)

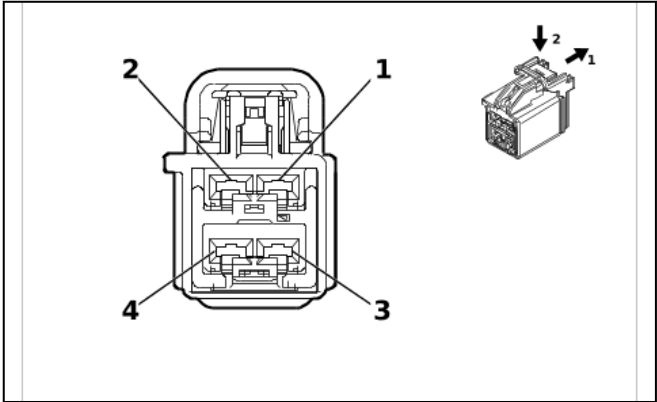
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

K60 Column Lock Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) RD / BN	(1) 4940	(1) Battery Positive Voltage	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) BK / WH	(3) 851	(3) Signal Ground	(3) I	(3) —
(4) 4	(4) 0.35	(4) BU	(4) 4987	(4) AUTOSAR CAN Bus [+] 1 Serial Data	(4) I	(4) —
(5) 5	(5) 0.35	(5) BU / BN	(5) 4987	(5) AUTOSAR CAN Bus [+] 1 Serial Data	(5) I	(5) —
(6) 6	(6) 0.35	(6) WH	(6) 4986	(6) AUTOSAR CAN Bus [-] 1 Serial Data	(6) I	(6) —
(7) 7	(7) 0.35	(7) WH / RD	(7) 4986	(7) AUTOSAR CAN Bus [-] 1 Serial Data	(7) I	(7) —
(8) 8	(8) 0.35	(8) BU / VT	(8) 807	(8) Ignition Off/Accessory Ignition Voltage	(8) I	(8) —

K61 Sunroof Control Module



5515744

Connector Part Information

- Harness Type: Sunroof Wiring Harness
- OEM Connector: 7289-7224-40
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 2.8 YESC Series(GY)

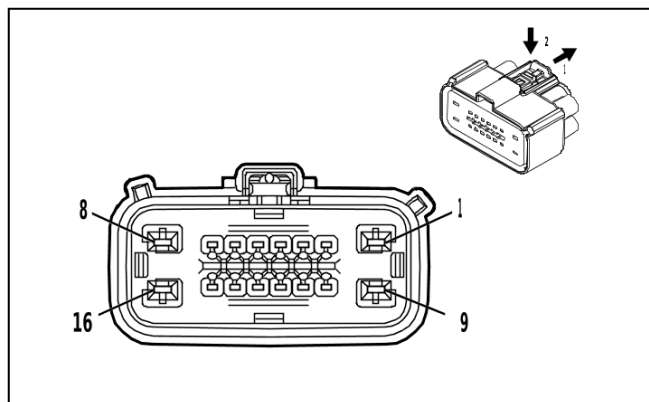
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	No Tool Required	No Tool Required

K61 Sunroof Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.35	(2) GY / BN	(2) 2854	(2) Body Control Module LIN Bus 8	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 1.5	(4) RD / GY	(4) 40	(4) Battery Positive Voltage	(4) I	(4) —
(6) 6	(6) 0.35	(6) GN / BN	(6) 2854	(6) Body Control Module LIN Bus 8	(6) II	(6) —
(8) 8	(8) 1.5	(8) RD / GY	(8) 4540	(8) Battery Positive Voltage	(8) II	(8) —
(10) 10	(10) 1.5	(10) BK	(10) 1050	(10) Ground	(10) I	(10) —

K67 Trailer Brake Control Module (JL1)



4624589

Connector Part Information

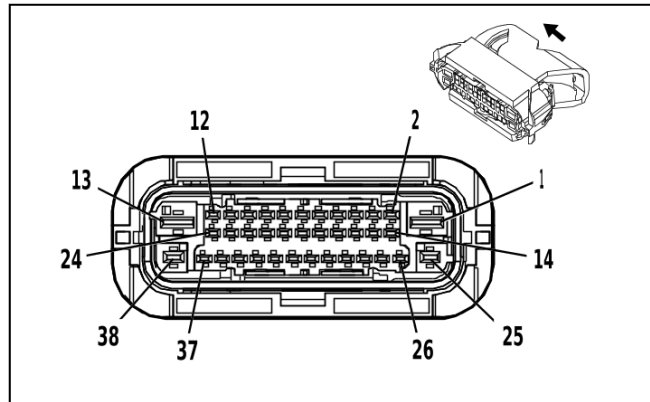
- Harness Type: Chassis Wiring Harness
- OEM Connector: 34985-4016
- Service Connector: 13599889
- Description: 16-Way F 1.5, 2.8 MX Series, Sealed(GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13576377	J-35616-35 (VT)	J-38125-12A
II	85528055	J-35616-2A (GY)	J-38125-217

K67 Trailer Brake Control Module (JL1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) RD / BN	(1) 3640	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH / BK	(2) 2223	(2) Trailer Brake Apply Signal	(2) II	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) YE / BK	(5) 2224	(5) Trailer Brake Enable Signal	(5) II	(5) —
6 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 2.5	(8) BU	(8) 47	(8) Trailer Auxiliary Control	(8) I	(8) —
(9) 9	(9) 2.5	(9) BK	(9) 1850	(9) Ground	(9) I	(9) —
10 - 11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0.5	(12) GN / BU	(12) 2733	(12) Brake System Control Module LIN Bus 2	(12) II	(12) —
13 - 16	—	—	—	Not Occupied	—	—

K68 Trailer Lamp Control Module (UET)

5141918

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 35497871
- Service Connector: 86825459
- Description: 38-Way F 1.5, 2.8, 4.8 MCP Series, Sealed(BK with BN Inner Connector)

Terminal Part Information

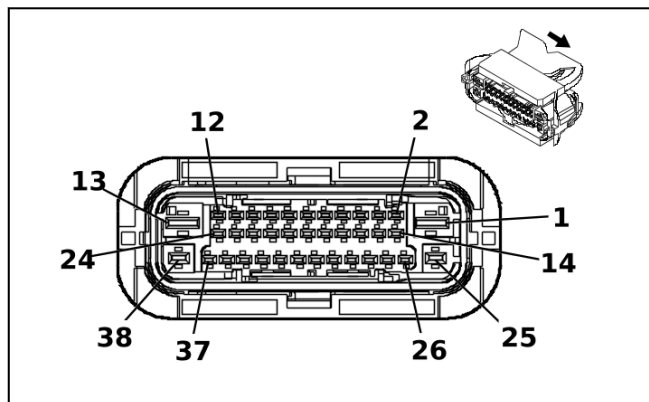
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368624	J-35616-35 (VT)	J-38125-557
II	19369235	J-35616-14 (GN)	EL-38125-560A
III	85158596	J-35616-40 (BU)	J-38125-556

K68 Trailer Lamp Control Module (UET)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) RD / VT	(1) 5640	(1) Battery Positive Voltage	(1) III	(1) —
(2) 2	(2) 1	(2) YE	(2) 1618	(2) Left Rear Trailer Stop/Turn Lamp Control	(2) II	(2) —
(3) 3	(3) 1	(3) GN	(3) 1619	(3) Right Rear Trailer Stop/Turn Lamp Control	(3) II	(3) —
4 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 1	(7) GY	(7) 5189	(7) Trailer Backup Lamp Control	(7) II	(7) —
8 - 9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.3 5	(10) VT / WH	(10) 639	(10) Run/Crank Ignition 1 Voltage	(10) II	(10) —
(11) 11	(11) 0.5	(11) BN / YE	(11) 820	(11) Center High Mounted Stop Lamp Supply Voltage	(11) II	(11) —
12	—	—	—	Not Occupied	—	—
(13) 13	(13) 2.5	(13) BK	(13) 1750	(13) Ground	(13) III	(13) —
14 - 24	—	—	—	Not Occupied	—	—
(25) 25	(25) 1	(25) BN	(25) 2109	(25) Trailer Park Lamp Control	(25) I	(25) —
26	—	—	—	Not Occupied	—	—
(27) 27	(27) 0.5	(27) BU / VT	(27) 4101	(27) AUTOSAR CAN Bus [+] 4 Serial Data	(27) II	(27) —
(28) 28	(28) 0.5	(28) WH	(28) 4100	(28) AUTOSAR CAN Bus [-] 4 Serial Data	(28) II	(28) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(29) 29	(29) 0.5	(29) BU / VT	(29) 4101	(29) AUTOSAR CAN Bus [+] 4 Serial Data	(29) II	(29) —
(30) 30	(30) 0.5	(30) WH	(30) 4100	(30) AUTOSAR CAN Bus [-] 4 Serial Data	(30) II	(30) —
31 - 37	—	—	—	Not Occupied	—	—
(38) 38	(38) 2.5	(38) RD / YE	(38) 5840	(38) Battery Positive Voltage	(38) I	(38) —

K69 Transfer Case Control Module (NP0 / NQH)



5199340

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35497867
- Service Connector: 86825458
- Description: 38-Way F 1.5, 2.8, 4.8 MCP Series, Sealed(BK with BN Inner Connector)

Terminal Part Information

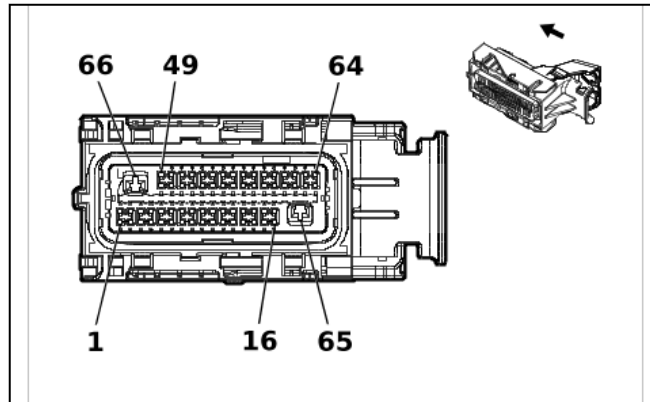
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368624	J-35616-35 (VT)	J-38125-557
II	19369235	J-35616-14 (GN)	EL-38125-560A
III	85158596	J-35616-40 (BU)	J-38125-556

K69 Transfer Case Control Module (NP0 / NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 3	(1) GN / RD	(1) 6042	(1) Cruise Control Switch 5V Reference	(1) III	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) BU / YE	(3) 4979	(3) AUTOSAR CAN Bus [+] 2 Serial Data	(3) II	(3) —
(4) 4	(4) 0.5	(4) WH	(4) 4978	(4) AUTOSAR CAN Bus [-] 2 Serial Data	(4) II	(4) —
(5) 5	(5) 0.5	(5) WH / GN	(5) 7479	(5) Rotary Position Sensor Signal	(5) II	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) YE	(7) 7474	(7) Incremental Encoder Direction Signal	(7) II	(7) —
8	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(9) 9	(9) 0.5	(9) YE / WH	(9) 1695	(9) 4WD Locked Range Indicator Control	(9) II	(9) —
10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.5	(11) VT / GY	(11) 8017	(11) Secondary Axle Motor Relay Control	(11) II	(11) —
(12) 12	(12) 0.5	(12) GY / BK	(12) 1570	(12) Front Axle Actuator Control	(12) II	(12) —
(13) 13	(13) 4	(13) YE / VT	(13) 1553	(13) Transfer Case Motor Counter Clockwise Control	(13) III	(13) —
14	—	—	—	Not Occupied	—	—
(15) 15	(15) 0.5	(15) BU / YE	(15) 4979	(15) AUTOSAR CAN Bus [+] 2 Serial Data	(15) II	(15) —
(16) 16	(16) 0.5	(16) WH	(16) 4978	(16) AUTOSAR CAN Bus [-] 2 Serial Data	(16) II	(16) —
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.5	(18) VT / GN	(18) 439	(18) Run/Crank Ignition 1 Voltage	(18) II	(18) —
(19) 19	(19) 0.5	(19) BU / GY	(19) 7473	(19) Incremental Encoder Impulse Signal	(19) II	(19) —
(20) 20	(20) 0.5	(20) WH / RD	(20) 7477	(20) Gear Position Sensor 5V Reference	(20) II	(20) —
21 - 23	—	—	—	Not Occupied	—	—
(24) 24	(24) 0.5	(24) GN	(24) 8015	(24) Transfer Case Motor Low Reference	(24) II	(24) —
(25) 25	(25) 2.5	(25) BK	(25) 450	(25) Ground	(25) I	(25) —
26	—	—	—	Not Occupied	—	—
(27) 27	(27) 0.5	(27) GN	(27) 8014	(27) Transfer Case Lock Solenoid Low Reference	(27) II	(27) —
28 - 29	—	—	—	Not Occupied	—	—
(30) 30	(30) 0.5	(30) YE / BK	(30) 7478	(30) Gear Position Sensor Low Reference	(30) II	(30) —
(31) 31	(31) 0.5	(31) WH / GN	(31) 7475	(31) Incremental Encoder Sensor Voltage Reference	(31) II	(31) —
32	—	—	—	Not Occupied	—	—
(33) 33	(33) 0.7 5	(33) BU	(33) 8013	(33) Transfer Case Lock Solenoid Control 2	(33) II	(33) —
(34) 34	(34) 0.7 5	(34) YE / BN	(34) 1569	(34) Transfer Case Lock Solenoid Valve Control	(34) II	(34) —
35	—	—	—	Not Occupied	—	—
(36) 36	(36) 0.5	(36) VT	(36) 7476	(36) Incremental Encoder Sensor Low Reference	(36) II	(36) —
37	—	—	—	Not Occupied	—	—
(38) 38	(38) 2.5	(38) YE / GY	(38) 1552	(38) Transfer Case Motor Clockwise Control	(38) I	(38) —

K71 Transmission Control Module



6608989

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 12707497
- Service Connector: 85786014
- Description: 66-Way F 0.64, 2.8 Series, Sealed(BK with BK Terminal Position Assurance)

Terminal Part Information

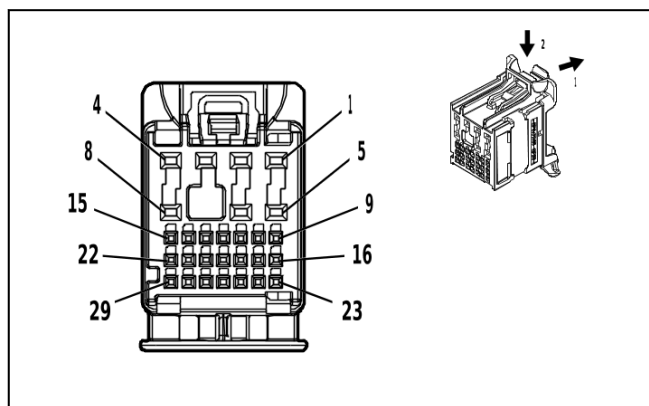
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13587518	J-35616-35 (VT)	J-38125-11A
II	19351723	J-35616-64B (L-BU)	J-38125-213

K71 Transmission Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) WH / BU (1) VT / WH	(1) 4507 (1) 422	(1) Transmission Clutch H Control (1) Torque Converter Clutch Solenoid Valve Control	(1) II (1) II	(1) L3B (1) L84 / L87 / LZ0
(2) 2	(2) 0.5 (2) 0.5	(2) BU (2) GY / GN	(2) 6401 (2) 6403	(2) Clutch Solenoid Valve B Control (2) Clutch Solenoid Valve D Control	(2) II (2) II	(2) L3B (2) L84 / L87 / LZ0
(3) 3	(3) 0.5 (3) 0.5	(3) GN / WH (3) WH / BU	(3) 1530 (3) 4507	(3) Transmission Line Pressure Control Solenoid Valve Control (3) Transmission Clutch H Control	(3) II (3) II	(3) L3B (3) L84 / L87 / LZ0
(4) 4	(4) 0.5	(4) WH	(4) 4508	(4) Transmission Clutch G Control	(4) II	(4) —
(5) 5	(5) 0.5	(5) GY / RD	(5) 10817	(5) Lubricant Circuit Pressure Sensor 5 Volt Reference	(5) II	(5) —
(7) 7	(7) 0.5	(7) YE / GN	(7) 4170	(7) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(7) II	(7) —
(8) 8	(8) 0.5	(8) YE / BU	(8) 4171	(8) Transmission Input Shaft Speed Sensor Circuit 9V Reference	(8) II	(8) —
(11) 11	(11) 0.5	(11) BU / BK	(11) 10819	(11) Lubricant Circuit Pressure Sensor Low Reference	(11) II	(11) —
(12) 12	(12) 0.5	(12) GN / YE	(12) 6353	(12) Input Speed Signal	(12) II	(12) —
(13) 13	(13) 0.5	(13) GN / VT	(13) 4510	(13) Transmission Intermediate Speed Signal	(13) II	(13) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(14) 14	(14) 0.5	(14) GY / BU	(14) 6358	(14) Output Speed Signal	(14) II	(14) —
(15) 15	(15) 0.5 (15) 0.5	(15) BK / YE (15) BN / WH	(15) 6253 (15) 6254	(15) Transmission Input Speed Sensor Ground (15) Transmission Input Speed Sensor Signal	(15) II (15) II	(15) L3B (15) L84 / L87 / LZ0
(17) 17	(17) 0.5 (17) 0.5	(17) WH (17) GN / WH	(17) 4508 (17) 1530	(17) Transmission Clutch G Control (17) Transmission Line Pressure Control Solenoid Valve Control	(17) II (17) II	(17) L3B (17) L84 / L87 / LZ0
(18) 18	(18) 0.5 (18) 0.5	(18) BN (18) YE / BN	(18) 6400 (18) 6404	(18) Clutch Solenoid Valve A Control (18) Clutch Solenoid Valve E Control	(18) II (18) II	(18) L3B (18) L84 / L87 / LZ0
(19) 19	(19) 0.5	(19) GY	(19) 6402	(19) Clutch Solenoid Valve C Control	(19) II	(19) —
(20) 20	(20) 0.5 (20) 0.5	(20) VT / WH (20) VT	(20) 422 (20) 4509	(20) Torque Converter Clutch Solenoid Valve Control (20) Transmission Clutch F Control	(20) II (20) II	(20) L3B (20) L84 / L87 / LZ0
(21) 21	(21) 0.5 (21) 0.5	(21) GN / WH (21) WH / YE	(21) 6380 (21) 2159	(21) Torque Converter Clutch Enable Solenoid Valve A Control (21) Park Inhibit Solenoid Assembly Control	(21) II (21) II	(21) L3B (21) L84 / L87 / LZ0
(22) 22	(22) 0.5 (22) 0.5	(22) YE / BN (22) GN / BK	(22) 6210 (22) 7819	(22) Torque Converter Clutch Enable Solenoid Valve B Control (22) Default Disable Solenoid Control	(22) II (22) II	(22) L3B (22) L84 / L87 / LZ0
(24) 24	(24) 0.5	(24) GN / WH	(24) 2968	(24) Transmission Auxiliary Fluid Pump Control	(24) II	(24) —
(28) 28	(28) 0.5	(28) BK / BN	(28) 586	(28) Transmission Fluid Temperature Sensor Low Reference	(28) II	(28) —
(31) 31	(31) 0.5	(31) GN / VT	(31) 4621	(31) Engine Control Module LIN Bus 1	(31) II	(31) —
(33) 33	(33) 0.5	(33) GN / GY	(33) 6387	(33) Transmission High Side Driver 1 Control	(33) II	(33) —
(35) 35	(35) 0.5	(35) VT / GN	(35) 439	(35) Run/Crank Ignition 1 Voltage	(35) II	(35) —
(37) 37	(37) 0.5	(37) BU / YE	(37) 4979	(37) AUTOSAR CAN Bus [+] 2 Serial Data	(37) II	(37) —
(38) 38	(38) 0.5	(38) WH	(38) 4978	(38) AUTOSAR CAN Bus [-] 2 Serial Data	(38) II	(38) —
(45) 45	(45) 0.5	(45) GN / YE	(45) 1081 6	(45) Lubricant Circuit Pressure Sensor Signal	(45) II	(45) —
(49) 49	(49) 0.5	(49) GY / BN	(49) 6388	(49) Transmission High Side Driver 2 Control	(49) II	(49) —
(53) 53	(53) 0.5	(53) BU / YE	(53) 4979	(53) AUTOSAR CAN Bus [+] 2 Serial Data	(53) II	(53) —
(54) 54	(54) 0.5	(54) WH	(54) 4978	(54) AUTOSAR CAN Bus [-] 2 Serial Data	(54) II	(54) —
(59) 59	(59) 0.5	(59) VT / WH	(59) 6319	(59) Electronic Transmission Range Select Out of Park Switch 2 Signal	(59) II	(59) —
(61) 61	(61) 0.5	(61) WH / YE	(61) 6317	(61) Electronic Transmission Range Select Out of Park Switch Signal	(61) II	(61) —
(62) 62	(62) 0.5	(62) BN	(62) 3706	(62) Electronic Transmission Range Select Switch Analog Signal 1	(62) II	(62) —
(63) 63	(63) 0.5	(63) BN / WH	(63) 585	(63) Transmission Fluid Temperature Sensor Signal	(63) II	(63) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(64) 64	(64) 0.5	(64) BU / WH	(64) 3338	(64) Transmission Internal Mode Switch Mode Control X	(64) II	(64) —
(65) 65	(65) 1.5	(65) BK / WH	(65) 251	(65) Signal Ground	(65) I	(65) —
(66) 66	(66) 1.5	(66) RD / GN	(66) 1840	(66) Battery Positive Voltage	(66) I	(66) —

K73 Telematic Control Module X1

4496253

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 160014-0014
- Service Connector: 13534974
- Description: 29-Way F 0.5 NANO, 1.2 MCON, stAK50h Series(BK with GY Inner Connector)

Terminal Part Information

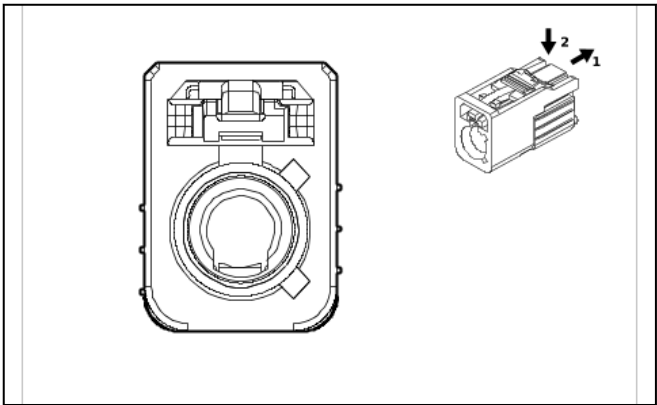
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A
III	Service by Cable	EL-35616-58 (BK)	EL-38125-58

K73 Telematic Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / YE	(1) 3040	(1) Battery Positive Voltage	(1) II	(1) —
2 - 3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.75	(4) BK / WH	(4) 1051	(4) Signal Ground	(4) II	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.35	(6) GN / BK	(6) 2515	(6) Telematics Switch Supply Voltage	(6) II	(6) —
7 - 8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0.35	(9) BU / YE	(9) 4984	(9) AUTOSAR CAN Bus [-] 5 Serial Data	(9) I	(9) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(10) 10	(10) 0.3 5	(10) BU / WH	(10) 4985	(10) AUTOSAR CAN Bus [+] 5 Serial Data	(10) I	(10) —
(11) 11	(11) 0.3 5	(11) GN / WH	(11) 2514	(11) Telematics Switch Signal	(11) I	(11) —
12	—	—	—	Not Occupied	—	—
(13) 13	(13) 0.3 5	(13) BARE	(13) 1792	(13) Low Reference	(13) I	(13) —
(14) 14	(14) 0.3 5	(14) BK / GY	(14) 5152	(14) Voice Recognition Audio [-] Control	(14) I	(14) —
(15) 15	(15) 0.3 5	(15) GY / YE	(15) 5149	(15) Voice Recognition Audio Signal	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) BU / YE	(16) 4984	(16) AUTOSAR CAN Bus [-] 5 Serial Data	(16) I	(16) —
(17) 17	(17) 0.3 5	(17) BU / WH	(17) 4985	(17) AUTOSAR CAN Bus [+] 5 Serial Data	(17) I	(17) —
18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.3 5	(19) YE / VT	(19) 2516	(19) Telematics Switch Green LED Indicator Control	(19) I	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.3 5	(21) BK / BN	(21) 654	(21) Cellular Telephone Microphone Low Reference	(21) I	(21) —
(22) 22	(22) 0.3 5	(22) BU	(22) 655	(22) Cellular Telephone Microphone Signal	(22) I	(22) —
23 - 25	—	—	—	Not Occupied	—	—
(26) 26	(26) 0.3 5	(26) BN / WH	(26) 2517	(26) Telematics Switch Red LED Indicator Control	(26) I	(26) —
27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.3 5	(28) BN	(28) 7211	(28) Ethernet Bus 4 [+]	(28) III	(28) —
(29) 29	(29) 0.3 5	(29) GY	(29) 7210	(29) Ethernet Bus 4 [-]	(29) III	(29) —

K73 Telematic Control Module X2



5630760

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33340312
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(VT)

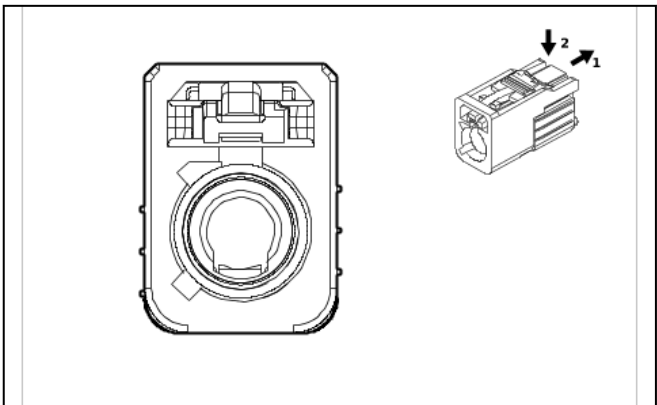
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K73 Telematic Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	(Cell only) Coaxial Antenna Cell Phone Signal	I	—

K73 Telematic Control Module X3



5630785

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33340314
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BN)

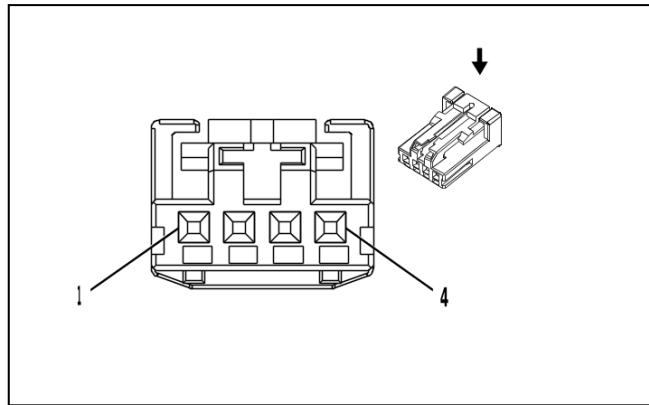
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K73 Telematic Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	(GPS/Cell) Coaxial Antenna Cell/GPS combined Signal	I	—

K77 Remote Function Actuator Module



2717162

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 1-936119-1
- Service Connector: 19367524
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

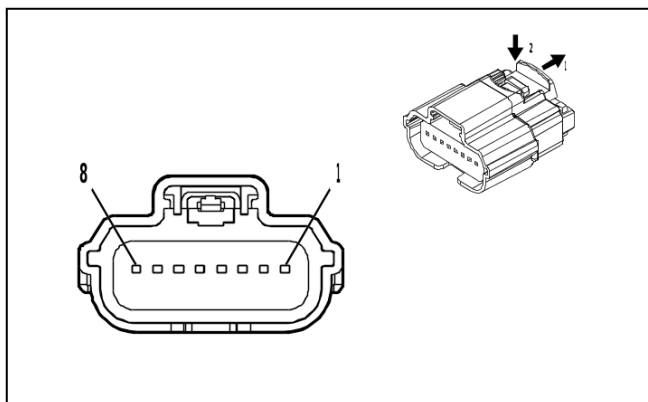
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

K77 Remote Function Actuator Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / VT	(1) 2640	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) GN / YE	(2) 2862	(2) Body Control Module LIN Bus 16	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.75	(4) BK / WH	(4) 1451	(4) Signal Ground	(4) I	(4) —

K85P Restraints Occupant Classification System Module - Passenger (AL0)



4708234

Connector Part Information

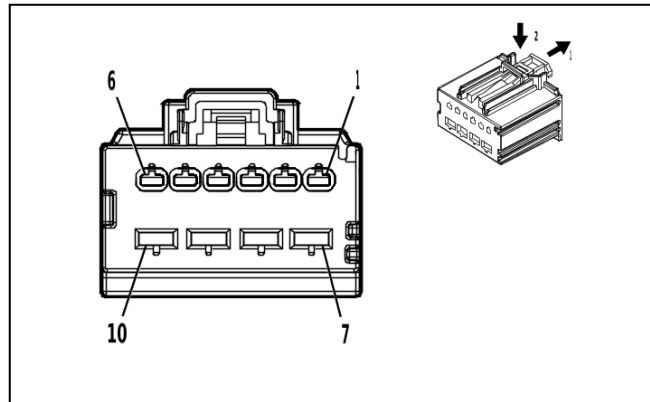
- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 31404-9110
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 64 Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

K85P Restraints Occupant Classification System Module - Passenger (AL0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / GN	(1) 4440	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 4987	(2) AUTOSAR CAN Bus [+] 1 Serial Data	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU	(3) 4987	(3) AUTOSAR CAN Bus [+] 1 Serial Data	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH	(4) 4986	(4) AUTOSAR CAN Bus [-] 1 Serial Data	(4) I	(4) —
(5) 5	(5) 0.5	(5) WH	(5) 4986	(5) AUTOSAR CAN Bus [-] 1 Serial Data	(5) I	(5) —
(6) 6	(6) 0.5	(6) BK / WH	(6) 1251	(6) Signal Ground	(6) I	(6) —
(7) 7	(7) 0.5	(7) OG / BN	(7) 3947	(7) Passenger Automatic Locking Retractor Switch Signal	(7) I	(7) —
(8) 8	(8) 0.5	(8) GY / OG	(8) 3946	(8) Passenger Automatic Locking Retractor Switch Low Reference	(8) I	(8) —

K99 Steering Column Control Module X1 (N38)

5035058

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 31372-1600
- Service Connector: 13525907
- Description: 10-Way F 1.5, 2.8 MX Series(BK)

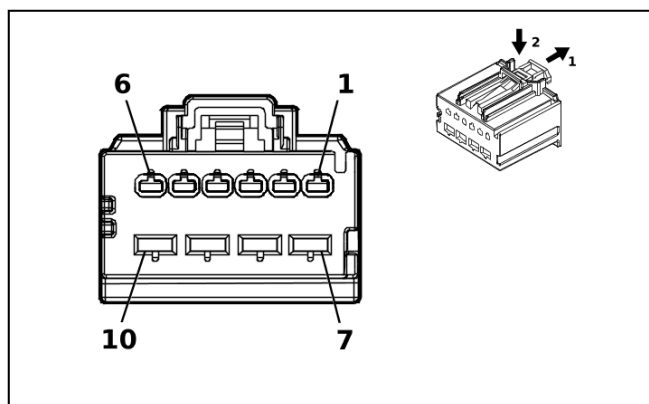
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300432	J-35616-2A (GY)	J-38125-557
II	85544080	J-35616-4A (PU)	J-38125-11A

K99 Steering Column Control Module X1 (N38)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BK	(1) 2020	(1) Steering Column Tilt and Telescope Switch Feedback Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / WH	(2) 7530	(2) Driver Seat Adjuster Memory Module LIN Bus 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / BN	(3) 2095	(3) Steering Column Tilt and Telescope Switch Rearward Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BN / GY	(4) 2096	(4) Steering Column Tilt and Telescope Switch Up Signal	(4) I	(4) —
(5) 5	(5) 0.5	(5) YE / BN	(5) 2097	(5) Steering Column Tilt and Telescope Switch Down Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / YE	(6) 2094	(6) Steering Column Tilt and Telescope Switch Forward Signal	(6) I	(6) —
(7) 7	(7) 0.75	(7) RD / VT	(7) 4640	(7) Battery Positive Voltage	(7) II	(7) —
(8) 8	(8) 1.5	(8) BK	(8) 1050	(8) Ground	(8) II	(8) —
9 - 10	—	—	—	Not Occupied	—	—

K99 Steering Column Control Module X2 (N38)



5190551

Connector Part Information

- Harness Type: Steering Column Tilt and Telescope Wheel Actuator Motor Harness
- OEM Connector: 31372-1700
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 1.5, 2.8 MX Series(GY)

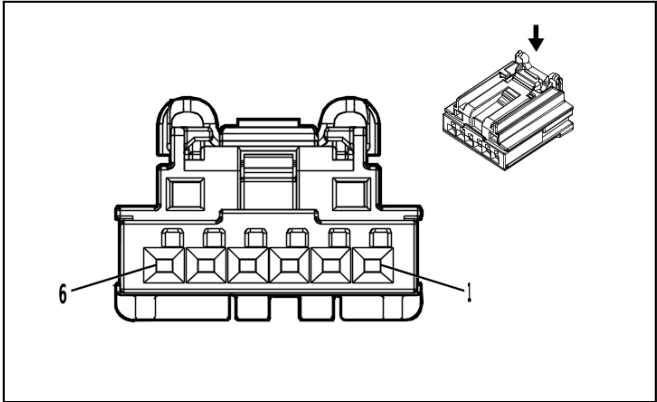
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K99 Steering Column Control Module X2 (N38)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) YE / GY	(1) 2153	(1) Steering Column Telescope Motor Signal	(1) I	(1) —
(2) 2	(2) 0.35	(2) WH	(2) 2152	(2) Steering Column Telescope Motor Low Reference	(2) I	(2) —
(3) 3	(3) 0.35	(3) BN	(3) 2154	(3) Steering Column Tilt Motor Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) BU	(4) 2157	(4) Steering Column Tilt Motor Low Reference	(4) I	(4) —
5 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 1	(7) GN	(7) 2098	(7) Steering Column Telescope Motor Forward Control	(7) I	(7) —
(8) 8	(8) 1	(8) RD	(8) 2110	(8) Steering Column Telescope Motor Rearward Control	(8) I	(8) —
(9) 9	(9) 1	(9) OG	(9) 2112	(9) Steering Column Tilt Motor Down Control	(9) I	(9) —
(10) 10	(10) 1	(10) VT	(10) 2111	(10) Steering Column Tilt Motor Up Control	(10) I	(10) —

K104DP Front Seat Bladder Control Module - Driver Primary



5020940

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 2035363-6
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

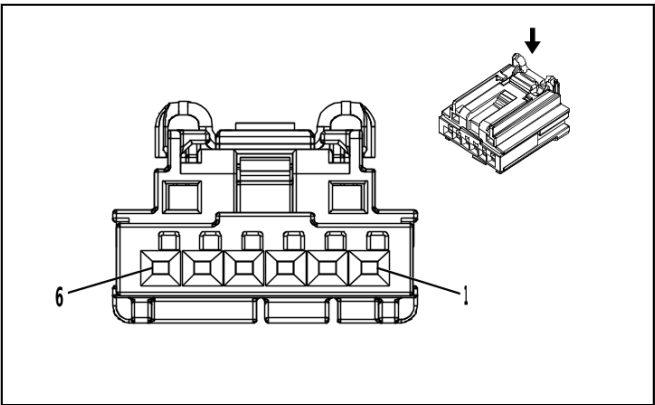
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

K104DP Front Seat Bladder Control Module - Driver Primary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / BN	(1) 2240	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / BK	(2) 2637	(2) Front Seat Bolster Memory Module - Driver LIN Bus 1	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.5	(4) BK	(4) 1550	(4) Ground	(4) I	(4) —
5 - 6	—	—	—	Not Occupied	—	—

K104P Front Seat Bladder Control Module - Passenger (AVU - AKE)



3960313

Connector Part Information

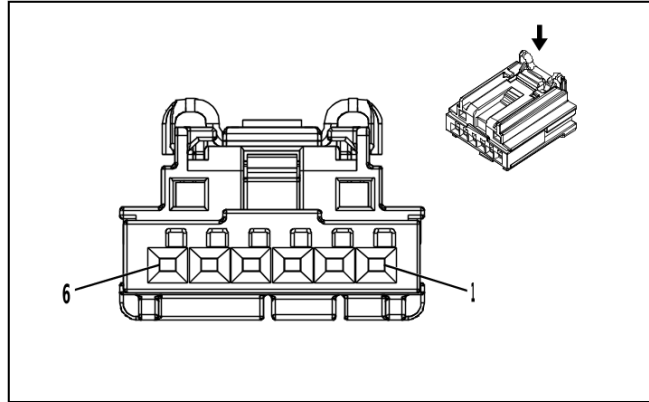
- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 2035363-4
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

K104P Front Seat Bladder Control Module - Passenger (AVU - AKE)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / BN	(1) 2240	(1) Battery Positive Voltage	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) GY / WH	(3) 4890	(3) Passenger Seat Lumbar/Bolster Pump Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 1350	(4) Ground	(4) I	(4) —
(5) 5	(5) 0.5	(5) BK / BU	(5) 2194	(5) Passenger Seat Position Switch Low Reference	(5) I	(5) —
(6) 6	(6) 0.5	(6) YE / GN	(6) 1068	(6) Passenger Seat Lumbar Support Switch Analog Signal	(6) I	(6) —

K104P Front Seat Bladder Control Module - Passenger (AVU & AKE)

3960313

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 2035363-4
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

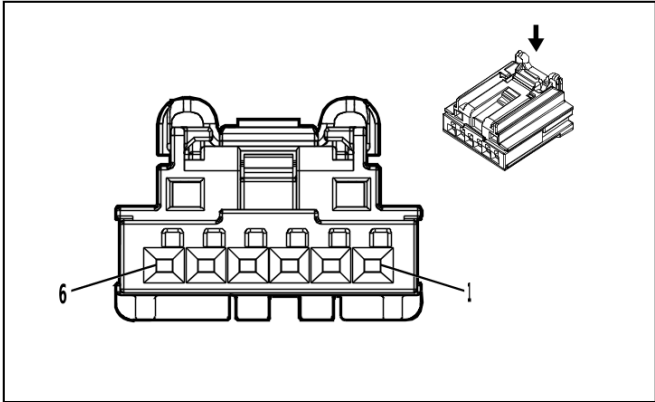
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

K104P Front Seat Bladder Control Module - Passenger (AVU & AKE)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / BN	(1) 2240	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / YE	(2) 4116	(2) Passenger Seat Adjuster Memory Module LIN Bus 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) GY / WH	(3) 4890	(3) Passenger Seat Lumbar/Bolster Pump Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 1350	(4) Ground	(4) I	(4) —
(5) 5	(5) 0.5	(5) GY / BK	(5) 2306	(5) Passenger Seat Bolster Pump Low Reference	(5) I	(5) —
(6) 6	(6) 0.5	(6) GN / BU	(6) 2638	(6) Front Seat Bolster Memory Module - Passenger LIN Bus 1	(6) I	(6) —

K104PS Front Seat Bladder Control Module - Passenger Secondary (AVU & AKE)



5020940

Connector Part Information

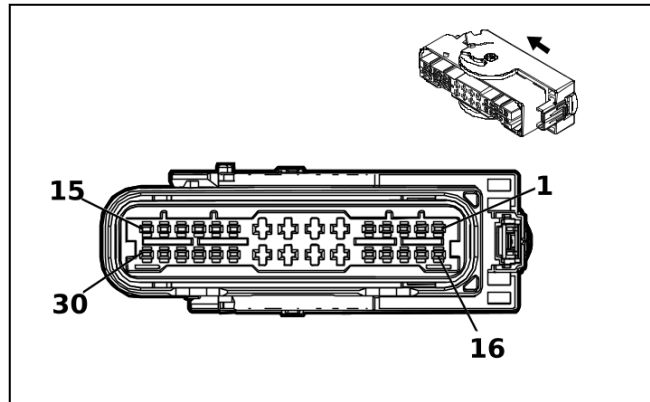
- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 2035363-6
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

K104PS Front Seat Bladder Control Module - Passenger Secondary (AVU & AKE)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / BN	(1) 2240	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / BU	(2) 2638	(2) Front Seat Bolster Memory Module - Passenger LIN Bus 1	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.5	(4) BK	(4) 1350	(4) Ground	(4) I	(4) —
5 - 6	—	—	—	Not Occupied	—	—

K111 Fuel Pump Power Control Module - Double Cab / Crew Cab (FHX / FJW)

3240109

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 5-2109446-2
- Service Connector: 86545828
- Description: 30-Way F 1.5, 2.8 MCP Series, Sealed(BK)

Terminal Part Information

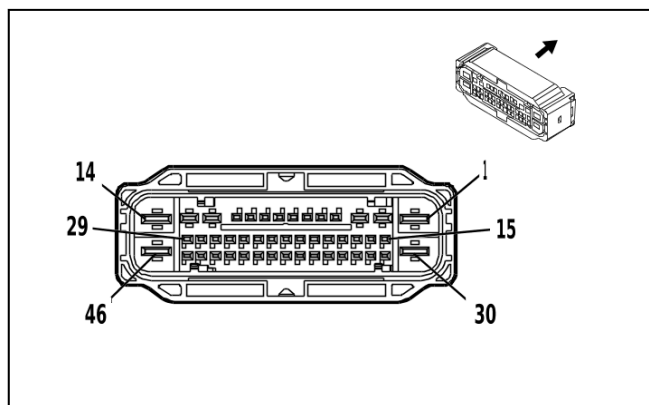
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19329958	J-35616-2A (GY)	J-38125-217
II	19371214	J-35616-35 (VT)	J-38125-556

K111 Fuel Pump Power Control Module - Double Cab / Crew Cab (FHX / FJW)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.5	(2) BU / YE	(2) 6861	(2) Water In Fuel Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / BU	(3) 6863	(3) Water In Fuel Sensor Low Reference	(3) I	(3) —
(4) 4	(4) 0.5	(4) BN / GY	(4) 7072	(4) Fuel Temperature Sensor 1 Signal	(4) I	(4) —
5 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 2.5	(7) RD / VT	(7) 1940	(7) Battery Positive Voltage	(7) II	(7) —
(8) 8	(8) 2.5	(8) GY	(8) 120	(8) Fuel Pump Control	(8) II	(8) —
(9) 9	(9) 2.5	(9) YE / GY	(9) 4137	(9) Fuel Pump Supply Voltage Phase 2	(9) II	(9) —
(10) 10	(10) 0.5	(10) YE / RD	(10) 2709	(10) Fuel Tank Pressure Sensor 5V Reference	(10) I	(10) —
(11) 11	(11) 0.5	(11) BU / WH	(11) 890	(11) Fuel Tank Pressure Sensor Signal	(11) I	(11) —
(12) 12	(12) 0.5	(12) BN / RD	(12) 7445	(12) Fuel Line Pressure Sensor 5V Reference	(12) I	(12) —
(13) 13	(13) 0.5	(13) BU / GN	(13) 1936	(13) Primary Fuel Level Sensor Signal	(13) I	(13) —
14	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(15) 15	(15) 0.5	(15) BU / GY	(15) 4054	(15) Private Serial Data Powertrain CAN Bus [-] Serial Data	(15) I	(15) —
(16) 16	(16) 1 (16) 0.5	(16) VT / GN (16) VT / GN	(16) 4320 (16) 4320	(16) Powertrain Sensor Bus Enable (16) Powertrain Sensor Bus Enable	(16) I (16) I	(16) FHX (16) FJW
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.5	(18) GN / GY	(18) 465	(18) Fuel Pump Primary Relay Control	(18) I	(18) —
(19) 19	(19) 0.5	(19) BN / WH	(19) 7073	(19) Fuel Temperature Sensor 1 Low Reference	(19) I	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.5	(21) WH	(21) 1310	(21) EVAP Vent Solenoid Valve Control	(21) II	(21) —
(22) 22	(22) 2.5	(22) BK	(22) 1650	(22) Ground	(22) II	(22) —
(23) 23	(23) 0.5	(23) WH	(23) 7444	(23) Fuel Pump Assembly Shield Ground	(23) II	(23) —
(24) 24	(24) 2.5	(24) WH / BN	(24) 4138	(24) Fuel Pump Supply Voltage Phase 3	(24) II	(24) —
(25) 25	(25) 0.5	(25) BK / BN	(25) 6284	(25) Fuel Tank Pressure Sensor Low Reference	(25) I	(25) —
(26) 26	(26) 0.5	(26) BU / WH	(26) 7446	(26) Fuel Pressure Sensor Signal	(26) I	(26) —
(27) 27	(27) 0.5	(27) BK / YE	(27) 7447	(27) Fuel Pressure Sensor Low Reference	(27) I	(27) —
(28) 28	(28) 0.5	(28) BK / GN	(28) 6281	(28) Fuel Level Sensor Low Reference	(28) I	(28) —
29	—	—	—	Not Occupied	—	—
(30) 30	(30) 0.5	(30) WH	(30) 4055	(30) Private Serial Data Powertrain CAN Bus [+] Serial Data	(30) I	(30) —

K111 Fuel Pump Power Control Module - Double Cab / Crew Cab (FHR / FHS)



4162046

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 35492372
- Service Connector: 85090369
- Description: 46-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(GY)

Terminal Part Information

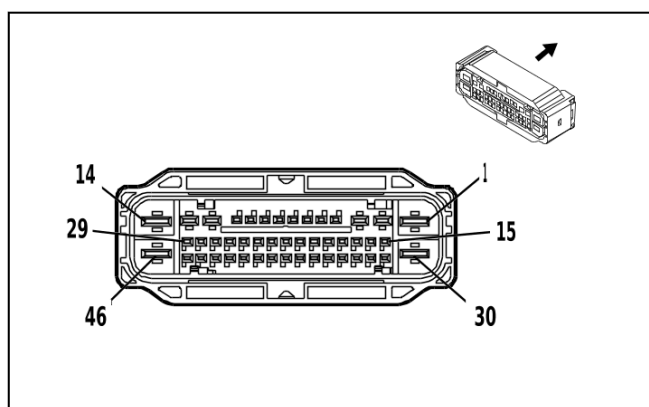
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575368	J-35616-35 (VT)	J-38125-36
II	19370818	J-35616-12 (BU)	J-38125-215A
III	84634921	J-35616-42 (RD)	J-38125-212

K111 Fuel Pump Power Control Module - Double Cab / Crew Cab (FHR / FHS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) WH / BN	(1) 4138	(1) Fuel Pump Supply Voltage Phase 3	(1) III	(1) —
(2) 2	(2) 2.5	(2) GY	(2) 120	(2) Fuel Pump Control	(2) I	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) BK / GY	(5) 3802	(5) Fuel Composition Sensor Low Reference	(5) II	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) WH	(7) 4055	(7) Private Serial Data Powertrain CAN Bus [+] Serial Data	(7) II	(7) —
(8) 8	(8) 0.5	(8) BU / GY	(8) 4054	(8) Private Serial Data Powertrain CAN Bus [-] Serial Data	(8) II	(8) —
9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.5	(10) VT / GN	(10) 4320	(10) Powertrain Sensor Bus Enable	(10) II	(10) —
(11) 11	(11) 0.5	(11) GN / GY	(11) 465	(11) Fuel Pump Primary Relay Control	(11) II	(11) —
12 - 13	—	—	—	Not Occupied	—	—
(14) 14	(14) 2.5	(14) BK	(14) 1650	(14) Ground	(14) III	(14) —
(15) 15	(15) 0.5	(15) WH	(15) 7444	(15) Fuel Pump Assembly Shield Ground	(15) II	(15) —
(16) 16	(16) 0.5	(16) VT / BN	(16) 3803	(16) Fuel Composition Sensor Signal	(16) II	(16) —
17 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.5	(19) BN / RD	(19) 7445	(19) Fuel Line Pressure Sensor 5V Reference	(19) II	(19) —
(20) 20	(20) 0.5	(20) BU / WH	(20) 7446	(20) Fuel Pressure Sensor Signal	(20) II	(20) —
(21) 21	(21) 0.5	(21) BK / GN	(21) 6281	(21) Fuel Level Sensor Low Reference	(21) II	(21) —
22	—	—	—	Not Occupied	—	—
(23) 23	(23) 0.5	(23) BK / BN	(23) 6284	(23) Fuel Tank Pressure Sensor Low Reference	(23) II	(23) —
24 - 29	—	—	—	Not Occupied	—	—
(30) 30	(30) 2.5	(30) YE / GY	(30) 4137	(30) Fuel Pump Supply Voltage Phase 2	(30) III	(30) —
31 - 34	—	—	—	Not Occupied	—	—
(35) 35	(35) 0.5	(35) BK / YE	(35) 7447	(35) Fuel Pressure Sensor Low Reference	(35) II	(35) —
36	—	—	—	Not Occupied	—	—
(37) 37	(37) 0.5	(37) BU / GN	(37) 1936	(37) Primary Fuel Level Sensor Signal	(37) II	(37) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
38	—	—	—	Not Occupied	—	—
(39) 39	(39) 0.5	(39) YE / RD	(39) 2709	(39) Fuel Tank Pressure Sensor 5V Reference	(39) II	(39) —
(40) 40	(40) 0.5	(40) BU / GN	(40) 890	(40) Fuel Tank Pressure Sensor Signal	(40) II	(40) —
41 - 42	—	—	—	Not Occupied	—	—
(43) 43	(43) 0.5	(43) WH	(43) 1310	(43) EVAP Vent Solenoid Valve Control	(43) II	(43) —
44 - 45	—	—	—	Not Occupied	—	—
(46) 46	(46) 2.5	(46) RD / VT	(46) 1940	(46) Battery Positive Voltage	(46) III	(46) —

K111 Fuel Pump Power Control Module - Regular Cab (FHR / FHS)



4162046

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 35492372
- Service Connector: 85090369
- Description: 46-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(GY)

Terminal Part Information

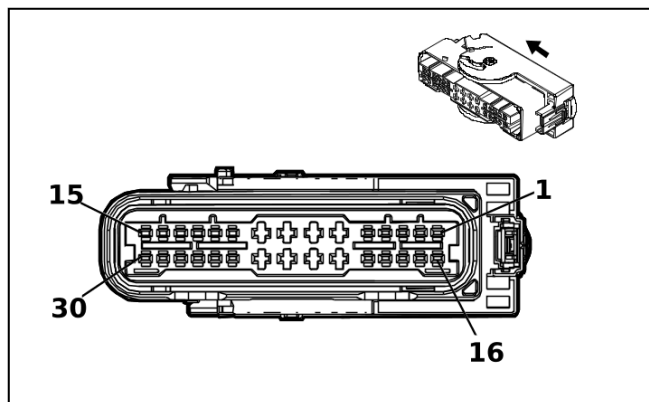
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575368	J-35616-35 (VT)	J-38125-36
II	19370818	J-35616-12 (BU)	J-38125-215A
III	84634921	J-35616-42 (RD)	J-38125-212

K111 Fuel Pump Power Control Module - Regular Cab (FHR / FHS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) WH / BN	(1) 4138	(1) Fuel Pump Supply Voltage Phase 3	(1) III	(1) —
(2) 2	(2) 2.5	(2) GY	(2) 120	(2) Fuel Pump Control	(2) I	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) BK / GY	(5) 3802	(5) Fuel Composition Sensor Low Reference	(5) II	(5) —
6	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(7) 7	(7) 0.5	(7) WH	(7) 4055	(7) Private Serial Data Powertrain CAN Bus [+] Serial Data	(7) II	(7) —
(8) 8	(8) 0.5	(8) BU / GY	(8) 4054	(8) Private Serial Data Powertrain CAN Bus [-] Serial Data	(8) II	(8) —
9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.5	(10) VT / GN	(10) 4320	(10) Powertrain Sensor Bus Enable	(10) II	(10) —
(11) 11	(11) 0.5	(11) GN / GY	(11) 465	(11) Fuel Pump Primary Relay Control	(11) II	(11) —
12 - 13	—	—	—	Not Occupied	—	—
(14) 14	(14) 2.5	(14) BK	(14) 1650	(14) Ground	(14) III	(14) —
(15) 15	(15) 0.5	(15) WH	(15) 7444	(15) Fuel Pump Assembly Shield Ground	(15) II	(15) —
(16) 16	(16) 0.5	(16) VT / BN	(16) 3803	(16) Fuel Composition Sensor Signal	(16) II	(16) —
17 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.5	(19) BN / RD	(19) 7445	(19) Fuel Line Pressure Sensor 5V Reference	(19) II	(19) —
(20) 20	(20) 0.5	(20) BU / WH	(20) 7446	(20) Fuel Pressure Sensor Signal	(20) II	(20) —
(21) 21	(21) 0.5	(21) BK / GN	(21) 6281	(21) Fuel Level Sensor Low Reference	(21) II	(21) —
22	—	—	—	Not Occupied	—	—
(23) 23	(23) 0.5	(23) BK / BN	(23) 6284	(23) Fuel Tank Pressure Sensor Low Reference	(23) II	(23) —
24 - 29	—	—	—	Not Occupied	—	—
(30) 30	(30) 2.5	(30) YE / GY	(30) 4137	(30) Fuel Pump Supply Voltage Phase 2	(30) III	(30) —
31 - 34	—	—	—	Not Occupied	—	—
(35) 35	(35) 0.5	(35) BK / YE	(35) 7447	(35) Fuel Pressure Sensor Low Reference	(35) II	(35) —
36	—	—	—	Not Occupied	—	—
(37) 37	(37) 0.5	(37) BU / GN	(37) 1936	(37) Primary Fuel Level Sensor Signal	(37) II	(37) —
38	—	—	—	Not Occupied	—	—
(39) 39	(39) 0.5	(39) YE / RD	(39) 2709	(39) Fuel Tank Pressure Sensor 5V Reference	(39) II	(39) —
(40) 40	(40) 0.5	(40) BU / WH	(40) 890	(40) Fuel Tank Pressure Sensor Signal	(40) II	(40) —
41 - 42	—	—	—	Not Occupied	—	—
(43) 43	(43) 0.5	(43) WH	(43) 1310	(43) EVAP Vent Solenoid Valve Control	(43) II	(43) —
44 - 45	—	—	—	Not Occupied	—	—
(46) 46	(46) 2.5	(46) RD / VT	(46) 1940	(46) Battery Positive Voltage	(46) III	(46) —

K111 Fuel Pump Power Control Module - Regular Cab (FHX / FJW)



3240109

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 5-2109446-2
- Service Connector: 86545828
- Description: 30-Way F 1.5, 2.8 MCP Series, Sealed(BK)

Terminal Part Information

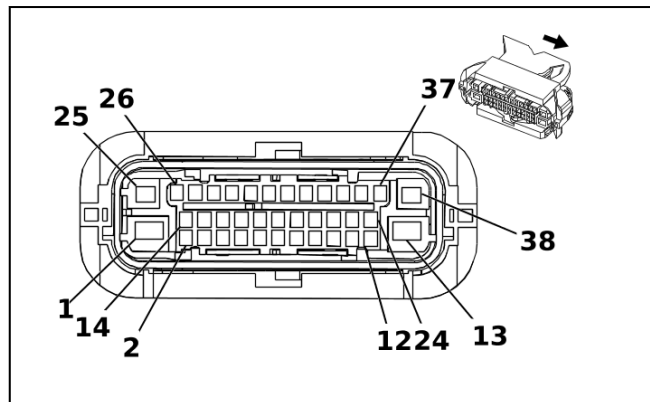
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19329958	J-35616-2A (GY)	J-38125-217
II	19371214	J-35616-35 (VT)	J-38125-556

K111 Fuel Pump Power Control Module - Regular Cab (FHX / FJW)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 2.5	(7) RD / VT	(7) 1940	(7) Battery Positive Voltage	(7) II	(7) —
(8) 8	(8) 2.5	(8) GY	(8) 120	(8) Fuel Pump Control	(8) II	(8) —
(9) 9	(9) 2.5	(9) YE / GY	(9) 4137	(9) Fuel Pump Supply Voltage Phase 2	(9) II	(9) —
(10) 10	(10) 0.5	(10) YE / RD	(10) 2709	(10) Fuel Tank Pressure Sensor 5V Reference	(10) I	(10) —
(11) 11	(11) 0.5	(11) BU / WH	(11) 890	(11) Fuel Tank Pressure Sensor Signal	(11) I	(11) —
(12) 12	(12) 0.5	(12) BN / RD	(12) 7445	(12) Fuel Line Pressure Sensor 5V Reference	(12) I	(12) —
(13) 13	(13) 0.5	(13) BU / GN	(13) 1936	(13) Primary Fuel Level Sensor Signal	(13) I	(13) —
14	—	—	—	Not Occupied	—	—
(15) 15	(15) 0.5	(15) BU / GY	(15) 4054	(15) Private Serial Data Powertrain CAN Bus [-] Serial Data	(15) I	(15) —
(16) 16	(16) 0.5	(16) VT / GN	(16) 4320	(16) Powertrain Sensor Bus Enable	(16) I	(16) —
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.5	(18) GN / GY	(18) 465	(18) Fuel Pump Primary Relay Control	(18) I	(18) —
19 - 20	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(21) 21	(21) 0.5	(21) WH	(21) 1310	(21) EVAP Vent Solenoid Valve Control	(21) II	(21) —
(22) 22	(22) 2.5	(22) BK	(22) 1650	(22) Ground	(22) II	(22) —
(23) 23	(23) 0.5	(23) WH	(23) 7444	(23) Fuel Pump Assembly Shield Ground	(23) II	(23) —
(24) 24	(24) 2.5	(24) WH / BN	(24) 4138	(24) Fuel Pump Supply Voltage Phase 3	(24) II	(24) —
(25) 25	(25) 0.5	(25) BK / BN	(25) 6284	(25) Fuel Tank Pressure Sensor Low Reference	(25) I	(25) —
(26) 26	(26) 0.5	(26) BU / WH	(26) 7446	(26) Fuel Pressure Sensor Signal	(26) I	(26) —
(27) 27	(27) 0.5	(27) BK / YE	(27) 7447	(27) Fuel Pressure Sensor Low Reference	(27) I	(27) —
(28) 28	(28) 0.5	(28) BK / GN	(28) 6281	(28) Fuel Level Sensor Low Reference	(28) I	(28) —
29	—	—	—	Not Occupied	—	—
(30) 30	(30) 0.5	(30) WH	(30) 4055	(30) Private Serial Data Powertrain CAN Bus [+] Serial Data	(30) I	(30) —

K115 Reductant Control Module (LZ0)



3240110

Connector Part Information

- Harness Type: Emission Reduction Fluid Tank Reservoir Wire Harness
- OEM Connector: 13582126
- Service Connector: Service by Harness - See Part Catalog
- Description: 38-Way F 1.5 CTS, 2.8 MCP, 4.8 MCP Series, Sealed(BK with BK Inner Connector)

Terminal Part Information

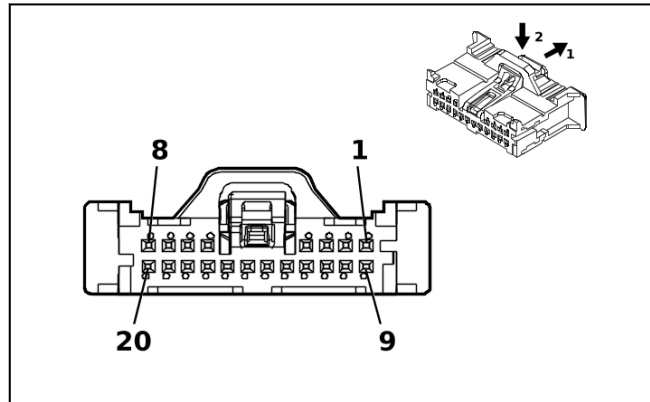
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-40 (BU)	No Tool Required
III	Not required	J-35616-4A (PU)	No Tool Required

K115 Reductant Control Module (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 3	(1) BK	(1) 2040	(1) Battery Positive Voltage	(1) II	(1) —
(2) 2	(2) 1	(2) BN	(2) 3676	(2) Diesel Exhaust Fluid Heating Tank 2 Heater Control	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 1	(4) YE	(4) 3677	(4) Diesel Exhaust Fluid Reservoir Heater Control	(4) I	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.5	(6) BK	(6) 3244	(6) Diesel Exhaust Fluid Tank Temperature Sensor Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) BK	(7) 7290	(7) Diesel Exhaust Fluid Sensor Voltage Reference 1	(7) I	(7) —
(8) 8	(8) 0.5	(8) BN	(8) 7284	(8) Diesel Exhaust Fluid Liquid Quality Temperature Signal	(8) I	(8) —
(9) 9	(9) 0.5	(9) BK	(9) 8434	(9) Diesel Exhaust Fluid Sensor Low Reference	(9) I	(9) —
10	—	—	—	Not Occupied	—	—
(11) 11	(11) 1	(11) YE	(11) 3876	(11) Diesel Exhaust Fluid Smart Pump Supply Voltage Phase 3	(11) I	(11) —
12	—	—	—	Not Occupied	—	—
(13) 13	(13) 3	(13) WH	(13) 1650	(13) Ground	(13) II	(13) —
(14) 14	(14) 1	(14) BN	(14) 2936	(14) Diesel Exhaust Fluid Heating Tank 2 Heater Control Low	(14) I	(14) —
15	—	—	—	Not Occupied	—	—
(16) 16	(16) 1	(16) BU	(16) 4318	(16) Diesel Exhaust Fluid Tank Heater Low Control	(16) I	(16) —
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.5	(18) BN	(18) 3245	(18) Diesel Exhaust Fluid Tank Temperature Sensor Low Reference	(18) I	(18) —
(19) 19	(19) 0.5	(19) BN	(19) 3106	(19) Diesel Exhaust Fluid Pressure Sensor 5 Volt Reference	(19) I	(19) —
(20) 20	(20) 0.5	(20) BU	(20) 3108	(20) Diesel Exhaust Fluid Pressure Sensor Signal	(20) I	(20) —
(21) 21	(21) 0.5	(21) BU	(21) 3107	(21) Diesel Exhaust Fluid Pressure Sensor Low Reference	(21) I	(21) —
22 - 23	—	—	—	Not Occupied	—	—
(24) 24	(24) 1	(24) BN	(24) 3875	(24) Diesel Exhaust Fluid Smart Pump Supply Voltage Phase 2	(24) I	(24) —
(25) 25	(25) 2	(25) BK	(25) 1650	(25) Ground	(25) III	(25) —
(26) 26	(26) 1	(26) WH	(26) 3199	(26) Diesel Exhaust Fluid Pressure Line Heater Control	(26) I	(26) —
27	—	—	—	Not Occupied	—	—
(28) 28	(28) 1	(28) BN	(28) 4319	(28) Diesel Exhaust Fluid Line Heater Low Control	(28) I	(28) —
29	—	—	—	Not Occupied	—	—
(30) 30	(30) 0.5	(30) BN	(30) 639	(30) Run/Crank Ignition 1 Voltage	(30) I	(30) —
(31) 31	(31) 0.5	(31) BU	(31) 4977	(31) AUTOSAR CAN Bus [+] 3 Serial Data	(31) I	(31) —
(32) 32	(32) 0.5	(32) BU	(32) 4977	(32) AUTOSAR CAN Bus [+] 3 Serial Data	(32) I	(32) —
(33) 33	(33) 0.5	(33) BN	(33) 4976	(33) AUTOSAR CAN Bus [-] 3 Serial Data	(33) I	(33) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(34) 34	(34) 0.5	(34) BN	(34) 4976	(34) AUTOSAR CAN Bus [-] 3 Serial Data	(34) I	(34) —
35	—	—	—	Not Occupied	—	—
(36) 36	(36) 1	(36) BU	(36) 2937	(36) Diesel Exhaust Fluid Pump Motor Stator Low Reference	(36) I	(36) —
(37) 37	(37) 1	(37) WH	(37) 3103	(37) Diesel Exhaust Fluid Smart Pump Control	(37) I	(37) —
(38) 38	(38) 2	(38) RD	(38) 3440	(38) Battery Positive Voltage	(38) III	(38) —

K124 Image Processing Module X1 (UGN - UKL)



5200955

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 35068196
- Service Connector: Service by Harness - See Part Catalog
- Description: 20-Way F Mini 50 Series(BK)

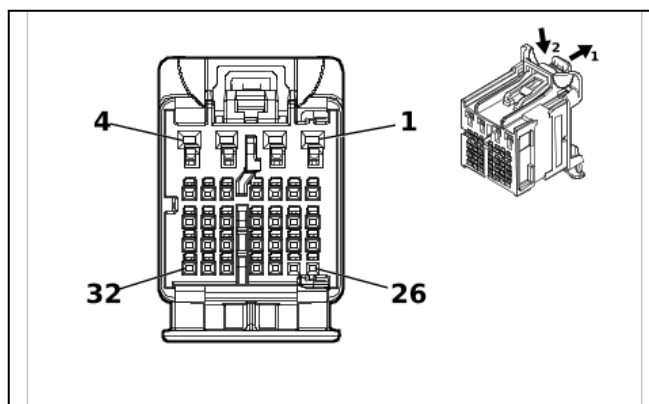
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

K124 Image Processing Module X1 (UGN - UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK / WH	(1) 1451	(1) Signal Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) RD / WH	(2) 4740	(2) Battery Positive Voltage	(2) I	(2) —
3 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.35	(6) WH	(6) 4986	(6) AUTOSAR CAN Bus [-] 1 Serial Data	(6) I	(6) —
(7) 7	(7) 0.35	(7) BU	(7) 4987	(7) AUTOSAR CAN Bus [+] 1 Serial Data	(7) I	(7) —
8 - 17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.35	(18) WH	(18) 4986	(18) AUTOSAR CAN Bus [-] 1 Serial Data	(18) I	(18) —
(19) 19	(19) 0.35	(19) BU	(19) 4987	(19) AUTOSAR CAN Bus [+] 1 Serial Data	(19) I	(19) —
20	—	—	—	Not Occupied	—	—

K124 Image Processing Module X1 (UGN & UKL)



5493608

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 160028-0011
- Service Connector: Service by Harness - See Part Catalog
- Description: 32-Way F 0.5 NANO, 1.2 MCON, stAK50h Series(BK with GY Inner Connector)

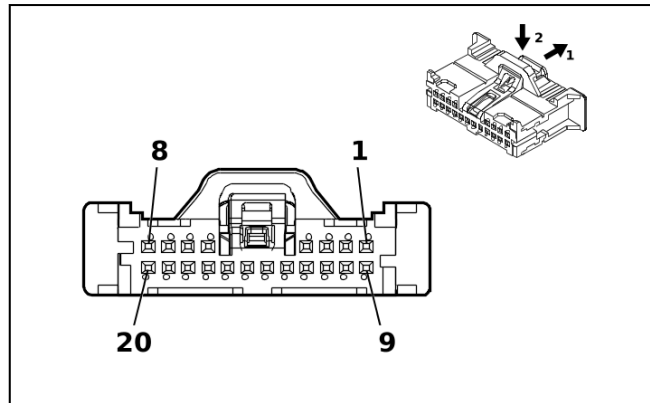
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required
II	Service by Cable	EL-35616-58 (BK)	EL-38125-58

K124 Image Processing Module X1 (UGN & UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.35	(5) RD / WH	(5) 4740	(5) Battery Positive Voltage	(5) I	(5) —
6 - 8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0.35	(9) WH	(9) 4986	(9) AUTOSAR CAN Bus [-] 1 Serial Data	(9) I	(9) —
(10) 10	(10) 0.35	(10) BU	(10) 4987	(10) AUTOSAR CAN Bus [+] 1 Serial Data	(10) I	(10) —
11 - 15	—	—	—	Not Occupied	—	—
(16) 16	(16) 0.35	(16) WH	(16) 4986	(16) AUTOSAR CAN Bus [-] 1 Serial Data	(16) I	(16) —
(17) 17	(17) 0.35	(17) BU	(17) 4987	(17) AUTOSAR CAN Bus [+] 1 Serial Data	(17) I	(17) —
18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.35	(19) BK / WH	(19) 1451	(19) Signal Ground	(19) I	(19) —
20 - 22	—	—	—	Not Occupied	—	—
(23) 23	(23) 0.35	(23) GN / GY	(23) 4627	(23) Image Processing Module LIN Bus 1	(23) I	(23) —
24 - 26	—	—	—	Not Occupied	—	—
(27) 27	(27) 0.35	(27) VT / GY	(27) 8978	(27) Inertial Sensor Supply Voltage	(27) I	(27) —
28 - 30	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(31) 31	(31) 0.3 5	(31) WH	(31) 7225	(31) Ethernet Bus 11 [+]	(31) II	(31) —
(32) 32	(32) 0.3 5	(32) BU	(32) 7224	(32) Ethernet Bus 11 [-]	(32) II	(32) —

K124 Image Processing Module X2 (UGN - UKL)

5360760

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 35068197
- Service Connector: Service by Harness - See Part Catalog
- Description: 20-Way F 050 CTS Series(GY)

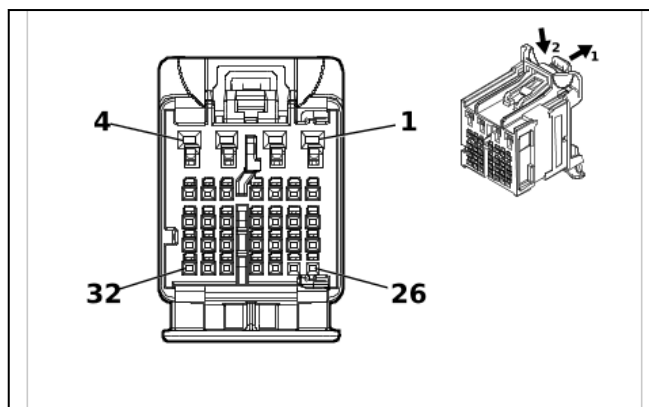
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

K124 Image Processing Module X2 (UGN - UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) WH	(1) 4978	(1) AUTOSAR CAN Bus [-] 2 Serial Data	(1) I	(1) —
(2) 2	(2) 0.35	(2) WH	(2) 4978	(2) AUTOSAR CAN Bus [-] 2 Serial Data	(2) I	(2) —
(3) 3	(3) 0.35	(3) BU / YE	(3) 4979	(3) AUTOSAR CAN Bus [+] 2 Serial Data	(3) I	(3) —
(4) 4	(4) 0.35	(4) BU / YE	(4) 4979	(4) AUTOSAR CAN Bus [+] 2 Serial Data	(4) I	(4) —
(5) 5	(5) 0.35	(5) WH / GY	(5) 4104	(5) AUTOSAR CAN Bus [-] 8 Serial Data	(5) I	(5) —
6 - 9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.3 5	(10) WH	(10) 4978	(10) AUTOSAR CAN Bus [-] 2 Serial Data	(10) I	(10) —
(11) 11	(11) 0.3 5	(11) BU / YE	(11) 4979	(11) AUTOSAR CAN Bus [+] 2 Serial Data	(11) I	(11) —
12 - 16	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(17) 17	(17) 0.3 5	(17) BU / GY	(17) 4105	(17) AUTOSAR CAN Bus [+] 8 Serial Data	(17) I	(17) —
18 - 20	—	—	—	Not Occupied	—	—

K124 Image Processing Module X2 (UGN & UKL)

5493614

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 160028-0013
- Service Connector: Service by Harness - See Part Catalog
- Description: 32-Way F 0.5 NANO, 1.2 MCON, stAK50h Series(GY with GY Inner Connector)

Terminal Part Information

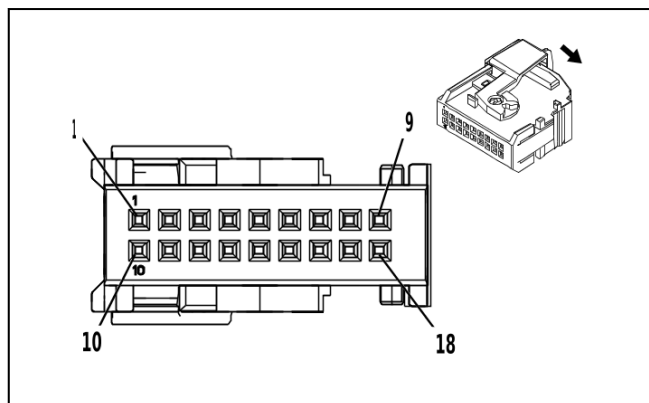
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required
II	Not required	No Tool Required	No Tool Required

K124 Image Processing Module X2 (UGN & UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) YE	(1) 4978	(1) AUTOSAR CAN Bus [-] 2 Serial Data	(1) II	(1) —
(2) 2	(2) 0.35	(2) YE	(2) 4978	(2) AUTOSAR CAN Bus [-] 2 Serial Data	(2) II	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.35	(5) YE	(5) 4978	(5) AUTOSAR CAN Bus [-] 2 Serial Data	(5) I	(5) —
(6) 6	(6) 0.35	(6) YE	(6) 4978	(6) AUTOSAR CAN Bus [-] 2 Serial Data	(6) I	(6) —
(7) 7	(7) 0.35	(7) BU / YE	(7) 4979	(7) AUTOSAR CAN Bus [+] 2 Serial Data	(7) I	(7) —
(8) 8	(8) 0.35	(8) BU / YE	(8) 4979	(8) AUTOSAR CAN Bus [+] 2 Serial Data	(8) I	(8) —
(9) 9	(9) 0.35	(9) WH / GY	(9) 4104	(9) AUTOSAR CAN Bus [-] 8 Serial Data	(9) I	(9) —
(10) 10	(10) 0.3 5	(10) BU / GY	(10) 4105	(10) AUTOSAR CAN Bus [+] 8 Serial Data	(10) I	(10) —
11 - 12	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(13) 13	(13) 0.3 5	(13) YE	(13) 4978	(13) AUTOSAR CAN Bus [-] 2 Serial Data	(13) I	(13) —
(14) 14	(14) 0.3 5	(14) BU / YE	(14) 4979	(14) AUTOSAR CAN Bus [+] 2 Serial Data	(14) I	(14) —
(15) 15	(15) 0.3 5	(15) WH / GY	(15) 4104	(15) AUTOSAR CAN Bus [-] 8 Serial Data	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) WH / GY	(16) 4104	(16) AUTOSAR CAN Bus [-] 8 Serial Data	(16) I	(16) —
(17) 17	(17) 0.3 5	(17) BU / GY	(17) 4105	(17) AUTOSAR CAN Bus [+] 8 Serial Data	(17) I	(17) —
(18) 18	(18) 0.3 5	(18) BU / GY	(18) 4105	(18) AUTOSAR CAN Bus [+] 8 Serial Data	(18) I	(18) —
19 - 20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.3 5	(21) BU / YE	(21) 8977	(21) Private Serial Data Active Safety CAN Bus [+] Serial Data	(21) I	(21) —
(22) 22	(22) 0.3 5	(22) WH / YE	(22) 8976	(22) Private Serial Data Active Safety CAN Bus [-] Serial Data	(22) I	(22) —
23 - 32	—	—	—	Not Occupied	—	—

K157 Video Processing Module X1 (UV2)



4329088

Connector Part Information

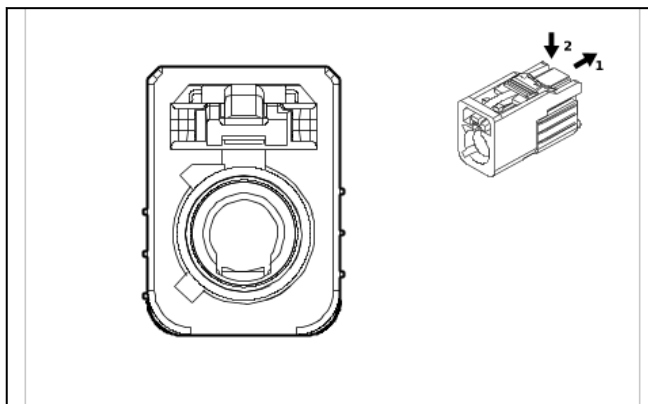
- Harness Type: Body Wiring Harness
- OEM Connector: 3-2282182-1
- Service Connector: 84976200
- Description: 18-Way F 0.64 Micro-Quadlock Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300632	J-35616-64B (L-BU)	J-38125-215A

K157 Video Processing Module X1 (UV2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.75	(3) BK / WH	(3) 1451	(3) Signal Ground	(3) I	(3) —
4 - 9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.5	(10) RD / VT	(10) 1640	(10) Battery Positive Voltage	(10) I	(10) —
11 - 12	—	—	—	Not Occupied	—	—
(13) 13	(13) 0.5	(13) WH	(13) 4986	(13) AUTOSAR CAN Bus [-] 1 Serial Data	(13) I	(13) —
(14) 14	(14) 0.5	(14) WH	(14) 4986	(14) AUTOSAR CAN Bus [-] 1 Serial Data	(14) I	(14) —
(15) 15	(15) 0.5	(15) BU	(15) 4987	(15) AUTOSAR CAN Bus [+] 1 Serial Data	(15) I	(15) —
(16) 16	(16) 0.5	(16) BU	(16) 4987	(16) AUTOSAR CAN Bus [+] 1 Serial Data	(16) I	(16) —
17 - 18	—	—	—	Not Occupied	—	—

K157 Video Processing Module X3 (UV2)

5630785

Connector Part Information

- Harness Type: Body Wiring Harness COAX
- OEM Connector: 33340314
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BN)

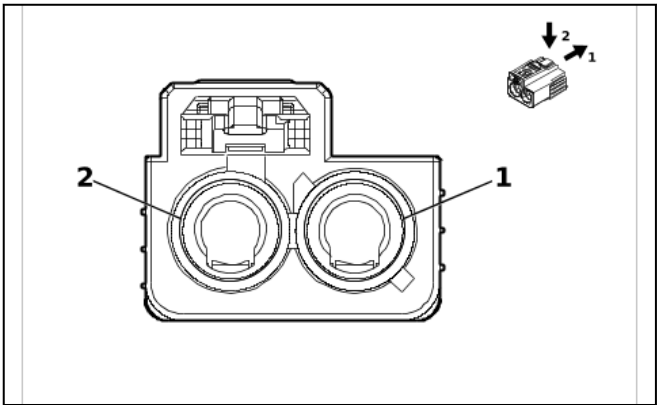
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K157 Video Processing Module X3 (UV2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Video Processing Module Coaxial Video Signal	I	—

K157 Video Processing Module X4 (UV2)



5810836

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33340386
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 2-Way F Coax Type(BG)

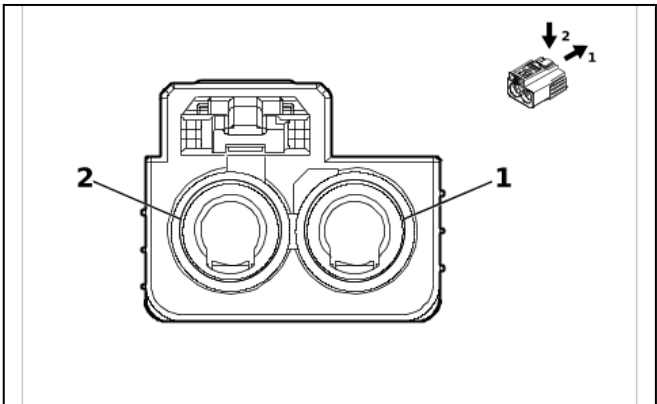
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K157 Video Processing Module X4 (UV2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0	(2) BARE	(2) 2548	(2) Cargo Bed Rear Vision Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(2) I	(2) —

K157 Video Processing Module X5 (UV2)



5810827

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33340382
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 2-Way F Coax Type(GN)

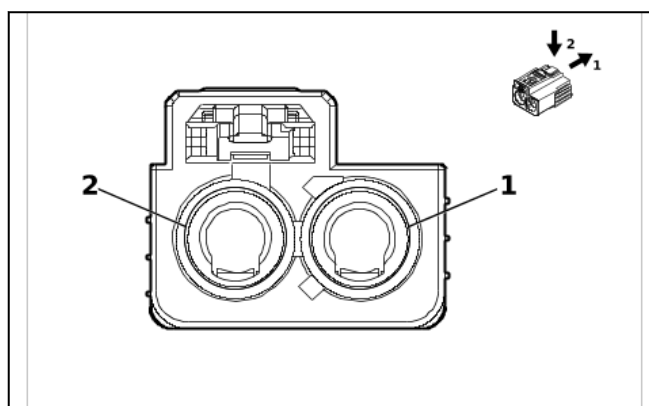
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K157 Video Processing Module X5 (UV2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BARE	(1) 7886	(1) Trailer 2 Rear Vision Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(1) I	(1) —
(2) 2	(2) 0.8	(2) BK	(2) 2421	(2) Trailer Rear Vision Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(2) I	(2) —

K157 Video Processing Module X6 (UV2)



5810832

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33340383
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 2-Way F Coax Type(BN)

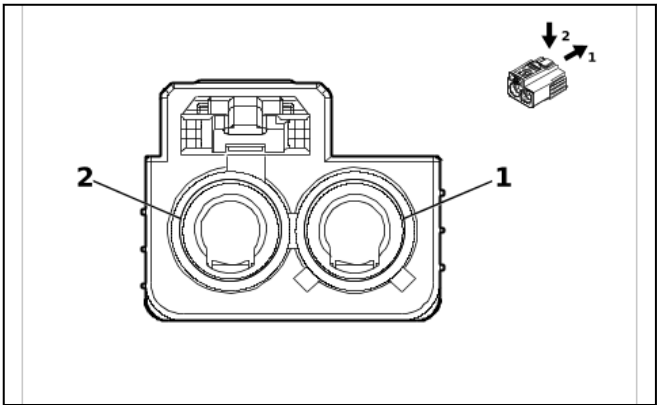
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K157 Video Processing Module X6 (UV2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.16	(1) BK	(1) 4724	(1) Right Sideview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(1) I	(1) —
(2) 2	(2) 0.16	(2) BK	(2) 4725	(2) Left Sideview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(2) I	(2) —

K157 Video Processing Module X7 (UV2)



5810835

Connector Part Information

- Harness Type: Body Wiring Harness COAX
- OEM Connector: 33340387
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 2-Way F Coax Type(CU)

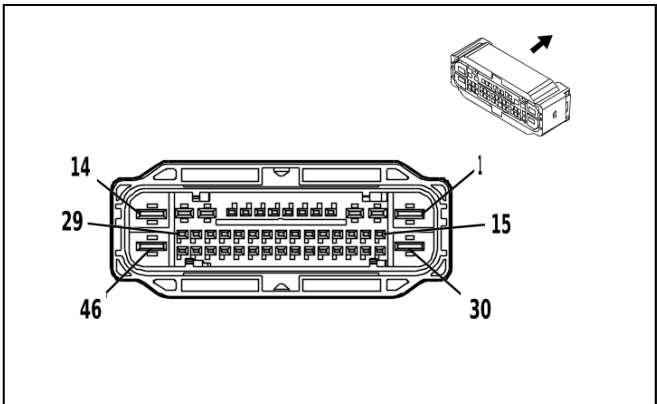
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K157 Video Processing Module X7 (UV2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.76	(1) BARE	(1) 4722	(1) Frontview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(1) I	(1) —
(2) 2	(2) 0.16	(2) BK	(2) 4721	(2) Rearview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(2) I	(2) —

K160 Brake System Control Module



4162046

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 13557960
- Service Connector: 85090369
- Description: 46-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(GY)

Terminal Part Information

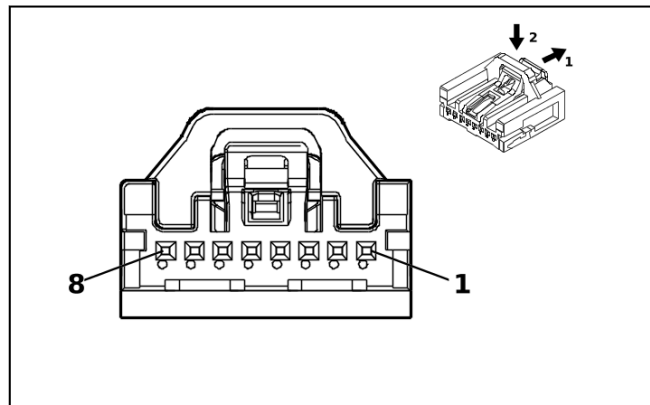
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575368	J-35616-35 (VT)	J-38125-36
II	19370818	J-35616-12 (BU)	J-38125-215A
III	84634921	J-35616-42 (RD)	J-38125-212

K160 Brake System Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 6	(1) BK	(1) 150	(1) Ground	(1) III	(1) —
(2) 2	(2) 2.5	(2) WH	(2) 2001	(2) Left Park Brake Motor Apply Control	(2) I	(2) —
(3) 3	(3) 2.5	(3) GY / BK	(3) 4369	(3) Left Park Brake Motor Low Reference	(3) I	(3) —
(4) 4	(4) 0.5	(4) GY / WH	(4) 7064	(4) Left Front Wheel Speed Sensor Control	(4) II	(4) —
(5) 5	(5) 0.5	(5) GY	(5) 830	(5) Left Front Wheel Speed Sensor Signal	(5) II	(5) —
6 - 8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0.5	(9) VT / WH	(9) 239	(9) Run/Crank Ignition 1 Voltage	(9) II	(9) —
(10) 10	(10) 0.5	(10) GY / BN	(10) 7065	(10) Right Front Wheel Speed Sensor Control	(10) II	(10) —
(11) 11	(11) 0.5	(11) YE	(11) 872	(11) Right Front Wheel Speed Sensor Signal	(11) II	(11) —
(12) 12	(12) 2.5	(12) GN / VT	(12) 1988	(12) Right Park Brake Motor Apply Control	(12) I	(12) —
(13) 13	(13) 2.5	(13) GY	(13) 4368	(13) Right Park Brake Motor Low Reference	(13) I	(13) —
(14) 14	(14) 6	(14) RD / WH	(14) 1642	(14) Battery Positive Voltage	(14) III	(14) —
(15) 15	(15) 0.5	(15) GY / BK	(15) 7127	(15) Left Rear Wheel Speed Sensor Control	(15) II	(15) —
(16) 16	(16) 0.5	(16) BU	(16) 884	(16) Left Rear Wheel Speed Sensor Signal	(16) II	(16) —
(17) 17	(17) 0.3 5	(17) BU / YE	(17) 4979	(17) AUTOSAR CAN Bus [+] 2 Serial Data	(17) II	(17) —
(18) 18	(18) 0.5	(18) BU / YE	(18) 4979	(18) AUTOSAR CAN Bus [+] 2 Serial Data	(18) II	(18) —
(19) 19	(19) 0.3 5	(19) GN / GY	(19) 817	(19) Vehicle Speed Signal	(19) II	(19) —
20 - 22	—	—	—	Not Occupied	—	—
(23) 23	(23) 0.5	(23) GN / YE	(23) 2731	(23) Brake System Control Module LIN Bus 1	(23) II	(23) —
24	—	—	—	Not Occupied	—	—
(25) 25	(25) 0.5	(25) WH	(25) 4986	(25) AUTOSAR CAN Bus [-] 1 Serial Data	(25) II	(25) —
(26) 26	(26) 0.5	(26) WH	(26) 4986	(26) AUTOSAR CAN Bus [-] 1 Serial Data	(26) II	(26) —
27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.5	(28) GY / YE	(28) 7128	(28) Right Rear Wheel Speed Sensor Control	(28) II	(28) —
(29) 29	(29) 0.5	(29) VT	(29) 882	(29) Right Rear Wheel Speed Sensor Signal	(29) II	(29) —
(30) 30	(30) 6	(30) BK	(30) 250	(30) Ground	(30) III	(30) —
31 - 32	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(33) 33	(33) 0.3 5	(33) WH	(33) 4978	(33) AUTOSAR CAN Bus [-] 2 Serial Data	(33) II	(33) —
(34) 34	(34) 0.5	(34) WH	(34) 4978	(34) AUTOSAR CAN Bus [-] 2 Serial Data	(34) II	(34) —
(35) 35	(35) 0.5	(35) GN / BU	(35) 2733	(35) Brake System Control Module LIN Bus 2	(35) II	(35) —
(36) 36	(36) 0.5	(36) WH / BK	(36) 2223	(36) Trailer Brake Apply Signal	(36) II	(36) —
(37) 37	(37) 0.5	(37) YE / BK	(37) 2224	(37) Trailer Brake Enable Signal	(37) II	(37) —
(38) 38	(38) 0.5	(38) GN / GY	(38) 333	(38) Brake Fluid Level Signal	(38) II	(38) —
(39) 39	(39) 0.5	(39) BN / BU	(39) 1602	(39) Front Brake Pad Wear Sensor Signal	(39) II	(39) —
40	—	—	—	Not Occupied	—	—
(41) 41	(41) 0.5	(41) BU	(41) 4987	(41) AUTOSAR CAN Bus [+] 1 Serial Data	(41) II	(41) —
(42) 42	(42) 0.5	(42) BU	(42) 4987	(42) AUTOSAR CAN Bus [+] 1 Serial Data	(42) II	(42) —
43	—	—	—	Not Occupied	—	—
(44) 44	(44) 0.5	(44) GN / YE	(44) 1616	(44) Rear Brake Pad Wear Sensor Signal	(44) II	(44) —
45	—	—	—	Not Occupied	—	—
(46) 46	(46) 6	(46) RD / WH	(46) 1040	(46) Battery Positive Voltage	(46) III	(46) —

K179 Automated Driving Mapping Module X1 (UKL)



5200269

Connector Part Information

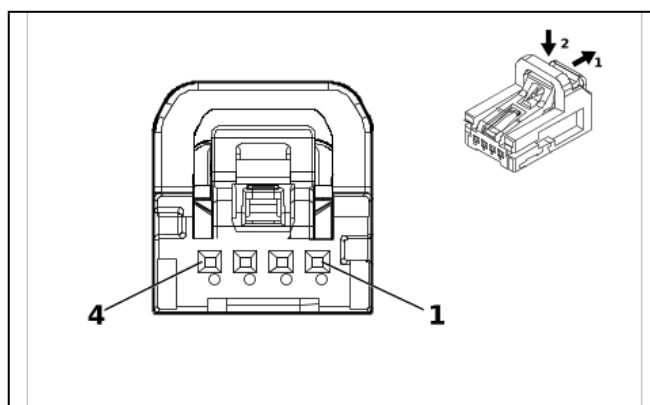
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35068228
- Service Connector: 84769201
- Description: 8-Way F Mini 50 Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

K179 Automated Driving Mapping Module X1 (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) RD / WH	(1) 1340	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) BU / GY	(2) 4105	(2) AUTOSAR CAN Bus [+] 8 Serial Data	(2) I	(2) —
(3) 3	(3) 0.35	(3) WH / GY	(3) 4104	(3) AUTOSAR CAN Bus [-] 8 Serial Data	(3) I	(3) —
(4) 4	(4) 0.35	(4) BU / GY	(4) 4105	(4) AUTOSAR CAN Bus [+] 8 Serial Data	(4) I	(4) —
(5) 5	(5) 0.35	(5) WH / GY	(5) 4104	(5) AUTOSAR CAN Bus [-] 8 Serial Data	(5) I	(5) —
6 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.35	(8) BK / WH	(8) 851	(8) Signal Ground	(8) I	(8) —

K179 Automated Driving Mapping Module X2 (UKL)

5921812

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35068221
- Service Connector: 86825465
- Description: 4-Way F Mini 50 Series(GN)

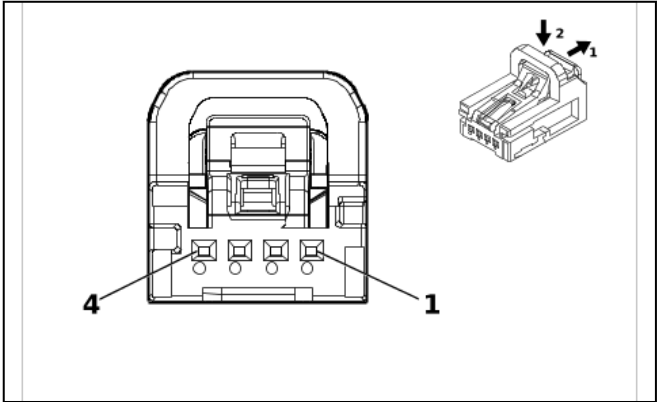
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Service by Cable	EL-35616-58 (BK)	EL-38125-58

K179 Automated Driving Mapping Module X2 (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.35	(2) BU	(2) 7208	(2) Ethernet Bus 3 [-]	(2) I	(2) —
(3) 3	(3) 0.35	(3) GN	(3) 7209	(3) Ethernet Bus 3 [+]	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

K179 Automated Driving Mapping Module X3 (UKL)



5921811

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35068220
- Service Connector: 86825464
- Description: 4-Way F Mini 50 Series(BN)

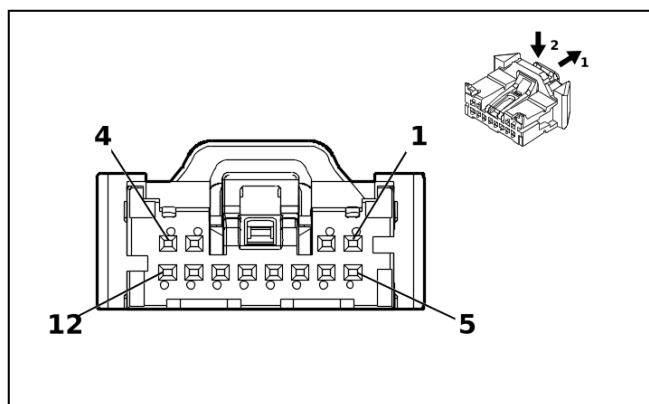
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Service by Cable	EL-35616-58 (BK)	EL-38125-58

K179 Automated Driving Mapping Module X3 (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.35	(2) BU	(2) 7224	(2) Ethernet Bus 11 [-]	(2) I	(2) —
(3) 3	(3) 0.35	(3) WH	(3) 7225	(3) Ethernet Bus 11 [+]	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

K180 Driver Monitoring System Module X1 (UKL)



5360826

Connector Part Information

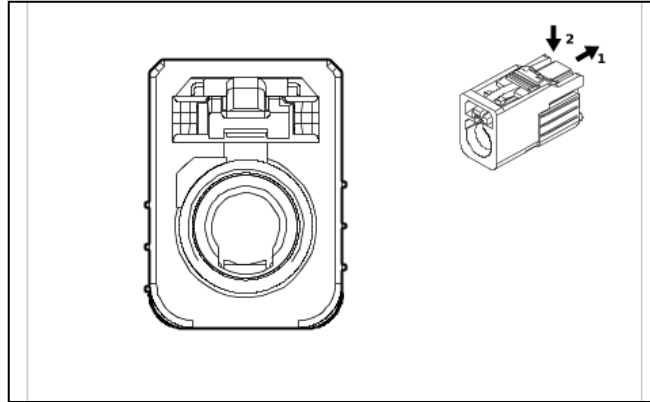
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35068239
- Service Connector: 13529935
- Description: 12-Way F 050 CTS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84944580	EL-35616-58 (BK)	EL-38125-58

K180 Driver Monitoring System Module X1 (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) RD / YE	(1) 3040	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) BK / WH	(2) 851	(2) Signal Ground	(2) I	(2) —
(3) 3	(3) 0.35	(3) BU / YE	(3) 4979	(3) AUTOSAR CAN Bus [+] 2 Serial Data	(3) I	(3) —
(4) 4	(4) 0.35	(4) WH	(4) 4978	(4) AUTOSAR CAN Bus [-] 2 Serial Data	(4) I	(4) —
5 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.35	(7) BU / BN	(7) 7744	(7) Driver Illumination Lamp Ground	(7) I	(7) —
(8) 8	(8) 0.35	(8) YE / BU	(8) 2245	(8) Driver Illumination Lamp 2 Control	(8) I	(8) —
(9) 9	(9) 0.35	(9) WH / VT	(9) 2246	(9) Driver Illumination Lamp 1 Control	(9) I	(9) —
10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.35	(11) BU / GN	(11) 4979	(11) AUTOSAR CAN Bus [+] 2 Serial Data	(11) I	(11) —
(12) 12	(12) 0.35	(12) WH / BN	(12) 4978	(12) AUTOSAR CAN Bus [-] 2 Serial Data	(12) I	(12) —

K180 Driver Monitoring System Module X2 (UKL)

5519144

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33340313
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(GN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K180 Driver Monitoring System Module X2 (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Driver Monitoring System Camera Coaxial Signal	I	—

K180S Driver Monitoring System Module - Steering Wheel X1 (UKL)**Connector Part Information**

- Harness Type: Steering Wheel
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K180S Driver Monitoring System Module - Steering Wheel X1 (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) YE / GY	(1) 5883	(1) Steering Wheel Heating Switch Signal	(1) I	(1) —
(2) 2	(2) —	(2) BN / WH	(2) 5884	(2) Steering Wheel Heating Switch LED Control	(2) I	(2) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(3) 3	(3) —	(3) RD / GN	(3) 10040	(3) Battery Positive Voltage	(3) I	(3) —
(4) 4	(4) —	(4) BK	(4) 6050	(4) Steering Wheel Ground	(4) I	(4) —
(5) 5	(5) —	(5) BK / WH	(5) 6051	(5) Steering Wheel Ground	(5) I	(5) —
(6) 6	(6) —	(6) GN / BK	(6) 2858	(6) Body Control Module LIN Bus 12	(6) I	(6) —

K180S Driver Monitoring System Module - Steering Wheel X2 (UKL)

Connector Part Information

- Harness Type: Steering Wheel
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K180S Driver Monitoring System Module - Steering Wheel X2 (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) WH / YE	(1) 5888	(1) Steering Wheel Heating High Control	(1) I	(1) —
(2) 2	(2) —	(2) GY / YE	(2) 5887	(2) Steering Wheel Heating Low Control	(2) I	(2) —
(3) 3	(3) —	(3) VT / BU	(3) 5886	(3) Steering Wheel Heating Temperature Sensor Signal	(3) I	(3) —
(4) 4	(4) —	(4) YE / RD	(4) 5885	(4) Steering Wheel Heating Voltage Reference	(4) I	(4) —

K180S Driver Monitoring System Module - Steering Wheel X5 (UKL)

Connector Part Information

- Harness Type: Steering Wheel
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K180S Driver Monitoring System Module - Steering Wheel X5 (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) VT / YE	(1) 7747	(1) Steering Wheel Lightbar Green Control	(1) I	(1) —
(2) 2	(2) —	(2) GY / BU	(2) 7746	(2) Steering Wheel Lightbar Red Control	(2) I	(2) —
(3) 3	(3) —	(3) BN / VT	(3) 7745	(3) Steering Wheel Lightbar Control	(3) I	(3) —
(4) 4	(4) —	(4) BU / GN	(4) 7748	(4) Steering Wheel Lightbar Blue Control	(4) I	(4) —

K180S Driver Monitoring System Module - Steering Wheel X6 (UKL)**Connector Part Information**

- Harness Type: Steering Wheel
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K180S Driver Monitoring System Module - Steering Wheel X6 (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) RD / BN	(1) 10040	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) —	(2) GN / GY	(2) 4627	(2) Image Processing Module LIN Bus 1	(2) I	(2) —
(3) 3	(3) —	(3) BK / WH	(3) 6051	(3) Steering Wheel Ground	(3) I	(3) —

K180S Driver Monitoring System Module - Steering Wheel X10 (UKL)**Connector Part Information**

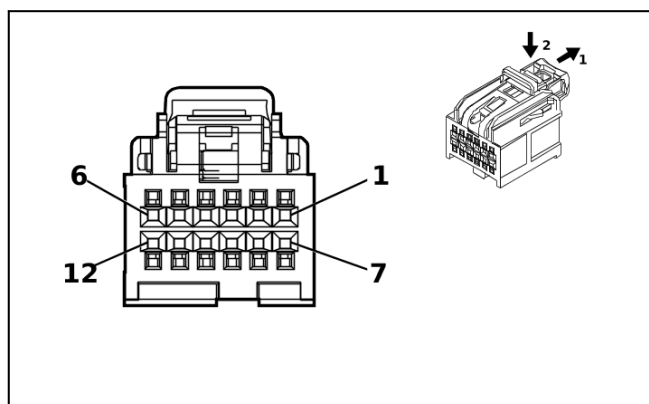
- Harness Type: Steering Wheel
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

K180S Driver Monitoring System Module - Steering Wheel X10 (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) BU / RD	(1) —	(1) Ground	(1) I	(1) —
(2) 2	(2) —	(2) GN / OG	(2) —	(2) Ground	(2) I	(2) —

K182 Parking Assist Control Module X1 (UD5)

4975223

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35016616
- Service Connector: 13519750
- Description: 12-Way F 0.64 OCS Series(BK)

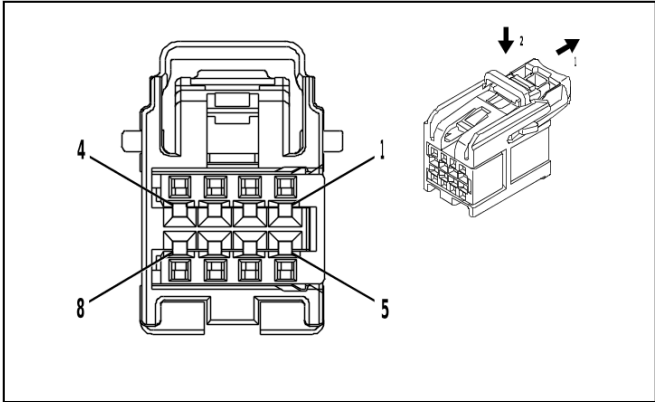
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19354230	J-35616-64B (L-BU)	J-38125-215A

K182 Parking Assist Control Module X1 (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / WH	(1) 4740	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH	(2) 4986	(2) AUTOSAR CAN Bus [-] 1 Serial Data	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU	(3) 4987	(3) AUTOSAR CAN Bus [+] 1 Serial Data	(3) I	(3) —
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.5 (6) 0.75	(6) BK / WH (6) BK / WH	(6) 1551 (6) 1551	(6) Signal Ground (6) Signal Ground	(6) I (6) I	(6) EXTENDED CAB/ CREW CAB (6) REGULAR CAB
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.5	(8) WH	(8) 4986	(8) AUTOSAR CAN Bus [-] 1 Serial Data	(8) I	(8) —
(9) 9	(9) 0.5	(9) BU	(9) 4987	(9) AUTOSAR CAN Bus [+] 1 Serial Data	(9) I	(9) —
10 - 12	—	—	—	Not Occupied	—	—

K182 Parking Assist Control Module X2 (UD5)



4232228

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 15526973
- Service Connector: 19353873
- Description: 8-Way F 0.64 OCS Series(GY)

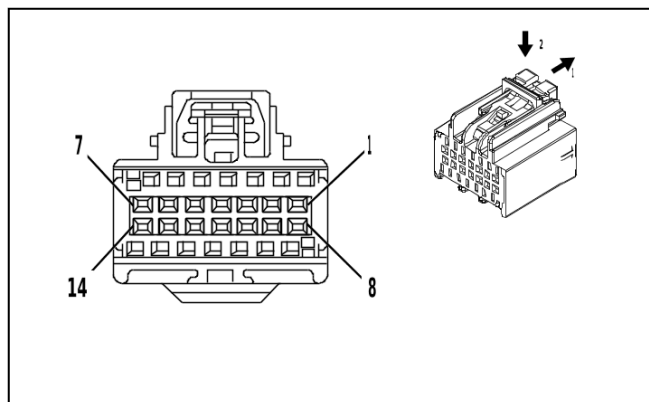
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

K182 Parking Assist Control Module X2 (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.5	(2) YE / WH	(2) 2377	(2) Right Rear Middle Parking Assist Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE	(3) 2375	(3) Left Rear Outer Parking Assist Sensor Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BN / WH	(4) 2374	(4) Object Sensor Voltage Reference	(4) I	(4) —
(5) 5	(5) 0.5	(5) YE / VT	(5) 2378	(5) Right Rear Outer Parking Assist Sensor Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) YE / BU	(6) 2376	(6) Left Rear Middle Parking Assist Sensor Signal	(6) I	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.5	(8) BK / GY	(8) 2379	(8) Object Sensor Low Reference	(8) I	(8) —

K182 Parking Assist Control Module X3 (UD5)



4547098

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 7289-2897-90
- Service Connector: 19354933
- Description: 14-Way F 0.64 Kaizen Series(BU)

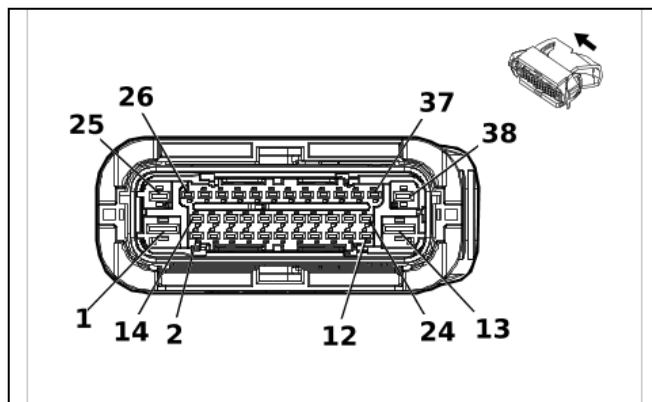
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19303553	J-35616-64B (L-BU)	J-38125-215A

K182 Parking Assist Control Module X3 (UD5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) YE / GY	(5) 5216	(5) Left Front Middle Parking Assist Sensor	(5) I	(5) —
(6) 6	(6) 0.5	(6) WH / GY	(6) 5217	(6) Right Front Outer Parking Assist Sensor	(6) I	(6) —
(7) 7	(7) 0.5	(7) BN	(7) 6581	(7) Front Parking Assist Display Control	(7) I	(7) —
8 - 10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.5	(11) VT / WH	(11) 5215	(11) Left Front Outer Parking Assist Sensor	(11) I	(11) —
(12) 12	(12) 0.5	(12) VT / GY	(12) 5218	(12) Right Front Middle Parking Assist Sensor	(12) I	(12) —
13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.5	(14) BK / BU	(14) 5214	(14) Front Parking Assist Sensor Low Reference	(14) I	(14) —

K194 Rear Gate Module



3240112

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 35503407
- Service Connector: Service by Harness - See Part Catalog
- Description: 38-Way F 1.5 CTS, 2.8 MCP, 4.8 MCP Series, Sealed(BK with BU Inner Connector)

Terminal Part Information

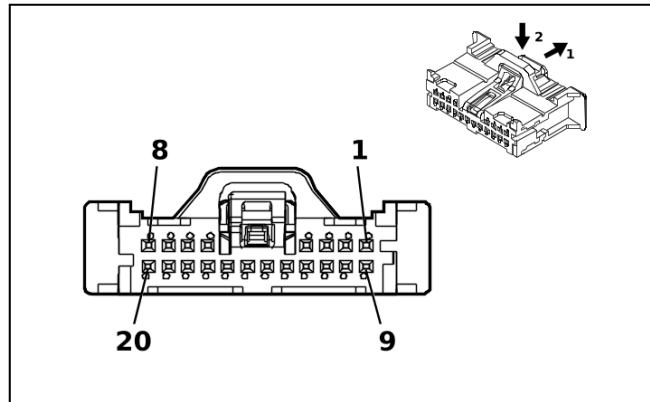
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-35 (VT)	No Tool Required
III	Not required	J-35616-40 (BU)	No Tool Required

K194 Rear Gate Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BK	(1) 1850	(1) Ground	(1) III	(1) —
(2) 2	(2) 0.5	(2) WH	(2) 4100	(2) AUTOSAR CAN Bus [-] 4 Serial Data	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH	(3) 4100	(3) AUTOSAR CAN Bus [-] 4 Serial Data	(3) I	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) YE / BK	(5) 8085	(5) Rear Closure Latch Primary Status	(5) I	(5) —
(6) 6	(6) 0.5	(6) BN / GY	(6) 10281	(6) Rear Closure Latch Secondary Status Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) WH / GN	(7) 8084	(7) Rear Closure Latch Neutral Status	(7) I	(7) —
(8) 8	(8) 0.5	(8) GY / VT	(8) 4678	(8) Rear Closure Latch Unlatch Status	(8) I	(8) —
9 - 12	—	—	—	Not Occupied	—	—
(13) 13	(13) 2.5	(13) RD / VT	(13) 4442	(13) Primary Fused Battery Positive Voltage	(13) III	(13) —
(14) 14	(14) 0.5	(14) BU / VT	(14) 4101	(14) AUTOSAR CAN Bus [+] 4 Serial Data	(14) I	(14) —
(15) 15	(15) 0.5	(15) BU / VT	(15) 4101	(15) AUTOSAR CAN Bus [+] 4 Serial Data	(15) I	(15) —
(16) 16	(16) 0.5	(16) BN	(16) 7736	(16) Rear Closure Latch 2 Unlatch Status Signal	(16) I	(16) —
17	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(18) 18	(18) 0.5	(18) BN / RD	(18) 4683	(18) Rear Closure Position Sensor Voltage Reference	(18) I	(18) —
(19) 19	(19) 0.5	(19) BK / GN	(19) 4687	(19) Rear Closure Position Sensor Low Reference	(19) I	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.5	(21) BN / YE	(21) 4686	(21) Rear Closure Position Sensor Signal 2	(21) I	(21) —
(22) 22	(22) 0.5	(22) BU / WH	(22) 4685	(22) Rear Closure Position Sensor Signal 1	(22) I	(22) —
(23) 23	(23) 0.5	(23) GN / BU	(23) 1028 ₃	(23) Rear Closure Latch 2 Primary Status Signal	(23) I	(23) —
(24) 24	(24) 0.5	(24) VT / WH	(24) 1028 ₄	(24) Rear Closure Latch 2 Secondary Status Signal	(24) I	(24) —
(25) 25	(25) 1	(25) BN / WH	(25) 4690	(25) Rear Closure Open/Close Motor Close Control	(25) II	(25) —
(26) 26	(26) 0.5	(26) BU / BN	(26) 1028 ₂	(26) Rear Closure Latch 2 Neutral Status Signal	(26) I	(26) —
(27) 27	(27) 0.5	(27) GY / BK	(27) 1575	(27) Rear Closure Sensor Low Reference 2	(27) I	(27) —
(28) 28	(28) 0.5	(28) BK / VT	(28) 4656	(28) Rear Closure Object Sensor Low Reference	(28) I	(28) —
29	—	—	—	Not Occupied	—	—
(30) 30	(30) 1	(30) BU	(30) 1509	(30) Rear Closure Cinch Latch Motor 2 Release Control	(30) I	(30) —
(31) 31	(31) 1	(31) GN	(31) 1499	(31) Rear Closure Cinch Latch Motor 2 Cinch Control	(31) I	(31) —
32	—	—	—	Not Occupied	—	—
(33) 33	(33) 1	(33) BU / GY	(33) 4682	(33) Rear Closure Cinch Latch Motor Release Control	(33) I	(33) —
(34) 34	(34) 1	(34) BN	(34) 4681	(34) Rear Closure Cinch Latch Motor Cinch Control	(34) I	(34) —
(35) 35	(35) 0.5	(35) GN	(35) 1577	(35) Rear Closure Clutch Control	(35) I	(35) —
(36) 36	(36) 0.5	(36) BU / BK	(36) 1590	(36) Rear Closure Clutch Low Return	(36) I	(36) —
37	—	—	—	Not Occupied	—	—
(38) 38	(38) 1	(38) WH	(38) 4689	(38) Rear Closure Open/Close Motor Open Control	(38) II	(38) —

K212 Gear Shift Control Module



5200955

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 35068196
- Service Connector: Service by Harness - See Part Catalog
- Description: 20-Way F Mini 50 Series(BK)

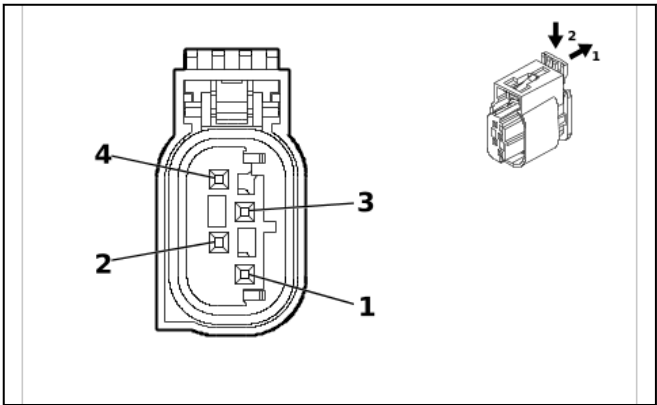
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

K212 Gear Shift Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BU / BK	(1) 4977	(1) AUTOSAR CAN Bus [+] 3 Serial Data	(1) I	(1) —
(2) 2	(2) 0.35	(2) BU / BK	(2) 4977	(2) AUTOSAR CAN Bus [+] 3 Serial Data	(2) I	(2) —
(3) 3	(3) 0.35	(3) YE	(3) 4976	(3) AUTOSAR CAN Bus [-] 3 Serial Data	(3) I	(3) —
(4) 4	(4) 0.35	(4) YE	(4) 4976	(4) AUTOSAR CAN Bus [-] 3 Serial Data	(4) I	(4) —
(5) 5	(5) 0.35	(5) WH	(5) 4055	(5) Private Serial Data Powertrain CAN Bus [+] Serial Data	(5) I	(5) —
(6) 6	(6) 0.35	(6) WH	(6) 4055	(6) Private Serial Data Powertrain CAN Bus [+] Serial Data	(6) I	(6) —
(7) 7	(7) 0.35	(7) BU / GY	(7) 4054	(7) Private Serial Data Powertrain CAN Bus [-] Serial Data	(7) I	(7) —
(8) 8	(8) 0.35	(8) BU / GY	(8) 4054	(8) Private Serial Data Powertrain CAN Bus [-] Serial Data	(8) I	(8) —
(9) 9	(9) 0.35	(9) RD / WH	(9) 5440	(9) Battery Positive Voltage	(9) I	(9) —
10 - 15	—	—	—	Not Occupied	—	—
(16) 16	(16) 0.35	(16) VT / GN	(16) 4320	(16) Powertrain Sensor Bus Enable	(16) I	(16) —
(17) 17	(17) 0.35	(17) VT / WH	(17) 239	(17) Run/Crank Ignition 1 Voltage	(17) I	(17) —
18 - 19	—	—	—	Not Occupied	—	—
(20) 20	(20) 0.35	(20) BK	(20) 1350	(20) Ground	(20) I	(20) —

K214 Trailer Tire Pressure Indicator Module (UET)



5215490

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 13655424
- Service Connector: 86825461
- Description: 4-Way F 0.64 MTS Series, Sealed(BK)

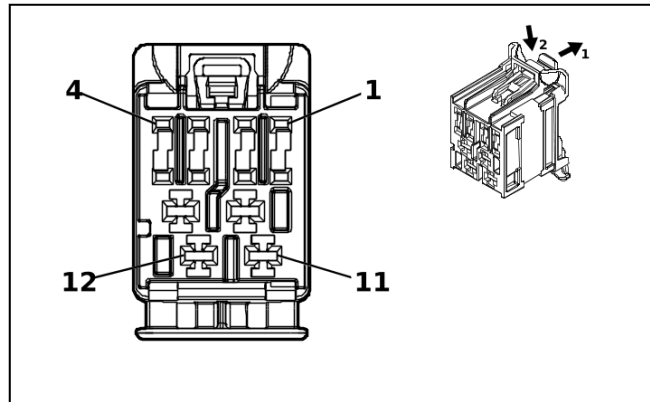
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

K214 Trailer Tire Pressure Indicator Module (UET)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / GN	(1) 6940	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / WH	(2) 1951	(2) Signal Ground	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / YE	(3) 2862	(3) Body Control Module LIN Bus 16	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

K219 Lighting Control Module X1



5203784

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 160026-0003
- Service Connector: 13509990
- Description: 12-Way F 1.2, 2.8 stAK50h Series(L-PU)

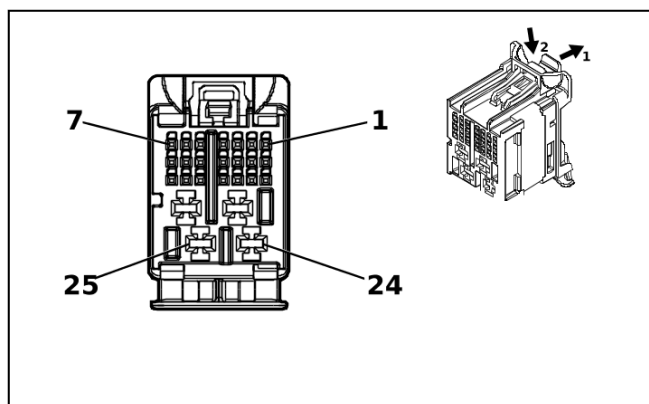
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84729890	J-35616-12 (BU)	J-38125-215A
II	87814662	J-35616-35 (VT)	J-38125-557

K219 Lighting Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / YE	(1) 1254	(1) Left Front Park Lamp Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) GN / WH	(3) 24	(3) Backup Lamp Control	(3) I	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) BU / WH	(5) 1314	(5) Left Front Turn Signal Lamp Control	(5) I	(5) —
(6) 6	(6) 0.5	(6) BN / GY	(6) 5061	(6) Left Front Fog Lamp Control	(6) I	(6) —
(7) 7	(7) 0.5	(7) GN / YE	(7) 6846	(7) Rear License Plate Lamp Control	(7) I	(7) —
(8) 8	(8) 0.35	(8) GY / BU	(8) 7538	(8) Left Front DRL Control	(8) I	(8) —
(9) 9	(9) 0.5	(9) RD / VT	(9) 7140	(9) Battery Positive Voltage	(9) II	(9) —
(10) 10	(10) 0.7 5	(10) YE	(10) 712	(10) Left Headlamp Low Beam Control	(10) II	(10) —
11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0.7 5	(12) WH	(12) 711	(12) Left Headlamp High Beam Control	(12) II	(12) —

K219 Lighting Control Module X2



5203807

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 160027-0012
- Service Connector: 13534966
- Description: 25-Way F 0.5 MQS, 2.8 MCP Series(GY with GY Inner Connector)

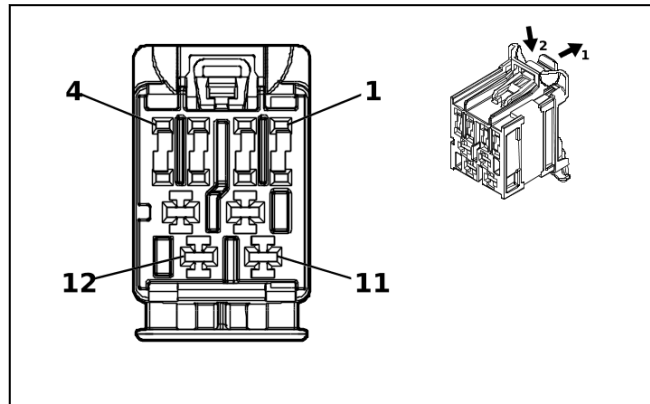
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	87814662	J-35616-35 (VT)	J-38125-557

K219 Lighting Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) BN / GY	(3) 2268	(3) Windshield Washer Relay Control	(3) I	(3) —
(4) 4	(4) 0.35	(4) BU / BN	(4) 38	(4) Backup Lamp Relay Control	(4) I	(4) —
5 - 9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.3 5	(10) BN / GN	(10) 196	(10) Windshield Wiper Motor Park Switch Signal	(10) I	(10) —
(11) 11	(11) 0.3 5	(11) VT / BK	(11) 6568	(11) Front Turn Signal Lamp Feedback Signal	(11) I	(11) —
(12) 12	(12) 0.3 5	(12) GY	(12) 91	(12) Windshield Wiper Motor Relay Coil Control	(12) I	(12) —
13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.3 5	(14) VT	(14) 185	(14) Low Washer Fluid Indicator Control	(14) I	(14) —
15 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.3 5	(19) WH / BN	(19) 7055	(19) Auxiliary Park Lamp Relay Control	(19) I	(19) —
(20) 20	(20) 0.3 5	(20) WH / YE	(20) 7545	(20) Right Front Turn Signal Lamp Feedback Signal	(20) I	(20) —
(21) 21	(21) 0.3 5	(21) WH / VT	(21) 860	(21) Windshield Wiper Switch High Signal	(21) I	(21) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(22) 22	(22) 0.5	(22) RD / GN	(22) 7740	(22) Battery Positive Voltage	(22) II	(22) —
(23) 23	(23) 0.5	(23) RD / BU	(23) 840	(23) Battery Positive Voltage	(23) II	(23) —
24 - 25	—	—	—	Not Occupied	—	—

K219 Lighting Control Module X3

5203797

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 160026-0002
- Service Connector: 13509989
- Description: 12-Way F 1.2, 2.8 stAK50h Series(GN)

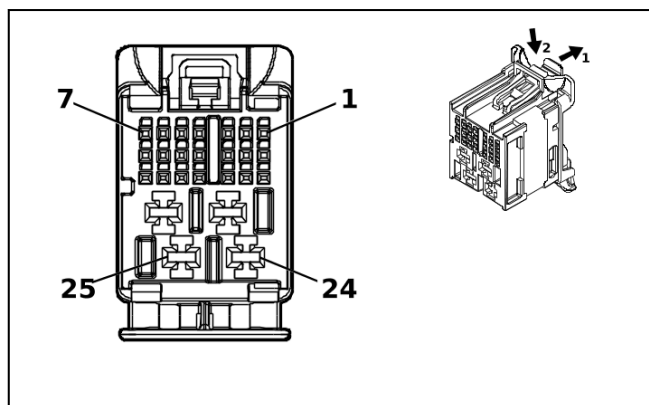
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84729890	J-35616-12 (BU)	J-38125-215A
II	87814662	J-35616-35 (VT)	J-38125-557

K219 Lighting Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BU / BN	(1) 7539	(1) Right Front DRL Control	(1) I	(1) —
2 - 3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.5	(4) BU / GN	(4) 1253	(4) Right Front Park Lamp Control	(4) I	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.75	(6) BU / VT	(6) 1335	(6) Right Rear Turn Signal Lamp Control 2	(6) I	(6) —
(7) 7	(7) 0.35	(7) BU / YE	(7) 7761	(7) Backup Illumination Lamp Control	(7) I	(7) —
8	—	—	—	Not Occupied	—	—
(9) 9	(9) 1.5	(9) RD / BU	(9) 540	(9) Battery Positive Voltage	(9) II	(9) —
(10) 10	(10) 1.5	(10) RD / BN	(10) 1440	(10) Battery Positive Voltage	(10) II	(10) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(11) 11	(11) 0.7 5	(11) WH	(11) 311	(11) Right Headlamp High Beam Control	(11) II	(11) —
(12) 12	(12) 1	(12) YE	(12) 312	(12) Right Headlamp Low Beam Control	(12) II	(12) —

K219 Lighting Control Module X4

5203416

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 160027-0015
- Service Connector: 13534969
- Description: 25-Way F 0.5 MQS, 2.8 MCP Series(PU with GY Inner Connector)

Terminal Part Information

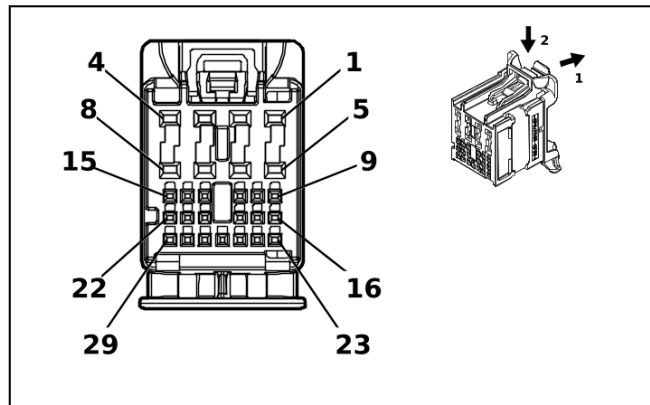
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	87814662	J-35616-35 (VT)	J-38125-557

K219 Lighting Control Module X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) BU / YE	(3) 4979	(3) AUTOSAR CAN Bus [+] 2 Serial Data	(3) I	(3) —
(4) 4	(4) 0.35	(4) WH	(4) 4978	(4) AUTOSAR CAN Bus [-] 2 Serial Data	(4) I	(4) —
(5) 5	(5) 0.35	(5) BU / YE	(5) 4979	(5) AUTOSAR CAN Bus [+] 2 Serial Data	(5) I	(5) —
(6) 6	(6) 0.35	(6) WH	(6) 4978	(6) AUTOSAR CAN Bus [-] 2 Serial Data	(6) I	(6) —
(7) 7	(7) 0.35	(7) WH / BU	(7) 6311	(7) Cruise/ETC/TCC Brake Signal	(7) I	(7) —
8 - 9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.3 5	(10) WH	(10) 4978	(10) AUTOSAR CAN Bus [-] 2 Serial Data	(10) I	(10) —
(11) 11	(11) 0.3 5	(11) BU / YE	(11) 4979	(11) AUTOSAR CAN Bus [+] 2 Serial Data	(11) I	(11) —
12 - 21	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(22) 22	(22) 1	(22) RD / BN	(22) 1140	(22) Battery Positive Voltage	(22) II	(22) —
(23) 23	(23) 1	(23) BK / WH	(23) 1551	(23) Signal Ground	(23) II	(23) —
(24) 24	(24) 0.5	(24) RD / GN	(24) 1540	(24) Battery Positive Voltage	(24) II	(24) —
(25) 25	(25) 1	(25) BK / WH	(25) 1451	(25) Signal Ground	(25) II	(25) —

K219 Lighting Control Module X5



5203373

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 160029-0013
- Service Connector: 13534975
- Description: 29-Way F 0.5 NANO, 1.2 MCON, stAK50h Series(BU with GY Inner Connector)

Terminal Part Information

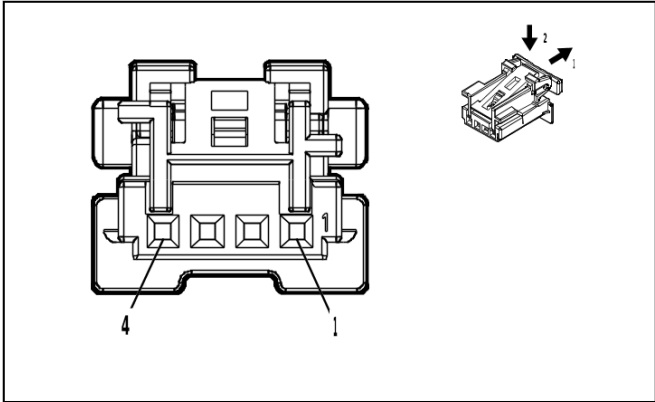
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

K219 Lighting Control Module X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / GN	(1) 5966	(1) Approach Lamp Control	(1) II	(1) —
(2) 2	(2) 0.75	(2) BN / GY	(2) 6995	(2) Right Rear Park Lamp Control	(2) II	(2) —
(3) 3	(3) 0.5	(3) GY / BU	(3) 7762	(3) Cargo Lamp Control	(3) II	(3) —
(4) 4	(4) 0.5	(4) WH / VT	(4) 1430	(4) Exterior Courtesy Lamp Control	(4) II	(4) —
(5) 5	(5) 0.5	(5) YE / GN	(5) 2024	(5) Animation Lighting Control	(5) II	(5) —
(6) 6	(6) 0.75	(6) BN / BU	(6) 6993	(6) Left Rear Park Lamp Control	(6) II	(6) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(7) 7	(7) 0.5	(7) GN / VT	(7) 1315	(7) Right Front Turn Signal Lamp Control	(7) II	(7) —
(8) 8	(8) 0.75	(8) BU / WH	(8) 1334	(8) Left Rear Turn Signal Lamp Control 2	(8) II	(8) —
(9) 9	(9) 0.35	(9) GN / GY	(9) 2115	(9) Right Turn Signal Lamp Control 2	(9) I	(9) —
(10) 10	(10) 0.3 5	(10) WH / GY	(10) 2114	(10) Left Turn Signal Lamp Control 2	(10) I	(10) —
(11) 11	(11) 0.3 5	(11) GY	(11) 1715	(11) Windshield Wiper Switch High Signal	(11) I	(11) —
(13) 13	(13) 0.3 5	(13) GN / BN	(13) 319	(13) Right Rear Trailer Stop/Turn Lamp Control	(13) I	(13) —
14	—	—	—	Not Occupied	—	—
(15) 15	(15) 0.3 5	(15) WH / GY	(15) 2935	(15) Task Lamp Switch Signal	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) YE / WH	(16) 2934	(16) Task Lamp Control Right	(16) I	(16) —
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.3 5	(18) VT / WH	(18) 239	(18) Run/Crank Ignition 1 Voltage	(18) I	(18) —
20 - 22	—	—	—	Not Occupied	—	—
(23) 23	(23) 0.3 5	(23) WH / VT	(23) 6567	(23) Rear Turn Signal Lamp Feedback Signal	(23) I	(23) —
(24) 24	(24) 0.3 5	(24) WH / BK	(24) 7544	(24) Right Rear Turn Signal Lamp Feedback Signal	(24) I	(24) —
(25) 25	(25) 0.3 5	(25) BN / YE	(25) 820	(25) Center High Mounted Stop Lamp Supply Voltage	(25) I	(25) —
26 - 27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.3 5	(28) YE / GY	(28) 2933	(28) Task Lamp Control Left	(28) I	(28) —
(29) 29	(29) 0.3 5	(29) YE / BU	(29) 318	(29) Left Rear Trailer Stop/Turn Lamp Control	(29) I	(29) —

M4 Air Inlet Valve Actuator



4997407

Connector Part Information

- Harness Type: Heater Wiring Harness
- OEM Connector: 2294218-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

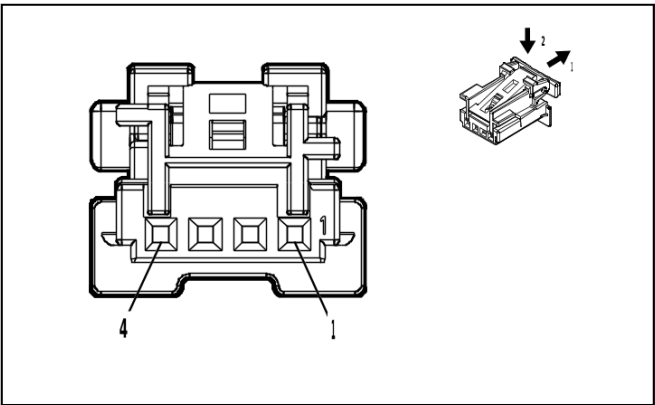
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

M4 Air Inlet Valve Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK	(1) 1050	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) BU	(2) 2852	(2) Body Control Module LIN Bus 6	(2) I	(2) —
(3) 3	(3) 0.35	(3) BK	(3) 1050	(3) Ground	(3) I	(3) —
(4) 4	(4) 0.35	(4) RD	(4) 4634	(4) HVAC Remote Enable Signal	(4) I	(4) —

M6L Temperature Valve Actuator - Left



4997407

Connector Part Information

- Harness Type: Heater Wiring Harness
- OEM Connector: 2294218-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

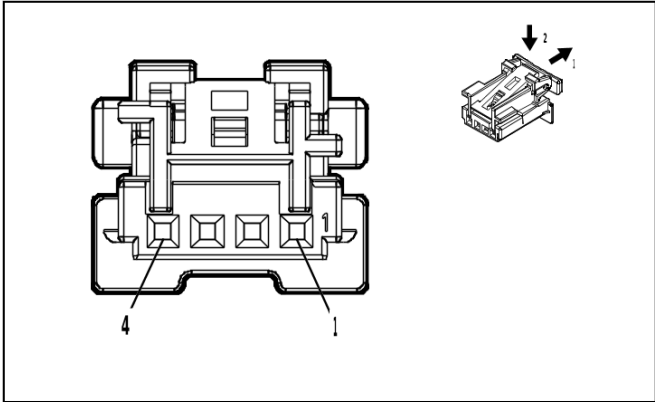
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

M6L Temperature Valve Actuator - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK	(1) 1050	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) BU	(2) 2852	(2) Body Control Module LIN Bus 6	(2) I	(2) —
(3) 3	(3) 0.35	(3) BK	(3) 1050	(3) Ground	(3) I	(3) —
(4) 4	(4) 0.35	(4) RD	(4) 4634	(4) HVAC Remote Enable Signal	(4) I	(4) —

M6R Temperature Valve Actuator - Right



4997407

Connector Part Information

- Harness Type: Heater Wiring Harness
- OEM Connector: 2294218-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

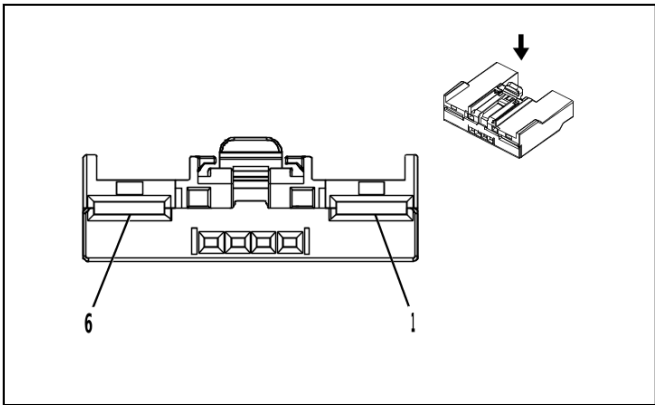
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

M6R Temperature Valve Actuator - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK	(1) 1050	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) BU	(2) 2852	(2) Body Control Module LIN Bus 6	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.35	(4) RD	(4) 4634	(4) HVAC Remote Enable Signal	(4) I	(4) —

M8 Blower Motor



2904463

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 7287-9355-30
- Service Connector: 19356432
- Description: 6-Way F 0.64 GET, 6.3 Series(BK)

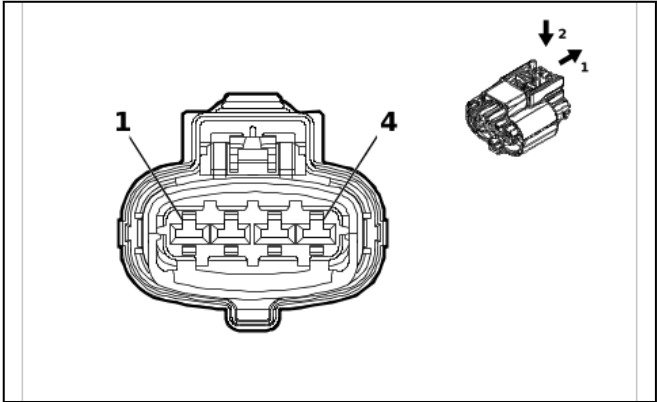
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required
II	Not required	J-35616-64B (L-BU)	No Tool Required

M8 Blower Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 4	(1) RD / GY	(1) 1740	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) BU / GY	(2) 754	(2) Blower Motor Speed Control	(2) II	(2) —
(3) 3	(3) 0.35	(3) GN / BU	(3) 761	(3) Blower Speed Feedback Signal	(3) II	(3) —
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 4	(6) BK	(6) 1050	(6) Ground	(6) I	(6) —

M10 Charge Air Cooler Coolant Pump



5869064

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35810340
- Service Connector: 19371209
- Description: 4-Way F 2.8 CTS Series, Sealed(BK)

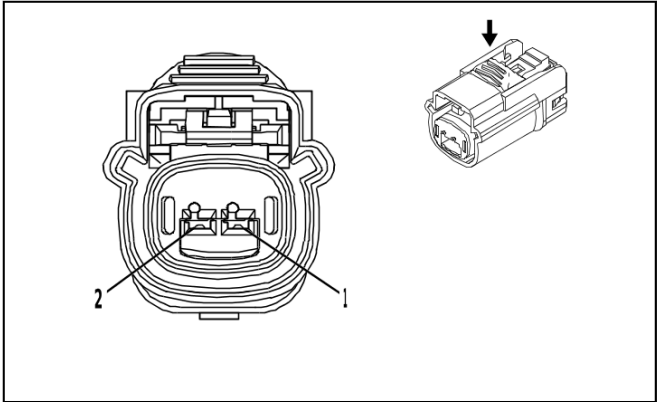
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

M10 Charge Air Cooler Coolant Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) VT / BU	(1) 5294	(1) Powertrain Main Relay Fused Supply Voltage 5	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / VT	(2) 4621	(2) Engine Control Module LIN Bus 1	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 1	(4) BK	(4) 6150	(4) Engine Odd Bank Ground	(4) I	(4) —

M14A Pickup Box Endgate Lock Actuator



4332222

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 15514573
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 OCS Series, Sealed(BK)

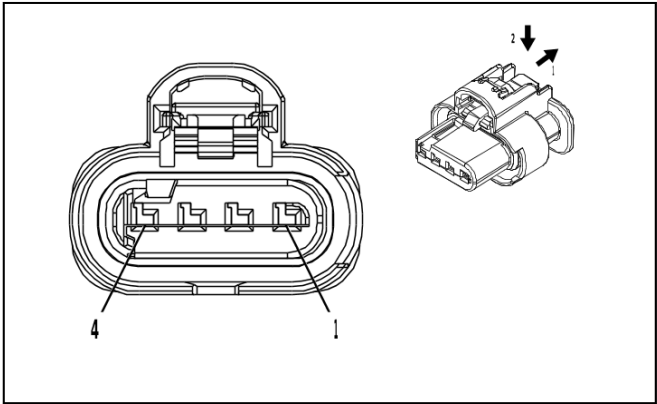
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

M14A Pickup Box Endgate Lock Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) GN	(1) 1299	(1) Major Endgate Motor Control	(1) I	(1) —
(2) 2	(2) 1	(2) YE / BK	(2) 7730	(2) Major Endgate Motor Low Reference	(2) I	(2) —

M26 Front Drive Axle Actuator (NP0 / NQH)



4210809

Connector Part Information

- Harness Type: Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness
- OEM Connector: 1-2296696-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2 MCON-CB Series, Sealed(BK)

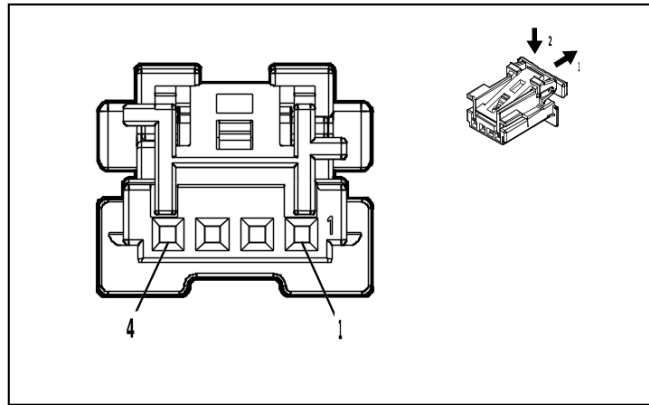
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M26 Front Drive Axle Actuator (NP0 / NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN	(1) 8016	(1) Secondary Axle Motor Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) GY / BK	(2) 1570	(2) Front Axle Actuator Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE / WH	(3) 1695	(3) 4WD Locked Range Indicator Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 450	(4) Ground	(4) I	(4) —

M37 Mode Valve Actuator



4997407

Connector Part Information

- Harness Type: Heater Wiring Harness
- OEM Connector: 2294218-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

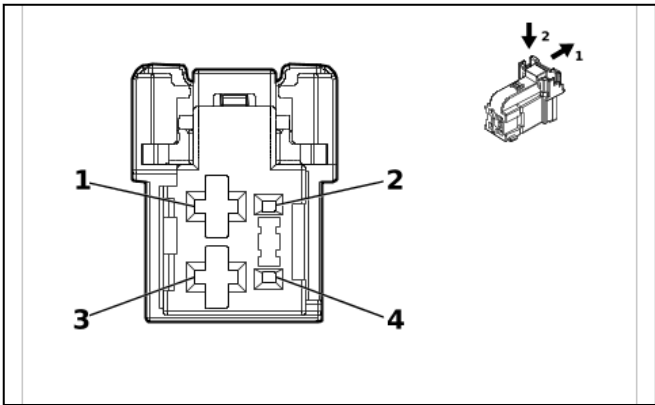
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

M37 Mode Valve Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK	(1) 1050	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) BU	(2) 2852	(2) Body Control Module LIN Bus 6	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.35	(4) RD	(4) 4634	(4) HVAC Remote Enable Signal	(4) I	(4) —

M50D Front Seat Tilt Adjuster Actuator - Driver (A2X - A45)



5410027

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 2316171-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

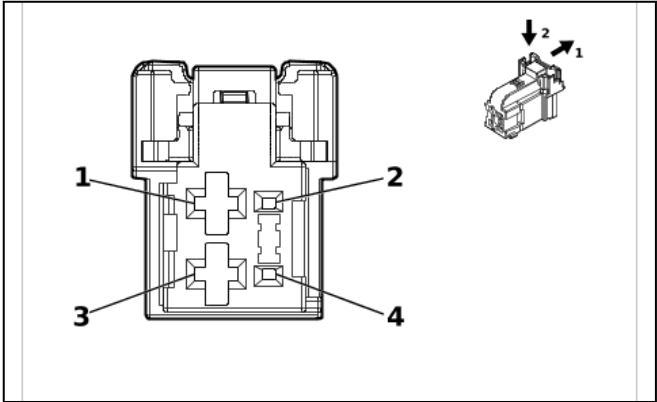
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M50D Front Seat Tilt Adjuster Actuator - Driver (A2X - A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) BU / VT	(1) 287	(1) Driver Seat Front Vertical Motor Down Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 1.5	(3) GN / BN	(3) 286	(3) Driver Seat Front Vertical Motor Up Control	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

M50P Front Seat Tilt Adjuster Actuator - Passenger



5410027

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 2316171-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

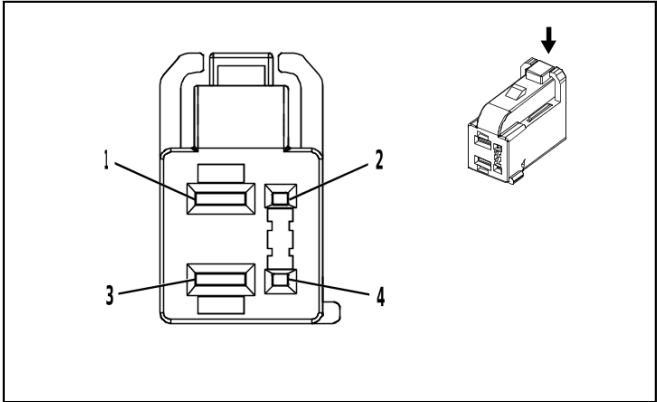
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M50P Front Seat Tilt Adjuster Actuator - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) GN / VT	(1) 297	(1) Passenger Seat Front Vertical Motor Up Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 1.5	(3) GN / BU	(3) 298	(3) Passenger Seat Front Vertical Motor Down Control	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

M51D Front Seat Adjuster Actuator - Driver



3683652

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 2272784-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

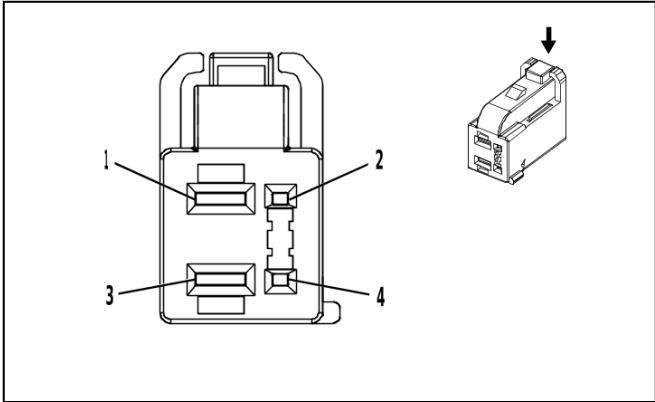
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

M51D Front Seat Adjuster Actuator - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) GY / GN	(1) 284	(1) Driver Seat Horizontal Motor Rearward Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 1.5	(3) YE / BU	(3) 285	(3) Driver Seat Horizontal Motor Forward Control	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

M51P Front Seat Adjuster Actuator - Passenger



3683652

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 2272784-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

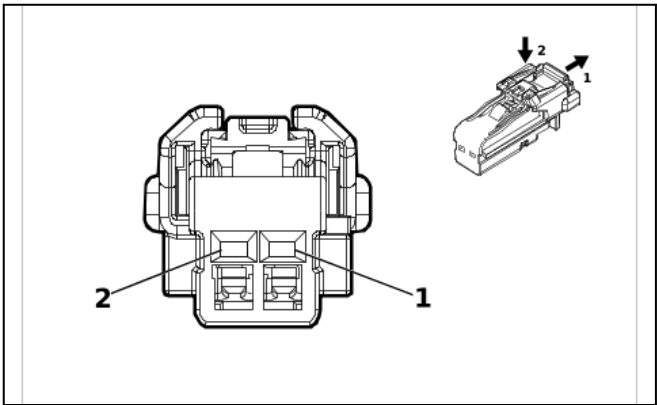
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

M51P Front Seat Adjuster Actuator - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) YE / BU	(1) 290	(1) Passenger Seat Horizontal Motor Rearward Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 1.5	(3) YE / WH	(3) 296	(3) Passenger Seat Horizontal Motor Forward Control	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

M53D Front Seat Back Lumbar Motor - Driver



4115691

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

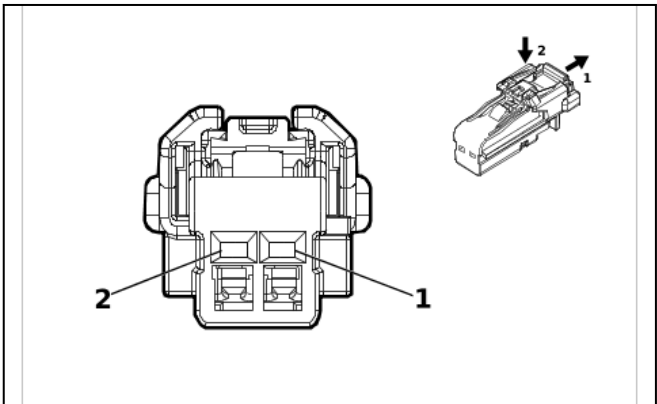
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

M53D Front Seat Back Lumbar Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU	(1) 611	(1) Driver Seat Lumbar Support Motor Forward Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) VT	(2) 610	(2) Driver Seat Lumbar Support Motor Backward Control	(2) I	(2) —

M53P Front Seat Back Lumbar Motor - Passenger



4115691

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

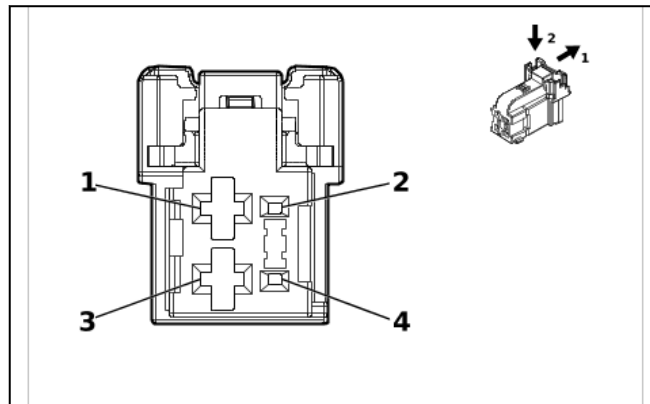
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

M53P Front Seat Back Lumbar Motor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU	(1) 211	(1) Passenger Seat Lumbar Support Motor Forward Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) VT	(2) 210	(2) Passenger Seat Lumbar Support Motor Backward Control	(2) I	(2) —

M55D Front Seat Vertical Adjuster Actuator - Driver



5410027

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 2316171-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

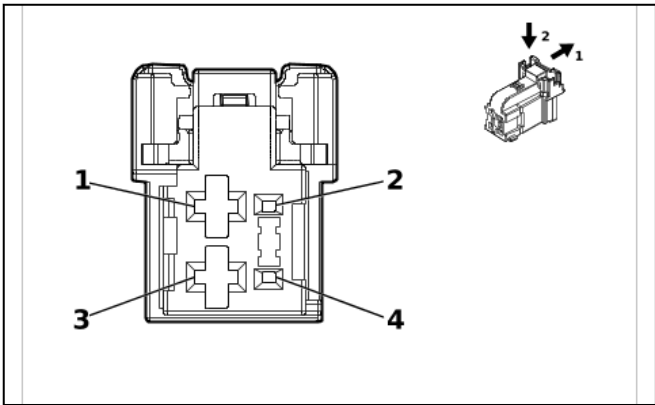
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M55D Front Seat Vertical Adjuster Actuator - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) GY / BU	(1) 283	(1) Driver Seat Rear Vertical Motor Down Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 1.5	(3) YE	(3) 282	(3) Driver Seat Rear Vertical Motor Up Control	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

M55P Front Seat Vertical Adjuster Actuator - Passenger



5410027

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 2316171-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

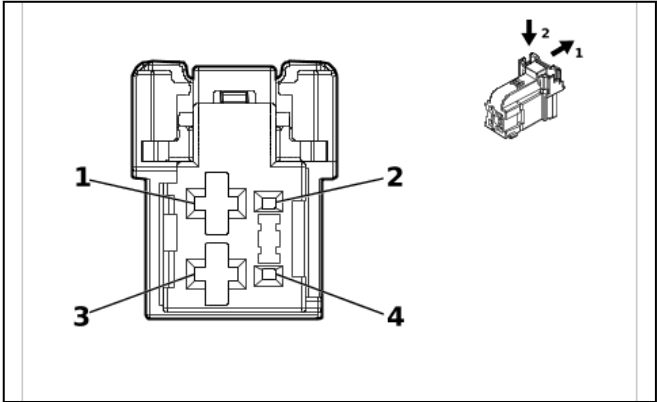
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M55P Front Seat Vertical Adjuster Actuator - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) BU / WH	(1) 289	(1) Passenger Seat Rear Vertical Motor Down Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 1.5	(3) GN / WH	(3) 288	(3) Passenger Seat Rear Vertical Motor Up Control	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

M56D Front Seat Recliner Actuator - Driver (A45)



5410027

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 2316171-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

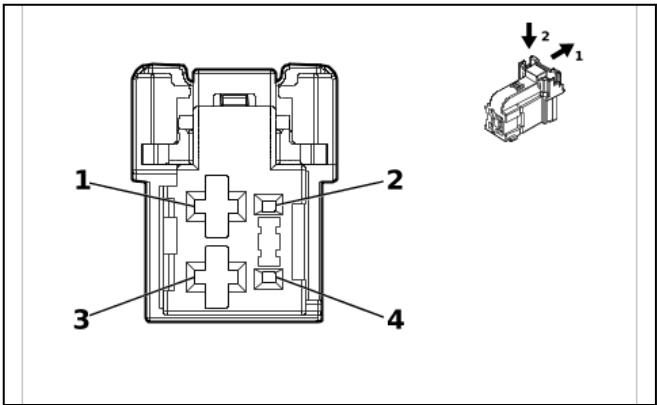
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M56D Front Seat Recliner Actuator - Driver (A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) GN / YE	(1) 276	(1) Driver Seat Recline Motor Forward Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 1.5	(3) BU / YE	(3) 277	(3) Driver Seat Recline Motor Rearward Control	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

M56P Front Seat Recliner Actuator - Passenger (AKE)



5410027

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 2316171-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

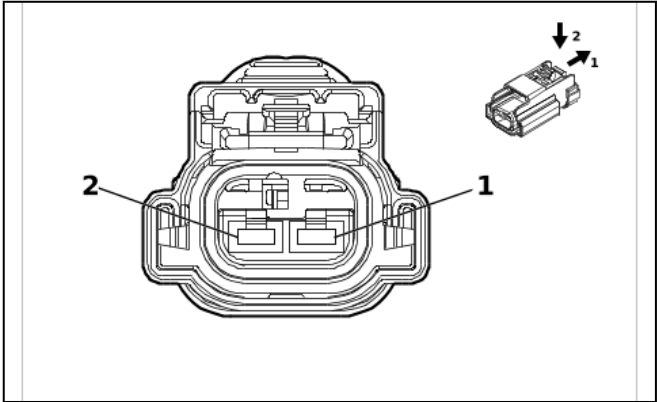
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M56P Front Seat Recliner Actuator - Passenger (AKE)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) GN	(1) 76	(1) Passenger Seat Recline Motor Forward Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 1.5	(3) BU / BN	(3) 77	(3) Passenger Seat Recline Motor Rearward Control	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

M63 Rear Sliding Window Motor (A48)



5795169

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35286783
- Service Connector: 19301518
- Description: 2-Way F 2.8 APEX Series, Sealed(BK)

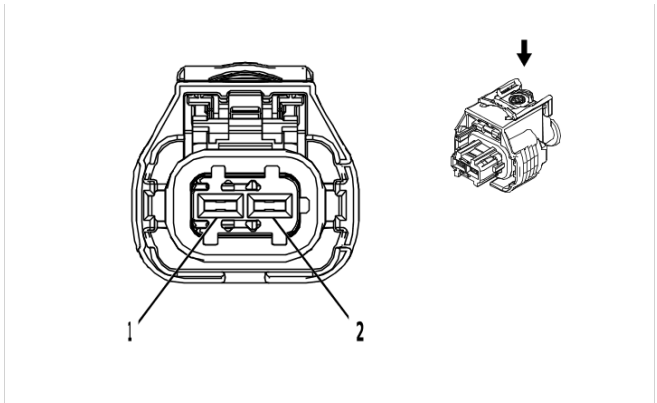
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M63 Rear Sliding Window Motor (A48)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2	(1) YE	(1) 7454	(1) Window Motor Rear Auxiliary Close Control	(1) I	(1) —
(2) 2	(2) 2	(2) VT / YE	(2) 7453	(2) Window Motor Rear Auxiliary Open Control	(2) I	(2) —

M64 Starter X1 (L3B)



2577394

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1 928 405 714
- Service Connector: 13384371
- Description: 2-Way F 2.8 Series, Sealed(BK)

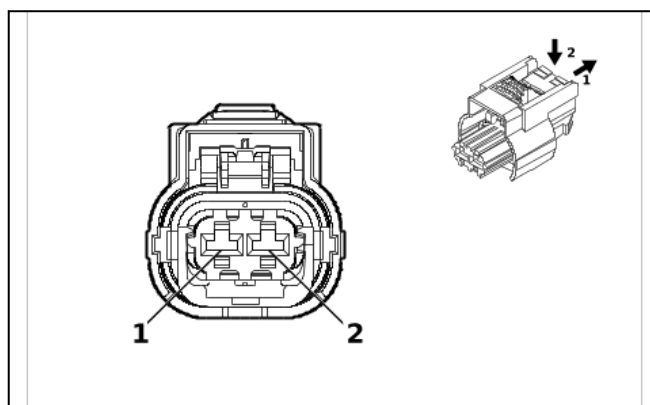
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M64 Starter X1 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) YE	(1) 6	(1) Starter Solenoid Crank Ignition Voltage	(1) I	(1) —
(2) 2	(2) 2.5	(2) YE / GN	(2) 4358	(2) Starter Pinion Solenoid Voltage	(2) I	(2) —

M64 Starter X1 (L84 / L87)



4992524

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35182447
- Service Connector: 84941154
- Description: 2-Way F 2.8 MCP Series, Sealed(BK)

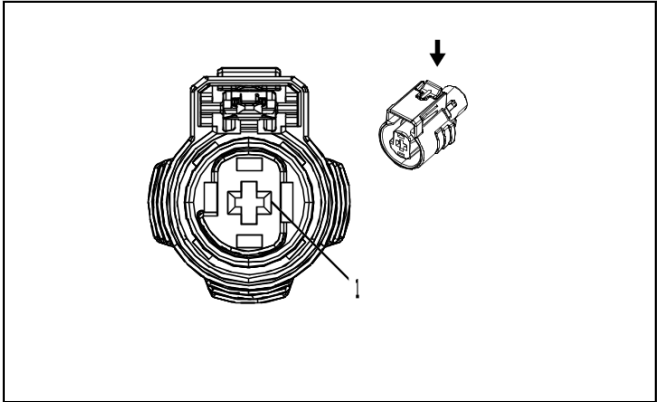
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

M64 Starter X1 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) YE	(1) 6	(1) Starter Solenoid Crank Ignition Voltage	(1) I	(1) —
(2) 2	(2) 2.5	(2) YE / GN	(2) 4358	(2) Starter Pinion Solenoid Voltage	(2) I	(2) —

M64 Starter X1 (LZ0)



2717134

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2098198-5
- Service Connector: 19300471
- Description: 1-Way F 2.8 MCP Series, Sealed(BK)

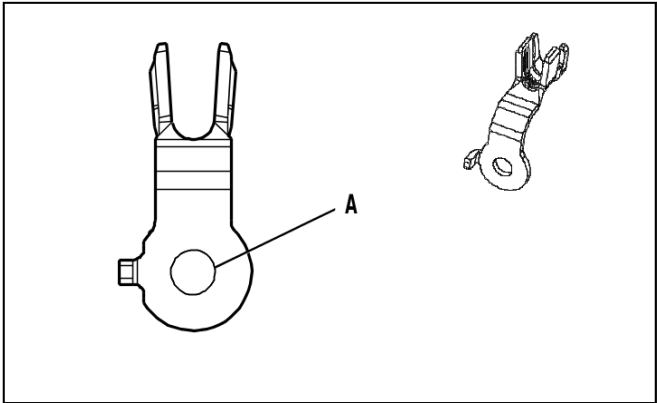
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

M64 Starter X1 (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) YE	(1) 6	(1) Starter Solenoid Crank Ignition Voltage	(1) I	(1) —

M64 Starter X2 (L3B)



5020399

Connector Part Information

- Harness Type: Starter Solenoid Cable
- OEM Connector: 13516388
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

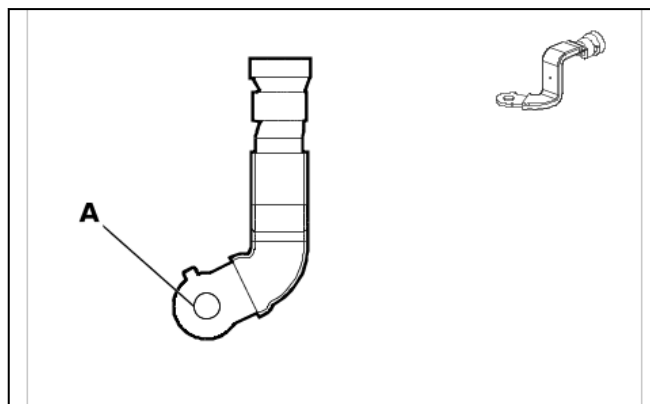
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

M64 Starter X2 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD / YE	2	Battery Positive Voltage	I	—

M64 Starter X2 (L84 / L87)



6609028

Connector Part Information

- Harness Type: Starter Solenoid Cable
- OEM Connector: 1123603
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

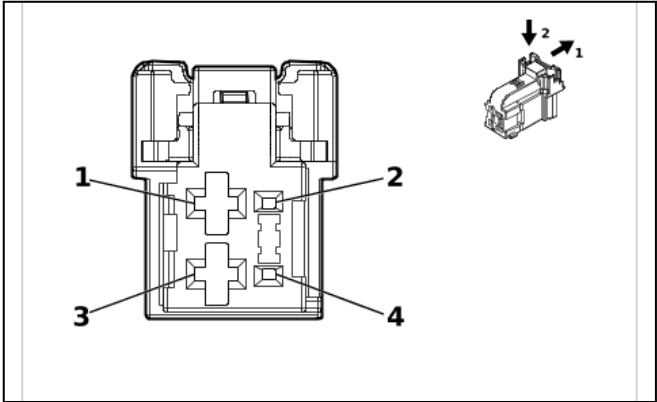
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

M64 Starter X2 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD / YE	2	Battery Positive Voltage	I	L84 / L87

M65 Steering Column Telescope Actuator (N38)



5410027

Connector Part Information

- Harness Type: Steering Column Tilt and Telescope Wheel Actuator Motor Harness
- OEM Connector: 2316171-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

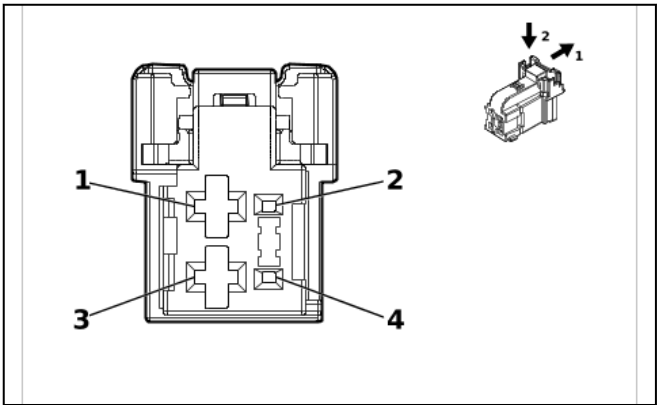
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

M65 Steering Column Telescope Actuator (N38)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) GN	(1) 2098	(1) Steering Column Telescope Motor Forward Control	(1) I	(1) —
(2) 2	(2) 0.35	(2) YE	(2) 2153	(2) Steering Column Telescope Motor Signal	(2) I	(2) —
(3) 3	(3) 1	(3) RD	(3) 2110	(3) Steering Column Telescope Motor Rearward Control	(3) I	(3) —
(4) 4	(4) 0.35	(4) WH	(4) 2152	(4) Steering Column Telescope Motor Low Reference	(4) I	(4) —

M68 Steering Column Tilt Wheel Actuator (N38)



5410027

Connector Part Information

- Harness Type: Steering Column Tilt and Telescope Wheel Actuator Motor Harness
- OEM Connector: 2316171-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

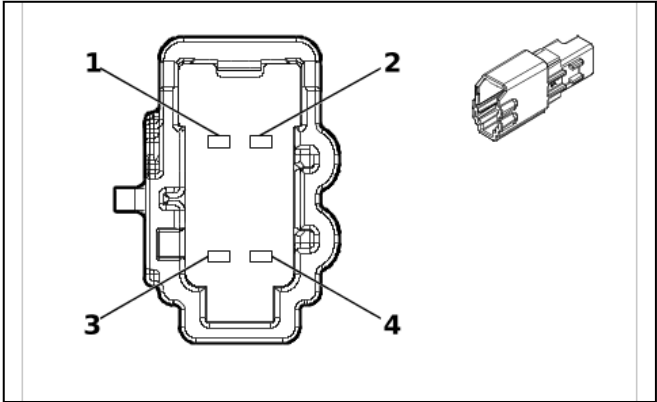
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

M68 Steering Column Tilt Wheel Actuator (N38)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) OG	(1) 2112	(1) Steering Column Tilt Motor Down Control	(1) I	(1) —
(2) 2	(2) 0.35	(2) BN	(2) 2154	(2) Steering Column Tilt Motor Signal	(2) I	(2) —
(3) 3	(3) 1	(3) VT	(3) 2111	(3) Steering Column Tilt Motor Up Control	(3) I	(3) —
(4) 4	(4) 0.35	(4) BU	(4) 2157	(4) Steering Column Tilt Motor Low Reference	(4) I	(4) —

M73A Front Seat Back Ventilation Blower - Driver



5423974

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 6098-9049
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(GY)

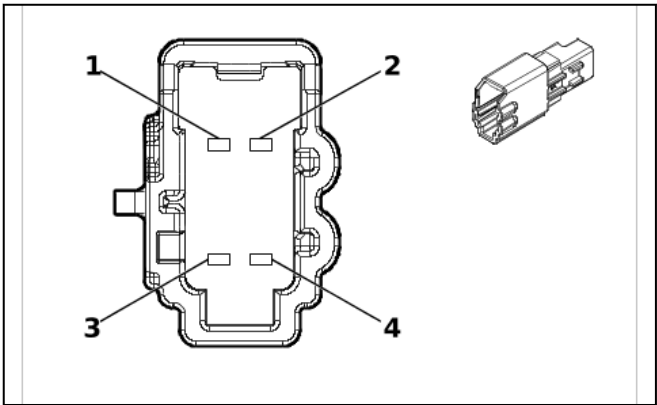
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

M73A Front Seat Back Ventilation Blower - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) VT / WH	(1) 1139	(1) Run/Crank Ignition 1 Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / VT	(2) 5906	(2) Driver Seat Blower Motor Control 1	(2) II	(2) —
(3) 3	(3) 0.75	(3) BK	(3) 1550	(3) Ground	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

M73B Front Seat Back Ventilation Blower - Passenger (KA1 & KQV)



5423974

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 6098-9049
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(GY)

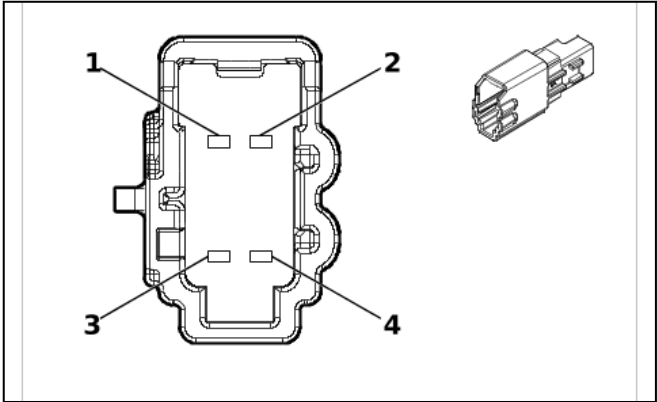
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

M73B Front Seat Back Ventilation Blower - Passenger (KA1 & KQV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) VT / WH	(1) 1139	(1) Run/Crank Ignition 1 Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / WH	(2) 5908	(2) Passenger Seat Blower Motor Control 1	(2) II	(2) —
(3) 3	(3) 0.75	(3) BK	(3) 1350	(3) Ground	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

M73D Front Seat Cushion Ventilation Blower - Driver (KA1 & KQV)



5423974

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 6098-9049
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(GY)

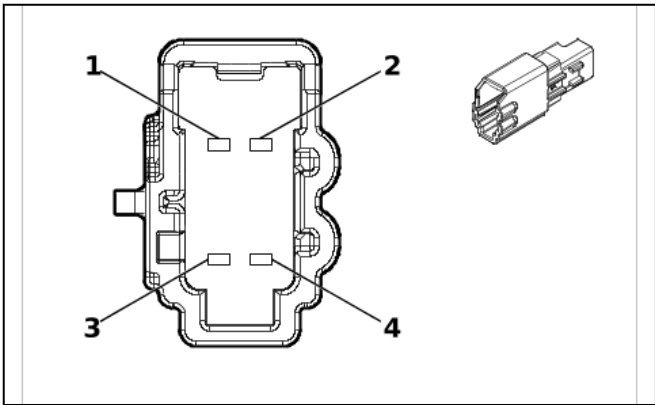
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

M73D Front Seat Cushion Ventilation Blower - Driver (KA1 & KQV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) VT / WH	(1) 1139	(1) Run/Crank Ignition 1 Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / VT	(2) 5906	(2) Driver Seat Blower Motor Control 1	(2) II	(2) —
(3) 3	(3) 0.75	(3) BK	(3) 1550	(3) Ground	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

M73P Front Seat Cushion Ventilation Blower - Passenger (KA1 & KQV)



5423974

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 6098-9049
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(GY)

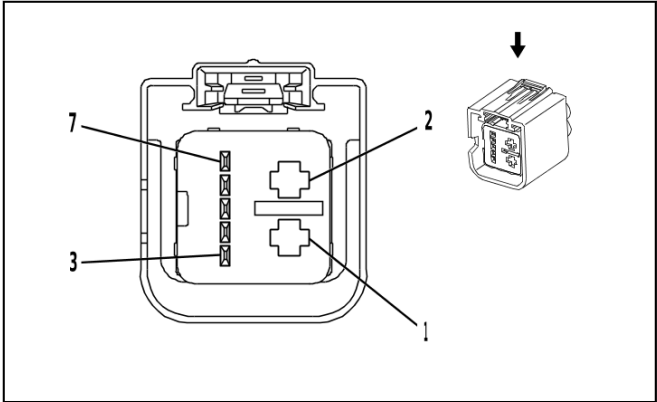
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

M73P Front Seat Cushion Ventilation Blower - Passenger (KA1 & KQV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) VT / WH	(1) 1139	(1) Run/Crank Ignition 1 Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / WH	(2) 5908	(2) Passenger Seat Blower Motor Control 1	(2) II	(2) —
(3) 3	(3) 0.75	(3) BK	(3) 1350	(3) Ground	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

M74D Front Side Door Window Regulator Motor - Driver



2282932

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Driver
- OEM Connector: 1-1732115-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 7-Way F 0.64, 2.8 Kaizen Timer Series, Sealed(GY)

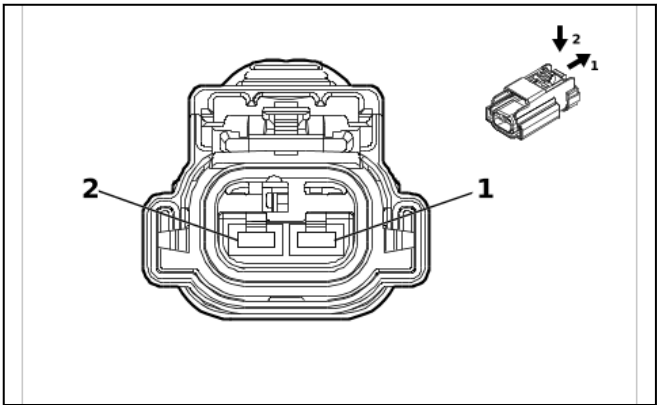
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	J-35616-64B (L-BU)	No Tool Required

M74D Front Side Door Window Regulator Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BK	(1) 1550	(1) Ground	(1) I	(1) —
(2) 2	(2) 2.5	(2) RD / GY	(2) 3540	(2) Battery Positive Voltage	(2) I	(2) —
(3) 3	(3) 0.5	(3) GY / GN	(3) 2763	(3) Window Switch Left Front Up Signal	(3) II	(3) —
(4) 4	(4) 0.5	(4) GN / YE	(4) 6134	(4) Body Control Module LIN Bus 3	(4) II	(4) —
(5) 5	(5) 0.5	(5) GN	(5) 2766	(5) Power Window Switch Left Front Express Signal	(5) II	(5) —
(6) 6	(6) 0.5	(6) GY	(6) 745	(6) Left Front Door Ajar Switch Signal	(6) II	(6) —
(7) 7	(7) 0.5	(7) WH / BN	(7) 2764	(7) Window Switch Left Front Down Signal	(7) II	(7) —

M74LR Rear Side Door Window Regulator Motor - Left



5795169

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Left Rear
- OEM Connector: 35286783
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 APEX Series, Sealed(BK)

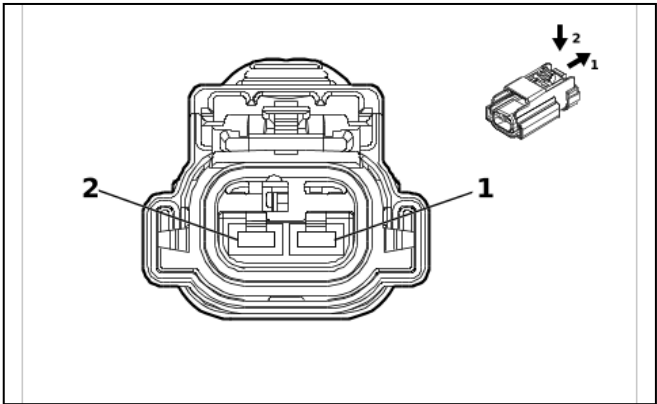
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M74LR Rear Side Door Window Regulator Motor - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2	(1) BU / VT	(1) 668	(1) Left Rear Window Motor Up Control	(1) I	(1) —
(2) 2	(2) 2	(2) YE / BU	(2) 669	(2) Left Rear Window Motor Down Control	(2) I	(2) —

M74P Front Side Door Window Regulator Motor - Passenger (AED)



5795169

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 35286783
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 APEX Series, Sealed(BK)

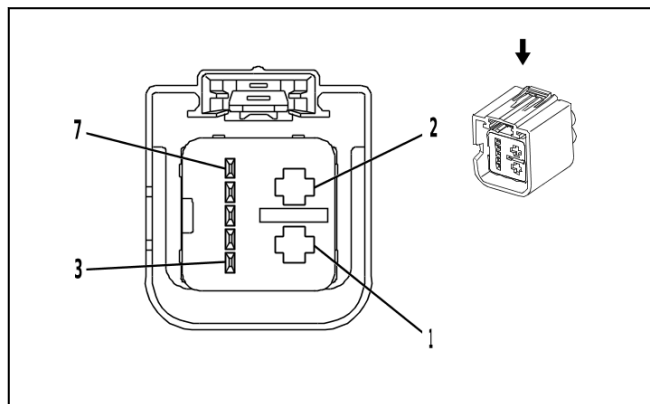
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M74P Front Side Door Window Regulator Motor - Passenger (AED)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2	(1) GN / GY	(1) 666	(1) Right Front Window Motor Up Control	(1) I	(1) —
(2) 2	(2) 2	(2) YE / BU	(2) 667	(2) Right Front Window Motor Down Control	(2) I	(2) —

M74P Front Side Door Window Regulator Motor - Passenger (AEF)



2282932

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Passenger
- OEM Connector: 1-1732115-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 7-Way F 0.64, 2.8 Kaizen Timer Series, Sealed(GY)

Terminal Part Information

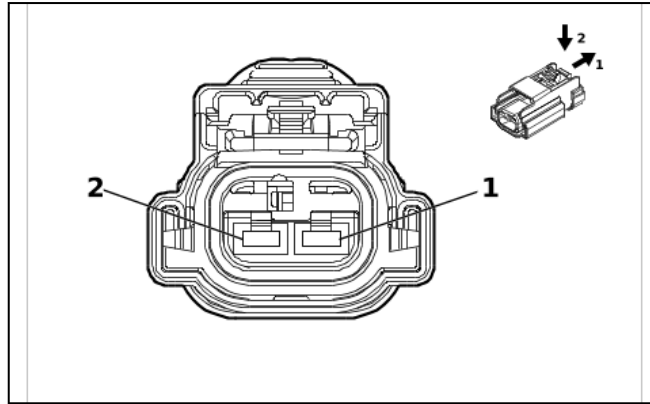
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	J-35616-64B (L-BU)	No Tool Required

M74P Front Side Door Window Regulator Motor - Passenger (AEF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BK	(1) 1350	(1) Ground	(1) I	(1) —
(2) 2	(2) 2.5	(2) RD / BN	(2) 4240	(2) Battery Positive Voltage	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN	(3) 1184	(3) Window Switch Right Front Up Signal	(3) II	(3) —
(4) 4	(4) 0.5	(4) GN / YE	(4) 6134	(4) Body Control Module LIN Bus 3	(4) II	(4) —
(5) 5	(5) 0.5	(5) VT / GY	(5) 2765	(5) Window Switch Right Front Express Signal	(5) II	(5) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(6) 6	(6) 0.5	(6) GY	(6) 746	(6) Right Front Door Ajar Switch Signal	(6) II	(6) —
(7) 7	(7) 0.5	(7) BN	(7) 5295	(7) Window Switch Right Front Down Signal	(7) II	(7) —

M74RR Rear Side Door Window Regulator Motor - Right



5795169

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Right Rear
- OEM Connector: 35286783
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 APEX Series, Sealed(BK)

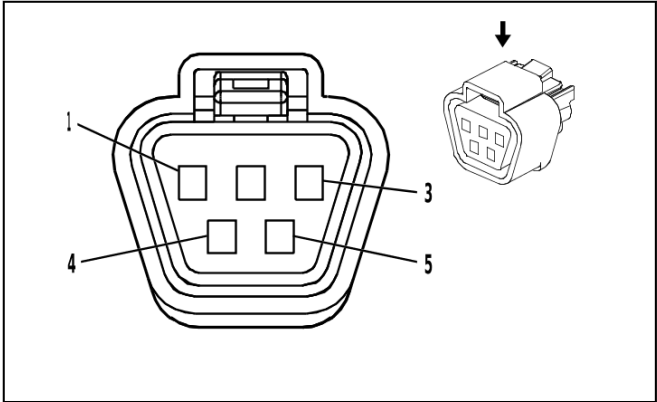
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M74RR Rear Side Door Window Regulator Motor - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2	(1) BU / GY	(1) 670	(1) Right Rear Window Motor Up Control	(1) I	(1) —
(2) 2	(2) 2	(2) GN / BK	(2) 671	(2) Right Rear Window Motor Down Control	(2) I	(2) —

M75 Windshield Wiper Motor



1715213

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 6189-0587
- Service Connector: 13587179
- Description: 5-Way F 090 Series, Sealed(BK)

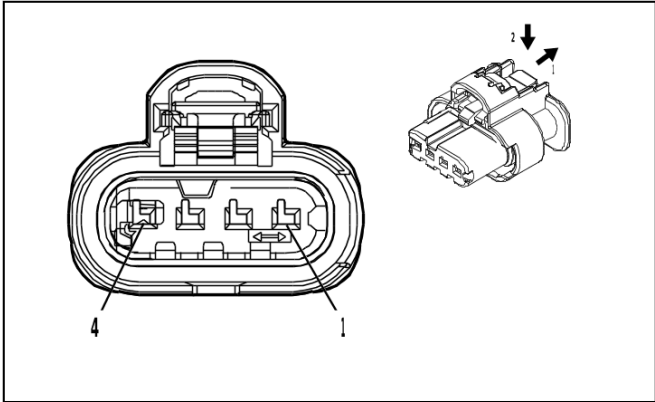
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-18 (BK)	No Tool Required

M75 Windshield Wiper Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2	(1) YE / BN	(1) 95	(1) Windshield Wiper Motor Low Speed Control	(1) II	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) BN / GN	(3) 196	(3) Windshield Wiper Motor Park Switch Signal	(3) I	(3) —
(4) 4	(4) 2	(4) WH	(4) 92	(4) Windshield Wiper Motor High Speed Control	(4) II	(4) —
(5) 5	(5) 2	(5) BK	(5) 150	(5) Ground	(5) II	(5) —

M96A Active Grille Air Shutter Actuator 1 (VTI / WMI)



4934614

Connector Part Information

- Harness Type: Active Grille Air Shutter Wiring Harness
- OEM Connector: 13514087
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2 MCON-CB Series, Sealed(BK)

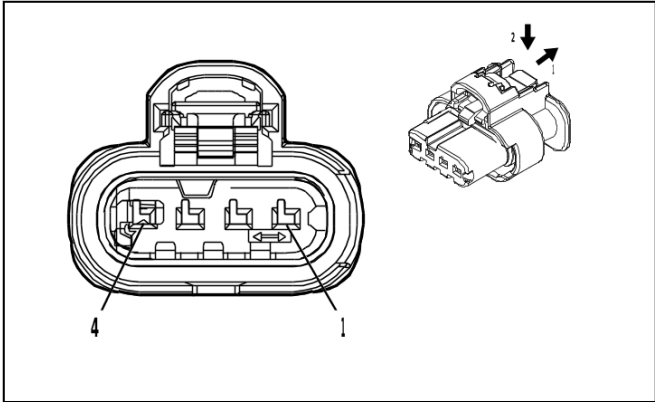
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M96A Active Grille Air Shutter Actuator 1 (VTI / WMI)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BU	(1) 5705	(1) Powertrain Main Relay Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / VT	(2) 4621	(2) Engine Control Module LIN Bus 1	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.5 (4) 0.5	(4) BK (4) BK	(4) 450 (4) 6550	(4) Ground (4) Ground	(4) I (4) I	(4) L3B/ L84/ L87 (4) LZ0

M96B Active Grille Air Shutter Actuator 2 (WMI)



4934614

- Connector Part Information**
- Harness Type: Active Grille Air Shutter Jumper Wiring Harness
 - OEM Connector: 13514087
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 4-Way F 1.2 MCON-CB Series, Sealed(BK)

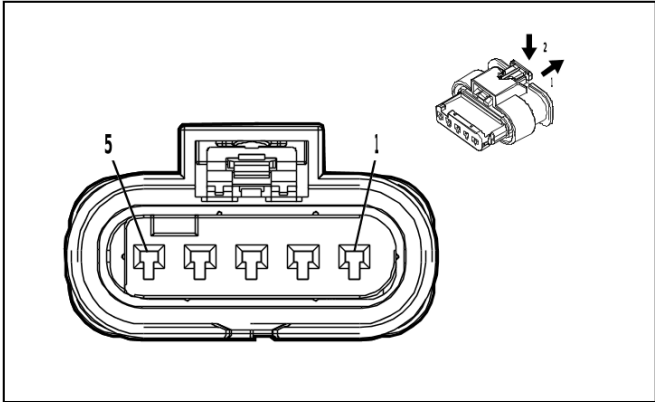
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M96B Active Grille Air Shutter Actuator 2 (WMI)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BU	(1) 5705	(1) Powertrain Main Relay Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / VT	(2) 4621	(2) Engine Control Module LIN Bus 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK	(3) 450	(3) Ground	(3) I	(3) L3B/ L84/ L87 (3) LZ0
	(3) 0.5	(3) BK	(3) 6550	(3) Ground	(3) I	
(4) 4	(4) 0.5	(4) BK	(4) 450	(4) Ground	(4) I	(4) L3B/ L84/ L87 (4) LZ0
	(4) 0.5	(4) BK	(4) 6550	(4) Ground	(4) I	

M103 Turbocharger Vane Position Actuator



3338689

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-1718806-1
- Service Connector: 19119351
- Description: 5-Way F 1.2 MCON-LL Series, Sealed(BK)

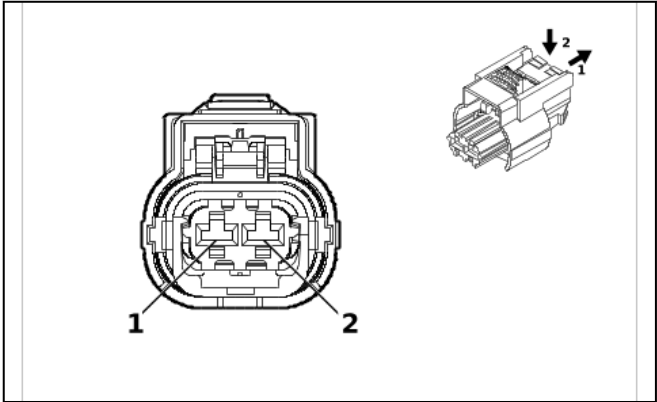
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M103 Turbocharger Vane Position Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) WH / BN	(1) 1313	(1) Variable Geometry Turbocharger Position Sensor Motor Open Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / YE	(2) 5947	(2) Turbocharger Vane Position Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / GN	(3) 580	(3) Engine Control Sensors Low Reference 2	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH / RD	(4) 480	(4) Engine Control Vehicle Sensors 5 Volt Reference 1	(4) I	(4) —
(5) 5	(5) 0.75	(5) GY / BK	(5) 1330	(5) Variable Geometry Turbocharger Position Sensor Motor Close Control	(5) I	(5) —

M104L Parking Brake Actuator - Left



4992524

- Connector Part Information**
- Harness Type: Chassis Rear Wiring Harness Extension Harness
 - OEM Connector: 35182447
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 2-Way F 2.8 MCP Series, Sealed(BK)

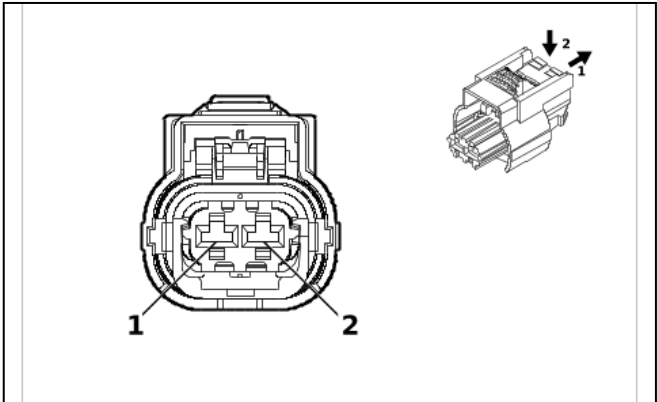
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M104L Parking Brake Actuator - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) WH	(1) 2001	(1) Left Park Brake Motor Apply Control	(1) I	(1) - Z45, + Z45, + G94
(2) 2	(2) 2.5	(2) GY / BK	(2) 4369	(2) Left Park Brake Motor Low Reference	(2) I	(2) - Z45, + Z45, + G94

M104R Parking Brake Actuator - Right



4992524

- Connector Part Information**
- Harness Type: Chassis Rear Wiring Harness Extension Harness
 - OEM Connector: 35182447
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 2-Way F 2.8 MCP Series, Sealed(BK)

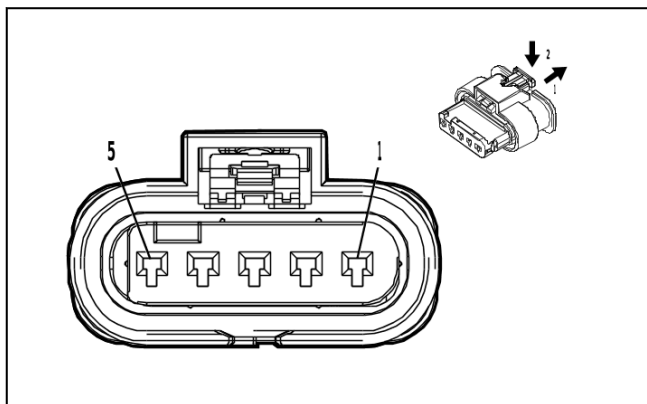
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

M104R Parking Brake Actuator - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GN / VT	(1) 1988	(1) Right Park Brake Motor Apply Control	(1) I	(1) - Z45, + Z45, + G94
(2) 2	(2) 2.5	(2) GY	(2) 4368	(2) Right Park Brake Motor Low Reference	(2) I	(2) - Z45, + Z45, + G94

M106V Exhaust Control Valve Actuator - Variable



3338689

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 1-1718806-1
- Service Connector: 19119351
- Description: 5-Way F 1.2 MCON-LL Series, Sealed(BK)

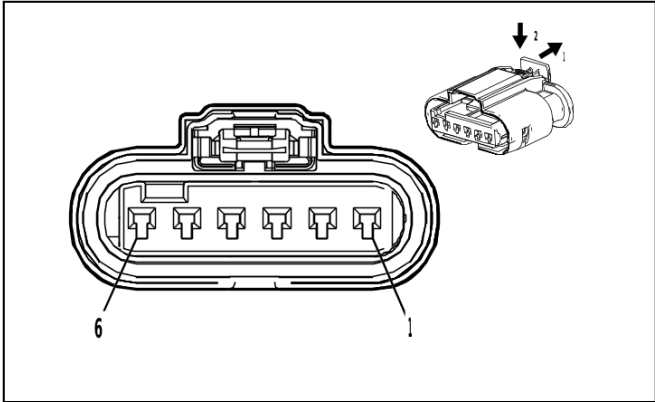
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M106V Exhaust Control Valve Actuator - Variable

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 1650	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 4305	(2) Exhaust Flow Control Valve 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) VT / WH	(3) 639	(3) Run/Crank Ignition 1 Voltage	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU / WH	(4) 4306	(4) Exhaust Flow Control Valve 1 - Cylinder Deactivation Feedback Signal	(4) I	(4) —
5	—	—	—	Not Occupied	—	—

M122 Exhaust Pressure Regulator Valve (LM2)



3960142

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 34900-6119
- Service Connector: 85005020
- Description: 6-Way F 1.2 MCON-LL Series, Sealed(BK)

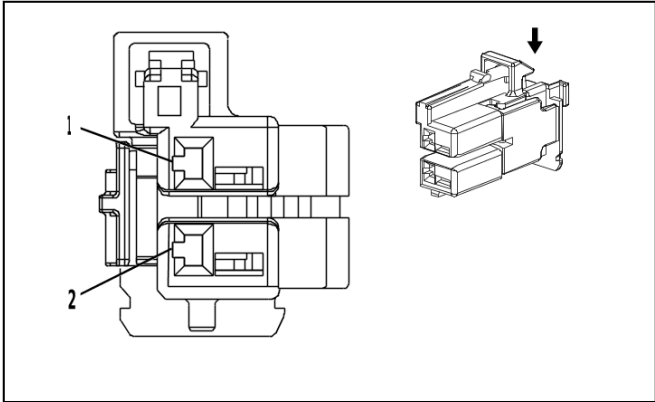
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

M122 Exhaust Pressure Regulator Valve (LM2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) YE / BN	(1) 1420	(1) Exhaust Restrictor Motor Open Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) BN	(2) 1421	(2) Exhaust Restrictor Motor Closed Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 548	(3) Engine Control Sensors Low Reference 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) BN / GN	(4) 4305	(4) Exhaust Flow Control Valve 1	(4) I	(4) —
(5) 5	(5) 0.5	(5) BU / RD	(5) 460	(5) Engine Control Sensors 5 Volt Reference 1	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

M123 Transmission Park Valve Lock Solenoid Actuator (MHS / MQC)



4364736

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 2289523-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BU)

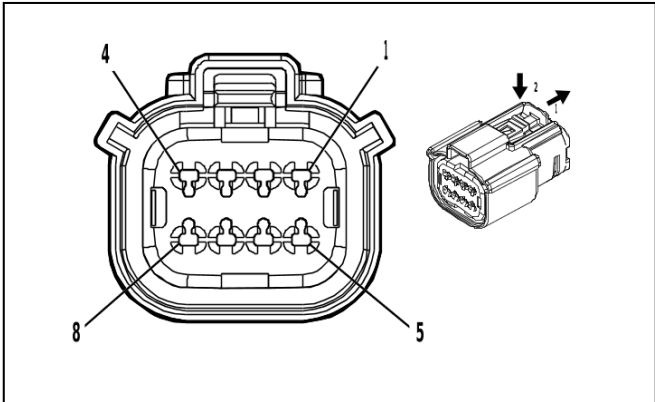
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M123 Transmission Park Valve Lock Solenoid Actuator (MHS / MQC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 6387	(1) Transmission High Side Driver 1 Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) OG	(2) 2159	(2) Park Inhibit Solenoid Assembly Control	(2) I	(2) —

M125 Pickup Box Endgate Power Assist Actuator



4846407

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 33472-4806
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 1.5 MX Series, Sealed(BK)

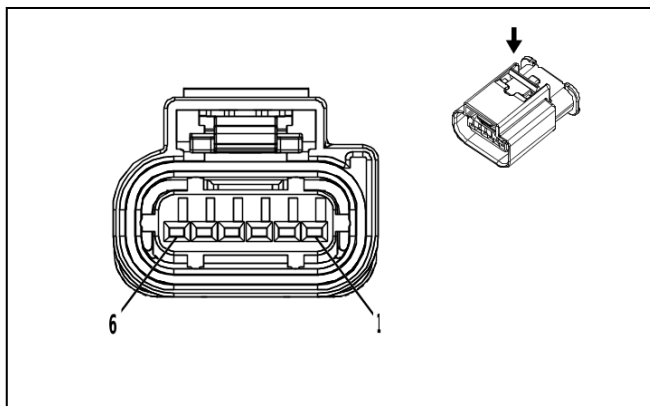
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

M125 Pickup Box Endgate Power Assist Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BN / WH	(1) 4690	(1) Rear Closure Open/Close Motor Close Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN	(2) 1577	(2) Rear Closure Clutch Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / BK	(3) 1590	(3) Rear Closure Clutch Low Return	(3) I	(3) —
(4) 4	(4) 0.5	(4) BN / RD	(4) 4683	(4) Rear Closure Position Sensor Voltage Reference	(4) I	(4) —
(5) 5	(5) 1	(5) WH	(5) 4689	(5) Rear Closure Open/Close Motor Open Control	(5) I	(5) —
(6) 6	(6) 0.5	(6) BN / YE	(6) 4686	(6) Rear Closure Position Sensor Signal 2	(6) I	(6) —
(7) 7	(7) 0.5	(7) BK / GN	(7) 4687	(7) Rear Closure Position Sensor Low Reference	(7) I	(7) —
(8) 8	(8) 0.5	(8) BU / WH	(8) 4685	(8) Rear Closure Position Sensor Signal 1	(8) I	(8) —

M128 Turbocharger Wastegate Actuator



3747579

Connector Part Information

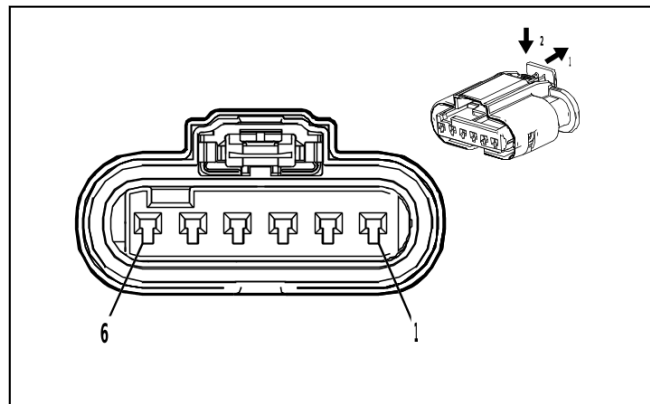
- Harness Type: Engine Wiring Harness
- OEM Connector: 2272975-5
- Service Connector: 19352911
- Description: 6-Way F 1.2 MCON Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M128 Turbocharger Wastegate Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / YE	(1) 548	(1) Engine Control Sensors Low Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH	(2) 2590	(2) Turbocharger Wastegate Motor Feedback Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / RD	(3) 460	(3) Engine Control Sensors 5 Volt Reference 1	(3) I	(3) —
(4) 4	(4) 0.75	(4) WH / BU	(4) 2592	(4) Turbocharger Wastegate Motor Close Control	(4) I	(4) —
(5) 5	(5) 0.75	(5) WH / BN	(5) 2591	(5) Turbocharger Wastegate Motor Open Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

M129A Intake Camshaft Profile Actuator 1

3960142

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34900-6219
- Service Connector: 85005020
- Description: 6-Way F 1.2 MCON-LL Series, Sealed(BK)

Terminal Part Information

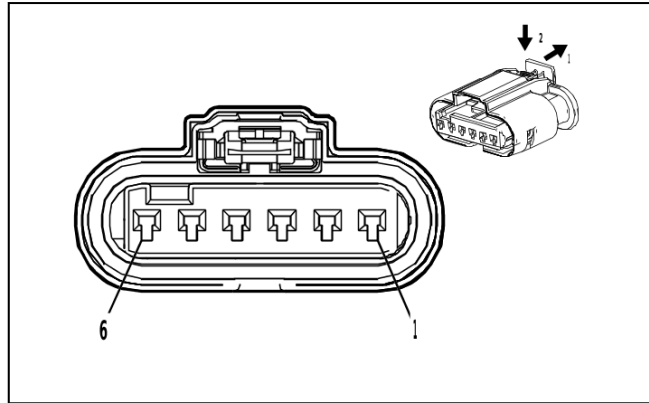
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M129A Intake Camshaft Profile Actuator 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / GY	(1) 3615	(1) Intake Camshaft Profile Actuator 1 Control A	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU / WH	(2) 3589	(2) Intake Camshaft Profile Actuator 1 Position Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 548	(3) Engine Control Sensors Low Reference 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU / RD	(4) 460	(4) Engine Control Sensors 5 Volt Reference 1	(4) I	(4) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(5) 5	(5) 0.5	(5) VT / BU	(5) 5293	(5) Powertrain Main Relay Fused Supply Voltage ₄	(5) I	(5) —
(6) 6	(6) 0.5	(6) GN / BK	(6) 3616	(6) Intake Camshaft Profile Actuator 1 Control B	(6) I	(6) —

M129B Intake Camshaft Profile Actuator 2



3960142

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34900-6219
- Service Connector: 85005020
- Description: 6-Way F 1.2 MCON-LL Series, Sealed(BK)

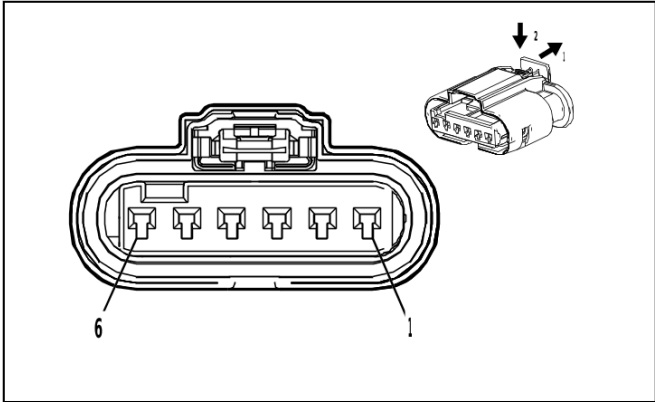
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M129B Intake Camshaft Profile Actuator 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN	(1) 3585	(1) Intake Camshaft Profile Actuator 2 Control A	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / WH	(2) 3592	(2) Intake Camshaft Profile Actuator 2 Position Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 548	(3) Engine Control Sensors Low Reference 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU / RD	(4) 460	(4) Engine Control Sensors 5 Volt Reference 1	(4) I	(4) —
(5) 5	(5) 0.5	(5) VT / BU	(5) 5293	(5) Powertrain Main Relay Fused Supply Voltage ₄	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU	(6) 3584	(6) Intake Camshaft Profile Actuator 2 Control B	(6) I	(6) —

M129C Intake Camshaft Profile Actuator 3



3960142

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34900-6219
- Service Connector: 85005020
- Description: 6-Way F 1.2 MCON-LL Series, Sealed(BK)

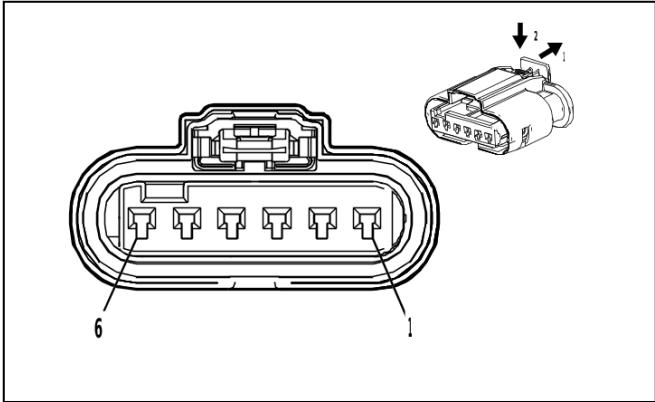
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M129C Intake Camshaft Profile Actuator 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / BU	(1) 3587	(1) Intake Camshaft Profile Actuator 3 Control A	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / GN	(2) 3593	(2) Intake Camshaft Profile Actuator 3 Position Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 548	(3) Engine Control Sensors Low Reference 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU / RD	(4) 460	(4) Engine Control Sensors 5 Volt Reference 1	(4) I	(4) —
(5) 5	(5) 0.5	(5) VT / BU	(5) 5293	(5) Powertrain Main Relay Fused Supply Voltage 4	(5) I	(5) —
(6) 6	(6) 0.5	(6) GY	(6) 3586	(6) Intake Camshaft Profile Actuator 3 Control B	(6) I	(6) —

M129D Intake Camshaft Profile Actuator 4



3960142

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34900-6219
- Service Connector: 85005020
- Description: 6-Way F 1.2 MCON-LL Series, Sealed(BK)

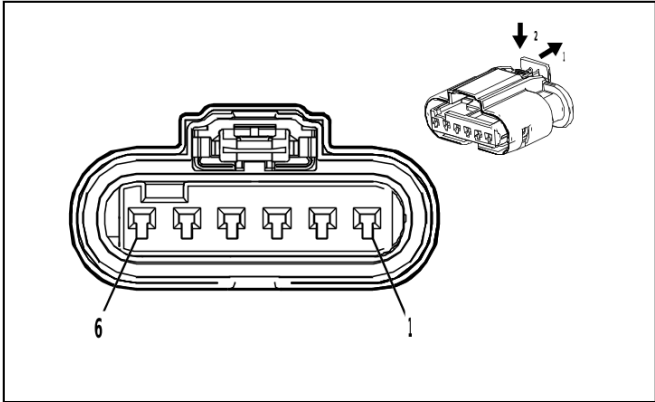
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M129D Intake Camshaft Profile Actuator 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / YE	(1) 1402	(1) Intake Camshaft Profile Actuator 4 Control A	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / BN	(2) 1702	(2) Intake Camshaft Profile Actuator 4 Position Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 548	(3) Engine Control Sensors Low Reference 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU / RD	(4) 460	(4) Engine Control Sensors 5 Volt Reference 1	(4) I	(4) —
(5) 5	(5) 0.5	(5) VT / BU	(5) 5293	(5) Powertrain Main Relay Fused Supply Voltage 4	(5) I	(5) —
(6) 6	(6) 0.5	(6) GY / YE	(6) 1502	(6) Intake Camshaft Profile Actuator 4 Control B	(6) I	(6) —

M130B Exhaust Camshaft Profile Actuator 2



3960142

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34900-6219
- Service Connector: 85005020
- Description: 6-Way F 1.2 MCON-LL Series, Sealed(BK)

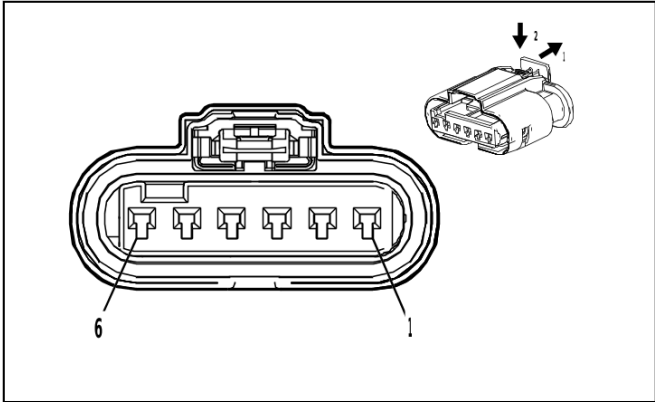
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M130B Exhaust Camshaft Profile Actuator 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / VT	(1) 6265	(1) Exhaust Camshaft Profile Actuator 2 Control B	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / BK	(2) 6266	(2) Exhaust Camshaft Profile Actuator 2 Position Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 548	(3) Engine Control Sensors Low Reference 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU / RD	(4) 460	(4) Engine Control Sensors 5 Volt Reference 1	(4) I	(4) —
(5) 5	(5) 0.5	(5) VT / BU	(5) 5293	(5) Powertrain Main Relay Fused Supply Voltage 4	(5) I	(5) —
(6) 6	(6) 0.5	(6) VT / BK	(6) 6264	(6) Exhaust Camshaft Profile Actuator 2 Control A	(6) I	(6) —

M130C Exhaust Camshaft Profile Actuator 3



3960142

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34900-6219
- Service Connector: 85005020
- Description: 6-Way F 1.2 MCON-LL Series, Sealed(BK)

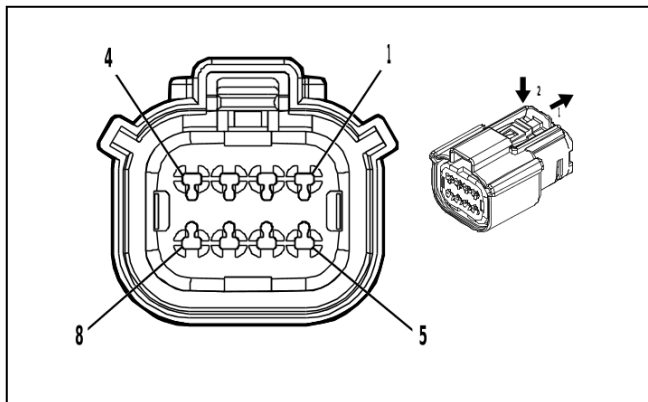
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

M130C Exhaust Camshaft Profile Actuator 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / BN	(1) 6262	(1) Exhaust Camshaft Profile Actuator 3 Control B	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE	(2) 6263	(2) Exhaust Camshaft Profile Actuator 3 Position Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 548	(3) Engine Control Sensors Low Reference 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU / RD	(4) 460	(4) Engine Control Sensors 5 Volt Reference 1	(4) I	(4) —
(5) 5	(5) 0.5	(5) VT / BU	(5) 5293	(5) Powertrain Main Relay Fused Supply Voltage 4	(5) I	(5) —
(6) 6	(6) 0.5	(6) GN / BN	(6) 6261	(6) Exhaust Camshaft Profile Actuator 3 Control A	(6) I	(6) —

M151L Pickup Box Endgate Cinch Latch Actuator - Left



4846407

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 33472-4806
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 1.5 MX Series, Sealed(BK)

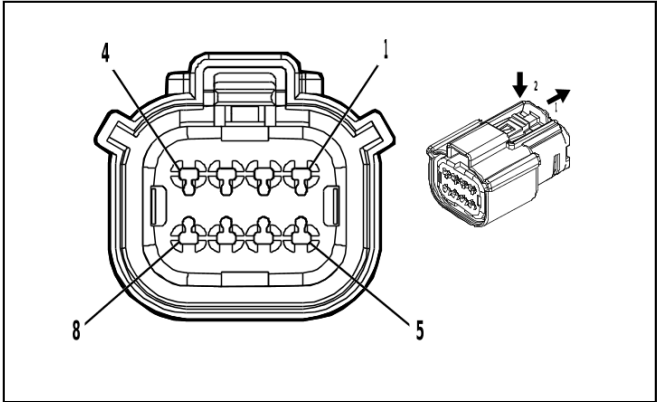
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

M151L Pickup Box Endgate Cinch Latch Actuator - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.5	(2) BN / GY	(2) 10281	(2) Rear Closure Latch Secondary Status Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) GY / VT	(3) 4678	(3) Rear Closure Latch Unlatch Status	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / VT	(4) 4656	(4) Rear Closure Object Sensor Low Reference	(4) I	(4) —
(5) 5	(5) 1	(5) BN	(5) 4681	(5) Rear Closure Cinch Latch Motor Cinch Control	(5) I	(5) —
(6) 6	(6) 1	(6) BU / GY	(6) 4682	(6) Rear Closure Cinch Latch Motor Release Control	(6) I	(6) —
(7) 7	(7) 0.5	(7) WH / GN	(7) 8084	(7) Rear Closure Latch Neutral Status	(7) I	(7) —
(8) 8	(8) 0.5	(8) YE / BK	(8) 8085	(8) Rear Closure Latch Primary Status	(8) I	(8) —

M151R Pickup Box Endgate Cinch Latch Actuator - Right



4846407

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 33472-4806
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 1.5 MX Series, Sealed(BK)

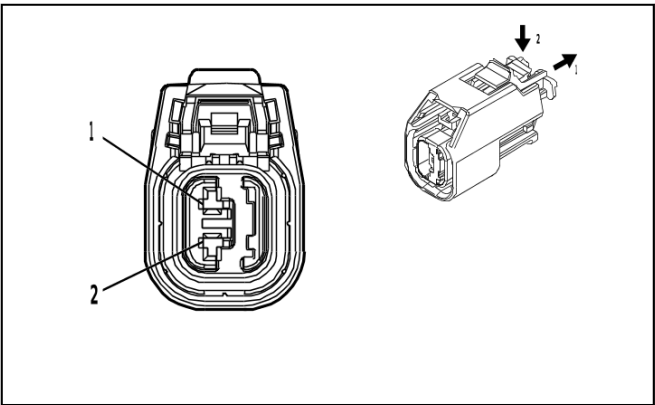
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

M151R Pickup Box Endgate Cinch Latch Actuator - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / BK	(1) 1575	(1) Rear Closure Sensor Low Reference 2	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN	(2) 7736	(2) Rear Closure Latch 2 Unlatch Status Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) VT / WH	(3) 10284	(3) Rear Closure Latch 2 Secondary Status Signal	(3) I	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) GN / BU	(5) 10283	(5) Rear Closure Latch 2 Primary Status Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / BN	(6) 10282	(6) Rear Closure Latch 2 Neutral Status Signal	(6) I	(6) —
(7) 7	(7) 1	(7) GN	(7) 1499	(7) Rear Closure Cinch Latch Motor 2 Cinch Control	(7) I	(7) —
(8) 8	(8) 1	(8) BU	(8) 1509	(8) Rear Closure Cinch Latch Motor 2 Release Control	(8) I	(8) —

P13 Horn



4889830

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33164011
- Service Connector: 86802964
- Description: 2-Way F 1.5 OCS Series, Sealed(BK)

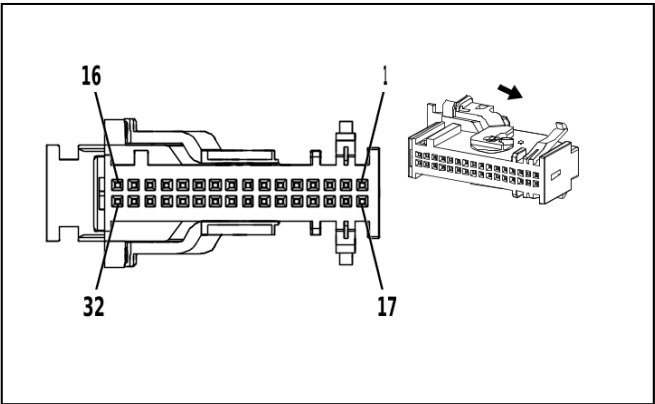
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

P13 Horn

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 650	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.75	(2) BN / GY	(2) 29	(2) Horn Control	(2) I	(2) —

P16 Instrument Panel Cluster Control Module X1



627214

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 2-2236674-1
- Service Connector: 13511333
- Description: 32-Way F 0.64 Micro-Quadlock Series(GY)

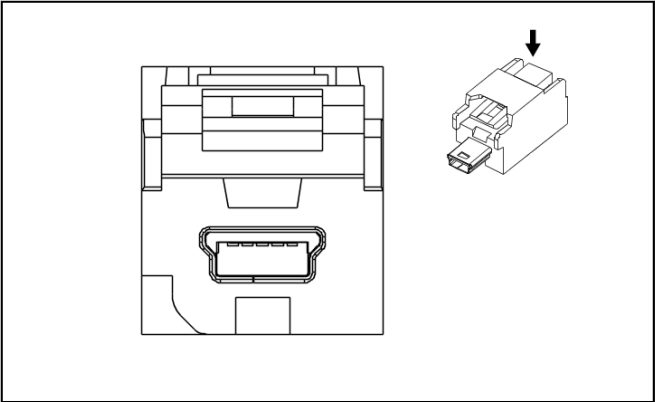
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300632	J-35616-64B (L-BU)	J-38125-215A
II	Service by Cable	J-35616-64B (L-BU)	J-38125-215A

P16 Instrument Panel Cluster Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) WH	(1) 7216	(1) Ethernet Bus 7 [-]	(1) II	(1) —
2 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) RD / WH	(7) 1340	(7) Battery Positive Voltage	(7) I	(7) —
(8) 8	(8) 0.35	(8) VT / BK	(8) 339	(8) Run/Crank Ignition 1 Voltage	(8) I	(8) —
9 - 10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.3 5	(11) GY / BK	(11) 4787	(11) Day Night LED Control	(11) I	(11) —
(12) 12	(12) 0.3 5	(12) GY / YE	(12) 3885	(12) Forward Collision Alert LED Control	(12) I	(12) —
(13) 13	(13) 0.3 5	(13) BU / WH	(13) 4985	(13) AUTOSAR CAN Bus [+] 5 Serial Data	(13) I	(13) —
(14) 14	(14) 0.3 5	(14) BU / YE	(14) 4984	(14) AUTOSAR CAN Bus [-] 5 Serial Data	(14) I	(14) —
15 - 16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.3 5	(17) GN	(17) 7217	(17) Ethernet Bus 7 [+]	(17) II	(17) —
18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.5	(19) BK / WH	(19) 851	(19) Signal Ground	(19) I	(19) —
(20) 20	(20) 0.5	(20) GN / BK	(20) 3894	(20) Instrument Panel Cluster Control Module LIN Bus 1	(20) I	(20) —
21 - 28	—	—	—	Not Occupied	—	—
(29) 29	(29) 0.3 5	(29) BU / WH	(29) 4985	(29) AUTOSAR CAN Bus [+] 5 Serial Data	(29) I	(29) —
(30) 30	(30) 0.3 5	(30) BU / YE	(30) 4984	(30) AUTOSAR CAN Bus [-] 5 Serial Data	(30) I	(30) —
31	—	—	—	Not Occupied	—	—
(32) 32	(32) 0.3 5	(32) GN / BN	(32) 507	(32) Wait To Start Indicator Control	(32) I	(32) —

P16 Instrument Panel Cluster Control Module X2



3214018

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness USB
- OEM Connector: 13893437
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 5-Way M 2.0 Mini-B USB Type(GY)

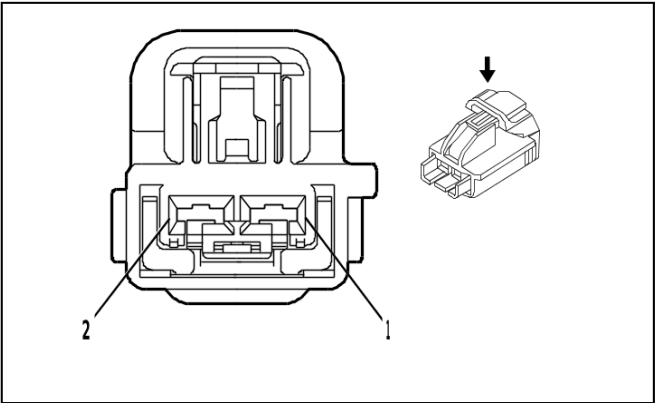
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

P16 Instrument Panel Cluster Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

P19AFC Front Floor Speaker - Console (UQA)



1803142

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 7283-6445-40
- Service Connector: 19367562
- Description: 2-Way F Kaizen Series(L-GY)

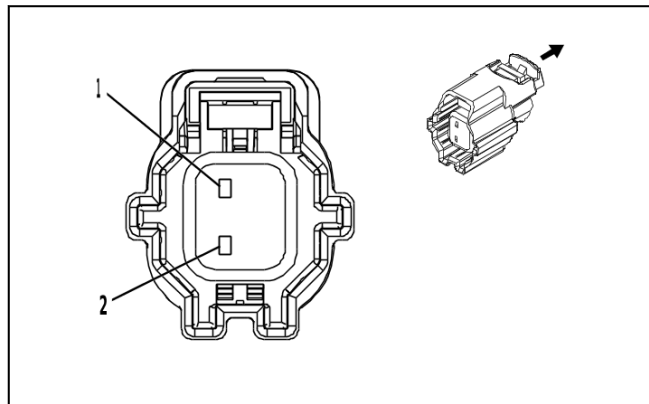
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

P19AFC Front Floor Speaker - Console (UQA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GN / BK	(1) 1794	(1) Left/Rear Subwoofer [-] Control	(1) I	(1) —
(2) 2	(2) 2.5	(2) BU / GY	(2) 346	(2) Left/Rear Subwoofer [+] Control	(2) I	(2) —

P19AG Radio Front Side Door Speaker - Left



4223204

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Driver
- OEM Connector: 34062-0044
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 MX Series, Sealed(BK)

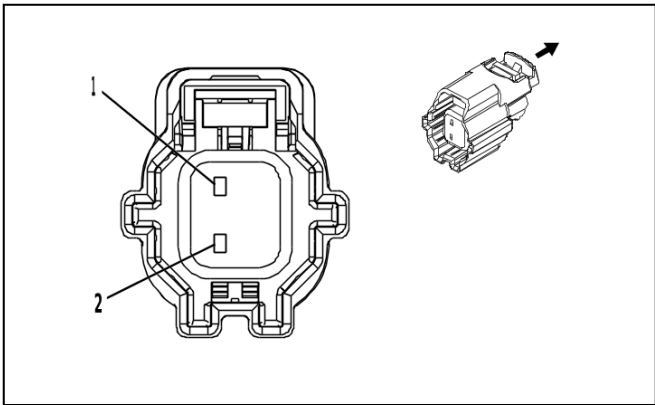
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

P19AG Radio Front Side Door Speaker - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / BU	(1) 118	(1) Left Front Speaker [-] Control 1	(1) I	(1) —
(2) 2	(2) 0.75	(2) BU	(2) 201	(2) Left Front Speaker 1 [+] Control	(2) I	(2) —

P19AH Radio Front Side Door Speaker - Right



4223204

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Passenger
- OEM Connector: 34062-0044
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 MX Series, Sealed(BK)

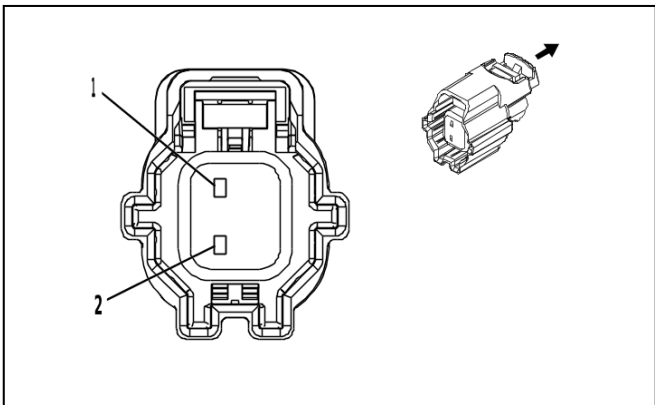
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

P19AH Radio Front Side Door Speaker - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) YE / BK	(1) 117	(1) Right Front Speaker [-] Control 1	(1) I	(1) —
(2) 2	(2) 0.75	(2) YE	(2) 200	(2) Right Front Speaker 1 [+] Control	(2) I	(2) —

P19AL Radio Rear Side Door Speaker - Left



4223204

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Left Rear
- OEM Connector: 34062-0044
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 MX Series, Sealed(BK)

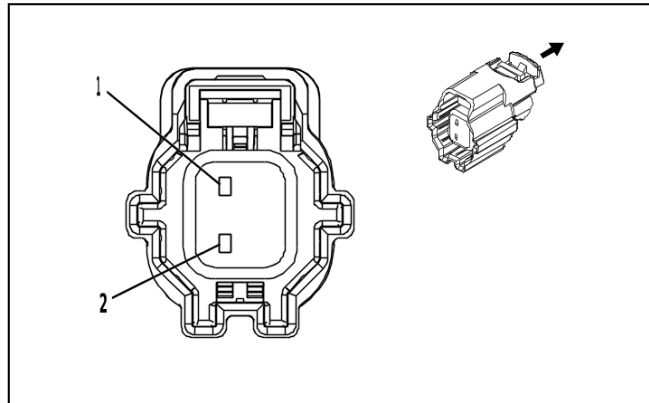
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

P19AL Radio Rear Side Door Speaker - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GN / BK	(1) 116	(1) Left Rear Speaker [-] Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) GN	(2) 199	(2) Left Rear Speaker [+] Control	(2) I	(2) —

P19AM Radio Rear Side Door Speaker - Right



4223204

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Right Rear
- OEM Connector: 34062-0044
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 MX Series, Sealed(BK)

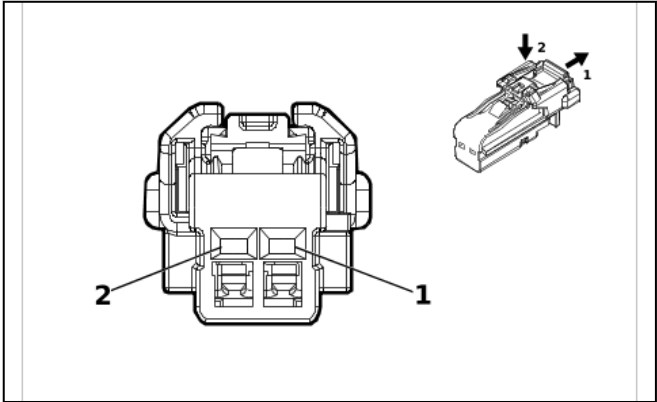
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

P19AM Radio Rear Side Door Speaker - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / BK	(1) 115	(1) Right Rear Speaker [-] Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) WH	(2) 46	(2) Right Rear Speaker [+] Control	(2) I	(2) —

P19J Radio Front Speaker - Instrument Panel Left (UQA)



4115691

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6098-8988
- Service Connector: 87816612
- Description: 2-Way F 1.2 MCON Series(BK)

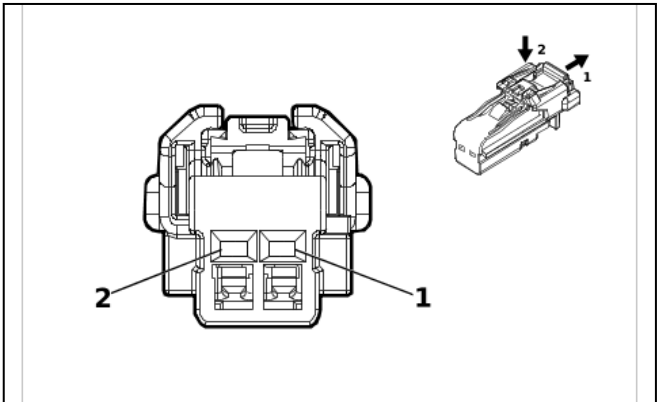
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

P19J Radio Front Speaker - Instrument Panel Left (UQA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / BN	(1) 1957	(1) Left Front Midrange Speaker [-] Control	(1) I	(1) UQA
(2) 2	(2) 0.75	(2) BU / VT	(2) 1857	(2) Left Front Midrange Speaker [+] Control	(2) I	(2) UQA

P19J Radio Front Speaker - Instrument Panel Left (UQF)



4115691

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6098-8988
- Service Connector: 87816612
- Description: 2-Way F 1.2 MCON Series(BK)

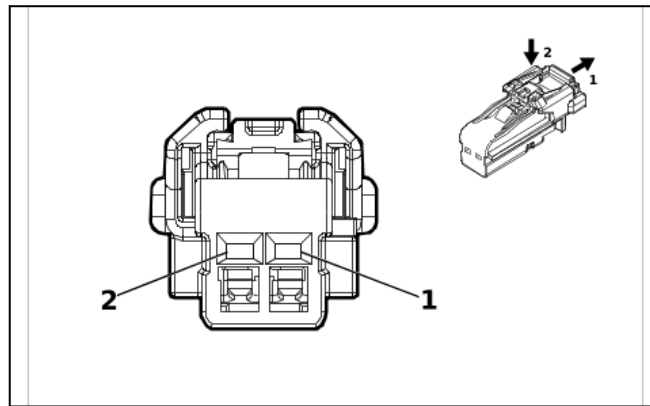
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

P19J Radio Front Speaker - Instrument Panel Left (UQF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) YE / BK	(1) 117	(1) Right Front Speaker [-] Control 1	(1) I	(1) UQF
(2) 2	(2) 0.75	(2) YE	(2) 200	(2) Right Front Speaker 1 [+] Control	(2) I	(2) UQF

P19W Radio Front Speaker - Instrument Panel Right (UQA / UQF)



4115691

Connector Part Information

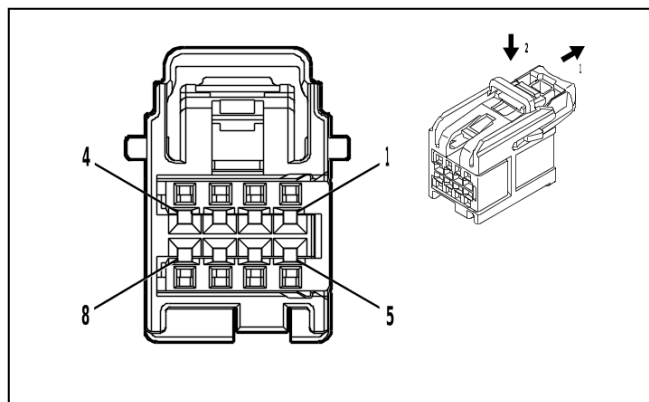
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6098-8988
- Service Connector: 87816612
- Description: 2-Way F 1.2 MCON Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	No Tool Required	No Tool Required

P19W Radio Front Speaker - Instrument Panel Right (UQA / UQF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75 (1) 0.75	(1) BN / BK (1) YE / BK	(1) 1953 (1) 117	(1) Right Front Midrange Speaker [-] Control (1) Right Front Speaker [-] Control 1	(1) II (1) I	(1) UQA (1) UQF
(2) 2	(2) 0.75 (2) 0.75	(2) WH / YE (2) YE	(2) 1853 (2) 200	(2) Right Front Midrange Speaker [+] Control (2) Right Front Speaker 1 [+] Control	(2) II (2) I	(2) UQA (2) UQF

P29 Head-Up Display X1 (UV6)

4935776

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 15526972
- Service Connector: 19370429
- Description: 8-Way F 0.64 OCS Series(BK)

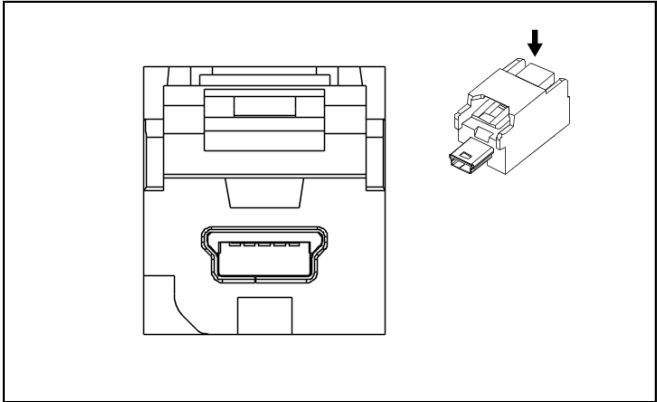
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-64B (L-BU)	No Tool Required

P29 Head-Up Display X1 (UV6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GN / BK	(1) 3894	(1) Instrument Panel Cluster Control Module LIN Bus 1	(1) I	(1) UV6
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) YE / WH	(3) 622	(3) Head-Up Display Switch Signal	(3) I	(3) UV6
(4) 4	(4) 0.5	(4) BK / WH	(4) 851	(4) Signal Ground	(4) II	(4) UV6
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.5	(6) RD / WH	(6) 1340	(6) Battery Positive Voltage	(6) II	(6) UV6
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.35	(8) BK / GN	(8) 5699	(8) Head-Up Display Switch Low Reference	(8) I	(8) UVR

P29 Head-Up Display X2 (UV6)



3214018

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 13871470
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 5-Way M 2.0 Mini-B USB Type(GY)

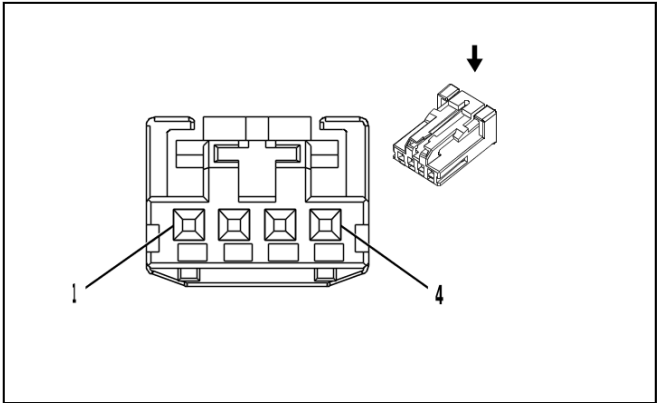
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

P29 Head-Up Display X2 (UV6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	(Head Up Display) Head Up Display Signal	I	—

P43 Forward Collision Alert Display ((UEU / UHX) - UV6)



2717162

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 1-936119-1
- Service Connector: 19367524
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

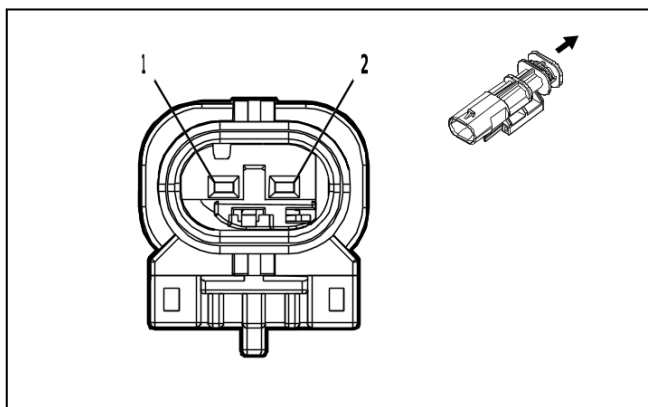
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

P43 Forward Collision Alert Display ((UEU / UHX) - UV6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) VT / BK	(1) 339	(1) Run/Crank Ignition 1 Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) GY / YE	(2) 3885	(2) Forward Collision Alert LED Control	(2) I	(2) —
(3) 3	(3) 0.35	(3) GY / BK	(3) 4787	(3) Day Night LED Control	(3) I	(3) —
(4) 4	(4) 0.35	(4) BK / WH	(4) 851	(4) Signal Ground	(4) I	(4) —

P45L Front Seat Lane Departure Warning Actuator - Left



4569729

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 34899-2080
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(BK)

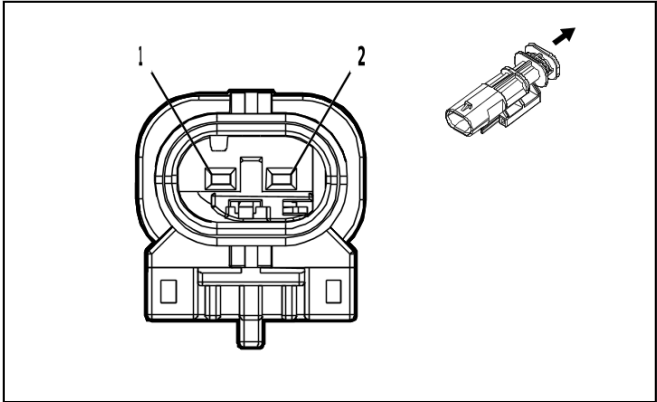
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

P45L Front Seat Lane Departure Warning Actuator - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1550	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) YE / BN	(2) 3037	(2) Driver Seat Left Rear Haptic Movement Motor Control	(2) I	(2) —

P45R Front Seat Lane Departure Warning Actuator - Right



4569729

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 34899-2080
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(BK)

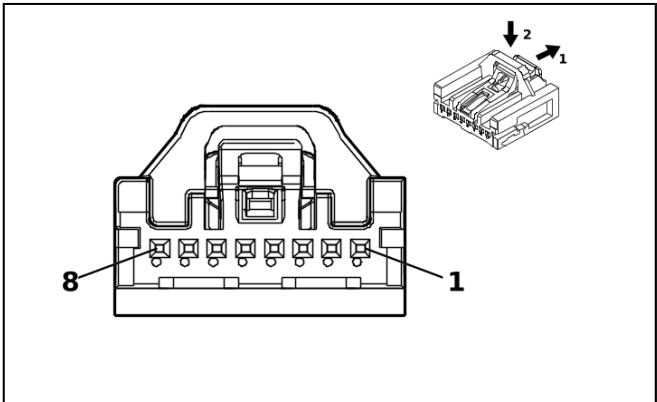
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-13 (BU)	No Tool Required

P45R Front Seat Lane Departure Warning Actuator - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1550	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) BN	(2) 3038	(2) Driver Seat Right Rear Haptic Movement Motor Control	(2) I	(2) —

P53 Driver Information Display X1 (IOK)



5200269

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35068228
- Service Connector: 84769201
- Description: 8-Way F Mini 50 Series(BK)

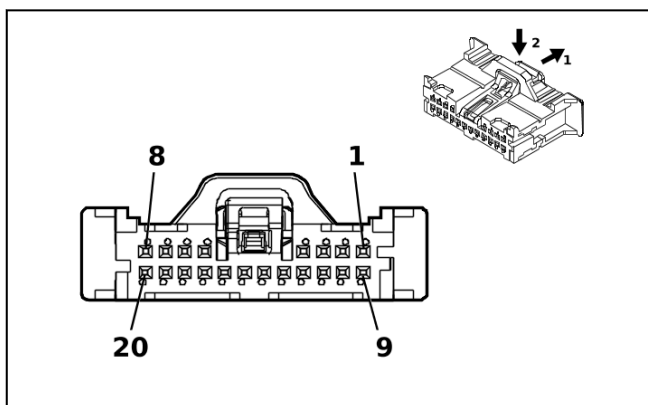
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

P53 Driver Information Display X1 (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) RD / WH	(1) 1340	(1) Battery Positive Voltage	(1) I	(1) —
2 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.35	(8) BK / WH	(8) 1051	(8) Signal Ground	(8) I	(8) —

P53 Driver Information Display X1 (IOR)



5200955

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35068196
- Service Connector: 84769280
- Description: 20-Way F Mini 50 Series(BK)

Terminal Part Information

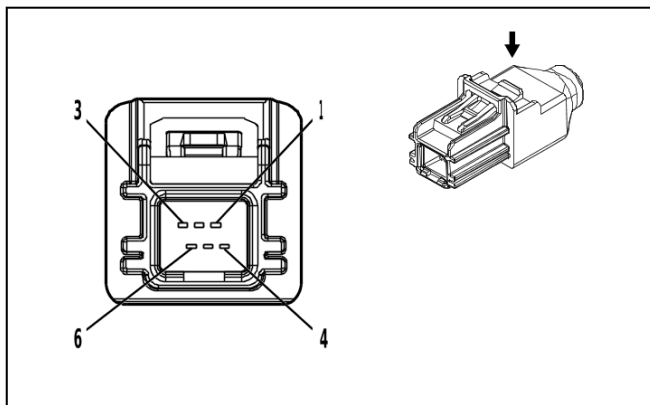
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84944580	EL-35616-58 (BK)	EL-38125-58

P53 Driver Information Display X1 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BU / RD	(1) 11246	(1) Infotainment Display 5 Volt Reference	(1) I	(1) —
(2) 2	(2) 0.35	(2) GY / BU	(2) 11247	(2) Infotainment Display LCD Enable Signal	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.35	(4) BU	(4) 11235	(4) Radio Switch Volume Up Signal	(4) I	(4) —
(5) 5	(5) 0.35	(5) GY / BN	(5) 11234	(5) Radio Switch Volume Down Signal	(5) I	(5) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(6) 6	(6) 0.35	(6) BN / WH	(6) 11233	(6) Radio Switch Power ON/OFF Switch Signal	(6) I	(6) —
(7) 7	(7) 0.35	(7) VT / WH	(7) 11245	(7) Radio Switch Buttons Signal	(7) I	(7) —
(8) 8	(8) 0.35	(8) BU / GY	(8) 11244	(8) Radio Switch Dimming Control	(8) I	(8) —
(9) 9	(9) 0.35	(9) BU / GN	(9) 11248	(9) Infotainment Display Backlight Dimming Control	(9) I	(9) —
10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.3 5	(11) BK / WH	(11) 1125 2	(11) Infotainment Display Low Reference	(11) I	(11) —
(12) 12	(12) 0.3 5	(12) YE / RD	(12) 1123 6	(12) Radio Switch 5 Volt Reference	(12) I	(12) —
(13) 13	(13) 0.3 5	(13) BK / BU	(13) 1123 7	(13) Radio Switch Low Reference 1	(13) I	(13) —
(14) 14	(14) 0.3 5	(14) BU	(14) 1123 5	(14) Radio Switch Volume Up Signal	(14) I	(14) —
(15) 15	(15) 0.3 5	(15) GY / BN	(15) 1123 4	(15) Radio Switch Volume Down Signal	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) BN / WH	(16) 1123 3	(16) Radio Switch Power ON/OFF Switch Signal	(16) I	(16) —
(17) 17	(17) 0.3 5	(17) VT / WH	(17) 1124 5	(17) Radio Switch Buttons Signal	(17) I	(17) —
(18) 18	(18) 0.3 5	(18) BU / GY	(18) 1124 4	(18) Radio Switch Dimming Control	(18) I	(18) —
(19) 19	(19) 0.3 5	(19) GY / VT	(19) 1124 9	(19) Infotainment Display Backlight Enable Control	(19) I	(19) —
(20) 20	(20) 0.3 5	(20) BK / GN	(20) 1123 8	(20) Radio Switch Low Reference 2	(20) I	(20) —

P53 Driver Information Display X2 (IOK)



4806625

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 100337-1020
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 6-Way M HSAL-2 Series(BK)

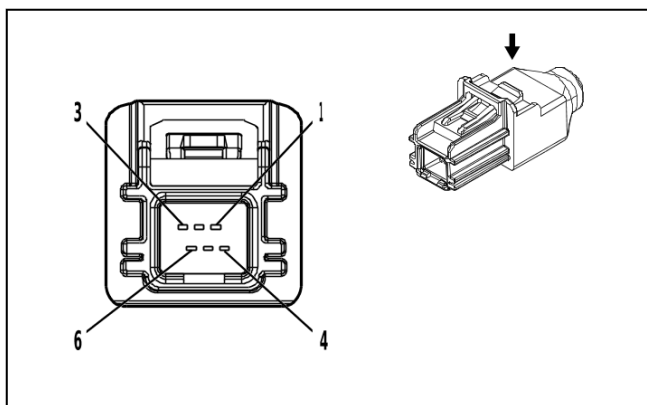
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

P53 Driver Information Display X2 (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0	(1) BARE	(1) 7853	(1) Center Stack LVDS (Low Voltage Differential Signaling) Low Reference	(1) I	(1) —
(2) 2	(2) 0	(2) BARE	(2) 7854	(2) Center Stack LVDS (Low Voltage Differential Signaling) Signal [+]	(2) I	(2) —
(3) 3	(3) 0	(3) BARE	(3) 7855	(3) Center Stack LVDS (Low Voltage Differential Signaling) Signal [-]	(3) I	(3) —
(4) 4	(4) 0	(4) BARE	(4) 7848	(4) Center Stack LVDS (Low Voltage Differential Signaling) 2 Signal [+]	(4) I	(4) —
(5) 5	(5) 0	(5) BARE	(5) 7849	(5) Center Stack LVDS (Low Voltage Differential Signaling) 2 Signal [-]	(5) I	(5) —
(6) 6	(6) 0	(6) BARE	(6) 7847	(6) Center Stack LVDS (Low Voltage Differential Signaling) 2 Low Reference	(6) I	(6) —

P53 Driver Information Display X2 (IOR)



4806625

Connector Part Information

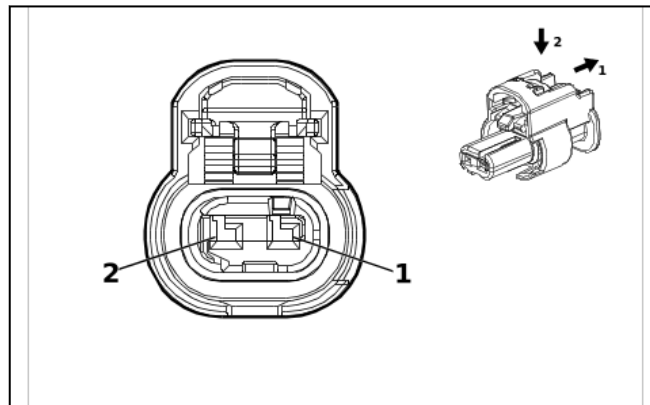
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 100337-1020
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 6-Way M HSAL-2 Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

P53 Driver Information Display X2 (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0	(1) BARE	(1) 4844	(1) Radio LVDS (Low Voltage Differential Signaling) Low Reference	(1) I	(1) —
(2) 2	(2) 0	(2) BARE	(2) 4845	(2) Radio LVDS (Low Voltage Differential Signaling) Signal [+]	(2) I	(2) —
(3) 3	(3) 0	(3) BARE	(3) 4846	(3) Radio LVDS (Low Voltage Differential Signaling) Signal [-]	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—

Q2 Air Conditioning Clutch (L3B)

4649903

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296694-1
- Service Connector: 85761014
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

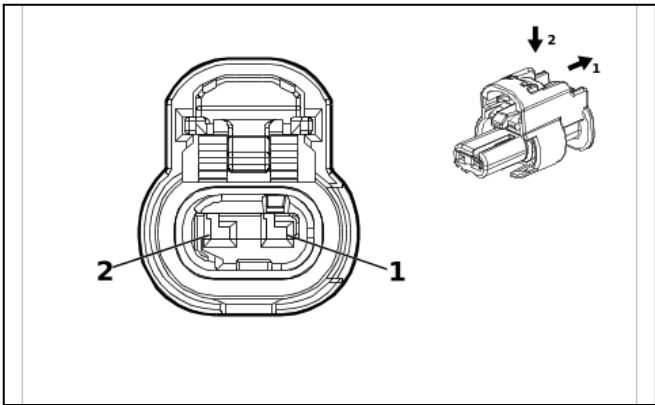
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q2 Air Conditioning Clutch (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 450	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.75	(2) BN / GN	(2) 59	(2) Air Conditioning Compressor Clutch Control	(2) I	(2) —

Q2 Air Conditioning Clutch (L84 / L87)



4649903

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296694-1
- Service Connector: 85761014
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

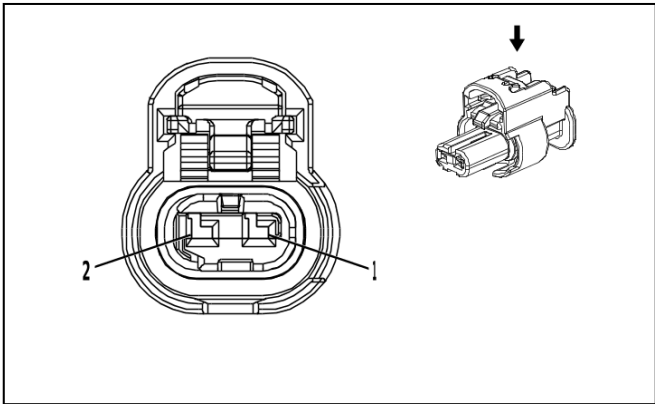
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q2 Air Conditioning Clutch (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 450	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.75	(2) BN / GN	(2) 59	(2) Air Conditioning Compressor Clutch Control	(2) I	(2) —

Q2 Air Conditioning Clutch (LZ0)



4335931

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296694-2
- Service Connector: 19366843
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

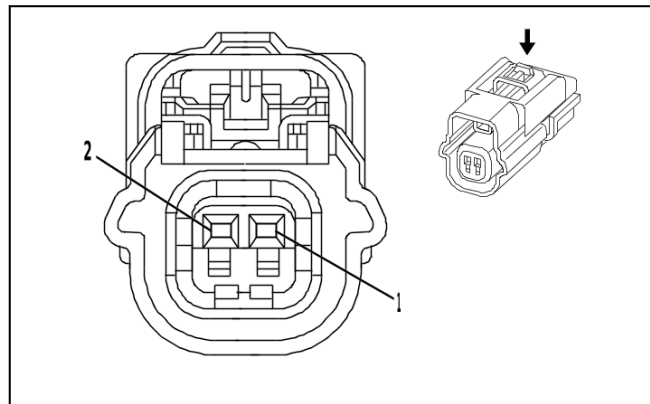
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q2 Air Conditioning Clutch (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / YE	(1) 7574	(1) Air Conditioning Compressor Solenoid Valve Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) BU / BN	(2) 7573	(2) Air Conditioning Compressor Solenoid Valve Control	(2) I	(2) —

Q6 Camshaft Position Actuator Solenoid Valve



1664592

Connector Part Information

- Harness Type: Camshaft Position Sensor Wire
- OEM Connector: 54390239
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 Kaizen Series, Sealed(BK)

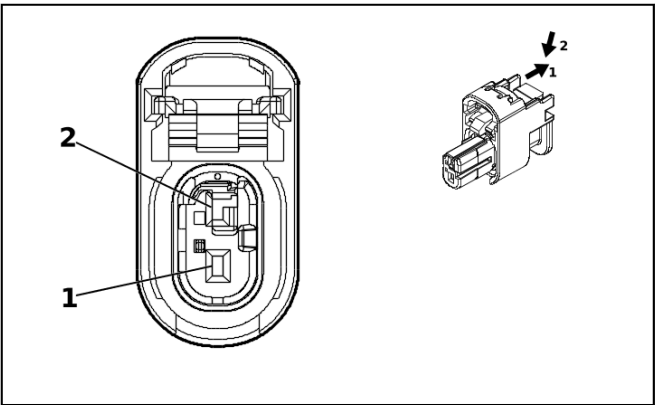
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

Q6 Camshaft Position Actuator Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / BN	(1) 6753	(1) Camshaft Position Actuator Solenoid Valve W Low Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT / BN	(2) 5284	(2) Intake Camshaft Position Actuator Solenoid Valve 1	(2) I	(2) —

Q6E Camshaft Position Actuator Solenoid Valve - Exhaust



5340268

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296702-2
- Service Connector: 19371204
- Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

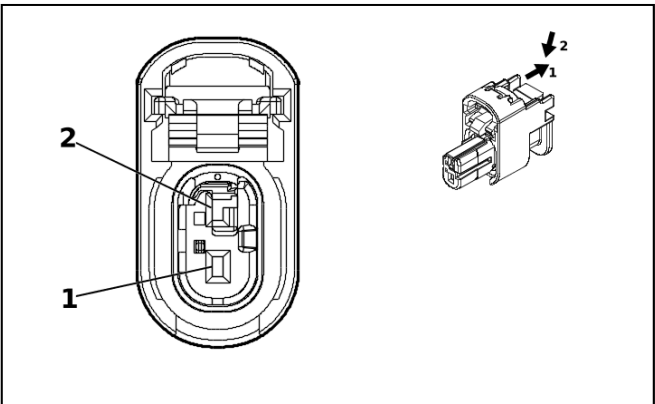
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q6E Camshaft Position Actuator Solenoid Valve - Exhaust

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / BU	(1) 5282	(1) Exhaust Camshaft Position Actuator Solenoid Valve 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / VT	(2) 6754	(2) Camshaft Position Actuator Solenoid Valve X Low Reference	(2) I	(2) —

Q6F Camshaft Position Actuator Solenoid Valve - Intake



5340268

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296702-2
- Service Connector: 19371204
- Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

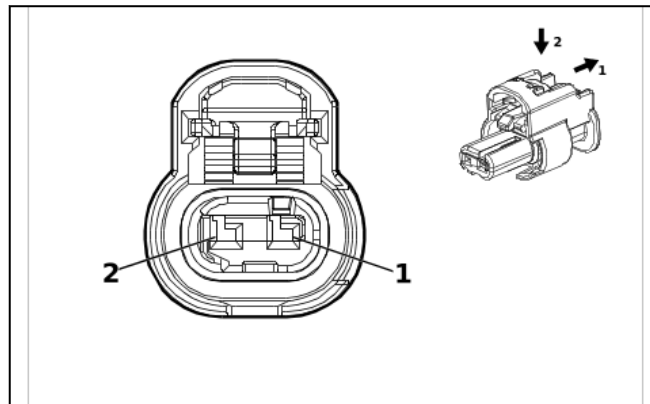
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q6F Camshaft Position Actuator Solenoid Valve - Intake

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BN	(1) 5284	(1) Intake Camshaft Position Actuator Solenoid Valve 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / BN	(2) 6753	(2) Camshaft Position Actuator Solenoid Valve W Low Reference	(2) I	(2) —

Q9F Differential Locking Actuator - Front (G93)



4649903

Connector Part Information

- Harness Type: Front Differential Locking Actuator Jumper Wiring Harness
- OEM Connector: 13512365
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

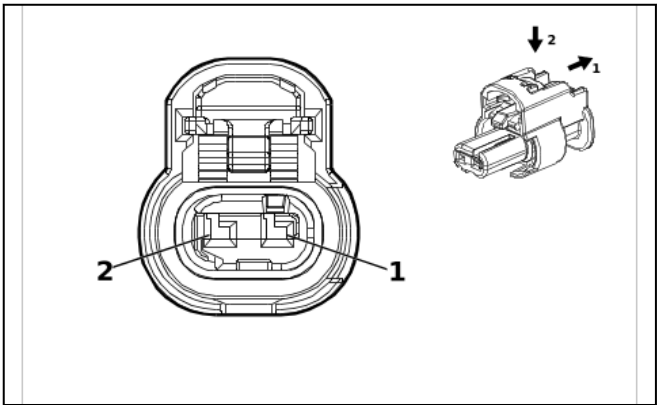
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q9F Differential Locking Actuator - Front (G93)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) VT / WH	(1) 7256	(1) Front Differential Lock Actuator Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) WH / BK	(2) 7254	(2) Front Differential Lock Actuator Low Control	(2) I	(2) —

Q9R Differential Locking Actuator - Rear (G94)



4649903

Connector Part Information

- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 13512365
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

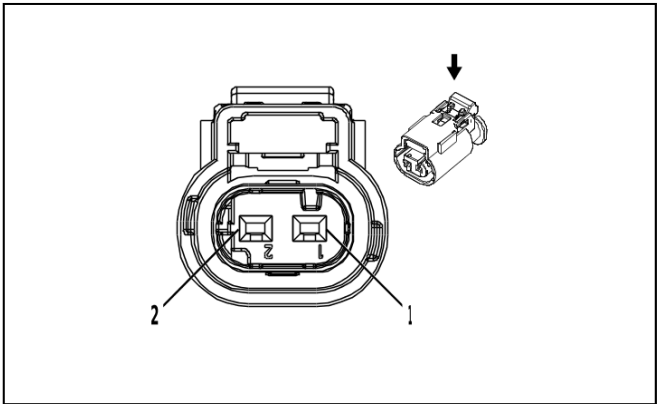
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

Q9R Differential Locking Actuator - Rear (G94)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) VT / BN	(1) 7258	(1) Rear Differential Lock Actuator Control	(1) I	(1) G94
(2) 2	(2) 0.75	(2) GY / BK	(2) 7253	(2) Rear Differential Lock Actuator Low Control	(2) I	(2) G94

Q12 Evaporative Emission Canister Purge Solenoid Valve (L84 / L87)



2717066

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010337
- Service Connector: 13587326
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

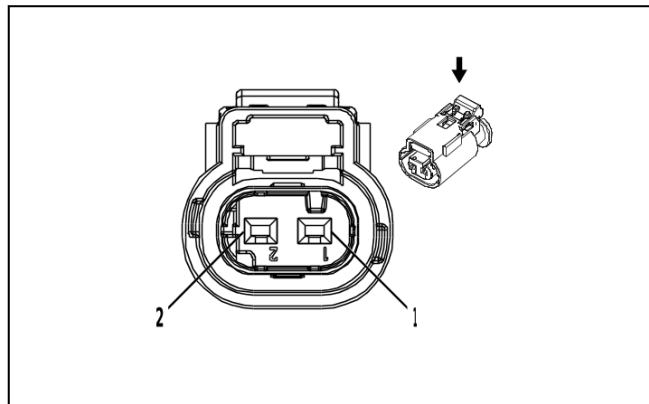
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q12 Evaporative Emission Canister Purge Solenoid Valve (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BU	(1) 5293	(1) Powertrain Main Relay Fused Supply Voltage 4	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / BU	(2) 428	(2) EVAP Canister Purge Solenoid Control	(2) I	(2) —

Q12 Evaporative Emission Canister Purge Solenoid Valve (L3B)



2717066

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010337
- Service Connector: 13587326
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

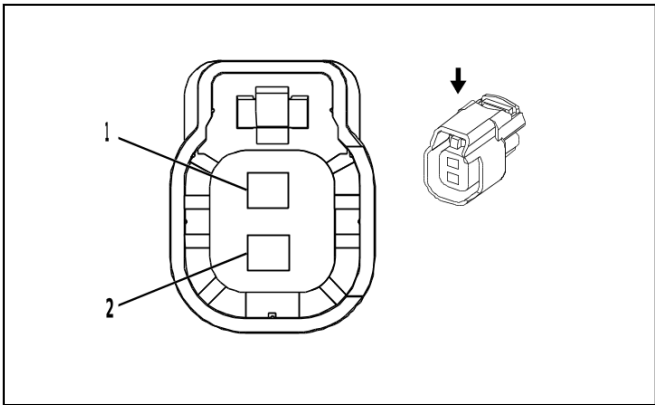
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q12 Evaporative Emission Canister Purge Solenoid Valve (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BU	(1) 5293	(1) Powertrain Main Relay Fused Supply Voltage 4	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / BU	(2) 428	(2) EVAP Canister Purge Solenoid Control	(2) I	(2) —

Q13 Evaporative Emission Canister Vent Solenoid Valve (FHS)



2422378

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 34062-0028
- Service Connector: 13579002
- Description: 2-Way F 1.5 Series, Sealed(BK)

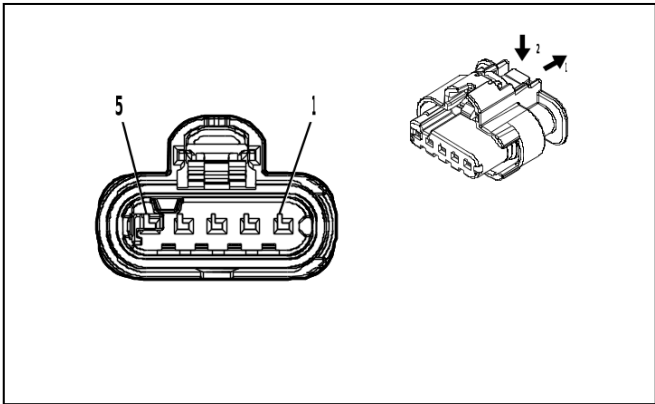
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

Q13 Evaporative Emission Canister Vent Solenoid Valve (FHS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 1310	(1) EVAP Vent Solenoid Valve Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) RD / WH	(2) 3440	(2) Battery Positive Voltage	(2) I	(2) —

Q14A Exhaust Gas Recirculation Valve 1



4997783

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296697-1
- Service Connector: 19371195
- Description: 5-Way F 1.2 MCON-CB Series, Sealed(BK)

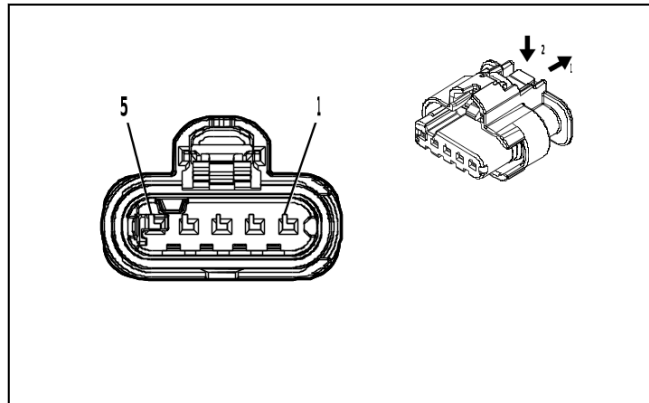
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q14A Exhaust Gas Recirculation Valve 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / RD	(1) 460	(1) Engine Control Sensors 5 Volt Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / WH	(2) 5763	(2) Exhaust Gas Recirculation Position Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / YE	(3) 548	(3) Engine Control Sensors Low Reference 1	(3) I	(3) —
(4) 4	(4) 0.75	(4) WH / VT	(4) 5764	(4) Exhaust Gas Recirculation Valve High Control	(4) I	(4) —
(5) 5	(5) 0.75	(5) VT / BK	(5) 5746	(5) Exhaust Gas Recirculation Valve Low Control	(5) I	(5) —

Q14B Exhaust Gas Recirculation Valve 2



4997783

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296697-1
- Service Connector: 19371195
- Description: 5-Way F 1.2 MCON-CB Series, Sealed(BK)

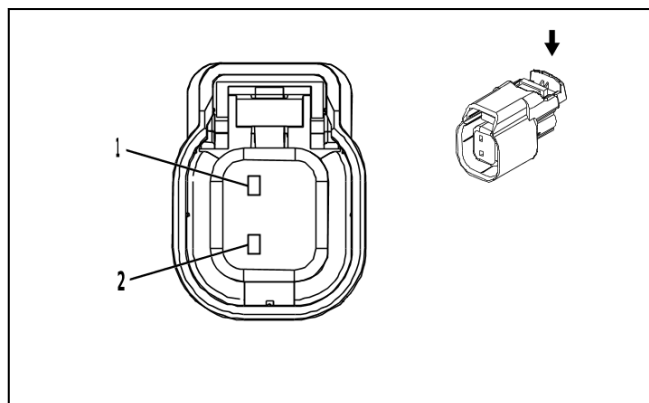
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q14B Exhaust Gas Recirculation Valve 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / YE	(1) 548	(1) Engine Control Sensors Low Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU / GN	(2) 4012	(2) Exhaust Gas Recirculation 2 Valve Position Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / RD	(3) 460	(3) Engine Control Sensors 5 Volt Reference 1	(3) I	(3) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(4) 4	(4) 0.75	(4) BU / WH	(4) 4014	(4) Exhaust Gas Recirculation 2 Valve Open Control	(4) I	(4) —
(5) 5	(5) 0.75	(5) BU / BN	(5) 4013	(5) Exhaust Gas Recirculation 2 Valve Close Control	(5) I	(5) —

Q17A Fuel Injector 1 (L3B)

2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 34062-4008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

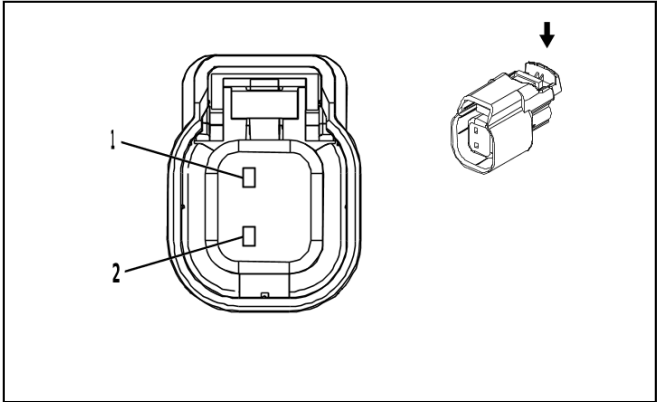
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

Q17A Fuel Injector 1 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.8	(1) BN	(1) 4801	(1) Direct Fuel Injector High Voltage Control Cylinder 1	(1) I	(1) —
(2) 2	(2) 0.8	(2) BN / WH	(2) 4901	(2) Direct Fuel Injector High Voltage Supply Cylinder 1	(2) I	(2) —

Q17A Fuel Injector 1 (L84 / L87)



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Bank 1
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

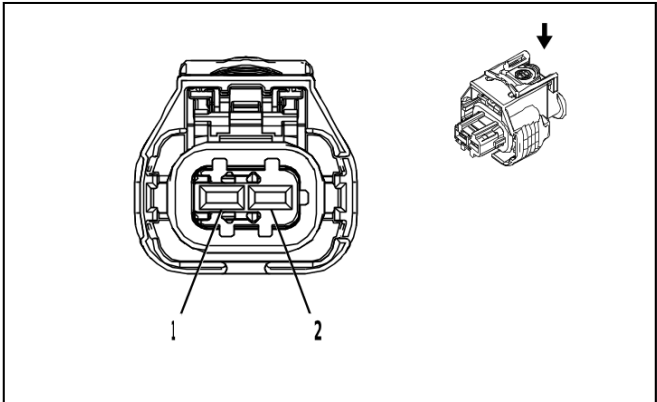
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

Q17A Fuel Injector 1 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / WH	(1) 4901	(1) Direct Fuel Injector High Voltage Supply Cylinder 1	(1) I	(1) —
(2) 2	(2) 0.75	(2) BN	(2) 4801	(2) Direct Fuel Injector High Voltage Control Cylinder 1	(2) I	(2) —

Q17A Fuel Injector 1 (LZ0)



2845578

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 1 928 405 715
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 Series, Sealed(BK)

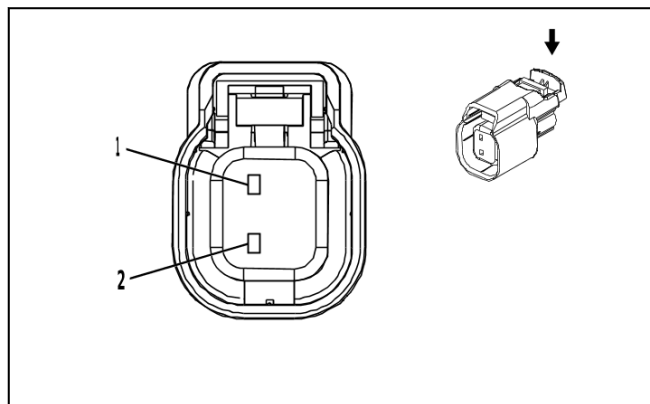
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

Q17A Fuel Injector 1 (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) BN / WH	(1) 4901	(1) Direct Fuel Injector High Voltage Supply Cylinder 1	(1) I	(1) —
(2) 2	(2) 1.5	(2) BN	(2) 4801	(2) Direct Fuel Injector High Voltage Control Cylinder 1	(2) I	(2) —

Q17B Fuel Injector 2 (L3B)



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 34062-4008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

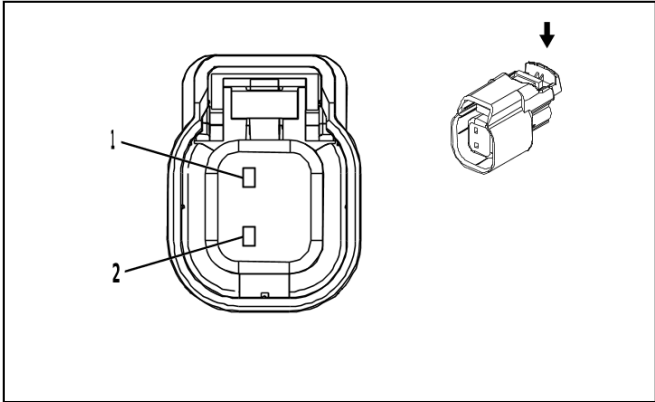
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

Q17B Fuel Injector 2 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.8	(1) BU	(1) 4802	(1) Direct Fuel Injector High Voltage Control Cylinder 2	(1) I	(1) —
(2) 2	(2) 0.8	(2) BU / GY	(2) 4902	(2) Direct Fuel Injector High Voltage Supply Cylinder 2	(2) I	(2) —

Q17B Fuel Injector 2 (L84 / L87)



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Bank 2
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

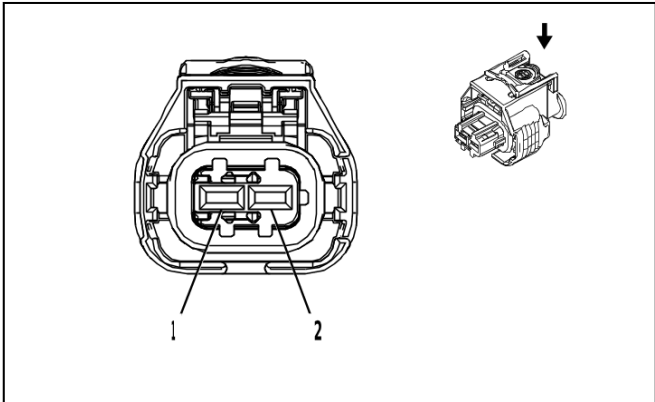
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

Q17B Fuel Injector 2 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / GY	(1) 4902	(1) Direct Fuel Injector High Voltage Supply Cylinder 2	(1) I	(1) —
(2) 2	(2) 0.75	(2) BU	(2) 4802	(2) Direct Fuel Injector High Voltage Control Cylinder 2	(2) I	(2) —

Q17B Fuel Injector 2 (LZ0)



2845578

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 1 928 405 715
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 Series, Sealed(BK)

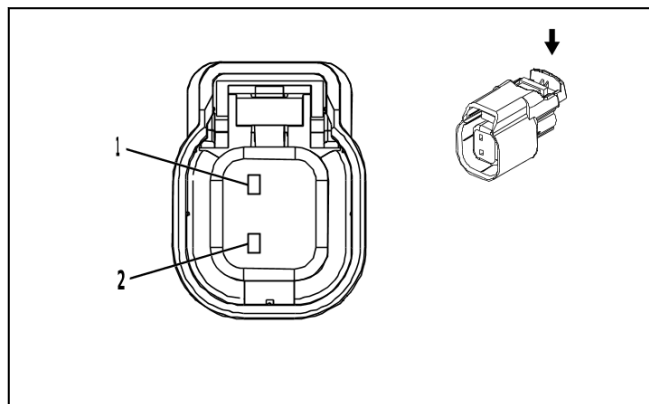
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

Q17B Fuel Injector 2 (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) BU / GY	(1) 4902	(1) Direct Fuel Injector High Voltage Supply Cylinder 2	(1) I	(1) —
(2) 2	(2) 1.5	(2) BU	(2) 4802	(2) Direct Fuel Injector High Voltage Control Cylinder 2	(2) I	(2) —

Q17C Fuel Injector 3 (L3B)



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 34062-4008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

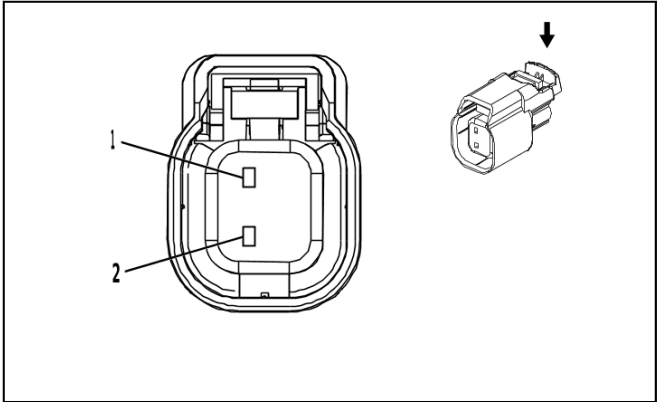
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

Q17C Fuel Injector 3 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.8	(1) GN	(1) 4803	(1) Direct Fuel Injector High Voltage Control Cylinder 3	(1) I	(1) —
(2) 2	(2) 0.8	(2) GN / GY	(2) 4903	(2) Direct Fuel Injector High Voltage Supply Cylinder 3	(2) I	(2) —

Q17C Fuel Injector 3 (L84 / L87)



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Bank 1
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

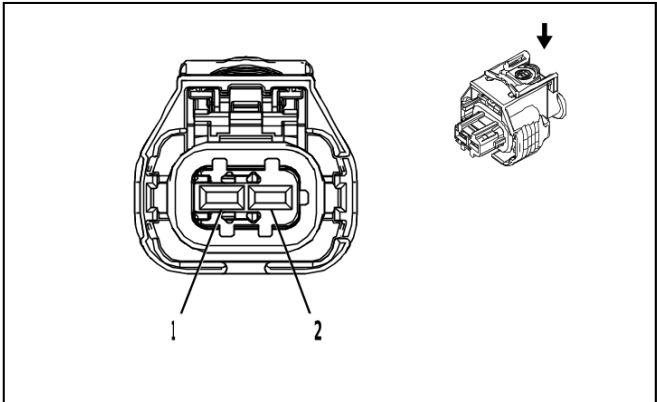
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

Q17C Fuel Injector 3 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GN / GY	(1) 4903	(1) Direct Fuel Injector High Voltage Supply Cylinder 3	(1) I	(1) —
(2) 2	(2) 0.75	(2) GN	(2) 4803	(2) Direct Fuel Injector High Voltage Control Cylinder 3	(2) I	(2) —

Q17C Fuel Injector 3 (LZ0)



2845578

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 1 928 405 715
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 Series, Sealed(BK)

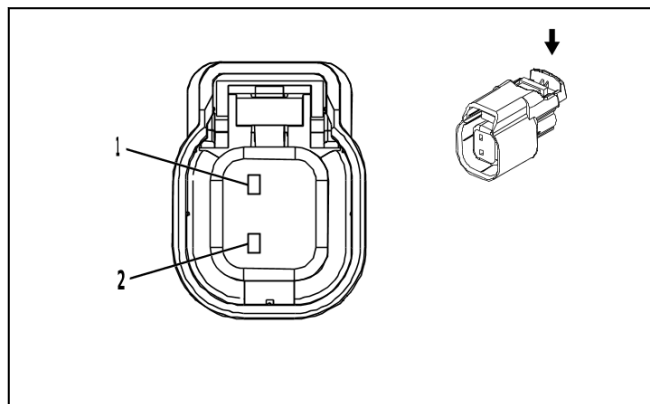
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

Q17C Fuel Injector 3 (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) GN / GY	(1) 4903	(1) Direct Fuel Injector High Voltage Supply Cylinder 3	(1) I	(1) —
(2) 2	(2) 1.5	(2) GN	(2) 4803	(2) Direct Fuel Injector High Voltage Control Cylinder 3	(2) I	(2) —

Q17D Fuel Injector 4 (L3B)



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 34062-4008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

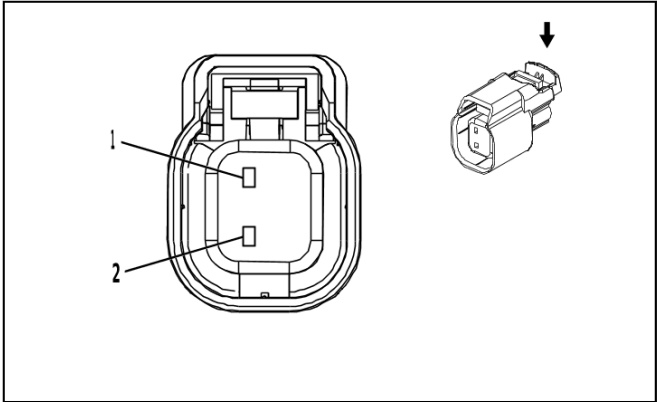
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

Q17D Fuel Injector 4 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.8	(1) GY / BU	(1) 4804	(1) Direct Fuel Injector High Voltage Control Cylinder 4	(1) I	(1) —
(2) 2	(2) 0.8	(2) BU / WH	(2) 4904	(2) Direct Fuel Injector High Voltage Supply Cylinder 4	(2) I	(2) —

Q17D Fuel Injector 4 (L84 / L87)



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Bank 2
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

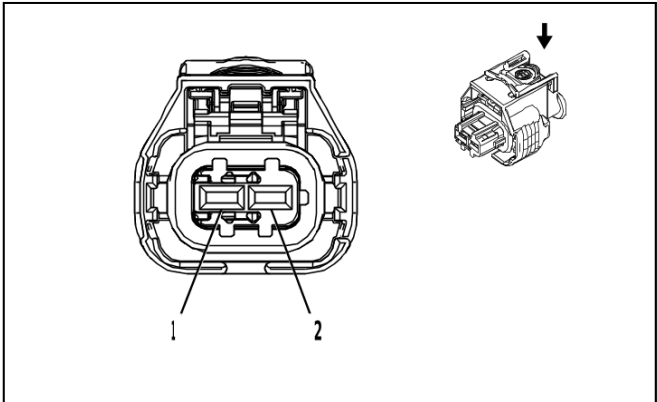
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

Q17D Fuel Injector 4 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / WH	(1) 4904	(1) Direct Fuel Injector High Voltage Supply Cylinder 4	(1) I	(1) —
(2) 2	(2) 0.75	(2) GY / BU	(2) 4804	(2) Direct Fuel Injector High Voltage Control Cylinder 4	(2) I	(2) —

Q17D Fuel Injector 4 (LZ0)



2845578

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 1 928 405 715
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 Series, Sealed(BK)

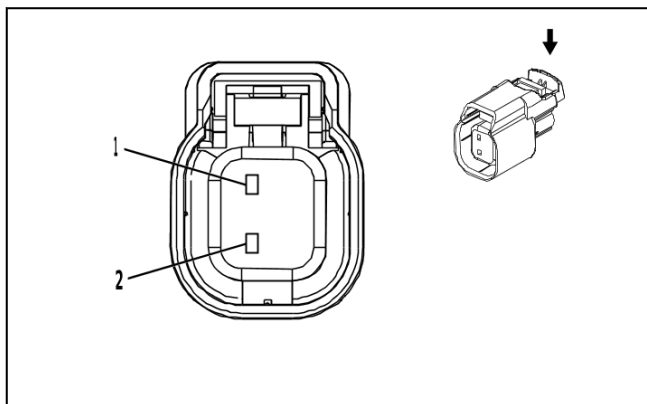
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

Q17D Fuel Injector 4 (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) BU / WH	(1) 4904	(1) Direct Fuel Injector High Voltage Supply Cylinder 4	(1) I	(1) —
(2) 2	(2) 1.5	(2) GY / BU	(2) 4804	(2) Direct Fuel Injector High Voltage Control Cylinder 4	(2) I	(2) —

Q17E Fuel Injector 5 (L84 / L87)



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Bank 1
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

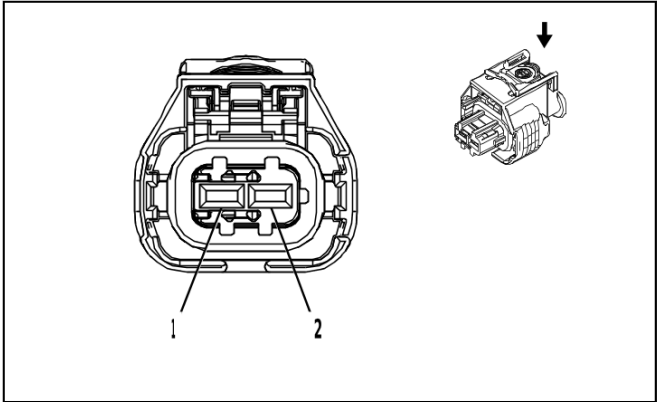
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

Q17E Fuel Injector 5 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GN / WH	(1) 4905	(1) Direct Fuel Injector High Voltage Supply Cylinder 5	(1) I	(1) —
(2) 2	(2) 0.75	(2) WH / GN	(2) 4805	(2) Direct Fuel Injector High Voltage Control Cylinder 5	(2) I	(2) —

Q17E Fuel Injector 5 (LZ0)



2845578

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 1 928 405 715
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 Series, Sealed(BK)

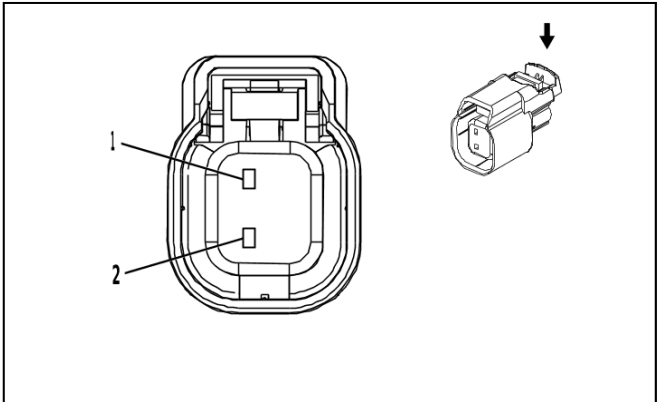
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

Q17E Fuel Injector 5 (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) GN / WH	(1) 4905	(1) Direct Fuel Injector High Voltage Supply Cylinder 5	(1) I	(1) —
(2) 2	(2) 1.5	(2) WH / GN	(2) 4805	(2) Direct Fuel Injector High Voltage Control Cylinder 5	(2) I	(2) —

Q17F Fuel Injector 6 (L84 / L87)



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Bank 2
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

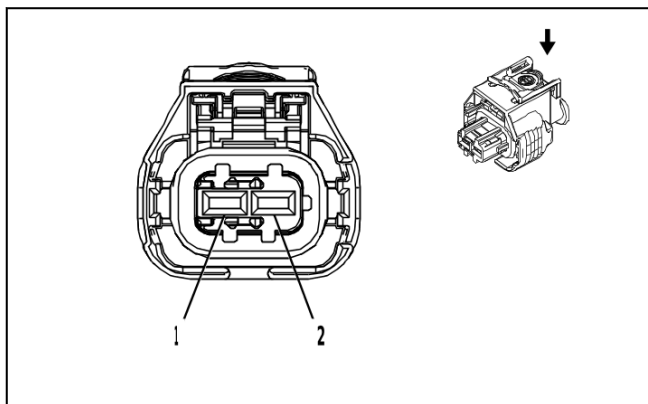
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

Q17F Fuel Injector 6 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) VT / GY	(1) 4906	(1) Direct Fuel Injector High Voltage Supply Cylinder 6	(1) I	(1) —
(2) 2	(2) 0.75	(2) VT / GN	(2) 4806	(2) Direct Fuel Injector High Voltage Control Cylinder 6	(2) I	(2) —

Q17F Fuel Injector 6 (LZ0)



2845578

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 1 928 405 715
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 Series, Sealed(BK)

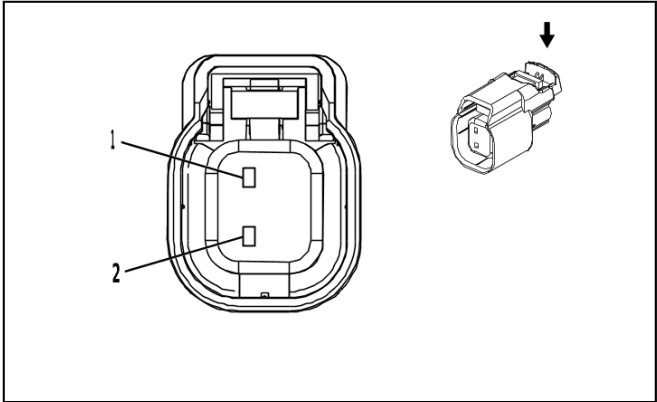
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

Q17F Fuel Injector 6 (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) VT / GY	(1) 4906	(1) Direct Fuel Injector High Voltage Supply Cylinder 6	(1) I	(1) —
(2) 2	(2) 1.5	(2) VT / GN	(2) 4806	(2) Direct Fuel Injector High Voltage Control Cylinder 6	(2) I	(2) —

Q17G Fuel Injector 7



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Bank 1
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

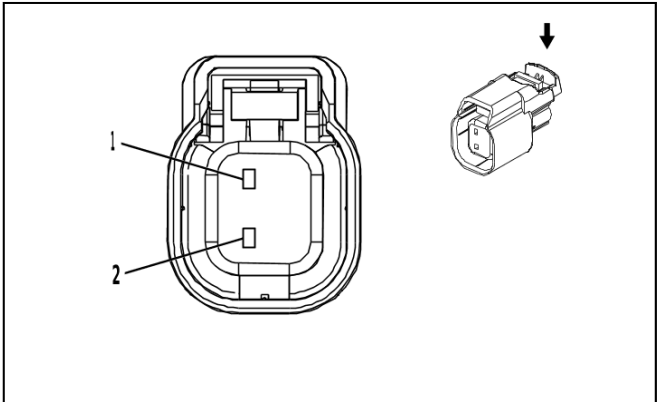
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

Q17G Fuel Injector 7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) WH / YE	(1) 4907	(1) Direct Fuel Injector High Voltage Supply Cylinder 7	(1) I	(1) —
(2) 2	(2) 0.75	(2) YE / GY	(2) 4807	(2) Direct Fuel Injector High Voltage Control Cylinder 7	(2) I	(2) —

Q17H Fuel Injector 8



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Bank 2
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

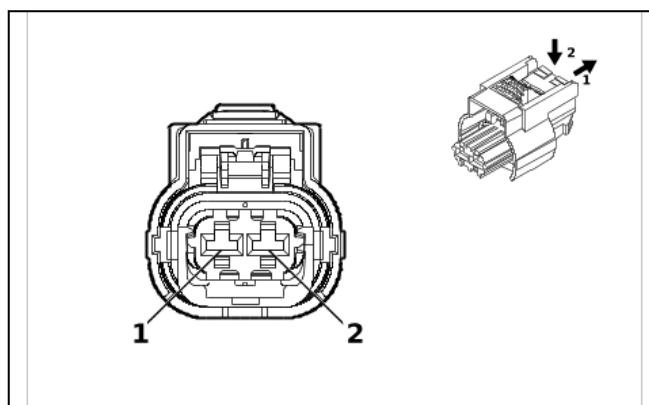
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

Q17H Fuel Injector 8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GY / WH	(1) 4908	(1) Direct Fuel Injector High Voltage Supply Cylinder 8	(1) I	(1) —
(2) 2	(2) 0.75	(2) GY	(2) 4808	(2) Direct Fuel Injector High Voltage Control Cylinder 8	(2) I	(2) —

Q18A Fuel Pressure Regulator 1



4992524

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35182447
- Service Connector: 84941154
- Description: 2-Way F 2.8 MCP Series, Sealed(BK)

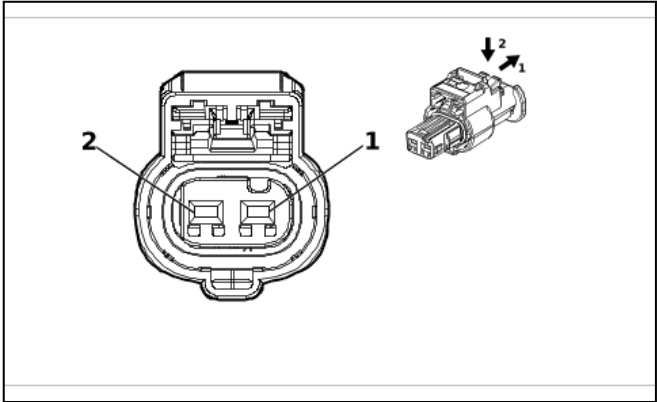
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

Q18A Fuel Pressure Regulator 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) YE / VT	(1) 7245	(1) High Pressure Fuel Pump Low Enable Signal	(1) I	(1) —
(2) 2	(2) 0.75	(2) GY / BN	(2) 7244	(2) High Pressure Fuel Pump High Side Control	(2) I	(2) —

Q18B Fuel Pressure Regulator 2



6055996

- Connector Part Information**
- Harness Type: Engine Wiring Harness
 - OEM Connector: 5-2297795-1
 - Service Connector: 85625525
 - Description: 2-Way F 1.2 HPF Series, Sealed(BK)

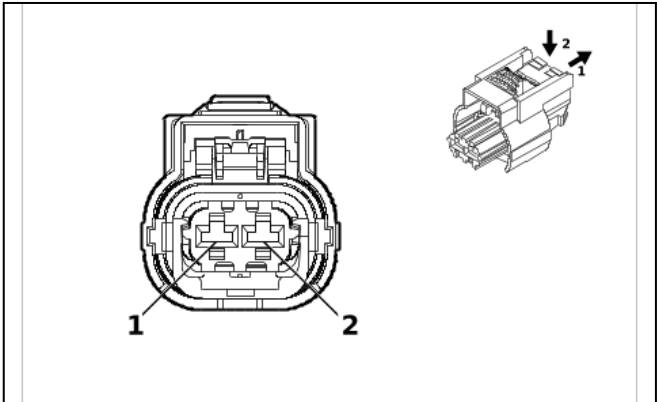
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q18B Fuel Pressure Regulator 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / YE	(1) 2834	(1) Fuel Rail Pressure Solenoid Valve Low Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU / WH	(2) 2530	(2) Fuel Rail Pressure Solenoid Valve Control	(2) I	(2) —

Q18C Fuel Pressure Regulator 3



4992524

- Connector Part Information**
- Harness Type: Engine Wiring Harness
 - OEM Connector: 35182447
 - Service Connector: 84941154
 - Description: 2-Way F 2.8 MCP Series, Sealed(BK)

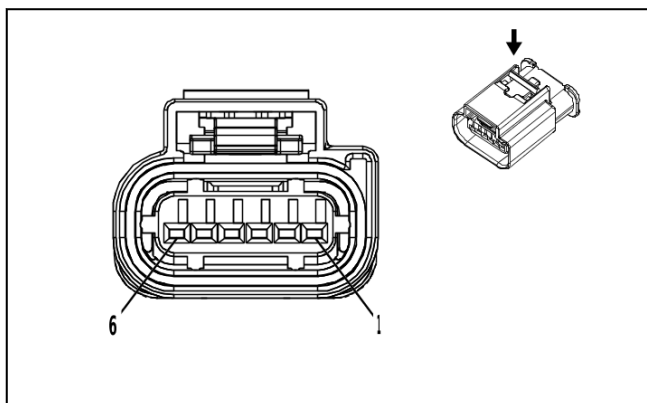
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

Q18C Fuel Pressure Regulator 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) YE / VT	(1) 2420	(1) Fuel High Pressure Pump Low Enable Signal	(1) I	(1) —
(2) 2	(2) 0.75	(2) GY / BN	(2) 2419	(2) Fuel High Pressure Pump High Side Supply Voltage	(2) I	(2) —

Q20 Intake Airflow Control Valve (LZ0)



3747579

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2272975-5
- Service Connector: 19352911
- Description: 6-Way F 1.2 MCON Series, Sealed(BK)

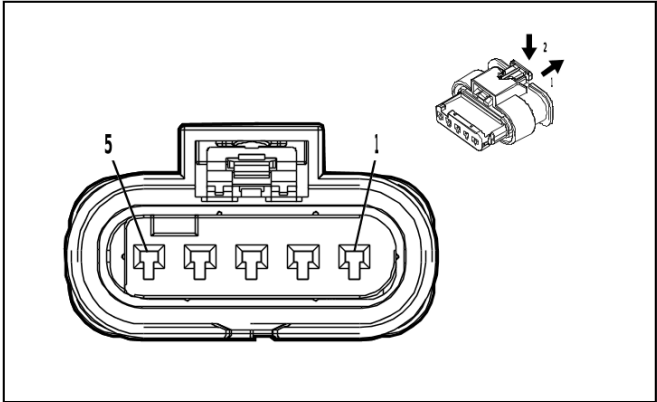
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q20 Intake Airflow Control Valve (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) YE	(1) 581	(1) Throttle Actuator Open Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) BN / WH	(2) 582	(2) Throttle Actuator Close Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / WH	(3) 3630	(3) Throttle Position Sensor SENT 1 Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / YE	(4) 548	(4) Engine Control Sensors Low Reference 1	(4) I	(4) —
(5) 5	(5) 0.5	(5) BU / RD	(5) 460	(5) Engine Control Sensors 5 Volt Reference 1	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

Q22 Intake Manifold Tuning Solenoid Valve



3338689

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-1718806-1
- Service Connector: 19119351
- Description: 5-Way F 1.2 MCON-LL Series, Sealed(BK)

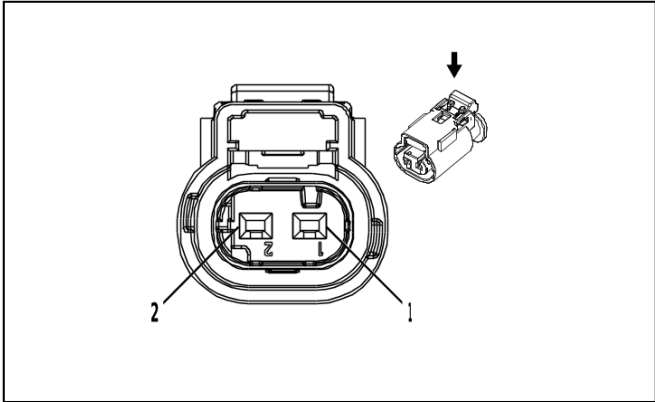
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q22 Intake Manifold Tuning Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / YE	(1) 548	(1) Engine Control Sensors Low Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / GY	(2) 7316	(2) Intake Manifold Runner Valve Actuator Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / RD	(3) 460	(3) Engine Control Sensors 5 Volt Reference 1	(3) I	(3) —
(4) 4	(4) 0.75	(4) BK / BU	(4) 1408	(4) Variable Swirl Valve Close Control	(4) I	(4) —
(5) 5	(5) 0.75	(5) BK / GN	(5) 1389	(5) Variable Swirl Valve Open Control	(5) I	(5) —

Q37LFB Front Shock Absorber Actuator - Left



2717066

Connector Part Information

- Harness Type: Electronic Suspension Strut Wiring Harness Extension Harness
- OEM Connector: 10010337
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

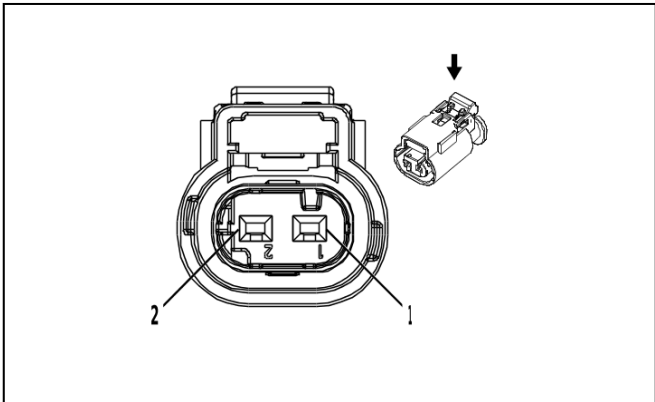
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q37LFB Front Shock Absorber Actuator - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / WH	(1) 1107	(1) Left Front Shock Absorber Actuator Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) GY	(2) 1113	(2) Left Front Shock Absorber Actuator Control	(2) I	(2) —

Q37LRB Rear Shock Absorber Actuator - Left (- Z45)



2717066

Connector Part Information

- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 10010337
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

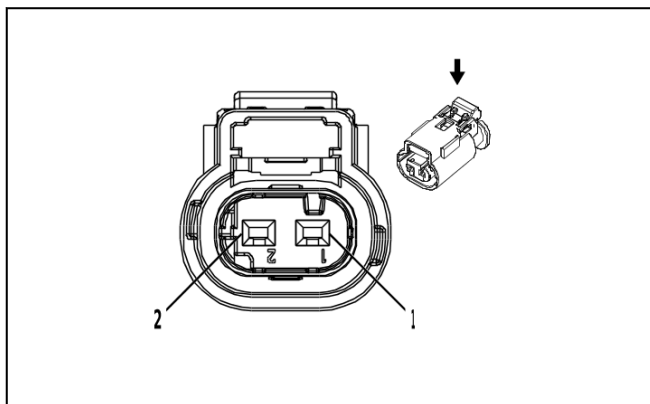
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q37LRB Rear Shock Absorber Actuator - Left (- Z45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / GY	(1) 1114	(1) Left Rear Shock Absorber Actuator Control	(1) I	(1) Z45
(2) 2	(2) 0.75	(2) GN / VT	(2) 1115	(2) Left Rear Shock Absorber Actuator Control	(2) I	(2) Z45

Q37RFB Front Shock Absorber Actuator - Right (- Z45)



2717066

Connector Part Information

- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 10010337
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

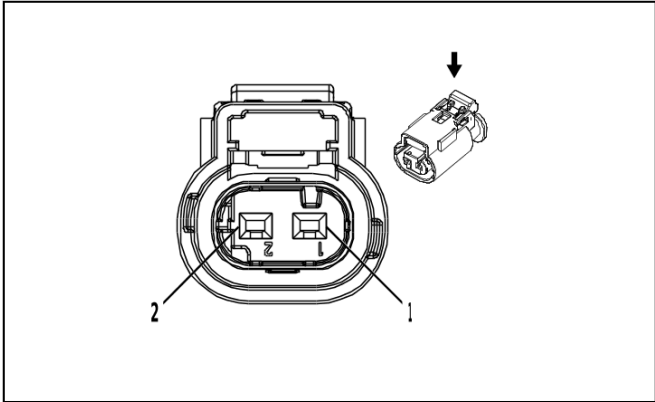
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q37RFB Front Shock Absorber Actuator - Right (- Z45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / GN	(1) 1118	(1) Right Rear Shock Absorber Actuator Control	(1) I	(1) Z45
(2) 2	(2) 0.75	(2) GN / GY	(2) 1119	(2) Right Rear Shock Absorber Actuator Control	(2) I	(2) Z45

Q37RFB Front Shock Absorber Actuator - Right (Z75)



2717066

Connector Part Information

- Harness Type: Electronic Suspension Strut Wiring Harness Extension Harness
- OEM Connector: 10010337
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

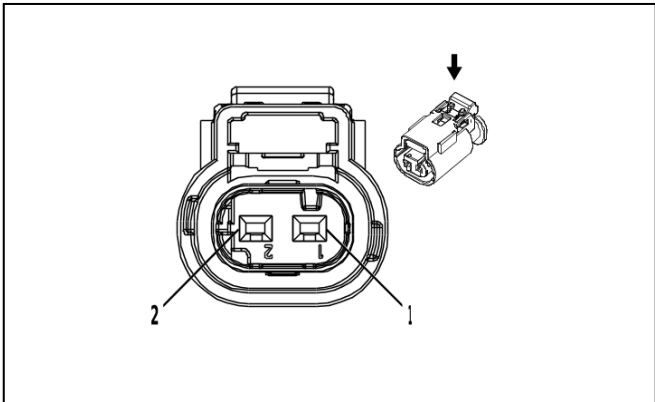
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q37RFB Front Shock Absorber Actuator - Right (Z75)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / WH	(1) 1116	(1) Right Front Shock Absorber Actuator Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) GY	(2) 1117	(2) Right Front Shock Absorber Actuator Control	(2) I	(2) —

Q37RRB Rear Shock Absorber Actuator - Right (Z45)



2717066

Connector Part Information

- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 13503566
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

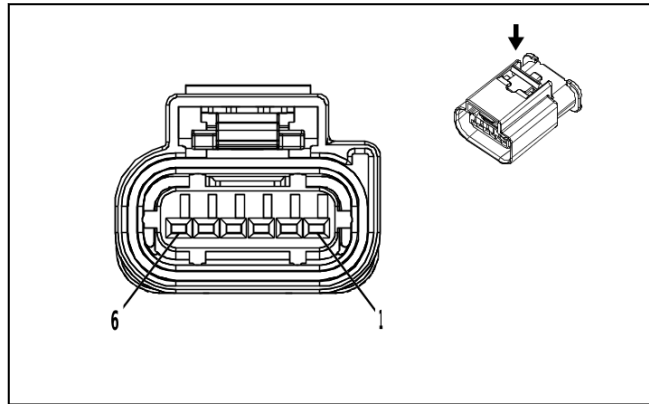
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

Q37RRB Rear Shock Absorber Actuator - Right (Z45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / GN	(1) 1118	(1) Right Rear Shock Absorber Actuator Control	(1) I	(1) Z45
(2) 2	(2) 0.75	(2) GN / GY	(2) 1119	(2) Right Rear Shock Absorber Actuator Control	(2) I	(2) Z45

Q38 Throttle Body



3747579

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2272975-5
- Service Connector: 19352911
- Description: 6-Way F 1.2 MCON Series, Sealed(BK)

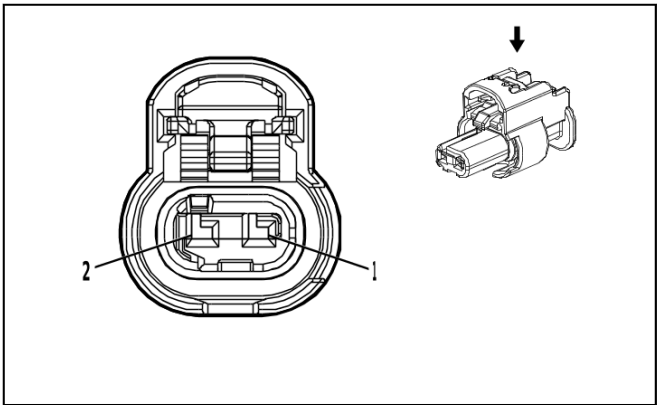
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q38 Throttle Body

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE	(1) 581	(1) Throttle Actuator Open Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / WH	(2) 582	(2) Throttle Actuator Close Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / WH	(3) 3630	(3) Throttle Position Sensor SENT 1 Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / BN	(4) 2752	(4) Throttle Position Sensor Low Reference	(4) I	(4) —
(5) 5	(5) 0.5	(5) BN / RD	(5) 2701	(5) Throttle Position Sensor 5V Reference	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

Q40 Turbocharger Bypass Valve Solenoid



4690744

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296694-3
- Service Connector: 19366871
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

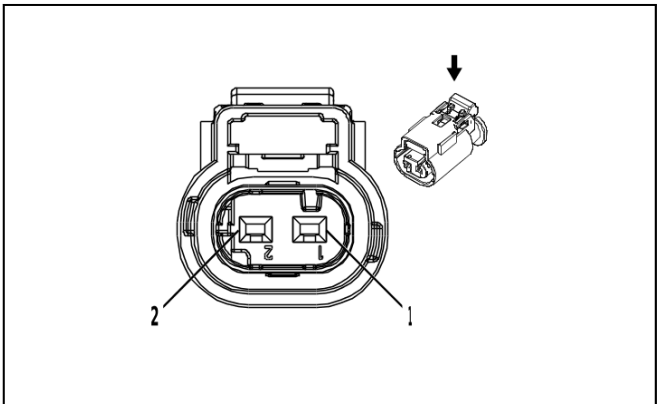
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q40 Turbocharger Bypass Valve Solenoid

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BU	(1) 5293	(1) Powertrain Main Relay Fused Supply Voltage 4	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN	(2) 3060	(2) Turbocharger Bypass Solenoid Valve Control Bank 1	(2) I	(2) —

Q44 Engine Oil Pressure Control Solenoid Valve (L87)



2717066

Connector Part Information

- Harness Type: Camshaft Position Sensor Wire
- OEM Connector: 10010337
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

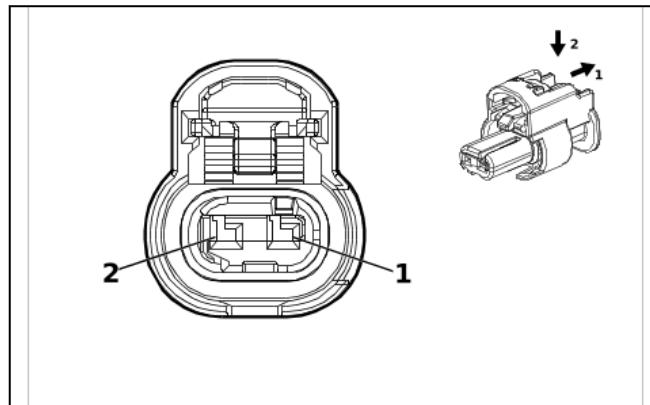
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q44 Engine Oil Pressure Control Solenoid Valve (L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BU	(1) 5293	(1) Powertrain Main Relay Fused Supply Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 179	(2) Engine Oil Pump Control	(2) I	(2) —

Q44 Engine Oil Pressure Control Solenoid Valve (LZ0)



4036662

Connector Part Information

- Harness Type: Oil Pump Flow Control Solenoid Valve Harness
- OEM Connector: 1-2296704-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

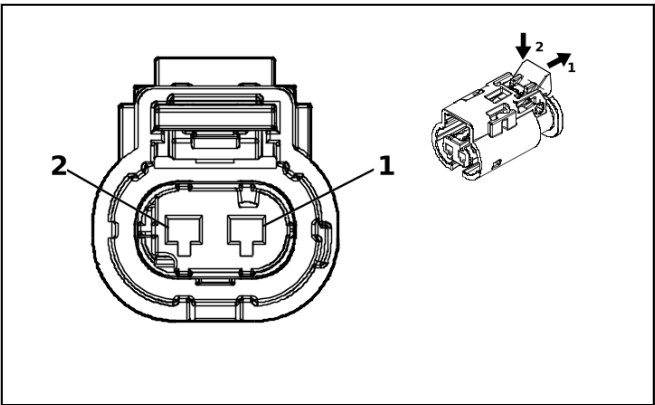
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q44 Engine Oil Pressure Control Solenoid Valve (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / BN	(1) 106	(1) Oil Pump Motor Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 179	(2) Engine Oil Pump Control	(2) I	(2) —

Q44 Engine Oil Pressure Control Solenoid Valve (L3B)



5245486

Connector Part Information

- Harness Type: Oil Pump Flow Control Solenoid Valve Harness
- OEM Connector: 10142540
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MLK Series, Sealed(BK)

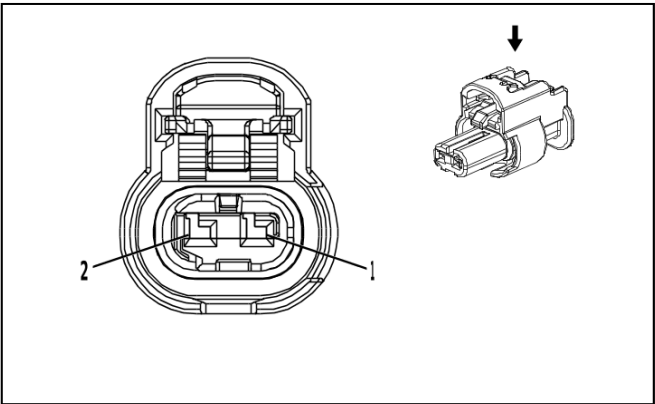
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

Q44 Engine Oil Pressure Control Solenoid Valve (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / BN	(1) 106	(1) Oil Pump Motor Control	(1) I	(1) L3B
(2) 2	(2) 0.5	(2) BU	(2) 179	(2) Engine Oil Pump Control	(2) I	(2) L3B

Q46 Air Conditioning Compressor Solenoid Valve (L3B)



4335931

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296694-2
- Service Connector: 19366843
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

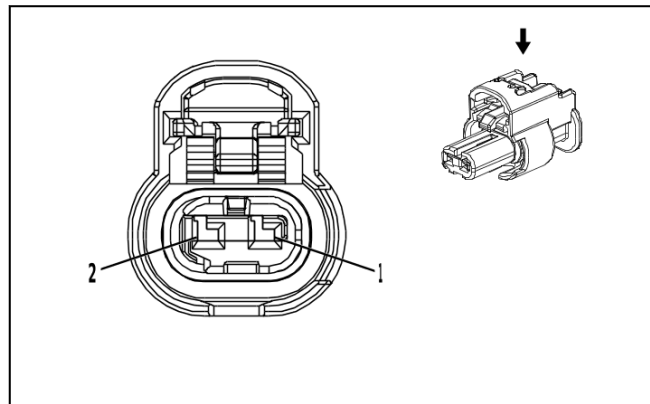
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q46 Air Conditioning Compressor Solenoid Valve (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / YE	(1) 7574	(1) Air Conditioning Compressor Solenoid Valve Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) BU / BN	(2) 7573	(2) Air Conditioning Compressor Solenoid Valve Control	(2) I	(2) —

Q46 Air Conditioning Compressor Solenoid Valve (L84 / L87)



4335931

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296694-2
- Service Connector: 19366843
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

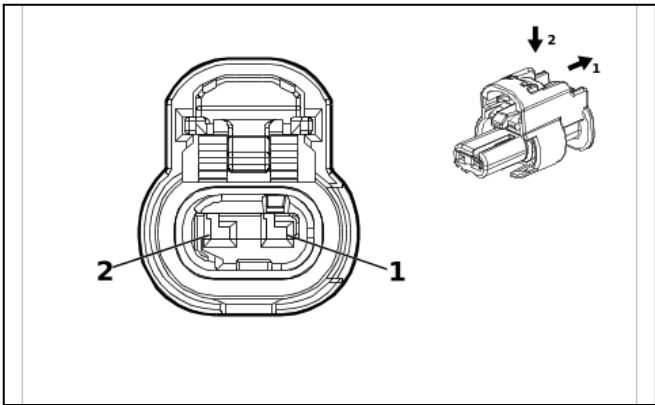
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q46 Air Conditioning Compressor Solenoid Valve (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / YE	(1) 7574	(1) Air Conditioning Compressor Solenoid Valve Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) BU / BN	(2) 7573	(2) Air Conditioning Compressor Solenoid Valve Control	(2) I	(2) —

Q46 Air Conditioning Compressor Solenoid Valve (LZ0)



4649903

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296694-1
- Service Connector: 85761014
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

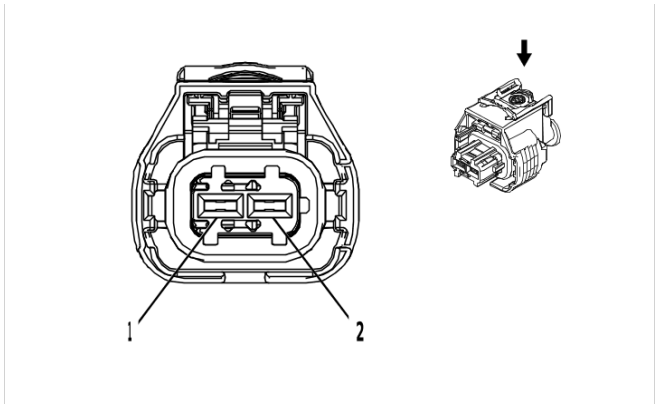
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q46 Air Conditioning Compressor Solenoid Valve (LZ0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 450	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.75	(2) BN / GN	(2) 59	(2) Air Conditioning Compressor Clutch Control	(2) I	(2) —

Q61 Reductant Fluid Injector



2577394

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1 928 405 714
- Service Connector: 13384371
- Description: 2-Way F 2.8 Series, Sealed(BK)

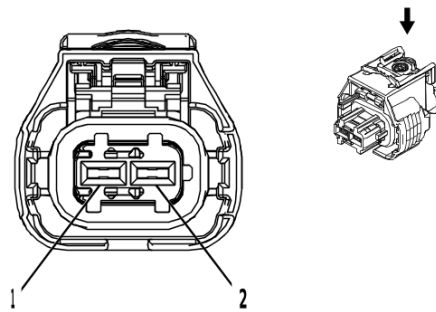
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

Q61 Reductant Fluid Injector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / WH	(1) 3100	(1) Diesel Exhaust Fluid Dosing Valve Low Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) BN	(2) 3099	(2) Diesel Exhaust Fluid Dosing Valve High Control	(2) I	(2) —

Q61B Reductant Fluid Injector 2



2577394

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1 928 405 714
- Service Connector: 13384371
- Description: 2-Way F 2.8 Series, Sealed(BK)

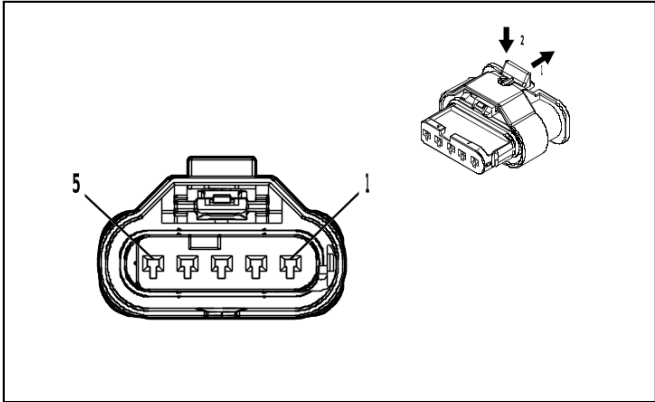
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

Q61B Reductant Fluid Injector 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU	(1) 11615	(1) Diesel Exhaust Fluid Dosing Valve High Control 2	(1) I	(1) —
(2) 2	(2) 0.75	(2) BU / YE	(2) 11616	(2) Diesel Exhaust Fluid Dosing Valve Low Control 2	(2) I	(2) —

Q74 Engine Coolant Bypass Valve



4994456

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2-2236898-5
- Service Connector: 19371191
- Description: 5-Way F 1.2 MCON-LL Series, Sealed(NA)

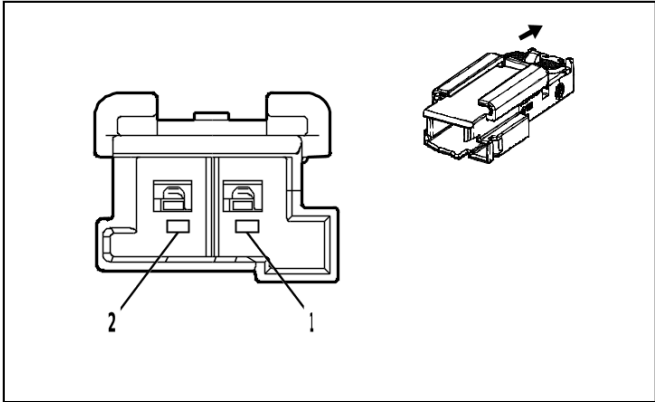
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q74 Engine Coolant Bypass Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU	(1) 2976	(1) Coolant Diverter Valve Actuator Control Open	(1) I	(1) —
(2) 2	(2) 0.75	(2) BU / BN	(2) 2977	(2) Coolant Diverter Valve Actuator Control Close	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH / RD	(3) 480	(3) Engine Control Vehicle Sensors 5 Volt Reference 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU / GY	(4) 2978	(4) Coolant Diverter Valve Position Signal	(4) I	(4) —
(5) 5	(5) 0.5	(5) BK / GN	(5) 580	(5) Engine Control Sensors Low Reference 2	(5) I	(5) —

Q77A Transmission Control Solenoid Valve 1



4663490

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 2272160-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(NA)

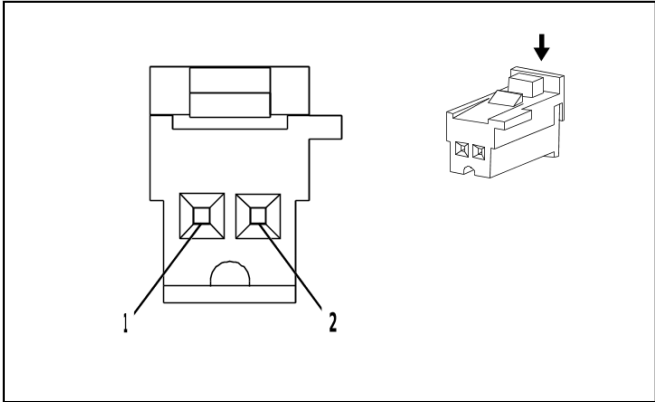
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

Q77A Transmission Control Solenoid Valve 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) BN (1) WH	(1) 6400 (1) 6388	(1) Clutch Solenoid Valve A Control (1) Transmission High Side Driver 2 Control	(1) I (1) I	(1) MFC (1) MHS / MHT / MI2 / MQB / MQC
(2) 2	(2) 0.5 (2) 0.5	(2) GY / BN (2) BU / GN	(2) 6388 (2) 6404	(2) Transmission High Side Driver 2 Control (2) Clutch Solenoid Valve E Control	(2) I (2) I	(2) MFC (2) MHS / MQC

Q77B Transmission Control Solenoid Valve 2



4008644

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 13941672
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 MTS Series(GY)

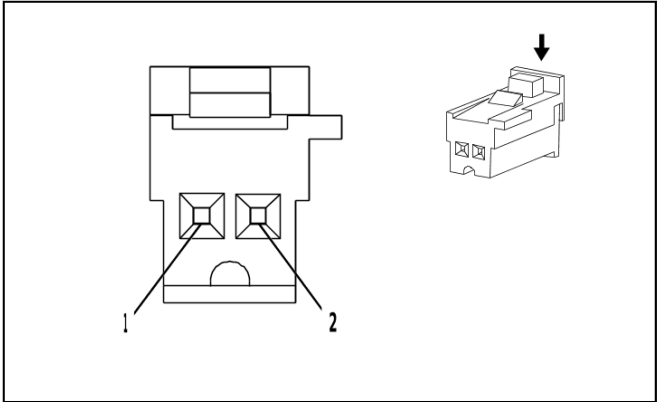
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required
II	Not required	No Tool Required	No Tool Required

Q77B Transmission Control Solenoid Valve 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU	(1) 6401	(1) Clutch Solenoid Valve B Control	(1) I	(1) MFC
	(1) 0.5	(1) WH	(1) 6388	(1) Transmission High Side Driver 2 Control	(1) II	(1) MHS / MQC
(2) 2	(2) 0.5	(2) GY / BN	(2) 6388	(2) Transmission High Side Driver 2 Control	(2) I	(2) MFC
	(2) 0.5	(2) GN / BN	(2) 6403	(2) Clutch Solenoid Valve D Control	(2) II	(2) MHS / MQC

Q77C Transmission Control Solenoid Valve 3



4008644

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 13941672
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 MTS Series(GY)

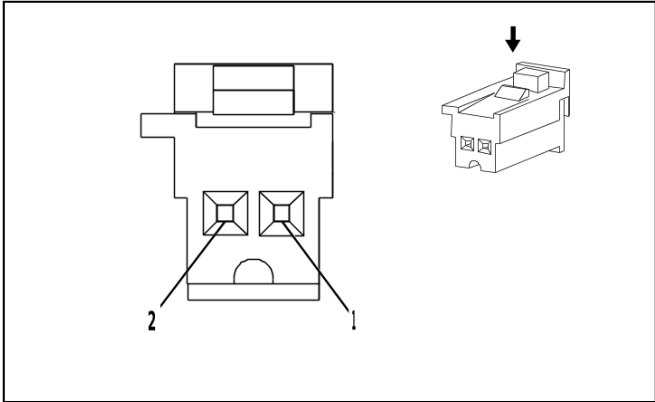
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required
II	Not required	No Tool Required	No Tool Required

Q77C Transmission Control Solenoid Valve 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY	(1) 6402	(1) Clutch Solenoid Valve C Control	(1) I	(1) MFC
	(1) 0.5	(1) WH	(1) 6388	(1) Transmission High Side Driver 2 Control	(1) II	(1) MHS / MQC
(2) 2	(2) 0.5	(2) GY / BN	(2) 6388	(2) Transmission High Side Driver 2 Control	(2) I	(2) MFC
	(2) 0.5	(2) GY	(2) 6402	(2) Clutch Solenoid Valve C Control	(2) II	(2) MHS / MQC

Q77D Transmission Control Solenoid Valve 4



4051391

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 13956948
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 MTS Series(VT)

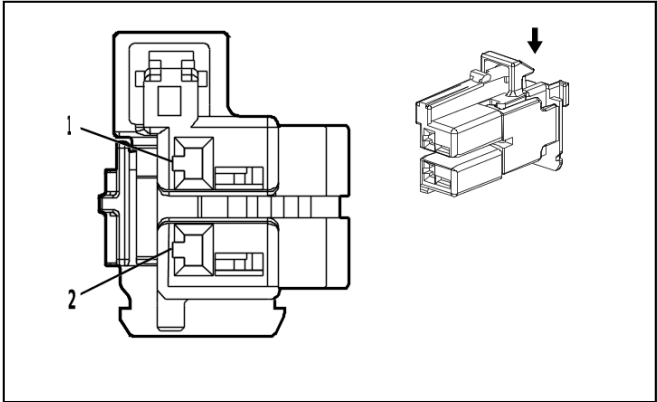
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required
II	Not required	No Tool Required	No Tool Required

Q77D Transmission Control Solenoid Valve 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 4508	(1) Transmission Clutch G Control	(1) I	(1) MFC
	(1) 0.5	(1) WH	(1) 6388	(1) Transmission High Side Driver 2 Control	(1) II	(1) MHS / MQC
(2) 2	(2) 0.5	(2) GN / GY	(2) 6387	(2) Transmission High Side Driver 1 Control	(2) I	(2) MFC
	(2) 0.5	(2) BN / WH	(2) 4509	(2) Transmission Clutch F Control	(2) II	(2) MHS / MQC

Q77E Transmission Control Solenoid Valve 5 (MHS / MQC)



4672650

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 2289523-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BN)

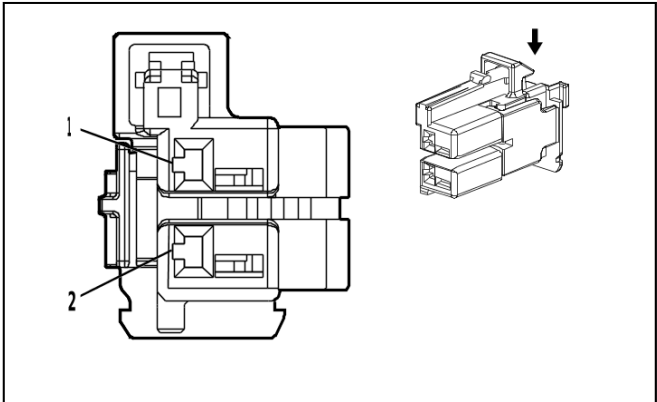
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q77E Transmission Control Solenoid Valve 5 (MHS / MQC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 6388	(1) Transmission High Side Driver 2 Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / VT	(2) 4507	(2) Transmission Clutch H Control	(2) I	(2) —

Q77E Transmission Control Solenoid Valve 5 (MHT / MI2 / MQB)



4672650

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 2289523-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BN)

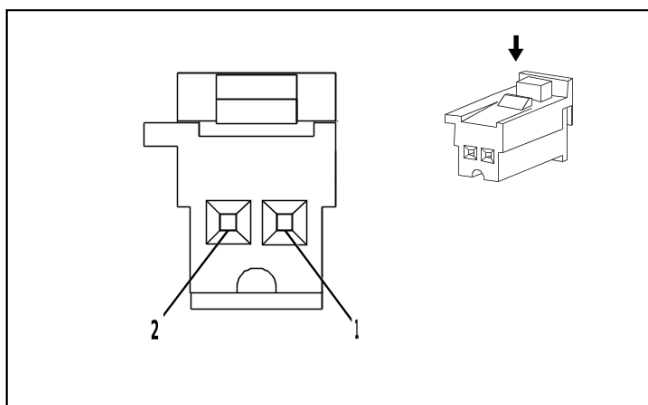
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q77E Transmission Control Solenoid Valve 5 (MHT / MI2 / MQB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 6388	(1) Transmission High Side Driver 2 Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / VT	(2) 4507	(2) Transmission Clutch H Control	(2) I	(2) —

Q77E Transmission Control Solenoid Valve 5 (MFC)



4051391

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 13956948
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 MTS Series(VT)

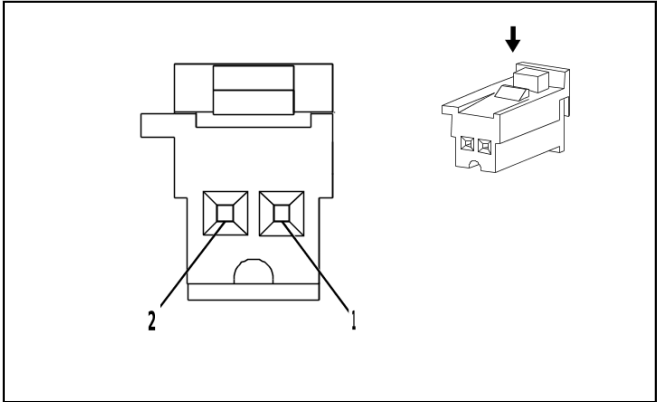
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

Q77E Transmission Control Solenoid Valve 5 (MFC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / BU	(1) 4507	(1) Transmission Clutch H Control	(1) I	(1) MFC
(2) 2	(2) 0.5	(2) GN / GY	(2) 6387	(2) Transmission High Side Driver 1 Control	(2) I	(2) MFC

Q77F Transmission Control Solenoid Valve 6



4051391

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 13956948
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 MTS Series(VT)

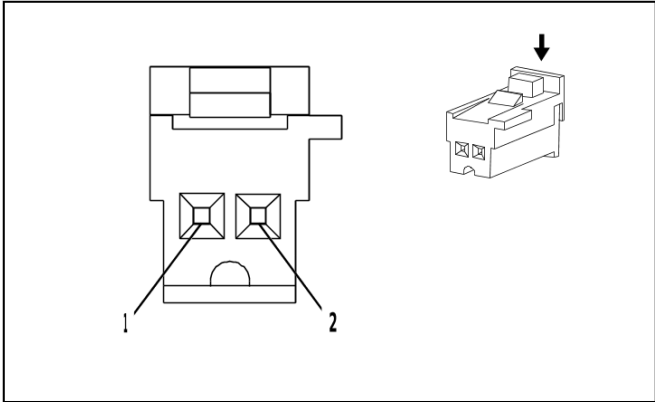
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required
II	Not required	No Tool Required	No Tool Required

Q77F Transmission Control Solenoid Valve 6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) GY / GN (1) WH	(1) 1530 (1) 6388	(1) Transmission Line Pressure Control Solenoid Valve Control (1) Transmission High Side Driver 2 Control	(1) II (1) II	(1) MFC (1) MHS / MHT / MI2 / MQB / MQC
(2) 2	(2) 0.5 (2) 0.5	(2) GY / BN (2) BU / GY	(2) 6388 (2) 4508	(2) Transmission High Side Driver 2 Control (2) Transmission Clutch G Control	(2) I (2) II	(2) MFC (2) MHS / MHT / MI2 / MQB / MQC

Q77G Transmission Control Solenoid Valve 7



4008644

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 13941672
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 MTS Series(GY)

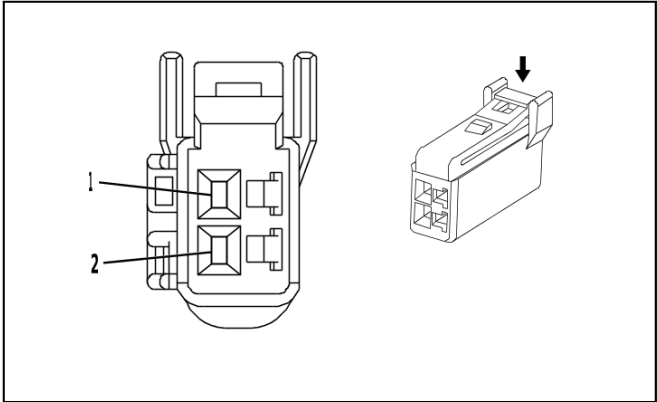
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

Q77G Transmission Control Solenoid Valve 7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) YE / BN (1) BN	(1) 422 (1) 6387	(1) Torque Converter Clutch Solenoid Valve Control (1) Transmission High Side Driver 1 Control	(1) I (1) I	(1) MFC (1) MHS / MHT / MI2 / MQB / MQC
(2) 2	(2) 0.5 (2) 0.5	(2) GY / BN (2) GN / OG	(2) 6388 (2) 1530	(2) Transmission High Side Driver 2 Control (2) Transmission Line Pressure Control Solenoid Valve Control	(2) I (2) I	(2) MFC (2) MHS / MHT / MI2 / MQB / MQC

Q77H Transmission Control Solenoid Valve 8



4051682

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 7287-0122
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 040 III Series(NA)

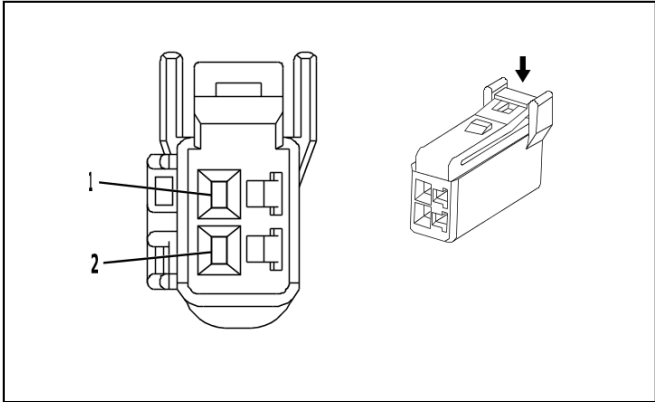
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	No Tool Required	No Tool Required

Q77H Transmission Control Solenoid Valve 8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) GN / GY (1) BN	(1) 6387 (1) 6387	(1) Transmission High Side Driver 1 Control (1) Transmission High Side Driver 1 Control	(1) I (1) II	(1) MFC (1) MHS / MHT / MI2 / MQB / MQC
(2) 2	(2) 0.5 (2) 0.5	(2) GN / WH (2) GY / BN	(2) 6380 (2) 422	(2) Torque Converter Clutch Enable Solenoid Valve A Control (2) Torque Converter Clutch Solenoid Valve Control	(2) I (2) II	(2) MFC (2) MHS / MHT / MI2 / MQB / MQC

Q77J Transmission Control Solenoid Valve 9



4051682

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 7287-0122
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 040 III Series(NA)

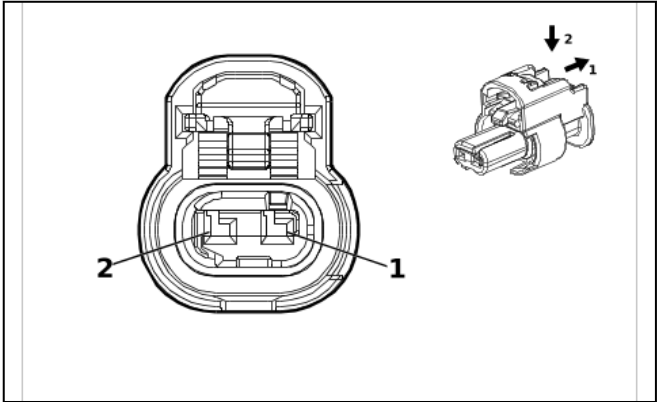
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	No Tool Required	No Tool Required

Q77J Transmission Control Solenoid Valve 9

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) GY / BN (1) WH	(1) 6388 (1) 6388	(1) Transmission High Side Driver 2 Control (1) Transmission High Side Driver 2 Control	(1) I (1) II	(1) MFC (1) MHS / MHT / MI2 / MQB / MQC
(2) 2	(2) 0.5 (2) 0.5	(2) YE / BN (2) VT	(2) 6210 (2) 7819	(2) Torque Converter Clutch Enable Solenoid Valve B Control (2) Default Disable Solenoid Control	(2) I (2) II	(2) MFC (2) MHS / MHT / MI2 / MQB / MQC

Q83AA Valve Lifter Oil Solenoid Valve - Cylinder 1 (L84 / L87)



4036662

- Connector Part Information**
- Harness Type: Valve Rocker Arm Oil Control Valve Harness
 - OEM Connector: 1-2296704-1
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

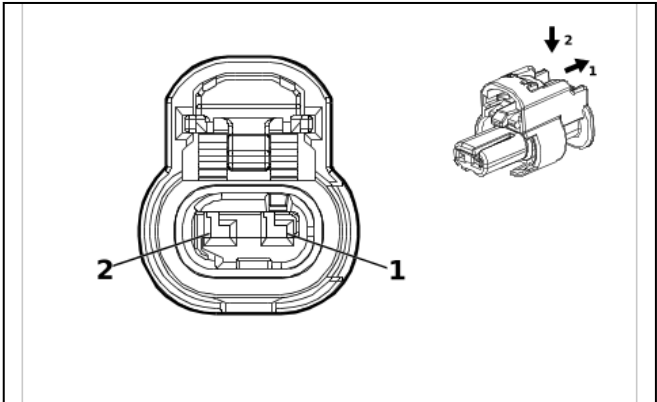
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q83AA Valve Lifter Oil Solenoid Valve - Cylinder 1 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / BU	(1) 2491	(1) Cylinder Shutoff Solenoid Enable Signal 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 5491	(2) Cylinder Deactivation Solenoid Valve Control	(2) I	(2) —

Q83AB Valve Lifter Oil Solenoid Valve - Cylinder 2 (L84 / L87)



4036662

- Connector Part Information**
- Harness Type: Valve Rocker Arm Oil Control Valve Harness
 - OEM Connector: 1-2296704-1
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

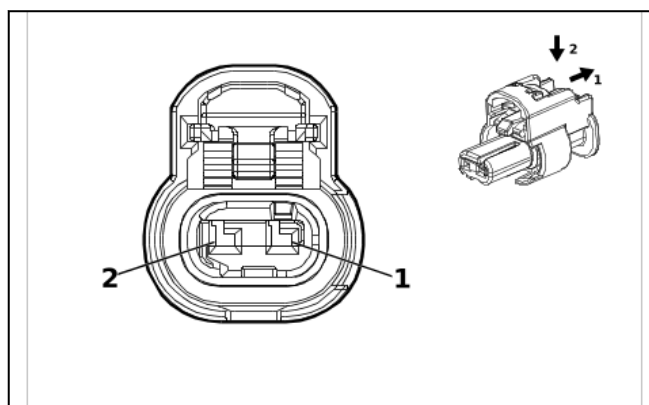
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q83AB Valve Lifter Oil Solenoid Valve - Cylinder 2 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / GN	(1) 2492	(1) Cylinder Shutoff Solenoid Enable Signal 2	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN	(2) 5492	(2) Cylinder Deactivation Solenoid Valve Control	(2) I	(2) —

Q83AC Valve Lifter Oil Solenoid Valve - Cylinder 3 (L84 / L87)



4036662

Connector Part Information

- Harness Type: Valve Rocker Arm Oil Control Valve Harness
- OEM Connector: 1-2296704-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

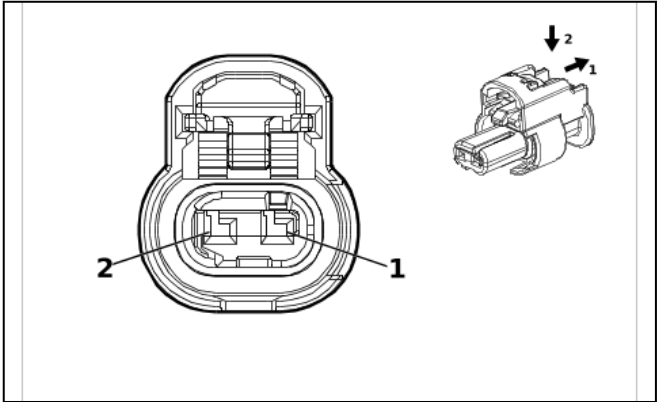
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q83AC Valve Lifter Oil Solenoid Valve - Cylinder 3 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / GY	(1) 2493	(1) Cylinder Shutoff Solenoid Enable Signal 3	(1) I	(1) —
(2) 2	(2) 0.5	(2) GY	(2) 5493	(2) Cylinder Deactivation Solenoid Valve Control	(2) I	(2) —

Q83AD Valve Lifter Oil Solenoid Valve - Cylinder 4 (L84 / L87)



4036662

- Connector Part Information**
- Harness Type: Valve Rocker Arm Oil Control Valve Harness
 - OEM Connector: 1-2296704-1
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

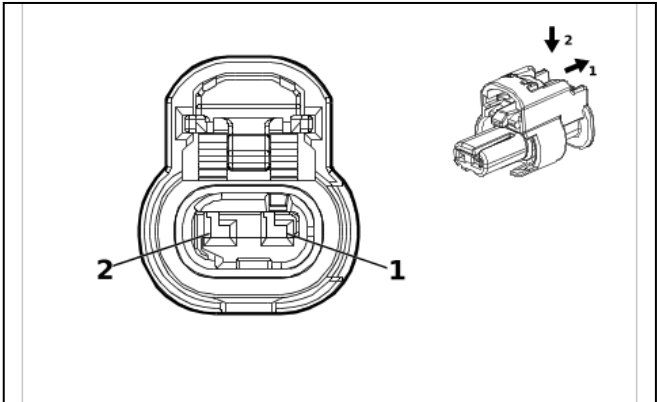
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q83AD Valve Lifter Oil Solenoid Valve - Cylinder 4 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / GN	(1) 2494	(1) Cylinder Shutoff Solenoid Enable Signal 4	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / BU	(2) 5494	(2) Cylinder Deactivation Solenoid Valve Control 4	(2) I	(2) —

Q83AE Valve Lifter Oil Solenoid Valve - Cylinder 5 (L84 / L87)



4036662

- Connector Part Information**
- Harness Type: Valve Rocker Arm Oil Control Valve Harness
 - OEM Connector: 1-2296704-1
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

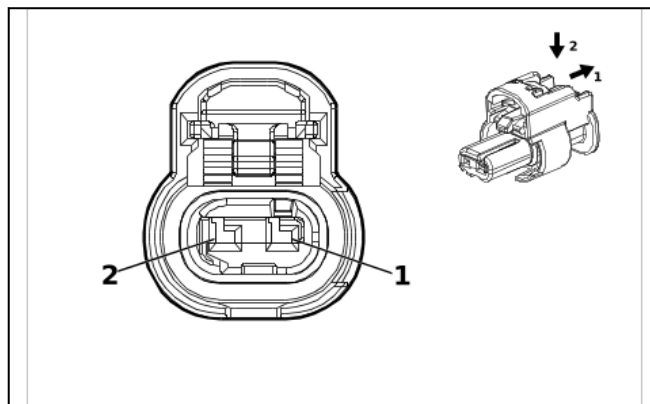
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q83AE Valve Lifter Oil Solenoid Valve - Cylinder 5 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / VT	(1) 2495	(1) Cylinder Shutoff Solenoid Enable Signal 5	(1) I	(1) —
(2) 2	(2) 0.5	(2) VT	(2) 5495	(2) Cylinder Deactivation Solenoid Valve Control 5	(2) I	(2) —

Q83AF Valve Lifter Oil Solenoid Valve - Cylinder 6 (L84 / L87)



4036662

Connector Part Information

- Harness Type: Valve Rocker Arm Oil Control Valve Harness
- OEM Connector: 1-2296704-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

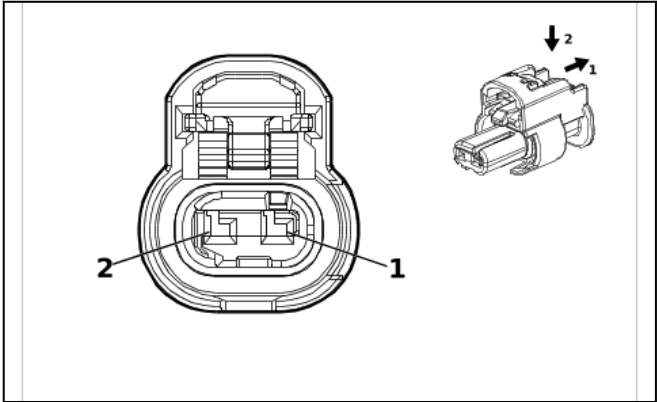
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q83AF Valve Lifter Oil Solenoid Valve - Cylinder 6 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / BN	(1) 2496	(1) Cylinder Shutoff Solenoid Enable Signal 6	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN	(2) 5496	(2) Cylinder Deactivation Solenoid Valve Control 6	(2) I	(2) —

Q83AG Valve Lifter Oil Solenoid Valve - Cylinder 7 (L84 / L87)



4036662

Connector Part Information

- Harness Type: Valve Rocker Arm Oil Control Valve Harness
- OEM Connector: 1-2296704-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

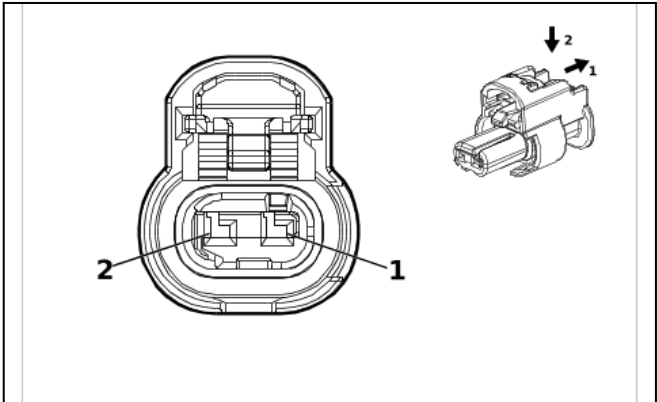
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q83AG Valve Lifter Oil Solenoid Valve - Cylinder 7 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / GY	(1) 2497	(1) Cylinder Shutoff Solenoid Enable Signal 7	(1) I	(1) —
(2) 2	(2) 0.5	(2) WH	(2) 5497	(2) Cylinder Deactivation Solenoid Valve Control 7	(2) I	(2) —

Q83AH Valve Lifter Oil Solenoid Valve - Cylinder 8 (L84 / L87)



4036662

Connector Part Information

- Harness Type: Valve Rocker Arm Oil Control Valve Harness
- OEM Connector: 1-2296704-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

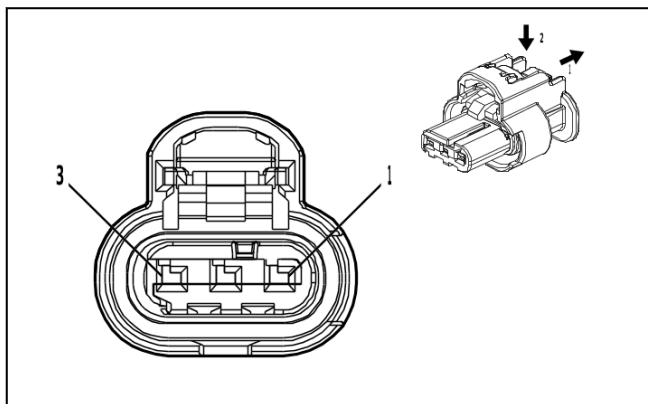
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q83AH Valve Lifter Oil Solenoid Valve - Cylinder 8 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / YE	(1) 2498	(1) Cylinder Shutoff Solenoid Enable Signal 8	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE	(2) 5498	(2) Cylinder Deactivation Solenoid Valve Control 8	(2) I	(2) —

Q97B Engine Coolant Flow Control Valve - Block



4778903

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 1-2296695-2
- Service Connector: 86792095
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

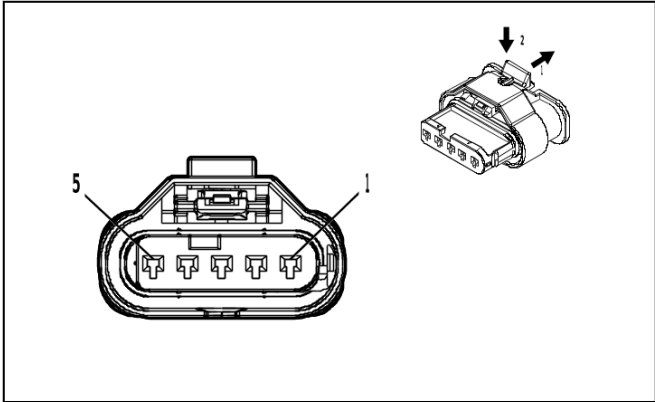
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

Q97B Engine Coolant Flow Control Valve - Block

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / BN	(1) 2732	(1) Engine Control Module LIN Bus 4	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 6550	(2) Ground	(2) I	(2) —
(3) 3	(3) 0.5	(3) VT / BU	(3) 5294	(3) Powertrain Main Relay Fused Supply Voltage 5	(3) I	(3) —

Q97M Engine Coolant Flow Control Valve - Main



4994456

- Connector Part Information**
- Harness Type: Engine Wiring Harness
 - OEM Connector: 2-2236898-5
 - Service Connector: 19371191
 - Description: 5-Way F 1.2 MCON-LL Series, Sealed(NA)

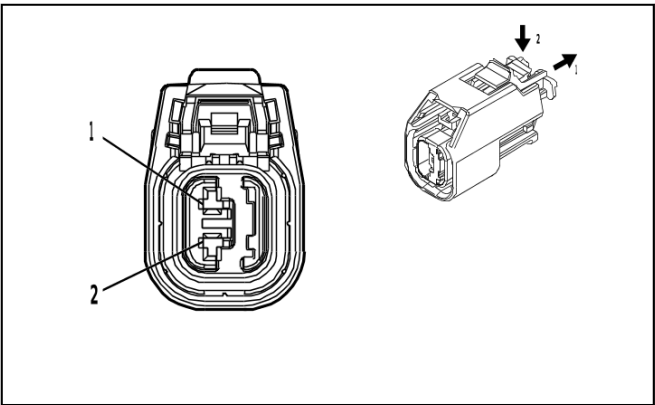
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

Q97M Engine Coolant Flow Control Valve - Main

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GY / BN	(1) 2972	(1) Coolant Flow Control Actuator Control Close	(1) I	(1) —
(2) 2	(2) 0.75	(2) GY / BU	(2) 2971	(2) Coolant Flow Control Actuator Control Open	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / RD	(3) 460	(3) Engine Control Sensors 5 Volt Reference 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) GY	(4) 2973	(4) Coolant Flow Control Valve Position Signal	(4) I	(4) —
(5) 5	(5) 0.5	(5) BK / YE	(5) 548	(5) Engine Control Sensors Low Reference 1	(5) I	(5) —

R6A Terminating Resistor - High Speed Bus



4889830

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 33164011
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 OCS Series, Sealed(BK)

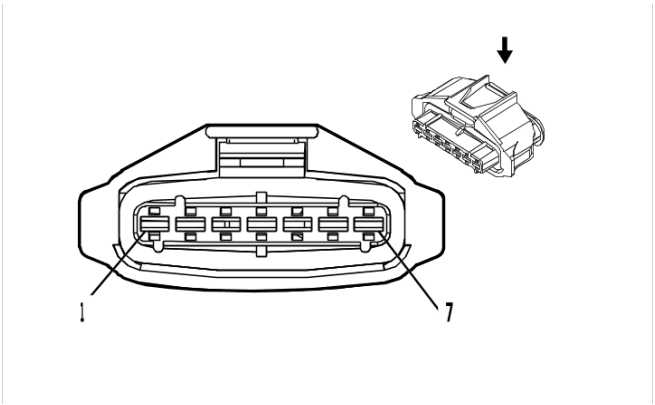
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

R6A Terminating Resistor - High Speed Bus

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 4100	(1) AUTOSAR CAN Bus [-] 4 Serial Data	(1) I	(1) —
(2) 2	(2) 0.5	(2) BU / VT	(2) 4101	(2) AUTOSAR CAN Bus [+] 4 Serial Data	(2) I	(2) —

R29 Fuel Filter (LM2)



2537256

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 10774827
- Service Connector: 19354080
- Description: 7-Way F 2.8 Junior Power Timer Series, Sealed(BK)

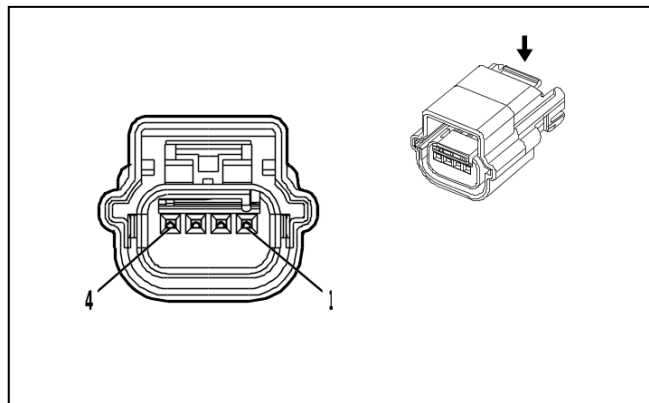
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

R29 Fuel Filter (LM2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BK	(1) 1650	(1) Ground	(1) I	(1) —
(2) 2	(2) 2.5	(2) BN / YE	(2) 2996	(2) Fuel Heater Control 1	(2) I	(2) —
(3) 3	(3) 1	(3) VT / GN	(3) 4320	(3) Powertrain Sensor Bus Enable	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / BU	(4) 6863	(4) Water In Fuel Sensor Low Reference	(4) I	(4) —
(5) 5	(5) 0.5	(5) BU / YE	(5) 6861	(5) Water In Fuel Sensor Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) BN / GY	(6) 7072	(6) Fuel Temperature Sensor 1 Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) BN / WH	(7) 7073	(7) Fuel Temperature Sensor 1 Low Reference	(7) I	(7) —

S2 Automatic Transmission Manual Shift Shaft Position Switch (MI2 / MHT / MQB)



4789353

Connector Part Information

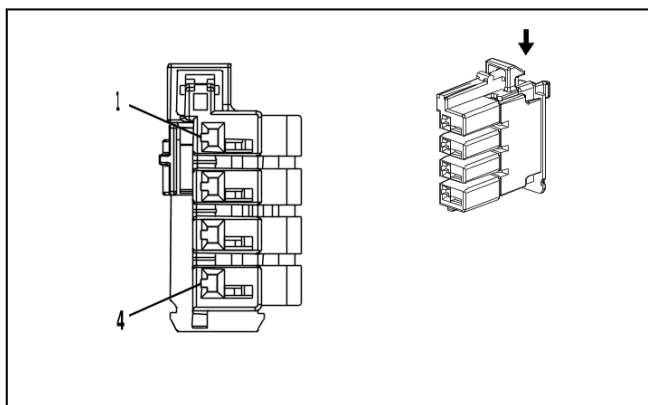
- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 6006314801
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S2 Automatic Transmission Manual Shift Shaft Position Switch (MI2 / MHT / MQB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / GY	(1) 626	(1) Engine Control Vehicle Sensors Low Reference 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE	(2) 3338	(2) Transmission Internal Mode Switch Mode Control X	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE / GY	(3) 3337	(3) Transmission Internal Mode Switch Mode Control Y	(3) I	(3) —
(4) 4	(4) 0.5	(4) OG	(4) 480	(4) Engine Control Vehicle Sensors 5 Volt Reference 1	(4) I	(4) —

S2 Automatic Transmission Manual Shift Shaft Position Switch (MFC)

4364148

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 2289524-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2 MCON Series(BN)

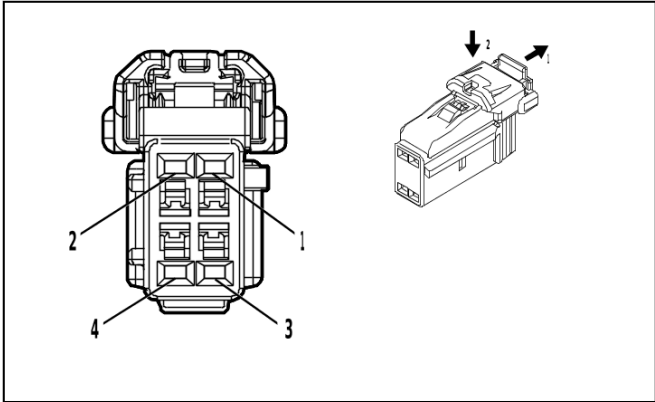
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

S2 Automatic Transmission Manual Shift Shaft Position Switch (MFC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / YE	(1) 3337	(1) Transmission Internal Mode Switch Mode Control Y	(1) I	(1) MFC
(2) 2	(2) 0.5	(2) WH / RD	(2) 480	(2) Engine Control Vehicle Sensors 5 Volt Reference 1	(2) I	(2) MFC
(3) 3	(3) 0.5	(3) BK / GY	(3) 626	(3) Engine Control Vehicle Sensors Low Reference 1	(3) I	(3) MFC
(4) 4	(4) 0.5	(4) BU / WH	(4) 3338	(4) Transmission Internal Mode Switch Mode Control X	(4) I	(4) MFC

S3 Automatic Transmission Control



4872683

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6098-8435
- Service Connector: 19369633
- Description: 4-Way F 1.2 Series(BK)

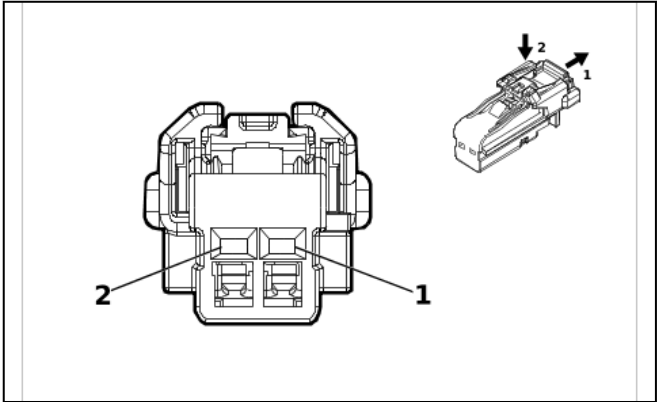
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required

S3 Automatic Transmission Control

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) YE / WH	(1) 816	(1) Brake Transmission Shift Interlock Solenoid Actuator Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1050	(2) Ground	(2) II	(2) —
(3) 3	(3) 0.35	(3) VT / BK	(3) 7553	(3) Park Lock Solenoid Actuator Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 1050	(4) Ground	(4) II	(4) —

S3C Automatic Transmission Control Lever



4115691

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6098-8988
- Service Connector: 87816612
- Description: 2-Way F 1.2 MCON Series(BK)

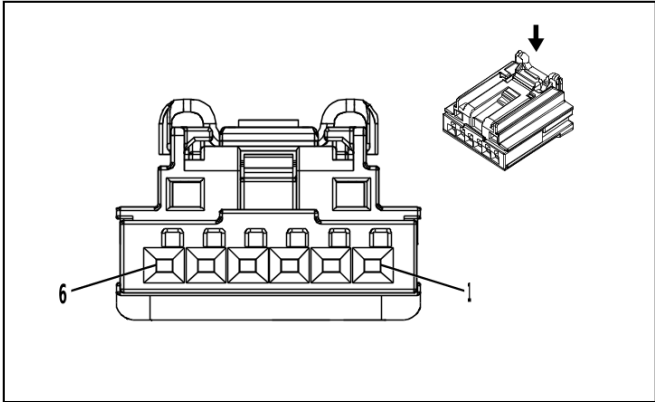
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required

S3C Automatic Transmission Control Lever

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GN / BU	(1) 3738	(1) Tap Up/Tap Down Switch Signal 2	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / WH	(2) 851	(2) Signal Ground	(2) II	(2) —

S13D Door Lock Switch - Driver (- AEQ)



4145138

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Driver
- OEM Connector: 2035363-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

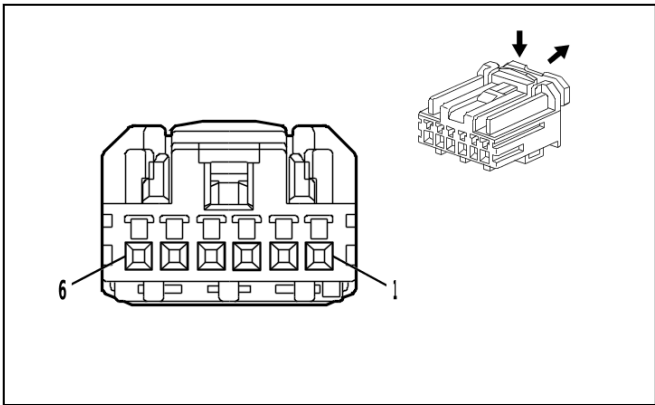
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S13D Door Lock Switch - Driver (- AEQ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / GY	(1) 4784	(1) Left Front Door LED Backlight Dimming Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) BN / YE	(3) 2771	(3) Left Front Door Lock Switch Lock Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BN / WH	(4) 2772	(4) Left Front Door Lock Switch Unlock Signal	(4) I	(4) —
(5) 5	(5) 0.5	(5) BK	(5) 1550	(5) Ground	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

S13D Door Lock Switch - Driver (AEQ)



4650256

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Driver
- OEM Connector: HCMPB-C06A-K
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 HCM Series(BK)

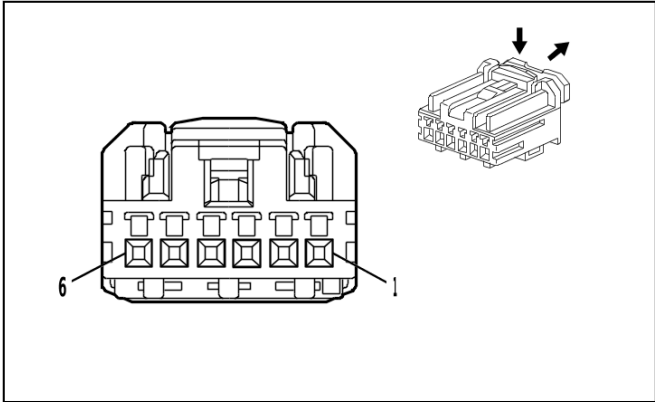
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S13D Door Lock Switch - Driver (AEQ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE	(1) 6817	(1) LED Backlight Dimming Control 1	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / YE	(2) 2771	(2) Left Front Door Lock Switch Lock Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BN / WH	(3) 2772	(3) Left Front Door Lock Switch Unlock Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 1550	(4) Ground	(4) I	(4) —
5 - 6	—	—	—	Not Occupied	—	—

S13P Door Lock Switch - Passenger - Double Cab / Crew Cab (GF2 / GF5 / GFF / GPZ)



4650256

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Passenger
- OEM Connector: HCMPB-C06A-K
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 HCM Series(BK)

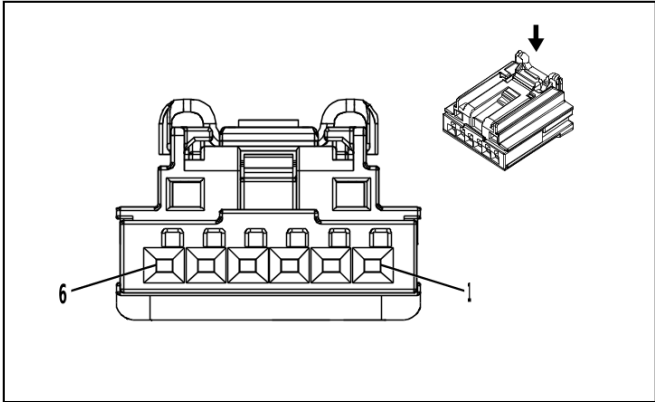
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S13P Door Lock Switch - Passenger - Double Cab / Crew Cab (GF2 / GF5 / GFF / GPZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) YE (1) GY / VT	(1) 6817 (1) 4638	(1) LED Backlight Dimming Control 1 (1) LED Backlight Dimming Control Right Front Door	(1) I (1) I	(1) DEN (1) DLF / DPO
(2) 2	(2) 0.5	(2) YE / VT	(2) 2773	(2) Right Front Door Lock Switch Lock Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) BN / VT	(3) 2774	(3) Right Front Door Lock Switch Unlock Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 1350	(4) Ground	(4) I	(4) —
5 - 6	—	—	—	Not Occupied	—	—

S13P Door Lock Switch - Passenger - Double Cab / Crew Cab (GF3 / GF4 / GFC / GRZ)



4145138

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Passenger
- OEM Connector: 2035363-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

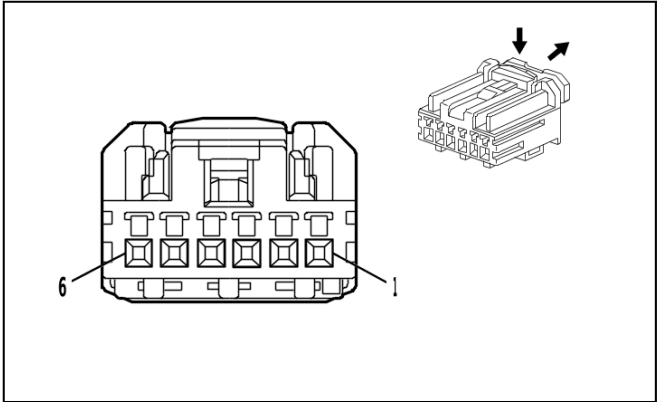
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S13P Door Lock Switch - Passenger - Double Cab / Crew Cab (GF3 / GF4 / GFC / GRZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / VT	(1) 4638	(1) LED Backlight Dimming Control Right Front Door	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) YE / VT	(3) 2773	(3) Right Front Door Lock Switch Lock Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) BN / VT	(4) 2774	(4) Right Front Door Lock Switch Unlock Control	(4) I	(4) —
(5) 5	(5) 0.5	(5) BK	(5) 1350	(5) Ground	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

S13P Door Lock Switch - Passenger - Regular Cab (GF3 / GF4 / GF5 / GFC)



4650256

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Passenger
- OEM Connector: HCMPB-C06A-K
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 HCM Series(BK)

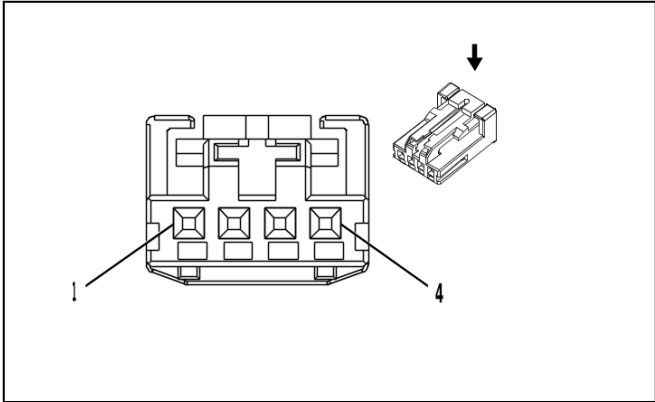
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S13P Door Lock Switch - Passenger - Regular Cab (GF3 / GF4 / GF5 / GFC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / VT	(1) 4638	(1) LED Backlight Dimming Control Right Front Door	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / VT	(2) 2773	(2) Right Front Door Lock Switch Lock Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) BN / VT	(3) 2774	(3) Right Front Door Lock Switch Unlock Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 1350	(4) Ground	(4) I	(4) —
5 - 6	—	—	—	Not Occupied	—	—

S27 Head-Up Display Switch (UV6)



2717162

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 1-936119-1
- Service Connector: 19367524
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

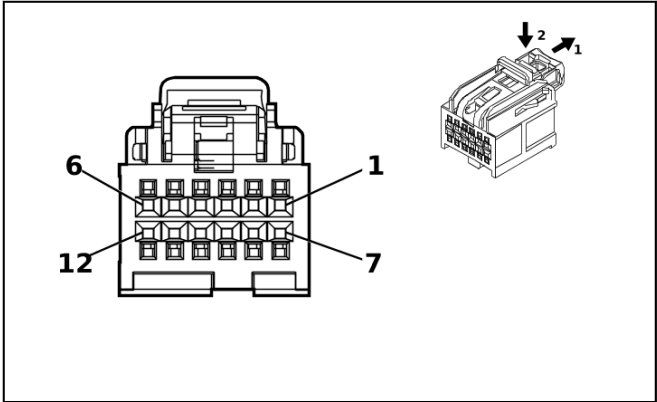
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S27 Head-Up Display Switch (UV6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) YE	(1) 6817	(1) LED Backlight Dimming Control 1	(1) I	(1) —
(2) 2	(2) 0.35	(2) BK / WH	(2) 851	(2) Signal Ground	(2) I	(2) —
(3) 3	(3) 0.35	(3) BK / GN	(3) 5699	(3) Head-Up Display Switch Low Reference	(3) I	(3) —
(4) 4	(4) 0.35	(4) YE / WH	(4) 622	(4) Head-Up Display Switch Signal	(4) I	(4) —

S30 Headlamp Switch



4975223

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35016616
- Service Connector: 13519750
- Description: 12-Way F 0.64 OCS Series(BK)

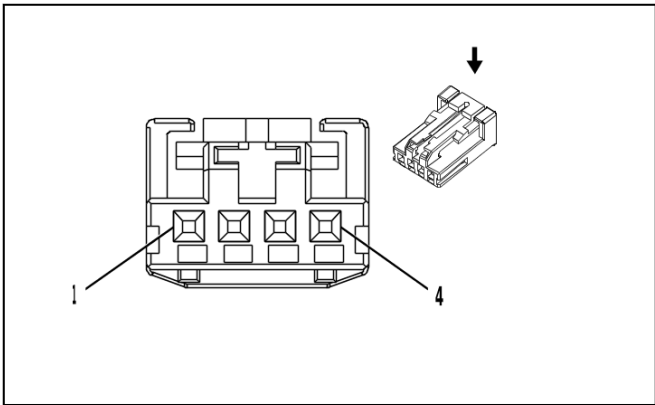
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19354230	J-35616-64B (L-BU)	J-38125-215A

S30 Headlamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) WH / VT	(1) 103	(1) Headlamp Switch On Signal	(1) I	(1) —
(2) 2	(2) 0.35	(2) YE	(2) 6817	(2) LED Backlight Dimming Control 1	(2) I	(2) —
(3) 3	(3) 0.35	(3) GN / BN	(3) 306	(3) Headlamp Switch Off Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) GY	(4) 158	(4) Cargo Lamp Switch Signal	(4) I	(4) —
(5) 5	(5) 0.35	(5) GN / GY	(5) 13	(5) Headlamp Switch Park Lamp Signal	(5) I	(5) —
(6) 6	(6) 0.35	(6) BU / GN	(6) 4248	(6) Cargo Lamp Indicator Control	(6) I	(6) —
(7) 7	(7) 0.35	(7) WH / GY	(7) 2935	(7) Task Lamp Switch Signal	(7) I	(7) —
(8) 8	(8) 0.35	(8) BK / WH	(8) 851	(8) Signal Ground	(8) I	(8) —
9 - 10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.35	(11) WH / BN	(11) 7555	(11) Headlamp Switch Signal	(11) I	(11) —
(12) 12	(12) 0.35	(12) YE	(12) 7556	(12) Headlamp Switch Reference	(12) I	(12) —

S32LR Rear Seat Heater Switch - Left (KA6)



2717162

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 1-936119-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

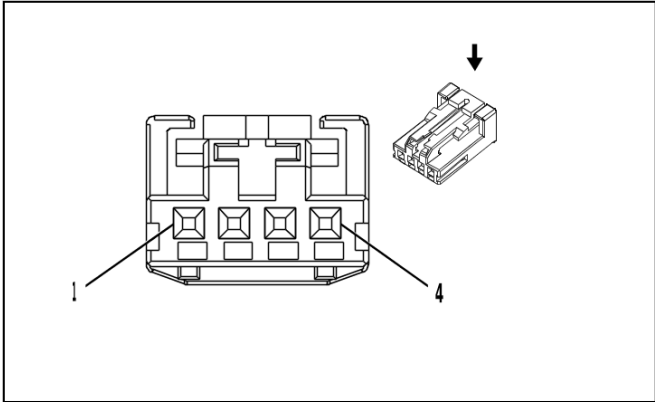
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S32LR Rear Seat Heater Switch - Left (KA6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / BU	(1) 1240	(1) Battery Positive Voltage	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) GN / VT	(3) 2857	(3) Body Control Module LIN Bus 11	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / WH	(4) 1451	(4) Signal Ground	(4) I	(4) —

S32R Rear Seat Heater Switch (KA6)



2717162

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 13969166
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

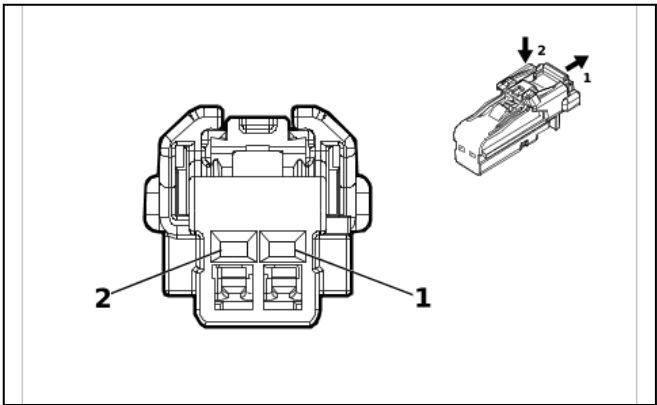
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S32R Rear Seat Heater Switch (KA6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) RD / BU	(1) 1240	(1) Battery Positive Voltage	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) —	(3) GN / VT	(3) 2857	(3) Body Control Module LIN Bus 11	(3) I	(3) —
(4) 4	(4) —	(4) BK / WH	(4) 1451	(4) Signal Ground	(4) I	(4) —

S33 Steering Wheel Horn Contact (D07 / NK5)



4115691

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

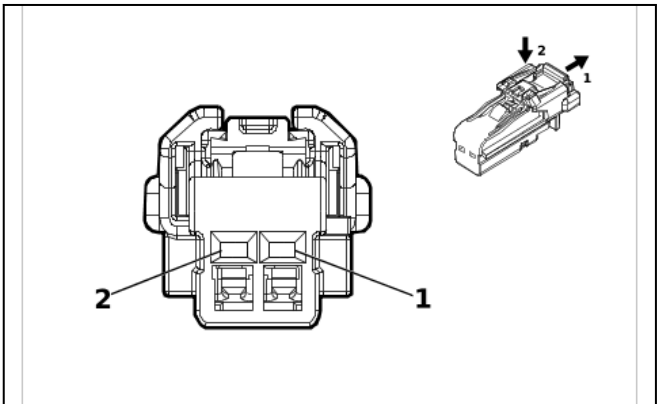
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

S33 Steering Wheel Horn Contact (D07 / NK5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK / WH	(1) 6051	(1) Steering Wheel Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) GN / WH	(2) 3287	(2) Horn Switch Signal	(2) I	(2) —

S33 Steering Wheel Horn Contact (N57 - D07)



4115691

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

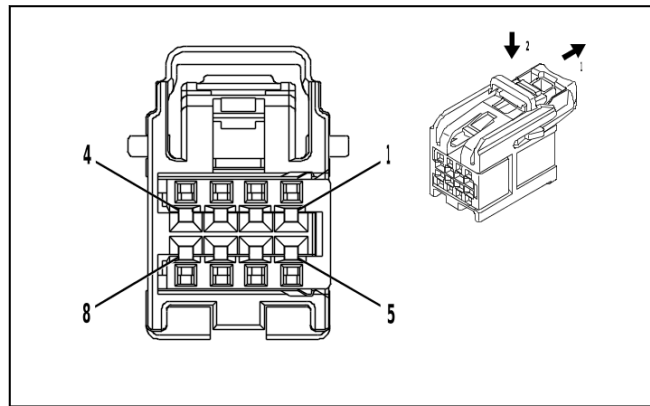
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

S33 Steering Wheel Horn Contact (N57 - D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK	(1) 6051	(1) Steering Wheel Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) RD	(2) 3287	(2) Horn Switch Signal	(2) I	(2) —

S38 On/Off Vehicle Switch



4232228

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 15526973
- Service Connector: 19353873
- Description: 8-Way F 0.64 OCS Series(GY)

Terminal Part Information

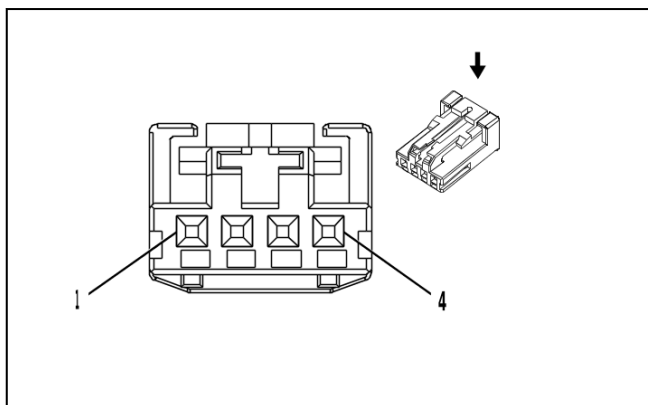
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

S38 On/Off Vehicle Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BU / BK	(1) 5719	(1) Ignition Mode Switch Start LED Signal	(1) I	(1) —
(2) 2	(2) 0.35	(2) BN / BK	(2) 5720	(2) Ignition Mode Switch Accessory LED Signal	(2) I	(2) —
(3) 3	(3) 0.35	(3) BK / WH	(3) 851	(3) Signal Ground	(3) I	(3) —
(4) 4	(4) 0.35	(4) BU / GN	(4) 5723	(4) Ignition Mode Switch Mode Voltage	(4) I	(4) —
(5) 5	(5) 0.35	(5) YE	(5) 6817	(5) LED Backlight Dimming Control 1	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(7) 7	(7) 0.35	(7) BK / GY	(7) 3559	(7) Passive Start Switch 2 Low Reference	(7) I	(7) —
(8) 8	(8) 0.35	(8) GN / BK	(8) 3558	(8) Passive Start Switch Signal 2	(8) I	(8) —

S47D Front Seat Adjuster Memory Switch - Driver - Double Cab / Crew Cab (A45)



2717162

Connector Part Information

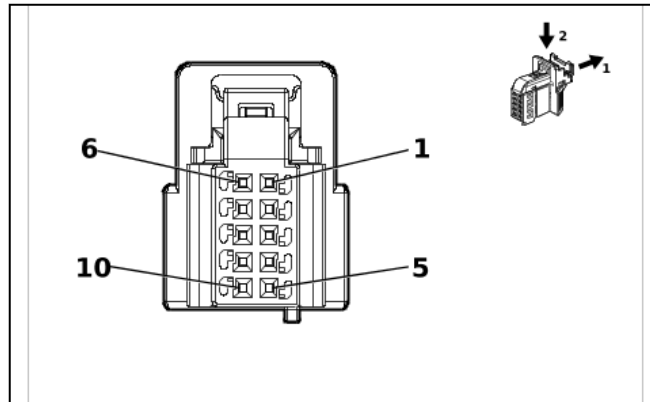
- Harness Type: Front Side Door Door Lock Door Wiring Harness - Driver
- OEM Connector: 1-936119-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S47D Front Seat Adjuster Memory Switch - Driver - Double Cab / Crew Cab (A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / GY	(1) 4784	(1) Left Front Door LED Backlight Dimming Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / WH	(2) 1551	(2) Signal Ground	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH	(3) 615	(3) Seat Memory Switch Signal 1	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU / GN	(4) 614	(4) Seat Memory Switch Set Signal	(4) I	(4) —

S47D Front Seat Adjuster Memory Switch - Driver - Regular Cab (A45)

5838155

Connector Part Information

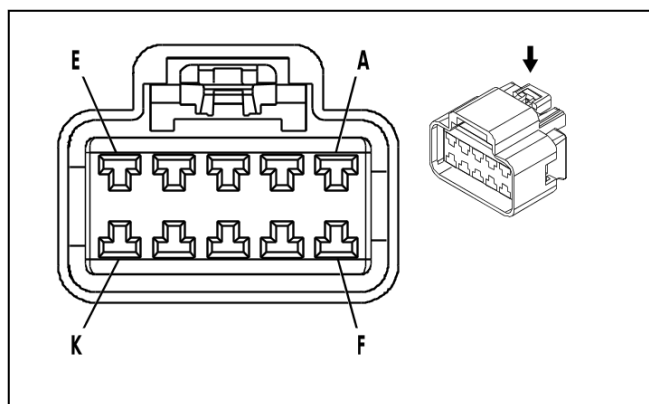
- Harness Type: Front Side Door Door Lock Door Wiring Harness - Driver
- OEM Connector: 2310000-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 0.64 MQS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S47D Front Seat Adjuster Memory Switch - Driver - Regular Cab (A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / GY	(1) 4784	(1) Left Front Door LED Backlight Dimming Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) BN / YE	(3) 2771	(3) Left Front Door Lock Switch Lock Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BN / WH	(4) 2772	(4) Left Front Door Lock Switch Unlock Signal	(4) I	(4) —
(5) 5	(5) 0.5	(5) BK / WH	(5) 1551	(5) Signal Ground	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / GN	(6) 614	(6) Seat Memory Switch Set Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) WH	(7) 615	(7) Seat Memory Switch Signal 1	(7) I	(7) —
8 - 10	—	—	—	Not Occupied	—	—

S64D Front Seat Adjuster Switch - Driver (- A45)

623046

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 35058909
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 280 GT Series(BK)

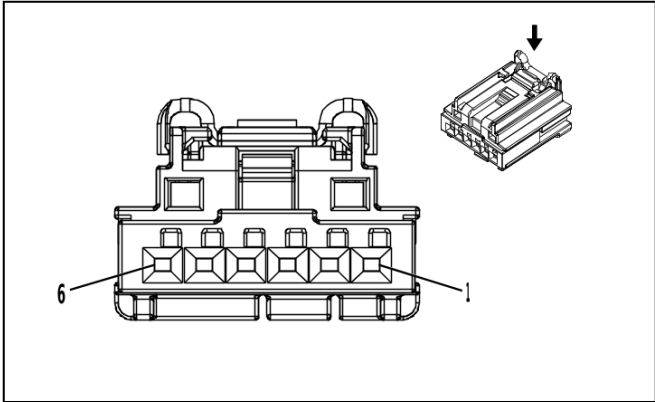
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

S64D Front Seat Adjuster Switch - Driver (- A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.5	RD / YE	5040	Battery Positive Voltage	I	—
B	1.5	BU / YE	277	Driver Seat Recline Motor Rearward Control	I	—
C	1.5	YE / BU	285	Driver Seat Horizontal Motor Forward Control	I	—
D	1.5	GY / GN	284	Driver Seat Horizontal Motor Rearward Control	I	—
E	1.5	GY / BU	283	Driver Seat Rear Vertical Motor Down Control	I	—
F	1.5	GN / BN	286	Driver Seat Front Vertical Motor Up Control	I	—
G	1.5	YE	282	Driver Seat Rear Vertical Motor Up Control	I	—
H	1.5	GN / YE	276	Driver Seat Recline Motor Forward Control	I	—
J	2.5	BK	1550	Ground	I	—
K	1.5	BU / VT	287	Driver Seat Front Vertical Motor Down Control	I	—

S64D Front Seat Adjuster Switch - Driver (A45)



3960313

Connector Part Information

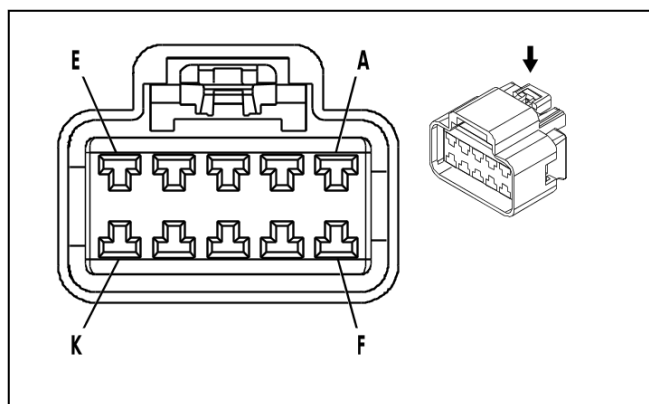
- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 2035363-4
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S64D Front Seat Adjuster Switch - Driver (A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / BN	(1) 2240	(1) Battery Positive Voltage	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) GN / GY	(3) 3758	(3) Driver Seat Adjuster Memory Module LIN Bus 2	(3) I	(3) - AVK
(4) 4	(4) 0.5	(4) BK	(4) 1550	(4) Ground	(4) I	(4) —
(5) 5	(5) 0.5	(5) BU / YE	(5) 2818	(5) Driver Seat Auxiliary Adjustment Switch Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) BK / VT	(6) 2817	(6) Auxiliary Driver Seat Adjustment Switch Low Reference	(6) I	(6) —

S64P Front Seat Adjuster Switch - Passenger (A7K)

623046

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 35058909
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 280 GT Series(BK)

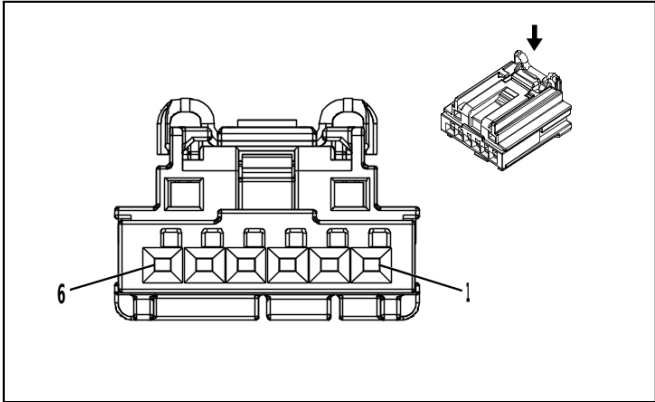
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

S64P Front Seat Adjuster Switch - Passenger (A7K)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	BU / WH	289	Passenger Seat Rear Vertical Motor Down Control	I	—
B	1.5	YE / BU	290	Passenger Seat Horizontal Motor Rearward Control	I	—
C	1.5	YE / WH	296	Passenger Seat Horizontal Motor Forward Control	I	—
D	1.5	BU / BN	77	Passenger Seat Recline Motor Rearward Control	I	—
E	2.5	BK	1350	Ground	I	—
F	1.5	GN / BU	298	Passenger Seat Front Vertical Motor Down Control	I	—
G	2.5	RD / YE	7440	Battery Positive Voltage	I	—
H	1.5	GN	76	Passenger Seat Recline Motor Forward Control	I	—
J	1.5	GN / WH	288	Passenger Seat Rear Vertical Motor Up Control	I	—
K	1.5	GN / VT	297	Passenger Seat Front Vertical Motor Up Control	I	—

S64P Front Seat Adjuster Switch - Passenger (A7K - AKE - AHH)



3960313

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 2035363-4
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

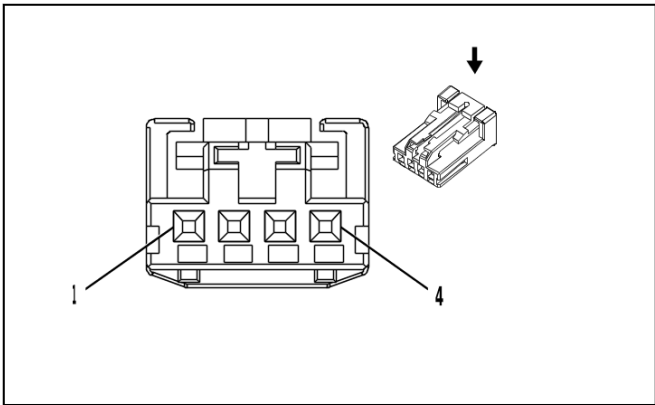
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S64P Front Seat Adjuster Switch - Passenger (A7K - AKE - AHH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / BN	(1) 2240	(1) Battery Positive Voltage	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) GN / YE	(3) 4116	(3) Passenger Seat Adjuster Memory Module LIN Bus 2	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 1350	(4) Ground	(4) I	(4) —
(5) 5	(5) 0.5	(5) GN / WH	(5) 2816	(5) Passenger Seat Auxiliary Adjustment Switch Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) BK / BN	(6) 2815	(6) Auxiliary Passenger Seat Adjustment Switch Low Reference	(6) I	(6) —

S65D Front Seat Lumbar Switch - Driver (A45 & AVK)



2717162

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 1-936119-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

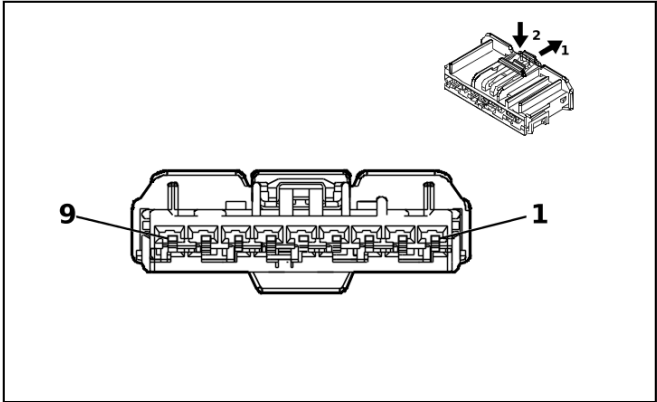
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S65D Front Seat Lumbar Switch - Driver (A45 & AVK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) BU / YE	(3) 2818	(3) Driver Seat Auxiliary Adjustment Switch Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / VT	(4) 2817	(4) Auxiliary Driver Seat Adjustment Switch Low Reference	(4) I	(4) —

S65D Front Seat Lumbar Switch - Driver (AVK)



5204289

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 7289-6875-40
- Service Connector: Service by Harness - See Part Catalog
- Description: 9-Way F 2.8 YESC Series(GY)

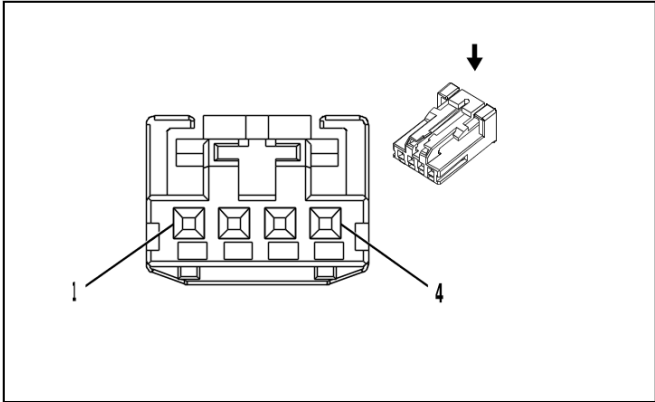
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

S65D Front Seat Lumbar Switch - Driver (AVK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 1550	(1) Ground	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.75	(3) RD / BN	(3) 2240	(3) Battery Positive Voltage	(3) I	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.75	(5) BU	(5) 611	(5) Driver Seat Lumbar Support Motor Forward Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.75	(7) VT	(7) 610	(7) Driver Seat Lumbar Support Motor Backward Control	(7) I	(7) —
8 - 9	—	—	—	Not Occupied	—	—

S65P Front Seat Lumbar Switch - Passenger (- AKE & AVU)



2717162

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 1-936119-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

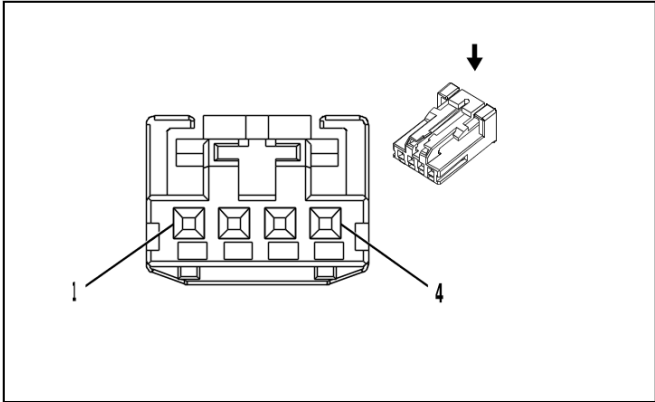
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S65P Front Seat Lumbar Switch - Passenger (- AKE & AVU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) YE / GN	(3) 1068	(3) Passenger Seat Lumbar Support Switch Analog Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / BU	(4) 2194	(4) Passenger Seat Position Switch Low Reference	(4) I	(4) —

S65P Front Seat Lumbar Switch - Passenger (AKE & AVU)



2717162

Connector Part Information

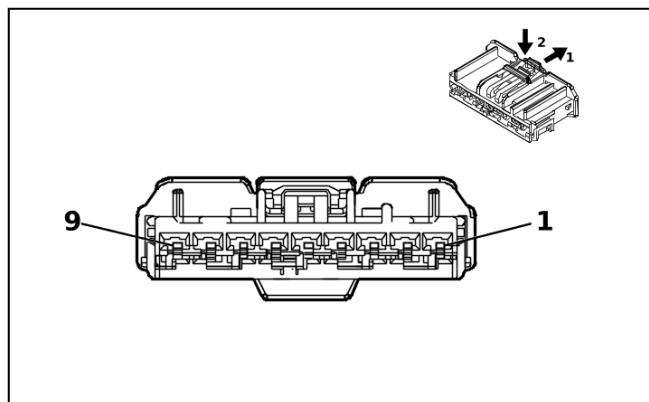
- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 1-936119-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S65P Front Seat Lumbar Switch - Passenger (AKE & AVU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) GN / WH	(3) 2816	(3) Passenger Seat Auxiliary Adjustment Switch Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / BN	(4) 2815	(4) Auxiliary Passenger Seat Adjustment Switch Low Reference	(4) I	(4) —

S65P Front Seat Lumbar Switch - Passenger (A7K - AVU)

5204289

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 7289-6875-40
- Service Connector: Service by Harness - See Part Catalog
- Description: 9-Way F 2.8 YESC Series(GY)

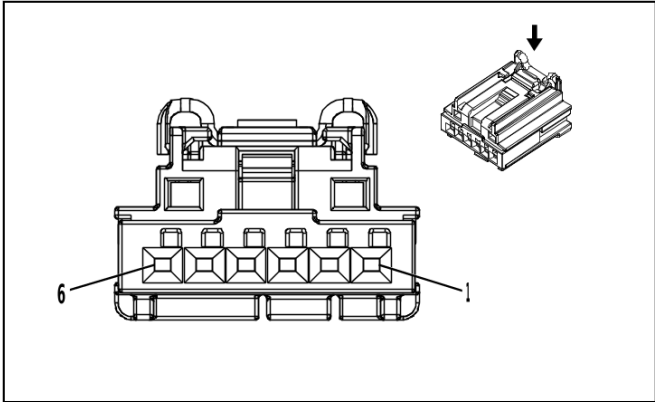
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

S65P Front Seat Lumbar Switch - Passenger (A7K - AVU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 1350	(1) Ground	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.75	(3) RD / BN	(3) 2240	(3) Battery Positive Voltage	(3) I	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.75	(5) BU	(5) 211	(5) Passenger Seat Lumbar Support Motor Forward Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.75	(7) VT	(7) 210	(7) Passenger Seat Lumbar Support Motor Backward Control	(7) I	(7) —
8 - 9	—	—	—	Not Occupied	—	—

S70E Radio Favorites Switch - Steering Wheel (D07 / NK5)



3960313

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 2035363-4
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

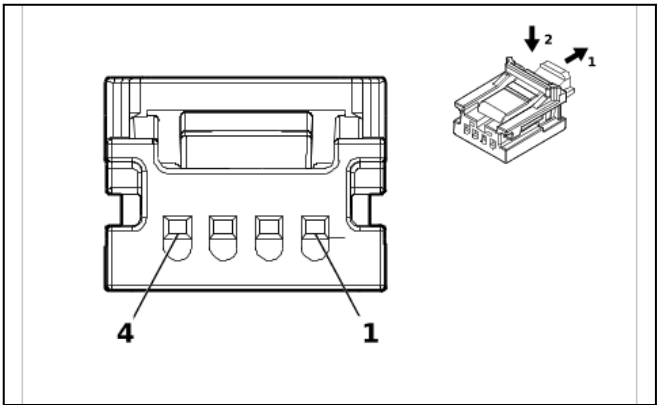
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S70E Radio Favorites Switch - Steering Wheel (D07 / NK5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK / WH	(1) 6051	(1) Steering Wheel Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) YE / BU	(2) 4312	(2) Radio Favorite Back Switch Signal	(2) I	(2) —
(3) 3	(3) 0.35	(3) WH / YE	(3) 4313	(3) Radio Favorite Forward Switch Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) YE / BU	(4) 6855	(4) Transmission Tap Down Switch Signal	(4) I	(4) —
5 - 6	—	—	—	Not Occupied	—	—

S70E Radio Favorites Switch - Steering Wheel (N57 - D07)



5493278

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 34791-5140
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F Mini 50 Series(BK)

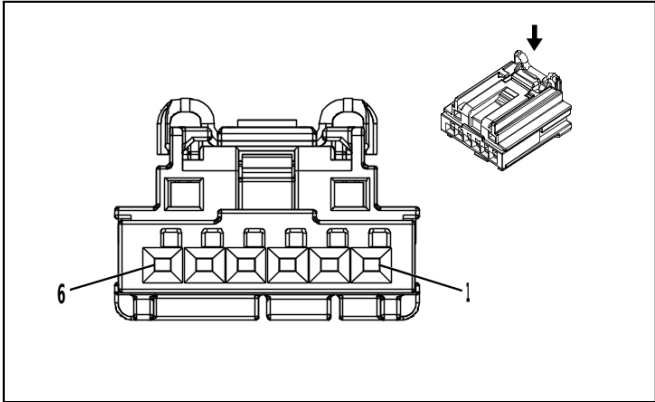
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

S70E Radio Favorites Switch - Steering Wheel (N57 - D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK	(1) 6051	(1) Steering Wheel Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) BU / RD	(2) 4313	(2) Radio Favorite Forward Switch Signal	(2) I	(2) —
(3) 3	(3) 0.35	(3) BU / RD	(3) 4312	(3) Radio Favorite Back Switch Signal	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

S70F Radio Volume Switch - Steering Wheel (D07 / NK5)



3960313

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 2035363-4
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

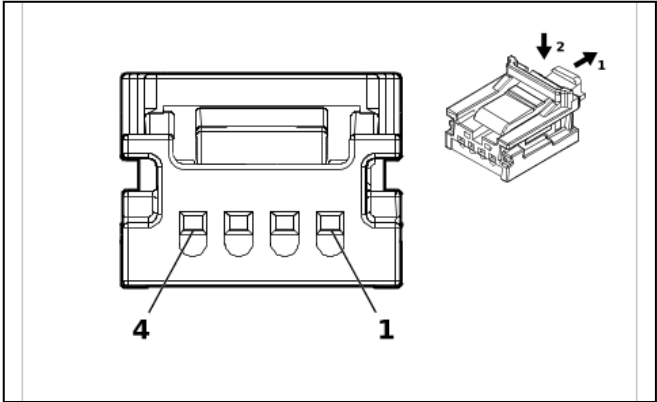
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S70F Radio Volume Switch - Steering Wheel (D07 / NK5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK / WH	(1) 6051	(1) Steering Wheel Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) GY / BN	(2) 4314	(2) Radio Volume Down Switch Signal	(2) I	(2) —
(3) 3	(3) 0.35	(3) BU	(3) 4315	(3) Radio Volume Up Switch Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) YE / BU	(4) 6855	(4) Transmission Tap Down Switch Signal	(4) I	(4) —
(5) 5	(5) 0.35	(5) VT / YE	(5) 5526	(5) Tap Up/Tap Down Switch Signal	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

S70F Radio Volume Switch - Steering Wheel (N57 - D07)



5493584

Connector Part Information

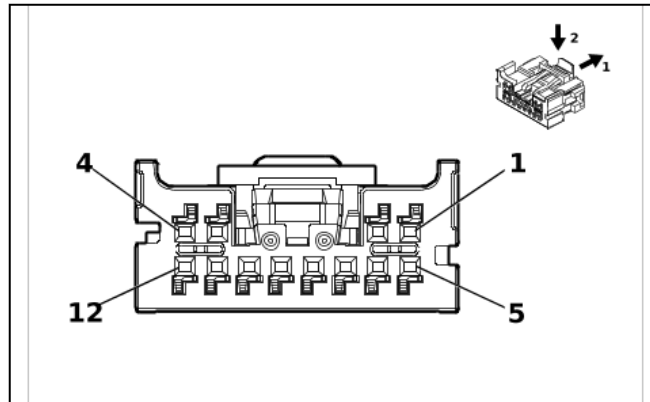
- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 34791-5141
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F Mini 50 Series(GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

S70F Radio Volume Switch - Steering Wheel (N57 - D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK	(1) 6051	(1) Steering Wheel Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) GN / RD	(2) 4314	(2) Radio Volume Down Switch Signal	(2) I	(2) —
(3) 3	(3) 0.35	(3) OG / RD	(3) 4315	(3) Radio Volume Up Switch Signal	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

S70L Cruise Control Switch (N57 - D07)

5823893

Connector Part Information

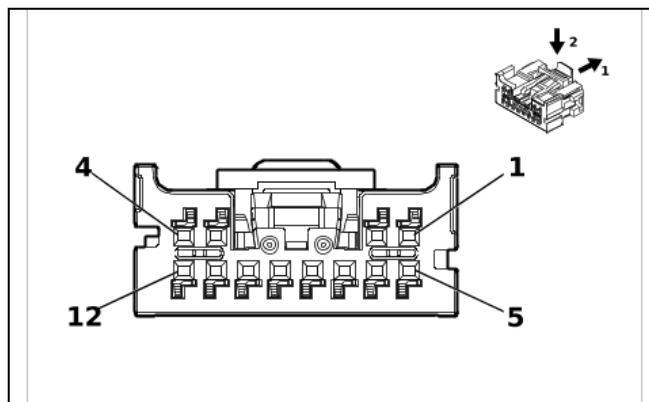
- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 206523-2122
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way F Mini 50 Series(GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

S70L Cruise Control Switch (N57 - D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GN	(1) 5140	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) PK	(2) 3893	(2) Steering Wheel LED Backlight Dimming Control	(2) I	(2) —
(3) 3	(3) 0.35	(3) GN / OG	(3) 1884	(3) Cruise Control Set/Coast/Resume/Accelerate Switch Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) VT	(4) 5737	(4) Distance Sensing Cruise Control Gap Up/Down Switch Signal	(4) I	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.35	(6) BK	(6) 6051	(6) Steering Wheel Ground	(6) I	(6) —
(7) 7	(7) 0.35	(7) BN / WH	(7) 5884	(7) Steering Wheel Heating Switch LED Control	(7) I	(7) —
(8) 8	(8) 0.35	(8) YE / GY	(8) 5883	(8) Steering Wheel Heating Switch Signal	(8) I	(8) —
(9) 9	(9) 0.35	(9) BK / RD	(9) 3892	(9) Indicator Dimming Control 2	(9) I	(9) —
(10) 10	(10) 0.35	(10) BU	(10) 1449	(10) Steering Wheel Resistor Ladder Low Reference	(10) I	(10) —
11 - 12	—	—	—	Not Occupied	—	—

S70L Cruise Control Switch (N57 & D07)

5823893

Connector Part Information

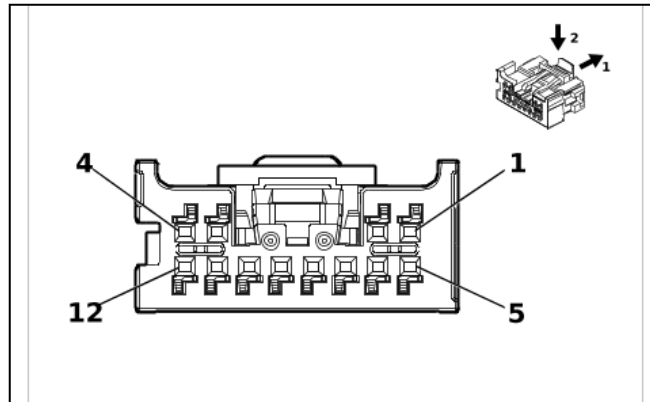
- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 206523-2122
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way F Mini 50 Series(GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

S70L Cruise Control Switch (N57 & D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) RD / GN	(1) 5140	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) YE / BK	(2) 3893	(2) Steering Wheel LED Backlight Dimming Control	(2) I	(2) —
(3) 3	(3) 0.35	(3) BN / GN	(3) 1884	(3) Cruise Control Set/Coast/Resume/Accelerate Switch Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) GY / GN	(4) 5737	(4) Distance Sensing Cruise Control Gap Up/Down Switch Signal	(4) I	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.35	(6) BK / WH	(6) 6051	(6) Steering Wheel Ground	(6) I	(6) —
7 - 8	—	—	—	Not Occupied	—	—
(9) 9	(9) 0.35	(9) VT	(9) 3892	(9) Indicator Dimming Control 2	(9) I	(9) —
(10) 10	(10) 0.35	(10) BK / VT	(10) 1449	(10) Steering Wheel Resistor Ladder Low Reference	(10) I	(10) —
11 - 12	—	—	—	Not Occupied	—	—

S70R Radio Control Switch - Steering Wheel

5911307

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 206523-2123
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way F Mini 50 Series(GY)

Terminal Part Information

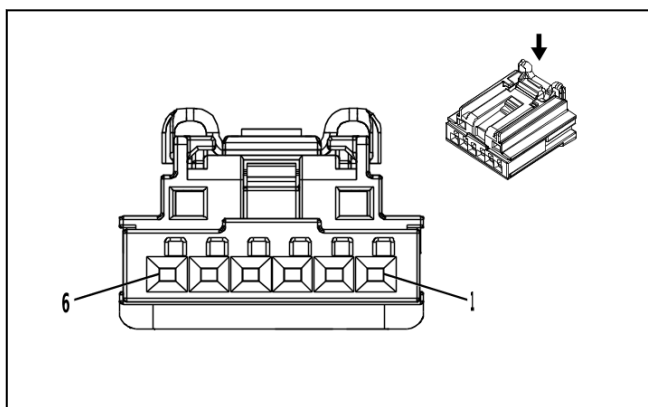
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

S70R Radio Control Switch - Steering Wheel

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35 (1) 0.35	(1) GN (1) RD / GN	(1) 5140 (1) 5140	(1) Battery Positive Voltage (1) Battery Positive Voltage	(1) I (1) I	(1) N57 - D07 (1) N57+ D07
(2) 2	(2) 0.35 (2) 0.35	(2) PK (2) YE / BK	(2) 3893 (2) 3893	(2) Steering Wheel LED Backlight Dimming Control (2) Steering Wheel LED Backlight Dimming Control	(2) I (2) I	(2) N57 - D07 (2) N57+ D07
(3) 3	(3) 0.35 (3) 0.35	(3) GN / BK (3) BK / BU	(3) 3894 (3) 3894	(3) Instrument Panel Cluster Control Module LIN Bus 1 (3) Instrument Panel Cluster Control Module LIN Bus 1	(3) I (3) I	(3) N57 - D07 (3) N57+ D07
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.35 (6) 0.35	(6) BK / WH (6) BK	(6) 6051 (6) 6051	(6) Steering Wheel Ground (6) Steering Wheel Ground	(6) I (6) I	(6) N57 - D07 (6) N57+ D07
(7) 7	(7) 0.35 (7) 0.35	(7) BU / RD (7) WH / YE	(7) 4313 (7) 4313	(7) Radio Favorite Forward Switch Signal (7) Radio Favorite Forward Switch Signal	(7) I (7) I	(7) N57 - D07 (7) N57+ D07
(8) 8	(8) 0.35 (8) 0.35	(8) BU / RD (8) YE / BU	(8) 4312 (8) 4312	(8) Radio Favorite Back Switch Signal (8) Radio Favorite Back Switch Signal	(8) I (8) I	(8) N57 - D07 (8) N57+ D07
(9) 9	(9) 0.35 (9) 0.35	(9) BK / RD (9) VT	(9) 3892 (9) 3892	(9) Indicator Dimming Control 2 (9) Indicator Dimming Control 2	(9) I (9) I	(9) N57 - D07 (9) N57+ D07

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(10) 10	(10) 0.3 5 (10) 0.3 5	(10) OG / RD (10) BU	(10) 4315 (10) 4315	(10) Radio Volume Up Switch Signal (10) Radio Volume Up Switch Signal	(10) I (10) I	(10) N57 - D07 (10) N57+ D07
(11) 11	(11) 0.3 5 (11) 0.3 5	(11) GN / RD (11) GY / BN	(11) 4314 (11) 4314	(11) Radio Volume Down Switch Signal (11) Radio Volume Down Switch Signal	(11) I (11) I	(11) N57 - D07 (11) N57+ D07
12	—	—	—	Not Occupied	—	—

S71 Steering Column Tilt Wheel and Telescope Switch (N38)



4145138

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 2035363-2
- Service Connector: 19356359
- Description: 6-Way F 0.64 Generation Y Series(BK)

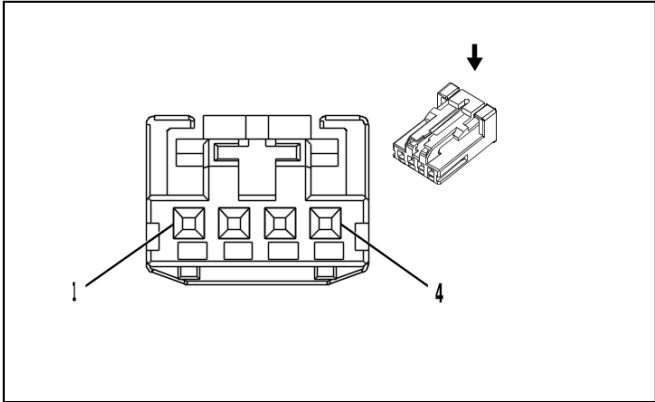
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S71 Steering Column Tilt Wheel and Telescope Switch (N38)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / YE	(1) 2094	(1) Steering Column Tilt and Telescope Switch Forward Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / BN	(2) 2097	(2) Steering Column Tilt and Telescope Switch Down Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BN / GY	(3) 2096	(3) Steering Column Tilt and Telescope Switch Up Signal	(3) I	(3) —
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) GN / BN	(5) 2095	(5) Steering Column Tilt and Telescope Switch Rearward Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) VT / BK	(6) 2020	(6) Steering Column Tilt and Telescope Switch Feedback Signal	(6) I	(6) —

S76 Trailer Brake Control Switch (IOK)



2717162

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 1-936119-1
- Service Connector: 19367524
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

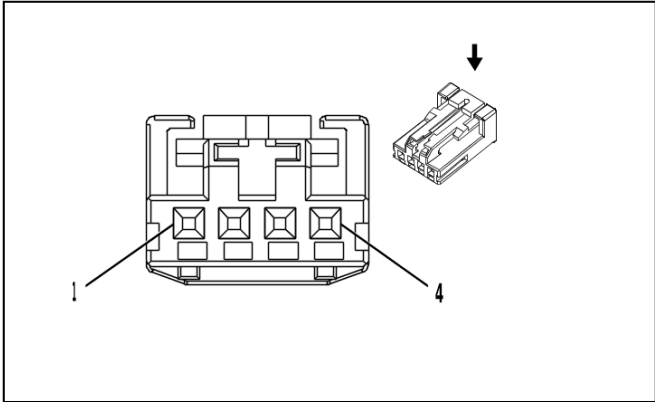
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S76 Trailer Brake Control Switch (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / YE	(1) 2340	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) GN / BU	(2) 2733	(2) Brake System Control Module LIN Bus 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK	(3) 1050	(3) Ground	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

S76 Trailer Brake Control Switch (IOR)



2717162

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 1-936119-1
- Service Connector: 19367524
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

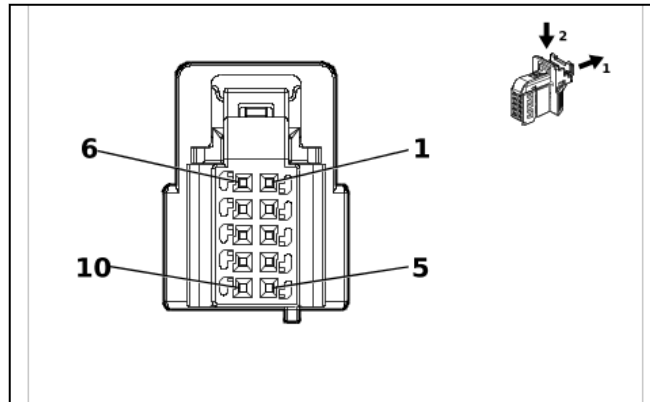
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S76 Trailer Brake Control Switch (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / YE	(1) 2340	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) GN / BU	(2) 2733	(2) Brake System Control Module LIN Bus 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK	(3) 1050	(3) Ground	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

S78 Turn Signal Switch



5838155

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 2310000-1
- Service Connector: 13518417
- Description: 10-Way F 0.64 MQS Series(BK)

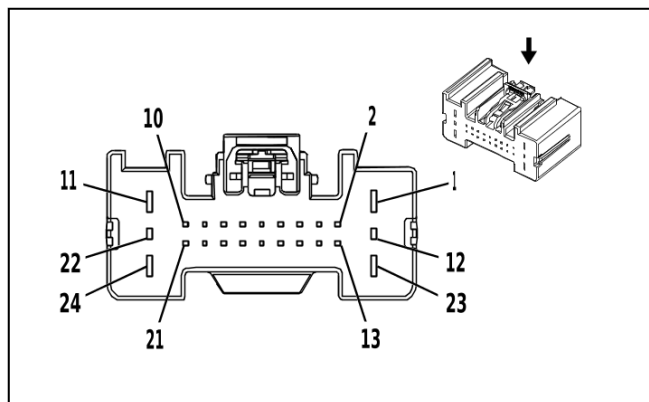
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300632	J-35616-64B (L-BU)	J-38125-215A

S78 Turn Signal Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) WH / GN	(1) 2915	(1) Left Turn Signal Switch Signal	(1) I	(1) —
(2) 2	(2) 0.35	(2) VT / BU	(2) 2916	(2) Right Turn Signal Switch Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / WH	(3) 851	(3) Signal Ground	(3) I	(3) —
(4) 4	(4) 0.35	(4) GY / BN	(4) 3904	(4) Auto High Beam Assist Switch Signal	(4) I	(4) —
(5) 5	(5) 0.35	(5) WH / BK	(5) 94	(5) Windshield Washer Switch Signal	(5) I	(5) —
(6) 6	(6) 0.35	(6) YE / BN	(6) 307	(6) Headlamp Switch Flash Signal	(6) I	(6) —
(7) 7	(7) 0.35	(7) WH	(7) 524	(7) High Beam Select Switch High Beam Signal	(7) I	(7) —
(8) 8	(8) 0.35	(8) BK / GY	(8) 6009	(8) Windshield Wiper Switch Low Reference	(8) I	(8) —
(9) 9	(9) 0.5	(9) GY	(9) 1715	(9) Windshield Wiper Switch High Signal	(9) I	(9) —
(10) 10	(10) 0.35	(10) YE / BU	(10) 1714	(10) Windshield Wiper Switch Low Signal	(10) I	(10) —

S79D Front Side Door Window Control Switch - Driver X1



2871905

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Driver
- OEM Connector: 7287-3260-30
- Service Connector: Service by Harness - See Part Catalog
- Description: 24-Way F 0.64 GEN-Y, 1.5, 2.8 YESC Series(BK)

Terminal Part Information

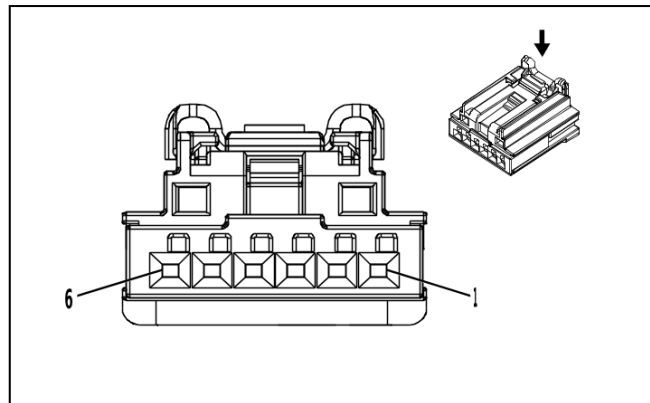
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required
III	Not required	J-35616-4A (PU)	No Tool Required
IV	Not required	J-35616-64B (L-BU)	No Tool Required

S79D Front Side Door Window Control Switch - Driver X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / BN	(1) 2764	(1) Window Switch Left Front Down Signal	(1) III	(1) —
(2) 2	(2) 0.5	(2) GN	(2) 2766	(2) Power Window Switch Left Front Express Signal	(2) IV	(2) —
(3) 3	(3) 0.5	(3) BN / YE	(3) 2771	(3) Left Front Door Lock Switch Lock Signal	(3) IV	(3) —
(4) 4	(4) 0.5	(4) BN / WH	(4) 2772	(4) Left Front Door Lock Switch Unlock Signal	(4) IV	(4) —
(5) 5	(5) 0.5	(5) GY / VT	(5) 2767	(5) LED Ambient Lighting Control Left Front Door	(5) IV	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) BN / GY	(7) 4784	(7) Left Front Door LED Backlight Dimming Control	(7) IV	(7) —
(8) 8	(8) 0.35	(8) GY / YE	(8) 1760	(8) Left Side Object Detection LED Control	(8) IV	(8) —
(9) 9	(9) 0.5	(9) WH / GN	(9) 2786	(9) Left Front Mirror Motor Fold In Control	(9) IV	(9) —
(10) 10	(10) 0.5	(10) YE / BN	(10) 2789	(10) Left Front Mirror Motor Common Control	(10) IV	(10) —
(11) 11	(11) 0.5	(11) BK	(11) 1550	(11) Ground	(11) III	(11) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(12) 12	(12) 0.5	(12) GY / WH	(12) 2785	(12) Left Front Mirror Motor Fold Out Control	(12) I	(12) —
13 - 16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.5	(17) WH / VT	(17) 4258	(17) Left Front Door Lock Status Signal	(17) IV	(17) —
(18) 18	(18) 0.5	(18) VT / BU	(18) 2788	(18) Left Front Mirror Motor Up [+] Down [-] Control	(18) IV	(18) —
(19) 19	(19) 0.5	(19) BN / BK	(19) 2790	(19) Left Front Mirror Motor Right [+] Left [-] Control	(19) IV	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.5	(21) GN / YE	(21) 6134	(21) Body Control Module LIN Bus 3	(21) IV	(21) —
(22) 22	(22) 0.5	(22) WH	(22) 606	(22) Left Outside Rearview Mirror Heater Control	(22) II	(22) —
(23) 23	(23) 0.5	(23) GY / GN	(23) 2763	(23) Window Switch Left Front Up Signal	(23) III	(23) —
(24) 24	(24) 0.5	(24) RD / BU	(24) 1240	(24) Battery Positive Voltage	(24) III	(24) —

S79D Front Side Door Window Control Switch - Driver X2 (A45)



4145138

Connector Part Information

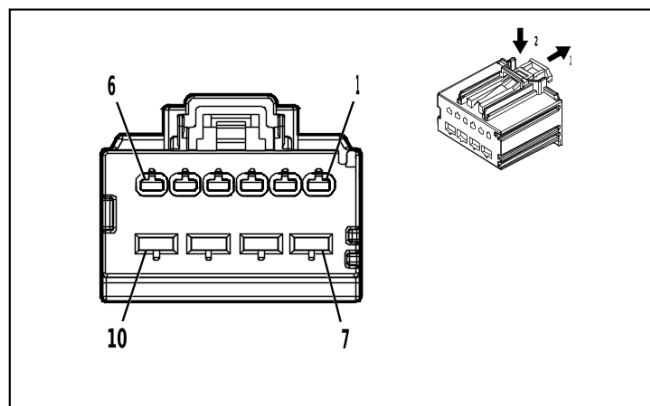
- Harness Type: Front Side Door Door Lock Door Wiring Harness - Driver
- OEM Connector: 2035363-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S79D Front Side Door Window Control Switch - Driver X2 (A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / YE	(1) 2792	(1) Left Front Mirror Position Sensor Left [-] Right [+] Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) GY / BN	(2) 2787	(2) Left Front Mirror Position Sensor Up [+] Down [-] Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) VT / RD	(3) 2791	(3) Left Front Mirror Position Sensor High Reference	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / BN	(4) 673	(4) Left Outside Rearview Mirror Position Sensor Low Reference	(4) I	(4) —
5 - 6	—	—	—	Not Occupied	—	—

S79LR Rear Side Door Window Switch - Left

5035058

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Left Rear
- OEM Connector: 31372-1600
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 1.5, 2.8 MX Series(BK)

Terminal Part Information

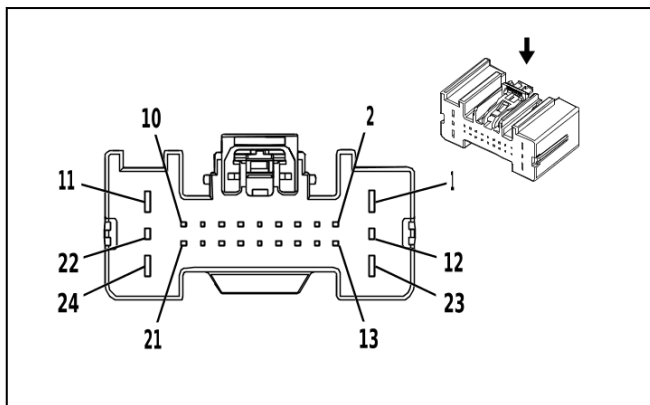
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

S79LR Rear Side Door Window Switch - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / GY	(1) 6135	(1) Body Control Module LIN Bus 4	(1) I	(1) —
(2) 2	(2) 0.5	(2) GY	(2) 747	(2) Left Rear Door Ajar Switch Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK	(3) 1550	(3) Ground	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 2.5	(7) BK	(7) 1550	(7) Ground	(7) II	(7) —
(8) 8	(8) 2.5	(8) RD / BU	(8) 3240	(8) Battery Positive Voltage	(8) II	(8) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(9) 9	(9) 2	(9) BU / VT	(9) 668	(9) Left Rear Window Motor Up Control	(9) II	(9) —
(10) 10	(10) 2	(10) YE / BU	(10) 669	(10) Left Rear Window Motor Down Control	(10) II	(10) —

S79P Front Side Door Window Switch - Passenger X1



2871905

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Passenger
- OEM Connector: 7287-3260-30
- Service Connector: Service by Harness - See Part Catalog
- Description: 24-Way F 0.64 GEN-Y, 1.5, 2.8 YESC Series(BK)

Terminal Part Information

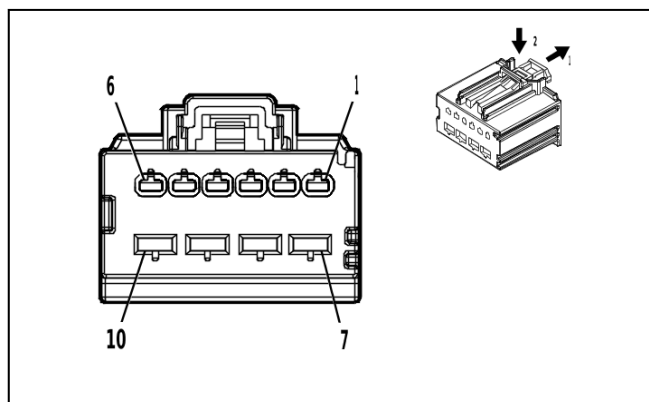
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required
III	Not required	J-35616-64B (L-BU)	No Tool Required

S79P Front Side Door Window Switch - Passenger X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BK	(1) 1350	(1) Ground	(1) II	(1) —
(2) 2	(2) 0.5	(2) YE / RD	(2) 2799	(2) Right Front Mirror Position Sensor High Reference	(2) III	(2) —
(3) 3	(3) 0.5	(3) GN / BK	(3) 2798	(3) Right Front Mirror Motor Right [+] Left [-] Control	(3) III	(3) —
(4) 4	(4) 0.5	(4) YE / VT	(4) 2796	(4) Right Front Mirror Motor Up [+] Down [-] Control	(4) III	(4) —
(5) 5	(5) 0.5	(5) WH / BN	(5) 2768	(5) LED Ambient Lighting Control Right Front Door	(5) III	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) GY / VT	(7) 4638	(7) LED Backlight Dimming Control Right Front Door	(7) III	(7) —
(8) 8	(8) 0.35	(8) GY	(8) 1761	(8) Right Side Object Detection LED Control	(8) III	(8) —
(9) 9	(9) 0.5	(9) BU / GY	(9) 2794	(9) Right Front Mirror Motor Fold In Control	(9) III	(9) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(10) 10	(10) 0.5	(10) YE / WH	(10) 2793	(10) Right Front Mirror Motor Fold Out Control	(10) III	(10) —
(11) 11	(11) 2.5 (11) 0.5	(11) GN / GY (11) GN	(11) 666 (11) 1184	(11) Right Front Window Motor Up Control (11) Window Switch Right Front Up Signal	(11) II (11) II	(11) AED (11) AEF
(12) 12	(12) 0.5	(12) BN / VT	(12) 607	(12) Right Outside Rearview Mirror Heater Control	(12) I	(12) —
13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.5	(14) GN / YE	(14) 6134	(14) Body Control Module LIN Bus 3	(14) III	(14) —
(15) 15	(15) 0.5	(15) VT / WH	(15) 2800	(15) Right Front Mirror Position Sensor Left [-] Right [+] Signal	(15) III	(15) —
(16) 16	(16) 0.5	(16) BU / YE	(16) 2795	(16) Right Front Mirror Position Sensor Up [+] Down [-] Signal	(16) III	(16) —
(17) 17	(17) 0.5	(17) YE / VT	(17) 2773	(17) Right Front Door Lock Switch Lock Control	(17) III	(17) —
(18) 18	(18) 0.5	(18) BN / VT	(18) 2774	(18) Right Front Door Lock Switch Unlock Control	(18) III	(18) —
19	—	—	—	Not Occupied	—	—
(20) 20	(20) 0.5 (20) 0.5	(20) GY (20) VT / GY	(20) 746 (20) 2765	(20) Right Front Door Ajar Switch Signal (20) Window Switch Right Front Express Signal	(20) III (20) III	(20) AED (20) AEF
(21) 21	(21) 0.5	(21) WH	(21) 2797	(21) Right Front Mirror Motor Common Control	(21) III	(21) —
(22) 22	(22) 0.5	(22) BK / GN	(22) 675	(22) Right Outside Rearview Mirror Position Sensor Low Reference	(22) I	(22) —
(23) 23	(23) 2.5	(23) RD / BN	(23) 4240	(23) Battery Positive Voltage	(23) II	(23) —
(24) 24	(24) 2.5 (24) 0.5	(24) YE / BU (24) BN	(24) 667 (24) 5295	(24) Right Front Window Motor Down Control (24) Window Switch Right Front Down Signal	(24) II (24) II	(24) AED (24) AEF

S79RR Rear Side Door Window Switch - Right



5035058

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Right Rear
- OEM Connector: 31372-1600
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 1.5, 2.8 MX Series(BK)

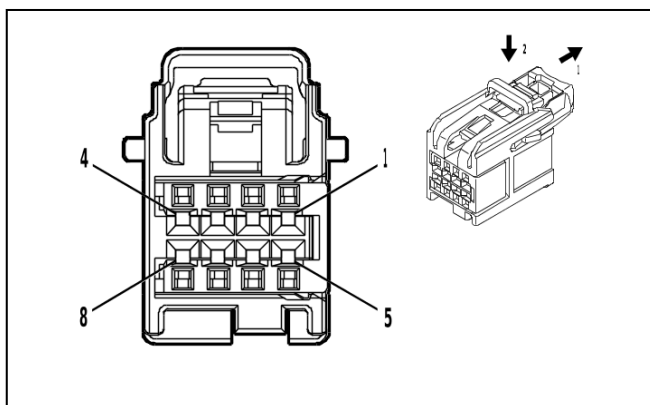
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

S79RR Rear Side Door Window Switch - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / GY	(1) 6135	(1) Body Control Module LIN Bus 4	(1) I	(1) —
(2) 2	(2) 0.5	(2) GY	(2) 748	(2) Right Rear Door Ajar Switch Signal	(2) I	(2) —
3 - 6	—	—	—	Not Occupied	—	—
(7) 7	(7) 2.5	(7) BK	(7) 1350	(7) Ground	(7) II	(7) —
(8) 8	(8) 2.5	(8) YE / BK	(8) 4840	(8) Battery Positive Voltage	(8) II	(8) —
(9) 9	(9) 2	(9) BU / GY	(9) 670	(9) Right Rear Window Motor Up Control	(9) II	(9) —
(10) 10	(10) 2	(10) GN / BK	(10) 671	(10) Right Rear Window Motor Down Control	(10) II	(10) —

S86 Vehicle Stability Control System Switch



4935776

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 15526972
- Service Connector: 19370429
- Description: 8-Way F 0.64 OCS Series(BK)

Terminal Part Information

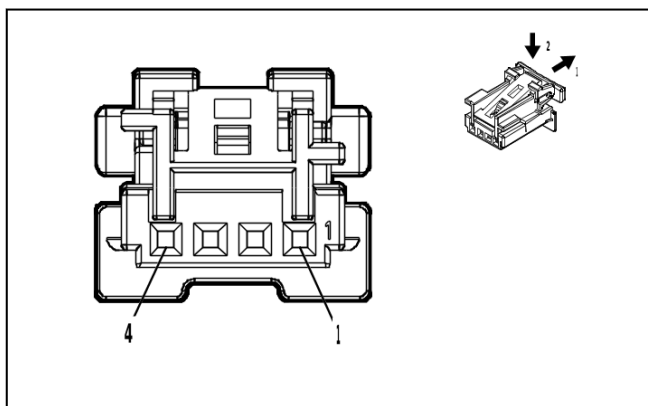
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

S86 Vehicle Stability Control System Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BU / VT	(1) 1788	(1) Traction Control Switch Signal 1	(1) I	(1) —
(2) 2	(2) 0.35	(2) YE	(2) 6817	(2) LED Backlight Dimming Control 1	(2) I	(2) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(3) 3	(3) 0.35	(3) BN	(3) 7291	(3) Major Endgate Release Switch Signal Interior	(3) I	(3) —
(4) 4	(4) 0.35	(4) BU / YE	(4) 6844	(4) ABS/Traction Control Hill Descent Control Switch Signal	(4) I	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.35	(6) BK / WH	(6) 851	(6) Signal Ground	(6) I	(6) —
(7) 7	(7) 0.35	(7) GN / WH	(7) 111	(7) Hazard Warning Switch Signal	(7) I	(7) —
(8) 8	(8) 0.35	(8) GY	(8) 1198	(8) Endgate Release Switch Analog Signal Interior	(8) I	(8) —

S91 Parking Brake Control Switch



4997407

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 2294218-1
- Service Connector: 19371192
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S91 Parking Brake Control Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) RD / YE	(1) 4340	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / YE	(2) 2731	(2) Brake System Control Module LIN Bus 1	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.35	(4) BK / WH	(4) 851	(4) Signal Ground	(4) I	(4) —

S148L Assist Step Switch - Left (BRS)**Connector Part Information**

- Harness Type: Assist Step Wire - Left
- OEM Connector: ANR88725
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

S148L Assist Step Switch - Left (BRS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 4746	(1) Running Board Step Left Kick Switch Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1151	(2) Signal Ground	(2) I	(2) —

S148R Assist Step Switch - Right (BRS)**Connector Part Information**

- Harness Type: Assist Step Wire - Right
- OEM Connector: ANR88725
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F

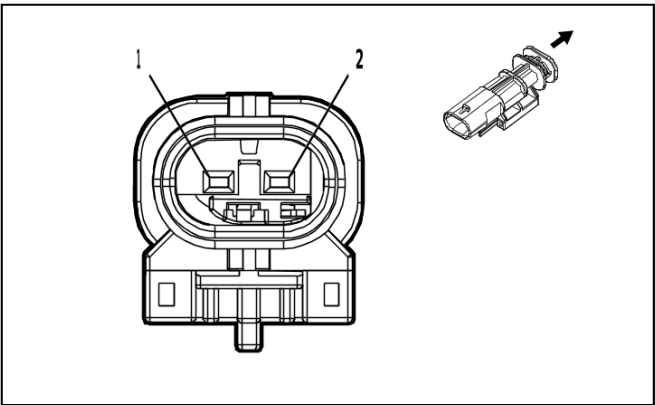
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

S148R Assist Step Switch - Right (BRS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 4747	(1) Running Board Step Right Kick Switch Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1151	(2) Signal Ground	(2) I	(2) —

S158 Liftgate Exterior Release Switch - Auxiliary Endgate (QT5)



4994410

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 34899-2081
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(GY)

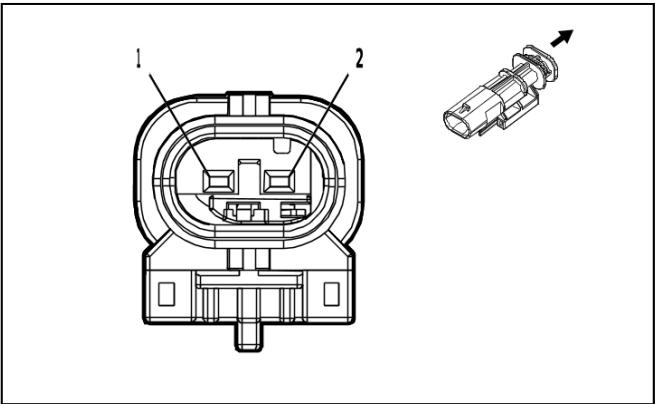
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

S158 Liftgate Exterior Release Switch - Auxiliary Endgate (QT5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE	(1) 7294	(1) Minor Endgate Release Switch Discrete Signal Exterior	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1850	(2) Ground	(2) I	(2) —

S159E Liftgate Exterior Release Switch - Endgate (QT5)



4994411

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 34899-2082
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(GY)

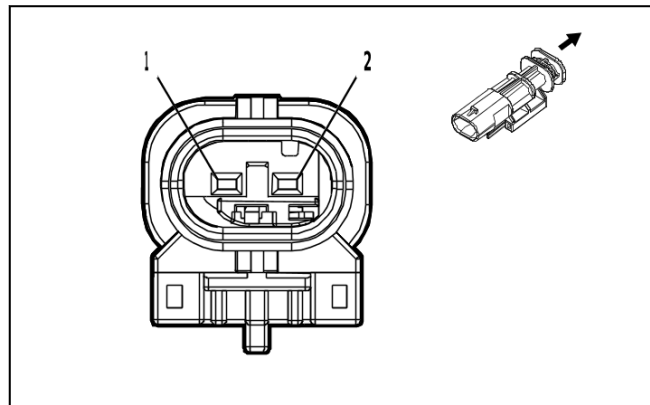
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

S159E Liftgate Exterior Release Switch - Endgate (QT5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY	(1) 7292	(1) Major Endgate Release Switch Signal Exterior	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1850	(2) Ground	(2) I	(2) —

S159E Liftgate Exterior Release Switch - Endgate (QT6)



4994411

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 34899-2082
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(GY)

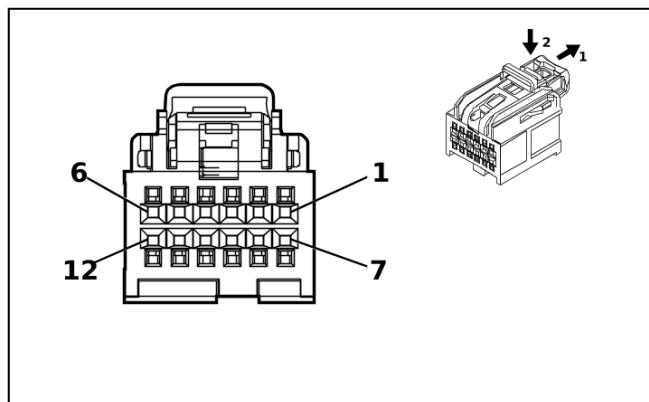
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

S159E Liftgate Exterior Release Switch - Endgate (QT6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE	(1) 1144	(1) Endgate Release Switch Discrete Signal Exterior	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1850	(2) Ground	(2) I	(2) —

S171L Instrument Panel Center Accessory Function Switch - Left



4975223

Connector Part Information

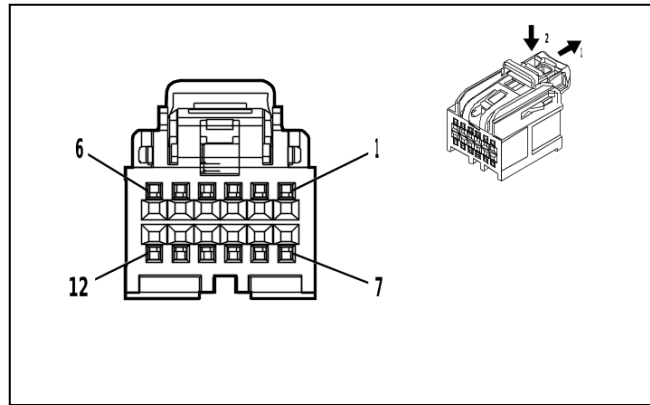
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35016616
- Service Connector: 13519750
- Description: 12-Way F 0.64 OCS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19354230	J-35616-64B (L-BU)	J-38125-215A

S171L Instrument Panel Center Accessory Function Switch - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GY / GN	(1) 2555	(1) Rear Parking Assist Disable Signal	(1) I	(1) —
(2) 2	(2) 0.35	(2) YE	(2) 6817	(2) LED Backlight Dimming Control 1	(2) I	(2) —
(3) 3	(3) 0.35	(3) BU / WH	(3) 3119	(3) Roof Rail Air Bag Disable Switch Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) GY / WH	(4) 3153	(4) Lane Departure Warning Disable Switch Signal	(4) I	(4) —
(5) 5	(5) 0.35	(5) WH	(5) 3152	(5) Lane Departure Warning Indicator Control	(5) I	(5) —
(6) 6	(6) 0.35	(6) BU / YE	(6) 6844	(6) ABS/Traction Control Hill Descent Control Switch Signal	(6) I	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.35	(8) GN / BN	(8) 5852	(8) Rear Parking Assist Disable LED Signal	(8) I	(8) —
(9) 9	(9) 0.35	(9) BK / WH	(9) 851	(9) Signal Ground	(9) I	(9) —
(10) 10	(10) 0.35	(10) BN / WH	(10) 3895	(10) Roof Rail Air Bag Disable Switch Low Reference	(10) I	(10) —
(11) 11	(11) 0.35	(11) GN	(11) 1110	(11) Stop/Start Indicator Control	(11) I	(11) —
(12) 12	(12) 0.35	(12) BU	(12) 1111	(12) Stop/Start Switch Signal	(12) I	(12) —

S171R Instrument Panel Center Accessory Function Switch - Right (- URC)

4997362

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35016613
- Service Connector: 13519752
- Description: 12-Way F 0.64 OCS Series(BN)

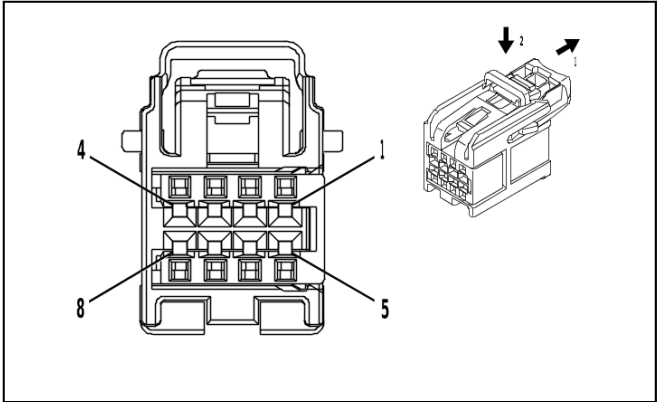
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300660	J-35616-64B (L-BU)	J-38125-215A

S171R Instrument Panel Center Accessory Function Switch - Right (- URC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.35	(2) YE	(2) 6817	(2) LED Backlight Dimming Control 1	(2) I	(2) —
(3) 3	(3) 0.35	(3) BU / YE	(3) 6844	(3) ABS/Traction Control Hill Descent Control Switch Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) YE / GN	(4) 7122	(4) Axle Differential Lock Switch Signal	(4) I	(4) —
(5) 5	(5) 0.35	(5) YE	(5) 7115	(5) Rear Axle Differential Lock Indicator Control	(5) I	(5) —
(6) 6	(6) 0.35	(6) GN	(6) 1110	(6) Stop/Start Indicator Control	(6) I	(6) —
(7) 7	(7) 0.35	(7) VT / GY	(7) 7117	(7) Front Axle Differential Lock Indicator Control	(7) I	(7) —
(8) 8	(8) 0.35	(8) BU / YE	(8) 7176	(8) All Windows Open Switch Signal	(8) I	(8) —
(9) 9	(9) 0.35	(9) BK / WH	(9) 851	(9) Signal Ground	(9) I	(9) —
(10) 10	(10) 0.3 5	(10) WH	(10) 6816	(10) Indicator Dimming Control	(10) I	(10) —
11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0.3 5 (12) 0.3 5	(12) BU (12) BU / GY	(12) 1111 (12) 4990	(12) Stop/Start Switch Signal (12) Driver Mode 1 Switch Signal	(12) I (12) I	(12) URC (12) - URC

S171R Instrument Panel Center Accessory Function Switch - Right (URC)



4232228

Connector Part Information

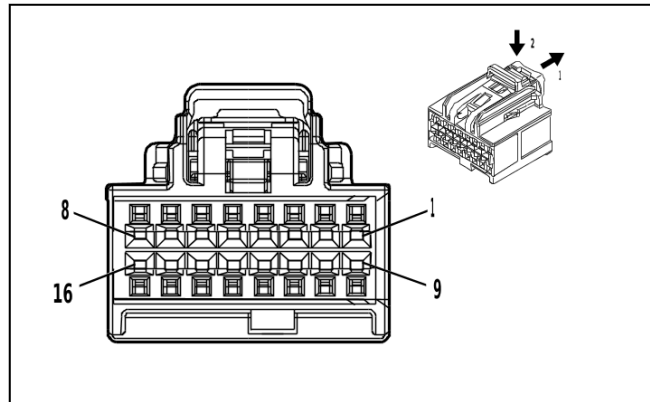
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 15526973
- Service Connector: 19353873
- Description: 8-Way F 0.64 OCS Series(GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

S171R Instrument Panel Center Accessory Function Switch - Right (URC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) WH / BN	(1) 2203	(1) Enhanced Driver Mode 2 Switch Signal	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) BK / VT	(3) 1449	(3) Steering Wheel Resistor Ladder Low Reference	(3) I	(3) —
(4) 4	(4) 0.35	(4) YE	(4) 6817	(4) LED Backlight Dimming Control 1	(4) I	(4) —
(5) 5	(5) 0.35	(5) BK / WH	(5) 851	(5) Signal Ground	(5) I	(5) —
6 - 8	—	—	—	Not Occupied	—	—

S172 Auxiliary Multifunction Switch (9L7)

4873243

Connector Part Information

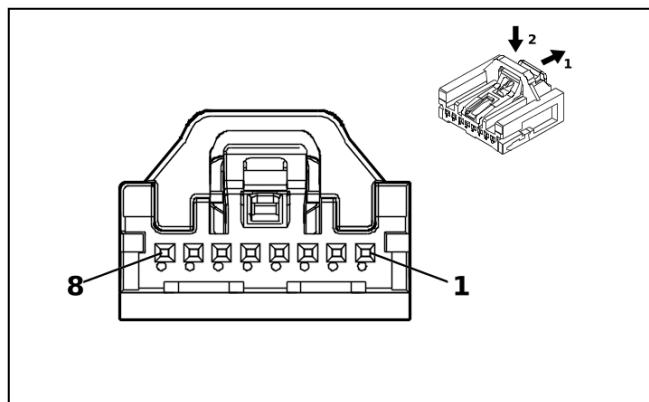
- Harness Type: Auxiliary Fuse Block Wiring Harness
- OEM Connector: 35016343
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way F 0.64 OCS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S172 Auxiliary Multifunction Switch (9L7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.35	(2) YE	(2) 6817	(2) LED Backlight Dimming Control 1	(2) I	(2) —
(3) 3	(3) 0.35	(3) WH	(3) 6816	(3) Indicator Dimming Control	(3) I	(3) —
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.35	(6) BU / WH	(6) 10716	(6) Upfitter Accessory Relay 1 Coil Control	(6) I	(6) —
(7) 7	(7) 0.35	(7) VT / GY	(7) 10717	(7) Upfitter Accessory Relay 2 Coil Control	(7) I	(7) —
(8) 8	(8) 0.35	(8) GN / BN	(8) 10718	(8) Upfitter Accessory Relay 3 Coil Control	(8) I	(8) —
(9) 9	(9) 0.35	(9) WH / YE	(9) 10719	(9) Upfitter Accessory Relay 4 Coil Control	(9) I	(9) —
(10) 10	(10) 0.35	(10) GY / VT	(10) 10720	(10) Upfitter Accessory Relay 5 Coil Control	(10) I	(10) —
11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0.75	(12) BK / WH	(12) 851	(12) Signal Ground	(12) I	(12) —
13 - 16	—	—	—	Not Occupied	—	—

S192 Radio Function Switch (IOR)

5200269

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35068228
- Service Connector: 84769201
- Description: 8-Way F Mini 50 Series(BK)

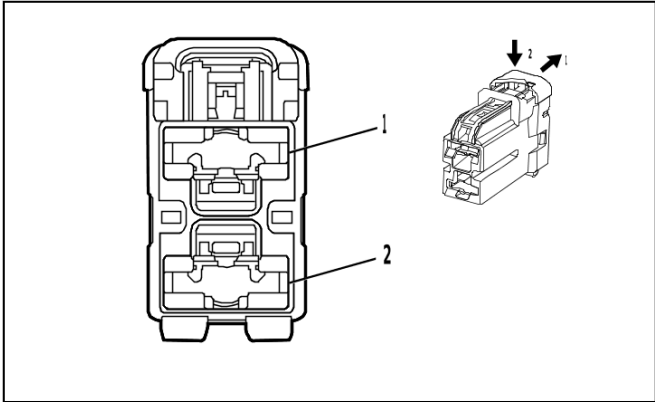
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

S192 Radio Function Switch (IOR)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) YE / RD	(1) 11236	(1) Radio Switch 5 Volt Reference	(1) I	(1) —
(2) 2	(2) 0.35	(2) BK / BU	(2) 11237	(2) Radio Switch Low Reference 1	(2) I	(2) —
(3) 3	(3) 0.35	(3) BN / WH	(3) 11233	(3) Radio Switch Power ON/OFF Switch Signal	(3) I	(3) —
(4) 4	(4) 0.35	(4) BK / GN	(4) 11238	(4) Radio Switch Low Reference 2	(4) I	(4) —
(5) 5	(5) 0.35	(5) BU / GY	(5) 11244	(5) Radio Switch Dimming Control	(5) I	(5) —
(6) 6	(6) 0.35	(6) VT / WH	(6) 11245	(6) Radio Switch Buttons Signal	(6) I	(6) —
(7) 7	(7) 0.35	(7) BU	(7) 11235	(7) Radio Switch Volume Up Signal	(7) I	(7) —
(8) 8	(8) 0.35	(8) GY / BN	(8) 11234	(8) Radio Switch Volume Down Signal	(8) I	(8) —

T1 DC/AC Converter Control Module X1 (KI4 / KI5)



2453116

- Connector Part Information**
- Harness Type: Body Wiring Harness
 - OEM Connector: 7283-0724-30
 - Service Connector: 85011842
 - Description: 2-Way F 9.5 Series(BK)

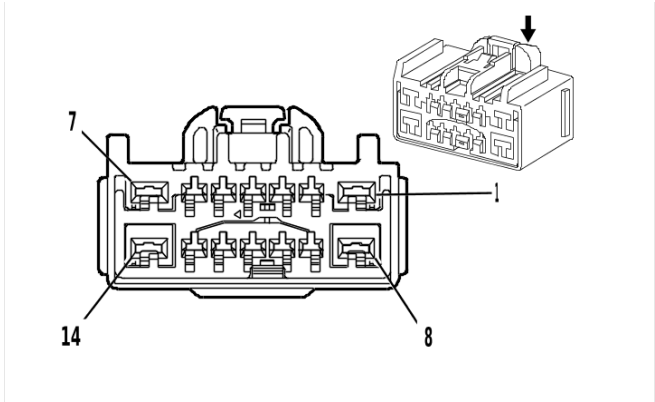
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-22 (RD)	No Tool Required

T1 DC/AC Converter Control Module X1 (KI4 / KI5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 5	(1) BN / BK	(1) 4629	(1) DC/AC Inverter Control	(1) I	(1) —
(2) 2	(2) 5	(2) BK	(2) 1550	(2) Ground	(2) I	(2) —

T1 DC/AC Converter Control Module X2



1540775

- Connector Part Information**
- Harness Type: Body Rear Wiring Harness Extension Harness
 - OEM Connector: 7289-7631-90
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 14-Way F 1.5, 2.8 YESC Series(BU)

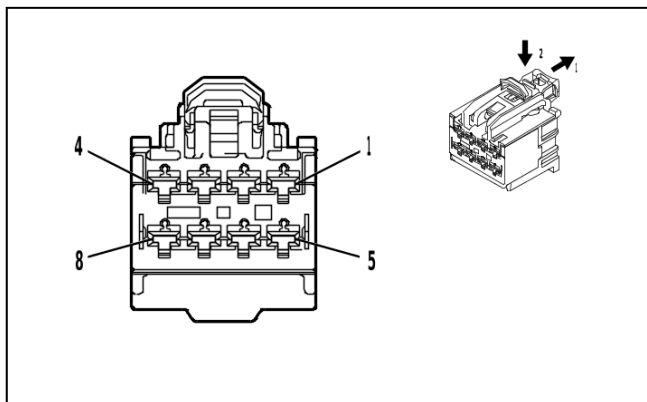
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

T1 DC/AC Converter Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 10117	(1) AC Outlet Phase A Control	(1) II	(1) —
(2) 2	(2) 0.5	(2) VT / RD	(2) 4049	(2) AC Power Outlet Sensor High Reference	(2) I	(2) —
(3) 3	(3) 0.35	(3) VT / WH	(3) 239	(3) Run/Crank Ignition 1 Voltage	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH / GN	(4) 4628	(4) DC/AC Inverter Relay Control	(4) I	(4) —
(5) 5	(5) 0.5	(5) BU / BN	(5) 6807	(5) DC/AC Inverter Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.75	(7) BK / WH	(7) 10120	(7) AC Outlet 2 Phase A Control	(7) II	(7) —
(8) 8	(8) 0.75	(8) RD	(8) 10118	(8) AC Outlet Phase B Control	(8) II	(8) —
(9) 9	(9) 0.35	(9) BARE	(9) 10116	(9) AC Outlet Low Reference	(9) I	(9) —
(10) 10	(10) 0.5	(10) GN / BU	(10) 6133	(10) Body Control Module LIN Bus 2	(10) I	(10) —
11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0.5	(12) GN / BN	(12) 2266	(12) DC/AC Inverter Control 2	(12) I	(12) —
(13) 13	(13) 0.3 ₅	(13) BARE	(13) 1011 ₉	(13) AC Outlet 2 Low Reference	(13) I	(13) —
(14) 14	(14) 0.7 ₅	(14) RD / WH	(14) 1012 ₁	(14) AC Outlet 2 Phase B Control	(14) II	(14) —

T3 Audio Amplifier X1 (UQA)



4875738

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33223792
- Service Connector: 19369366
- Description: 8-Way F 2.8 OCS Series(BK)

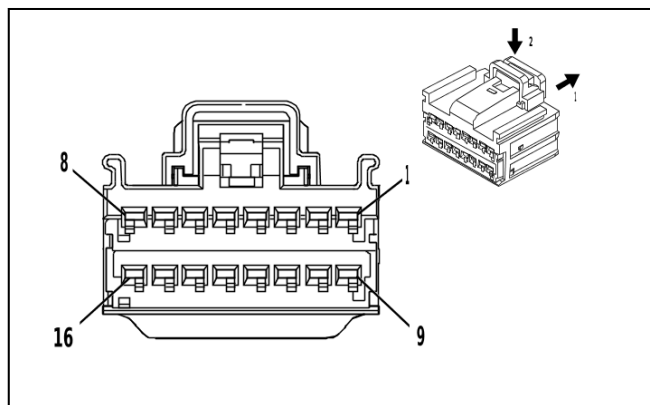
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required

T3 Audio Amplifier X1 (UQA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BU / GY	(1) 346	(1) Left/Rear Subwoofer [+] Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) YE	(2) 200	(2) Right Front Speaker 1 [+] Control	(2) I	(2) —
(3) 3	(3) 0.75	(3) BU	(3) 201	(3) Left Front Speaker 1 [+] Control	(3) I	(3) —
(4) 4	(4) 2.5	(4) RD / YE	(4) 3740	(4) Battery Positive Voltage	(4) I	(4) —
(5) 5	(5) 2.5	(5) GN / BK	(5) 1794	(5) Left/Rear Subwoofer [-] Control	(5) I	(5) —
(6) 6	(6) 0.75	(6) YE / BK	(6) 117	(6) Right Front Speaker [-] Control 1	(6) I	(6) —
(7) 7	(7) 0.75	(7) BN / BU	(7) 118	(7) Left Front Speaker [-] Control 1	(7) I	(7) —
(8) 8	(8) 2.5	(8) BK / WH	(8) 1051	(8) Signal Ground	(8) I	(8) —

T3 Audio Amplifier X2 (UQA)



4332214

Connector Part Information

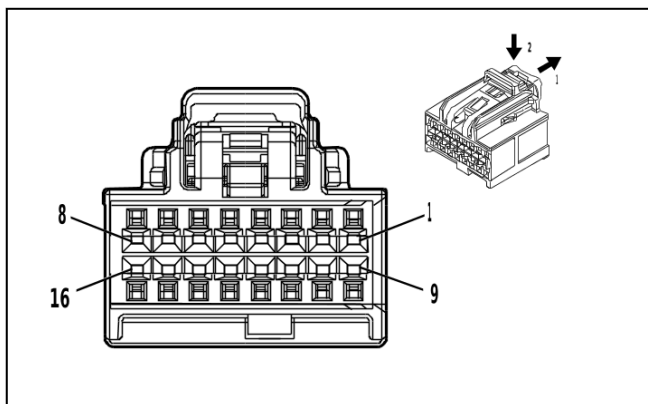
- Harness Type: Body Wiring Harness
- OEM Connector: 15512506
- Service Connector: 13591061
- Description: 16-Way F 1.5 OCS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84757974	J-35616-2A (GY)	J-38125-215A

T3 Audio Amplifier X2 (UQA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.75	(2) BN / BK	(2) 1953	(2) Right Front Midrange Speaker [-] Control	(2) I	(2) —
(3) 3	(3) 0.75	(3) BU / VT	(3) 1857	(3) Left Front Midrange Speaker [+] Control	(3) I	(3) —
(4) 4	(4) 1.5	(4) WH	(4) 46	(4) Right Rear Speaker [+] Control	(4) I	(4) —
(5) 5	(5) 1.5	(5) GN	(5) 199	(5) Left Rear Speaker [+] Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.75	(7) YE / WH	(7) 1860	(7) Front Center Speaker [+] Control	(7) I	(7) —
8 - 9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.7 5	(10) WH / YE	(10) 1853	(10) Right Front Midrange Speaker [+] Control	(10) I	(10) —
(11) 11	(11) 0.7 5	(11) BU / BN	(11) 1957	(11) Left Front Midrange Speaker [-] Control	(11) I	(11) —
(12) 12	(12) 1.5	(12) BU / BK	(12) 115	(12) Right Rear Speaker [-] Control	(12) I	(12) —
(13) 13	(13) 1.5	(13) GN / BK	(13) 116	(13) Left Rear Speaker [-] Control	(13) I	(13) —
14	—	—	—	Not Occupied	—	—
(15) 15	(15) 0.7 5	(15) BU / YE	(15) 1960	(15) Front Center Speaker [-] Control	(15) I	(15) —
16	—	—	—	Not Occupied	—	—

T3 Audio Amplifier X3 (UQA)

4873243

Connector Part Information

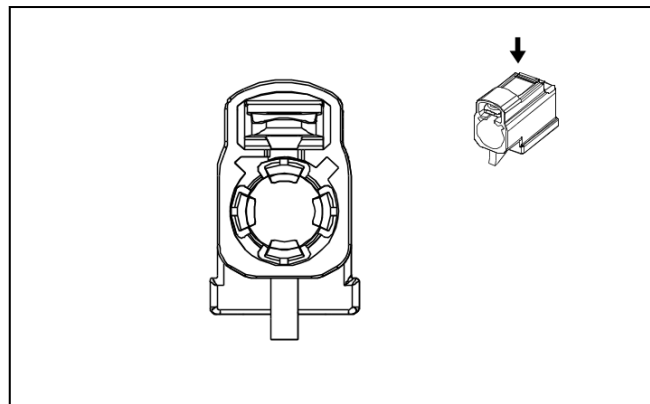
- Harness Type: Body Wiring Harness
- OEM Connector: 35016343
- Service Connector: 13519738
- Description: 16-Way F 0.64 OCS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19354230	J-35616-64B (L-BU)	J-38125-215A
II	Service by Cable	J-35616-64B (L-BU)	J-38125-215A

T3 Audio Amplifier X3 (UQA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) YE	(1) 7215	(1) Ethernet Bus 6 [+]	(1) II	(1) —
(2) 2	(2) 0.35	(2) GN	(2) 7214	(2) Ethernet Bus 6 [-]	(2) II	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.35	(5) GN / WH	(5) 3005	(5) Active Noise Cancellation Microphone 1 Signal	(5) I	(5) —
6 - 10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.5	(11) BU / WH	(11) 4985	(11) AUTOSAR CAN Bus [+] 5 Serial Data	(11) I	(11) —
(12) 12	(12) 0.5	(12) BU / YE	(12) 4984	(12) AUTOSAR CAN Bus [-] 5 Serial Data	(12) I	(12) —
(13) 13	(13) 0.35	(13) GN / BK	(13) 3008	(13) Active Noise Cancellation Microphone 1 Feedback Signal	(13) I	(13) —
14 - 16	—	—	—	Not Occupied	—	—

T4M Radio Antenna

3214010

Connector Part Information

- Harness Type: Radio Antenna Cable Extension Cable COAX
- OEM Connector: 12784301
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BK)

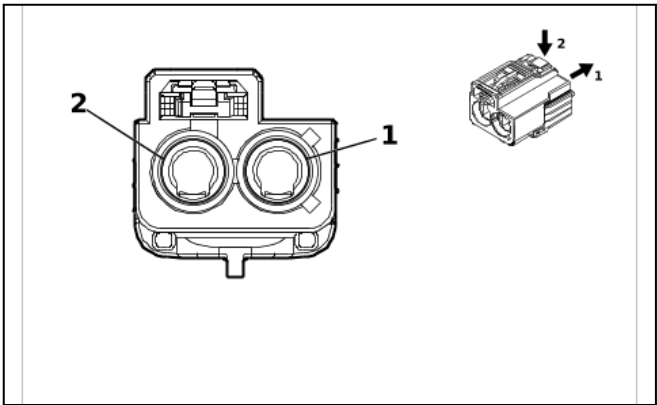
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

T4M Radio Antenna

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	(AM/FM) Antenna RF Signal	I	—

T4P High Frequency Antenna X1 (UDA / UE1)



5661671

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 33351060
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 2-Way F Coax Type(VT)

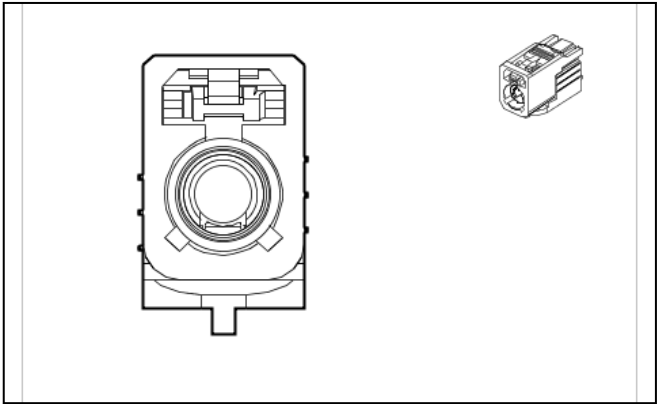
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

T4P High Frequency Antenna X1 (UDA / UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.8	(1) BK	(1) 3134	(1) Coaxial Antenna Cell/GPS Combined Signal	(1) I	(1) —
(2) 2	(2) 1	(2) BARE	(2) 6449	(2) Coaxial Antenna Cell Phone Signal	(2) I	(2) —

T4P High Frequency Antenna X2 (U2K)



5661657

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33351022
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(YE)

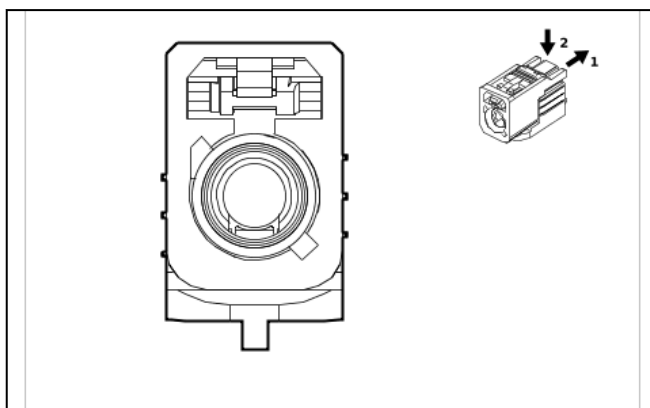
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

T4P High Frequency Antenna X2 (U2K)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	(XM +/-HD) Coaxial Antenna XM Signal	I	—

T4TA Auxiliary Wireless Communication Interface Antenna



5518436

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33351021
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BG)

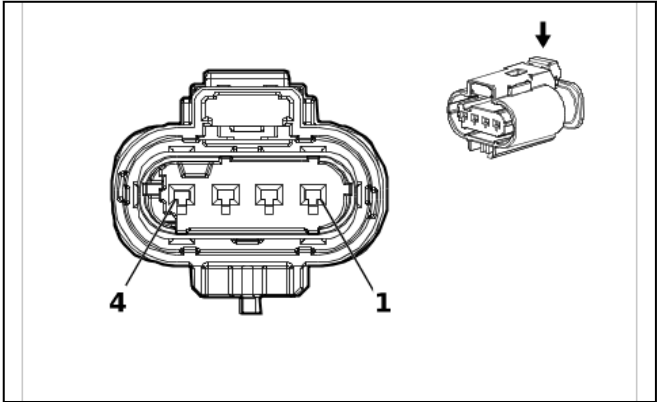
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

T4TA Auxiliary Wireless Communication Interface Antenna

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	WiFi Antenna Coaxial Signal	I	—

T8A Ignition Coil 1 (L3B)



5402120

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10092979
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2 Multilock Series, Sealed(BK)

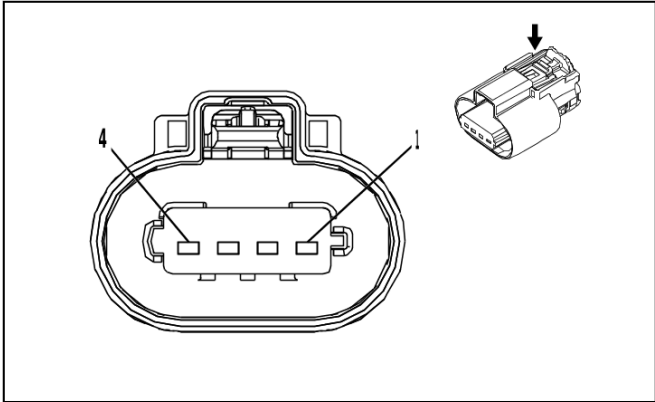
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

T8A Ignition Coil 1 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6450	(1) Engine Even Bank Ground	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK / BU	(2) 2129	(2) Ignition Control Low Reference Bank 1	(2) I	(2) —
(3) 3	(3) 0.75	(3) BU / VT	(3) 2121	(3) Ignition Control 1	(3) I	(3) —
(4) 4	(4) 1	(4) VT / BU	(4) 5291	(4) Powertrain Main Relay Fused Supply Voltage 2	(4) I	(4) —

T8A Ignition Coil 1 (L84 / L87)



3240115

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34770-0402
- Service Connector: 19367596
- Description: 4-Way F 1.5 MX Series, Sealed(BK)

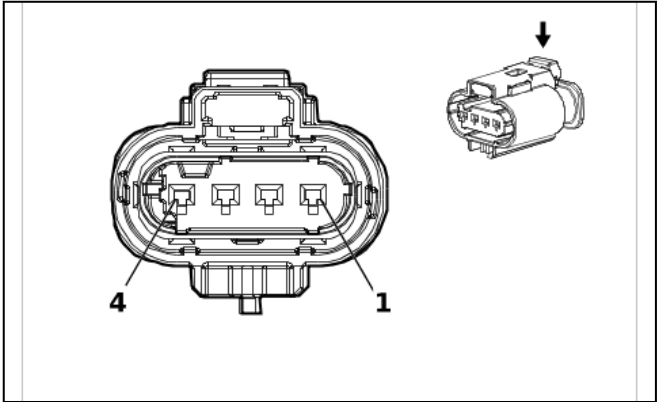
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required

T8A Ignition Coil 1 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6150	(1) Engine Odd Bank Ground	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / BU	(2) 2129	(2) Ignition Control Low Reference Bank 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / VT	(3) 2121	(3) Ignition Control 1	(3) I	(3) —
(4) 4	(4) 1	(4) VT / BU	(4) 5291	(4) Powertrain Main Relay Fused Supply Voltage ₂	(4) II	(4) —

T8B Ignition Coil 2 (L3B)



5402120

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10092979
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2 Multilock Series, Sealed(BK)

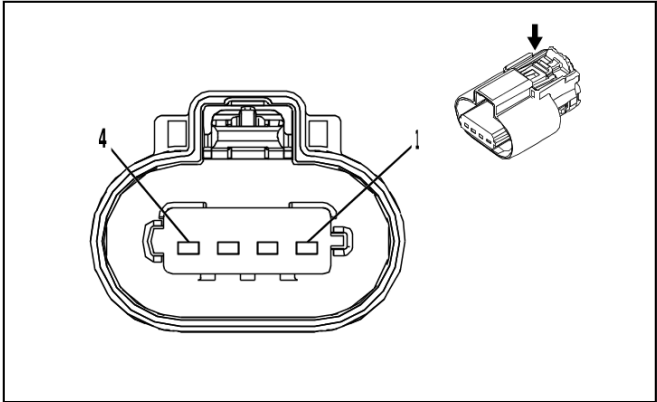
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

T8B Ignition Coil 2 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6450	(1) Engine Even Bank Ground	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK / BU	(2) 2129	(2) Ignition Control Low Reference Bank 1	(2) I	(2) —
(3) 3	(3) 0.75	(3) BU / WH	(3) 2122	(3) Ignition Control 2	(3) I	(3) —
(4) 4	(4) 1	(4) VT / BU	(4) 5291	(4) Powertrain Main Relay Fused Supply Voltage ₂	(4) I	(4) —

T8B Ignition Coil 2 (L84 / L87)



3240115

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34770-0402
- Service Connector: 19367596
- Description: 4-Way F 1.5 MX Series, Sealed(BK)

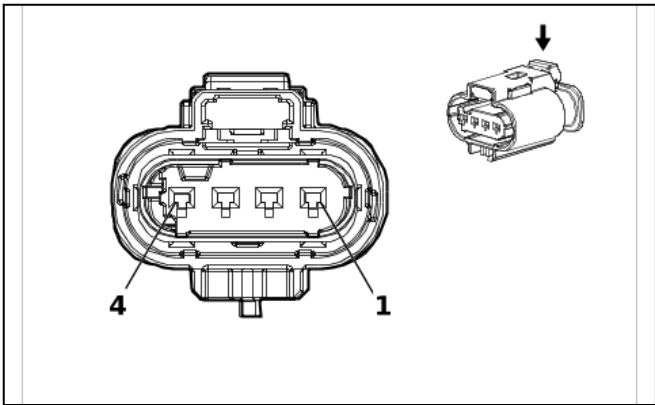
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required

T8B Ignition Coil 2 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6450	(1) Engine Even Bank Ground	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / GY	(2) 2130	(2) Ignition Control Low Reference Bank 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / WH	(3) 2122	(3) Ignition Control 2	(3) I	(3) —
(4) 4	(4) 1	(4) VT / BU	(4) 5292	(4) Powertrain Main Relay Fused Supply Voltage	(4) II	(4) —

T8C Ignition Coil 3 (L3B)



5402120

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10092979
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2 Multilock Series, Sealed(BK)

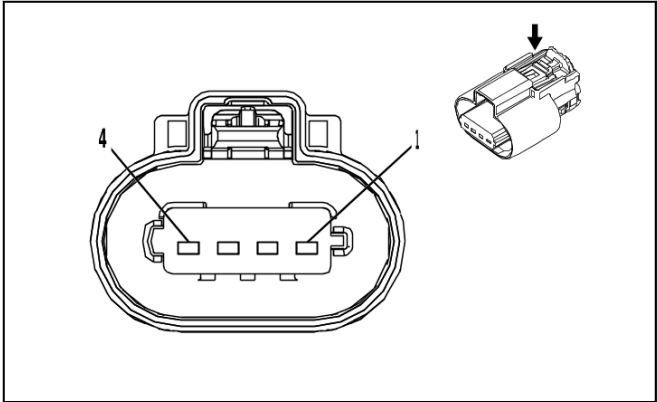
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

T8C Ignition Coil 3 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6450	(1) Engine Even Bank Ground	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK / BU	(2) 2129	(2) Ignition Control Low Reference Bank 1	(2) I	(2) —
(3) 3	(3) 0.75	(3) GN / BU	(3) 2123	(3) Ignition Control 3	(3) I	(3) —
(4) 4	(4) 1	(4) VT / BU	(4) 5291	(4) Powertrain Main Relay Fused Supply Voltage ₂	(4) I	(4) —

T8C Ignition Coil 3 (L84 / L87)



3240115

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34770-0402
- Service Connector: 19367596
- Description: 4-Way F 1.5 MX Series, Sealed(BK)

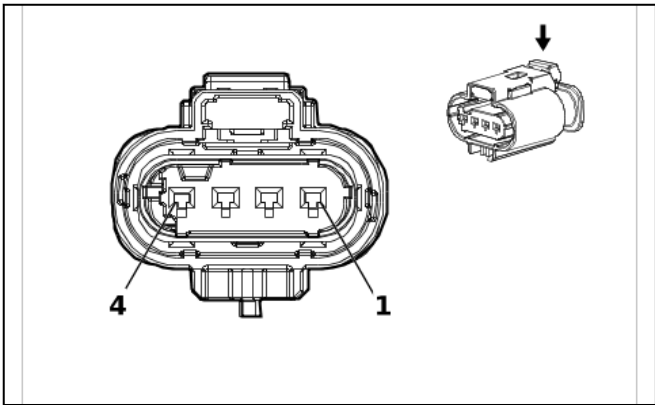
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required

T8C Ignition Coil 3 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6150	(1) Engine Odd Bank Ground	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / BU	(2) 2129	(2) Ignition Control Low Reference Bank 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / BU	(3) 2123	(3) Ignition Control 3	(3) I	(3) —
(4) 4	(4) 1	(4) VT / BU	(4) 5291	(4) Powertrain Main Relay Fused Supply Voltage 2	(4) II	(4) —

T8D Ignition Coil 4 (L3B)



5402120

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10092979
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2 Multilock Series, Sealed(BK)

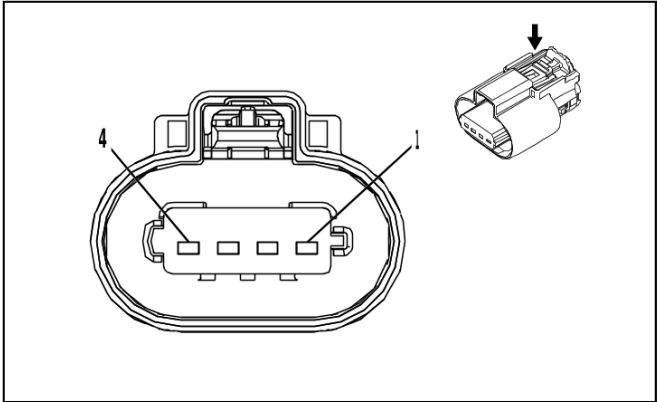
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

T8D Ignition Coil 4 (L3B)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6450	(1) Engine Even Bank Ground	(1) I	(1) —
(2) 2	(2) 0.75	(2) BK / BU	(2) 2129	(2) Ignition Control Low Reference Bank 1	(2) I	(2) —
(3) 3	(3) 0.75	(3) YE / BU	(3) 2124	(3) Ignition Control 4	(3) I	(3) —
(4) 4	(4) 1	(4) VT / BU	(4) 5291	(4) Powertrain Main Relay Fused Supply Voltage ₂	(4) I	(4) —

T8D Ignition Coil 4 (L84 / L87)



3240115

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34770-0402
- Service Connector: 19367596
- Description: 4-Way F 1.5 MX Series, Sealed(BK)

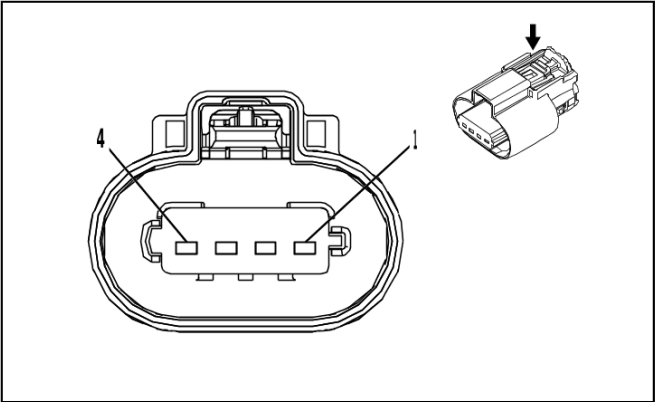
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required

T8D Ignition Coil 4 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6450	(1) Engine Even Bank Ground	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / GY	(2) 2130	(2) Ignition Control Low Reference Bank 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE / BU	(3) 2124	(3) Ignition Control 4	(3) I	(3) —
(4) 4	(4) 1	(4) VT / BU	(4) 5292	(4) Powertrain Main Relay Fused Supply Voltage	(4) II	(4) —

T8E Ignition Coil 5 (L84 / L87)



3240115

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34770-0402
- Service Connector: 19367596
- Description: 4-Way F 1.5 MX Series, Sealed(BK)

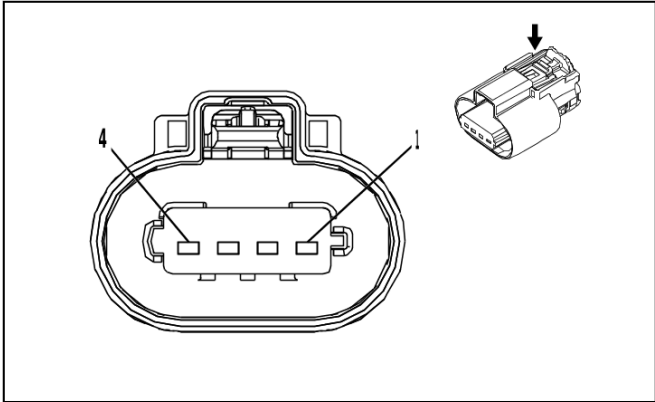
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required

T8E Ignition Coil 5 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6150	(1) Engine Odd Bank Ground	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / BU	(2) 2129	(2) Ignition Control Low Reference Bank 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / GY	(3) 2125	(3) Ignition Control 5	(3) I	(3) —
(4) 4	(4) 1	(4) VT / BU	(4) 5291	(4) Powertrain Main Relay Fused Supply Voltage 2	(4) II	(4) —

T8F Ignition Coil 6 (L84 / L87)



3240115

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34770-0402
- Service Connector: 19367596
- Description: 4-Way F 1.5 MX Series, Sealed(BK)

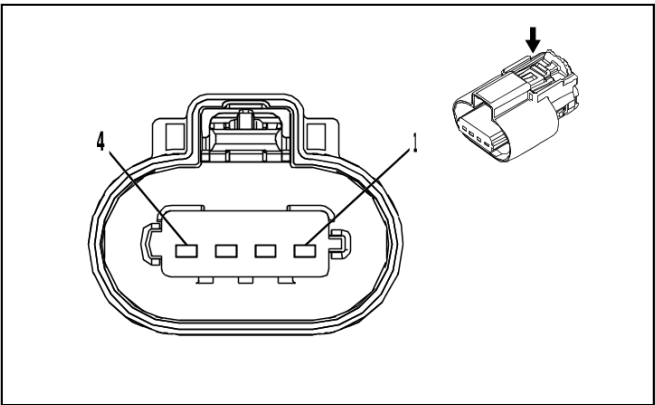
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required

T8F Ignition Coil 6 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6450	(1) Engine Even Bank Ground	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / GY	(2) 2130	(2) Ignition Control Low Reference Bank 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) BN / BU	(3) 2126	(3) Ignition Control 6	(3) I	(3) —
(4) 4	(4) 1	(4) VT / BU	(4) 5292	(4) Powertrain Main Relay Fused Supply Voltage	(4) II	(4) —

T8G Ignition Coil 7 (L84 / L87)



3240115

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34770-0402
- Service Connector: 19367596
- Description: 4-Way F 1.5 MX Series, Sealed(BK)

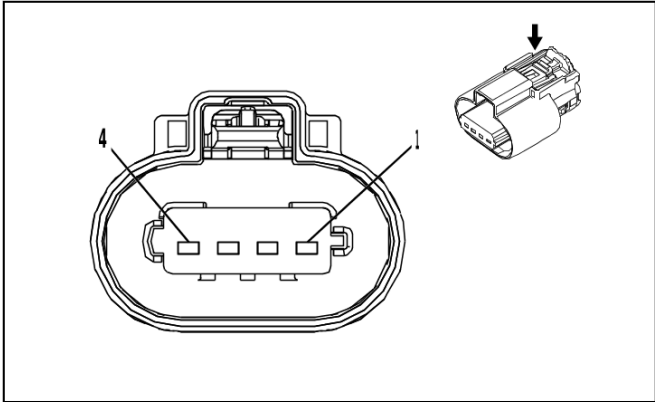
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required

T8G Ignition Coil 7 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6150	(1) Engine Odd Bank Ground	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / BU	(2) 2129	(2) Ignition Control Low Reference Bank 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / GY	(3) 2127	(3) Ignition Control 7	(3) I	(3) —
(4) 4	(4) 1	(4) VT / BU	(4) 5291	(4) Powertrain Main Relay Fused Supply Voltage 2	(4) II	(4) —

T8H Ignition Coil 8 (L84 / L87)



3240115

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34770-0402
- Service Connector: 19367596
- Description: 4-Way F 1.5 MX Series, Sealed(BK)

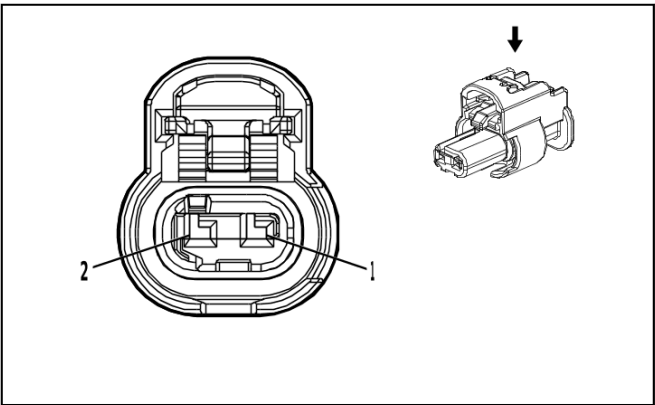
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required

T8H Ignition Coil 8 (L84 / L87)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6450	(1) Engine Even Bank Ground	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / GY	(2) 2130	(2) Ignition Control Low Reference Bank 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) VT / WH	(3) 2128	(3) Ignition Control 8	(3) I	(3) —
(4) 4	(4) 1	(4) VT / BU	(4) 5292	(4) Powertrain Main Relay Fused Supply Voltage	(4) II	(4) —

T10G Low Frequency Rear Bumper Antenna (AVJ)



4690744

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 1-2296694-3
- Service Connector: 19366871
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

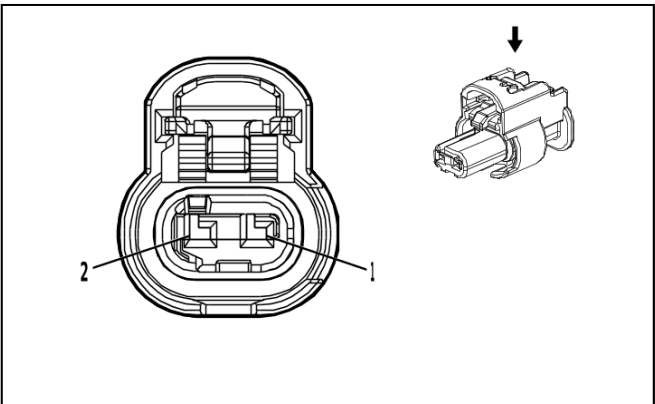
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

T10G Low Frequency Rear Bumper Antenna (AVJ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / GN	(1) 3568	(1) Rear Closure Passive Entry Antenna High Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / GY	(2) 3569	(2) Rear Closure Passive Entry Antenna Low Signal	(2) I	(2) —

T10J Low Frequency Instrument Panel Antenna (- D07)



4690744

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 1-2296694-3
- Service Connector: 19366871
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

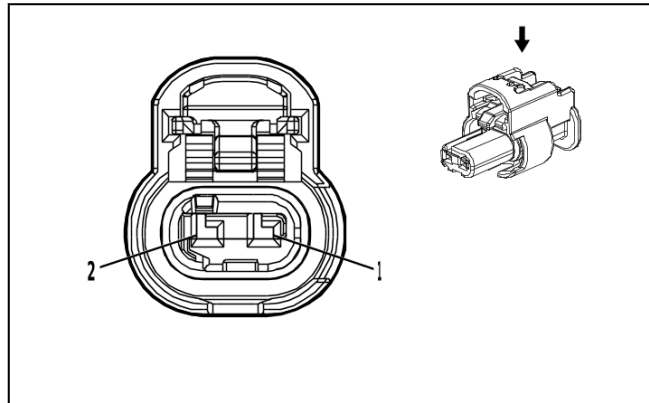
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

T10J Low Frequency Instrument Panel Antenna (- D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BN / BK	(1) 3552	(1) Interior Passive Entry Antenna 1 High Signal	(1) I	(1) - D07
(2) 2	(2) 0.35	(2) WH	(2) 3553	(2) Interior Passive Entry Antenna 1 Low Signal	(2) I	(2) - D07

T10KA Low Frequency Console Number 2 Antenna (D07)



4690744

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 33375932
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

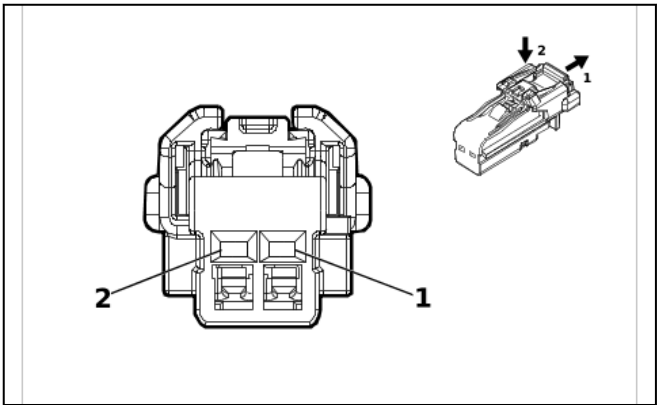
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

T10KA Low Frequency Console Number 2 Antenna (D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) BN / BK	(1) 3552	(1) Interior Passive Entry Antenna 1 High Signal	(1) I	(1) —
(2) 2	(2) —	(2) WH	(2) 3553	(2) Interior Passive Entry Antenna 1 Low Signal	(2) I	(2) —

T10UA Low Frequency Console Antenna (- D07)



4115691

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Center
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

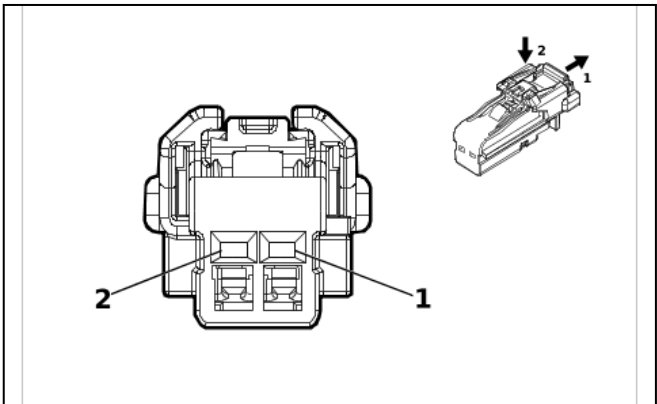
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

T10UA Low Frequency Console Antenna (- D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / BK	(1) 4996	(1) Immobilizer Antenna Signal [+]	(1) I	(1) - D07
(2) 2	(2) 0.5	(2) WH / GY	(2) 4997	(2) Immobilizer Antenna Low Signal	(2) I	(2) - D07

T10UA Low Frequency Console Antenna (D07)



4115691

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

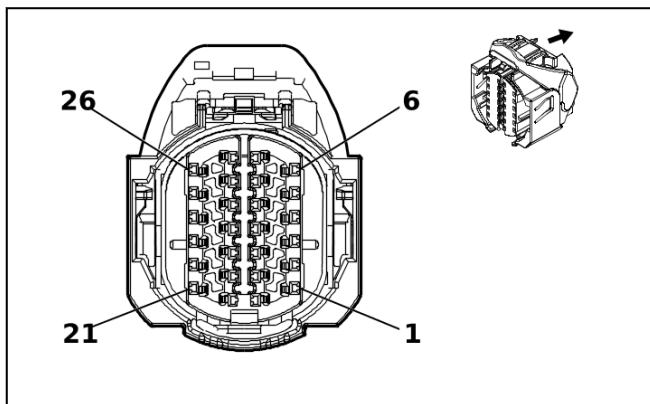
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

T10UA Low Frequency Console Antenna (D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BN / BK	(1) 4996	(1) Immobilizer Antenna Signal [+]	(1) I	(1) —
(2) 2	(2) 0.35	(2) WH / GY	(2) 4997	(2) Immobilizer Antenna Low Signal	(2) I	(2) —

T12 Automatic Transmission X1



5275597

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2327375-1
- Service Connector: 13528029
- Description: 26-Way F 1.2 MCON Series, Sealed(BK)

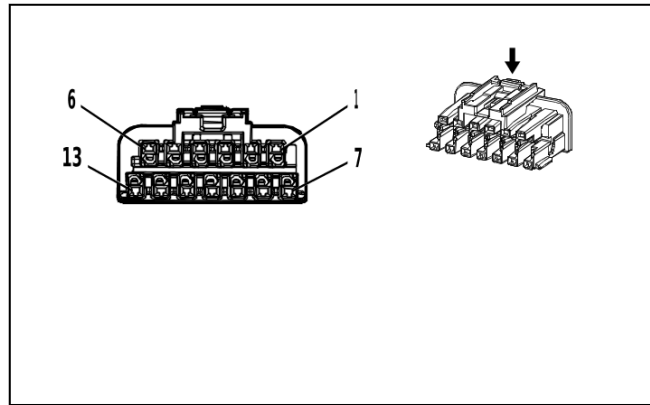
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19331733	J-35616-12 (BU)	J-38125-553
II	84963773	J-35616-12 (BU)	J-38125-215A
III	Not required	No Tool Required	No Tool Required

T12 Automatic Transmission X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / YE	(1) 2159	(1) Park Inhibit Solenoid Assembly Control	(1) III	(1) —
(2) 2	(2) 0.5	(2) GN / VT	(2) 4510	(2) Transmission Intermediate Speed Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) BN / WH	(3) 6254	(3) Transmission Input Speed Sensor Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) GY / BU	(4) 6358	(4) Output Speed Signal	(4) I	(4) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(5) 5	(5) 0.5	(5) WH / YE	(5) 6317	(5) Electronic Transmission Range Select Out of Park Switch Signal	(5) III	(5) —
(6) 6	(6) 0.5	(6) VT / WH	(6) 6319	(6) Electronic Transmission Range Select Out of Park Switch 2 Signal	(6) III	(6) —
(7) 7	(7) 0.5	(7) YE / GN	(7) 4170	(7) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(7) I	(7) —
(8) 8	(8) 0.5	(8) YE / BU	(8) 4171	(8) Transmission Input Shaft Speed Sensor Circuit 9V Reference	(8) I	(8) —
(9) 9	(9) 0.5	(9) GY / BN	(9) 6388	(9) Transmission High Side Driver 2 Control	(9) I	(9) —
(10) 10	(10) 1.5	(10) RD / GY	(10) 8540	(10) Battery Positive Voltage	(10) II	(10) —
(11) 11	(11) 0.5	(11) GN / GY	(11) 6387	(11) Transmission High Side Driver 1 Control	(11) I	(11) —
(12) 12	(12) 0.5	(12) WH / YE	(12) 2159	(12) Park Inhibit Solenoid Assembly Control	(12) III	(12) —
(13) 13	(13) 0.5	(13) BN / WH	(13) 585	(13) Transmission Fluid Temperature Sensor Signal	(13) I	(13) —
(14) 14	(14) 0.5	(14) YE / BN	(14) 6404	(14) Clutch Solenoid Valve E Control	(14) I	(14) —
(15) 15	(15) 0.5	(15) GY / GN	(15) 6403	(15) Clutch Solenoid Valve D Control	(15) I	(15) —
(16) 16	(16) 0.5	(16) GY	(16) 6402	(16) Clutch Solenoid Valve C Control	(16) I	(16) —
(17) 17	(17) 1.5	(17) BK	(17) 450	(17) Ground	(17) II	(17) —
(18) 18	(18) 0.5	(18) GN / WH	(18) 2968	(18) Transmission Auxiliary Fluid Pump Control	(18) I	(18) —
(19) 19	(19) 0.5	(19) GN / BK	(19) 7819	(19) Default Disable Solenoid Control	(19) I	(19) —
(20) 20	(20) 0.5	(20) BN	(20) 3706	(20) Electronic Transmission Range Select Switch Analog Signal 1	(20) III	(20) —
(21) 21	(21) 0.5	(21) VT	(21) 4509	(21) Transmission Clutch F Control	(21) I	(21) —
(22) 22	(22) 0.5	(22) WH / BU	(22) 4507	(22) Transmission Clutch H Control	(22) I	(22) —
(23) 23	(23) 0.5	(23) WH	(23) 4508	(23) Transmission Clutch G Control	(23) I	(23) —
(24) 24	(24) 0.5	(24) GN / WH	(24) 1530	(24) Transmission Line Pressure Control Solenoid Valve Control	(24) I	(24) —
(25) 25	(25) 0.5	(25) VT / WH	(25) 422	(25) Torque Converter Clutch Solenoid Valve Control	(25) I	(25) —
(26) 26	(26) 0.5	(26) BK / BN	(26) 586	(26) Transmission Fluid Temperature Sensor Low Reference	(26) I	(26) —

T12 Automatic Transmission X2 (MHT / MI2 / MQB)

4757907

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 2203990-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 13-Way F 1.2 MCON Series(BN)

Terminal Part Information

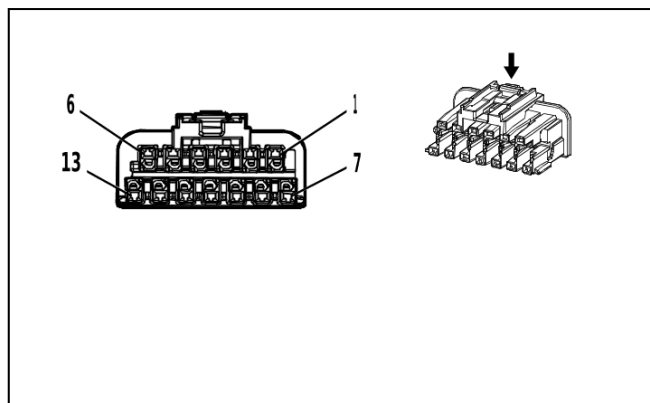
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required

T12 Automatic Transmission X2 (MHT / MI2 / MQB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / GY	(1) 3337	(1) Transmission Internal Mode Switch Mode Control Y	(1) II	(1) —
(2) 2	(2) 0.5	(2) YE	(2) 3338	(2) Transmission Internal Mode Switch Mode Control X	(2) II	(2) —
(3) 3	(3) 0.5	(3) YE / OG	(3) 6358	(3) Output Speed Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH / BU	(4) 6254	(4) Transmission Input Speed Sensor Signal	(4) I	(4) —
(5) 5	(5) 0.5	(5) VT / GN	(5) 4510	(5) Transmission Intermediate Speed Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) WH / VT	(6) 6353	(6) Input Speed Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) BN / YE	(7) 585	(7) Transmission Fluid Temperature Sensor Signal	(7) I	(7) —
(8) 8	(8) 0.5	(8) OG	(8) 480	(8) Engine Control Vehicle Sensors 5 Volt Reference 1	(8) I	(8) —
(9) 9	(9) 0.5	(9) BN	(9) 6387	(9) Transmission High Side Driver 1 Control	(9) I	(9) —
(10) 10	(10) 1.5	(10) GN / VT	(10) 8540	(10) Battery Positive Voltage	(10) I	(10) —
(11) 11	(11) 0.5	(11) WH	(11) 6388	(11) Transmission High Side Driver 2 Control	(11) I	(11) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(12) 12	(12) 0.5	(12) BU	(12) 4171	(12) Transmission Input Shaft Speed Sensor Circuit 9V Reference	(12) I	(12) —
(13) 13	(13) 0.5	(13) GN	(13) 4170	(13) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(13) I	(13) —

T12 Automatic Transmission X2 (MQC / MHS)



4757907

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 2203990-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 13-Way F 1.2 MCON Series(BN)

Terminal Part Information

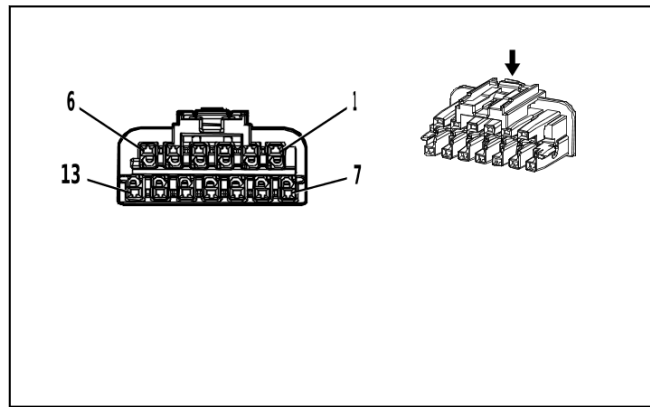
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required

T12 Automatic Transmission X2 (MQC / MHS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / GY	(1) 6319	(1) Electronic Transmission Range Select Out of Park Switch 2 Signal	(1) II	(1) —
(2) 2	(2) 0.5	(2) YE	(2) 6317	(2) Electronic Transmission Range Select Out of Park Switch Signal	(2) II	(2) —
(3) 3	(3) 0.5	(3) YE / OG	(3) 6358	(3) Output Speed Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH / BU	(4) 6254	(4) Transmission Input Speed Sensor Signal	(4) I	(4) —
(5) 5	(5) 0.5	(5) VT / GN	(5) 4510	(5) Transmission Intermediate Speed Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) WH / VT	(6) 6353	(6) Input Speed Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) BN / YE	(7) 585	(7) Transmission Fluid Temperature Sensor Signal	(7) I	(7) —
(8) 8	(8) 0.5	(8) OG	(8) 2159	(8) Park Inhibit Solenoid Assembly Control	(8) I	(8) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(9) 9	(9) 0.5	(9) BN	(9) 6387	(9) Transmission High Side Driver 1 Control	(9) I	(9) —
(10) 10	(10) 1.5	(10) GN / VT	(10) 8540	(10) Battery Positive Voltage	(10) I	(10) —
(11) 11	(11) 0.5	(11) WH	(11) 6388	(11) Transmission High Side Driver 2 Control	(11) I	(11) —
(12) 12	(12) 0.5	(12) BU	(12) 4171	(12) Transmission Input Shaft Speed Sensor Circuit 9V Reference	(12) I	(12) —
(13) 13	(13) 0.5	(13) GN	(13) 4170	(13) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(13) I	(13) —

T12 Automatic Transmission X3 (MHS / MQC)



4757999

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 2203990-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 13-Way F 1.2 MCON Series(BN)

Terminal Part Information

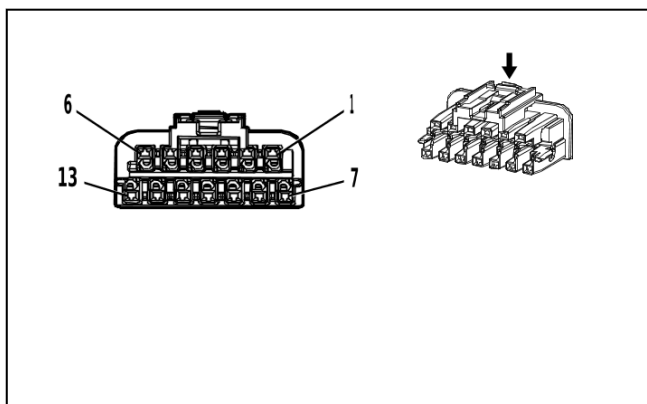
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

T12 Automatic Transmission X3 (MHS / MQC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / WH	(1) 4509	(1) Transmission Clutch F Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / VT	(2) 4507	(2) Transmission Clutch H Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / GY	(3) 4508	(3) Transmission Clutch G Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) GN / OG	(4) 1530	(4) Transmission Line Pressure Control Solenoid Valve Control	(4) I	(4) —
(5) 5	(5) 0.5	(5) GY / BN	(5) 422	(5) Torque Converter Clutch Solenoid Valve Control	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / BN	(6) 586	(6) Transmission Fluid Temperature Sensor Low Reference	(6) I	(6) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(7) 7	(7) 0.5	(7) BU / GN	(7) 6404	(7) Clutch Solenoid Valve E Control	(7) I	(7) —
(8) 8	(8) 0.5	(8) GN / BN	(8) 6403	(8) Clutch Solenoid Valve D Control	(8) I	(8) —
(9) 9	(9) 0.5	(9) GY	(9) 6402	(9) Clutch Solenoid Valve C Control	(9) I	(9) —
(10) 10	(10) 1.5	(10) BK / YE	(10) 450	(10) Ground	(10) I	(10) —
(11) 11	(11) 0.5	(11) GY / OG	(11) 2968	(11) Transmission Auxiliary Fluid Pump Control	(11) I	(11) —
(12) 12	(12) 0.5	(12) VT	(12) 7819	(12) Default Disable Solenoid Control	(12) I	(12) —
(13) 13	(13) 0.5	(13) BK / GY	(13) 3706	(13) Electronic Transmission Range Select Switch Analog Signal 1	(13) I	(13) —

T12 Automatic Transmission X3 (MHT / MI2 / MQB)



4757999

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 2203990-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 13-Way F 1.2 MCON Series(BN)

Terminal Part Information

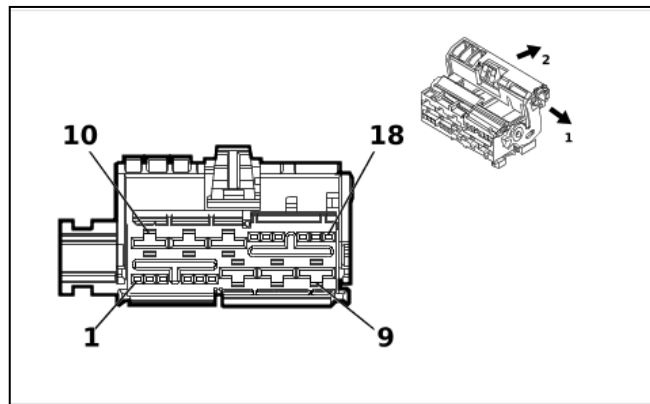
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required

T12 Automatic Transmission X3 (MHT / MI2 / MQB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / WH	(1) 4509	(1) Transmission Clutch F Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / VT	(2) 4507	(2) Transmission Clutch H Control	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / GY	(3) 4508	(3) Transmission Clutch G Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) GN / OG	(4) 1530	(4) Transmission Line Pressure Control Solenoid Valve Control	(4) I	(4) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(5) 5	(5) 0.5	(5) GY / BN	(5) 422	(5) Torque Converter Clutch Solenoid Valve Control	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / BN	(6) 586	(6) Transmission Fluid Temperature Sensor Low Reference	(6) I	(6) —
(7) 7	(7) 0.5	(7) BU / GN	(7) 6404	(7) Clutch Solenoid Valve E Control	(7) I	(7) —
(8) 8	(8) 0.5	(8) GN / BN	(8) 6403	(8) Clutch Solenoid Valve D Control	(8) I	(8) —
(9) 9	(9) 0.5	(9) GY	(9) 6402	(9) Clutch Solenoid Valve C Control	(9) I	(9) —
(10) 10	(10) 1.5	(10) BK / YE	(10) 450	(10) Ground	(10) I	(10) —
(11) 11	(11) 0.5	(11) GY / OG	(11) 2968	(11) Transmission Auxiliary Fluid Pump Control	(11) I	(11) —
(12) 12	(12) 0.5	(12) VT	(12) 7819	(12) Default Disable Solenoid Control	(12) I	(12) —
(13) 13	(13) 0.5	(13) BK / GY	(13) 626	(13) Engine Control Vehicle Sensors Low Reference 1	(13) I	(13) —

T19 Multifunction Power Supply Converter



3825662

Connector Part Information

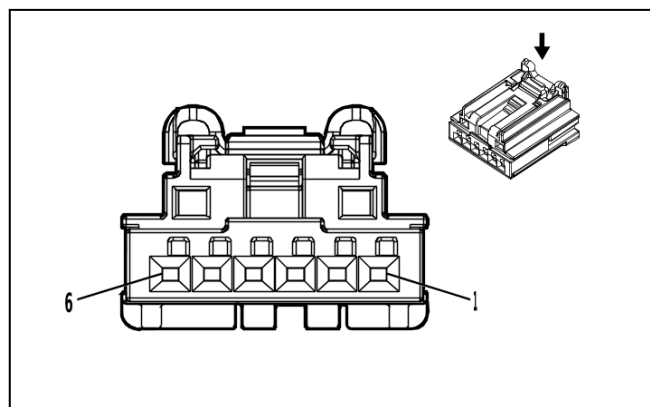
- Harness Type: Body Wiring Harness
- OEM Connector: 35509388
- Service Connector: 13549243
- Description: 18-Way F 0.64 MTS, 6.3 MCP Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300632	J-35616-64B (L-BU)	J-38125-215A
II	19367600	J-35616-42 (RD)	J-38125-556

T19 Multifunction Power Supply Converter

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.5 (4) 0.35	(4) VT / GN (4) VT / GN	(4) 4320 (4) 4320	(4) Powertrain Sensor Bus Enable (4) Powertrain Sensor Bus Enable	(4) I (4) I	(4) D07+ FHX+ (MQC/ MHS) (4) D07+ FJW-L3B- L84- L87+ (MQC/ MHS)
(5) 5	(5) 0.5	(5) YE / BK	(5) 625	(5) Starter Enable Relay Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 2.5	(7) BK	(7) 1350	(7) Ground	(7) II	(7) —
(8) 8	(8) 2.5	(8) RD / YE	(8) 8140	(8) Battery Positive Voltage	(8) II	(8) —
(9) 9	(9) 2.5	(9) RD / GN	(9) 2173	(9) 12V Regulated Supply Voltage 2	(9) II	(9) —
(10) 10	(10) 2.5	(10) RD / YE	(10) 2172	(10) 12V Regulated Supply Voltage 1	(10) II	(10) —
(11) 11	(11) 2.5	(11) RD / WH	(11) 8040	(11) Battery Positive Voltage	(11) II	(11) —
(12) 12	(12) 2.5	(12) BK	(12) 1350	(12) Ground	(12) II	(12) —
(13) 13	(13) 0.5	(13) BU / GY	(13) 4054	(13) Private Serial Data Powertrain CAN Bus [-] Serial Data	(13) I	(13) —
(14) 14	(14) 0.5	(14) BU / GY	(14) 4054	(14) Private Serial Data Powertrain CAN Bus [-] Serial Data	(14) I	(14) —
(15) 15	(15) 0.5	(15) WH	(15) 4055	(15) Private Serial Data Powertrain CAN Bus [+] Serial Data	(15) I	(15) —
(16) 16	(16) 0.5	(16) WH	(16) 4055	(16) Private Serial Data Powertrain CAN Bus [+] Serial Data	(16) I	(16) —
17 - 18	—	—	—	Not Occupied	—	—

T22 Wireless Accessory Charging Module

5020940

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 2035363-6
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

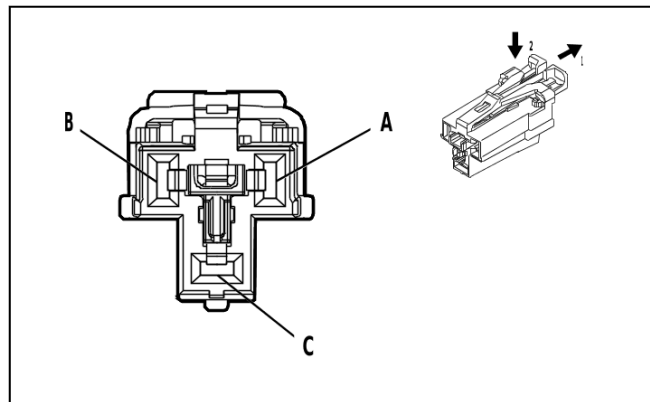
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

T22 Wireless Accessory Charging Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / VT	(1) 2640	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 1350	(2) Ground	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / YE	(3) 4984	(3) AUTOSAR CAN Bus [-] 5 Serial Data	(3) I	(3) —
(4) 4	(4) 0.5	(4) BU / WH	(4) 4985	(4) AUTOSAR CAN Bus [+] 5 Serial Data	(4) I	(4) —
(5) 5	(5) 0.5	(5) BU / YE	(5) 4984	(5) AUTOSAR CAN Bus [-] 5 Serial Data	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / WH	(6) 4985	(6) AUTOSAR CAN Bus [+] 5 Serial Data	(6) I	(6) —

X80G Accessory Power Receptacle - Instrument Panel (KC5)



4872413

Connector Part Information

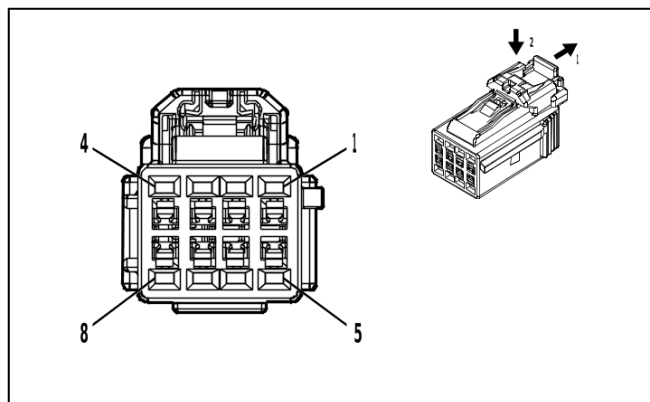
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 33386302
- Service Connector: 19369281
- Description: 3-Way F 2.8 APEX Series(GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required

X80G Accessory Power Receptacle - Instrument Panel (KC5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT	1001	Retained Accessory Power Ignition Voltage	I	—
B	—	—	—	Not Occupied	—	—
C	1.5	BK	1050	Ground	I	—

X81ACA Front Floor Console Accessory Power Rear Receptacle - 110V AC (KI4)

5086387

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 6098-8443
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 1.2 Series(BK)

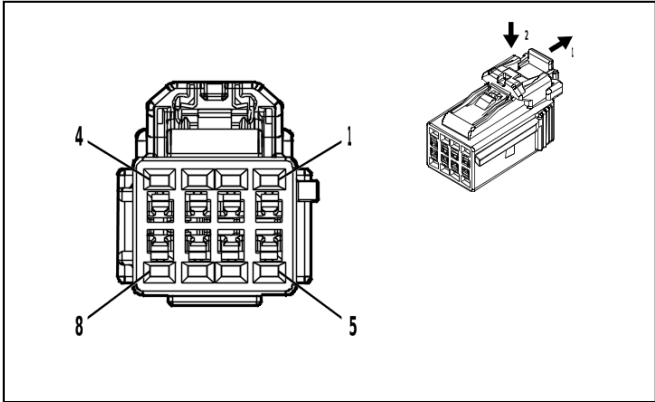
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required

X81ACA Front Floor Console Accessory Power Rear Receptacle - 110V AC (KI4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 10117	(1) AC Outlet Phase A Control	(1) II	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) VT / RD	(3) 4049	(3) AC Power Outlet Sensor High Reference	(3) II	(3) —
(4) 4	(4) 0.5	(4) BU / BN	(4) 6807	(4) DC/AC Inverter Control	(4) II	(4) —
(5) 5	(5) 0.75	(5) RD	(5) 10118	(5) AC Outlet Phase B Control	(5) II	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) BK	(7) 1350	(7) Ground	(7) II	(7) —
(8) 8	(8) 0.35	(8) YE	(8) 6817	(8) LED Backlight Dimming Control 1	(8) I	(8) —

X81AI Accessory Power Receptacle - Instrument Panel 110V AC (KI4)



5086387

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6098-8443
- Service Connector: 84613126
- Description: 8-Way F 1.2 Series(BK)

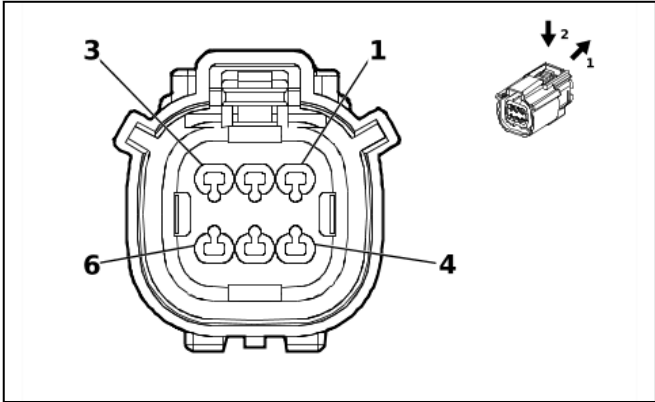
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required

X81AI Accessory Power Receptacle - Instrument Panel 110V AC (KI4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 10117	(1) AC Outlet Phase A Control	(1) II	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) VT / RD	(3) 4049	(3) AC Power Outlet Sensor High Reference	(3) II	(3) —
(4) 4	(4) 0.5	(4) BU / BN	(4) 6807	(4) DC/AC Inverter Control	(4) II	(4) —
(5) 5	(5) 0.75	(5) RD	(5) 10118	(5) AC Outlet Phase B Control	(5) II	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) BK / WH	(7) 851	(7) Signal Ground	(7) II	(7) —
(8) 8	(8) 0.35	(8) YE	(8) 6817	(8) LED Backlight Dimming Control 1	(8) I	(8) —

X81AP Pickup Box Accessory Power Receptacle - 110V AC (KC9)



5666225

Connector Part Information

- Harness Type: Chassis Rear Wiring Harness
- OEM Connector: 33472-0744
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.5 MX Series, Sealed(BK)

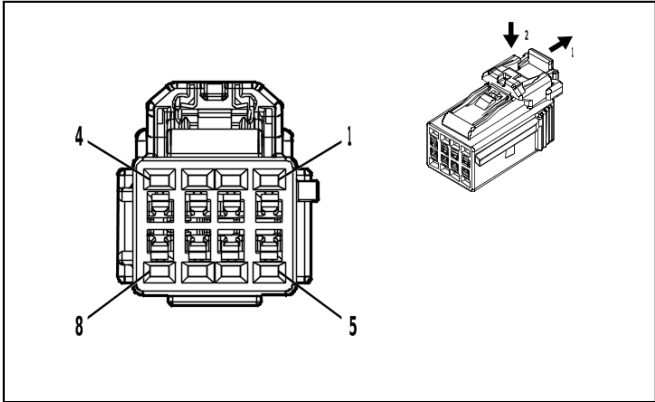
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

X81AP Pickup Box Accessory Power Receptacle - 110V AC (KC9)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / RD	(1) 4049	(1) AC Power Outlet Sensor High Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / BN	(2) 2266	(2) DC/AC Inverter Control 2	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.75	(4) BK / WH	(4) 10120	(4) AC Outlet 2 Phase A Control	(4) I	(4) —
(5) 5	(5) 0.5	(5) BK	(5) 1750	(5) Ground	(5) I	(5) —
(6) 6	(6) 0.75	(6) RD / WH	(6) 10121	(6) AC Outlet 2 Phase B Control	(6) I	(6) —

X81BCA Front Floor Console Accessory Power Rear Receptacle - 220V AC (KI5)



5086387

Connector Part Information

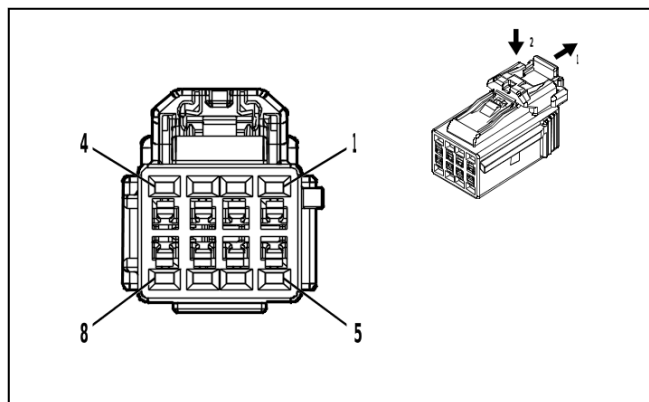
- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 6098-8443
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 1.2 Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required

X81BCA Front Floor Console Accessory Power Rear Receptacle - 220V AC (KI5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 10117	(1) AC Outlet Phase A Control	(1) II	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) VT / RD	(3) 4049	(3) AC Power Outlet Sensor High Reference	(3) II	(3) —
(4) 4	(4) 0.5	(4) BU / BN	(4) 6807	(4) DC/AC Inverter Control	(4) II	(4) —
(5) 5	(5) 0.75	(5) RD	(5) 10118	(5) AC Outlet Phase B Control	(5) II	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) BK	(7) 1350	(7) Ground	(7) II	(7) —
(8) 8	(8) 0.35	(8) YE	(8) 6817	(8) LED Backlight Dimming Control 1	(8) I	(8) —

X81BI Accessory Power Receptacle - Instrument Panel 220V AC (KI5)

5086387

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35029311
- Service Connector: 84613126
- Description: 8-Way F 1.2 Series(BK)

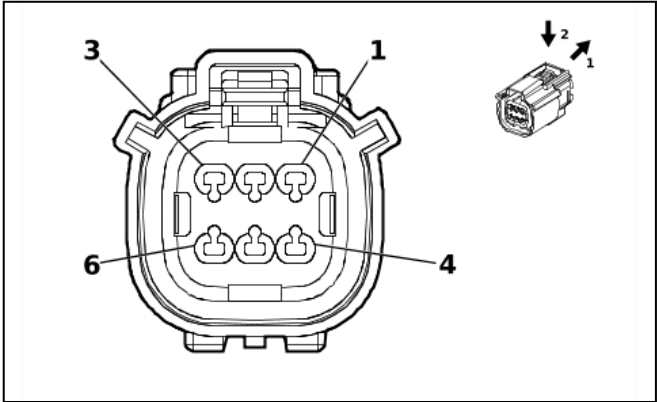
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required

X81BI Accessory Power Receptacle - Instrument Panel 220V AC (KI5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 10117	(1) AC Outlet Phase A Control	(1) II	(1) KI5
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) VT / RD	(3) 4049	(3) AC Power Outlet Sensor High Reference	(3) II	(3) KI5
(4) 4	(4) 0.5	(4) BU / BN	(4) 6807	(4) DC/AC Inverter Control	(4) II	(4) KI5
(5) 5	(5) 0.75	(5) RD	(5) 10118	(5) AC Outlet Phase B Control	(5) II	(5) KI5
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) BK / WH	(7) 851	(7) Signal Ground	(7) II	(7) KI5
(8) 8	(8) 0.35	(8) YE	(8) 6817	(8) LED Backlight Dimming Control 1	(8) I	(8) KI5

X81BP Pickup Box Accessory Power Receptacle - 220V AC (KCA)



5666225

Connector Part Information

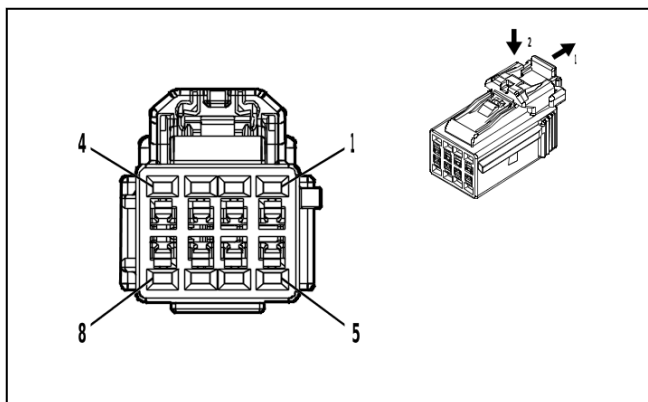
- Harness Type: Chassis Rear Wiring Harness
- OEM Connector: 33472-0744
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.5 MX Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

X81BP Pickup Box Accessory Power Receptacle - 220V AC (KCA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / RD	(1) 4049	(1) AC Power Outlet Sensor High Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / BN	(2) 2266	(2) DC/AC Inverter Control 2	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.75	(4) BK / WH	(4) 10120	(4) AC Outlet 2 Phase A Control	(4) I	(4) —
(5) 5	(5) 0.5	(5) BK	(5) 1750	(5) Ground	(5) I	(5) —
(6) 6	(6) 0.75	(6) RD / WH	(6) 10121	(6) AC Outlet 2 Phase B Control	(6) I	(6) —

X81FSA Accessory Power Receptacle - Front Center Seat Rear Cover 110V AC (KI4)

5086387

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Center
- OEM Connector: 6098-8443
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 1.2 Series(BK)

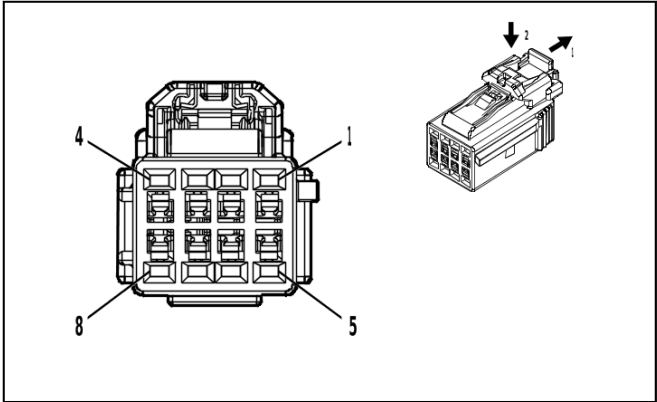
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

X81FSA Accessory Power Receptacle - Front Center Seat Rear Cover 110V AC (KI4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 10117	(1) AC Outlet Phase A Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.75	(3) VT / RD	(3) 4049	(3) AC Power Outlet Sensor High Reference	(3) I	(3) —
(4) 4	(4) 0.75	(4) BU / BN	(4) 6807	(4) DC/AC Inverter Control	(4) I	(4) —
(5) 5	(5) 0.75	(5) RD	(5) 10118	(5) AC Outlet Phase B Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.75	(7) BK	(7) 1050	(7) Ground	(7) I	(7) —
(8) 8	(8) 0.35	(8) YE	(8) 6817	(8) LED Backlight Dimming Control 1	(8) I	(8) —

X81FSB Accessory Power Receptacle - Front Center Seat Rear Cover 220V AC (KI5)



5086387

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Center
- OEM Connector: 6098-8443
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 1.2 Series(BK)

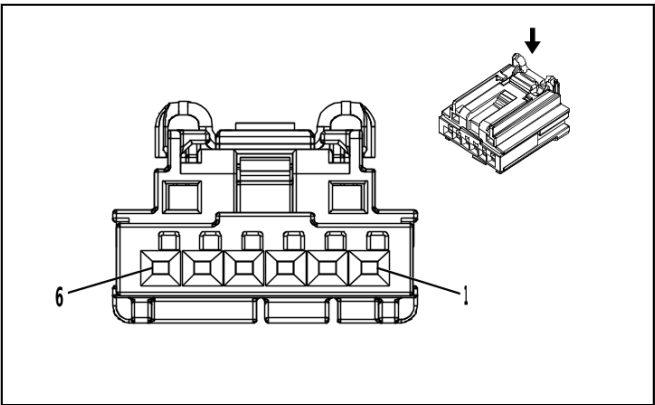
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

X81FSB Accessory Power Receptacle - Front Center Seat Rear Cover 220V AC (KI5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 10117	(1) AC Outlet Phase A Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.75	(3) VT / RD	(3) 4049	(3) AC Power Outlet Sensor High Reference	(3) I	(3) —
(4) 4	(4) 0.75	(4) BU / BN	(4) 6807	(4) DC/AC Inverter Control	(4) I	(4) —
(5) 5	(5) 0.75	(5) RD	(5) 10118	(5) AC Outlet Phase B Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.75	(7) BK	(7) 1050	(7) Ground	(7) I	(7) —
(8) 8	(8) 0.35	(8) YE	(8) 6817	(8) LED Backlight Dimming Control 1	(8) I	(8) —

X83B Audio/Video Receptacle X1 (D07)



3960313

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 2035363-4
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

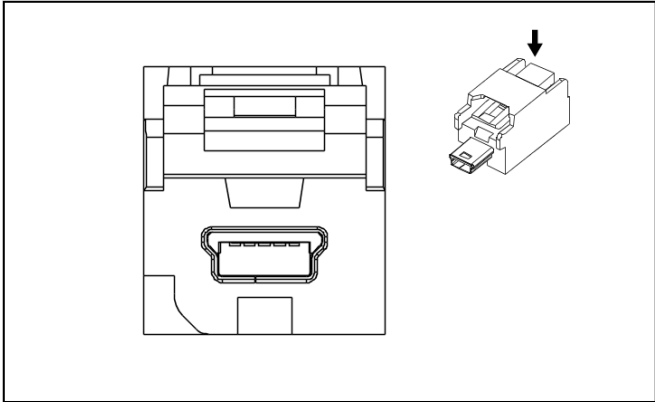
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

X83B Audio/Video Receptacle X1 (D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / VT	(1) 2640	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.35	(2) YE	(2) 6817	(2) LED Backlight Dimming Control 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / WH	(3) 1051	(3) Signal Ground	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—

X83B Audio/Video Receptacle X2 (D07)



3214018

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness USB
- OEM Connector: 13890926
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 5-Way M 2.0 Mini-B USB Type(GY)

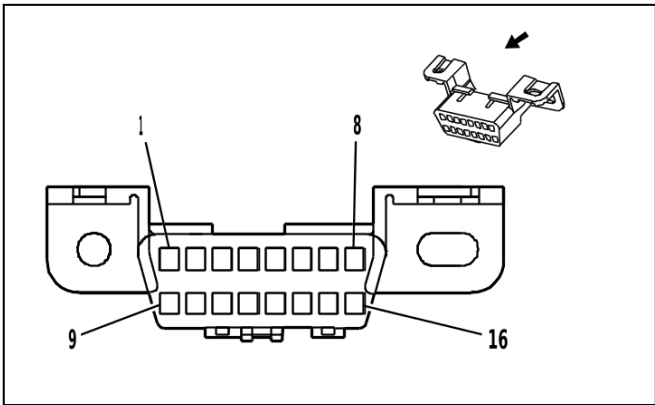
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X83B Audio/Video Receptacle X2 (D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

X84 Data Link Connector



68793

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 12110250
- Service Connector: 12110250
- Description: 16-Way F 150 Metri-Pack Series(BK)

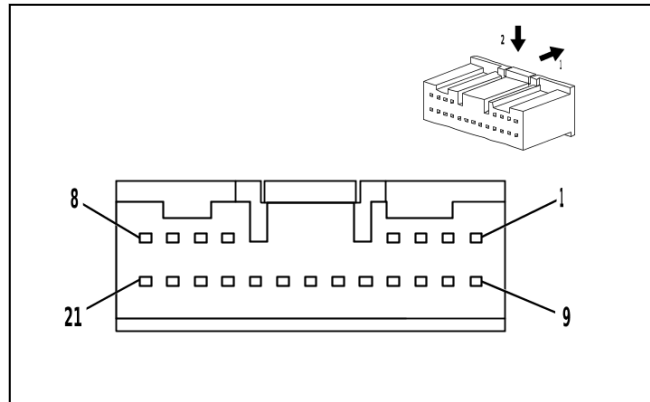
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13580059	J-35616-14 (GN)	J-38125-12A
II	Service by Cable	J-35616-14 (GN)	J-38125-557

X84 Data Link Connector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BU / BN	(1) 4983	(1) AUTOSAR CAN Bus [+] 7 Serial Data	(1) I	(1) —
(2) 2	(2) 0.35	(2) GN	(2) 2578	(2) Private Serial Data Presentation CAN Bus [+] 1 Serial Data	(2) I	(2) —
(3) 3	(3) 0.35	(3) BU	(3) 4973	(3) Ethernet Bus 1R [+]	(3) II	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 1050	(4) Ground	(4) I	(4) —
(5) 5	(5) 0.5	(5) BK / WH	(5) 851	(5) Signal Ground	(5) I	(5) —
(6) 6	(6) 0.35	(6) YE	(6) 4981	(6) AUTOSAR CAN Bus [+] 6 Serial Data	(6) I	(6) —
(7) 7	(7) 0.35	(7) VT	(7) 2580	(7) Private Serial Data Presentation CAN Bus [+] 2 Serial Data	(7) I	(7) —
(8) 8	(8) 0.35	(8) WH	(8) 7207	(8) Ethernet Bus 1 Enable Signal	(8) I	(8) —
(9) 9	(9) 0.35	(9) WH	(9) 4982	(9) AUTOSAR CAN Bus [-] 7 Serial Data	(9) I	(9) —
(10) 10	(10) 0.3 5	(10) BN	(10) 2577	(10) Private Serial Data Presentation CAN Bus [-] 1 Serial Data	(10) I	(10) —
(11) 11	(11) 0.3 5	(11) YE	(11) 4972	(11) Ethernet Bus 1R [-]	(11) II	(11) —
(12) 12	(12) 0.3 5	(12) WH	(12) 4975	(12) Ethernet Bus 1T [+]	(12) II	(12) —
(13) 13	(13) 0.3 5	(13) GN	(13) 4974	(13) Ethernet Bus 1T [-]	(13) II	(13) —
(14) 14	(14) 0.3 5	(14) WH	(14) 4980	(14) AUTOSAR CAN Bus [-] 6 Serial Data	(14) I	(14) —
(15) 15	(15) 0.3 5	(15) GY	(15) 2579	(15) Private Serial Data Presentation CAN Bus [-] 2 Serial Data	(15) I	(15) —
(16) 16	(16) 0.5	(16) RD / YE	(16) 6540	(16) Battery Positive Voltage	(16) I	(16) —

X85 Steering Wheel Airbag Coil X1 (- UKL)



3960237

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: ATLCPB-21B-2AY
- Service Connector: 13510218
- Description: 21-Way F 0.64 Series(YE)

Terminal Part Information

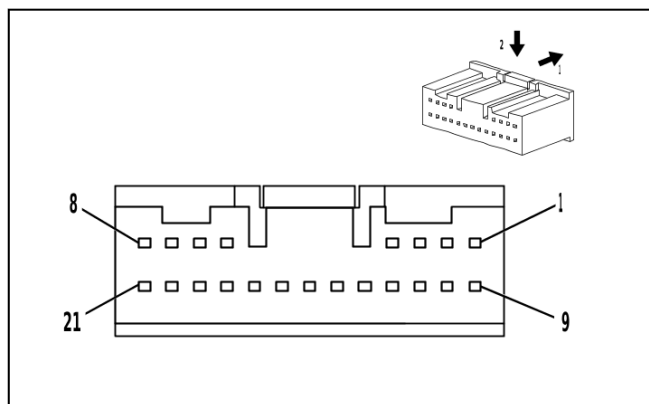
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575742	J-35616-64B (L-BU)	J-38125-215A
II	13575865	J-35616-64B (L-BU)	J-38125-215A
III	Not required	No Tool Required	No Tool Required

X85 Steering Wheel Airbag Coil X1 (- UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / WH	(1) 851	(1) Signal Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) GN / WH	(2) 3287	(2) Horn Switch Signal	(2) I	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) OG / GN	(5) 3023	(5) Steering Wheel Air Bag Stage 2 High Control	(5) II	(5) —
(6) 6	(6) 0.5	(6) WH / OG	(6) 3022	(6) Steering Wheel Air Bag Stage 2 Low Control	(6) II	(6) —
(7) 7	(7) 0.5	(7) BN / OG	(7) 3020	(7) Steering Wheel Air Bag Stage 1 Low Control	(7) II	(7) —
(8) 8	(8) 0.5	(8) OG / VT	(8) 3021	(8) Steering Wheel Air Bag Stage 1 High Control	(8) II	(8) —
(9) 9	(9) 0.5	(9) GN / BK	(9) 3894	(9) Instrument Panel Cluster Control Module LIN Bus 1	(9) I	(9) —
(10) 10	(10) 0.3 5	(10) GN / BK	(10) 2858	(10) Body Control Module LIN Bus 12	(10) I	(10) —
(11) 11	(11) 0.3 5	(11) BN / GN	(11) 1884	(11) Cruise Control Set/Coast/Resume/Accelerate Switch Signal	(11) I	(11) —
(12) 12	(12) 0.5	(12) BK / VT	(12) 1449	(12) Steering Wheel Resistor Ladder Low Reference	(12) I	(12) —
13	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(14) 14	(14) 0.5	(14) RD / GN	(14) 5140	(14) Battery Positive Voltage	(14) I	(14) —
(15) 15	(15) 0.3 5	(15) GY / GN	(15) 5737	(15) Distance Sensing Cruise Control Gap Up/Down Switch Signal	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) VT / YE	(16) 5526	(16) Tap Up/Tap Down Switch Signal	(16) I	(16) —
(17) 17	(17) 0.3 5	(17) YE	(17) 6817	(17) LED Backlight Dimming Control 1	(17) III	(17) —
18 - 19	—	—	—	Not Occupied	—	—
(20) 20	(20) 0.5	(20) BK	(20) 1050	(20) Ground	(20) I	(20) —
(21) 21	(21) 0.5	(21) RD / BN	(21) 1004 0	(21) Battery Positive Voltage	(21) I	(21) —

X85 Steering Wheel Airbag Coil X1 (UKL)



3960237

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: ATLCPB-21B-2AY
- Service Connector: 13510218
- Description: 21-Way F 0.64 Series(YE)

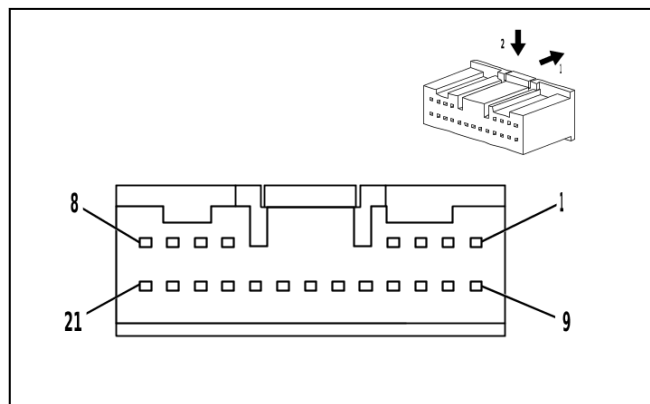
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575742	J-35616-64B (L-BU)	J-38125-215A
II	13575865	J-35616-64B (L-BU)	J-38125-215A

X85 Steering Wheel Airbag Coil X1 (UKL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK / WH	(1) 851	(1) Signal Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) GN / WH	(2) 3287	(2) Horn Switch Signal	(2) I	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) OG / GN	(5) 3023	(5) Steering Wheel Air Bag Stage 2 High Control	(5) II	(5) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(6) 6	(6) 0.5	(6) WH / OG	(6) 3022	(6) Steering Wheel Air Bag Stage 2 Low Control	(6) II	(6) —
(7) 7	(7) 0.5	(7) BN / OG	(7) 3020	(7) Steering Wheel Air Bag Stage 1 Low Control	(7) II	(7) —
(8) 8	(8) 0.5	(8) OG / VT	(8) 3021	(8) Steering Wheel Air Bag Stage 1 High Control	(8) II	(8) —
(9) 9	(9) 0.5	(9) GN / BK	(9) 3894	(9) Instrument Panel Cluster Control Module LIN Bus 1	(9) I	(9) —
(10) 10	(10) 0.5 (10) 0.3 5	(10) GN / GY (10) GN / BK	(10) 4627 (10) 2858	(10) Image Processing Module LIN Bus 1 (10) Body Control Module LIN Bus 12	(10) I (10) I	(10) D07+ UKL (10) KI3+ N38-UKL
(11) 11	(11) 0.3 5	(11) BN / GN	(11) 1884	(11) Cruise Control Set/Coast/Resume/Accelerate Switch Signal	(11) I	(11) —
(12) 12	(12) 0.5	(12) BK / VT	(12) 1449	(12) Steering Wheel Resistor Ladder Low Reference	(12) I	(12) —
(13) 13	(13) 0.3 5	(13) WH / VT	(13) 2246	(13) Driver Illumination Lamp 1 Control	(13) I	(13) —
(14) 14	(14) 0.5	(14) RD / GN	(14) 5140	(14) Battery Positive Voltage	(14) I	(14) —
(15) 15	(15) 0.3 5	(15) GY / GN	(15) 5737	(15) Distance Sensing Cruise Control Gap Up/Down Switch Signal	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) VT / YE	(16) 5526	(16) Tap Up/Tap Down Switch Signal	(16) I	(16) —
(17) 17	(17) 0.3 5	(17) YE / BU	(17) 2245	(17) Driver Illumination Lamp 2 Control	(17) I	(17) —
(18) 18	(18) 0.3 5	(18) BU / BN	(18) 7744	(18) Driver Illumination Lamp Ground	(18) I	(18) —
19	—	—	—	Not Occupied	—	—
(20) 20	(20) 0.5	(20) BK	(20) 1050	(20) Ground	(20) I	(20) —
(21) 21	(21) 0.5	(21) RD / BN	(21) 1004 0	(21) Battery Positive Voltage	(21) I	(21) —

X85 Steering Wheel Airbag Coil X2 (N57 - D07)

3960237

Connector Part Information

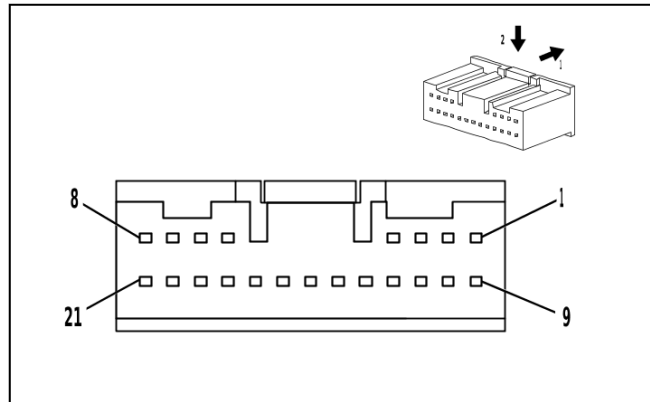
- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 13510218
- Service Connector: Service by Harness - See Part Catalog
- Description: 21-Way F 0.64 Series(YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

X85 Steering Wheel Airbag Coil X2 (N57 - D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK	(1) 6051	(1) Steering Wheel Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) GN / WH	(2) 3287	(2) Horn Switch Signal	(2) I	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) GY / GN	(5) 3023	(5) Steering Wheel Air Bag Stage 2 High Control	(5) I	(5) —
(6) 6	(6) 0.5	(6) WH / VT	(6) 3022	(6) Steering Wheel Air Bag Stage 2 Low Control	(6) I	(6) —
(7) 7	(7) 0.5	(7) BN / WH	(7) 3020	(7) Steering Wheel Air Bag Stage 1 Low Control	(7) I	(7) —
(8) 8	(8) 0.5	(8) YE / OG	(8) 3021	(8) Steering Wheel Air Bag Stage 1 High Control	(8) I	(8) —
(9) 9	(9) 0.5	(9) RD / BN	(9) 10040	(9) Battery Positive Voltage	(9) I	(9) KI3
10 - 14	—	—	—	Not Occupied	—	—
(15) 15	(15) 0.3 5	(15) GY / GN	(15) 5737	(15) Distance Sensing Cruise Control Gap Up/Down Switch Signal	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) RD / GN	(16) 5140	(16) Battery Positive Voltage	(16) I	(16) —
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.3 5	(18) BU	(18) 1449	(18) Steering Wheel Resistor Ladder Low Reference	(18) I	(18) —
(19) 19	(19) 0.3 5	(19) BN / GN	(19) 1884	(19) Cruise Control Set/Coast/Resume/Accelerate Switch Signal	(19) I	(19) —
(20) 20	(20) 0.3 5	(20) GN / BK	(20) 2858	(20) Body Control Module LIN Bus 12	(20) I	(20) KI3
(21) 21	(21) 0.3 5	(21) GN / BK	(21) 3894	(21) Instrument Panel Cluster Control Module LIN Bus 1	(21) I	(21) —

X85 Steering Wheel Airbag Coil X2 (NK5 / D07)

3960237

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 13510218
- Service Connector: Service by Harness - See Part Catalog
- Description: 21-Way F 0.64 Series(YE)

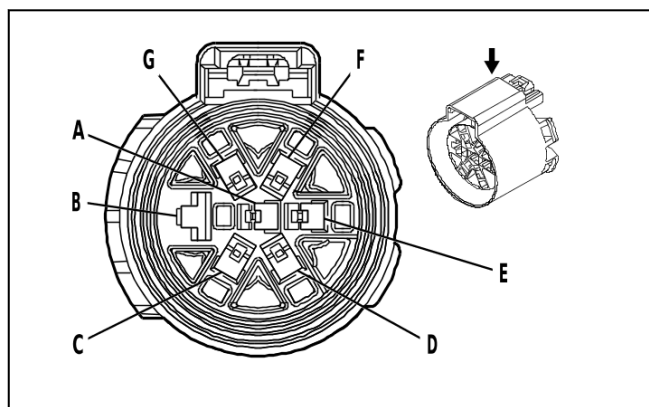
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

X85 Steering Wheel Airbag Coil X2 (NK5 / D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BK / WH	(1) 6051	(1) Steering Wheel Ground	(1) I	(1) —
(2) 2	(2) 0.35	(2) GN / WH	(2) 3287	(2) Horn Switch Signal	(2) I	(2) —
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) OG / GN	(5) 3023	(5) Steering Wheel Air Bag Stage 2 High Control	(5) I	(5) —
(6) 6	(6) 0.5	(6) WH / OG	(6) 3022	(6) Steering Wheel Air Bag Stage 2 Low Control	(6) I	(6) —
(7) 7	(7) 0.5	(7) BN / OG	(7) 3020	(7) Steering Wheel Air Bag Stage 1 Low Control	(7) I	(7) —
(8) 8	(8) 0.5	(8) OG / VT	(8) 3021	(8) Steering Wheel Air Bag Stage 1 High Control	(8) I	(8) —
(9) 9	(9) 0.5	(9) RD / GN	(9) 10040	(9) Battery Positive Voltage	(9) I	(9) KI3
(10) 10	(10) 0.5	(10) BK	(10) 6050	(10) Steering Wheel Ground	(10) I	(10) KI3
11 - 13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.3 5	(14) VT / YE	(14) 5526	(14) Tap Up/Tap Down Switch Signal	(14) I	(14) —
(15) 15	(15) 0.3 5	(15) GY / GN	(15) 5737	(15) Distance Sensing Cruise Control Gap Up/Down Switch Signal	(15) I	(15) —
(16) 16	(16) 0.3 5	(16) RD / GN	(16) 5140	(16) Battery Positive Voltage	(16) I	(16) —
17	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(18) 18	(18) 0.3 5	(18) BK / VT	(18) 1449	(18) Steering Wheel Resistor Ladder Low Reference	(18) I	(18) —
(19) 19	(19) 0.3 5	(19) BN / GN	(19) 1884	(19) Cruise Control Set/Coast/Resume/Accelerate Switch Signal	(19) I	(19) —
(20) 20	(20) 0.3 5	(20) GN / BK	(20) 2858	(20) Body Control Module LIN Bus 12	(20) I	(20) KI3
(21) 21	(21) 0.3 5	(21) GN / BK	(21) 3894	(21) Instrument Panel Cluster Control Module LIN Bus 1	(21) I	(21) —

X88B Tow Vehicle Electrical Receptacle X1

2056936

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 13857223
- Service Connector: 86816072
- Description: 7-Way F 280, 630 Metri-Pack Series, Sealed(BK)

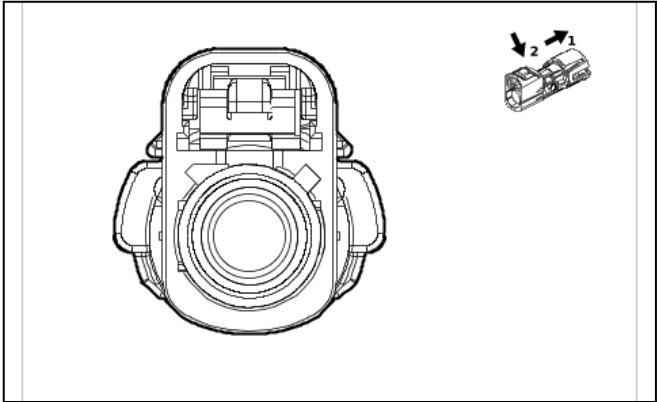
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

X88B Tow Vehicle Electrical Receptacle X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	GY	1624	Trailer Backup Lamp Control	II	UET
	1	GY	5189	Trailer Backup Lamp Control	II	- UET
B	5	WH	22	Trailer Ground	I	—
C	2.5	BU	47	Trailer Auxiliary Control	II	—
D	1	GN	1619	Right Rear Trailer Stop/Turn Lamp Control	II	—
E	4	OG	3940	Battery Positive Voltage	II	—
F	1	BN	2109	Trailer Park Lamp Control	II	UET
	1.5	BN	2109	Trailer Park Lamp Control	II	- UET
G	1	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	II	—

X88B Tow Vehicle Electrical Receptacle X2



5758030

Connector Part Information

- Harness Type: Chassis Wiring Harness COAX
- OEM Connector: 35187032
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BK)

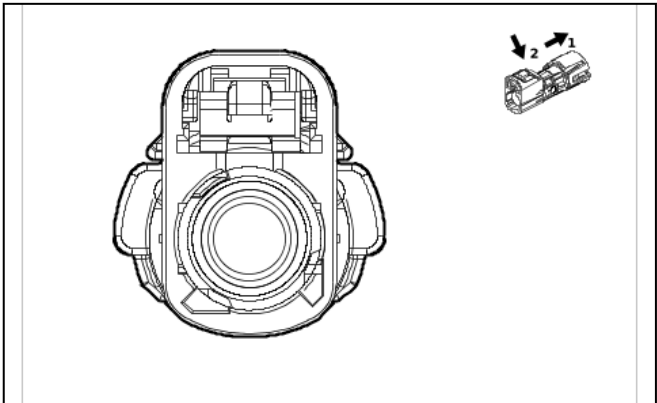
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X88B Tow Vehicle Electrical Receptacle X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Trailer Rear Vision Camera Coaxial Video Signal	I	—

X88B Tow Vehicle Electrical Receptacle X3



5757455

Connector Part Information

- Harness Type: Chassis Wiring Harness COAX
- OEM Connector: 35187043
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(OG)

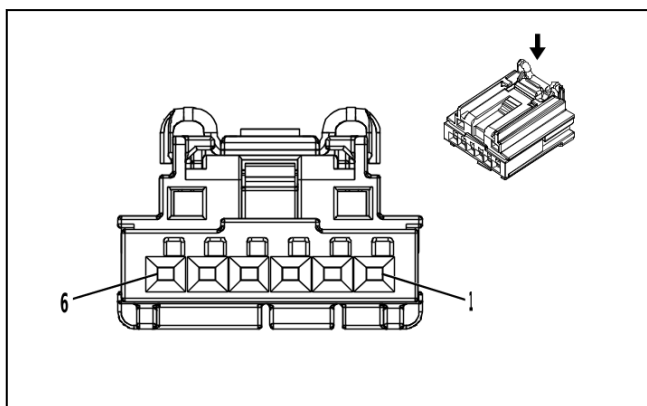
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X88B Tow Vehicle Electrical Receptacle X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	Trailer 2 Rear Vision Camera Coaxial Video Signal	I	—

X92CD Dual Charge Only Receptacle - Floor Console Rear (UBI)



3960313

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 2035363-4
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

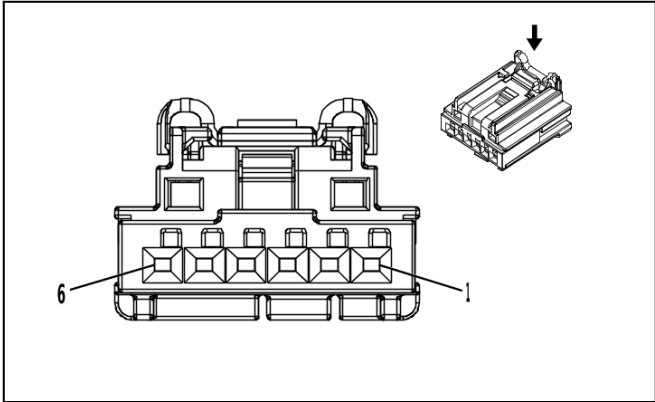
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

X92CD Dual Charge Only Receptacle - Floor Console Rear (UBI)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) VT	(1) 4701	(1) Retained Accessory Power Control	(1) I	(1) —
(2) 2	(2) 0.35	(2) YE	(2) 6817	(2) LED Backlight Dimming Control 1	(2) I	(2) —
(3) 3	(3) 0.35	(3) BK	(3) 1350	(3) Ground	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—

X92FSR Dual Charge Only Receptacle - Front Center Seat Rear Cover



3960313

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Center
- OEM Connector: 2035363-4
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

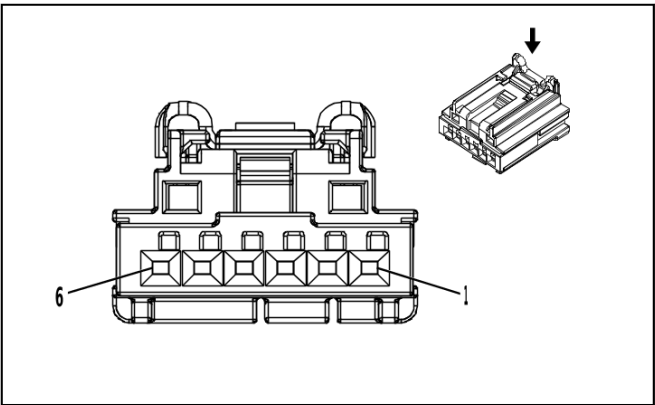
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

X92FSR Dual Charge Only Receptacle - Front Center Seat Rear Cover

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) VT	(1) 4701	(1) Retained Accessory Power Control	(1) I	(1) —
(2) 2	(2) 0.35	(2) YE	(2) 6817	(2) LED Backlight Dimming Control 1	(2) I	(2) —
(3) 3	(3) 0.35	(3) BK	(3) 1451	(3) Signal Ground	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—

X92IP USB 2 Port Receptacle - Instrument Panel X1 (- D07)



3960313

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 2035363-4
- Service Connector: 19332786
- Description: 6-Way F 0.64 Generation Y Series(BK)

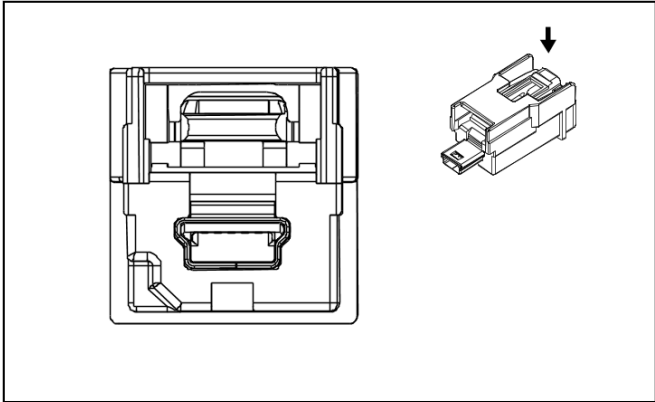
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

X92IP USB 2 Port Receptacle - Instrument Panel X1 (- D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / VT	(1) 2640	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE	(2) 6817	(2) LED Backlight Dimming Control 1	(2) I	(2) —
(3) 3	(3) 0.75	(3) BK / WH	(3) 1051	(3) Signal Ground	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—

X92IP USB 2 Port Receptacle - Instrument Panel X2 (- D07)



2807491

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness USB
- OEM Connector: 111014-9001
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 5-Way M 2.0 Mini-B USB Type(GY)

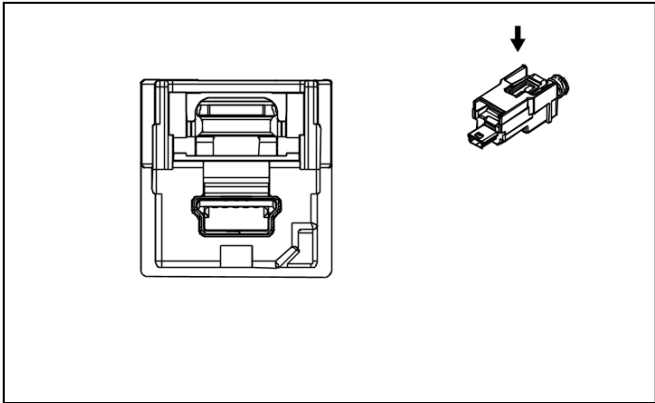
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X92IP USB 2 Port Receptacle - Instrument Panel X2 (- D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

X92IP USB 2 Port Receptacle - Instrument Panel X3 (- D07)



2807425

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness USB
- OEM Connector: 13576672
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 5-Way M 2.0 Mini-B USB Type(BK)

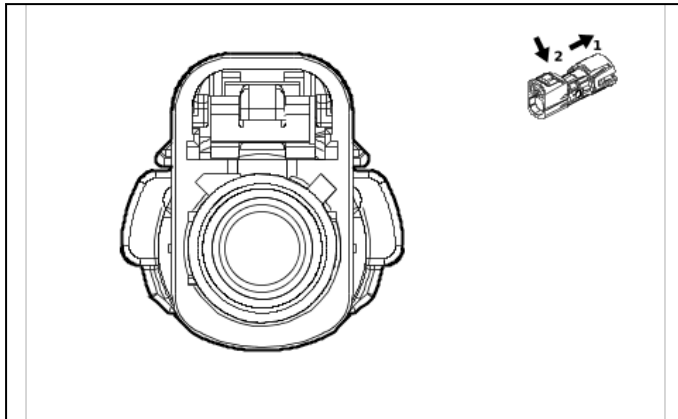
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

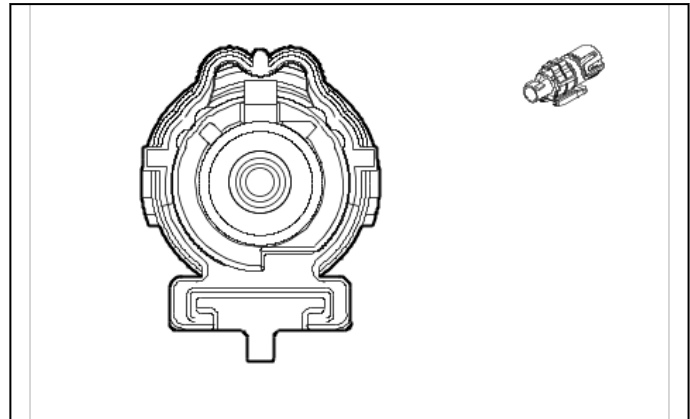
X92IP USB 2 Port Receptacle - Instrument Panel X3 (- D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	USB	—	USB Serial Data	I	—

X122 Front View Camera Switch Wiring Harness to Body Wiring Harness



5758030



5758019

Connector Part Information

- Harness Type: Front View Camera Switch Wiring Harness COAX
- OEM Connector: 35187032
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BK)

Connector Part Information

- Harness Type: Body Wiring Harness COAX
- OEM Connector: 33338239
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way M Coax Type, Sealed(BK)

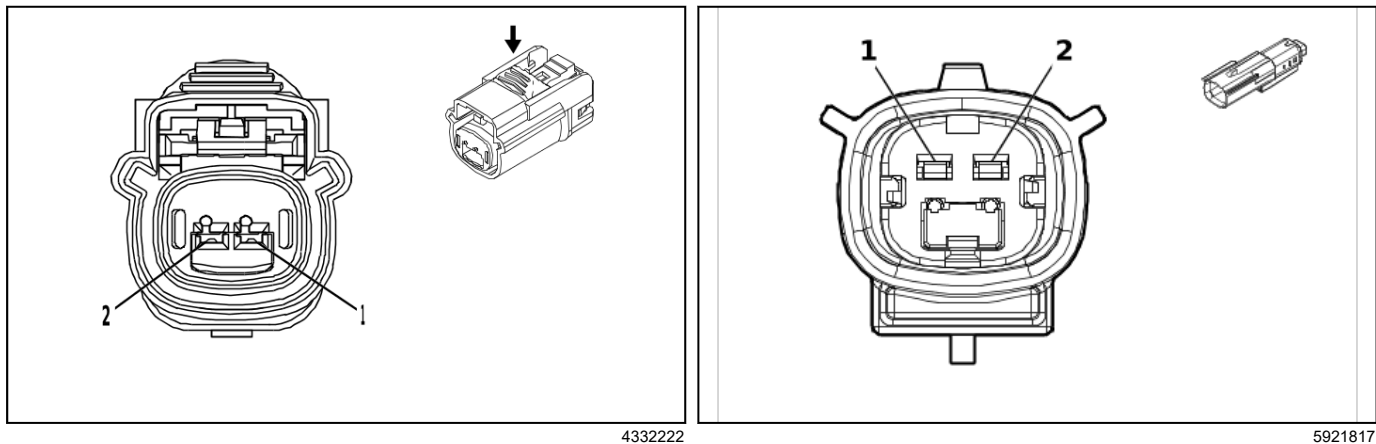
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X122 Front View Camera Switch Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax Cable	—	I	—	Front Vision Camera 1 Coaxial Video Signal	—	—	Coax Cable	—	I	—

X124 Front View Camera Switch Wiring Harness to Body Wiring Harness



- Connector Part Information**

 - Harness Type: Front View Camera Switch Wiring Harness
 - OEM Connector: 15514573
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 2-Way F 1.5 OCS Series, Sealed(BK)
- Connector Part Information**

 - Harness Type: Body Wiring Harness
 - OEM Connector: 15514550
 - Service Connector: 86825463
 - Description: 2-Way M 1.5 OCS Series, Sealed(BK)

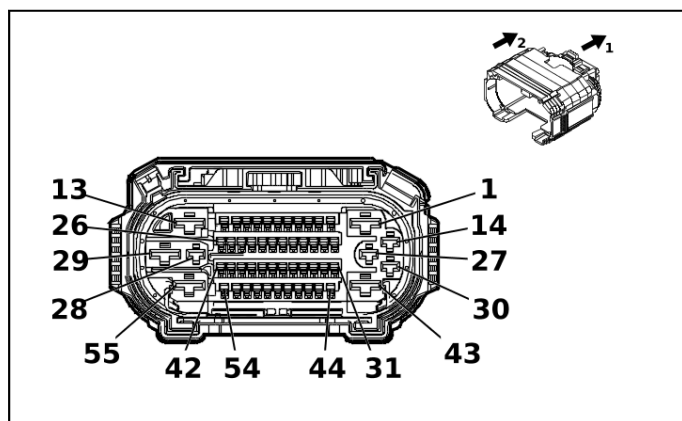
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X124 Front View Camera Switch Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) BN / GN	(1) 424 6	(1) I	(1) —	(1) Identification Lamp Control	(1) 1	(1) 1.5	(1) BN / GN	(1) 424 6	(1) II	(1) —
(2) 2	(2) 1.5	(2) BK	(2) 650	(2) I	(2) —	(2) Ground	(2) 2	(2) 1	(2) BK	(2) 650	(2) II	(2) —

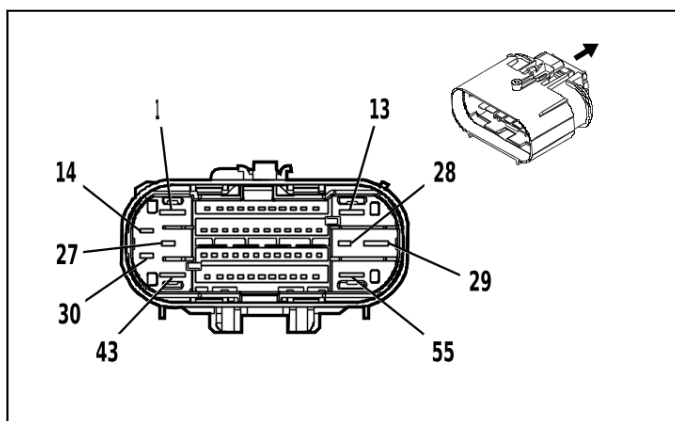
X125 Engine Wiring Harness to Body Wiring Harness



5246872

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35580811
- Service Connector: 19371184
- Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(GY)



4994369

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35588062
- Service Connector: 84727363
- Description: 55-Way M 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19332901	J-35616-35 (VT)	J-38125-212
II	19370818	J-35616-12 (BU)	J-38125-215A
III	19371217	J-35616-12 (BU)	J-38125-553
IV	84634921	J-35616-42 (RD)	J-38125-212
V	84847992	J-35616-32 (OG)	J-38125-36
VI	84867140	J-35616-13 (BU)	J-38125-215A
VII	84867141	J-35616-13 (BU)	J-38125-215A
VIII	84992391	J-35616-5 (PU)	J-38125-36

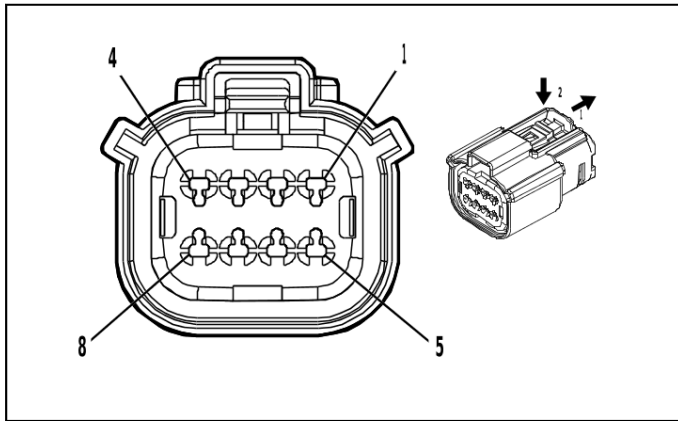
X125 Engine Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 3	(1) BK / WH	(1) 251	(1) IV	(1) —	(1) Signal Ground	(1) 1	(1) 3	(1) BK / WH	(1) 251	(1) V	(1) —
(2) 2	(2) 1.5	(2) RD / GN	(2) 1840	(2) III	(2) —	(2) Battery Positive Voltage	(2) 2	(2) 1.5	(2) RD / GN	(2) 1840	(2) VII	(2) —
3	—	—	—	—	—	Not Occupied	3	—	—	—	—	—
(4) 4	(4) 0.5	(4) BU / GY	(4) 4054	(4) II	(4) —	(4) Private Serial Data Powertrain CAN Bus [-] Serial Data	(4) 4	(4) 0.5	(4) BU / GY	(4) 4054	(4) VI	(4) —
(5) 5	(5) 0.5	(5) W H	(5) 4055	(5) II	(5) —	(5) Private Serial Data Powertrain CAN Bus [+] Serial Data	(5) 5	(5) 0.5	(5) W H	(5) 4055	(5) VI	(5) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(6) 6	(6) 0.5	(6) W H	(6) 497 6	(6) II	(6) —	(6) AUTOSAR CAN Bus [-] 3 Serial Data	(6) 6	(6) 0.5	(6) W H	(6) 497 6	(6) VI	(6) —
(7) 7	(7) 0.5	(7) BU / BK	(7) 497 7	(7) II	(7) —	(7) AUTOSAR CAN Bus [+] 3 Serial Data	(7) 7	(7) 0.5	(7) BU / BK	(7) 497 7	(7) VI	(7) —
(8) 8	(8) 0.5	(8) W H / RD	(8) 116 4	(8) II	(8) —	(8) Accelerator Pedal Position 5V Reference 1	(8) 8	(8) 0.35	(8) W H / RD	(8) 116 4	(8) VI	(8) —
(9) 9	(9) 0.5	(9) BK / BU	(9) 127 1	(9) II	(9) —	(9) Accelerator Pedal Position Low Reference 1	(9) 9	(9) 0.35	(9) BK / BU	(9) 127 1	(9) VI	(9) —
(10) 10	(10) 0.5	(10) Y E / WH	(10) 11 61	(10) II	(10) —	(10) Accelerator Pedal Position Signal 1	(10) 10	(10) 0.35	(10) Y E / WH	(10) 11 61	(10) VI	(10) —
(11) 11	(11) 0.5	(11) G N / WH	(11) 11 62	(11) II	(11) —	(11) Accelerator Pedal Position Signal 2	(11) 11	(11) 0.35	(11) G N / WH	(11) 11 62	(11) VI	(11) —
12 - 14	—	—	—	—	—	Not Occupied	12 - 14	—	—	—	—	—
(15) 15	(15) 0.5	(15) B N / RD	(15) 12 74	(15) II	(15) —	(15) Accelerator Pedal Position 5V Reference 2	(15) 15	(15) 0.35	(15) B N / RD	(15) 12 74	(15) VI	(15) —
(16) 16	(16) 0.5	(16) Y E	(16) 40 63	(16) II	(16) —	(16) Hood Status A Signal	(16) 16	(16) 0.5	(16) Y E	(16) 40 63	(16) VI	(16) —
(17) 17	(17) 0.5	(17) V T / GN	(17) 43 20	(17) II	(17) —	(17) Powertrain Sensor Bus Enable	(17) 17	(17) 0.5	(17) V T / GN	(17) 43 20	(17) VI	(17) —
(18) 18	(18) 0.5	(18) WH / RD	(18) 48 0	(18) II	(18) —	(18) Engine Control Vehicle Sensors 5 Volt Reference 1	(18) 18	(18) 0.35	(18) WH / RD	(18) 48 0	(18) VI	(18) —
(19) 19	(19) 0.5	(19) G N / BN	(19) 50 7	(19) II	(19) —	(19) Wait To Start Indicator Control	(19) 19	(19) 0.35	(19) G N / BN	(19) 50 7	(19) VI	(19) —
(20) 20	(20) 0.5	(20) WH / GN	(20) 53 80	(20) II	(20) —	(20) Brake Position Sensor Signal	(20) 20	(20) 0.35	(20) WH / GN	(20) 53 80	(20) VI	(20) —
21	—	—	—	—	—	Not Occupied	21	—	—	—	—	—
(22) 22	(22) 0.5	(22) B K / VT	(22) 12 72	(22) II	(22) —	(22) Accelerator Pedal Position Low Reference 2	(22) 22	(22) 0.35	(22) B K / VT	(22) 12 72	(22) VI	(22) —
(23) 23	(23) 0.5	(23) B K / GY	(23) 62 6	(23) II	(23) —	(23) Engine Control Vehicle Sensors Low Reference 1	(23) 23	(23) 0.5	(23) B K / GY	(23) 62 6	(23) VI	(23) —
(24) 24	(24) 0.5	(24) WH / BU	(24) 63 11	(24) II	(24) —	(24) Cruise/ETC/TCC Brake Signal	(24) 24	(24) 0.5	(24) WH / BU	(24) 63 11	(24) VI	(24) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(25) 25	(25) 0.5	(25) B U / GY	(25) 63 6	(25) II	(25) —	(25) Ambient Air Temperature Sensor Signal	(25) 25	(25) 0.5	(25) B U / GY	(25) 63 6	(25) VI	(25) —
(26) 26	(26) 0.75	(26) B U / BN	(26) 75 73	(26) II	(26) —	(26) Air Conditioning Compressor Solenoid Valve Control	(26) 26	(26) 0.5	(26) B U / BN	(26) 75 73	(26) VI	(26) —
(27) 27	(27) 0.75	(27) B U / YE	(27) 75 74	(27) I	(27) —	(27) Air Conditioning Compressor Solenoid Valve Control	(27) 27	(27) 0.5	(27) B U / YE	(27) 75 74	(27) VIII	(27) —
(28) 28	(28) 0.5	(28) V T / GN	(28) 43 20	(28) I	(28) —	(28) Powertra in Sensor Bus Enable	(28) 28	(28) 0.5	(28) V T / GN	(28) 43 20	(28) VIII	(28) —
29 - 30	—	—	—	—	—	Not Occupied	29 - 30	—	—	—	—	—
(31) 31	(31) 0.5	(31) WH	(31) 49 78	(31) II	(31) —	(31) AUTOSA R CAN Bus [-] 2 Serial Data	(31) 31	(31) 0.5	(31) WH	(31) 49 78	(31) VI	(31) —
(32) 32	(32) 0.5	(32) B U / YE	(32) 49 79	(32) II	(32) —	(32) AUTOSA R CAN Bus [+] 2 Serial Data	(32) 32	(32) 0.5	(32) B U / YE	(32) 49 79	(32) VI	(32) —
(33) 33	(33) 0.5	(33) Y E / BK	(33) 62 5	(33) II	(33) —	(33) Starter Enable Relay Control	(33) 33	(33) 0.5	(33) Y E / BK	(33) 62 5	(33) VI	(33) —
34 - 36	—	—	—	—	—	Not Occupied	34 - 36	—	—	—	—	—
(37) 37	(37) 0.5	(37) G N / GY	(37) 46 5	(37) II	(37) —	(37) Fuel Pump Primary Relay Control	(37) 37	(37) 0.5	(37) G N / GY	(37) 46 5	(37) VI	(37) —
38	—	—	—	—	—	Not Occupied	38	—	—	—	—	—
(39) 39	(39) 0.5	(39) B U / WH	(39) 43 06	(39) II	(39) —	(39) Exhaust Flow Control Valve 1 - Cylinder Deactivation Feedback Signal	(39) 39	(39) 0.5	(39) B U / WH	(39) 43 06	(39) VI	(39) —
(40) 40	(40) 0.5	(40) B N / GN	(40) 43 05	(40) II	(40) —	(40) Exhaust Flow Control Valve 1	(40) 40	(40) 0.5	(40) B N / GN	(40) 43 05	(40) VI	(40) —
41 - 55	—	—	—	—	—	Not Occupied	41 - 55	—	—	—	—	—

X128 Engine Wiring Harness to Camshaft Position Sensor Wire



4846407

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 33472-4877
- Service Connector: 84928314
- Description: 8-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

- Harness Type: Camshaft Position Sensor Wire
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way M (BK)

Terminal Part Information

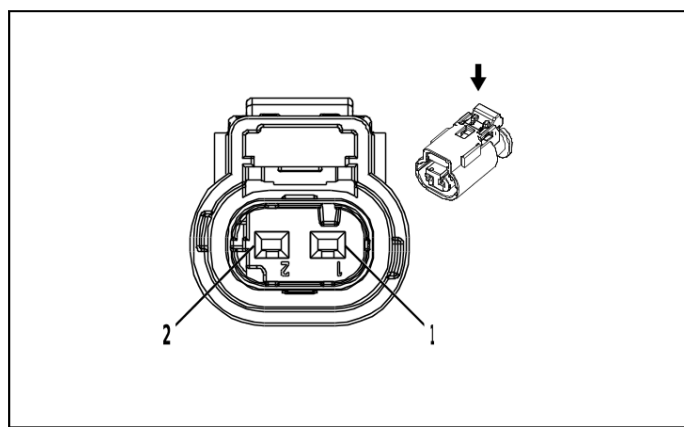
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	No Tool Required	No Tool Required

X128 Engine Wiring Harness to Camshaft Position Sensor Wire

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / BU	(1) 530 0	(1) I	(1) —	(1) Intake Camshaft Position Sensor 1 Voltage Reference	(1) 1	(1) 0.5	(1) GY / BU	(1) 530 0	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / GN	(2) 530 1	(2) I	(2) —	(2) Intake Camshaft Position Sensor Low Reference 1	(2) 2	(2) 0.5	(2) BK / GN	(2) 530 1	(2) II	(2) —
(3) 3	(3) 0.5	(3) YE / VT	(3) 527 5	(3) I	(3) —	(3) Intake Camshaft Position Sensor 1	(3) 3	(3) 0.5	(3) YE / VT	(3) 527 5	(3) II	(3) —
(4) 4	(4) 0.5	(4) BU	(4) 179	(4) I	(4) —	(4) Engine Oil Pump Control	(4) 4	(4) 0.5	(4) BU	(4) 179	(4) II	(4) —
(5) 5	(5) 0.5	(5) VT / BN	(5) 528 4	(5) I	(5) —	(5) Intake Camshaft Position Actuator Solenoid Valve 1	(5) 5	(5) 0.5	(5) VT / BN	(5) 528 4	(5) II	(5) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(6) 6	(6) 0.5	(6) BK / BN	(6) 675 ₃	(6) I	(6) —	(6) Camshaft Position Actuator Solenoid Valve W Low Reference	(6) 6	(6) 0.5	(6) BK / BN	(6) 675 ₃	(6) II	(6) —
(7) 7	(7) 0.5	(7) VT / BU	(7) 529 ₃	(7) I	(7) —	(7) Powertrain Main Relay Fused Supply Voltage 4	(7) 7	(7) 0.5	(7) VT / BU	(7) 529 ₃	(7) II	(7) —
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—

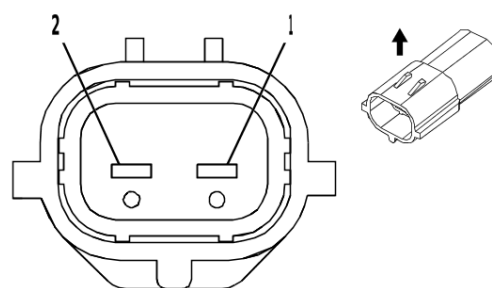
X129 Engine Wiring Harness to Oil Pump Flow Control Solenoid Valve Wiring Harness (L3B)



2717066

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 10010337
- Service Connector: 13587326
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)



2684367

Connector Part Information

- Harness Type: Oil Pump Flow Control Solenoid Valve Wiring Harness
- OEM Connector: 12681015
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M (BK)

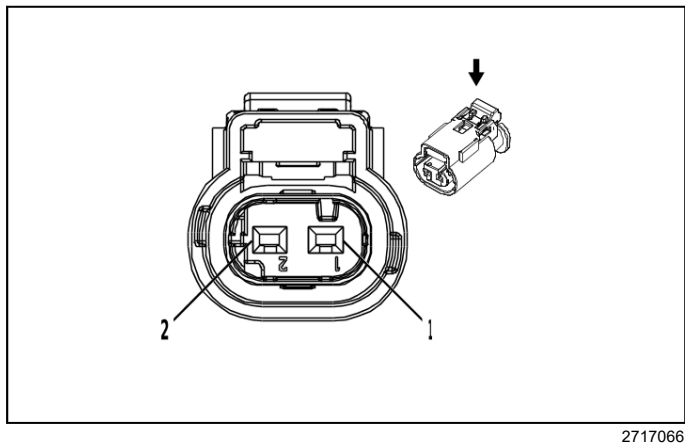
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	No Tool Required	No Tool Required

X129 Engine Wiring Harness to Oil Pump Flow Control Solenoid Valve Wiring Harness (L3B)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / BN	(1) 106	(1) I	(1) —	(1) Oil Pump Motor Control	(1) 1	(1) 0.5	(1) YE / BN	(1) 106	(1) II	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 179	(2) I	(2) —	(2) Engine Oil Pump Control	(2) 2	(2) 0.5	(2) BU	(2) 179	(2) II	(2) —

X129 Engine Wiring Harness to Oil Pump Flow Control Solenoid Valve Wiring Harness (LZ0)



- Connector Part Information**
- Harness Type: Engine Wiring Harness
 - OEM Connector: 10010337
 - Service Connector: 13587326
 - Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

- Connector Part Information**
- Harness Type: Oil Pump Flow Control Solenoid Valve Wiring Harness
 - OEM Connector: 12681015
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 2-Way M (BK)

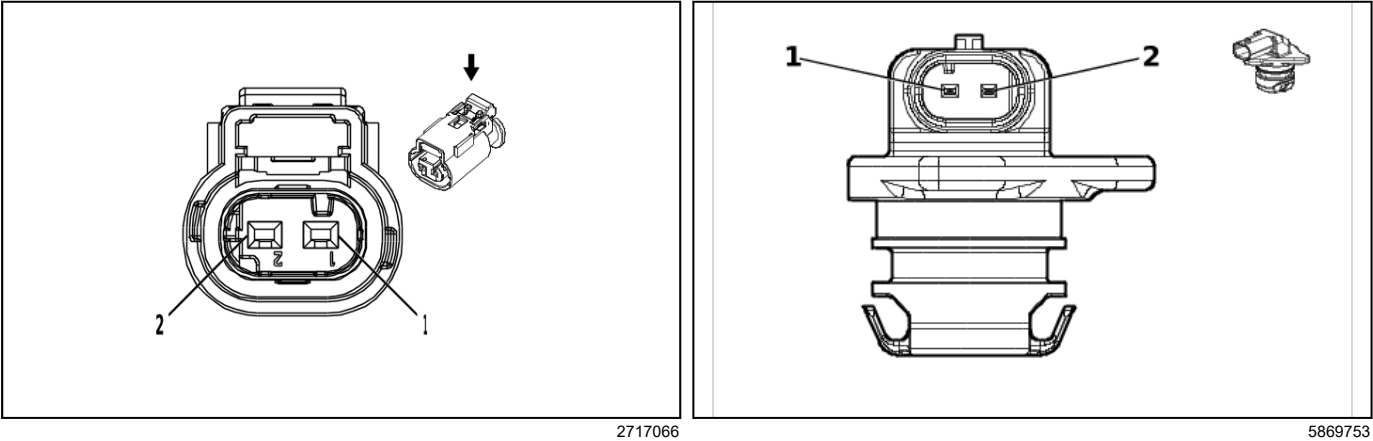
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	No Tool Required	No Tool Required

X129 Engine Wiring Harness to Oil Pump Flow Control Solenoid Valve Wiring Harness (LZ0)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / BN	(1) 106	(1) I	(1) —	(1) Oil Pump Motor Control	(1) 1	(1) 0.5	(1) YE / BN	(1) 106	(1) II	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 179	(2) I	(2) —	(2) Engine Oil Pump Control	(2) 2	(2) 0.5	(2) BU	(2) 179	(2) II	(2) —

X129 Engine Wiring Harness to Oil Pump Flow Control Solenoid Valve Wiring Harness (L87)



Connector Part Information

- Harness Type: Camshaft Position Sensor Wiring Harness
- OEM Connector: 13503566
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

Connector Part Information

- Harness Type: Oil Pump Flow Control Solenoid Valve Wire
- OEM Connector: 310832B
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 Series, Sealed(BK)

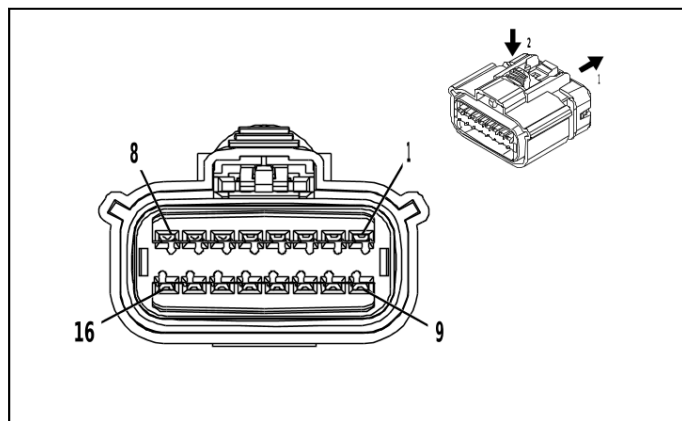
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	No Tool Required	No Tool Required

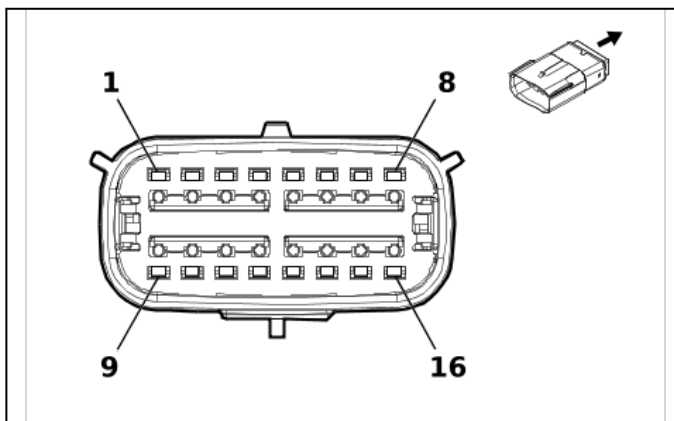
X129 Engine Wiring Harness to Oil Pump Flow Control Solenoid Valve Wiring Harness (L87)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BU	(1) 529 ₃	(1) I	(1) L87	(1) Powertrain Main Relay Fused Supply Voltage 4	(1) 1	(1) 0.5	(1) VT / BU	(1) 529 ₃	(1) II	(1) L87
(2) 2	(2) 0.5	(2) BU	(2) 179	(2) I	(2) L87	(2) Engine Oil Pump Control	(2) 2	(2) 0.5	(2) BU	(2) 179	(2) II	(2) L87

X150 Front Object Alarm Sensor Wiring Harness to Body Wiring Harness



4253394



2748079

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 13590423
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way F 1.5 OCS Series, Sealed(BK)

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35589680
- Service Connector: 26314575
- Description: 16-Way M 1.5 OCS Series, Sealed(BK)

Terminal Part Information

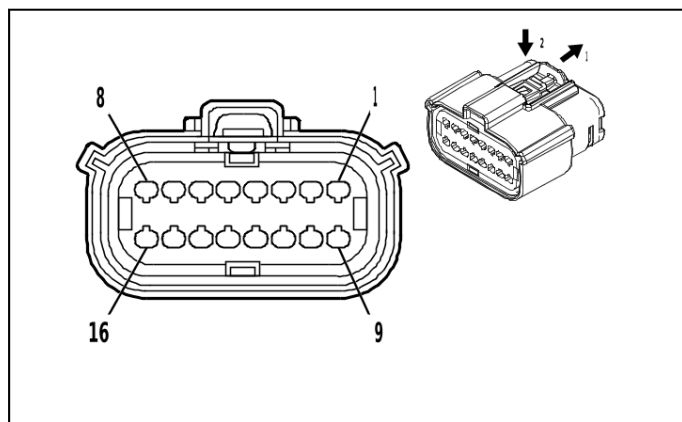
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	No Tool Required	No Tool Required
III	19352418	J-35616-3 (GY)	J-38125-215A
IV	Not required	No Tool Required	No Tool Required

X150 Front Object Alarm Sensor Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / GN	(1) 3140	(1) II	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / GN	(1) 3140	(1) IV	(1) —
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
(3) 3	(3) 0.5	(3) BK / BU	(3) 5214	(3) I	(3) —	(3) Front Parking Assist Sensor Low Reference	(3) 3	(3) 0.5	(3) BK / BU	(3) 5214	(3) III	(3) —
(4) 4	(4) 0.5	(4) VT / WH	(4) 5215	(4) I	(4) —	(4) Left Front Outer Parking Assist Sensor	(4) 4	(4) 0.5	(4) VT / WH	(4) 5215	(4) III	(4) —
(5) 5	(5) 0.5	(5) YE / GY	(5) 5216	(5) I	(5) —	(5) Left Front Middle Parking Assist Sensor	(5) 5	(5) 0.5	(5) YE / GY	(5) 5216	(5) III	(5) —
(6) 6	(6) 0.5	(6) W / H / GY	(6) 5217	(6) I	(6) —	(6) Right Front Outer Parking Assist Sensor	(6) 6	(6) 0.5	(6) W / H / GY	(6) 5217	(6) III	(6) —
(7) 7	(7) 0.5	(7) VT / GY	(7) 5218	(7) I	(7) —	(7) Right Front Middle Parking Assist Sensor	(7) 7	(7) 0.5	(7) VT / GY	(7) 5218	(7) III	(7) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(8) 8	(8) 0.5	(8) BK	(8) 650	(8) I	(8) —	(8) Ground	(8) 8	(8) 0.5	(8) BK	(8) 650	(8) III	(8) —
(9) 9	(9) 0.5	(9) BK / WH	(9) 651	(9) II	(9) —	(9) Signal Ground	(9) 9	(9) 0.5	(9) BK / WH	(9) 651	(9) IV	(9) —
(10) 10	(10) 0.5	(10) B N / GY	(10) 50 61	(10) I	(10) —	(10) Left Front Fog Lamp Control	(10) 10	(10) 0.5	(10) B N / GY	(10) 50 61	(10) III	(10) —
(11) 11	(11) 0.5	(11) B N	(11) 65 81	(11) I	(11) —	(11) Front Parking Assist Display Control	(11) 11	(11) 0.5	(11) B N	(11) 65 81	(11) III	(11) —
12 - 14	—	—	—	—	—	Not Occupied	12 - 14	—	—	—	—	—
(15) 15	(15) 0.5	(15) WH / GY	(15) 41 04	(15) II	(15) —	(15) AUTOSAR CAN Bus [-] 8 Serial Data	(15) 15	(15) 0.5	(15) WH / GY	(15) 41 04	(15) IV	(15) —
(16) 16	(16) 0.5	(16) B U / GY	(16) 41 05	(16) II	(16) —	(16) AUTOSAR CAN Bus [+] 8 Serial Data	(16) 16	(16) 0.5	(16) B U / GY	(16) 41 05	(16) IV	(16) —

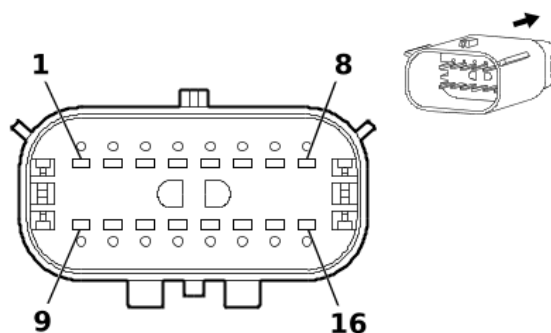
X160 Engine Wiring Harness to Fuel Injector Wiring Harness (L3B)



4574233

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 33386201
- Service Connector: 13584788
- Description: 16-Way F 1.5 MX Series, Sealed(BK)



2548390

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 33482-8641
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way M 1.5 MX Series, Sealed(BK)

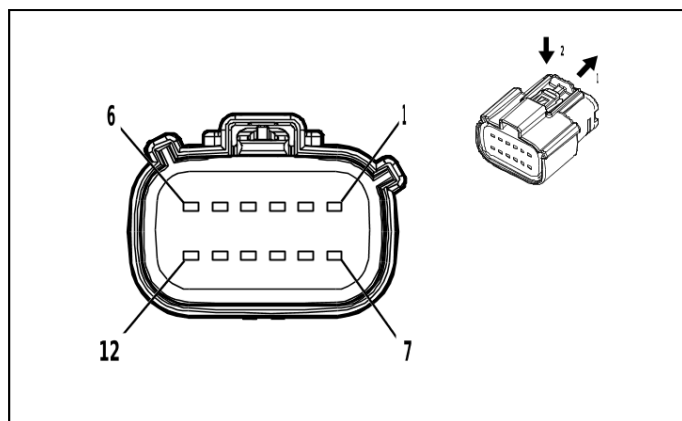
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368973	J-35616-2A (GY)	J-38125-217
II	Not required	No Tool Required	No Tool Required
III	Not required	J-35616-3 (GY)	No Tool Required

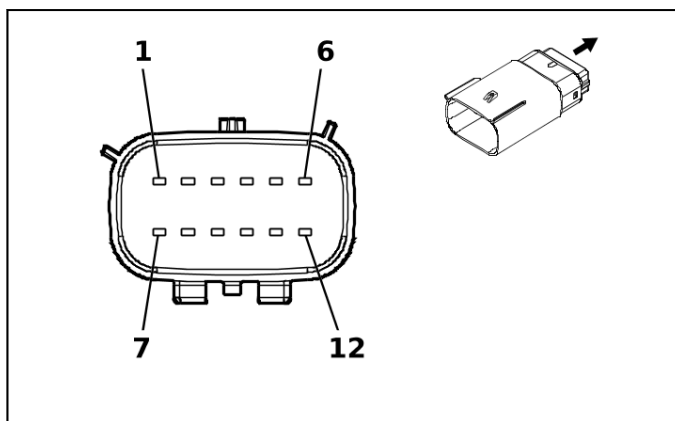
X160 Engine Wiring Harness to Fuel Injector Wiring Harness (L3B)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / GY	(1) 496	(1) I	(1) —	(1) Knock Sensor 1 Signal	(1) 1	(1) 0.5	(1) VT / GY	(1) 496	(1) III	(1) —
(2) 2	(2) 0.75	(2) BK / YE	(2) 480 ₁	(2) I	(2) —	(2) Direct Fuel Injector High Voltage Control Cylinder 1	(2) 2	(2) 0.8	(2) BN	(2) 480 ₁	(2) III	(2) —
(3) 3	(3) 0.5	(3) W H / RD	(3) 480	(3) II	(3) —	(3) Engine Control Vehicle Sensors 5 Volt Reference 1	(3) 3	(3) 0.5	(3) W H / RD	(3) 480	(3) III	(3) —
(4) 4	(4) 0.75	(4) GY / BU	(4) 480 ₄	(4) II	(4) —	(4) Direct Fuel Injector High Voltage Control Cylinder 4	(4) 4	(4) 0.8	(4) GY / BU	(4) 480 ₄	(4) III	(4) —
5	—	—	—	—	—	Not Occupied	5	—	—	—	—	—
(6) 6	(6) 0.75	(6) G N	(6) 480 ₃	(6) II	(6) —	(6) Direct Fuel Injector High Voltage Control Cylinder 3	(6) 6	(6) 0.8	(6) G N	(6) 480 ₃	(6) III	(6) —
(7) 7	(7) 0.75	(7) BU	(7) 480 ₂	(7) II	(7) —	(7) Direct Fuel Injector High Voltage Control Cylinder 2	(7) 7	(7) 0.8	(7) BU	(7) 480 ₂	(7) III	(7) —
(8) 8	(8) 0.5	(8) W H / GY	(8) 187 ₆	(8) II	(8) —	(8) Knock Sensor 2 Signal	(8) 8	(8) 0.5	(8) W H / GY	(8) 187 ₆	(8) III	(8) —
(9) 9	(9) 0.5	(9) BK / YE	(9) 171 ₆	(9) II	(9) —	(9) Knock Sensor Low Reference 1	(9) 9	(9) 0.5	(9) BK / YE	(9) 171 ₆	(9) III	(9) —
(10) 10	(10) 0.75	(10) B N / WH	(10) 49 ₀₁	(10) II	(10) —	(10) Direct Fuel Injector High Voltage Supply Cylinder 1	(10) 10	(10) 0.8	(10) B N / WH	(10) 49 ₀₁	(10) III	(10) —
(11) 11	(11) 0.5	(11) B U / WH	(11) 10 ₇₈₆	(11) II	(11) —	(11) Fuel Rail Pressure Sensor SENT 1 Signal	(11) 11	(11) 0.5	(11) B U / WH	(11) 10 ₇₈₆	(11) III	(11) —
(12) 12	(12) 0.5	(12) B K / GN	(12) 58 ₀	(12) II	(12) —	(12) Engine Control Sensors Low Reference 2	(12) 12	(12) 0.5	(12) B K / GN	(12) 58 ₀	(12) III	(12) —
(13) 13	(13) 0.75	(13) B U / WH	(13) 49 ₀₄	(13) II	(13) —	(13) Direct Fuel Injector High Voltage Supply Cylinder 4	(13) 13	(13) 0.8	(13) B U / WH	(13) 49 ₀₄	(13) III	(13) —
(14) 14	(14) 0.75	(14) G N / GY	(14) 49 ₀₃	(14) II	(14) —	(14) Direct Fuel Injector High Voltage Supply Cylinder 3	(14) 14	(14) 0.8	(14) G N / GY	(14) 49 ₀₃	(14) III	(14) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(15) 15	(15) 0.75	(15) B U / GY	(15) 49 02	(15) II	(15) —	(15) Direct Fuel Injector High Voltage Supply Cylinder 2	(15) 15	(15) 0.8	(15) B U / GY	(15) 49 02	(15) III	(15) —
(16) 16	(16) 0.5	(16) B K / GY	(16) 23 03	(16) II	(16) —	(16) Knock Sensor Low Reference 2	(16) 16	(16) 0.5	(16) B K / GY	(16) 23 03	(16) III	(16) —

X160 Engine Wiring Harness to Fuel Injector Wiring Harness (LZ0)

4584248



5187933

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 33472-1259
- Service Connector: 19333239
- Description: 12-Way F 1.5 MX Series, Sealed(D-GY)

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness
- OEM Connector: 33482-6261
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way M 1.5 MX Series, Sealed(GY)

Terminal Part Information

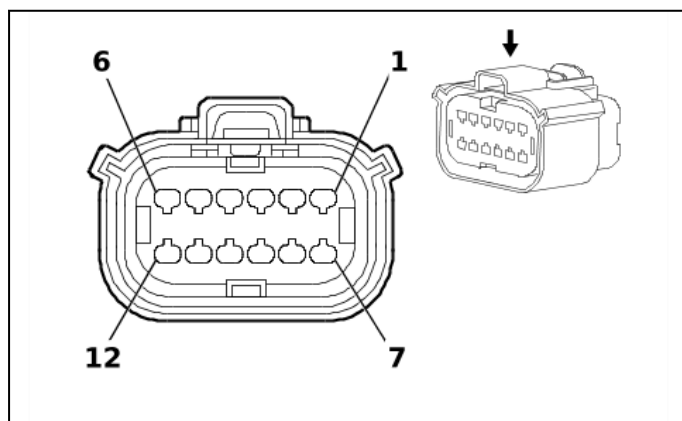
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217
II	Not required	J-35616-3 (GY)	No Tool Required

X160 Engine Wiring Harness to Fuel Injector Wiring Harness (LZ0)

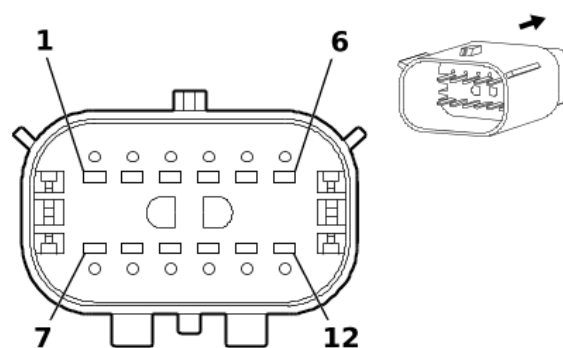
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) BN / WH	(1) 490 1	(1) I	(1) —	(1) Direct Fuel Injector High Voltage Supply Cylinder 1	(1) 1	(1) 1.5	(1) BN / WH	(1) 490 1	(1) II	(1) —
(2) 2	(2) 1.5	(2) BN	(2) 480 1	(2) I	(2) —	(2) Direct Fuel Injector High Voltage Control Cylinder 1	(2) 2	(2) 1.5	(2) BN	(2) 480 1	(2) II	(2) —
(3) 3	(3) 1.5	(3) BU / GY	(3) 490 2	(3) I	(3) —	(3) Direct Fuel Injector High Voltage Supply Cylinder 2	(3) 3	(3) 1.5	(3) BU / GY	(3) 490 2	(3) II	(3) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(4) 4	(4) 1. 5	(4) BU	(4) 480 2	(4) I	(4) —	(4) Direct Fuel Injector High Voltage Control Cylinder 2	(4) 4	(4) 1. 5	(4) BU	(4) 480 2	(4) II	(4) —
(5) 5	(5) 1. 5	(5) G N / GY	(5) 490 3	(5) I	(5) —	(5) Direct Fuel Injector High Voltage Supply Cylinder 3	(5) 5	(5) 1. 5	(5) G N / GY	(5) 490 3	(5) II	(5) —
(6) 6	(6) 1. 5	(6) G N	(6) 480 3	(6) I	(6) —	(6) Direct Fuel Injector High Voltage Control Cylinder 3	(6) 6	(6) 1. 5	(6) G N	(6) 480 3	(6) II	(6) —
(7) 7	(7) 1. 5	(7) BU / WH	(7) 490 4	(7) I	(7) —	(7) Direct Fuel Injector High Voltage Supply Cylinder 4	(7) 7	(7) 1. 5	(7) BU / WH	(7) 490 4	(7) II	(7) —
(8) 8	(8) 1. 5	(8) GY / BU	(8) 480 4	(8) I	(8) —	(8) Direct Fuel Injector High Voltage Control Cylinder 4	(8) 8	(8) 1. 5	(8) GY / BU	(8) 480 4	(8) II	(8) —
(9) 9	(9) 1. 5	(9) G N / WH	(9) 490 5	(9) I	(9) —	(9) Direct Fuel Injector High Voltage Supply Cylinder 5	(9) 9	(9) 1. 5	(9) G N / WH	(9) 490 5	(9) II	(9) —
(10) 10	(10) 1.5	(10) WH / GN	(10) 48 05	(10) I	(10) —	(10) Direct Fuel Injector High Voltage Control Cylinder 5	(10) 10	(10) 1.5	(10) WH / GN	(10) 48 05	(10) II	(10) —
(11) 11	(11) 1.5	(11) V T / GY	(11) 49 06	(11) I	(11) —	(11) Direct Fuel Injector High Voltage Supply Cylinder 6	(11) 11	(11) 1.5	(11) V T / GY	(11) 49 06	(11) II	(11) —
(12) 12	(12) 1.5	(12) V T / GN	(12) 48 06	(12) I	(12) —	(12) Direct Fuel Injector High Voltage Control Cylinder 6	(12) 12	(12) 1.5	(12) V T / GN	(12) 48 06	(12) II	(12) —

X160 Engine Wiring Harness to Fuel Injector Wiring Harness -Bank 1 (L84 / L87)



1825165



1825167

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 33472-1216
- Service Connector: 19352907
- Description: 12-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Bank 1
- OEM Connector: 13520581
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

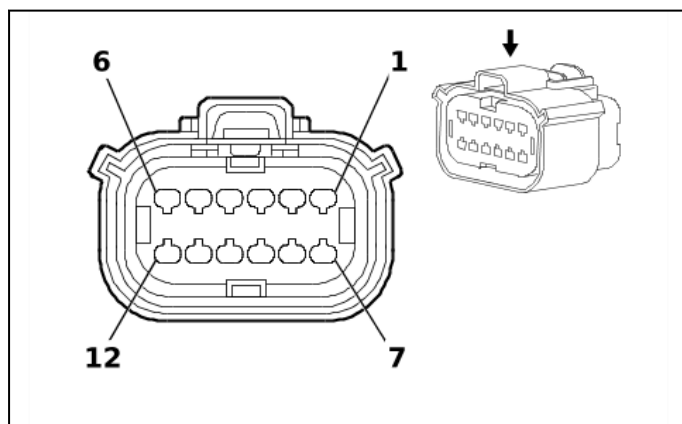
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217
II	Not required	J-35616-3 (GY)	No Tool Required

X160 Engine Wiring Harness to Fuel Injector Wiring Harness -Bank 1 (L84 / L87)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / WH	(1) 490 ₁	(1) I	(1) —	(1) Direct Fuel Injector High Voltage Supply Cylinder 1	(1) 1	(1) 0.75	(1) BN / WH	(1) 490 ₁	(1) II	(1) —
(2) 2	(2) 0.75	(2) G N / BK	(2) 490 ₃	(2) I	(2) —	(2) Direct Fuel Injector High Voltage Supply Cylinder 3	(2) 2	(2) 0.75	(2) G N / GY	(2) 490 ₃	(2) II	(2) —
(3) 3	(3) 0.75	(3) G N / WH	(3) 490 ₅	(3) I	(3) —	(3) Direct Fuel Injector High Voltage Supply Cylinder 5	(3) 3	(3) 0.75	(3) G N / WH	(3) 490 ₅	(3) II	(3) —
(4) 4	(4) 0.75	(4) W H / YE	(4) 490 ₇	(4) I	(4) —	(4) Direct Fuel Injector High Voltage Supply Cylinder 7	(4) 4	(4) 0.75	(4) W H / YE	(4) 490 ₇	(4) II	(4) —
(5) 5	(5) 0.75	(5) BN	(5) 480 ₁	(5) I	(5) —	(5) Direct Fuel Injector High Voltage Control Cylinder 1	(5) 5	(5) 0.75	(5) BN	(5) 480 ₁	(5) II	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(7) 7	(7) 0.75	(7) G N	(7) 480 3	(7) I	(7) —	(7) Direct Fuel Injector High Voltage Control Cylinder 3	(7) 7	(7) 0.75	(7) G N	(7) 480 3	(7) II	(7) —
(8) 8	(8) 0.75	(8) W H / GN	(8) 480 5	(8) I	(8) —	(8) Direct Fuel Injector High Voltage Control Cylinder 5	(8) 8	(8) 0.75	(8) W H / GN	(8) 480 5	(8) II	(8) —
(9) 9	(9) 0.75	(9) YE / GY	(9) 480 7	(9) I	(9) —	(9) Direct Fuel Injector High Voltage Control Cylinder 7	(9) 9	(9) 0.75	(9) YE / GY	(9) 480 7	(9) II	(9) —
(10) 10	(10) 0.5	(10) WH / RD	(10) 48 0	(10) I	(10) —	(10) Engine Control Vehicle Sensors 5 Volt Reference 1	(10) 10	(10) 0.5	(10) B N / RD	(10) 48 0	(10) II	(10) —
(11) 11	(11) 0.5	(11) B U / WH	(11) 10 786	(11) I	(11) —	(11) Fuel Rail Pressure Sensor SENT 1 Signal	(11) 11	(11) 0.5	(11) B U / WH	(11) 10 786	(11) II	(11) —
(12) 12	(12) 0.5	(12) B K / YE	(12) 54 8	(12) I	(12) —	(12) Engine Control Sensors Low Reference 1	(12) 12	(12) 0.5	(12) B K / GN	(12) 54 8	(12) II	(12) —

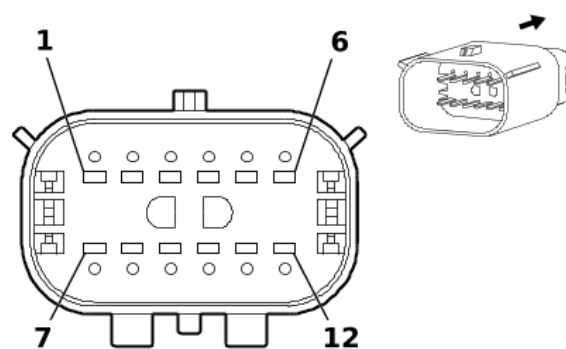
X161 Engine Wiring Harness to Fuel Injector Wiring Harness - Bank 2 (L84 / L87)



1825165

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 33472-1226
- Service Connector: 19352907
- Description: 12-Way F 1.5 MX Series, Sealed(BK)



1825167

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Bank 2
- OEM Connector: 334826211
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way M 1.5 MX Series, Sealed(BK)

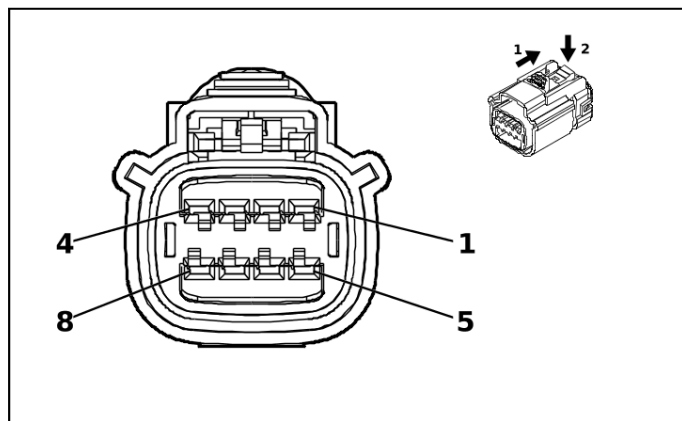
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217
II	Not required	J-35616-3 (GY)	No Tool Required

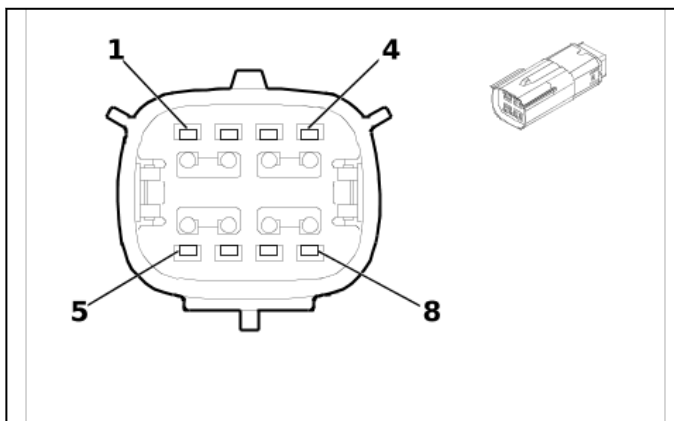
X161 Engine Wiring Harness to Fuel Injector Wiring Harness - Bank 2 (L84 / L87)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / BK	(1) 490 2	(1) I	(1) —	(1) Direct Fuel Injector High Voltage Supply Cylinder 2	(1) 1	(1) 0.75	(1) BU / GY	(1) 490 2	(1) II	(1) —
(2) 2	(2) 0.75	(2) BU / WH	(2) 490 4	(2) I	(2) —	(2) Direct Fuel Injector High Voltage Supply Cylinder 4	(2) 2	(2) 0.75	(2) BU / WH	(2) 490 4	(2) II	(2) —
(3) 3	(3) 0.75	(3) VT / GY	(3) 490 6	(3) I	(3) —	(3) Direct Fuel Injector High Voltage Supply Cylinder 6	(3) 3	(3) 0.75	(3) VT / GY	(3) 490 6	(3) II	(3) —
(4) 4	(4) 0.75	(4) GY / WH	(4) 490 8	(4) I	(4) —	(4) Direct Fuel Injector High Voltage Supply Cylinder 8	(4) 4	(4) 0.75	(4) GY / WH	(4) 490 8	(4) II	(4) —
(5) 5	(5) 0.75	(5) BU	(5) 480 2	(5) I	(5) —	(5) Direct Fuel Injector High Voltage Control Cylinder 2	(5) 5	(5) 0.75	(5) BU	(5) 480 2	(5) II	(5) —
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—
(8) 8	(8) 0.75	(8) GY / BU	(8) 480 4	(8) I	(8) —	(8) Direct Fuel Injector High Voltage Control Cylinder 4	(8) 8	(8) 0.75	(8) GY / BU	(8) 480 4	(8) II	(8) —
(9) 9	(9) 0.75	(9) VT / GN	(9) 480 6	(9) I	(9) —	(9) Direct Fuel Injector High Voltage Control Cylinder 6	(9) 9	(9) 0.75	(9) VT / GN	(9) 480 6	(9) II	(9) —
(10) 10	(10) 0.75	(10) G / Y	(10) 48 08	(10) I	(10) —	(10) Direct Fuel Injector High Voltage Control Cylinder 8	(10) 10	(10) 0.75	(10) G / Y	(10) 48 08	(10) II	(10) —
(11) 11	(11) 0.75	(11) V / BK	(11) 73 00	(11) I	(11) —	(11) High Pressure Fuel Pump Low Control	(11) 11	(11) 0.75	(11) V / BK	(11) 73 00	(11) II	(11) —
(12) 12	(12) 0.75	(12) Y / E	(12) 73 01	(12) I	(12) —	(12) High Pressure Fuel Pump High Control	(12) 12	(12) 0.75	(12) Y / E	(12) 73 01	(12) II	(12) —

X162 Front Object Alarm Sensor Wiring Harness to Front Object Alarm Sensor Wiring Harness - Jumper (UKL)



5253496



5402096

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 35507578
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 1.5 OCS Series, Sealed(BK)

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness - Jumper
- OEM Connector: 15514651
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way M 1.5 OCS Series, Sealed(BK)

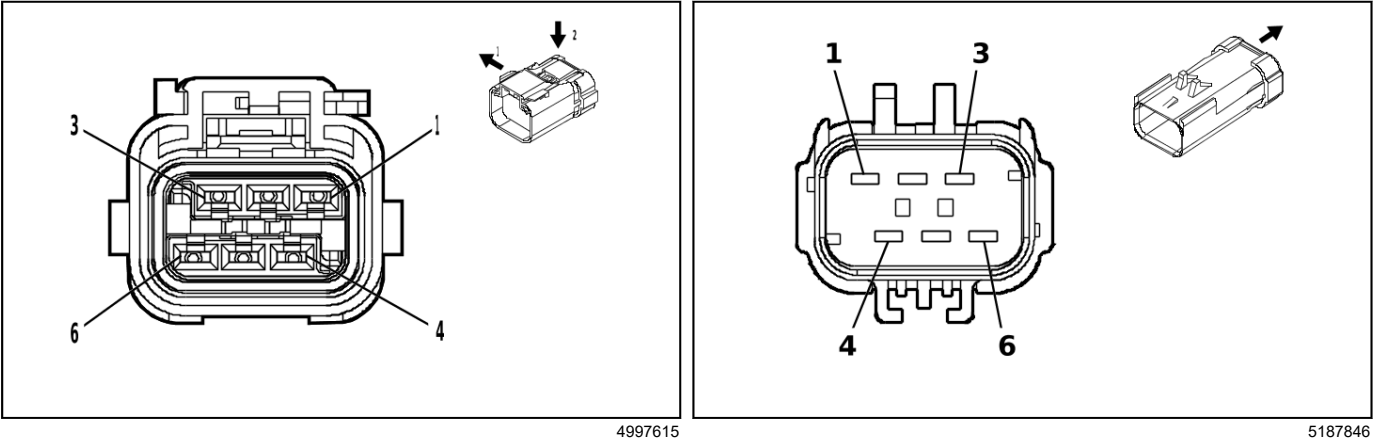
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X162 Front Object Alarm Sensor Wiring Harness to Front Object Alarm Sensor Wiring Harness - Jumper (UKL)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / GN	(1) 3140	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / GN	(1) 3140	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / WH	(2) 651	(2) I	(2) —	(2) Signal Ground	(2) 2	(2) 0.5	(2) BK / WH	(2) 651	(2) II	(2) —
(3) 3	(3) 0.5	(3) BU / GY	(3) 4105	(3) I	(3) —	(3) AUTOSAR CAN Bus [+] 8 Serial Data	(3) 3	(3) 0.5	(3) BU / GY	(3) 4105	(3) II	(3) —
(4) 4	(4) 0.5	(4) BU / GY	(4) 4105	(4) I	(4) —	(4) AUTOSAR CAN Bus [+] 8 Serial Data	(4) 4	(4) 0.5	(4) BU / GY	(4) 4105	(4) II	(4) —
(5) 5	(5) 0.5	(5) BK / WH	(5) 651	(5) I	(5) —	(5) Signal Ground	(5) 5	(5) 0.5	(5) BK / WH	(5) 651	(5) II	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 0.5	(7) WH / GY	(7) 4104	(7) I	(7) —	(7) AUTOSAR CAN Bus [-] 8 Serial Data	(7) 7	(7) 0.5	(7) WH / GY	(7) 4104	(7) II	(7) —
(8) 8	(8) 0.5	(8) WH / GY	(8) 4104	(8) I	(8) —	(8) AUTOSAR CAN Bus [-] 8 Serial Data	(8) 8	(8) 0.5	(8) WH / GY	(8) 4104	(8) II	(8) —

X163 Engine Wiring Harness to Diesel Glow Plug Wiring Harness



Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35063643
- Service Connector: 86825462
- Description: 6-Way F 2.8 APEX Series, Sealed(BK)

Connector Part Information

- Harness Type: Diesel Glow Plug Wiring Harness
- OEM Connector: 54200612
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way M 2.8 APEX Series, Sealed(BK)

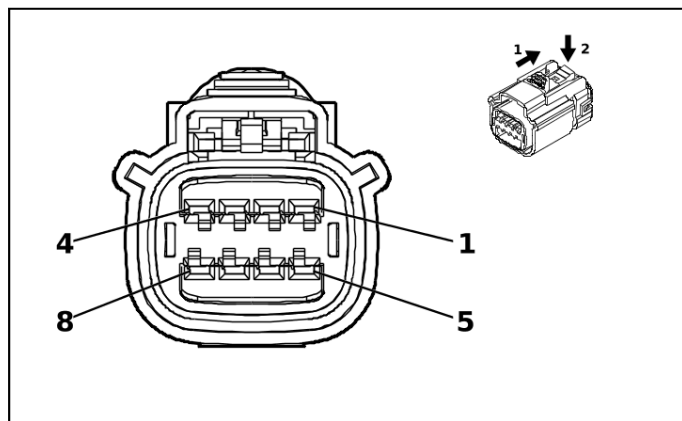
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

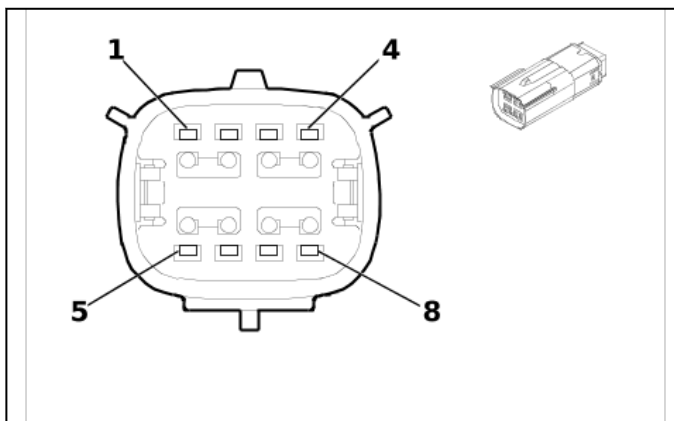
X163 Engine Wiring Harness to Diesel Glow Plug Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY / BU	(1) 158 1	(1) I	(1) —	(1) Glow Plug 1 Control	(1) 1	(1) 2.5	(1) GY / RD	(1) 158 1	(1) II	(1) —
(2) 2	(2) 2.5	(2) GY / BN	(2) 158 2	(2) I	(2) —	(2) Glow Plug 2 Control	(2) 2	(2) 2.5	(2) GY / BK	(2) 158 2	(2) II	(2) —
(3) 3	(3) 2.5	(3) GY / GN	(3) 158 3	(3) I	(3) —	(3) Glow Plug 3 Control	(3) 3	(3) 2.5	(3) GY / GN	(3) 158 3	(3) II	(3) —
(4) 4	(4) 2.5	(4) GY / YE	(4) 158 4	(4) I	(4) —	(4) Glow Plug 4 Control	(4) 4	(4) 2.5	(4) GY / YE	(4) 158 4	(4) II	(4) —
(5) 5	(5) 2.5	(5) GY / WH	(5) 158 5	(5) I	(5) —	(5) Glow Plug 5 Control	(5) 5	(5) 2.5	(5) GY / WH	(5) 158 5	(5) II	(5) —
(6) 6	(6) 2.5	(6) GY / VT	(6) 158 6	(6) I	(6) —	(6) Glow Plug 6 Control	(6) 6	(6) 2.5	(6) GY	(6) 158 6	(6) II	(6) —

X165 Front Object Alarm Sensor Wiring Harness to Front Object Alarm Sensor Wiring Harness - Jumper (UKL)



5253496



5402096

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 35507578
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 1.5 OCS Series, Sealed(BK)

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness - Jumper
- OEM Connector: 15514651
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way M 1.5 OCS Series, Sealed(BK)

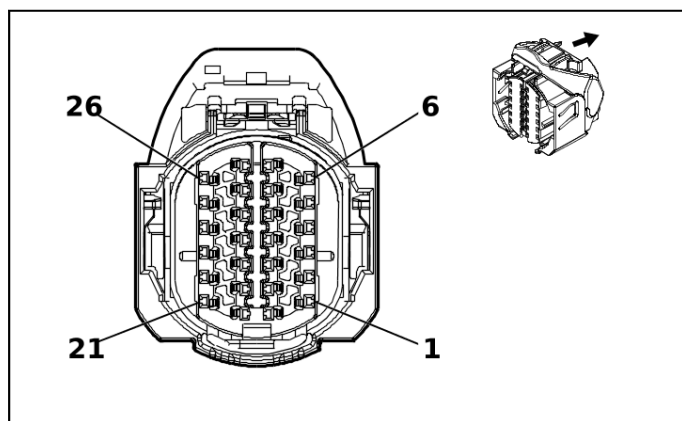
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X165 Front Object Alarm Sensor Wiring Harness to Front Object Alarm Sensor Wiring Harness - Jumper (UKL)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / GN	(1) 3140	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / GN	(1) 3140	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / WH	(2) 651	(2) I	(2) —	(2) Signal Ground	(2) 2	(2) 0.5	(2) BK / WH	(2) 651	(2) II	(2) —
(3) 3	(3) 0.5	(3) BU / GY	(3) 4105	(3) I	(3) —	(3) AUTOSAR CAN Bus [+] 8 Serial Data	(3) 3	(3) 0.5	(3) BU / GY	(3) 4105	(3) II	(3) —
(4) 4	(4) 0.5	(4) BU / GY	(4) 4105	(4) I	(4) —	(4) AUTOSAR CAN Bus [+] 8 Serial Data	(4) 4	(4) 0.5	(4) BU / GY	(4) 4105	(4) II	(4) —
(5) 5	(5) 0.5	(5) BK / WH	(5) 651	(5) I	(5) —	(5) Signal Ground	(5) 5	(5) 0.5	(5) BK / WH	(5) 651	(5) II	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 0.5	(7) W H / GY	(7) 4104	(7) I	(7) —	(7) AUTOSAR CAN Bus [-] 8 Serial Data	(7) 7	(7) 0.5	(7) W H / GY	(7) 4104	(7) II	(7) —
(8) 8	(8) 0.5	(8) W H / GY	(8) 4104	(8) I	(8) —	(8) AUTOSAR CAN Bus [-] 8 Serial Data	(8) 8	(8) 0.5	(8) W H / GY	(8) 4104	(8) II	(8) —

X175 Engine Wiring Harness to Automatic Transmission Wiring Harness - Case (MQC)



5275597

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2327375-1
- Service Connector: 13528029
- Description: 26-Way F 1.2 MCON Series, Sealed(BK)

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 26-Way M (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19331733	J-35616-12 (BU)	J-38125-553
II	84963773	J-35616-12 (BU)	J-38125-215A
III	Not required	No Tool Required	No Tool Required

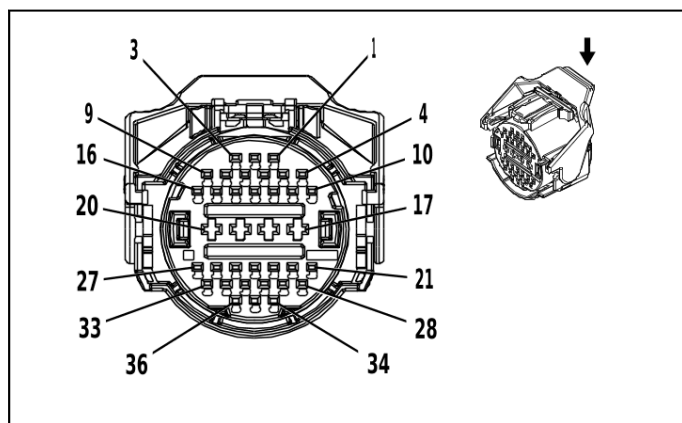
X175 Engine Wiring Harness to Automatic Transmission Wiring Harness - Case (MQC)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) G N / YE	(1) 635 3	(1) I	(1) —	(1) Input Speed Signal	(1) 1	(1) 0.5	(1) G N / YE	(1) 635 3	(1) III	(1) —
(2) 2	(2) 0.5	(2) G N / VT	(2) 451 0	(2) I	(2) —	(2) Transmission Intermediate Speed Signal	(2) 2	(2) 0.5	(2) G N / VT	(2) 451 0	(2) III	(2) —
(3) 3	(3) 0.5	(3) BN / WH	(3) 625 4	(3) I	(3) —	(3) Transmission Input Speed Sensor Signal	(3) 3	(3) 0.5	(3) BN / WH	(3) 625 4	(3) III	(3) —
(4) 4	(4) 0.5	(4) GY / BU	(4) 635 8	(4) I	(4) —	(4) Output Speed Signal	(4) 4	(4) 0.5	(4) GY / BU	(4) 635 8	(4) III	(4) —
(5) 5	(5) 0.5	(5) W H / YE	(5) 631 7	(5) I	(5) —	(5) Electronic Transmission Range Select Out of Park Switch Signal	(5) 5	(5) 0.5	(5) W H / YE	(5) 631 7	(5) III	(5) —
(6) 6	(6) 0.5	(6) VT / WH	(6) 631 9	(6) I	(6) —	(6) Electronic Transmission Range Select Out of Park Switch 2 Signal	(6) 6	(6) 0.5	(6) VT / WH	(6) 631 9	(6) III	(6) —

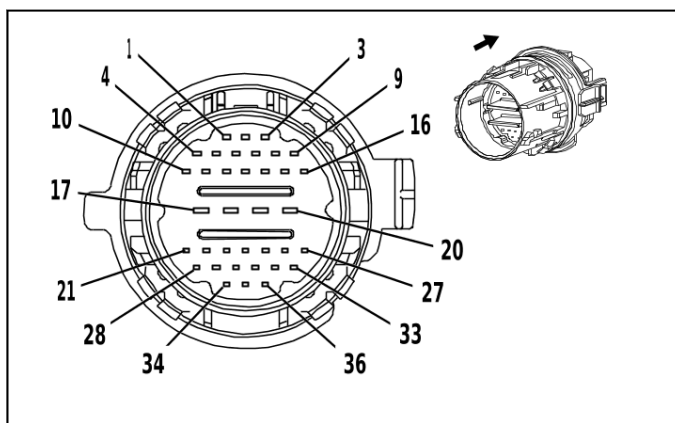
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(7) 7	(7) 0.5	(7) YE / GN	(7) 417 0	(7) I	(7) —	(7) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(7) 7	(7) 0.5	(7) YE / GN	(7) 417 0	(7) III	(7) —
(8) 8	(8) 0.5	(8) YE / BU	(8) 417 1	(8) I	(8) —	(8) Transmission Input Shaft Speed Sensor Circuit 9V Reference	(8) 8	(8) 0.5	(8) YE / BU	(8) 417 1	(8) III	(8) —
(9) 9	(9) 0.5	(9) GY / BN	(9) 638 8	(9) I	(9) —	(9) Transmission High Side Driver 2 Control	(9) 9	(9) 0.5	(9) GY / BN	(9) 638 8	(9) III	(9) —
(10) 10	(10) 1.5	(10) RD / GY	(10) 85 40	(10) II	(10) —	(10) Battery Positive Voltage	(10) 10	(10) 1.5	(10) RD / GY	(10) 85 40	(10) III	(10) —
(11) 11	(11) 0.5	(11) GN / GY	(11) 63 87	(11) I	(11) —	(11) Transmission High Side Driver 1 Control	(11) 11	(11) 0.5	(11) GN / GY	(11) 63 87	(11) III	(11) —
(12) 12	(12) 0.5	(12) WH / YE	(12) 21 59	(12) I	(12) —	(12) Park Inhibit Solenoid Assembly Control	(12) 12	(12) 0.5	(12) WH / YE	(12) 21 59	(12) III	(12) —
(13) 13	(13) 0.5	(13) BN / WH	(13) 58 5	(13) I	(13) —	(13) Transmission Fluid Temperature Sensor Signal	(13) 13	(13) 0.5	(13) BN / WH	(13) 58 5	(13) III	(13) —
(14) 14	(14) 0.5	(14) YE / BN	(14) 64 04	(14) I	(14) —	(14) Clutch Solenoid Valve E Control	(14) 14	(14) 0.5	(14) YE / BN	(14) 64 04	(14) III	(14) —
(15) 15	(15) 0.5	(15) GY / GN	(15) 64 03	(15) I	(15) —	(15) Clutch Solenoid Valve D Control	(15) 15	(15) 0.5	(15) GY / GN	(15) 64 03	(15) III	(15) —
(16) 16	(16) 0.5	(16) GY	(16) 64 02	(16) I	(16) —	(16) Clutch Solenoid Valve C Control	(16) 16	(16) 0.5	(16) GY	(16) 64 02	(16) III	(16) —
(17) 17	(17) 1.5	(17) BK	(17) 45 0	(17) II	(17) —	(17) Ground	(17) 17	(17) 1.5	(17) BK	(17) 45 0	(17) III	(17) —
(18) 18	(18) 0.5	(18) GN / WH	(18) 29 68	(18) I	(18) —	(18) Transmission Auxiliary Fluid Pump Control	(18) 18	(18) 0.5	(18) GN / WH	(18) 29 68	(18) III	(18) —
(19) 19	(19) 0.5	(19) GN / BK	(19) 78 19	(19) I	(19) —	(19) Default Disable Solenoid Control	(19) 19	(19) 0.5	(19) GN / BK	(19) 78 19	(19) III	(19) —
(20) 20	(20) 0.5	(20) BN	(20) 37 06	(20) I	(20) —	(20) Electronic Transmission Range Select Switch Analog Signal 1	(20) 20	(20) 0.5	(20) BN	(20) 37 06	(20) III	(20) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(21) 21	(21) 0.5	(21) V T	(21) 45 09	(21) I	(21) —	(21) Transmis sion Clutch F Control	(21) 21	(21) 0.5	(21) V T	(21) 45 09	(21) III	(21) —
(22) 22	(22) 0.5	(22) WH / BU	(22) 45 07	(22) I	(22) —	(22) Transmis sion Clutch H Control	(22) 22	(22) 0.5	(22) WH / BU	(22) 45 07	(22) III	(22) —
(23) 23	(23) 0.5	(23) WH	(23) 45 08	(23) I	(23) —	(23) Transmis sion Clutch G Control	(23) 23	(23) 0.5	(23) WH	(23) 45 08	(23) III	(23) —
(24) 24	(24) 0.5	(24) G N / WH	(24) 15 30	(24) I	(24) —	(24) Transmis sion Line Pressure Control Solenoid Valve Control	(24) 24	(24) 0.5	(24) G N / WH	(24) 15 30	(24) III	(24) —
(25) 25	(25) 0.5	(25) V T / WH	(25) 42 2	(25) I	(25) —	(25) Torque Converter Clutch Solenoid Valve Control	(25) 25	(25) 0.5	(25) V T / WH	(25) 42 2	(25) III	(25) —
(26) 26	(26) 0.5	(26) B K / BN	(26) 58 6	(26) I	(26) —	(26) Transmis sion Fluid Temperature Sensor Low Reference	(26) 26	(26) 0.5	(26) B K / BN	(26) 58 6	(26) III	(26) —

X175 Engine Wiring Harness to Automatic Transmission Wiring Harness - Case (MFC)



3621473



3977661

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 2138314-1
- Service Connector: 19329922
- Description: 36-Way F 1.2 MCON-CB, 2.8 MCP Series, Sealed(BK)

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 3977661
- Service Connector: Service by Harness - See Part Catalog
- Description: 36-Way M (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575368	J-35616-35 (VT)	J-38125-36
II	19300445	J-35616-12 (BU)	J-38125-11A
III	Not required	No Tool Required	No Tool Required
IV	Not required	No Tool Required	No Tool Required

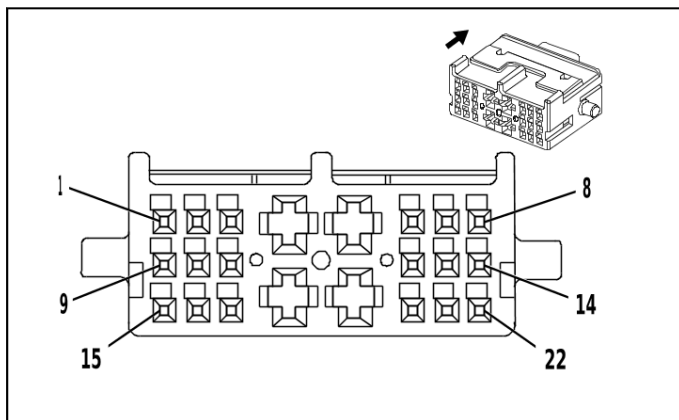
X175 Engine Wiring Harness to Automatic Transmission Wiring Harness - Case (MFC)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) G N / WH	(1) 638 0	(1) II	(1) —	(1) Torque Converter Clutch Enable Solenoid Valve A Control	(1) 1	(1) 0.5	(1) G N / WH	(1) 638 0	(1) IV	(1) —
(2) 2	(2) 0.5	(2) G N / GY	(2) 638 7	(2) III	(2) —	(2) Transmis- sion High Side Driver 1 Control	(2) 2	(2) 0.5	(2) YE / GN	(2) 638 7	(2) IV	(2) —
(3) 3	(3) 0.5	(3) VT / WH	(3) 422	(3) II	(3) —	(3) Torque Converter Clutch Solenoid Valve Control	(3) 3	(3) 0.5	(3) YE / BN	(3) 422	(3) IV	(3) —
(4) 4	(4) 0.5	(4) G N / WH	(4) 153 0	(4) II	(4) —	(4) Transmis- sion Line Pressure Control Solenoid Valve Control	(4) 4	(4) 0.5	(4) GY / GN	(4) 153 0	(4) IV	(4) —
(5) 5	(5) 0.5	(5) BN	(5) 640 0	(5) II	(5) —	(5) Clutch Solenoid Valve A Control	(5) 5	(5) 0.5	(5) BN	(5) 640 0	(5) IV	(5) —
(6) 6	(6) 0.5	(6) BU	(6) 640 1	(6) II	(6) —	(6) Clutch Solenoid Valve B Control	(6) 6	(6) 0.5	(6) BU	(6) 640 1	(6) IV	(6) —
(7) 7	(7) 0.5	(7) YE / BN	(7) 621 0	(7) II	(7) —	(7) Torque Converter Clutch Enable Solenoid Valve B Control	(7) 7	(7) 0.5	(7) YE / BN	(7) 621 0	(7) IV	(7) —
(8) 8	(8) 0.5	(8) G N / WH	(8) 296 8	(8) II	(8) —	(8) Transmis- sion Auxiliary Fluid Pump Control	(8) 8	(8) 0.5	(8) GY / OG	(8) 296 8	(8) IV	(8) —
9	—	—	—	—	—	Not Occupied	9	—	—	—	—	—
(10) 10	(10) 0.5	(10) G Y	(10) 64 02	(10) II	(10) —	(10) Clutch Solenoid Valve C Control	(10) 10	(10) 0.5	(10) G Y	(10) 64 02	(10) IV	(10) —
(11) 11	(11) 0.5	(11) B K / BN	(11) 58 6	(11) II	(11) —	(11) Transmis- sion Fluid Temperature Sensor Low Reference	(11) 11	(11) 0.5	(11) B K / BN	(11) 58 6	(11) IV	(11) —
(12) 12	(12) 0.5	(12) B N / WH	(12) 58 5	(12) II	(12) —	(12) Transmis- sion Fluid Temperature Sensor Signal	(12) 12	(12) 0.5	(12) B N / WH	(12) 58 5	(12) IV	(12) —
(13) 13	(13) 0.5	(13) WH	(13) 45 08	(13) II	(13) —	(13) Transmis- sion Clutch G Control	(13) 13	(13) 0.5	(13) WH	(13) 45 08	(13) IV	(13) —
(14) 14	(14) 0.5	(14) WH / BU	(14) 45 07	(14) II	(14) —	(14) Transmis- sion Clutch H Control	(14) 14	(14) 0.5	(14) WH / BU	(14) 45 07	(14) IV	(14) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
15 - 16	—	—	—	—	—	Not Occupied	15 - 16	—	—	—	—	—
(17) 17	(17) 1.5	(17) R D / GY	(17) 85 40	(17) I	(17) —	(17) Battery Positive Voltage	(17) 17	(17) 1.5	(17) G N / VT	(17) 85 40	(17) IV	(17) —
(18) 18	(18) 0.5	(18) G N / GY	(18) 63 87	(18) I	(18) —	(18) Transmission High Side Driver 1 Control	(18) 18	(18) 0.5	(18) G N / GY	(18) 63 87	(18) IV	(18) —
(19) 19	(19) 0.5	(19) G Y / BN	(19) 63 88	(19) I	(19) —	(19) Transmission High Side Driver 2 Control	(19) 19	(19) 0.5	(19) G Y / BN	(19) 63 88	(19) IV	(19) —
(20) 20	(20) 1.5	(20) B K	(20) 45 0	(20) I	(20) —	(20) Ground	(20) 20	(20) 1.5	(20) B K / YE	(20) 45 0	(20) IV	(20) —
(21) 21	(21) 0.5	(21) G N / YE	(21) 33 37	(21) II	(21) —	(21) Transmission Internal Mode Switch Mode Control Y	(21) 21	(21) 0.5	(21) G N / YE	(21) 33 37	(21) IV	(21) —
(22) 22	(22) 0.5	(22) B U / WH	(22) 33 38	(22) II	(22) —	(22) Transmission Internal Mode Switch Mode Control X	(22) 22	(22) 0.5	(22) B U / WH	(22) 33 38	(22) IV	(22) —
23	—	—	—	—	—	Not Occupied	23	—	—	—	—	—
(24) 24	(24) 0.5	(24) G Y / BU	(24) 63 58	(24) II	(24) —	(24) Output Speed Signal	(24) 24	(24) 0.5	(24) G Y / BU	(24) 63 58	(24) IV	(24) —
(25) 25	(25) 0.5	(25) Y E / GN	(25) 41 70	(25) II	(25) —	(25) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(25) 25	(25) 0.5	(25) Y E / GN	(25) 41 70	(25) IV	(25) —
(26) 26	(26) 0.5	(26) B K / YE	(26) 62 53	(26) II	(26) —	(26) Transmission Input Speed Sensor Ground	(26) 26	(26) 0.5	(26) G N / YE	(26) 62 53	(26) IV	(26) —
(27) 27	(27) 0.5	(27) Y E / BU	(27) 41 71	(27) II	(27) —	(27) Transmission Input Shaft Speed Sensor Circuit 9V Reference	(27) 27	(27) 0.5	(27) WH / RD	(27) 41 71	(27) IV	(27) —
28	—	—	—	—	—	Not Occupied	28	—	—	—	—	—
(29) 29	(29) 0.5	(29) WH / RD	(29) 48 0	(29) II	(29) —	(29) Engine Control Vehicle Sensors 5 Volt Reference 1	(29) 29	(29) 0.5	(29) WH / RD	(29) 48 0	(29) IV	(29) —
(30) 30	(30) 0.5	(30) B K / GY	(30) 62 6	(30) II	(30) —	(30) Engine Control Vehicle Sensors Low Reference 1	(30) 30	(30) 0.5	(30) B K / GY	(30) 62 6	(30) IV	(30) —
31	—	—	—	—	—	Not Occupied	31	—	—	—	—	—
(32) 32	(32) 0.5	(32) G N / VT	(32) 45 10	(32) II	(32) —	(32) Transmission Intermediate Speed Signal	(32) 32	(32) 0.5	(32) G N / VT	(32) 45 10	(32) IV	(32) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
33	—	—	—	—	—	Not Occupied	33	—	—	—	—	—
(34) 34	(34) 0.5	(34) G Y / RD	(34) 10 817	(34) II	(34) —	(34) Lubricant Circuit Pressure Sensor 5 Volt Reference	(34) 34	(34) 0.5	(34) G N	(34) 10 817	(34) IV	(34) —
(35) 35	(35) 0.5	(35) B U / BK	(35) 10 819	(35) II	(35) —	(35) Lubricant Circuit Pressure Sensor Low Reference	(35) 35	(35) 0.5	(35) G N / BK	(35) 10 819	(35) IV	(35) —
(36) 36	(36) 0.5	(36) G N / YE	(36) 10 816	(36) II	(36) —	(36) Lubricant Circuit Pressure Sensor Signal	(36) 36	(36) 0.5	(36) B U / YE	(36) 10 816	(36) IV	(36) —

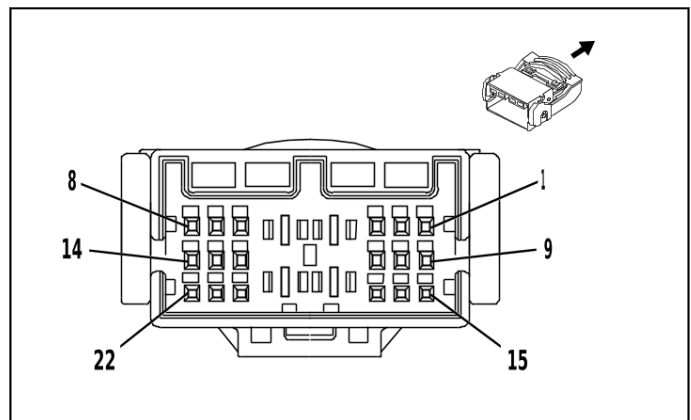
X176 Automatic Transmission Wiring Harness - Case to Automatic Transmission Wiring Harness - Control (MHS / MQC)



3977748

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 1897543-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 22-Way F 0.64 Micro-Quadlock, 2.8 Micro-Power Series(NA)



3977770

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 1897540-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 22-Way M 0.64 Micro-Quadlock, 2.8 Micro-Power Series(NA)

Terminal Part Information

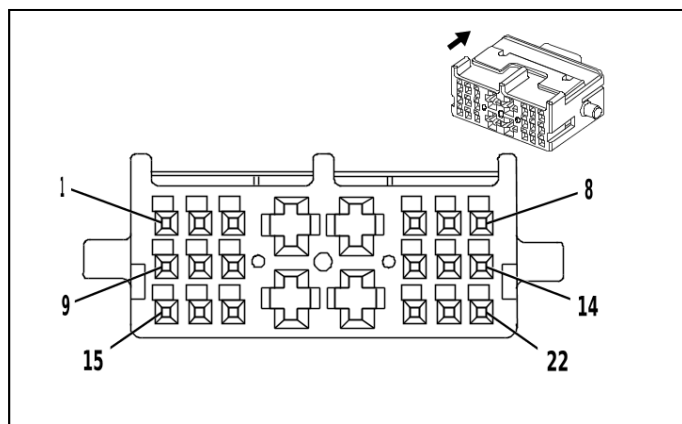
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required
II	Not required	J-35616-64B (L-BU)	No Tool Required
III	Not required	J-35616-5 (PU)	No Tool Required
IV	Not required	J-35616-65B (L-BU)	No Tool Required

X176 Automatic Transmission Wiring Harness - Case to Automatic Transmission Wiring Harness - Control (MHS / MQC)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT	(1) 781 9	(1) II	(1) —	(1) Default Disable Solenoid Control	(1) 1	(1) 0.5	(1) VT	(1) 781 9	(1) IV	(1) —
(2) 2	(2) 0.5	(2) G N / OG	(2) 153 0	(2) II	(2) —	(2) Transmission Line Pressure Control Solenoid Valve Control	(2) 2	(2) 0.5	(2) G N / OG	(2) 153 0	(2) IV	(2) —
(3) 3	(3) 0.5	(3) GY / BN	(3) 422	(3) II	(3) —	(3) Torque Converter Clutch Solenoid Valve Control	(3) 3	(3) 0.5	(3) GY / BN	(3) 422	(3) IV	(3) —
(4) 4	(4) 0.5	(4) BN	(4) 638 7	(4) I	(4) —	(4) Transmission High Side Driver 1 Control	(4) 4	(4) 0.5	(4) BN	(4) 638 7	(4) III	(4) —
5	—	—	—	—	—	Not Occupied	5	—	—	—	—	—
(6) 6	(6) 0.5	(6) YE	(6) 631 7	(6) II	(6) —	(6) Electronic Transmission Range Select Out of Park Switch Signal	(6) 6	(6) 0.5	(6) YE	(6) 631 7	(6) IV	(6) —
(7) 7	(7) 0.5	(7) YE / GY	(7) 631 9	(7) II	(7) —	(7) Electronic Transmission Range Select Out of Park Switch 2 Signal	(7) 7	(7) 0.5	(7) YE / GY	(7) 631 9	(7) IV	(7) —
(8) 8	(8) 0.5	(8) G N	(8) 417 0	(8) II	(8) —	(8) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(8) 8	(8) 0.5	(8) G N	(8) 417 0	(8) IV	(8) —
(9) 9	(9) 0.5	(9) O G	(9) 215 9	(9) II	(9) —	(9) Park Inhibit Solenoid Assembly Control	(9) 9	(9) 0.5	(9) O G	(9) 215 9	(9) IV	(9) —
(10) 10	(10) 0.5	(10) B K / GY	(10) 37 06	(10) II	(10) —	(10) Electronic Transmission Range Select Switch Analog Signal 1	(10) 10	(10) 0.5	(10) B K / GY	(10) 37 06	(10) IV	(10) —
(11) 11	(11) 0.5	(11) B U	(11) 41 71	(11) II	(11) —	(11) Transmission Input Shaft Speed Sensor Circuit 9V Reference	(11) 11	(11) 0.5	(11) B U	(11) 41 71	(11) IV	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
(13) 13	(13) 0.5	(13) B U / BN	(13) 58 6	(13) II	(13) —	(13) Transmission Fluid Temperature Sensor Low Reference	(13) 13	(13) 0.5	(13) B U / BN	(13) 58 6	(13) IV	(13) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(14) 14	(14) 0.5	(14) B N / YE	(14) 58 5	(14) II	(14) —	(14) Transmis sion Fluid Temperature Sensor Signal	(14) 14	(14) 0.5	(14) B N / YE	(14) 58 5	(14) IV	(14) —
(15) 15	(15) 0.5	(15) B U / GN	(15) 64 04	(15) II	(15) —	(15) Clutch Solenoid Valve E Control	(15) 15	(15) 0.5	(15) B U / GN	(15) 64 04	(15) IV	(15) —
(16) 16	(16) 0.5	(16) G N / BN	(16) 64 03	(16) II	(16) —	(16) Clutch Solenoid Valve D Control	(16) 16	(16) 0.5	(16) G N / BN	(16) 64 03	(16) IV	(16) —
(17) 17	(17) 0.5	(17) G Y	(17) 64 02	(17) II	(17) —	(17) Clutch Solenoid Valve C Control	(17) 17	(17) 0.5	(17) G Y	(17) 64 02	(17) IV	(17) —
(18) 18	(18) 0.5	(18) WH	(18) 63 88	(18) I	(18) —	(18) Transmis sion High Side Driver 2 Control	(18) 18	(18) 0.5	(18) WH	(18) 63 88	(18) III	(18) —
19	—	—	—	—	—	Not Occupied	19	—	—	—	—	—
(20) 20	(20) 0.5	(20) B N / WH	(20) 45 09	(20) II	(20) —	(20) Transmis sion Clutch F Control	(20) 20	(20) 0.5	(20) B N / WH	(20) 45 09	(20) IV	(20) —
(21) 21	(21) 0.5	(21) Y E / VT	(21) 45 07	(21) II	(21) —	(21) Transmis sion Clutch H Control	(21) 21	(21) 0.5	(21) Y E / VT	(21) 45 07	(21) IV	(21) —
(22) 22	(22) 0.5	(22) B U / GY	(22) 45 08	(22) II	(22) —	(22) Transmis sion Clutch G Control	(22) 22	(22) 0.5	(22) B U / GY	(22) 45 08	(22) IV	(22) —

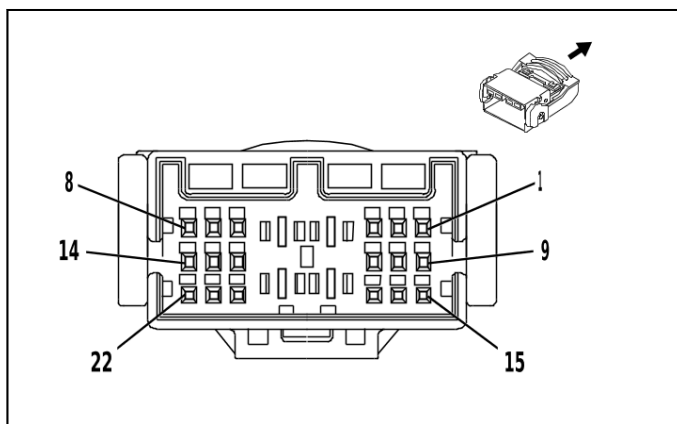
X176 Automatic Transmission Wiring Harness - Case to Automatic Transmission Wiring Harness - Control (MHT / MI2 / MQB)



3977748

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 1897543-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 22-Way F 0.64 Micro-Quadlock, 2.8 Micro-Power Series(NA)



3977770

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 1897540-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 22-Way M 0.64 Micro-Quadlock, 2.8 Micro-Power Series(NA)

Terminal Part Information

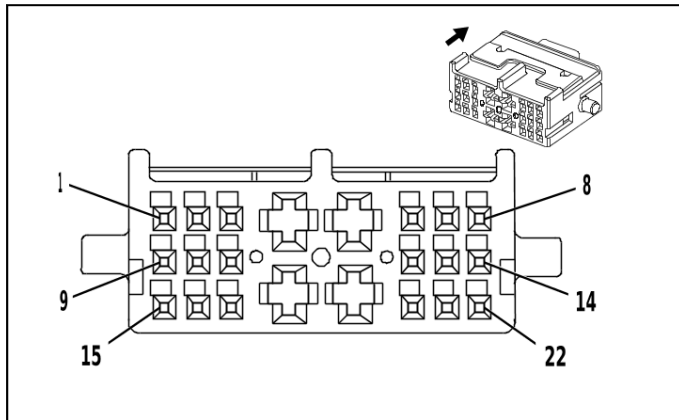
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required
II	Not required	J-35616-64B (L-BU)	No Tool Required
III	Not required	J-35616-65B (L-BU)	No Tool Required

X176 Automatic Transmission Wiring Harness - Case to Automatic Transmission Wiring Harness - Control (MHT / MI2 / MQB)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT	(1) 781 ₉	(1) II	(1) —	(1) Default Disable Solenoid Control	(1) 1	(1) 0.5	(1) VT	(1) 781 ₉	(1) III	(1) —
(2) 2	(2) 0.5	(2) G _N / OG	(2) 153 ₀	(2) II	(2) —	(2) Transmission Line Pressure Control Solenoid Valve Control	(2) 2	(2) 0.5	(2) G _N / OG	(2) 153 ₀	(2) III	(2) —
(3) 3	(3) 0.5	(3) GY / BN	(3) 422	(3) II	(3) —	(3) Torque Converter Clutch Solenoid Valve Control	(3) 3	(3) 0.5	(3) GY / BN	(3) 422	(3) III	(3) —
(4) 4	(4) 0.5	(4) BN	(4) 638 ₇	(4) I	(4) —	(4) Transmission High Side Driver 1 Control	(4) 4	(4) 0.5	(4) BN	(4) 638 ₇	(4) III	(4) —
5 - 12	—	—	—	—	—	Not Occupied	5 - 12	—	—	—	—	—
(13) 13	(13) 0.5	(13) BU / BN	(13) 58 ₆	(13) II	(13) —	(13) Transmission Fluid Temperature Sensor Low Reference	(13) 13	(13) 0.5	(13) BU / BN	(13) 58 ₆	(13) III	(13) —
(14) 14	(14) 0.5	(14) BN / YE	(14) 58 ₅	(14) II	(14) —	(14) Transmission Fluid Temperature Sensor Signal	(14) 14	(14) 0.5	(14) BN / YE	(14) 58 ₅	(14) III	(14) —
(15) 15	(15) 0.5	(15) BU / GN	(15) 64 ₀₄	(15) II	(15) —	(15) Clutch Solenoid Valve E Control	(15) 15	(15) 0.5	(15) BU / GN	(15) 64 ₀₄	(15) III	(15) —
(16) 16	(16) 0.5	(16) GN / BN	(16) 64 ₀₃	(16) II	(16) —	(16) Clutch Solenoid Valve D Control	(16) 16	(16) 0.5	(16) GN / BN	(16) 64 ₀₃	(16) III	(16) —
(17) 17	(17) 0.5	(17) G _Y	(17) 64 ₀₂	(17) II	(17) —	(17) Clutch Solenoid Valve C Control	(17) 17	(17) 0.5	(17) G _Y	(17) 64 ₀₂	(17) III	(17) —
(18) 18	(18) 0.5	(18) WH	(18) 63 ₈₈	(18) I	(18) —	(18) Transmission High Side Driver 2 Control	(18) 18	(18) 0.5	(18) WH	(18) 63 ₈₈	(18) III	(18) —
19	—	—	—	—	—	Not Occupied	19	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(20) 20	(20) 0.5	(20) B N / WH	(20) 45 09	(20) II	(20) —	(20) Transmis sion Clutch F Control	(20) 20	(20) 0.5	(20) B N / WH	(20) 45 09	(20) III	(20) —
(21) 21	(21) 0.5	(21) Y E / VT	(21) 45 07	(21) II	(21) —	(21) Transmis sion Clutch H Control	(21) 21	(21) 0.5	(21) Y E / VT	(21) 45 07	(21) III	(21) —
(22) 22	(22) 0.5	(22) B U / GY	(22) 45 08	(22) II	(22) —	(22) Transmis sion Clutch G Control	(22) 22	(22) 0.5	(22) B U / GY	(22) 45 08	(22) III	(22) —

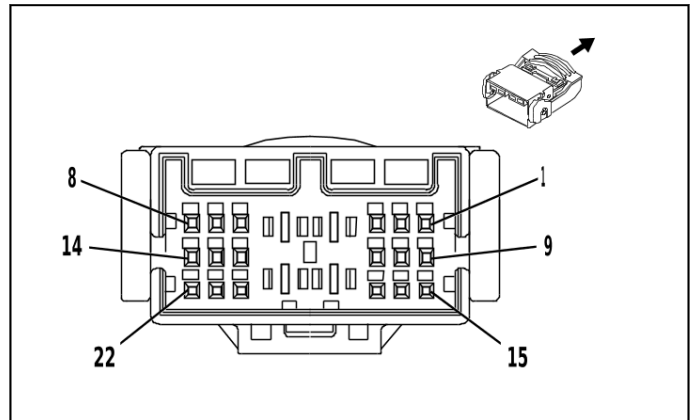
X176 Automatic Transmission Wiring Harness - Case to Automatic Transmission Wiring Harness - Control (MFC)



3977748

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 1897543-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 22-Way F 0.64 Micro-Quadlock, 2.8 Micro-Power Series(NA)



3977770

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 1897540-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 22-Way M 0.64 Micro-Quadlock, 2.8 Micro-Power Series(NA)

Terminal Part Information

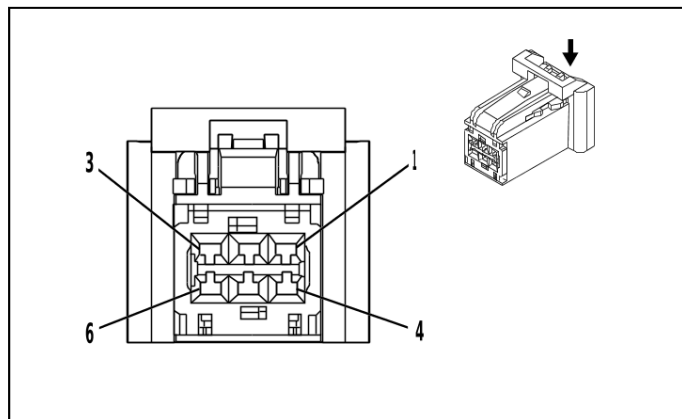
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required
II	Not required	J-35616-64B (L-BU)	No Tool Required
III	Not required	J-35616-5 (PU)	No Tool Required
IV	Not required	J-35616-65B (L-BU)	No Tool Required

X176 Automatic Transmission Wiring Harness - Case to Automatic Transmission Wiring Harness - Control (MFC)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) G N / WH	(1) 638 0	(1) II	(1) —	(1) Torque Converter Clutch Enable Solenoid Valve A Control	(1) 1	(1) 0.5	(1) G N / WH	(1) 638 0	(1) IV	(1) —
(2) 2	(2) 0.5	(2) BU / WH	(2) 333 8	(2) II	(2) —	(2) Transmission Internal Mode Switch Mode Control X	(2) 2	(2) 0.5	(2) BU / WH	(2) 333 8	(2) IV	(2) —
3	—	—	—	—	—	Not Occupied	3	—	—	—	—	—
(4) 4	(4) 2.5	(4) G N / GY	(4) 638 7	(4) I	(4) —	(4) Transmission High Side Driver 1 Control	(4) 4	(4) 2.5	(4) G N / GY	(4) 638 7	(4) III	(4) —
(5) 5	(5) 0.5	(5) YE / RD	(5) 480	(5) I	(5) —	(5) Engine Control Vehicle Sensors 5 Volt Reference 1	(5) 5	(5) 0.5	(5) YE / RD	(5) 480	(5) III	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 0.5	(7) W H / BU	(7) 450 7	(7) II	(7) —	(7) Transmission Clutch H Control	(7) 7	(7) 0.5	(7) W H / BU	(7) 450 7	(7) IV	(7) —
(8) 8	(8) 0.5	(8) GY / GN	(8) 153 0	(8) II	(8) —	(8) Transmission Line Pressure Control Solenoid Valve Control	(8) 8	(8) 0.5	(8) GY / GN	(8) 153 0	(8) IV	(8) —
(9) 9	(9) 0.5	(9) W H	(9) 450 8	(9) II	(9) —	(9) Transmission Clutch G Control	(9) 9	(9) 0.5	(9) W H	(9) 450 8	(9) IV	(9) —
(10) 10	(10) 0.5	(10) Y E / BN	(10) 62 10	(10) II	(10) —	(10) Torque Converter Clutch Enable Solenoid Valve B Control	(10) 10	(10) 0.5	(10) Y E / BN	(10) 62 10	(10) IV	(10) —
(11) 11	(11) 0.5	(11) W H / BK	(11) 33 37	(11) II	(11) —	(11) Transmission Internal Mode Switch Mode Control Y	(11) 11	(11) 0.5	(11) W H / BK	(11) 33 37	(11) IV	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
(13) 13	(13) 0.5	(13) G Y	(13) 64 02	(13) II	(13) —	(13) Clutch Solenoid Valve C Control	(13) 13	(13) 0.5	(13) G Y	(13) 64 02	(13) IV	(13) —
(14) 14	(14) 0.5	(14) Y E / BN	(14) 42 2	(14) II	(14) —	(14) Torque Converter Clutch Solenoid Valve Control	(14) 14	(14) 0.5	(14) Y E / BN	(14) 42 2	(14) IV	(14) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(15) 15	(15) 0.5	(15) B N / WH	(15) 58 5	(15) II	(15) —	(15) Transmis sion Fluid Temperature Sensor Signal	(15) 15	(15) 0.5	(15) B K / BN	(15) 58 5	(15) IV	(15) —
(16) 16	(16) 0.5	(16) B K / BN	(16) 58 6	(16) II	(16) —	(16) Transmis sion Fluid Temperature Sensor Low Reference	(16) 16	(16) 0.5	(16) B K / BN	(16) 58 6	(16) IV	(16) —
17	—	—	—	—	—	Not Occupied	17	—	—	—	—	—
(18) 18	(18) 2.5	(18) G Y / BN	(18) 63 88	(18) I	(18) —	(18) Transmis sion High Side Driver 2 Control	(18) 18	(18) 2.5	(18) G Y / BN	(18) 63 88	(18) III	(18) —
19	—	—	—	—	—	Not Occupied	19	—	—	—	—	—
(20) 20	(20) 0.5	(20) B K / GY	(20) 62 6	(20) II	(20) —	(20) Engine Control Vehicle Sensors Low Reference 1	(20) 20	(20) 0.5	(20) B K / GY	(20) 62 6	(20) IV	(20) —
(21) 21	(21) 0.5	(21) B N	(21) 64 00	(21) II	(21) —	(21) Clutch Solenoid Valve A Control	(21) 21	(21) 0.5	(21) B N	(21) 64 00	(21) IV	(21) —
(22) 22	(22) 0.5	(22) B U	(22) 64 01	(22) II	(22) —	(22) Clutch Solenoid Valve B Control	(22) 22	(22) 0.5	(22) B U	(22) 64 01	(22) IV	(22) —

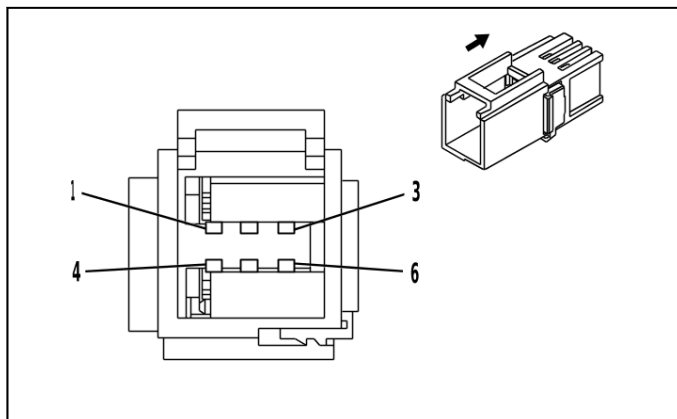
X177 Automatic Transmission Wiring Harness - Case to Automatic Transmission Output Speed Sensor Wiring Harness (MFC)



3977938

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Case
- OEM Connector: 13582377
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.2 OCS Series(NA)



3977959

Connector Part Information

- Harness Type: Automatic Transmission Output Speed Sensor Wiring Harness
- OEM Connector: 13955963
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way M 0.64 II Series(GY)

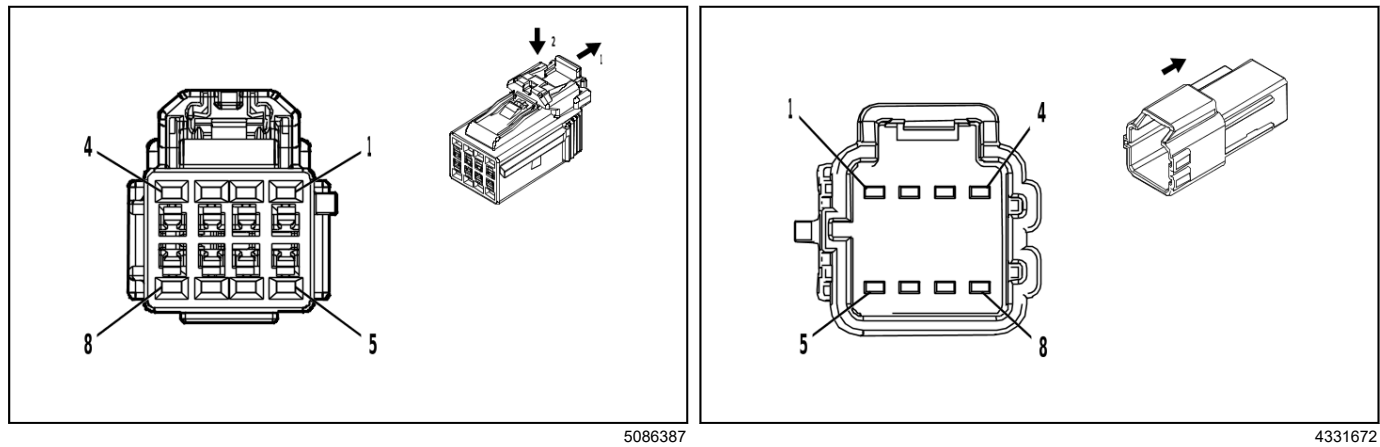
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-65B (L-BU)	No Tool Required

X177 Automatic Transmission Wiring Harness - Case to Automatic Transmission Output Speed Sensor Wiring Harness (MFC)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / BU	(1) 6358	(1) I	(1) —	(1) Output Speed Signal	(1) 1	(1) 0.5	(1) YE	(1) 6358	(1) II	(1) —
(2) 2	(2) 0.5	(2) YE / GN	(2) 4170	(2) I	(2) —	(2) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(2) 2	(2) 0.5	(2) RD	(2) 4170	(2) II	(2) —
(3) 3	(3) 0.5	(3) YE / GN	(3) 4170	(3) I	(3) —	(3) Transmission Output Shaft Speed Sensor Circuit 9V Reference	(3) 3	(3) 0.5	(3) WH	(3) 4170	(3) II	(3) —
(4) 4	(4) 0.5	(4) WH / RD	(4) 4171	(4) I	(4) —	(4) Transmission Input Shaft Speed Sensor Circuit 9V Reference	(4) 4	(4) 0.5	(4) WH	(4) 4171	(4) II	(4) —
(5) 5	(5) 0.5	(5) GN / YE	(5) 6253	(5) I	(5) —	(5) Transmission Input Speed Sensor Ground	(5) 5	(5) 0.5	(5) GN	(5) 6253	(5) II	(5) —
(6) 6	(6) 0.5	(6) GN / VT	(6) 4510	(6) I	(6) —	(6) Transmission Intermediate Speed Signal	(6) 6	(6) 0.5	(6) BK	(6) 4510	(6) II	(6) —

X177 Automatic Transmission Wiring Harness - Control Extension to Automatic Transmission Wiring Harness - Control (MHS / MQC)



- Connector Part Information**

 - Harness Type: Automatic Transmission Wiring Harness - Control Extension
 - OEM Connector: 6098-8632
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 8-Way F 1.2 Series
- Connector Part Information**

 - Harness Type: Automatic Transmission Wiring Harness - Control
 - OEM Connector: 6098-8630
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 8-Way M 1.2 Series

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-13 (BU)	No Tool Required

X177 Automatic Transmission Wiring Harness - Control Extension to Automatic Transmission Wiring Harness - Control (MHS / MQC)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 6387	(1) I	(1) —	(1) Transmission High Side Driver 1 Control	(1) 1	(1) 0.5	(1) BN	(1) 6387	(1) II	(1) —
(2) 2	(2) 0.5	(2) GN / OG	(2) 1530	(2) I	(2) —	(2) Transmission Line Pressure Control Solenoid Valve Control	(2) 2	(2) 0.5	(2) GN / OG	(2) 1530	(2) II	(2) —
(3) 3	(3) 0.5	(3) GY / BN	(3) 422	(3) I	(3) —	(3) Torque Converter Clutch Solenoid Valve Control	(3) 3	(3) 0.5	(3) GY / BN	(3) 422	(3) II	(3) —
(4) 4	(4) 0.5	(4) VT	(4) 7819	(4) I	(4) —	(4) Default Disable Solenoid Control	(4) 4	(4) 0.5	(4) VT	(4) 7819	(4) II	(4) —
(5) 5	(5) 0.5	(5) BK / GY	(5) 3706	(5) I	(5) —	(5) Electronic Transmission Range Select Switch Analog Signal 1	(5) 5	(5) 0.5	(5) BK / GY	(5) 3706	(5) II	(5) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(6) 6	(6) 0. 5	(6) BU	(6) 417 1	(6) I	(6) —	(6) Transmiss ion Input Shaft Speed Sensor Circuit 9V Reference	(6) 6	(6) 0. 5	(6) BU	(6) 417 1	(6) II	(6) —
(7) 7	(7) 0. 5	(7) W H	(7) 638 8	(7) I	(7) —	(7) Transmiss ion High Side Driver 2 Control	(7) 7	(7) 0. 5	(7) W H	(7) 638 8	(7) II	(7) —
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—

X177 Automatic Transmission Wiring Harness - Control Extension to Automatic Transmission Wiring Harness - Control (MHT / MI2 / MQB)

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control Extension
- OEM Connector: 6098-8427
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F SUMITOMO

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness - Control
- OEM Connector: 6098-8429
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way M SUMITOMO SLV WIR CONN FEM

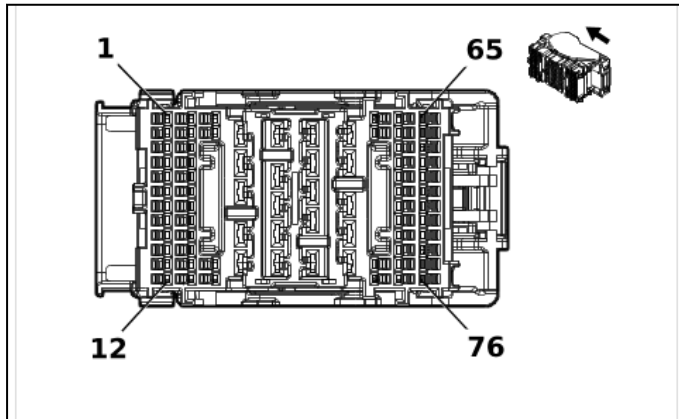
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-13 (BU)	No Tool Required

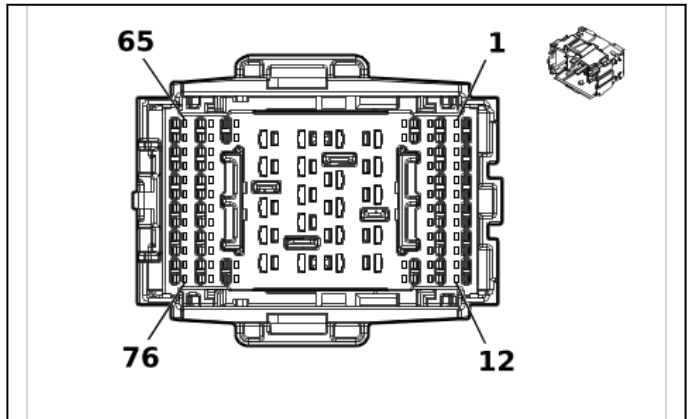
X177 Automatic Transmission Wiring Harness - Control Extension to Automatic Transmission Wiring Harness - Control (MHT / MI2 / MQB)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0. 5	(1) BN	(1) 638 7	(1) I	(1) —	(1) Transmiss ion High Side Driver 1 Control	(1) 1	(1) 0. 5	(1) BN	(1) 638 7	(1) II	(1) —
(2) 2	(2) 0. 5	(2) G N/ OG	(2) 153 0	(2) I	(2) —	(2) Transmiss ion Line Pressure Control Solenoid Valve Control	(2) 2	(2) 0. 5	(2) G N/ OG	(2) 153 0	(2) II	(2) —
(3) 3	(3) 0. 5	(3) GY /BN	(3) 422	(3) I	(3) —	(3) Torque Converter Clutch Solenoid Valve Control	(3) 3	(3) 0. 5	(3) GY /BN	(3) 422	(3) II	(3) —
(4) 4	(4) 0. 5	(4) VT	(4) 781 9	(4) I	(4) —	(4) Default Disable Solenoid Control	(4) 4	(4) 0. 5	(4) VT	(4) 781 9	(4) II	(4) —
(5) 5	(5) 0. 5	(5) W H	(5) 638 8	(5) I	(5) —	(5) Transmiss ion High Side Driver 2 Control	(5) 5	(5) 0. 5	(5) W H	(5) 638 8	(5) II	(5) —

X210 Instrument Panel Wiring Harness to Body Wiring Harness



6171454



6171465

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6099-0188
- Service Connector: 85026856
- Description: 76-Way F 1.2 Sumitomo, 2.8 YESC Series(BK)

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 6099-0184
- Service Connector: 13549030
- Description: 76-Way M 1.2 Sumitomo, 2.8 YESC Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84962854	J-35616-12 (BU)	J-38125-215A
II	84962855	J-35616-4A (PU)	J-38125-11A
III	84616651	J-35616-13 (BU)	J-38125-215A
IV	84888592	J-35616-5 (PU)	J-38125-11A

X210 Instrument Panel Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / GN	(1) 154 ₀	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / GN	(1) 154 ₀	(1) III	(1) —
(2) 2	(2) 0.5	(2) RD / YE	(2) 654 ₀	(2) I	(2) —	(2) Battery Positive Voltage	(2) 2	(2) 0.5	(2) RD / YE	(2) 654 ₀	(2) III	(2) —
(3) 3	(3) 0.5	(3) BN / OG	(3) 302 ₀	(3) I	(3) —	(3) Steering Wheel Air Bag Stage 1 Low Control	(3) 3	(3) 0.35	(3) BN / OG	(3) 302 ₀	(3) III	(3) —
(4) 4	(4) 0.5	(4) OG / VT	(4) 302 ₁	(4) I	(4) —	(4) Steering Wheel Air Bag Stage 1 High Control	(4) 4	(4) 0.35	(4) OG / VT	(4) 302 ₁	(4) III	(4) —
(5) 5	(5) 0.5	(5) WH / OG	(5) 302 ₂	(5) I	(5) —	(5) Steering Wheel Air Bag Stage 2 Low Control	(5) 5	(5) 0.35	(5) WH / OG	(5) 302 ₂	(5) III	(5) —
(6) 6	(6) 0.5	(6) OG / GN	(6) 302 ₃	(6) I	(6) —	(6) Steering Wheel Air Bag Stage 2 High Control	(6) 6	(6) 0.35	(6) OG / GN	(6) 302 ₃	(6) III	(6) —

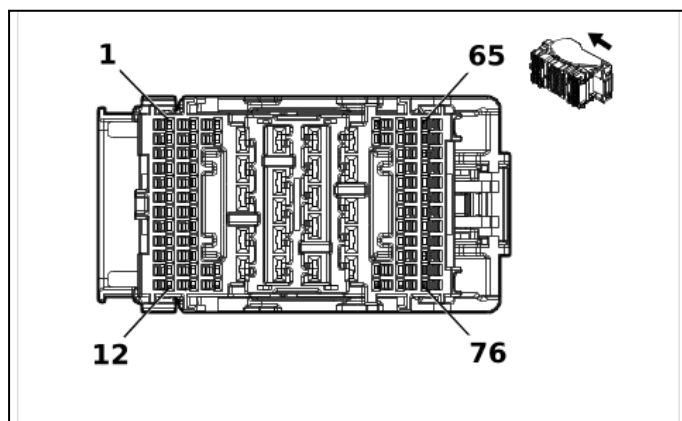
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(7) 7	(7) 0.35	(7) BN / WH	(7) 28	(7) I	(7) —	(7) Horn Relay Control	(7) 7	(7) 0.35	(7) BN / WH	(7) 28	(7) III	(7) —
(8) 8	(8) —	(8) —	(8) —	(8) —	(8) —	(8) —	(8) 8	(8) 0.35	(8) YE	(8) 900	(8) III	(8) —
(9) 9	(9) —	(9) —	(9) —	(9) —	(9) —	(9) —	(9) 9	(9) 0.35	(9) YE	(9) 901	(9) III	(9) —
(10) 10	(10) —	(10) —	(10) —	(10) —	(10) —	(10) —	(10) 10	(10) 0.35	(10) Y E	(10) 902	(10) III	(10) —
11 - 12	—	—	—	—	—	Not Occupied	11 - 12	—	—	—	—	—
(13) 13	(13) 0.35	(13) B N / BK	(13) 3552	(13) I	(13) —	(13) Interior Passive Entry Antenna 1 High Signal	(13) 13	(13) 0.35	(13) B N / BK	(13) 3552	(13) III	(13) —
(14) 14	(14) 0.35	(14) WH	(14) 3553	(14) I	(14) —	(14) Interior Passive Entry Antenna 1 Low Signal	(14) 14	(14) 0.35	(14) WH	(14) 3553	(14) III	(14) —
(15) 15	(15) 0.35	(15) WH	(15) 4100	(15) I	(15) —	(15) AUTOSAR CAN Bus [-] 4 Serial Data	(15) 15	(15) 0.5	(15) WH	(15) 4100	(15) III	(15) —
(16) 16	(16) 0.35	(16) B U / VT	(16) 4101	(16) I	(16) —	(16) AUTOSAR CAN Bus [+] 4 Serial Data	(16) 16	(16) 0.5	(16) B U / VT	(16) 4101	(16) III	(16) —
(17) 17	(17) 0.35	(17) WH	(17) 4976	(17) I	(17) —	(17) AUTOSAR CAN Bus [-] 3 Serial Data	(17) 17	(17) 0.5	(17) WH	(17) 4976	(17) III	(17) —
(18) 18	(18) 0.35	(18) B U / BK	(18) 4977	(18) I	(18) —	(18) AUTOSAR CAN Bus [+] 3 Serial Data	(18) 18	(18) 0.5	(18) B U / BK	(18) 4977	(18) III	(18) —
19 - 20	—	—	—	—	—	Not Occupied	19 - 20	—	—	—	—	—
(21) 21	(21) 0.35	(21) B U / YE	(21) 4984	(21) I	(21) —	(21) AUTOSAR CAN Bus [-] 5 Serial Data	(21) 21	(21) 0.5	(21) B U / YE	(21) 4984	(21) III	(21) —
(22) 22	(22) 0.35	(22) B U / WH	(22) 4985	(22) I	(22) —	(22) AUTOSAR CAN Bus [+] 5 Serial Data	(22) 22	(22) 0.5	(22) B U / WH	(22) 4985	(22) III	(22) —
(23) 23	(23) 0.35	(23) WH	(23) 4986	(23) I	(23) —	(23) AUTOSAR CAN Bus [-] 1 Serial Data	(23) 23	(23) 0.5	(23) WH	(23) 4986	(23) III	(23) —
(24) 24	(24) 0.35	(24) B U	(24) 4987	(24) I	(24) —	(24) AUTOSAR CAN Bus [+] 1 Serial Data	(24) 24	(24) 0.5	(24) B U	(24) 4987	(24) III	(24) —
25 - 26	—	—	—	—	—	Not Occupied	25 - 26	—	—	—	—	—
(27) 27	(27) 0.35	(27) B N / BK	(27) 4996	(27) I	(27) —	(27) Immobilizer Antenna Signal [+]	(27) 27	(27) 0.35	(27) B N / BK	(27) 4996	(27) III	(27) —
(28) 28	(28) 0.35	(28) WH / GY	(28) 4997	(28) I	(28) —	(28) Immobilizer Antenna Low Signal	(28) 28	(28) 0.35	(28) WH / GY	(28) 4997	(28) III	(28) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(29) 29	(29) 2.5	(29) R D / BN	(29) 41 42	(29) II	(29) —	(29) Primary Fused Battery Positive Voltage	(29) 29	(29) 2.5	(29) R D / BN	(29) 41 42	(29) IV	(29) —
(30) 30	(30) 0.5	(30) G Y	(30) 17 15	(30) II	(30) —	(30) Windshield Wiper Switch High Signal	(30) 30	(30) 0.35	(30) G Y	(30) 17 15	(30) IV	(30) —
(31) 31	(31) 0.5	(31) G N / YE	(31) 27 31	(31) II	(31) —	(31) Brake System Control Module LIN Bus 1	(31) 31	(31) 0.5	(31) G N / YE	(31) 27 31	(31) IV	(31) —
(32) 32	(32) 0.35 (32) 0.5	(32) B U / BN (32) B U	(32) 49 87 (32) 49 87	(32) II (32) II	(32) UD7 (32) - UD7	(32) AUTOSAR CAN Bus [+] 1 Serial Data (32) AUTOSAR CAN Bus [+] 1 Serial Data	(32) 32	(32) 0.5	(32) B U	(32) 49 87	(32) IV	(32) —
(33) 33	(33) 0.35 (33) 0.5	(33) WH / RD (33) WH	(33) 49 86 (33) 49 86	(33) II (33) II	(33) UD7 (33) - UD7	(33) AUTOSAR CAN Bus [-] 1 Serial Data (33) AUTOSAR CAN Bus [-] 1 Serial Data	(33) 33	(33) 0.5	(33) WH	(33) 49 86	(33) IV	(33) —
34	—	—	—	—	—	Not Occupied	34	—	—	—	—	—
(35) 35	(35) 0.75	(35) G N / BK	(35) 11 6	(35) II	(35) —	(35) Left Rear Speaker [-] Control	(35) 35	(35) 0.75	(35) G N / BK	(35) 11 6	(35) IV	(35) —
(36) 36	(36) 0.75	(36) G N	(36) 19 9	(36) II	(36) —	(36) Left Rear Speaker [+] Control	(36) 36	(36) 0.75	(36) G N	(36) 19 9	(36) IV	(36) —
(37) 37	(37) 0.75	(37) B N / BU	(37) 11 8	(37) II	(37) —	(37) Left Front Speaker [-] Control 1	(37) 37	(37) 0.75	(37) B N / BU	(37) 11 8	(37) IV	(37) —
(38) 38	(38) 0.75	(38) B U	(38) 20 1	(38) II	(38) —	(38) Left Front Speaker 1 [+] Control	(38) 38	(38) 0.75	(38) B U	(38) 20 1	(38) IV	(38) —
39	—	—	—	—	—	Not Occupied	39	—	—	—	—	—
(40) 40	(40) 0.35	(40) B U / WH	(40) 31 19	(40) II	(40) —	(40) Roof Rail Air Bag Disable Switch Signal	(40) 40	(40) 0.35	(40) B U / WH	(40) 31 19	(40) IV	(40) —
(41) 41	(41) 0.35	(41) B N / WH	(41) 38 95	(41) II	(41) —	(41) Roof Rail Air Bag Disable Switch Low Reference	(41) 41	(41) 0.35	(41) B N / WH	(41) 38 95	(41) IV	(41) —
42	—	—	—	—	—	Not Occupied	42	—	—	—	—	—
(43) 43	(43) 0.5	(43) G N / GY	(43) 46 27	(43) II	(43) —	(43) Image Processing Module LIN Bus 1	(43) 43	(43) 0.5	(43) G N / GY	(43) 46 27	(43) IV	(43) —
44	—	—	—	—	—	Not Occupied	44	—	—	—	—	—

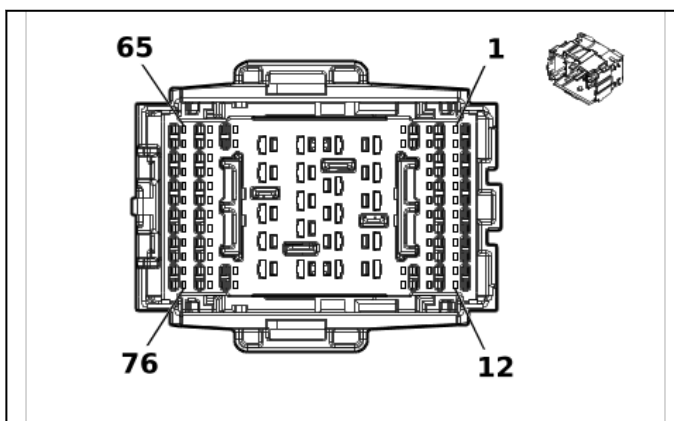
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(45) 45	(45) 0.35	(45) G N / VT	(45) 47 86	(45) II	(45) —	(45) Dome/ Reading Lamp Enable Signal	(45) 45	(45) 0.5	(45) G N / VT	(45) 47 86	(45) IV	(45) —
(46) 46	(46) 0.35	(46) G N / BN	(46) 50 7	(46) II	(46) —	(46) Wait To Start Indicator Control	(46) 46	(46) 0.35	(46) G N / BN	(46) 50 7	(46) IV	(46) —
47	—	—	—	—	—	Not Occupied	47	—	—	—	—	—
(48) 48	(48) 0.5	(48) Y E / VT	(48) 61 91	(48) II	(48) —	(48) Power Rear Window Switch Open Signal	(48) 48	(48) 0.5	(48) Y E / VT	(48) 61 91	(48) IV	(48) —
(49) 49	(49) 0.5	(49) WH	(49) 61 92	(49) I	(49) —	(49) Sliding Rear Window Switch Close Signal	(49) 49	(49) 0.5	(49) WH	(49) 61 92	(49) III	(49) —
(50) 50	(50) 0.5	(50) Y E	(50) 68 17	(50) I	(50) —	(50) LED Backlight Dimming Control 1	(50) 50	(50) 0.5	(50) Y E	(50) 68 17	(50) III	(50) —
(51) 51	(51) 0.35	(51) WH / GY	(51) 72 97	(51) I	(51) —	(51) Minor Endgate High Relay Control	(51) 51	(51) 0.75	(51) WH / GY	(51) 72 97	(51) III	(51) —
(52) 52	(52) 0.5	(52) G N / WH	(52) 75 30	(52) I	(52) —	(52) Driver Seat Adjuster Memory Module LIN Bus 1	(52) 52	(52) 0.5	(52) G N / WH	(52) 75 30	(52) III	(52) —
(53) 53	(53) 0.5	(53) R D / BK	(53) 71 40	(53) I	(53) —	(53) Battery Positive Volt- age	(53) 53	(53) 0.5	(53) R D / VT	(53) 71 40	(53) III	(53) —
(54) 54	(54) 0.35	(54) WH / GN	(54) 77 28	(54) I	(54) —	(54) Major Endgate High Relay Control	(54) 54	(54) 0.75	(54) WH / GN	(54) 77 28	(54) III	(54) —
(55) 55	(55) 0.35	(55) B U / VT	(55) 77 29	(55) I	(55) —	(55) Major Endgate Low Relay Control	(55) 55	(55) 0.75	(55) B U / VT	(55) 77 29	(55) III	(55) —
(56) 56	(56) 0.5	(56) V T	(56) 80 1	(56) I	(56) —	(56) Retained Accessory Power Control	(56) 56	(56) 0.35	(56) V T	(56) 80 1	(56) III	(56) —
(57) 57	(57) 0.5	(57) B N / YE	(57) 82 0	(57) I	(57) —	(57) Center High Mounted Stop Lamp Supply Volt- age (57) Center High Mounted Stop Lamp Supply Volt- age	(57) 57	(57) 0.35 (57) 0.5	(57) B N / YE (57) B N / YE	(57) 82 0 (57) 82 0	(57) III (57) III	(57) - UET (57) UET
(58) 58	(58) 0.35	(58) G N / BU	(58) 27 33	(58) I	(58) —	(58) Brake System Control Module LIN Bus 2	(58) 58	(58) 0.5	(58) G N / BU	(58) 27 33	(58) III	(58) —
(59) 59	(59) 0.5	(59) R D / VT	(59) 26 40	(59) I	(59) —	(59) Battery Positive Volt- age	(59) 59	(59) 0.5	(59) R D / VT	(59) 26 40	(59) III	(59) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(60) 60	(60) 0.35	(60) B U / OG	(60) 49 84	(60) I	(60) —	(60) AUTOSA R CAN Bus [-] 5 Serial Data	(60) 60	(60) 0.5	(60) B U / YE	(60) 49 84	(60) III	(60) —
(61) 61	(61) 0.35	(61) B U / WH	(61) 49 85	(61) I	(61) —	(61) AUTOSA R CAN Bus [+] 5 Serial Data	(61) 61	(61) 0.5	(61) B U / WH	(61) 49 85	(61) III	(61) —
62	—	—	—	—	—	Not Occupied	62	—	—	—	—	—
(63) 63	(63) 0.5	(63) R D / BK	(63) 77 40	(63) I	(63) —	(63) Battery Positive Volt- age	(63) 63	(63) 0.5	(63) R D / GN	(63) 77 40	(63) III	(63) —
64	—	—	—	—	—	Not Occupied	64	—	—	—	—	—
(65) 65	(65) 0.35	(65) G N / GY	(65) 81 7	(65) I	(65) —	(65) Vehicle Speed Signal	(65) 65	(65) 0.35	(65) G N / GY	(65) 81 7	(65) III	(65) —
(66) 66	(66) 0.35	(66) WH / GY	(66) 29 35	(66) I	(66) —	(66) Task Lamp Switch Signal	(66) 66	(66) 0.35	(66) WH / GY	(66) 29 35	(66) III	(66) —
(67) 67	(67) 0.5	(67) R D / YE	(67) 23 40	(67) I	(67) —	(67) Battery Positive Volt- age	(67) 67	(67) 0.5	(67) R D / YE	(67) 23 40	(67) III	(67) —
(68) 68	(68) 0.5	(68) WH / VT	(68) 14 30	(68) I	(68) —	(68) Exterior Courtesy Lamp Control	(68) 68	(68) 0.5	(68) WH / VT	(68) 14 30	(68) III	(68) —
(69) 69	(69) 0.5	(69) G N / WH	(69) 28 54	(69) I	(69) —	(69) Body Control Module LIN Bus 8	(69) 69	(69) 0.35	(69) G N / WH	(69) 28 54	(69) III	(69) —
(70) 70	(70) 0.5	(70) B U / BN	(70) 68 07	(70) I	(70) —	(70) DC/AC Inverter Control	(70) 70	(70) 0.5	(70) B U / BN	(70) 68 07	(70) III	(70) —
(71) 71	(71) 0.5	(71) V T / RD	(71) 40 49	(71) I	(71) —	(71) AC Power Outlet Sensor High Reference	(71) 71	(71) 0.5	(71) V T / RD	(71) 40 49	(71) III	(71) —
72 - 73	—	—	—	—	—	Not Occupied	72 - 73	—	—	—	—	—
(74) 74	(74) 0.35	(74) B ARE	(74) 10 116	(74) I	(74) —	(74) AC Outlet Low Reference	(74) 74	(74) 0.35	(74) B ARE	(74) 10 116	(74) III	(74) —
(75) 75	(75) 0.75	(75) B K	(75) 10 117	(75) I	(75) —	(75) AC Outlet Phase A Control	(75) 75	(75) 0.75	(75) B K	(75) 10 117	(75) III	(75) —
(76) 76	(76) 0.75	(76) R D	(76) 10 118	(76) I	(76) —	(76) AC Outlet Phase B Control	(76) 76	(76) 0.75	(76) R D	(76) 10 118	(76) III	(76) —

X211 Instrument Panel Wiring Harness to Body Wiring Harness



6171454



6171465

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6099-0188
- Service Connector: 85026856
- Description: 76-Way F 1.2 Sumitomo, 2.8 YESC Series(BK)

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 6099-0184
- Service Connector: 13549030
- Description: 76-Way M 1.2 Sumitomo, 2.8 YESC Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84962854	J-35616-12 (BU)	J-38125-215A
II	84962855	J-35616-4A (PU)	J-38125-11A
III	84616651	J-35616-13 (BU)	J-38125-215A
IV	84888592	J-35616-5 (PU)	J-38125-11A
V	Not required	No Tool Required	No Tool Required

X211 Instrument Panel Wiring Harness to Body Wiring Harness

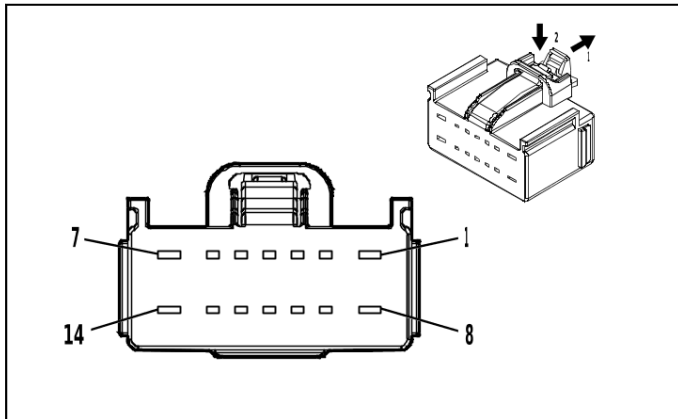
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BK	(1) 339	(1) I	(1) —	(1) Run/ Crank Ignition 1 Voltage	(1) 1	(1) 0.5	(1) VT / BK	(1) 339	(1) III	(1) —
(2) 2	(2) 0.35	(2) BU / VT	(2) 807	(2) I	(2) —	(2) Ignition Off/Accessory Ignition Voltage	(2) 2	(2) 0.35	(2) BU / VT	(2) 807	(2) III	(2) —
3	—	—	—	—	—	Not Occupied	3	—	—	—	—	—
(4) 4	(4) 0.5	(4) G N / WH	(4) 24	(4) I	(4) —	(4) Backup Lamp Control	(4) 4	(4) 0.5	(4) G N / WH	(4) 24	(4) III	(4) —
(5) 5	(5) 0.35	(5) O G / WH	(5) 302 ₄	(5) I	(5) —	(5) Passenger Instrument Panel Air Bag Stage 1 Low Control	(5) 5	(5) 0.35	(5) O G / WH	(5) 302 ₄	(5) III	(5) —
(6) 6	(6) 0.35	(6) YE / OG	(6) 302 ₅	(6) I	(6) —	(6) Passenger Instrument Panel Air Bag Stage 1 High Control	(6) 6	(6) 0.35	(6) YE / OG	(6) 302 ₅	(6) III	(6) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(7) 7	(7) 0.35	(7) O G / VT	(7) 3026	(7) I	(7) —	(7) Passenger Instrument Panel Air Bag Stage 2 Low Control	(7) 7	(7) 0.35	(7) O G / VT	(7) 3026	(7) III	(7) —
(8) 8	(8) 0.35	(8) GY / OG	(8) 3027	(8) I	(8) —	(8) Passenger Instrument Panel Air Bag Stage 2 High Control	(8) 8	(8) 0.35	(8) GY / OG	(8) 3027	(8) III	(8) —
9 - 15	—	—	—	—	—	Not Occupied	9 - 15	—	—	—	—	—
(16) 16	(16) 0.35	(16) G N / BN	(16) 3005	(16) I	(16) —	(16) Active Noise Cancellation Microphone 1 Signal	(16) 16	(16) 0.35	(16) G N / WH	(16) 3005	(16) III	(16) —
(17) 17	(17) 0.35	(17) G N / BK	(17) 3008	(17) I	(17) —	(17) Active Noise Cancellation Microphone 1 Feedback Signal	(17) 17	(17) 0.35	(17) G N / BK	(17) 3008	(17) III	(17) —
18 - 19	—	—	—	—	—	Not Occupied	18 - 19	—	—	—	—	—
(20) 20	(20) 0.35	(20) WH / YE	(20) 4104	(20) I	(20) —	(20) AUTOSAR CAN Bus [-] 8 Serial Data	(20) 20	(20) 0.5	(20) WH / GY	(20) 4104	(20) III	(20) —
(21) 21	(21) 0.35	(21) B U / GN	(21) 4105	(21) I	(21) —	(21) AUTOSAR CAN Bus [+] 8 Serial Data	(21) 21	(21) 0.5	(21) B U / GY	(21) 4105	(21) III	(21) —
(22) 22	(22) 0.5	(22) WH / GY	(22) 4104	(22) I	(22) —	(22) AUTOSAR CAN Bus [-] 8 Serial Data	(22) 22	(22) 0.5	(22) WH / GY	(22) 4104	(22) III	(22) —
(23) 23	(23) 0.5	(23) B U / GY	(23) 4105	(23) I	(23) —	(23) AUTOSAR CAN Bus [+] 8 Serial Data	(23) 23	(23) 0.5	(23) B U / GY	(23) 4105	(23) III	(23) —
24	—	—	—	—	—	Not Occupied	24	—	—	—	—	—
(25) 25	(25) 0.35	(25) B U / BK	(25) 4987	(25) I	(25) —	(25) AUTOSAR CAN Bus [+] 1 Serial Data	(25) 25	(25) 0.5	(25) B U	(25) 4987	(25) III	(25) —
(26) 26	(26) 0.35	(26) WH / YE	(26) 4986	(26) I	(26) —	(26) AUTOSAR CAN Bus [-] 1 Serial Data	(26) 26	(26) 0.5	(26) WH	(26) 4986	(26) III	(26) —
27 - 28	—	—	—	—	—	Not Occupied	27 - 28	—	—	—	—	—
(29) 29	(29) 1	(29) G N / YE	(29) 6840	(29) II	(29) —	(29) Auxiliary Device 2 Switched Voltage	(29) 29	(29) 1	(29) G N / YE	(29) 6840	(29) IV	(29) —
30 - 31	—	—	—	—	—	Not Occupied	30 - 31	—	—	—	—	—
(32) 32	(32) 0.5	(32) B U / BK	(32) 1053	(32) II	(32) —	(32) Center High Mounted Stop Lamp Control 3	(32) 32	(32) 0.5	(32) B U / BK	(32) 1053	(32) IV	(32) —

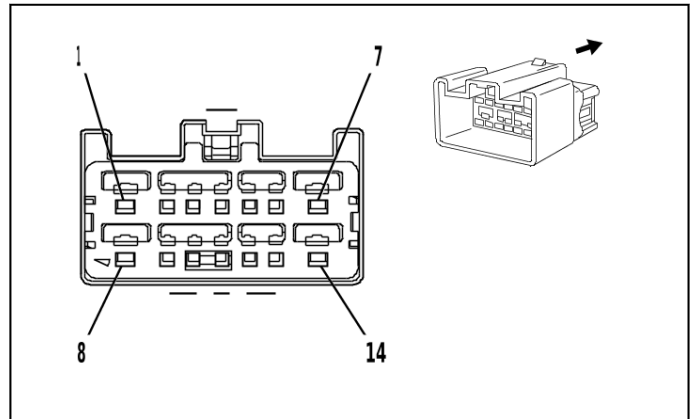
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(33) 33	(33) 0.75	(33) WH	(33) 46	(33) II	(33) —	(33) Right Rear Speaker [+] Control	(33) 33	(33) 0.75	(33) WH	(33) 46	(33) IV	(33) —
(34) 34	(34) 0.75	(34) B U / BK	(34) 11 5	(34) II	(34) —	(34) Right Rear Speaker [-] Control	(34) 34	(34) 0.75	(34) B U / BK	(34) 11 5	(34) IV	(34) —
(35) 35	(35) 0.75	(35) Y E / BK	(35) 11 7	(35) II	(35) —	(35) Right Front Speaker [-] Control 1	(35) 35	(35) 0.75	(35) Y E / BK	(35) 11 7	(35) IV	(35) —
(36) 36	(36) 0.75	(36) Y E	(36) 20 0	(36) II	(36) —	(36) Right Front Speaker 1 [+] Control	(36) 36	(36) 0.75	(36) Y E	(36) 20 0	(36) IV	(36) —
(37) 37	(37) 0.75	(37) Y E / BK	(37) 11 7	(37) II	(37) —	(37) Right Front Speaker [-] Control 1	(37) 37	(37) 0.75	(37) Y E / BK	(37) 11 7	(37) IV	(37) —
(38) 38	(38) 0.75	(38) Y E	(38) 20 0	(38) II	(38) —	(38) Right Front Speaker 1 [+] Control	(38) 38	(38) 0.75	(38) Y E	(38) 20 0	(38) IV	(38) —
(39) 39	(39) 0.75	(39) Y E / BK	(39) 11 7	(39) II	(39) —	(39) Right Front Speaker [-] Control 1	(39) 39	(39) 0.75	(39) Y E / BK	(39) 11 7	(39) IV	(39) —
(40) 40	(40) 0.75	(40) Y E	(40) 20 0	(40) II	(40) —	(40) Right Front Speaker 1 [+] Control	(40) 40	(40) 0.75	(40) Y E	(40) 20 0	(40) IV	(40) —
(41) 41	(41) 0.75	(41) WH / YE	(41) 18 53	(41) II	(41) —	(41) Right Front Midrange Speaker [+] Control	(41) 41	(41) 0.75	(41) WH / YE	(41) 18 53	(41) IV	(41) —
(42) 42	(42) 0.75	(42) B N / BK	(42) 19 53	(42) II	(42) —	(42) Right Front Midrange Speaker [-] Control	(42) 42	(42) 0.75	(42) B N / BK	(42) 19 53	(42) IV	(42) —
(43) 43	(43) 0.75	(43) Y E / WH	(43) 18 60	(43) II	(43) —	(43) Front Center Speaker [+] Control	(43) 43	(43) 0.75	(43) Y E / WH	(43) 18 60	(43) IV	(43) —
(44) 44	(44) 0.75	(44) B U / YE	(44) 19 60	(44) II	(44) —	(44) Front Center Speaker [-] Control	(44) 44	(44) 0.75	(44) B U / YE	(44) 19 60	(44) IV	(44) —
(45) 45	(45) 0.75	(45) B U / VT	(45) 18 57	(45) II	(45) —	(45) Left Front Midrange Speaker [+] Control	(45) 45	(45) 0.75	(45) B U / VT	(45) 18 57	(45) IV	(45) —
(46) 46	(46) 0.75	(46) B U / BN	(46) 19 57	(46) II	(46) —	(46) Left Front Midrange Speaker [-] Control	(46) 46	(46) 0.75	(46) B U / BN	(46) 19 57	(46) IV	(46) —
(47) 47	(47) 2	(47) B U	(47) 47	(47) II	(47) —	(47) Trailer Auxiliary Control	(47) 47	(47) 2	(47) B U	(47) 47	(47) IV	(47) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(48) 48	(48) 2.5	(48) B K / WH	(48) 10 51	(48) II	(48) —	(48) Signal Ground	(48) 48	(48) 2.5 (48) 0.5	(48) B K / WH (48) B K / WH	(48) 10 51 (48) 10 51	(48) IV (48) IV	(48) IOK- D07 (48) D07- (IOK/ UQA)
(49) 49	(49) 0.35 (49) 0.35	(49) B U / RD (49) B U / YE	(49) 49 79 (49) 49 79	(49) I (49) I	(49) UGN (49) UHY	(49) AUTOSA R CAN Bus [+] 2 Serial Data (49) AUTOSA R CAN Bus [+] 2 Serial Data	(49) 49	(49) — (49) 0.5	(49) B U / YE (49) B U / YE	(49) 49 79 (49) 49 79	(49) V (49) III	(49) UGN (49) UHY
(50) 50	(50) 0.35 (50) 0.35	(50) WH / BN (50) WH	(50) 49 78 (50) 49 78	(50) I (50) I	(50) UGN (50) UHY	(50) AUTOSA R CAN Bus [-] 2 Serial Data (50) AUTOSA R CAN Bus [-] 2 Serial Data	(50) 50	(50) 0.5	(50) WH	(50) 49 78	(50) III	(50) —
(51) 51	(51) 0.35	(51) V T / GY	(51) 71 17	(51) I	(51) —	(51) Front Axle Differential Lock Indicator Control	(51) 51	(51) 0.35	(51) V T / GY	(51) 71 17	(51) III	(51) —
(52) 52	(52) 0.35	(52) Y E	(52) 71 15	(52) I	(52) —	(52) Rear Axle Differential Lock Indicator Control	(52) 52	(52) 0.35	(52) Y E	(52) 71 15	(52) III	(52) —
(53) 53	(53) 0.35	(53) Y E / GN	(53) 71 22	(53) I	(53) —	(53) Axle Differential Lock Switch Signal	(53) 53	(53) 0.35	(53) Y E / GN	(53) 71 22	(53) III	(53) —
(54) 54	(54) 0.5	(54) G N / VT	(54) 51 99	(54) I	(54) —	(54) Run/ Crank Relay Coil Control	(54) 54	(54) 0.5	(54) G N / VT	(54) 51 99	(54) III	(54) —
55 - 59	—	—	—	—	—	Not Occupied	55 - 59	—	—	—	—	—
(60) 60	(60) 0.35	(60) Y E / WH	(60) 16 90	(60) I	(60) —	(60) Mirror Dimming Signal	(60) 60	(60) 0.35	(60) Y E / WH	(60) 16 90	(60) III	(60) —
(61) 61	(61) 0.35	(61) B K / YE	(61) 16 91	(61) I	(61) —	(61) Automati c Day/Night Mirror Low Reference	(61) 61	(61) 0.35	(61) B K / YE	(61) 16 91	(61) III	(61) —
62 - 76	—	—	—	—	—	Not Occupied	62 - 76	—	—	—	—	—

X213 Auxiliary Fuse Block Wiring Harness to Instrument Panel Wiring Harness (9L7)



4934172



1283905

Connector Part Information

- Harness Type: Auxiliary Fuse Block Wiring Harness
- OEM Connector: 7289-7630-40
- Service Connector: Service by Harness - See Part Catalog
- Description: 14-Way F 1.5, 2.8 YESC Series(GY)

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 7282-6447-40
- Service Connector: 88956523
- Description: 14-Way M 1.5, 2.8 YESC Series(L-GY)

Terminal Part Information

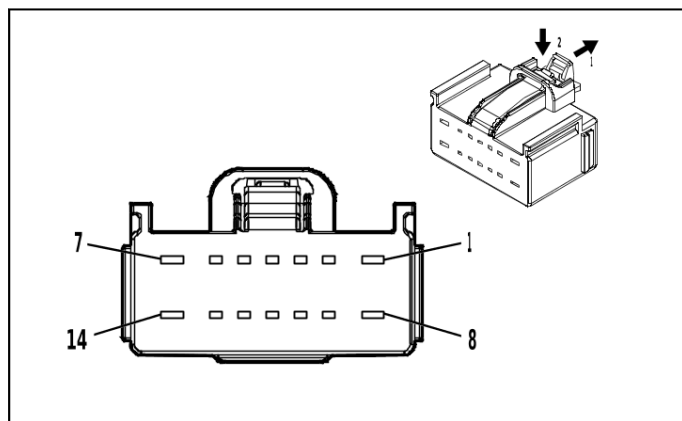
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required
III	13578907	J-35616-3 (GY)	J-38125-215A
IV	13578908	J-35616-5 (PU)	J-38125-11A

X213 Auxiliary Fuse Block Wiring Harness to Instrument Panel Wiring Harness (9L7)

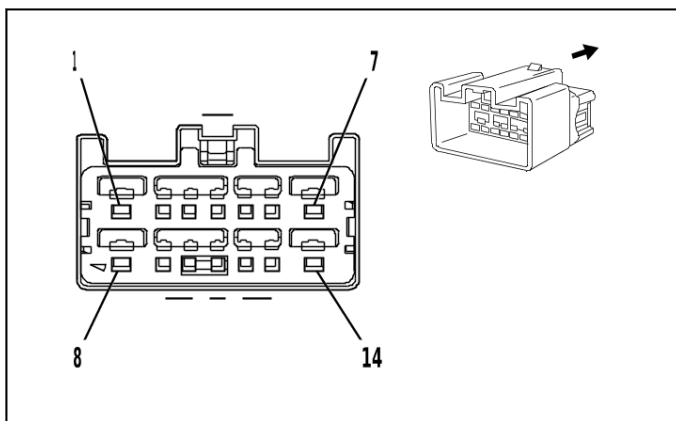
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK / WH	(1) 851	(1) II	(1) —	(1) Signal Ground	(1) 1	(1) 2.5	(1) W H	(1) 22	(1) IV	(1) —
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
(3) 3	(3) 0.35	(3) YE	(3) 681 7	(3) I	(3) —	(3) LED Backlight Dimming Control 1	(3) 3	(3) 0.35	(3) YE	(3) 681 7	(3) III	(3) —
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
(5) 5	(5) 0.5	(5) W H / BU	(5) 369 1	(5) I	(5) —	(5) Trailer Brake Apply Signal	(5) 5	(5) 0.35	(5) W H / BU	(5) 369 1	(5) III	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 2.5	(7) RD / BN	(7) 414 2	(7) II	(7) —	(7) Primary Fused Battery Positive Voltage	(7) 7	(7) 2.5	(7) RD / BN	(7) 414 2	(7) IV	(7) —
(8) 8	(8) 2.5	(8) VT / BU	(8) 107 35	(8) II	(8) —	(8) Upfitter Accessory 5 Supply Voltage	(8) 8	(8) 2.5	(8) VT / BU	(8) 107 35	(8) IV	(8) —
(9) 9	(9) —	(9) —	(9) —	(9) —	(9) —	(9) Out of Park Signal	(9) 9	(9) 0.35	(9) YE	(9) 681 2	(9) III	(9) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(10) 10	(10) —	(10) —	(10) —	(10) —	(10) —	(10) Vehicle Speed Signal	(10) 10	(10) 0.35	(10) G N / GY	(10) 81 7	(10) III	(10) —
(11) 11	(11) 0.35	(11) W H	(11) 68 16	(11) I	(11) —	(11) Indicator Dimming Control	(11) 11	(11) 0.35	(11) W H	(11) 68 16	(11) III	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
(13) 13	(13) 0.5	(13) V T / BK	(13) 33 9	(13) I	(13) —	(13) Run/ Crank Ignition 1 Voltage	(13) 13	(13) 0.5	(13) V T / BK	(13) 33 9	(13) III	(13) —
(14) 14	(14) 2	(14) B U	(14) 47	(14) II	(14) —	(14) Trailer Auxiliary Control	(14) 14	(14) 2	(14) B U	(14) 47	(14) IV	(14) —

X213 Trailer Wiring Harness Extension Harness to Instrument Panel Wiring Harness (- 9L7)



4934172



1283905

Connector Part Information

- Harness Type: Trailer Wiring Harness Extension Harness
- OEM Connector: 13513605
- Service Connector: Service by Harness - See Part Catalog
- Description: 14-Way F 1.5, 2.8 YESC Series(GY)

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 7282-6447-40
- Service Connector: 88956523
- Description: 14-Way M 1.5, 2.8 YESC Series(L-GY)

Terminal Part Information

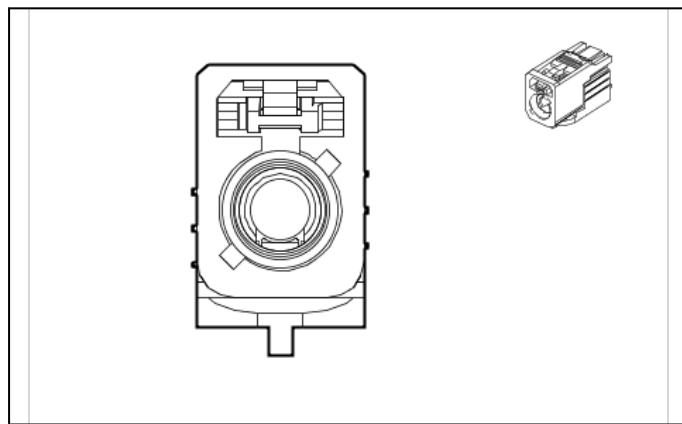
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required
III	13578907	J-35616-3 (GY)	J-38125-215A
IV	13578908	J-35616-5 (PU)	J-38125-11A

X213 Trailer Wiring Harness Extension Harness to Instrument Panel Wiring Harness (- 9L7)

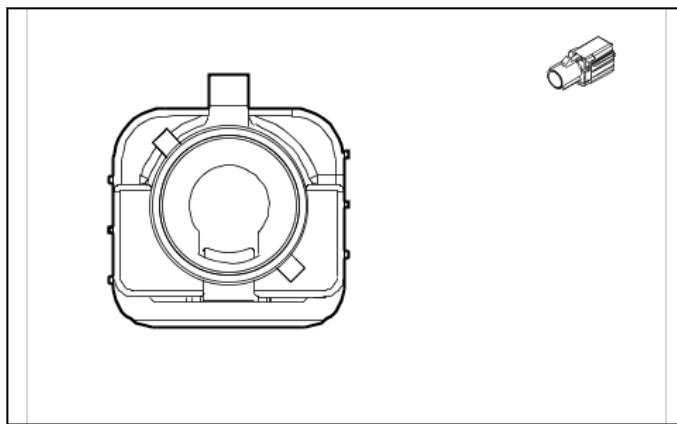
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) W H	(1) 22	(1) II	(1) —	(1) Trailer Ground	(1) 1	(1) 2.5	(1) W H	(1) 22	(1) IV	(1) —
(2) 2	(2) —	(2) —	(2) —	(2) —	(2) —	(2) Horn Relay Control	(2) 2	(2) 0.35	(2) BN / WH	(2) 28	(2) III	(2) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(3) 3	(3) —	(3) —	(3) —	(3) —	(3) —	(3) LED Backlight Dimming Control 1	(3) 3	(3) 0.35	(3) YE	(3) 681 ₇	(3) III	(3) —
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
(5) 5	(5) 0.5	(5) W H / BU	(5) 369 ₁	(5) I	(5) —	(5) Trailer Brake Apply Signal	(5) 5	(5) 0.35	(5) W H / BU	(5) 369 ₁	(5) III	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 2.5	(7) RD / BN	(7) 414 ₂	(7) II	(7) —	(7) Primary Fused Battery Positive Voltage	(7) 7	(7) 2.5	(7) RD / BN	(7) 414 ₂	(7) IV	(7) —
(8) 8	(8) —	(8) —	(8) —	(8) —	(8) —	(8) Upfitter Accessory 5 Supply Voltage	(8) 8	(8) 2.5	(8) VT / BU	(8) 107 ₃₅	(8) IV	(8) —
(9) 9	(9) —	(9) —	(9) —	(9) —	(9) —	(9) Out of Park Signal	(9) 9	(9) 0.35	(9) YE	(9) 681 ₂	(9) III	(9) —
(10) 10	(10) —	(10) —	(10) —	(10) —	(10) —	(10) Vehicle Speed Signal	(10) 10	(10) 0.35	(10) G N / GY	(10) 81 ₇	(10) III	(10) —
(11) 11	(11) —	(11) —	(11) —	(11) —	(11) —	(11) Indicator Dimming Control	(11) 11	(11) 0.35	(11) W H	(11) 68 ₁₆	(11) III	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
(13) 13	(13) —	(13) —	(13) —	(13) —	(13) —	(13) Run/ Crank Ignition 1 Voltage	(13) 13	(13) 0.5	(13) V T / BK	(13) 33 ₉	(13) III	(13) —
(14) 14	(14) 2	(14) B U	(14) 47	(14) II	(14) —	(14) Trailer Auxiliary Control	(14) 14	(14) 2	(14) B U	(14) 47	(14) IV	(14) —

X217 Body Wiring Harness to Instrument Panel Wiring Harness



6267120



5873701

Connector Part Information

- Harness Type: Body Wiring Harness COAX
- OEM Connector: 33351013
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BU)

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33351038
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way M Coax Type(BU)

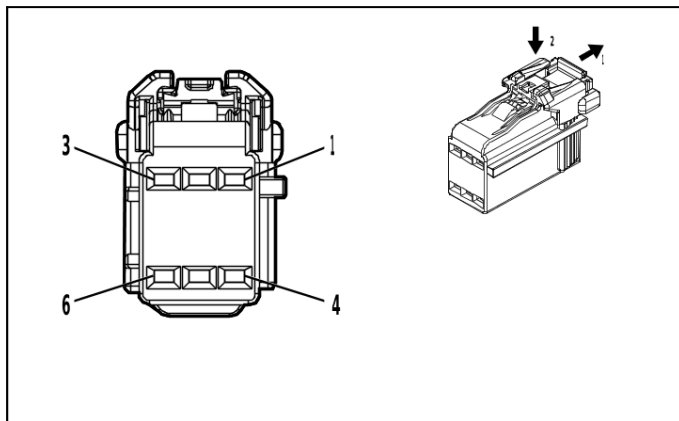
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

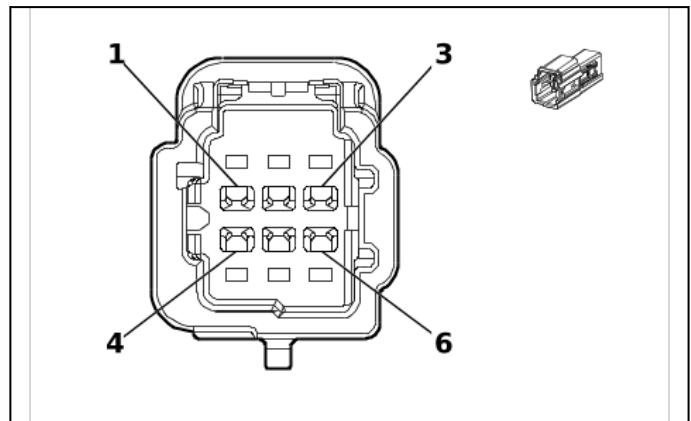
X217 Body Wiring Harness to Instrument Panel Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax Cable	—	I	—	Video Processing Module Coaxial Video Signal	—	—	Coax Cable	—	I	—

X218 Instrument Panel Wiring Harness to Body Wiring Harness



4862126



5714613

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6098-8996
- Service Connector: 84613129
- Description: 6-Way F 1.2 Series(BK)

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 6098-9120
- Service Connector: 86825467
- Description: 6-Way M 1.2 MBS Series(BK)

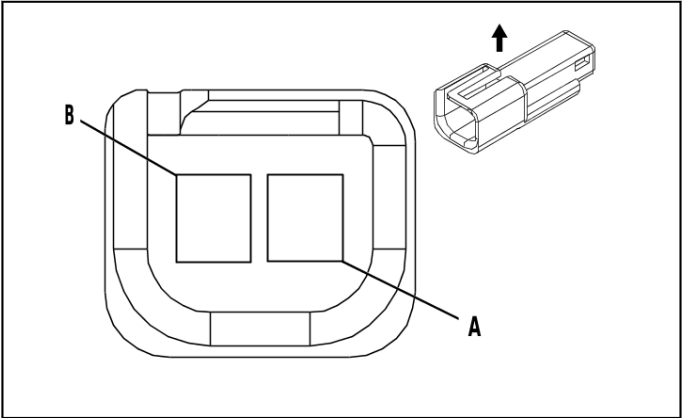
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Service by Cable	J-35616-12 (BU)	J-38125-215A
II	Service by Cable	J-35616-13 (BU)	J-38125-215A

X218 Instrument Panel Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) G _N	(1) 721 ₄	(1) I	(1) —	(1) Ethernet Bus 6 [-]	(1) 1	(1) 0.35	(1) G _N	(1) 721 ₄	(1) II	(1) —
(2) 2	(2) 0.35	(2) YE	(2) 721 ₅	(2) I	(2) —	(2) Ethernet Bus 6 [+]	(2) 2	(2) 0.35	(2) YE	(2) 721 ₅	(2) II	(2) —
3 - 4	—	—	—	—	—	Not Occupied	3 - 4	—	—	—	—	—
(5) 5	(5) 0.35	(5) BU	(5) 722 ₄	(5) I	(5) —	(5) Ethernet Bus 11 [-]	(5) 5	(5) 0.35	(5) BU	(5) 722 ₄	(5) II	(5) —
(6) 6	(6) 0.35	(6) W _H	(6) 722 ₅	(6) I	(6) —	(6) Ethernet Bus 11 [+]	(6) 6	(6) 0.35	(6) W _H	(6) 722 ₅	(6) II	(6) —

X219 Police Accessory Harness to Instrument Panel Wiring Harness (5W4 / 9C1)



35441

Connector Part Information

- Harness Type: Police Accessory Harness
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 12047663
- Service Connector: 13584278
- Description: 2-Way M 150 Metri-Pack Series(BK)

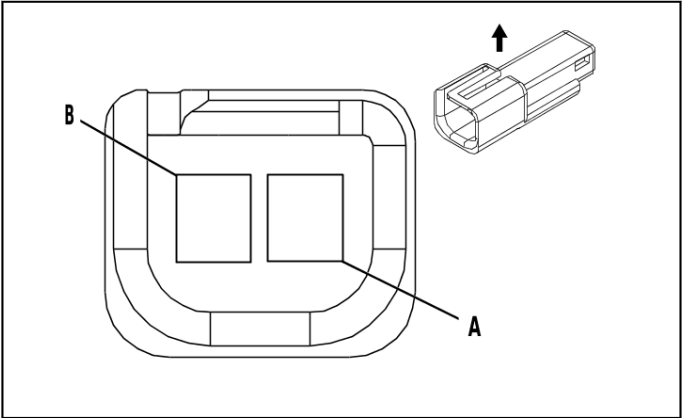
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X219 Police Accessory Harness to Instrument Panel Wiring Harness (5W4 / 9C1)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.75	BK	1050	I	—	Ground	A	0.75	BK	1050	II	—
B	0.75	RD / GY	10340	I	—	Battery Positive Voltage Police	B	0.75	RD / GY	10340	II	—

X220 Police Accessory Harness to Instrument Panel Wiring Harness (5W4 / 9C1)



35441

Connector Part Information

- Harness Type: Police Accessory Harness
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 12047663
- Service Connector: 13584278
- Description: 2-Way M 150 Metri-Pack Series(BK)

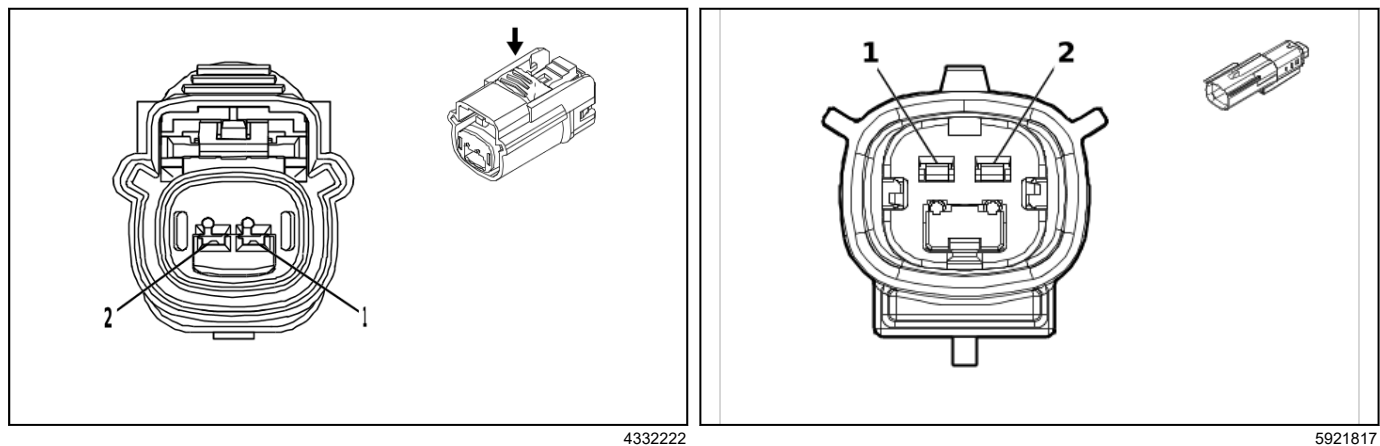
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X220 Police Accessory Harness to Instrument Panel Wiring Harness (5W4 / 9C1)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.75	BK	1050	I	—	Ground	A	0.75	BK	1050	II	—
B	0.75	RD / GN	10240	I	—	Battery Positive Voltage Police	B	0.75	RD / GN	10240	II	—

X225 Front Floor Console Wiring Harness to Body Wiring Harness



Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 15514573
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 OCS Series, Sealed(BK)

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 15514550
- Service Connector: 86825463
- Description: 2-Way M 1.5 OCS Series, Sealed(BK)

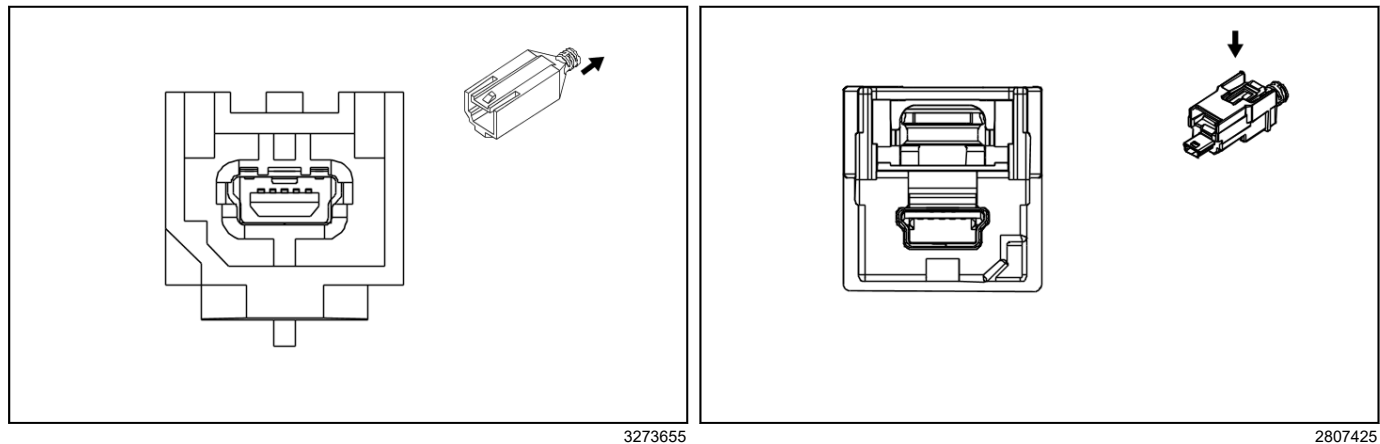
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Service by Cable	J-35616-2A (GY)	J-38125-215A
II	Service by Cable	J-35616-3 (GY)	J-38125-215A

X225 Front Floor Console Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BU	(1) 722 4	(1) I	(1) —	(1) Ethernet Bus 11 [-]	(1) 1	(1) 0.35	(1) BU	(1) 722 4	(1) II	(1) —
(2) 2	(2) 0.35	(2) W H	(2) 722 5	(2) I	(2) —	(2) Ethernet Bus 11 [+]	(2) 2	(2) 0.35	(2) W H	(2) 722 5	(2) II	(2) —

X226 Front Floor Console Wiring Harness to Instrument Panel Wiring Harness



- Connector Part Information**

 - Harness Type: Front Floor Console Wiring Harness USB
 - OEM Connector: 13699757
 - Service Connector: Service by Cable Assembly — See Part Catalog
 - Description: 5-Way F 2.0 Mini-B USB Type(BK)
- Connector Part Information**

 - Harness Type: Instrument Panel Wiring Harness USB
 - OEM Connector: 13576672
 - Service Connector: Service by Cable Assembly — See Part Catalog
 - Description: 5-Way M 2.0 Mini-B USB Type(BK)

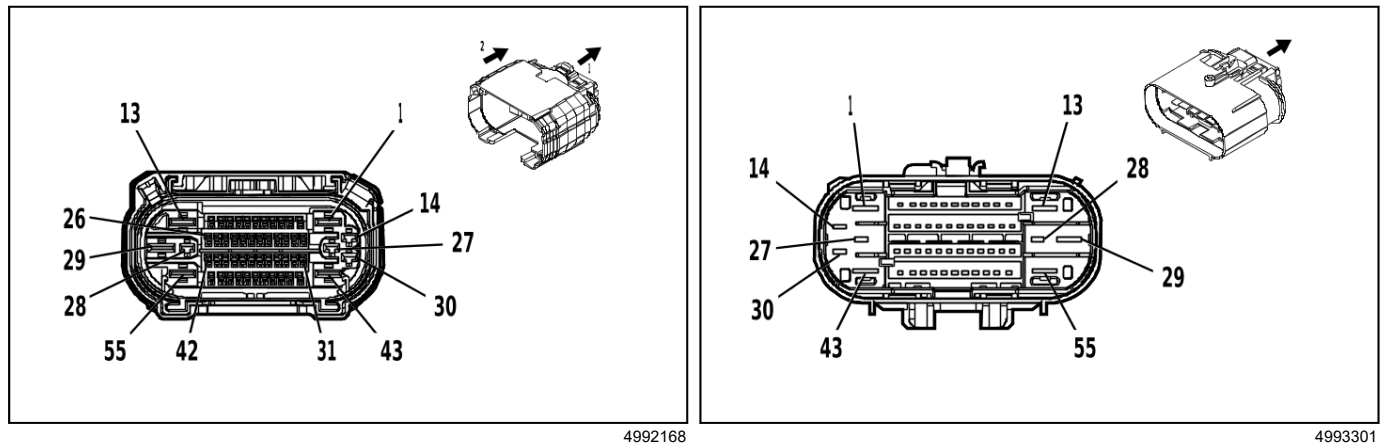
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X226 Front Floor Console Wiring Harness to Instrument Panel Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	USB	—	I	—	USB Serial Data	—	—	USB	—	I	—

X227 Front Floor Console Wiring Harness to Body Wiring Harness - Double Cab / Crew Cab



- Connector Part Information**

 - Harness Type: Front Floor Console Wiring Harness
 - OEM Connector: 35598969
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)
- Connector Part Information**

 - Harness Type: Body Wiring Harness
 - OEM Connector: 35589922
 - Service Connector: 84727364
 - Description: 55-Way M 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required
III	Not required	J-35616-35 (VT)	No Tool Required
IV	Not required	J-35616-42 (RD)	No Tool Required
V	84847992	J-35616-32 (OG)	J-38125-36
VI	84867140	J-35616-13 (BU)	J-38125-215A
VII	84992391	J-35616-5 (PU)	J-38125-36

X227 Front Floor Console Wiring Harness to Body Wiring Harness - Double Cab / Crew Cab

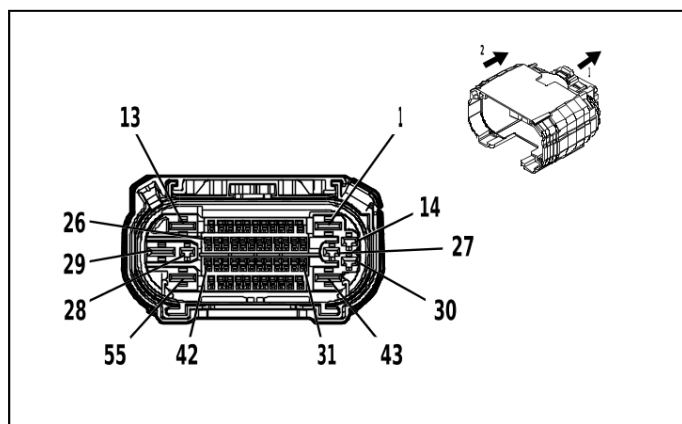
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 2	—	—	—	—	—	Not Occupied	1 - 2	—	—	—	—	—
(3) 3	(3) 0.35	(3) W H	(3) 498 6	(3) I	(3) —	(3) AUTOSAR CAN Bus [-] 1 Serial Data	(3) 3	(3) 0.35	(3) W H	(3) 498 6	(3) VI	(3) —
(4) 4	(4) 0.35	(4) BU	(4) 498 7	(4) I	(4) —	(4) AUTOSAR CAN Bus [+] 1 Serial Data	(4) 4	(4) 0.35	(4) BU	(4) 498 7	(4) VI	(4) —
(5) 5	(5) 0.35	(5) VT / WH	(5) 239	(5) I	(5) —	(5) Run/Crank Ignition 1 Voltage	(5) 5	(5) 0.5	(5) VT / WH	(5) 239	(5) VI	(5) —
(6) 6	(6) 0.35	(6) W H	(6) 498 6	(6) I	(6) —	(6) AUTOSAR CAN Bus [-] 1 Serial Data	(6) 6	(6) 0.5	(6) W H	(6) 498 6	(6) VI	(6) —
(7) 7	(7) 0.35	(7) BU	(7) 498 7	(7) I	(7) —	(7) AUTOSAR CAN Bus [+] 1 Serial Data	(7) 7	(7) 0.5	(7) BU	(7) 498 7	(7) VI	(7) —
(8) 8	(8) 0.35	(8) RD / WH	(8) 544 0	(8) I	(8) —	(8) Battery Positive Voltage	(8) 8	(8) 0.5	(8) RD / WH	(8) 544 0	(8) VI	(8) —
(9) 9	(9) 0.5	(9) RD / BU	(9) 124 0	(9) II	(9) —	(9) Battery Positive Voltage	(9) 9	(9) 0.5	(9) RD / BU	(9) 124 0	(9) VI	(9) —
(10) 10	(10) 0.35	(10) B N / BK	(10) 35 52	(10) I	(10) —	(10) Interior Passive Entry Antenna 1 High Signal	(10) 10	(10) 0.35	(10) B N / BK	(10) 35 52	(10) VI	(10) —
(11) 11	(11) 0.35	(11) W H	(11) 35 53	(11) I	(11) —	(11) Interior Passive Entry Antenna 1 Low Signal	(11) 11	(11) 0.35	(11) W H	(11) 35 53	(11) VI	(11) —
12 - 13	—	—	—	—	—	Not Occupied	12 - 13	—	—	—	—	—
(14) 14	(14) 0.75	(14) B K	(14) 10 117	(14) III	(14) —	(14) AC Outlet Phase A Control	(14) 14	(14) 0.75	(14) B K	(14) 10 117	(14) VII	(14) —
(15) 15	(15) 0.35	(15) R D / WH	(15) 47 40	(15) I	(15) —	(15) Battery Positive Voltage	(15) 15	(15) 0.5	(15) R D / WH	(15) 47 40	(15) VI	(15) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(16) 16	(16) 0.35	(16) Y E	(16) 49 76	(16) I	(16) —	(16) AUTOSAR CAN Bus [-] 3 Serial Data	(16) 16	(16) 0.5	(16) WH	(16) 49 76	(16) VI	(16) —
(17) 17	(17) 0.35	(17) B U / BK	(17) 49 77	(17) I	(17) —	(17) AUTOSAR CAN Bus [+] 3 Serial Data	(17) 17	(17) 0.5	(17) B U / BK	(17) 49 77	(17) VI	(17) —
(18) 18	(18) 0.35	(18) Y E	(18) 49 76	(18) I	(18) —	(18) AUTOSAR CAN Bus [-] 3 Serial Data	(18) 18	(18) 0.5	(18) WH	(18) 49 76	(18) VI	(18) —
(19) 19	(19) 0.35	(19) B U / BK	(19) 49 77	(19) I	(19) —	(19) AUTOSAR CAN Bus [+] 3 Serial Data	(19) 19	(19) 0.5	(19) B U / BK	(19) 49 77	(19) VI	(19) —
(20) 20	(20) 0.35 (20) 0.35	(20) WH (20) Y E	(20) 49 78 (20) 49 78	(20) I (20) I	(20) UGN-UKL (20) UKL	(20) AUTOSAR CAN Bus [-] 2 Serial Data (20) AUTOSAR CAN Bus [-] 2 Serial Data	(20) 20	(20) 0.35	(20) WH	(20) 49 78	(20) VI	(20) —
(21) 21	(21) 0.35	(21) B U / YE	(21) 49 79	(21) I	(21) —	(21) AUTOSAR CAN Bus [+] 2 Serial Data	(21) 21	(21) 0.35	(21) B U / YE	(21) 49 79	(21) VI	(21) —
(22) 22	(22) 0.5	(22) B U / YE	(22) 49 84	(22) II	(22) —	(22) AUTOSAR CAN Bus [-] 5 Serial Data	(22) 22	(22) 0.5	(22) B U / YE	(22) 49 84	(22) VI	(22) —
(23) 23	(23) 0.5	(23) B U / WH	(23) 49 85	(23) II	(23) —	(23) AUTOSAR CAN Bus [+] 5 Serial Data	(23) 23	(23) 0.5	(23) B U / WH	(23) 49 85	(23) VI	(23) —
(24) 24	(24) 0.5	(24) B U / YE	(24) 49 84	(24) II	(24) —	(24) AUTOSAR CAN Bus [-] 5 Serial Data	(24) 24	(24) 0.5	(24) B U / YE	(24) 49 84	(24) VI	(24) —
(25) 25	(25) 0.5	(25) B U / WH	(25) 49 85	(25) II	(25) —	(25) AUTOSAR CAN Bus [+] 5 Serial Data	(25) 25	(25) 0.5	(25) B U / WH	(25) 49 85	(25) VI	(25) —
(26) 26	(26) 0.5	(26) B K	(26) 13 50	(26) II	(26) —	(26) Ground	(26) 26	(26) 0.75	(26) B K	(26) 13 50	(26) VI	(26) —
(27) 27	(27) 0.5	(27) WH	(27) 10 116	(27) III	(27) —	(27) AC Outlet Low Reference	(27) 27	(27) 0.5	(27) WH	(27) 10 116	(27) VII	(27) —
(28) 28	(28) 0.35	(28) G N / BU	(28) 27 33	(28) III	(28) —	(28) Brake System Control Module LIN Bus 2	(28) 28	(28) 0.5	(28) G N / BU	(28) 27 33	(28) VII	(28) —
(29) 29	(29) 0.5	(29) R D / VT	(29) 26 40	(29) IV	(29) —	(29) Battery Positive Voltage	(29) 29	(29) 0.5	(29) R D / VT	(29) 26 40	(29) V	(29) —
(30) 30	(30) 0.75	(30) R D	(30) 10 118	(30) III	(30) —	(30) AC Outlet Phase B Control	(30) 30	(30) 0.75	(30) R D	(30) 10 118	(30) VII	(30) —
(31) 31	(31) 0.35	(31) V T / GY	(31) 89 78	(31) I	(31) —	(31) Inertial Sensor Supply Voltage	(31) 31	(31) 0.5	(31) V T / GY	(31) 89 78	(31) VI	(31) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(32) 32	(32) 0.35	(32) B N / BK	(32) 49 96	(32) I	(32) —	(32) Immobilizer Antenna Signal [+]	(32) 32	(32) 0.35	(32) B N / BK	(32) 49 96	(32) VI	(32) —
(33) 33	(33) 0.35	(33) WH / GY	(33) 49 97	(33) I	(33) —	(33) Immobilizer Antenna Low Signal	(33) 33	(33) 0.35	(33) WH / GY	(33) 49 97	(33) VI	(33) —
(34) 34	(34) 0.35	(34) WH / YE	(34) 89 76	(34) I	(34) —	(34) Private Serial Data Active Safety CAN Bus [-] Serial Data	(34) 34	(34) 0.5	(34) WH / YE	(34) 89 76	(34) VI	(34) —
(35) 35	(35) 0.35	(35) B U / YE	(35) 89 77	(35) I	(35) —	(35) Private Serial Data Active Safety CAN Bus [+] Serial Data	(35) 35	(35) 0.5	(35) B U / YE	(35) 89 77	(35) VI	(35) —
(36) 36	(36) 0.5	(36) R D / YE	(36) 23 40	(36) II	(36) —	(36) Battery Positive Voltage	(36) 36	(36) 0.5	(36) R D / YE	(36) 23 40	(36) VI	(36) —
(37) 37	(37) 0.5	(37) G N / VT	(37) 28 57	(37) II	(37) —	(37) Body Control Module LIN Bus 11	(37) 37	(37) 0.35	(37) G N / VT	(37) 28 57	(37) VI	(37) —
(38) 38	(38) 0.5	(38) V T / RD	(38) 40 49	(38) II	(38) —	(38) AC Power Outlet Sensor High Reference	(38) 38	(38) 0.5	(38) V T / RD	(38) 40 49	(38) VI	(38) —
(39) 39	(39) 0.35	(39) V T / GN	(39) 43 20	(39) I	(39) —	(39) Powertrain Sensor Bus Enable	(39) 39	(39) 0.5	(39) V T / GN	(39) 43 20	(39) VI	(39) —
(40) 40	(40) 0.35	(40) WH	(40) 40 55	(40) I	(40) —	(40) Private Serial Data Powertrain CAN Bus [+] Serial Data	(40) 40	(40) 0.5	(40) WH	(40) 40 55	(40) VI	(40) —
(41) 41	(41) 0.35	(41) G N / GY	(41) 46 27	(41) I	(41) —	(41) Image Processing Module LIN Bus 1	(41) 41	(41) 0.5	(41) G N / GY	(41) 46 27	(41) VI	(41) —
(42) 42	(42) 0.5	(42) B U / BN	(42) 68 07	(42) II	(42) —	(42) DC/AC Inverter Control	(42) 42	(42) 0.5	(42) B U / BN	(42) 68 07	(42) VI	(42) —
(43) 43	(43) 0.5	(43) G N / VT	(43) 47 86	(43) IV	(43) —	(43) Dome/Reading Lamp Enable Signal	(43) 43	(43) 0.5	(43) G N / VT	(43) 47 86	(43) V	(43) —
(44) 44	(44) 0.75	(44) Y E	(44) 68 17	(44) II	(44) —	(44) LED Backlight Dimming Control 1	(44) 44	(44) 0.75	(44) Y E	(44) 68 17	(44) VI	(44) —
(45) 45	(45) 0.35	(45) B U / GY	(45) 40 54	(45) I	(45) —	(45) Private Serial Data Powertrain CAN Bus [-] Serial Data	(45) 45	(45) 0.5	(45) B U / GY	(45) 40 54	(45) VI	(45) —
(46) 46	(46) 0.35	(46) WH	(46) 40 55	(46) I	(46) —	(46) Private Serial Data Powertrain CAN Bus [+] Serial Data	(46) 46	(46) 0.5	(46) WH	(46) 40 55	(46) VI	(46) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(47) 47	(47) 0.5	(47) B K	(47) 14 51	(47) II	(47) —	(47) Signal Ground	(47) 47	(47) 0.75	(47) B K / WH	(47) 14 51	(47) VI	(47) —
(48) 48	(48) 0.35	(48) V T	(48) 47 01	(48) I	(48) —	(48) Retained Accessory Power Control	(48) 48	(48) 0.35	(48) V T	(48) 47 01	(48) VI	(48) —
(49) 49	(49) 0.35	(49) WH / GY	(49) 41 04	(49) I	(49) —	(49) AUTOSAR CAN Bus [-] 8 Serial Data	(49) 49	(49) 0.5	(49) WH / GY	(49) 41 04	(49) VI	(49) —
(50) 50	(50) 0.35	(50) B U / GY	(50) 41 05	(50) I	(50) —	(50) AUTOSAR CAN Bus [+] 8 Serial Data	(50) 50	(50) 0.5	(50) B U / GY	(50) 41 05	(50) VI	(50) —
(51) 51	(51) 0.5	(51) B K / WH	(51) 14 51	(51) II	(51) —	(51) Signal Ground	(51) 51	(51) 0.75	(51) B K / WH	(51) 14 51	(51) VI	(51) —
(52) 52	(52) 0.5	(52) B K / WH	(52) 10 51	(52) II	(52) —	(52) Signal Ground	(52) 52	(52) 0.5	(52) B K / WH	(52) 10 51	(52) VI	(52) —
(53) 53	(53) 0.35	(53) B U / GY	(53) 40 54	(53) I	(53) —	(53) Private Serial Data Powertrain CAN Bus [-] Serial Data	(53) 53	(53) 0.5	(53) B U / GY	(53) 40 54	(53) VI	(53) —
54 - 55	—	—	—	—	—	Not Occupied	54 - 55	—	—	—	—	—

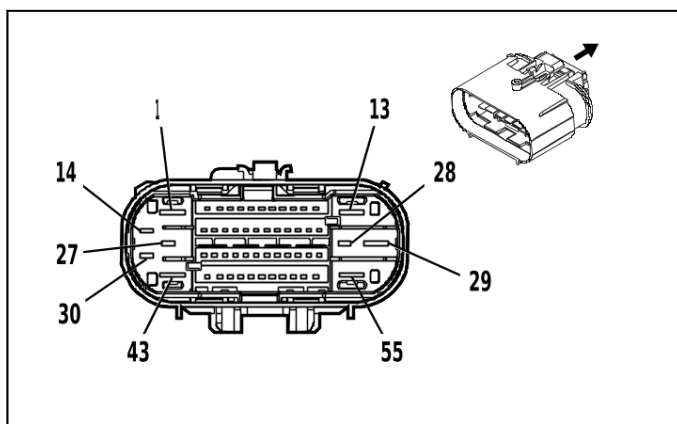
X227 Front Floor Console Wiring Harness to Body Wiring Harness - Regular Cab



4992168

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Center
- OEM Connector: 35016652
- Service Connector: Service by Harness - See Part Catalog
- Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)



4993301

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35589924
- Service Connector: 84727364
- Description: 55-Way M 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-35 (VT)	No Tool Required

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
III	84847992	J-35616-32 (OG)	J-38125-36
IV	84867140	J-35616-13 (BU)	J-38125-215A
V	84992391	J-35616-5 (PU)	J-38125-36

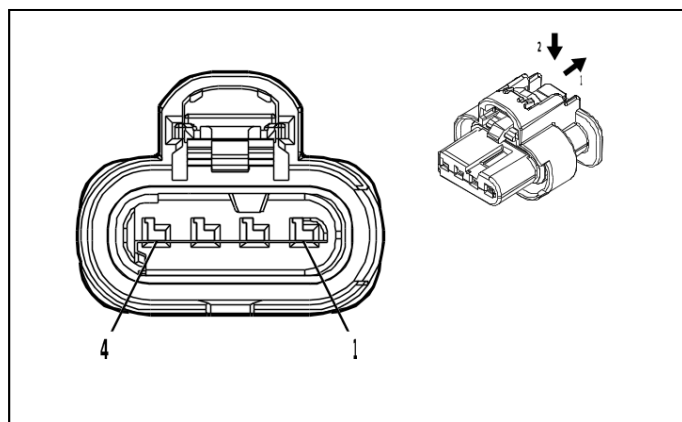
X227 Front Floor Console Wiring Harness to Body Wiring Harness - Regular Cab

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 4	—	—	—	—	—	Not Occupied	1 - 4	—	—	—	—	—
(5) 5	(5) —	(5) —	(5) —	(5) —	(5) —	(5) Run/ Crank Ignition 1 Voltage	(5) 5	(5) 0. 5	(5) VT / WH	(5) 239	(5) IV	(5) —
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—
(8) 8	(8) —	(8) —	(8) —	(8) —	(8) —	(8) Battery Positive Volt- age	(8) 8	(8) 0. 5	(8) RD / WH	(8) 544 0	(8) IV	(8) —
9	—	—	—	—	—	Not Occupied	9	—	—	—	—	—
(10) 10	(10) —	(10) —	(10) —	(10) —	(10) —	(10) Interior Passive Entry Antenna 1 High Signal	(10) 10	(10) 0.35	(10) B N / BK	(10) 35 52	(10) IV	(10) —
(11) 11	(11) —	(11) —	(11) —	(11) —	(11) —	(11) Interior Passive Entry Antenna 1 Low Signal	(11) 11	(11) 0.35	(11) W H	(11) 35 53	(11) IV	(11) —
12 - 13	—	—	—	—	—	Not Occupied	12 - 13	—	—	—	—	—
(14) 14	(14) 0.75	(14) B K	(14) 10 117	(14) II	(14) —	(14) AC Outlet Phase A Control	(14) 14	(14) 0.75	(14) B K	(14) 10 117	(14) V	(14) —
15	—	—	—	—	—	Not Occupied	15	—	—	—	—	—
(16) 16	(16) 0.35	(16) WH	(16) 49 76	(16) I	(16) —	(16) AUTOSA R CAN Bus [-] 3 Serial Data	(16) 16	(16) 0.5	(16) WH	(16) 49 76	(16) IV	(16) —
(17) 17	(17) 0.35	(17) B U / BK	(17) 49 77	(17) I	(17) —	(17) AUTOSA R CAN Bus [+] 3 Serial Data	(17) 17	(17) 0.5	(17) B U / BK	(17) 49 77	(17) IV	(17) —
(18) 18	(18) 0.35	(18) WH	(18) 49 76	(18) I	(18) —	(18) AUTOSA R CAN Bus [-] 3 Serial Data	(18) 18	(18) 0.5	(18) WH	(18) 49 76	(18) IV	(18) —
(19) 19	(19) 0.35	(19) B U / BK	(19) 49 77	(19) I	(19) —	(19) AUTOSA R CAN Bus [+] 3 Serial Data	(19) 19	(19) 0.5	(19) B U / BK	(19) 49 77	(19) IV	(19) —
20 - 21	—	—	—	—	—	Not Occupied	20 - 21	—	—	—	—	—
(22) 22	(22) 0.5	(22) B U / YE	(22) 49 84	(22) I	(22) —	(22) AUTOSA R CAN Bus [-] 5 Serial Data	(22) 22	(22) 0.5	(22) B U / YE	(22) 49 84	(22) IV	(22) —
(23) 23	(23) 0.5	(23) B U / WH	(23) 49 85	(23) I	(23) —	(23) AUTOSA R CAN Bus [+] 5 Serial Data	(23) 23	(23) 0.5	(23) B U / WH	(23) 49 85	(23) IV	(23) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(24) 24	(24) 0.5	(24) B U / YE	(24) 49 84	(24) I	(24) —	(24) AUTOSAR CAN Bus [-] 5 Serial Data	(24) 24	(24) 0.5	(24) B U / YE	(24) 49 84	(24) IV	(24) —
(25) 25	(25) 0.5	(25) B U / WH	(25) 49 85	(25) I	(25) —	(25) AUTOSAR CAN Bus [+] 5 Serial Data	(25) 25	(25) 0.5	(25) B U / WH	(25) 49 85	(25) IV	(25) —
(26) 26	(26) 0.75	(26) B K	(26) 10 50	(26) I	(26) —	(26) Ground	(26) 26	(26) 0.75	(26) B K	(26) 13 50	(26) IV	(26) —
(27) 27	(27) 0.35	(27) B K	(27) 10 116	(27) II	(27) —	(27) AC Outlet Low Reference	(27) 27	(27) 0.5	(27) WH	(27) 10 116	(27) V	(27) —
(28) 28	(28) —	(28) —	(28) —	(28) —	(28) —	(28) Brake System Control Module LIN Bus 2	(28) 28	(28) 0.5	(28) G N / BU	(28) 27 33	(28) V	(28) —
(29) 29	(29) —	(29) —	(29) —	(29) —	(29) —	(29) Battery Positive Voltage	(29) 29	(29) 0.5	(29) R D / VT	(29) 26 40	(29) III	(29) —
(30) 30	(30) 0.75	(30) R D	(30) 10 118	(30) II	(30) —	(30) AC Outlet Phase B Control	(30) 30	(30) 0.75	(30) R D	(30) 10 118	(30) V	(30) —
31	—	—	—	—	—	Not Occupied	31	—	—	—	—	—
(32) 32	(32) 0.5	(32) B N / BK	(32) 49 96	(32) I	(32) —	(32) Immobilizer Antenna Signal [+]	(32) 32	(32) 0.35	(32) B N / BK	(32) 49 96	(32) IV	(32) —
(33) 33	(33) 0.5	(33) WH / GY	(33) 49 97	(33) I	(33) —	(33) Immobilizer Antenna Low Signal	(33) 33	(33) 0.35	(33) WH / GY	(33) 49 97	(33) IV	(33) —
34 - 35	—	—	—	—	—	Not Occupied	34 - 35	—	—	—	—	—
(36) 36	(36) —	(36) —	(36) —	(36) —	(36) —	(36) Battery Positive Voltage	(36) 36	(36) 0.5	(36) R D / YE	(36) 23 40	(36) IV	(36) —
37	—	—	—	—	—	Not Occupied	37	—	—	—	—	—
(38) 38	(38) 0.75	(38) V T / RD	(38) 40 49	(38) I	(38) —	(38) AC Power Outlet Sensor High Reference	(38) 38	(38) 0.5	(38) V T / RD	(38) 40 49	(38) IV	(38) —
(39) 39	(39) —	(39) —	(39) —	(39) —	(39) —	(39) Powertrain Sensor Bus Enable	(39) 39	(39) 0.5	(39) V T / GN	(39) 43 20	(39) IV	(39) —
(40) 40	(40) 0.35	(40) WH	(40) 40 55	(40) I	(40) —	(40) Private Serial Data Powertrain CAN Bus [+] Serial Data	(40) 40	(40) 0.5	(40) WH	(40) 40 55	(40) IV	(40) —
41	—	—	—	—	—	Not Occupied	41	—	—	—	—	—
(42) 42	(42) 0.75	(42) B U / BN	(42) 68 07	(42) I	(42) —	(42) DC/AC Inverter Control	(42) 42	(42) 0.5	(42) B U / BN	(42) 68 07	(42) IV	(42) —
(43) 43	(43) —	(43) —	(43) —	(43) —	(43) —	(43) Dome/Reading Lamp Enable Signal	(43) 43	(43) 0.5	(43) G N / VT	(43) 47 86	(43) III	(43) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(44) 44	(44) 0.75	(44) Y E	(44) 68 17	(44) I	(44) —	(44) LED Backlight Dimming Control 1	(44) 44	(44) 0.75	(44) Y E	(44) 68 17	(44) IV	(44) —
(45) 45	(45) 0.35	(45) B U / GY	(45) 40 54	(45) I	(45) —	(45) Private Serial Data Powertrain CAN Bus [-] Serial Data	(45) 45	(45) 0.5	(45) B U / GY	(45) 40 54	(45) IV	(45) —
(46) 46	(46) 0.35	(46) WH	(46) 40 55	(46) I	(46) —	(46) Private Serial Data Powertrain CAN Bus [+] Serial Data	(46) 46	(46) 0.5	(46) WH	(46) 40 55	(46) IV	(46) —
(47) 47	(47) 0.35	(47) B K	(47) 13 50	(47) I	(47) —	(47) Ground	(47) 47	(47) 0.75	(47) B K / WH	(47) 14 51	(47) IV	(47) —
(48) 48	(48) 0.35	(48) V T	(48) 47 01	(48) I	(48) —	(48) Retained Accessory Power Control	(48) 48	(48) 0.35	(48) V T	(48) 47 01	(48) IV	(48) —
49 - 51	—	—	—	—	—	Not Occupied	49 - 51	—	—	—	—	—
(52) 52	(52) —	(52) —	(52) —	(52) —	(52) —	(52) Signal Ground	(52) 52	(52) 0.5	(52) B K / WH	(52) 10 51	(52) IV	(52) —
(53) 53	(53) 0.35	(53) B U / GY	(53) 40 54	(53) I	(53) —	(53) Private Serial Data Powertrain CAN Bus [-] Serial Data	(53) 53	(53) 0.5	(53) B U / GY	(53) 40 54	(53) IV	(53) —
54 - 55	—	—	—	—	—	Not Occupied	54 - 55	—	—	—	—	—

X237 Instrument Panel Wiring Harness to Instrument Panel Airbag Wiring Harness



4900699

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 2296700-3
- Service Connector: 19371193
- Description: 4-Way F 1.2 MCON-CB Series, Sealed(YE)

Connector Part Information

- Harness Type: Instrument Panel Airbag Wiring Harness
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M (YE)

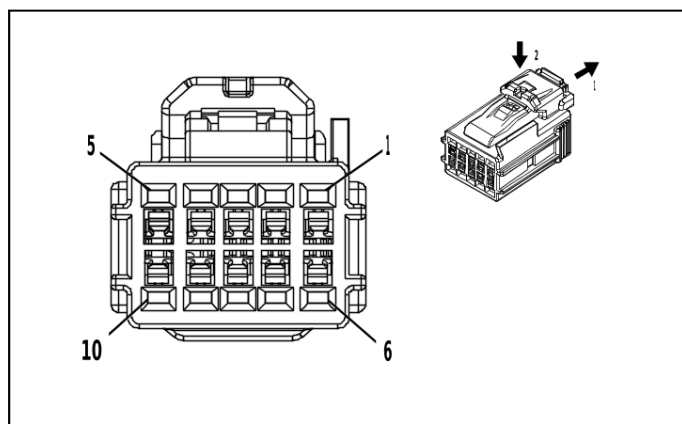
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	No Tool Required	No Tool Required

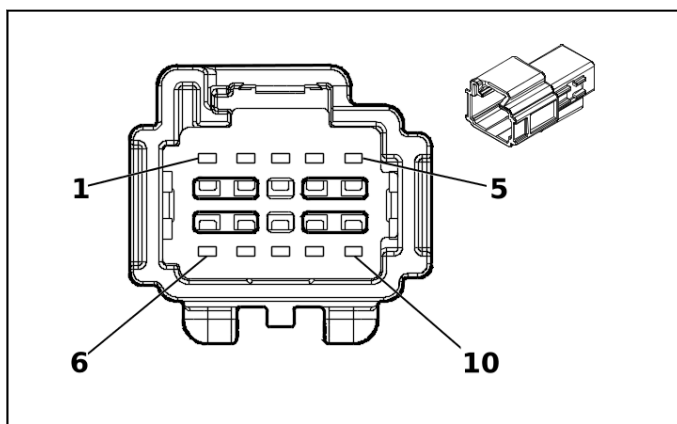
X237 Instrument Panel Wiring Harness to Instrument Panel Airbag Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) YE / OG	(1) 302 ₅	(1) I	(1) —	(1) Passenger Instrument Panel Air Bag Stage 1 High Control	(1) 1	(1) 0.35	(1) YE / OG	(1) 302 ₅	(1) II	(1) —
(2) 2	(2) 0.35	(2) OG / WH	(2) 302 ₄	(2) I	(2) —	(2) Passenger Instrument Panel Air Bag Stage 1 Low Control	(2) 2	(2) 0.35	(2) OG / WH	(2) 302 ₄	(2) II	(2) —
(3) 3	(3) 0.35	(3) GY / OG	(3) 302 ₇	(3) I	(3) —	(3) Passenger Instrument Panel Air Bag Stage 2 High Control	(3) 3	(3) 0.35	(3) GY / OG	(3) 302 ₇	(3) II	(3) —
(4) 4	(4) 0.35	(4) OG / VT	(4) 302 ₆	(4) I	(4) —	(4) Passenger Instrument Panel Air Bag Stage 2 Low Control	(4) 4	(4) 0.35	(4) OG / VT	(4) 302 ₆	(4) II	(4) —

X250 Instrument Panel Wiring Harness to Heater Wiring Harness



4254030



5355759

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6098-9004
- Service Connector: 13532428
- Description: 10-Way F 1.2 Series(BK)

Connector Part Information

- Harness Type: Heater Wiring Harness
- OEM Connector: 6098-9079
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way M 1.2 MCON Series(BK)

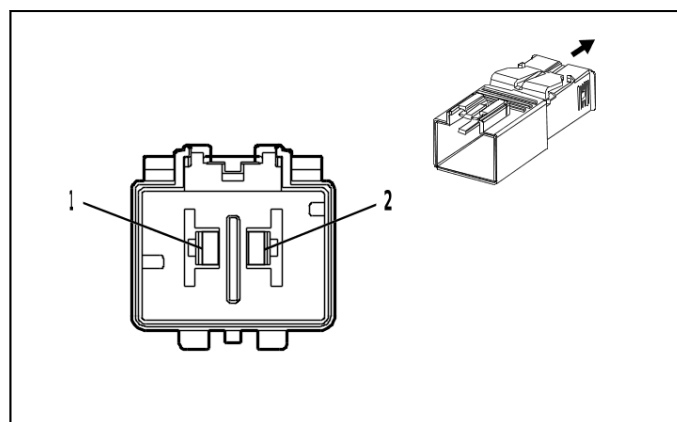
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84962854	J-35616-12 (BU)	J-38125-215A
II	Not required	J-35616-17 (L-GN)	No Tool Required

X250 Instrument Panel Wiring Harness to Heater Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
(2) 2	(2) 0.5	(2) BK	(2) 105 ₀	(2) I	(2) —	(2) Ground	(2) 2	(2) 0.35	(2) BK	(2) 105 ₀	(2) II	(2) —
3 - 4	—	—	—	—	—	Not Occupied	3 - 4	—	—	—	—	—
(5) 5	(5) 0.35	(5) GY	(5) 613 ₇	(5) I	(5) —	(5) Air Conditioning Evaporator Temperature Sensor Signal	(5) 5	(5) 0.35	(5) BN	(5) 613 ₇	(5) II	(5) —
(6) 6	(6) 0.35	(6) G N / VT	(6) 285 ₂	(6) I	(6) —	(6) Body Control Module LIN Bus 6	(6) 6	(6) 0.35	(6) BU	(6) 285 ₂	(6) II	(6) —
(7) 7	(7) 0.35	(7) BK / YE	(7) 407	(7) I	(7) —	(7) Sensor Low Reference	(7) 7	(7) 0.35	(7) BK / YE	(7) 407	(7) II	(7) —
(8) 8	(8) 0.5	(8) VT / BK	(8) 339	(8) I	(8) —	(8) Run/ Crank Ignition 1 Voltage	(8) 8	(8) 0.35	(8) BN / VT	(8) 339	(8) II	(8) —
(9) 9	(9) 0.35	(9) W H / YE	(9) 463 ₄	(9) I	(9) —	(9) HVAC Remote Enable Signal	(9) 9	(9) 0.35	(9) RD	(9) 463 ₄	(9) II	(9) —
10	—	—	—	—	—	Not Occupied	10	—	—	—	—	—

X251 HVAC Wiring Harness to Body Wiring Harness (C32)



4891120

Connector Part Information

- Harness Type: HVAC Wiring Harness
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F

Connector Part Information

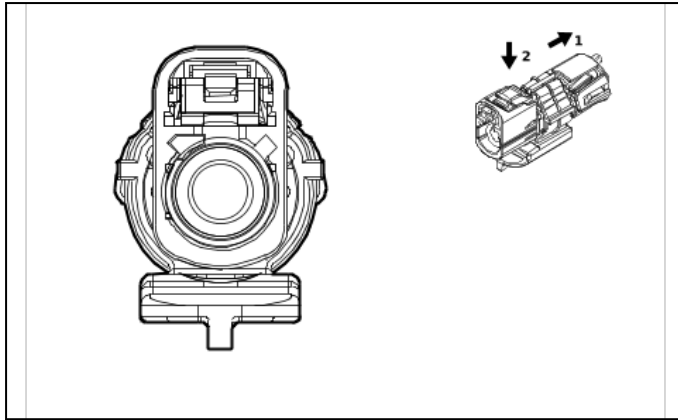
- Harness Type: Body Wiring Harness
- OEM Connector: 2317373-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 9.5 MCON-LL Series(BK)

Terminal Part Information

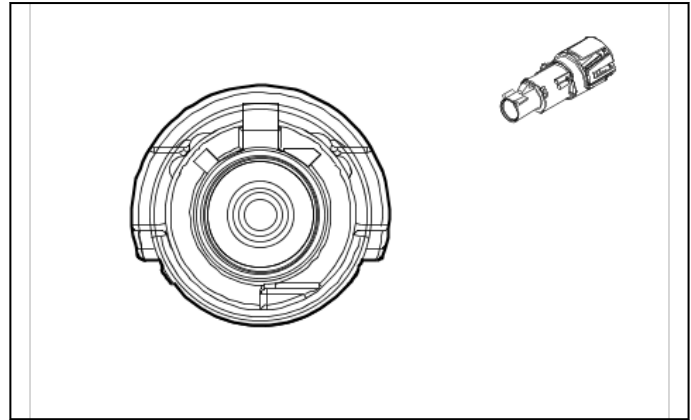
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-21 (RD)	No Tool Required

X251 HVAC Wiring Harness to Body Wiring Harness (C32)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(2) 2	(2) 1 0	(2) RD / GY	(2) 642	(2) I	(2) —	(2) Battery Positive Volt- age	(2) 2	(2) 1 0	(2) RD / GY	(2) 642	(2) II	(2) —

X309 Body Wiring Harness to Inside Rearview Mirror Wiring Harness - Jumper (UVN)

5519150



5518522

Connector Part Information

- Harness Type: Body Wiring Harness COAX
- OEM Connector: 35187047
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type, Sealed(BK)

Connector Part Information

- Harness Type: Inside Rearview Mirror Wiring Harness - Jumper COAX
- OEM Connector: 33355538
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way M Coax Type(BK)

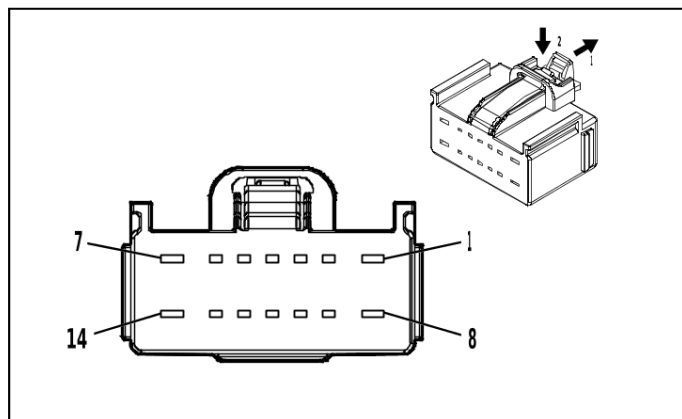
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

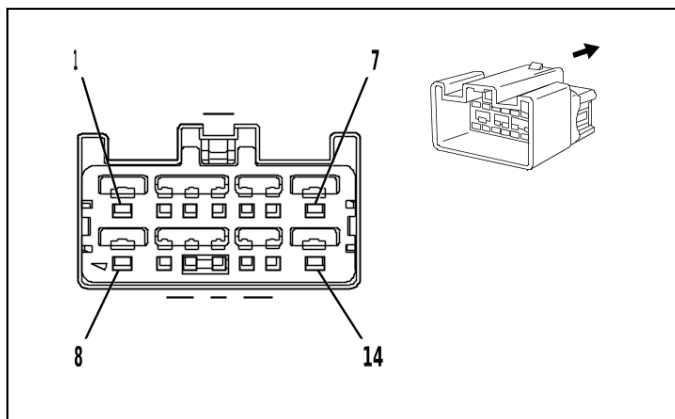
X309 Body Wiring Harness to Inside Rearview Mirror Wiring Harness - Jumper (UVN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax Cable	—	I	—	Rear Vision Camera Coaxial Video Signal	—	—	Coax Cable	—	I	—

X324 Body Wiring Harness to Body Rear Wiring Harness Extension Harness (KI5)



4934172



1283905

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 7289-7630-30
- Service Connector: 13513604
- Description: 14-Way F 1.5, 2.8 YESC Series(BK)

Connector Part Information

- Harness Type: Body Rear Wiring Harness Extension Harness
- OEM Connector: 7282-6447-40
- Service Connector: Service by Harness - See Part Catalog
- Description: 14-Way M 1.5, 2.8 YESC Series(L-GY)

Terminal Part Information

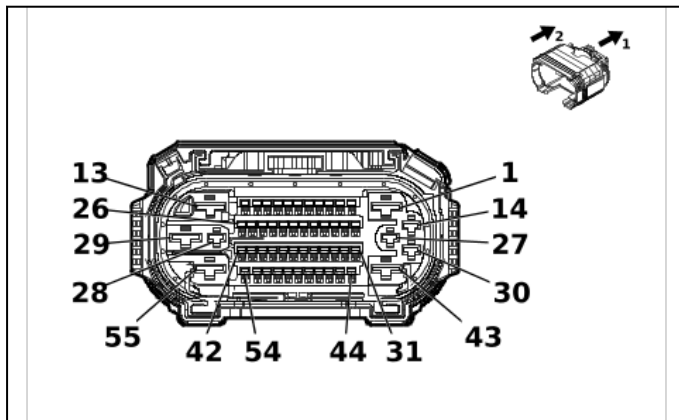
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575850	J-35616-2A (GY)	J-38125-557
II	84962855	J-35616-4A (PU)	J-38125-11A
III	Not required	J-35616-3 (GY)	No Tool Required
IV	Not required	J-35616-5 (PU)	No Tool Required

X324 Body Wiring Harness to Body Rear Wiring Harness Extension Harness (KI5)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 101 17	(1) II	(1) —	(1) AC Outlet Phase A Control	(1) 1	(1) 0.75	(1) BK	(1) 101 17	(1) IV	(1) —
(2) 2	(2) 0.5	(2) VT / RD	(2) 404 9	(2) I	(2) —	(2) AC Power Outlet Sensor High Reference	(2) 2	(2) 0.5	(2) VT / RD	(2) 404 9	(2) III	(2) —
(3) 3	(3) 0.35	(3) VT / WH	(3) 239	(3) I	(3) —	(3) Run/ Crank Ignition 1 Voltage	(3) 3	(3) 0.35	(3) VT / WH	(3) 239	(3) III	(3) —
(4) 4	(4) 0.5	(4) W _H / GN	(4) 462 8	(4) I	(4) —	(4) DC/AC Inverter Relay Control	(4) 4	(4) 0.5	(4) W _H / GN	(4) 462 8	(4) III	(4) —
(5) 5	(5) 0.5	(5) BU / BN	(5) 680 7	(5) I	(5) —	(5) DC/AC Inverter Control	(5) 5	(5) 0.5	(5) BU / BN	(5) 680 7	(5) III	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 0.75	(7) BK / WH	(7) 101 20	(7) II	(7) —	(7) AC Outlet 2 Phase A Control	(7) 7	(7) 0.75	(7) BK / WH	(7) 101 20	(7) IV	(7) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(8) 8	(8) 0.75	(8) RD	(8) 101 18	(8) II	(8) —	(8) AC Outlet Phase B Control	(8) 8	(8) 0.75	(8) RD	(8) 101 18	(8) IV	(8) —
(9) 9	(9) 0.35	(9) BA RE	(9) 101 16	(9) I	(9) —	(9) AC Outlet Low Reference	(9) 9	(9) 0.35	(9) BA RE	(9) 101 16	(9) III	(9) —
(10) 10	(10) 0.35	(10) G N / BU	(10) 61 33	(10) I	(10) —	(10) Body Control Module LIN Bus 2	(10) 10	(10) 0.5	(10) G N / BU	(10) 61 33	(10) III	(10) —
11	—	—	—	—	—	Not Occupied	11	—	—	—	—	—
(12) 12	(12) 0.5	(12) G N / BN	(12) 22 66	(12) I	(12) —	(12) DC/AC Inverter Control 2	(12) 12	(12) 0.5	(12) G N / BN	(12) 22 66	(12) III	(12) —
(13) 13	(13) 0.35	(13) B ARE	(13) 10 119	(13) I	(13) —	(13) AC Outlet 2 Low Reference	(13) 13	(13) 0.35	(13) B ARE	(13) 10 119	(13) III	(13) —
(14) 14	(14) 0.75	(14) R D / WH	(14) 10 121	(14) II	(14) —	(14) AC Outlet 2 Phase B Control	(14) 14	(14) 0.75	(14) R D / WH	(14) 10 121	(14) IV	(14) —

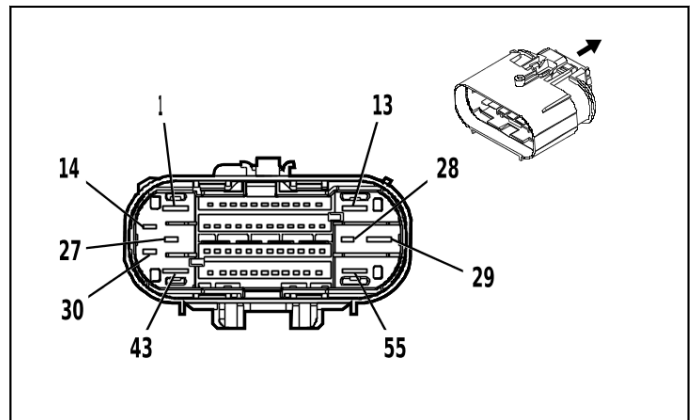
X331 Front Seat Wiring Harness - Driver to Body Wiring Harness



5823852

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver
- OEM Connector: 35572204
- Service Connector: Service by Harness - See Part Catalog
- Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)



4993301

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35588064
- Service Connector: 84727364
- Description: 55-Way M 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Terminal Part Information

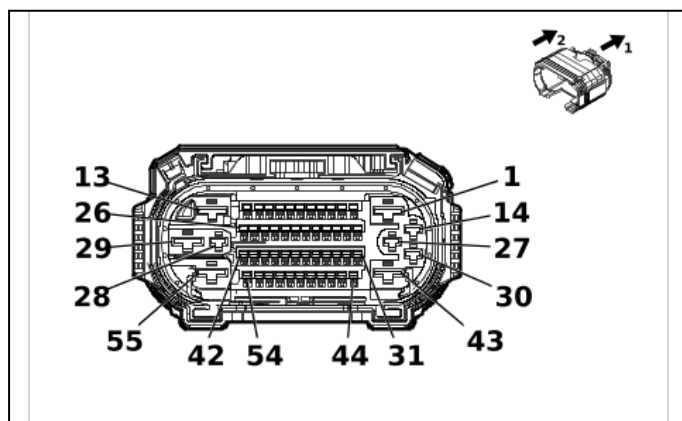
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-42 (RD)	No Tool Required
III	Not required	No Tool Required	No Tool Required
IV	84847992	J-35616-32 (OG)	J-38125-36
V	84867140	J-35616-13 (BU)	J-38125-215A

X331 Front Seat Wiring Harness - Driver to Body Wiring Harness

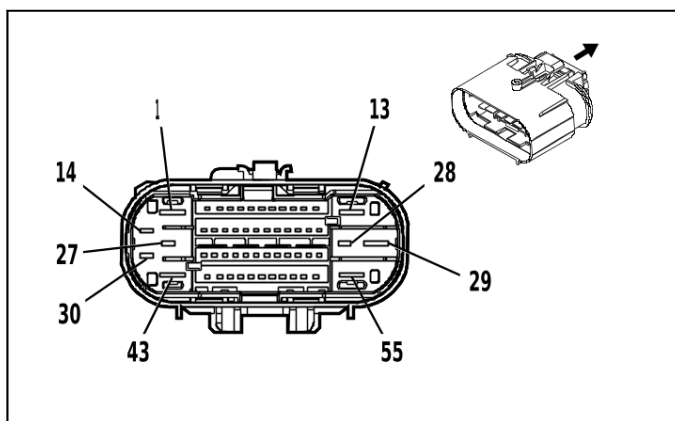
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BK	(1) 155 0	(1) II	(1) —	(1) Ground	(1) 1	(1) 2.5	(1) BK	(1) 155 0	(1) IV	(1) —
2 - 3	—	—	—	—	—	Not Occupied	2 - 3	—	—	—	—	—
(4) 4	(4) 0.5 (4) 0.75	(4) RD / BN (4) RD / BN	(4) 224 0 (4) 224 0	(4) I (4) I	(4) A45 (4) - A45	(4) Battery Positive Voltage (4) Battery Positive Voltage	(4) 4	(4) 0.5	(4) RD / BN	(4) 224 0	(4) V	(4) —
(5) 5	(5) 0.35	(5) GN / WH	(5) 753 0	(5) I	(5) —	(5) Driver Seat Adjuster Memory Module LIN Bus 1	(5) 5	(5) 0.5	(5) GN / WH	(5) 753 0	(5) V	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 0.35	(7) WH	(7) 615	(7) I	(7) —	(7) Seat Memory Switch Signal 1	(7) 7	(7) 0.35	(7) WH	(7) 615	(7) V	(7) —
(8) 8	(8) 0.35	(8) BU / GN	(8) 614	(8) I	(8) —	(8) Seat Memory Switch Set Signal	(8) 8	(8) 0.35	(8) BU / GN	(8) 614	(8) V	(8) —
9 - 14	—	—	—	—	—	Not Occupied	9 - 14	—	—	—	—	—
(15) 15	(15) 0.75	(15) BN / VT	(15) 20 77	(15) I	(15) —	(15) Driver Seat Heating Element Control	(15) 15	(15) 0.75	(15) BN / VT	(15) 20 77	(15) V	(15) —
(16) 16	(16) 0.75	(16) BN / BK	(16) 20 78	(16) I	(16) —	(16) Driver Seat Heating Element Low Reference	(16) 16	(16) 0.75	(16) BN / BK	(16) 20 78	(16) V	(16) —
(17) 17	(17) 0.5	(17) YE / GY	(17) 20 79	(17) I	(17) —	(17) Driver Seat Heating Temperature Sensor Signal	(17) 17	(17) 0.5	(17) YE / GY	(17) 20 79	(17) V	(17) —
(18) 18	(18) 0.5	(18) BK / YE	(18) 20 80	(18) I	(18) —	(18) Driver Heated Seat Thermistor Low Reference	(18) 18	(18) 0.5	(18) BK / YE	(18) 20 80	(18) V	(18) —
(19) 19	(19) 0.5	(19) BU	(19) 24 25	(19) I	(19) —	(19) Driver Seat Back Heating Temperature Sensor Signal	(19) 19	(19) 0.5	(19) BU	(19) 24 25	(19) V	(19) —
(20) 20	(20) 0.75	(20) BN	(20) 24 32	(20) I	(20) —	(20) Driver Seat Back Heating Element Control	(20) 20	(20) 0.75	(20) BN	(20) 24 32	(20) V	(20) —
21 - 28	—	—	—	—	—	Not Occupied	21 - 28	—	—	—	—	—
(29) 29	(29) 2.5	(29) RD / YE	(29) 50 40	(29) II	(29) —	(29) Battery Positive Voltage	(29) 29	(29) 2.5	(29) RD / YE	(29) 50 40	(29) IV	(29) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
30	—	—	—	—	—	Not Occupied	30	—	—	—	—	—
(31) 31	(31) 0.5	(31) O G / GY	(31) 26 52	(31) I	(31) —	(31) Driver Seat Belt Sensor Signal	(31) 31	(31) 0.35	(31) O G / GY	(31) 26 52	(31) V	(31) —
(32) 32	(32) 0.5	(32) B K / OG	(32) 13 63	(32) I	(32) —	(32) Driver Seat Belt Switch Low Reference	(32) 32	(32) 0.5	(32) B K / OG	(32) 13 63	(32) V	(32) —
33	—	—	—	—	—	Not Occupied	33	—	—	—	—	—
(34) 34	(34) 0.5	(34) B K / OG	(34) 49 63	(34) III	(34) —	(34) Driver Seat Back Air Bag Low Control	(34) 34	(34) 0.5	(34) B K / OG	(34) 49 63	(34) V	(34) —
(35) 35	(35) 0.5	(35) O G / BU	(35) 49 62	(35) III	(35) —	(35) Driver Seat Back Air Bag High Control	(35) 35	(35) 0.5	(35) O G / BU	(35) 49 62	(35) V	(35) —
36 - 40	—	—	—	—	—	Not Occupied	36 - 40	—	—	—	—	—
(41) 41	(41) 0.35	(41) B U / VT	(41) 41 01	(41) I	(41) —	(41) AUTOSA R CAN Bus [+] 4 Serial Data	(41) 41	(41) 0.5	(41) B U / VT	(41) 41 01	(41) V	(41) —
(42) 42	(42) 0.35	(42) WH	(42) 41 00	(42) I	(42) —	(42) AUTOSA R CAN Bus [-] 4 Serial Data	(42) 42	(42) 0.5	(42) WH	(42) 41 00	(42) V	(42) —
43 - 49	—	—	—	—	—	Not Occupied	43 - 49	—	—	—	—	—
(50) 50	(50) 0.35	(50) B U / VT	(50) 41 01	(50) I	(50) —	(50) AUTOSA R CAN Bus [+] 4 Serial Data	(50) 50	(50) 0.5	(50) B U / VT	(50) 41 01	(50) V	(50) —
(51) 51	(51) 0.35	(51) WH	(51) 41 00	(51) I	(51) —	(51) AUTOSA R CAN Bus [-] 4 Serial Data	(51) 51	(51) 0.5	(51) WH	(51) 41 00	(51) V	(51) —
(52) 52	(52) 0.5	(52) G N / VT	(52) 59 06	(52) I	(52) —	(52) Driver Seat Blower Motor Control 1	(52) 52	(52) 0.5	(52) G N / VT	(52) 59 06	(52) V	(52) —
(53) 53	(53) 0.75	(53) V T / WH	(53) 11 39	(53) I	(53) —	(53) Run/ Crank Ignition 1 Voltage	(53) 53	(53) 0.75	(53) V T / WH	(53) 11 39	(53) V	(53) —
54 - 55	—	—	—	—	—	Not Occupied	54 - 55	—	—	—	—	—

X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness



5823852



4993301

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Passenger
- OEM Connector: 35572205
- Service Connector: Service by Harness - See Part Catalog
- Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35588064
- Service Connector: 84727364
- Description: 55-Way M 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-42 (RD)	No Tool Required
III	Not required	No Tool Required	No Tool Required
IV	84847992	J-35616-32 (OG)	J-38125-36
V	84867140	J-35616-13 (BU)	J-38125-215A

X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness

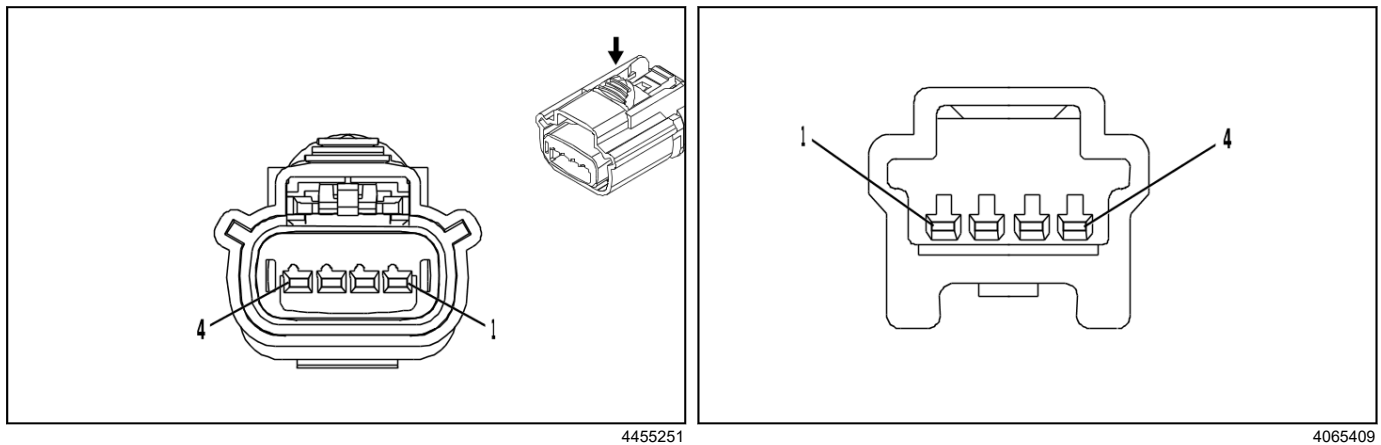
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5 (1) 0.75	(1) BK (1) BK	(1) 1350 (1) 1350	(1) II (1) II	(1) A7K (1) - A7K	(1) Ground (1) Ground	(1) 1	(1) 2.5 (1) 0.75	(1) BK (1) BK	(1) 1350 (1) 1350	(1) IV	(1) —
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
(3) 3	(3) 0.75	(3) RD / GN	(3) 6140	(3) I	(3) —	(3) Battery Positive Voltage	(3) 3	(3) 0.75	(3) RD / GN	(3) 6140	(3) V	(3) —
(4) 4	(4) 0.75 (4) 0.5	(4) RD / BN (4) RD / BN	(4) 2240 (4) 2240	(4) I (4) I	(4) A7K (4) - A7K	(4) Battery Positive Voltage (4) Battery Positive Voltage	(4) 4	(4) 0.5 (4) 0.75	(4) RD / BN (4) RD / BN	(4) 2240 (4) 2240	(4) V	(4) —
(5) 5	(5) 0.75	(5) RD / BN	(5) 6640	(5) I	(5) —	(5) Battery Positive Voltage	(5) 5	(5) 0.75	(5) RD / BN	(5) 6640	(5) V	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(7) 7	(7) 0.5	(7) BU	(7) 4987	(7) I	(7) —	(7) AUTOSAR CAN Bus [+] 1 Serial Data (7) AUTOSAR CAN Bus [+] 1 Serial Data	(7) 7	(7) 0.35 (7) 0.5	(7) BU (7) BU	(7) 4987 (7) 4987	(7) V (7) V	(7) UKL/UGN (7) - UKL-UGN
(8) 8	(8) 0.5	(8) W _H	(8) 4986	(8) I	(8) —	(8) AUTOSAR CAN Bus [-] 1 Serial Data (8) AUTOSAR CAN Bus [-] 1 Serial Data	(8) 8	(8) 0.35 (8) 0.5	(8) W _H (8) W _H	(8) 4986 (8) 4986	(8) V (8) V	(8) UKL/UGN (8) - UKL-UGN
9 - 14	—	—	—	—	—	Not Occupied	9 - 14	—	—	—	—	—
(15) 15	(15) 0.75	(15) B _N / VT	(15) 2077	(15) I	(15) —	(15) Driver Seat Heating Element Control	(15) 15	(15) 0.75	(15) B _N / VT	(15) 2077	(15) V	(15) —
(16) 16	(16) 0.75	(16) B _N / BK	(16) 2078	(16) I	(16) —	(16) Driver Seat Heating Element Low Reference	(16) 16	(16) 0.75	(16) B _N / BK	(16) 2078	(16) V	(16) —
(17) 17	(17) 0.5	(17) Y _E / GY	(17) 2079	(17) I	(17) —	(17) Driver Seat Heating Temperature Sensor Signal	(17) 17	(17) 0.5	(17) Y _E / GY	(17) 2079	(17) V	(17) —
(18) 18	(18) 0.5	(18) B _K / YE	(18) 2080	(18) I	(18) —	(18) Driver Heated Seat Thermistor Low Reference	(18) 18	(18) 0.5	(18) B _K / YE	(18) 2080	(18) V	(18) —
(19) 19	(19) 0.5	(19) B _U	(19) 2425	(19) I	(19) —	(19) Driver Seat Back Heating Temperature Sensor Signal	(19) 19	(19) 0.5	(19) B _U	(19) 2425	(19) V	(19) —
(20) 20	(20) 0.75	(20) B _N	(20) 2432	(20) I	(20) —	(20) Driver Seat Back Heating Element Control	(20) 20	(20) 0.75	(20) B _N	(20) 2432	(20) V	(20) —
(21) 21	(21) 0.5	(21) G _N / VT	(21) 2857	(21) I	(21) —	(21) Body Control Module LIN Bus 11	(21) 21	(21) 0.35	(21) G _N / VT	(21) 2857	(21) V	(21) —
22	—	—	—	—	—	Not Occupied	22	—	—	—	—	—
(23) 23	(23) 0.5	(23) R _D / GN	(23) 4440	(23) I	(23) —	(23) Battery Positive Voltage	(23) 23	(23) 0.5	(23) R _D / GN	(23) 4440	(23) V	(23) —
(24) 24	(24) 0.5	(24) G _Y / OG	(24) 3946	(24) I	(24) —	(24) Passenger Automatic Locking Retractor Switch Low Reference	(24) 24	(24) 0.35	(24) G _Y / OG	(24) 3946	(24) V	(24) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(25) 25	(25) 0.5	(25) O G / BN	(25) 39 47	(25) I	(25) —	(25) Passeng er Automatic Locking Retractor Switch Signal	(25) 25	(25) 0.35	(25) O G / BN	(25) 39 47	(25) V	(25) —
(26) 26	(26) 0.5	(26) B K / WH	(26) 12 51	(26) I	(26) —	(26) Signal Ground	(26) 26	(26) 0.5	(26) B K / WH	(26) 12 51	(26) V	(26) —
27 - 28	—	—	—	—	—	Not Occupied	27 - 28	—	—	—	—	—
(29) 29	(29) 2.5	(29) R D / YE	(29) 74 40	(29) II	(29) —	(29) Battery Positive Volt- age	(29) 29	(29) 2.5	(29) R D / YE	(29) 74 40	(29) IV	(29) —
30	—	—	—	—	—	Not Occupied	30	—	—	—	—	—
(31) 31	(31) 0.5	(31) O G / VT	(31) 13 62	(31) I	(31) —	(31) Passeng er Seat Belt Switch Signal	(31) 31	(31) 0.35	(31) O G / VT	(31) 13 62	(31) V	(31) —
(32) 32	(32) 0.5	(32) B K / OG	(32) 13 63	(32) I	(32) —	(32) Driver Seat Belt Switch Low Reference	(32) 32	(32) 0.5	(32) B K / OG	(32) 13 63	(32) V	(32) —
33	—	—	—	—	—	Not Occupied	33	—	—	—	—	—
(34) 34	(34) 0.5	(34) B U / OG	(34) 49 57	(34) III	(34) —	(34) Passeng er Seat Back Air Bag Low Control	(34) 34	(34) 0.5	(34) B U / OG	(34) 49 57	(34) V	(34) —
(35) 35	(35) 0.5	(35) O G / GY	(35) 49 56	(35) III	(35) —	(35) Passeng er Seat Back Air Bag High Control	(35) 35	(35) 0.5	(35) O G / GY	(35) 49 56	(35) V	(35) —
(36) 36	(36) 0.5	(36) G N / VT	(36) 59 06	(36) I	(36) —	(36) Driver Seat Blower Motor Control 1	(36) 36	(36) 0.5	(36) G N / VT	(36) 59 06	(36) V	(36) —
(37) 37	(37) 0.75	(37) V T / WH	(37) 11 39	(37) I	(37) —	(37) Run/ Crank Ignition 1 Voltage	(37) 37	(37) 0.75	(37) V T / WH	(37) 11 39	(37) V	(37) —
38 - 40	—	—	—	—	—	Not Occupied	38 - 40	—	—	—	—	—
(41) 41	(41) 0.35	(41) B U / VT	(41) 41 01	(41) I	(41) —	(41) AUTOSA R CAN Bus [+] 4 Serial Data	(41) 41	(41) 0.5	(41) B U / VT	(41) 41 01	(41) V	(41) —
(42) 42	(42) 0.35	(42) WH	(42) 41 00	(42) I	(42) —	(42) AUTOSA R CAN Bus [-] 4 Serial Data	(42) 42	(42) 0.5	(42) WH	(42) 41 00	(42) V	(42) —
43 - 49	—	—	—	—	—	Not Occupied	43 - 49	—	—	—	—	—
(50) 50	(50) 0.35	(50) B U / VT	(50) 41 01	(50) I	(50) —	(50) AUTOSA R CAN Bus [+] 4 Serial Data	(50) 50	(50) 0.5	(50) B U / VT	(50) 41 01	(50) V	(50) —
(51) 51	(51) 0.35	(51) WH	(51) 41 00	(51) I	(51) —	(51) AUTOSA R CAN Bus [-] 4 Serial Data	(51) 51	(51) 0.5	(51) WH	(51) 41 00	(51) V	(51) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(52) 52	(52) 0.5	(52) B U	(52) 49 87	(52) I	(52) —	(52) AUTOSAR CAN Bus [+] 1 Serial Data	(52) 52	(52) 0.5	(52) B U	(52) 49 87	(52) V	(52) —
(53) 53	(53) 0.5	(53) WH	(53) 49 86	(53) I	(53) —	(53) AUTOSAR CAN Bus [-] 1 Serial Data	(53) 53	(53) 0.5	(53) WH	(53) 49 86	(53) V	(53) —
54 - 55	—	—	—	—	—	Not Occupied	54 - 55	—	—	—	—	—

X340 Body Wiring Harness to Rear Seat Heater Control Wiring Harness (KA6)



Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 15514524
- Service Connector: 19355605
- Description: 4-Way F 1.5 OCS Series, Sealed(BK)

Connector Part Information

- Harness Type: Rear Seat Heater Control Wiring Harness
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M (BK)

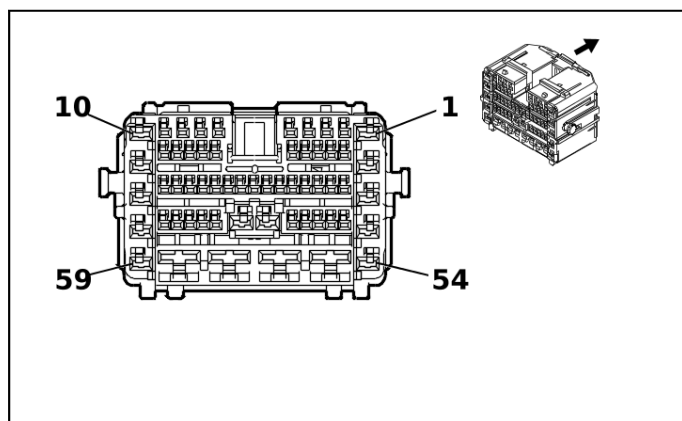
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	No Tool Required	No Tool Required

X340 Body Wiring Harness to Rear Seat Heater Control Wiring Harness (KA6)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) RD / WH	(1) 574 0	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.75	(1) RD / YE	(1) 574 0	(1) II	(1) —
(2) 2	(2) 0.75	(2) RD / BU	(2) 674 0	(2) I	(2) —	(2) Battery Positive Voltage	(2) 2	(2) 0.75	(2) RD / VT	(2) 674 0	(2) II	(2) —
(3) 3	(3) 0.35	(3) G N / VT	(3) 285 7	(3) I	(3) —	(3) Body Control Module LIN Bus 11	(3) 3	(3) 0.35	(3) G N / BU	(3) 285 7	(3) II	(3) —
(4) 4	(4) 1	(4) BK	(4) 155 0	(4) I	(4) —	(4) Ground	(4) 4	(4) 1	(4) BK	(4) 155 0	(4) II	(4) —

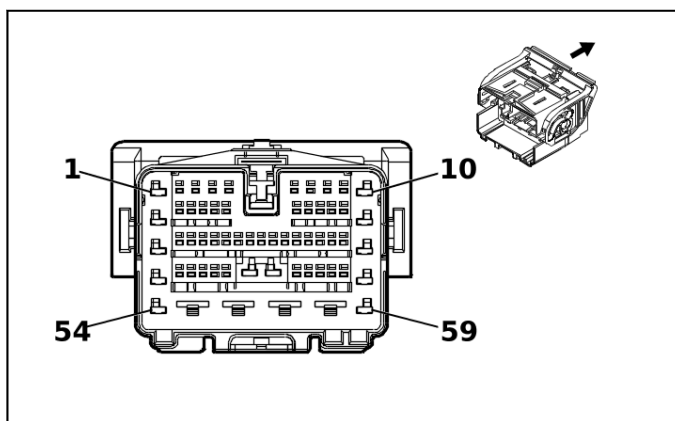
X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOK)



5278767

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 7289-7293-30
- Service Connector: 13528126
- Description: 59-Way F 1.2 MCON, 2.8, 6.3 YESC Series(BK)



5278741

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 7288-7295-30
- Service Connector: 84766292
- Description: 59-Way M 1.2 MCON, 2.8, 6.3 YESC Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19331733	J-35616-12 (BU)	J-38125-553
II	85544080	J-35616-4A (PU)	J-38125-11A
III	Not required	No Tool Required	No Tool Required
IV	13578908	J-35616-5 (PU)	J-38125-11A
V	19330704	J-35616-13 (BU)	J-38125-215A

X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOK)

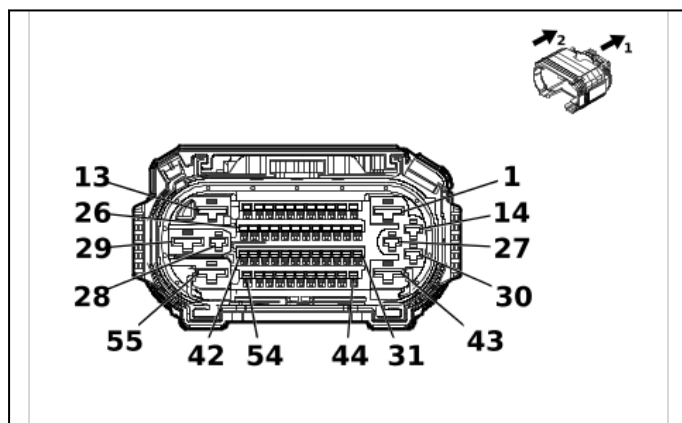
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / YE	(1) 240	(1) II	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / YE	(1) 240	(1) IV	(1) —
(2) 2	(2) 0.35 (2) 0.5	(2) VT / BK (2) VT / BK	(2) 339 (2) 339	(2) I (2) I	(2) (ASV/CE1) - DD8- DRZ- GF2- GF5- GPZ (2) (DD8- GF2- GF5- GPZ) / (DRZ- GF2- GF5- GPZ)	(2) Run/ Crank Ignition 1 Voltage (2) Run/ Crank Ignition 1 Voltage	(2) 2	(2) 0.35 (2) 0.5	(2) VT / BK (2) VT / BK	(2) 339 (2) 339	(2) V (2) V	(2) — (2) —
3	—	—	—	—	—	Not Occupied	3	—	—	—	—	—
(4) 4	(4) 0.35	(4) G N / BN	(4) 3005	(4) III	(4) —	(4) Active Noise Cancellation Microphone 1 Signal	(4) 4	(4) 0.35	(4) G N / BN	(4) 3005	(4) V (4) V	(4) — (4) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(5) 5	(5) 0.35	(5) W H / GY	(5) 300 8	(5) III	(5) —	(5) Active Noise Cancellation Microphone 1 Feedback Signal	(5) 5	(5) 0.35	(5) G N / BK	(5) 300 8	(5) V	(5) —
(6) 6	(6) 0.35	(6) W H / GY	(6) 410 4	(6) III	(6) —	(6) AUTOSAR CAN Bus [-] 8 Serial Data	(6) 6	(6) 0.35	(6) W H / GY	(6) 410 4	(6) V	(6) —
(7) 7	(7) 0.35	(7) BU / GY	(7) 410 5	(7) III	(7) —	(7) AUTOSAR CAN Bus [+] 8 Serial Data	(7) 7	(7) 0.35	(7) BU / GY	(7) 410 5	(7) V	(7) —
(8) 8	(8) 0.35	(8) W H / GY	(8) 410 4	(8) III	(8) —	(8) AUTOSAR CAN Bus [-] 8 Serial Data	(8) 8	(8) 0.5	(8) W H / GY	(8) 410 4	(8) V	(8) —
(9) 9	(9) 0.35	(9) BU / GY	(9) 410 5	(9) III	(9) —	(9) AUTOSAR CAN Bus [+] 8 Serial Data	(9) 9	(9) 0.5	(9) BU / GY	(9) 410 5	(9) V	(9) —
(10) 10	(10) 0.35	(10) Y E / WH	(10) 16 90	(10) II	(10) —	(10) Mirror Dimming Signal	(10) 10	(10) 0.35	(10) Y E / WH	(10) 16 90	(10) IV	(10) —
(11) 11	(11) 0.35	(11) B K / YE	(11) 16 91	(11) II	(11) —	(11) Automatic Day/Night Mirror Low Reference	(11) 11	(11) 0.35	(11) B K / YE	(11) 16 91	(11) IV	(11) —
(12) 12	(12) 0.35	(12) WH	(12) 49 78	(12) I	(12) —	(12) AUTOSAR CAN Bus [-] 2 Serial Data	(12) 12	(12) 0.35	(12) WH / BN	(12) 49 78	(12) V	(12) —
(13) 13	(13) 0.35	(13) B U / YE	(13) 49 79	(13) I	(13) —	(13) AUTOSAR CAN Bus [+] 2 Serial Data	(13) 13	(13) 0.35	(13) B U / YE	(13) 49 79	(13) V	(13) —
(14) 14	(14) 0.35	(14) B K / BN	(14) 65 4	(14) I	(14) —	(14) Cellular Telephone Microphone Low Reference	(14) 14	(14) 0.35	(14) B K / BN	(14) 65 4	(14) V	(14) —
(15) 15	(15) 0.35	(15) B U	(15) 65 5	(15) I	(15) —	(15) Cellular Telephone Microphone Signal	(15) 15	(15) 0.35	(15) B U	(15) 65 5	(15) V	(15) —
(16) 16	(16) 0.35	(16) Y E / VT	(16) 61 91	(16) III	(16) —	(16) Power Rear Window Switch Open Signal	(16) 16	(16) 0.5	(16) Y E / VT	(16) 61 91	(16) V	(16) —
(17) 17	(17) 0.35	(17) WH	(17) 61 92	(17) III	(17) —	(17) Sliding Rear Window Switch Close Signal	(17) 17	(17) 0.5	(17) WH	(17) 61 92	(17) V	(17) —
(18) 18	(18) 0.5	(18) B U / BK	(18) 10 53	(18) I	(18) —	(18) Center High Mounted Stop Lamp Control 3	(18) 18	(18) 0.5	(18) B U / BK	(18) 10 53	(18) V	(18) —
(19) 19	(19) 0.5	(19) WH / VT	(19) 14 30	(19) I	(19) —	(19) Exterior Courtesy Lamp Control	(19) 19	(19) 0.5	(19) WH / VT	(19) 14 30	(19) V	(19) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(20) 20	(20) 0.35	(20) B U / YE	(20) 49 79	(20) I	(20) —	(20) AUTOSAR CAN Bus [+] 2 Serial Data	(20) 20	(20) 0.35	(20) B U / RD	(20) 49 79	(20) V	(20) —
(21) 21	(21) 0.35	(21) WH	(21) 49 78	(21) I	(21) —	(21) AUTOSAR CAN Bus [-] 2 Serial Data	(21) 21	(21) 0.35	(21) WH / BN	(21) 49 78	(21) V	(21) —
(22) 22	(22) 0.5	(22) G N / WH	(22) 24	(22) II	(22) —	(22) Backup Lamp Control	(22) 22	(22) 0.5	(22) G N / WH	(22) 24	(22) IV	(22) —
(23) 23	(23) 0.35	(23) G N / WH	(23) 25 14	(23) II	(23) —	(23) Telematics Switch Signal	(23) 23	(23) 0.35	(23) G N / WH	(23) 25 14	(23) IV	(23) —
(24) 24	(24) 0.35	(24) G N / BK	(24) 25 15	(24) I	(24) —	(24) Telematics Switch Supply Voltage	(24) 24	(24) 0.35	(24) G N / BK	(24) 25 15	(24) V	(24) —
(25) 25	(25) 0.35	(25) Y E / VT	(25) 25 16	(25) I	(25) —	(25) Telematics Switch Green LED Indicator Control	(25) 25	(25) 0.35	(25) Y E / VT	(25) 25 16	(25) V	(25) —
(26) 26	(26) 0.35	(26) B N / WH	(26) 25 17	(26) I	(26) —	(26) Telematics Switch Red LED Indicator Control	(26) 26	(26) 0.35	(26) B N / WH	(26) 25 17	(26) V	(26) —
(27) 27	(27) 0.5	(27) G N / WH	(27) 28 54	(27) I	(27) —	(27) Body Control Module LIN Bus 8	(27) 27	(27) 0.5	(27) G N / WH	(27) 28 54	(27) V	(27) —
(28) 28	(28) 0.5	(28) G N / WH	(28) 41 15	(28) I	(28) —	(28) Body Control Module LIN Bus 5	(28) 28	(28) 0.35	(28) G N / WH	(28) 41 15	(28) V	(28) —
(29) 29	(29) 0.35	(29) V T / YE	(29) 70 43	(29) I	(29) —	(29) Microphone [+] Signal	(29) 29	(29) 0.35	(29) V T / YE	(29) 70 43	(29) V	(29) —
(30) 30	(30) 0.35	(30) B U / BK	(30) 70 44	(30) I	(30) —	(30) Microphone [-] Signal	(30) 30	(30) 0.35	(30) B U / BK	(30) 70 44	(30) V	(30) —
(31) 31	(31) 0.35	(31) Y E	(31) 68 17	(31) I	(31) —	(31) LED Backlight Dimming Control 1	(31) 31	(31) 0.35	(31) Y E	(31) 68 17	(31) V	(31) —
(32) 32	(32) 0.35	(32) V T	(32) 80 1	(32) III	(32) —	(32) Retained Accessory Power Control	(32) 32	(32) 0.5	(32) V T	(32) 80 1	(32) V	(32) —
(33) 33	(33) 0.5	(33) B N / YE	(33) 82 0	(33) III	(33) —	(33) Center High Mounted Stop Lamp Supply Voltage	(33) 33	(33) 0.5	(33) B N / YE	(33) 82 0	(33) V	(33) —
34 - 35	—	—	—	—	—	Not Occupied	34 - 35	—	—	—	—	—
(36) 36	(36) 0.35	(36) B K / WH	(36) 85 1	(36) I	(36) —	(36) Signal Ground	(36) 36	(36) 0.5	(36) B K / WH	(36) 85 1	(36) V	(36) —
37 - 38	—	—	—	—	—	Not Occupied	37 - 38	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(39) 39	(39) 2.5	(39) V T / BU	(39) 10 735	(39) II	(39) —	(39) Upfitter Accessory 5 Supply Volt- age	(39) 39	(39) 2.5	(39) V T / BU	(39) 10 735	(39) IV	(39) —
(40) 40	(40) 2.5	(40) B K	(40) 10 50	(40) II	(40) —	(40) Ground	(40) 40	(40) 2.5	(40) B K	(40) 10 50	(40) IV	(40) —
41 - 52	—	—	—	—	—	Not Occupied	41 - 52	—	—	—	—	—
(53) 53	(53) 2.5	(53) R D / BU	(53) 45 40	(53) III	(53) —	(53) Battery Positive Volt- age	(53) 53	(53) 2.5	(53) R D / BU	(53) 45 40	(53) IV	(53) —
54 - 59	—	—	—	—	—	Not Occupied	54 - 59	—	—	—	—	—

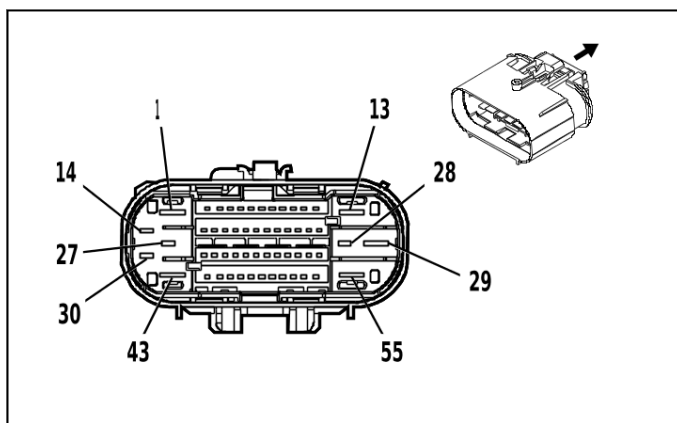
X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOR)



5823852

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 35587201
- Service Connector: 19371185
- Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)



4993301

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35605246
- Service Connector: 84727364
- Description: 55-Way M 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Terminal Part Information

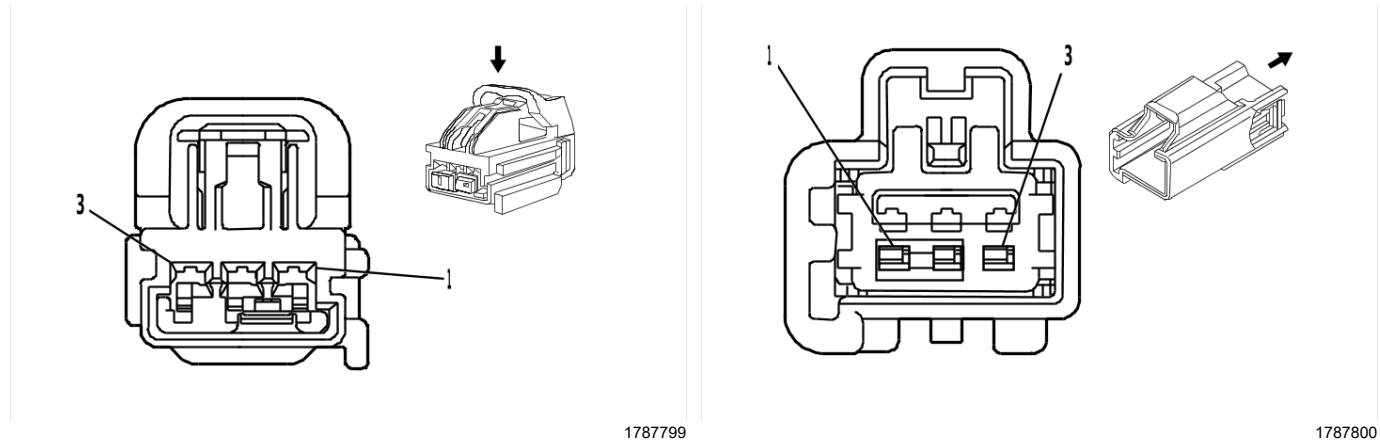
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19332901	J-35616-35 (VT)	J-38125-212
II	19370818	J-35616-12 (BU)	J-38125-215A
III	84634921	J-35616-42 (RD)	J-38125-212
IV	Not required	No Tool Required	No Tool Required
V	84847992	J-35616-32 (OG)	J-38125-36
VI	84867140	J-35616-13 (BU)	J-38125-215A
VII	84992391	J-35616-5 (PU)	J-38125-36
VIII	Not required	No Tool Required	No Tool Required

X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOR)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / YE	(1) 240	(1) III	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / YE	(1) 240	(1) V	(1) —
2 - 3	—	—	—	—	—	Not Occupied	2 - 3	—	—	—	—	—
(4) 4	(4) 0.35 (4) 0.35	(4) W H (4) W H	(4) 497 8 (4) 497 8	(4) IV (4) II	(4) UGN (4) UHY	(4) AUTOSAR CAN Bus [-] 2 Serial Data (4) AUTOSAR CAN Bus [-] 2 Serial Data	(4) 4	(4) 0.35 (4) 0.35	(4) W H / BN (4) W H	(4) 497 8 (4) 497 8	(4) VIII (4) VI	(4) UGN (4) UHY
(5) 5	(5) 0.35	(5) BU / YE	(5) 497 9	(5) II	(5) —	(5) AUTOSAR CAN Bus [+] 2 Serial Data	(5) 5	(5) 0.35	(5) BU / YE	(5) 497 9	(5) VI	(5) —
(6) 6	(6) 0.35	(6) BK / BN	(6) 654	(6) II	(6) —	(6) Cellular Telephone Microphone Low Reference	(6) 6	(6) 0.35	(6) BK / BN	(6) 654	(6) VI	(6) —
(7) 7	(7) 0.35	(7) BU	(7) 655	(7) II	(7) —	(7) Cellular Telephone Microphone Signal	(7) 7	(7) 0.35	(7) BU	(7) 655	(7) VI	(7) —
(8) 8	(8) 0.5	(8) BU / BK	(8) 105 3	(8) II	(8) —	(8) Center High Mounted Stop Lamp Control 3	(8) 8	(8) 0.5	(8) BU / BK	(8) 105 3	(8) VI	(8) —
(9) 9	(9) 0.5	(9) W H / VT	(9) 143 0	(9) II	(9) —	(9) Exterior Courtesy Lamp Control	(9) 9	(9) 0.5	(9) W H / VT	(9) 143 0	(9) VI	(9) —
(10) 10	(10) 0.5	(10) G N / WH	(10) 24	(10) II	(10) —	(10) Backup Lamp Control	(10) 10	(10) 0.5	(10) G N / WH	(10) 24	(10) VI	(10) —
(11) 11	(11) 0.35	(11) G N / WH	(11) 25 14	(11) II	(11) —	(11) Telematics Switch Signal	(11) 11	(11) 0.35	(11) G N / WH	(11) 25 14	(11) VI	(11) —
12 - 13	—	—	—	—	—	Not Occupied	12 - 13	—	—	—	—	—
(14) 14	(14) 0.35	(14) B N / WH	(14) 25 17	(14) I	(14) —	(14) Telematics Switch Red LED Indicator Control	(14) 14	(14) 0.35	(14) B N / WH	(14) 25 17	(14) VII	(14) —
(15) 15	(15) 0.5	(15) G N / WH	(15) 28 54	(15) II	(15) —	(15) Body Control Module LIN Bus 8	(15) 15	(15) 0.5	(15) G N / WH	(15) 28 54	(15) VI	(15) —
16	—	—	—	—	—	Not Occupied	16	—	—	—	—	—
(17) 17	(17) 0.5	(17) B N / YE	(17) 82 0	(17) II	(17) —	(17) Center High Mounted Stop Lamp Supply Voltage	(17) 17	(17) 0.5	(17) B N / YE	(17) 82 0	(17) VI	(17) —
(18) 18	(18) 0.35	(18) Y E / VT	(18) 25 16	(18) II	(18) —	(18) Telematics Switch Green LED Indicator Control	(18) 18	(18) 0.35	(18) Y E / VT	(18) 25 16	(18) VI	(18) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
19	—	—	—	—	—	Not Occupied	19	—	—	—	—	—
(20) 20	(20) 0.35	(20) B K / WH	(20) 85 1	(20) II	(20) —	(20) Signal Ground	(20) 20	(20) 0.5	(20) B K / WH	(20) 85 1	(20) VI	(20) —
(21) 21	(21) 0.5	(21) V T / BK	(21) 33 9	(21) II	(21) —	(21) Run/ Crank Ignition 1 Voltage	(21) 21	(21) 0.5	(21) V T / BK	(21) 33 9	(21) VI	(21) —
22 - 26	—	—	—	—	—	Not Occupied	22 - 26	—	—	—	—	—
(27) 27	(27) 2.5	(27) B K	(27) 10 50	(27) I	(27) —	(27) Ground	(27) 27	(27) 2.5	(27) B K	(27) 10 50	(27) VII	(27) —
(28) 28	(28) 2.5	(28) V T / BU	(28) 10 735	(28) I	(28) —	(28) Upfitter Accessory 5 Supply Volt- age	(28) 28	(28) 2.5	(28) V T / BU	(28) 10 735	(28) VII	(28) —
29 - 44	—	—	—	—	—	Not Occupied	29 - 44	—	—	—	—	—
(45) 45	(45) 0.35	(45) G N / BK	(45) 25 15	(45) II	(45) —	(45) Telemati cs Switch Supply Volt- age	(45) 45	(45) 0.35	(45) G N / BK	(45) 25 15	(45) VI	(45) —
(46) 46	(46) 0.35 (46) 0.35	(46) WH (46) WH	(46) 49 78 (46) 49 78	(46) IV (46) II	(46) - GF2 / - GF5 / - GPZ (46) GF2 / GF5 / GPZ	(46) AUTOSA R CAN Bus [-] 2 Serial Data (46) AUTOSA R CAN Bus [-] 2 Serial Data	(46) 46	(46) 0.35 (46) 0.35	(46) WH / BN (46) WH	(46) 49 78 (46) 49 78	(46) VIII (46) VI	(46) - GF2 / - GF5 / - GPZ (46) GF2 / GF5 / GPZ
(47) 47	(47) 0.35 (47) 0.35	(47) B U / YE (47) B U / YE	(47) 49 79 (47) 49 79	(47) IV (47) II	(47) - GF2 / - GF5 / - GPZ (47) GF2 / GF5 / GPZ	(47) AUTOSA R CAN Bus [+] 2 Serial Data (47) AUTOSA R CAN Bus [+] 2 Serial Data	(47) 47	(47) 0.35 (47) 0.35	(47) B U / RD (47) B U / YE	(47) 49 79 (47) 49 79	(47) VIII (47) VI	(47) - GF2 / - GF5 / - GPZ (47) GF2 / GF5 / GPZ
48 - 55	—	—	—	—	—	Not Occupied	48 - 55	—	—	—	—	—

X371 Dome Lamp Wiring Harness to High Mount Stop Lamp Wiring Harness - Regular Cab



Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 7283-3440-40
- Service Connector: 86825460
- Description: 3-Way F 1.5 Kaizen Series(L-GY)

Connector Part Information

- Harness Type: High Mount Stop Lamp Wiring Harness
- OEM Connector: 7282-3440-40
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way M 1.5 Kaizen Series(L-GY)

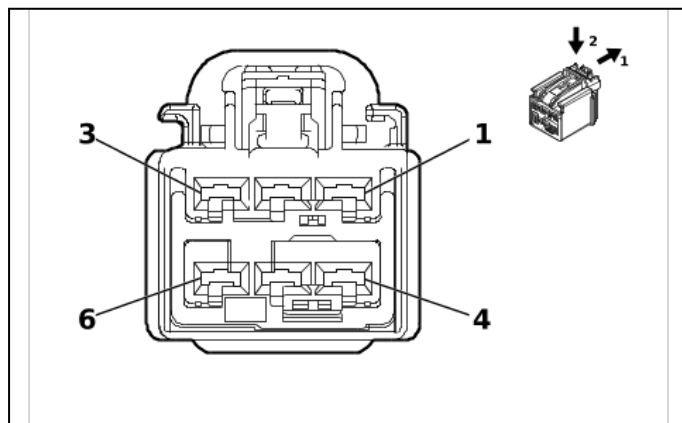
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	No Tool Required	No Tool Required

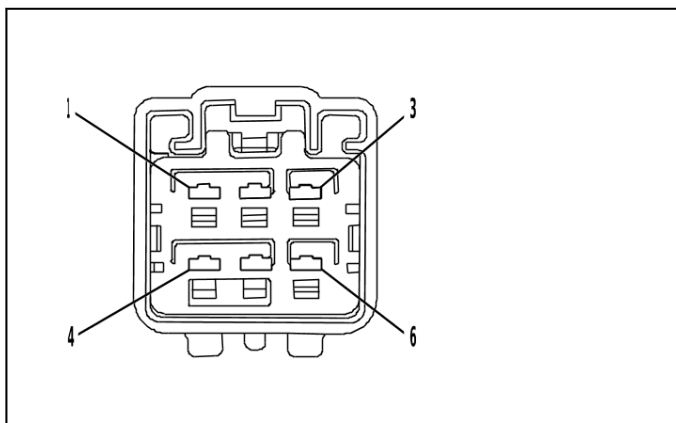
X371 Dome Lamp Wiring Harness to High Mount Stop Lamp Wiring Harness - Regular Cab

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) W H / VT	(1) 143 ₀	(1) I	(1) —	(1) Exterior Courtesy Lamp Control	(1) 1	(1) 1 ₈	(1) BN	(1) 143 ₀	(1) II	(1) —
(2) 2	(2) 0.5	(2) BU / BK	(2) 105 ₃	(2) I	(2) —	(2) Center High Mounted Stop Lamp Control 3	(2) 2	(2) 1 ₈	(2) RD	(2) 105 ₃	(2) II	(2) —
(3) 3	(3) 1	(3) BK	(3) 105 ₀	(3) I	(3) —	(3) Ground	(3) 3	(3) 1 ₈	(3) BK	(3) 105 ₀	(3) II	(3) —

X371 Inside Rearview Mirror Wiring Harness - Jumper to Dome Lamp Wiring Harness - Double Cab / Crew Cab



5757440



1849802

Connector Part Information

- Harness Type: Inside Rearview Mirror Wiring Harness - Jumper
- OEM Connector: 7289-7238-40
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 2.8 YESC Series(GY)

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 7282-6466-40
- Service Connector: 84727361
- Description: 6-Way M Kaizen Series(L-GY)

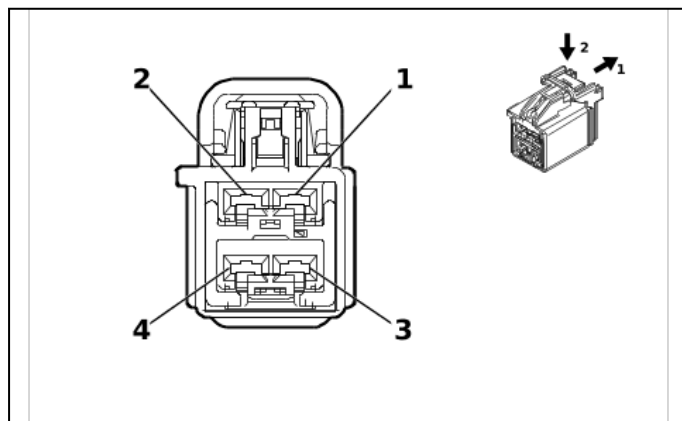
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

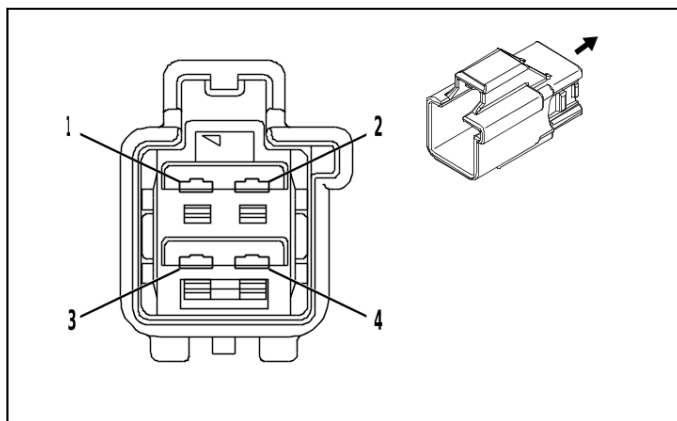
X371 Inside Rearview Mirror Wiring Harness - Jumper to Dome Lamp Wiring Harness - Double Cab / Crew Cab

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) W H / VT	(1) 143 ₀	(1) I	(1) —	(1) Exterior Courtesy Lamp Control	(1) 1	(1) 0.5	(1) W H / VT	(1) 143 ₀	(1) II	(1) —
(2) 2	(2) 0.5	(2) BN / YE	(2) 820	(2) I	(2) —	(2) Center High Mounted Stop Lamp Supply Voltage	(2) 2	(2) 0.5	(2) BN / YE	(2) 820	(2) II	(2) —
(3) 3	(3) 0.5	(3) BK	(3) 105 ₀	(3) I	(3) —	(3) Ground	(3) 3	(3) 1	(3) BK	(3) 105 ₀	(3) II	(3) —
(4) 4	(4) 2.5	(4) BK	(4) 105 ₀	(4) I	(4) —	(4) Ground	(4) 4	(4) 2.5	(4) BK	(4) 105 ₀	(4) II	(4) —
(5) 5	(5) 2.5	(5) VT / BU	(5) 107 ₃₅	(5) I	(5) —	(5) Upfitter Accessory 5 Supply Voltage	(5) 5	(5) 2.5	(5) VT / BU	(5) 107 ₃₅	(5) II	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

X375 Sunroof Wiring Harness to Dome Lamp Wiring Harness (CF5)



5515744



4257143

Connector Part Information

- Harness Type: Sunroof Wiring Harness
- OEM Connector: 7289-7224-40
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 2.8 YESC Series(GY)

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 7282-6446-40
- Service Connector: 89046843
- Description: 4-Way M 2.8 YESC Series(GY)

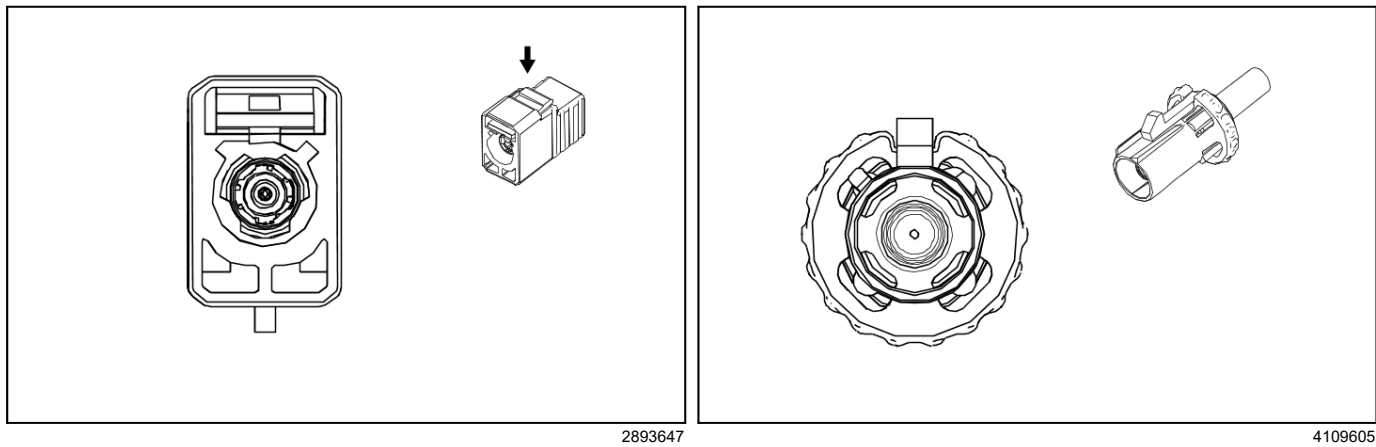
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	No Tool Required	No Tool Required
III	Not required	J-35616-5 (PU)	No Tool Required
IV	Not required	No Tool Required	No Tool Required

X375 Sunroof Wiring Harness to Dome Lamp Wiring Harness (CF5)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BK	(1) 1050	(1) I	(1) CF5	(1) Ground	(1) 1	(1) 2.5	(1) BK	(1) 1050	(1) III	(1) —
(2) 2	(2) 0.5 (2) 0.5 (2) 0.5	(2) GN / WH (2) RD / GY (2) GN / BN	(2) 2854 (2) 2854 (2) 2854	(2) I (2) I (2) II	(2) - CF5 (2) - CF5 (2) CF5	(2) Body Control Module LIN Bus 8 (2) Body Control Module LIN Bus 8 (2) Body Control Module LIN Bus 8	(2) 2	(2) 0.5 (2) 0.5 (2) 0.5	(2) GN / WH (2) GN / WH (2) GN / WH	(2) 2854 (2) 2854 (2) 2854	(2) III (2) IV	(2) - CF5 (2) CF5
3	—	—	—	—	—	Not Occupied	3	—	—	—	—	—
(4) 4	(4) 2.5 (4) 2.5	(4) RD / GY (4) BK / GY	(4) 4540 (4) 4540	(4) I (4) I	(4) CF5 (4) CF5	(4) Battery Positive Voltage (4) Battery Positive Voltage	(4) 4	(4) 2.5	(4) RD / BU	(4) 4540	(4) III	(4) CF5

X381 Rearview Driver Information Camera Rear Closure Coaxial Cable to Inside Rearview Mirror Driver Information Coaxial Cable (DRZ)



- Connector Part Information**

 - Harness Type: Rearview Driver Information Camera Rear Closure Coaxial Cable COAX
 - OEM Connector: 13581683
 - Service Connector: Service by Cable Assembly — See Part Catalog
 - Description: 1-Way F Coax Type(BK)
- Connector Part Information**

 - Harness Type: Inside Rearview Mirror Driver Information Coaxial Cable COAX
 - OEM Connector: 13581672
 - Service Connector: Service by Cable Assembly — See Part Catalog
 - Description: 1-Way M Coax Type(BK)

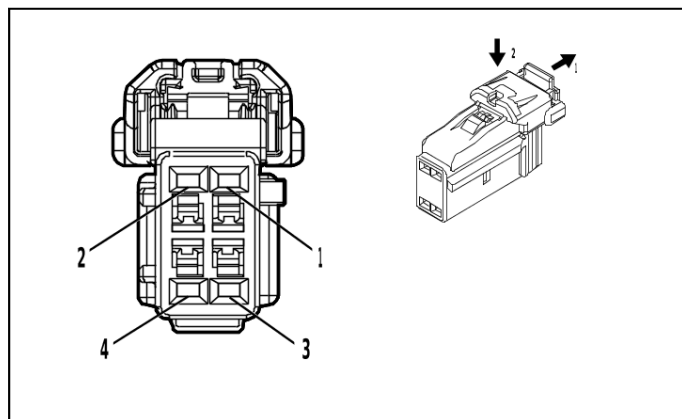
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

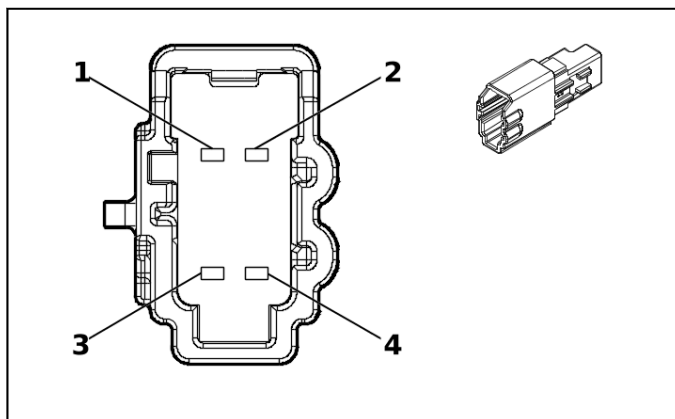
X381 Rearview Driver Information Camera Rear Closure Coaxial Cable to Inside Rearview Mirror Driver Information Coaxial Cable (DRZ)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax Cable	—	I	—	Full Display Mirror Rear Camera Coaxial Video Signal	—	—	Coax Cable	—	I	—

X382 Headlamp Automatic Control Ambient Light Sensor Wiring Harness to Dome Lamp Wiring Harness



4872683



5360963

Connector Part Information

- Harness Type: Headlamp Automatic Control Ambient Light Sensor Wiring Harness
- OEM Connector: 6098-8435
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2 Series(BK)

Connector Part Information

- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 6098-9046
- Service Connector: 84847258
- Description: 4-Way M 1.2 MCON Series(BK)

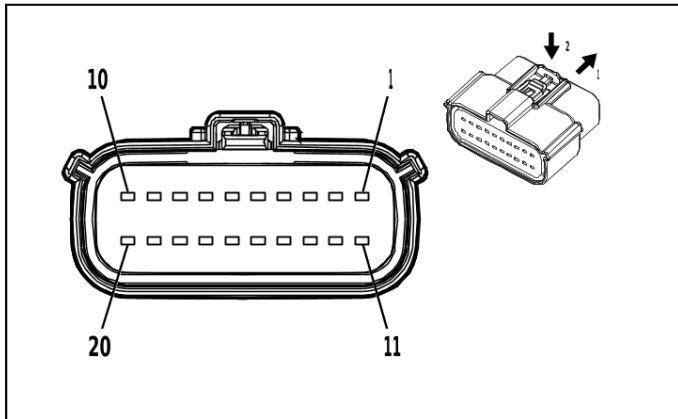
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	No Tool Required	No Tool Required
III	Not required	J-35616-13 (BU)	No Tool Required
IV	Not required	J-35616-17 (L-GN)	No Tool Required
V	Not required	No Tool Required	No Tool Required

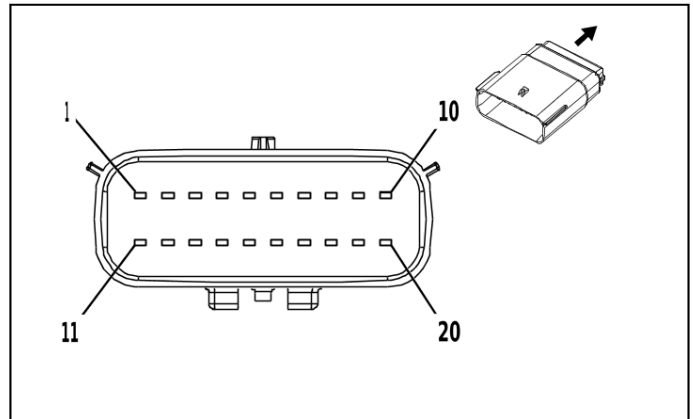
X382 Headlamp Automatic Control Ambient Light Sensor Wiring Harness to Dome Lamp Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.35 (1) 0.35	(1) RD / BK (1) RD / VT	(1) 339 (1) 339	(1) I (1) II	(1) - CE1 (1) CE1	(1) Run/ Crank Ignition 1 Voltage (1) Run/ Crank Ignition 1 Voltage	(1) 1	(1) 0.35 (1) 0.5	(1) VT / BK (1) VT / BK	(1) 339 (1) 339	(1) III (1) V	(1) - CE1 (1) CE1
(2) 2	(2) 0.35 (2) 0.35	(2) BK / WH (2) G N / BN	(2) 851 (2) 851	(2) II (2) I	(2) - CE1 (2) CE1	(2) Signal Ground (2) Signal Ground	(2) 2	(2) 0.5 (2) 0.5	(2) BK / WH (2) BK / WH	(2) 851 (2) 851	(2) V (2) IV	(2) - CE1 (2) CE1
(3) 3	(3) 0.35 (3) 0.35	(3) BK / WH (3) G N / BN	(3) 411 5 (3) 411 5	(3) I (3) II	(3) - CE1 (3) CE1	(3) Body Control Module LIN Bus 5 (3) Body Control Module LIN Bus 5	(3) 3	(3) 0.5 (3) 0.5	(3) G N / WH (3) G N / WH	(3) 411 5 (3) 411 5	(3) IV (3) V	(3) - CE1 (3) CE1
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—

X400 Body Wiring Harness to Chassis Wiring Harness - Double Cab / Crew Cab



4574194



2871861

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35482863
- Service Connector: 19300557
- Description: 20-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 13598210
- Service Connector: 19351705
- Description: 20-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

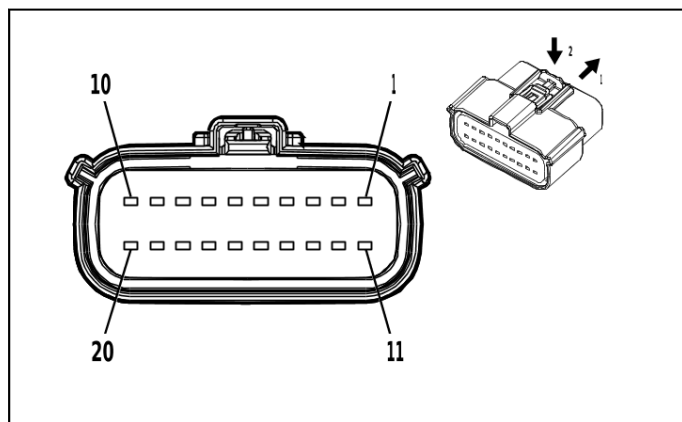
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368973	J-35616-2A (GY)	J-38125-217
II	86800300	J-35616-3 (GY)	J-38125-217

X400 Body Wiring Harness to Chassis Wiring Harness - Double Cab / Crew Cab

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 2	—	—	—	—	—	Not Occupied	1 - 2	—	—	—	—	—
(3) 3	(3) 0.5	(3) W H	(3) 498 6	(3) I	(3) —	(3) AUTOSAR CAN Bus [-] 1 Serial Data	(3) 3	(3) 0.5	(3) W H	(3) 498 6	(3) II	(3) —
(4) 4	(4) 0.5	(4) BU	(4) 498 7	(4) I	(4) —	(4) AUTOSAR CAN Bus [+] 1 Serial Data	(4) 4	(4) 0.5	(4) BU	(4) 498 7	(4) II	(4) —
(5) 5	(5) 0.5	(5) GY	(5) 830	(5) I	(5) —	(5) Left Front Wheel Speed Sensor Signal	(5) 5	(5) 0.5	(5) GY	(5) 830	(5) II	(5) —
(6) 6	(6) 0.5	(6) GY / WH	(6) 706 4	(6) I	(6) —	(6) Left Front Wheel Speed Sensor Control	(6) 6	(6) 0.5	(6) GY / WH	(6) 706 4	(6) II	(6) —
(7) 7	(7) 0.5	(7) YE	(7) 872	(7) I	(7) —	(7) Right Front Wheel Speed Sensor Signal	(7) 7	(7) 0.5	(7) YE	(7) 872	(7) II	(7) —
(8) 8	(8) 0.5	(8) GY / BN	(8) 706 5	(8) I	(8) —	(8) Right Front Wheel Speed Sensor Control	(8) 8	(8) 0.5	(8) GY / BN	(8) 706 5	(8) II	(8) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(9) 9	(9) 0.5	(9) BN / BU	(9) 160 2	(9) I	(9) —	(9) Front Brake Pad Wear Sensor Signal	(9) 9	(9) 0.5	(9) BN / BU	(9) 160 2	(9) II	(9) —
(10) 10	(10) 0.35	(10) G Y	(10) 72 92	(10) I	(10) —	(10) Major Endgate Release Switch Signal Exterior	(10) 10	(10) 0.5	(10) G Y	(10) 72 92	(10) II	(10) —
(11) 11	(11) 0.35	(11) Y E	(11) 72 94	(11) I	(11) —	(11) Minor Endgate Release Switch Discrete Signal Exterior	(11) 11	(11) 0.5	(11) Y E	(11) 72 94	(11) II	(11) —
(12) 12	(12) 0.5	(12) B U / WH	(12) 43 06	(12) I	(12) —	(12) Exhaust Flow Control Valve 1 - Cylinder Deactivation Feedback Signal	(12) 12	(12) 0.5	(12) B U / WH	(12) 43 06	(12) II	(12) —
(13) 13	(13) 0.5	(13) B N / GN	(13) 43 05	(13) I	(13) —	(13) Exhaust Flow Control Valve 1	(13) 13	(13) 0.5	(13) B N / GN	(13) 43 05	(13) II	(13) —
14 - 20	—	—	—	—	—	Not Occupied	14 - 20	—	—	—	—	—

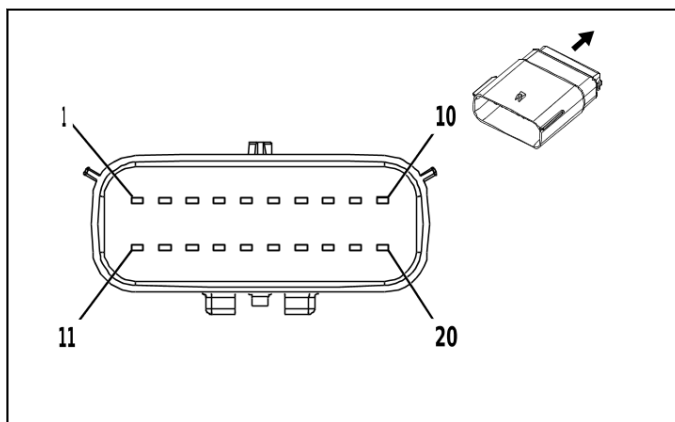
X400 Body Wiring Harness to Chassis Wiring Harness - Regular Cab



4574194

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35602781
- Service Connector: 19300557
- Description: 20-Way F 1.5 MX Series, Sealed(BK)



2871861

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 35554983
- Service Connector: 19351705
- Description: 20-Way M 1.5 MX Series, Sealed(BK)

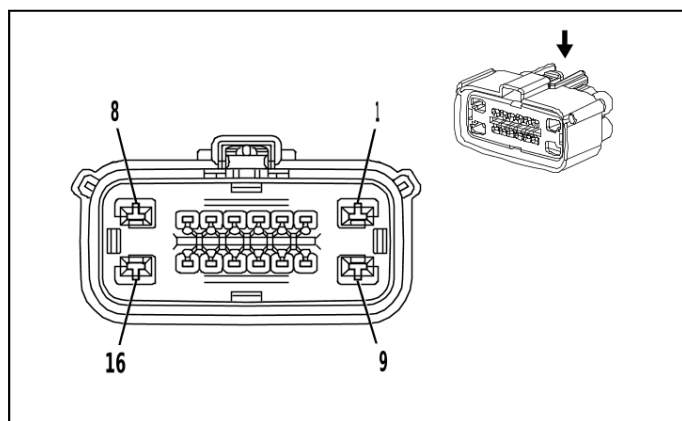
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368973	J-35616-2A (GY)	J-38125-217
II	86800300	J-35616-3 (GY)	J-38125-217

X400 Body Wiring Harness to Chassis Wiring Harness - Regular Cab

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 2	—	—	—	—	—	Not Occupied	1 - 2	—	—	—	—	—
(3) 3	(3) 0.5	(3) W H	(3) 498 6	(3) I	(3) —	(3) AUTOSAR CAN Bus [-] 1 Serial Data	(3) 3	(3) 0.5	(3) W H	(3) 498 6	(3) II	(3) —
(4) 4	(4) 0.5	(4) BU	(4) 498 7	(4) I	(4) —	(4) AUTOSAR CAN Bus [+] 1 Serial Data	(4) 4	(4) 0.5	(4) BU	(4) 498 7	(4) II	(4) —
(5) 5	(5) 0.5	(5) GY	(5) 830	(5) I	(5) —	(5) Left Front Wheel Speed Sensor Signal	(5) 5	(5) 0.5	(5) GY	(5) 830	(5) II	(5) —
(6) 6	(6) 0.5	(6) GY / WH	(6) 706 4	(6) I	(6) —	(6) Left Front Wheel Speed Sensor Control	(6) 6	(6) 0.5	(6) GY / WH	(6) 706 4	(6) II	(6) —
(7) 7	(7) 0.5	(7) YE	(7) 872	(7) I	(7) —	(7) Right Front Wheel Speed Sensor Signal	(7) 7	(7) 0.5	(7) YE	(7) 872	(7) II	(7) —
(8) 8	(8) 0.5	(8) GY / BN	(8) 706 5	(8) I	(8) —	(8) Right Front Wheel Speed Sensor Control	(8) 8	(8) 0.5	(8) GY / BN	(8) 706 5	(8) II	(8) —
(9) 9	(9) 0.5	(9) BN / BU	(9) 160 2	(9) I	(9) —	(9) Front Brake Pad Wear Sensor Signal	(9) 9	(9) 0.5	(9) BN / BU	(9) 160 2	(9) II	(9) —
(10) 10	(10) 0.35	(10) G Y	(10) 72 92	(10) I	(10) —	(10) Major Endgate Release Switch Signal Exterior	(10) 10	(10) 0.5	(10) G Y	(10) 72 92	(10) II	(10) —
(11) 11	(11) 0.35	(11) Y E	(11) 72 94	(11) I	(11) —	(11) Minor Endgate Release Switch Discrete Signal Exterior	(11) 11	(11) 0.5	(11) Y E	(11) 72 94	(11) II	(11) —
12 - 20	—	—	—	—	—	Not Occupied	12 - 20	—	—	—	—	—

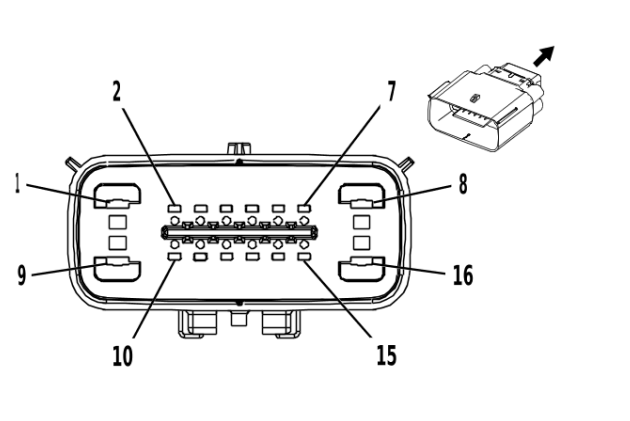
X401 Engine Wiring Harness to Chassis Wiring Harness



3684497

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 34985-1606
- Service Connector: 19352906
- Description: 16-Way F 1.5, 2.8 MX Series, Sealed(BK)



2373686

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 34986-1601
- Service Connector: 19331031
- Description: 16-Way M 1.5, 2.8 MX Series, Sealed(BK)

Terminal Part Information

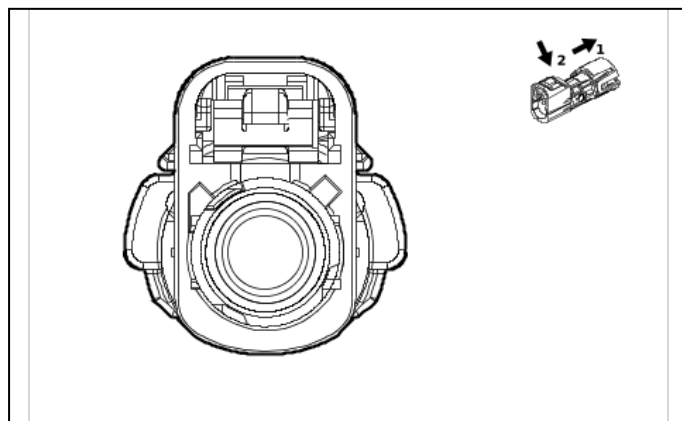
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13576377	J-35616-35 (VT)	J-38125-12A
II	85528055	J-35616-2A (GY)	J-38125-217
III	19366658	J-35616-5 (PU)	J-38125-12A
IV	86800300	J-35616-3 (GY)	J-38125-217

X401 Engine Wiring Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 2	—	—	—	—	—	Not Occupied	1 - 2	—	—	—	—	—
(3) 3	(3) 0.5	(3) G N / GY	(3) 465	(3) II	(3) —	(3) Fuel Pump Primary Relay Control	(3) 3	(3) 0.5	(3) G N / GY	(3) 465	(3) IV	(3) —
(4) 4	(4) 1	(4) BK / WH	(4) 115 1	(4) II	(4) —	(4) Signal Ground	(4) 4	(4) 1	(4) BK / WH	(4) 115 1	(4) IV	(4) —
(5) 5	(5) 1.5	(5) VT / GN	(5) 432 0	(5) II	(5) —	(5) Powertrain Sensor Bus Enable	(5) 5	(5) 1.5	(5) VT / GN	(5) 432 0	(5) IV	(5) —
(6) 6	(6) 0.5	(6) BU / BK	(6) 497 7	(6) II	(6) —	(6) AUTOSAR CAN Bus [+] 3 Serial Data	(6) 6	(6) 0.5	(6) BU / BK	(6) 497 7	(6) IV	(6) —
(7) 7	(7) 0.5	(7) W H	(7) 497 6	(7) II	(7) —	(7) AUTOSAR CAN Bus [-] 3 Serial Data	(7) 7	(7) 0.5	(7) W H	(7) 497 6	(7) IV	(7) —
(8) 8	(8) 0.5	(8) BU / RD	(8) 460	(8) I	(8) —	(8) Engine Control Sensors 5 Volt Reference 1	(8) 8	(8) 0.5	(8) BU / RD	(8) 460	(8) III	(8) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(9) 9	(9) 0.5	(9) BN / GN	(9) 430 5	(9) I	(9) —	(9) Exhaust Flow Control Valve 1	(9) 9	(9) 0.5	(9) BN / GN	(9) 430 5	(9) III	(9) —
10	—	—	—	—	—	Not Occupied	10	—	—	—	—	—
(11) 11	(11) 0.75	(11) Y E / BN	(11) 14 20	(11) II	(11) —	(11) Exhaust Restrictor Motor Open Control	(11) 11	(11) 0.75	(11) Y E / BN	(11) 14 20	(11) IV	(11) —
(12) 12	(12) 0.75	(12) B N	(12) 14 21	(12) II	(12) —	(12) Exhaust Restrictor Motor Closed Control	(12) 12	(12) 0.75	(12) B N	(12) 14 21	(12) IV	(12) —
(13) 13	(13) 0.5	(13) B K / YE	(13) 54 8	(13) II	(13) —	(13) Engine Control Sensors Low Reference 1	(13) 13	(13) 0.5	(13) B K / YE	(13) 54 8	(13) IV	(13) —
(14) 14	(14) 0.5	(14) B U / BK	(14) 49 77	(14) II	(14) —	(14) AUTOSAR CAN Bus [+] 3 Serial Data	(14) 14	(14) 0.5	(14) B U / BK	(14) 49 77	(14) IV	(14) —
(15) 15	(15) 0.5	(15) WH	(15) 49 76	(15) II	(15) —	(15) AUTOSAR CAN Bus [-] 3 Serial Data	(15) 15	(15) 0.5	(15) WH	(15) 49 76	(15) IV	(15) —
16	—	—	—	—	—	Not Occupied	16	—	—	—	—	—

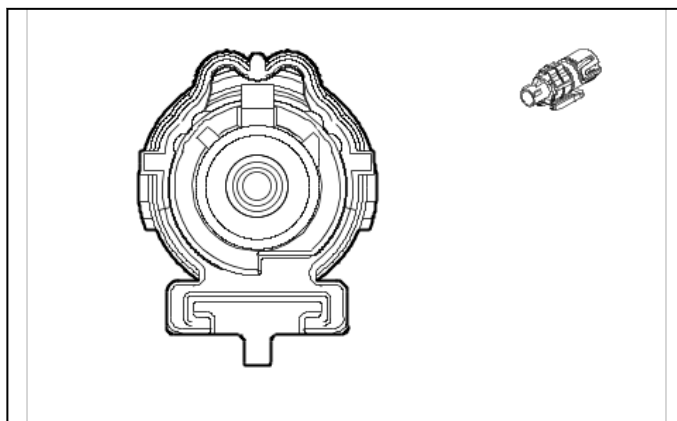
X402A Body Wiring Harness to Chassis Wiring Harness



5810829

Connector Part Information

- Harness Type: Body Wiring Harness COAX
- OEM Connector: 35187033
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(WH)



5757466

Connector Part Information

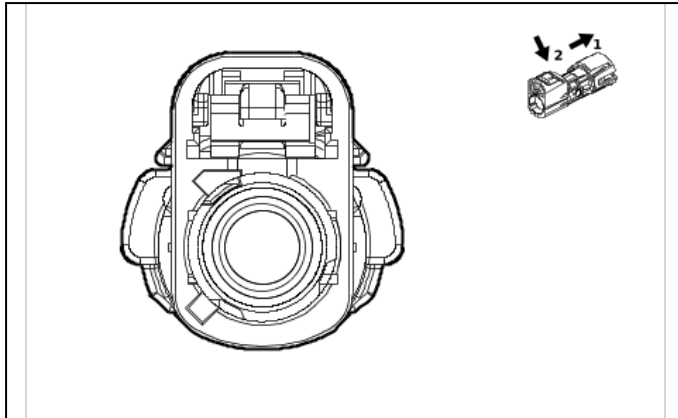
- Harness Type: Chassis Wiring Harness COAX
- OEM Connector: 33338240
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way M Coax Type, Sealed(WH)

Terminal Part Information

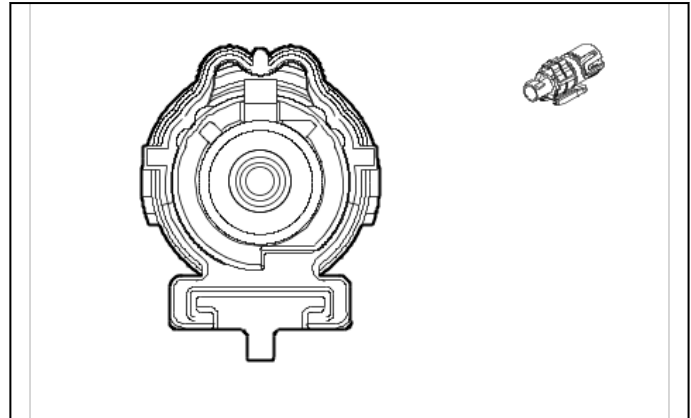
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X402A Body Wiring Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax Cable	—	I	—	Trailer 2 Rear Vision Camera Coaxial Video Signal	—	—	Coax Cable	—	I	—

X402B Body Wiring Harness to Chassis Wiring Harness

5810838



5758019

Connector Part Information

- Harness Type: Body Wiring Harness COAX
- OEM Connector: 35187037
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BN)

Connector Part Information

- Harness Type: Chassis Wiring Harness COAX
- OEM Connector: 33338239
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way M Coax Type, Sealed(BK)

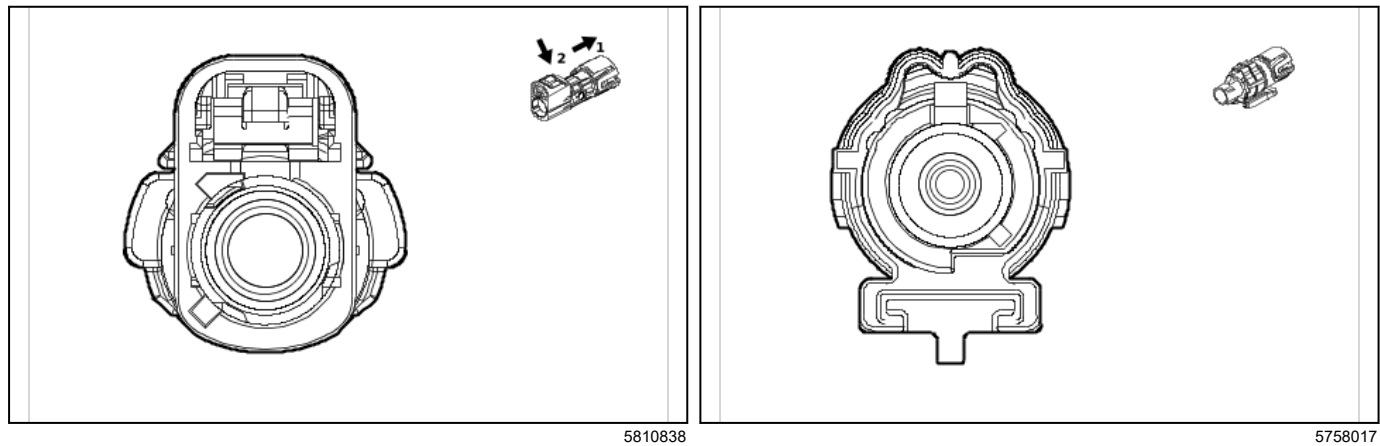
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X402B Body Wiring Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax Cable	—	I	—	Rear Vision Camera Coaxial Video Signal	—	—	Coax Cable	—	I	—

X402C Body Wiring Harness to Chassis Wiring Harness



- Connector Part Information**
- Harness Type: Body Wiring Harness COAX
 - OEM Connector: 35187037
 - Service Connector: Service by Cable Assembly — See Part Catalog
 - Description: 1-Way F Coax Type(BN)

- Connector Part Information**
- Harness Type: Chassis Wiring Harness COAX
 - OEM Connector: 33338245
 - Service Connector: Service by Cable Assembly — See Part Catalog
 - Description: 1-Way M Coax Type, Sealed(BN)

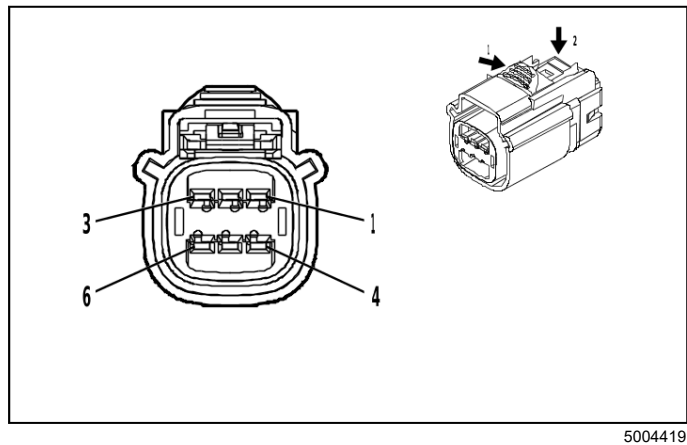
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X402C Body Wiring Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax Cable	—	I	—	Rear Vision Camera Coaxial Video Signal	—	—	Coax Cable	—	I	—

X403 Chassis Wiring Harness to Power Steering Wiring Harness Extension Harness - Double Cab / Crew Cab



- Connector Part Information**
- Harness Type: Chassis Wiring Harness
 - OEM Connector: 35325491
 - Service Connector: 84999473
 - Description: 6-Way F 1.5 OCS Series, Sealed(BK)

- Connector Part Information**
- Harness Type: Power Steering Wiring Harness Extension Harness
 - OEM Connector: Not Available
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 6-Way M (BK)

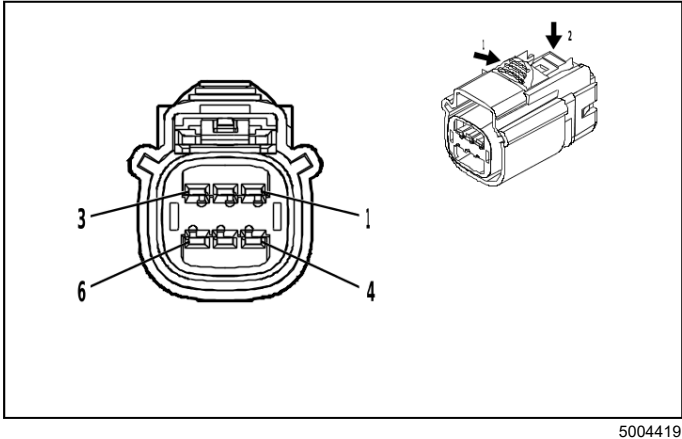
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	No Tool Required	No Tool Required

X403 Chassis Wiring Harness to Power Steering Wiring Harness Extension Harness - Double Cab / Crew Cab

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU	(1) 4987	(1) I	(1) —	(1) AUTOSAR CAN Bus [+] 1 Serial Data	(1) 1	(1) 0.5	(1) WH / BU	(1) 4987	(1) II	(1) —
2 - 5	—	—	—	—	—	Not Occupied	2 - 5	—	—	—	—	—
(6) 6	(6) 0.5	(6) WH	(6) 4986	(6) I	(6) —	(6) AUTOSAR CAN Bus [-] 1 Serial Data	(6) 6	(6) 0.5	(6) BU / WH	(6) 4986	(6) II	(6) —

X403 Chassis Wiring Harness to Power Steering Wiring Harness Extension Harness - Regular Cab



- Connector Part Information**
- Harness Type: Chassis Wiring Harness
 - OEM Connector: 15513504
 - Service Connector: 84999473
 - Description: 6-Way F 1.5 OCS Series, Sealed(BK)

- Connector Part Information**
- Harness Type: Power Steering Wiring Harness Extension Harness
 - OEM Connector: Not Available
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 6-Way M (BK)

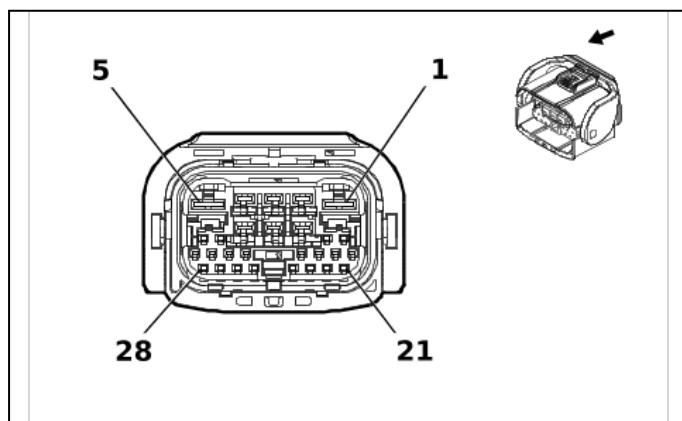
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	No Tool Required	No Tool Required

X403 Chassis Wiring Harness to Power Steering Wiring Harness Extension Harness - Regular Cab

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU	(1) 4987	(1) I	(1) —	(1) AUTOSAR CAN Bus [+] 1 Serial Data	(1) 1	(1) 0.5	(1) WH / BU	(1) 4987	(1) II	(1) —
2 - 5	—	—	—	—	—	Not Occupied	2 - 5	—	—	—	—	—
(6) 6	(6) 0.5	(6) WH	(6) 4986	(6) I	(6) —	(6) AUTOSAR CAN Bus [-] 1 Serial Data	(6) 6	(6) 0.5	(6) BU / WH	(6) 4986	(6) II	(6) —

X404 Chassis Wiring Harness to Emission Reduction Fluid Tank Reservoir Wire Harness



6572042

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 7298-4827-30
- Service Connector: 85761013
- Description: 28-Way F 1.2 MLK, 2.8, 6.3 YESC Series(BK)

Connector Part Information

- Harness Type: Emission Reduction Fluid Tank Reservoir Wire Harness
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 28-Way M (BK)

Terminal Part Information

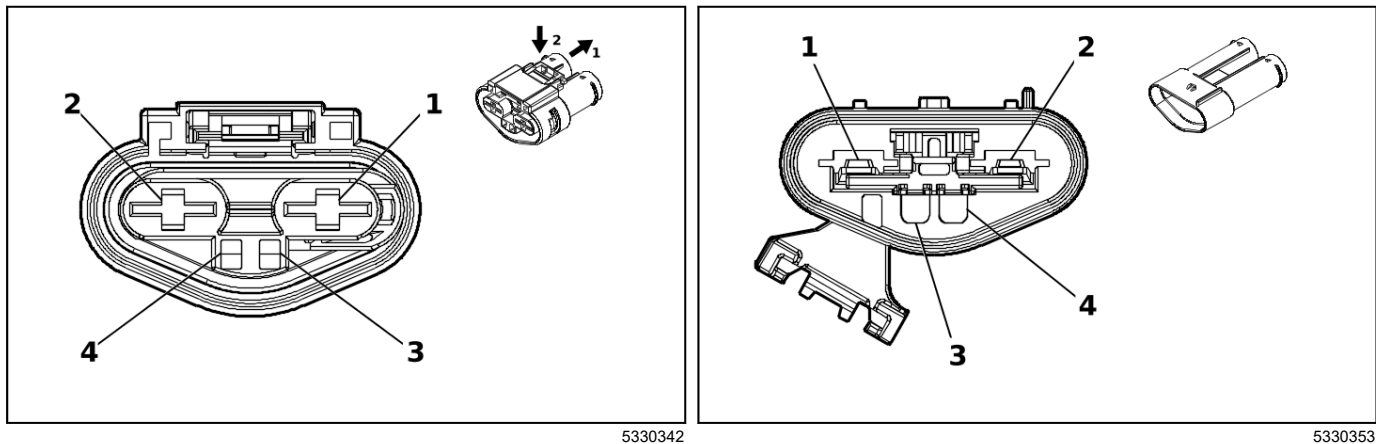
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575383	J-35616-42 (RD)	J-38125-11A
II	19368324	J-35616-35 (VT)	J-38125-11A
III	85669160	J-35616-12 (BU)	J-38125-215A
IV	Not required	No Tool Required	No Tool Required
V	Not required	No Tool Required	No Tool Required

X404 Chassis Wiring Harness to Emission Reduction Fluid Tank Reservoir Wire Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) RD / WH	(1) 204 ₀	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 2.5	(1) RD / WH	(1) 204 ₀	(1) V	(1) —
(2) 2	(2) 1.5	(2) RD	(2) 344 ₀	(2) IV	(2) —	(2) Battery Positive Voltage	(2) 2	(2) 1.5	(2) RD / WH	(2) 344 ₀	(2) V	(2) —
3 - 4	—	—	—	—	—	Not Occupied	3 - 4	—	—	—	—	—
(5) 5	(5) 3	(5) BK	(5) 165 ₀	(5) I	(5) —	(5) Ground	(5) 5	(5) 3	(5) BK	(5) 165 ₀	(5) V	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 1 (7) 1.5	(7) BK (7) RD / WH	(7) 165 ₀ (7) 344 ₀	(7) IV (7) II	(7) FHX (7) LZ0	(7) Ground (7) Battery Positive Voltage	(7) 7	(7) 1 (7) 1.5	(7) BK (7) RD / WH	(7) 165 ₀ (7) 344 ₀	(7) V (7) V	(7) FHX (7) LZ0
(8) 8	(8) 2.5	(8) W H	(8) 165 ₀	(8) IV	(8) —	(8) Ground	(8) 8	(8) 2.5	(8) BK	(8) 165 ₀	(8) V	(8) —
9 - 10	—	—	—	—	—	Not Occupied	9 - 10	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(11) 11	(11) 0.5	(11) B U	(11) 49 77	(11) IV	(11) —	(11) AUTOSAR CAN Bus [+] 3 Serial Data	(11) 11	(11) 0.5	(11) B U / BK	(11) 49 77	(11) V	(11) —
(12) 12	(12) 0.5	(12) B N	(12) 49 76	(12) IV	(12) —	(12) AUTOSAR CAN Bus [-] 3 Serial Data	(12) 12	(12) 0.5	(12) WH	(12) 49 76	(12) V	(12) —
13 - 14	—	—	—	—	—	Not Occupied	13 - 14	—	—	—	—	—
(15) 15	(15) 0.5	(15) B N / WH	(15) 63 9	(15) III	(15) —	(15) Run/ Crank Ignition 1 Voltage	(15) 15	(15) 0.5	(15) V T / WH	(15) 63 9	(15) V	(15) —
(16) 16	(16) 0.5	(16) B U / BK	(16) 49 77	(16) III	(16) —	(16) AUTOSAR CAN Bus [+] 3 Serial Data	(16) 16	(16) 0.5	(16) B U / BK	(16) 49 77	(16) V	(16) —
(17) 17	(17) 0.5	(17) B U / BK	(17) 49 77	(17) III	(17) —	(17) AUTOSAR CAN Bus [+] 3 Serial Data	(17) 17	(17) 0.5	(17) B U / BK	(17) 49 77	(17) V	(17) —
18 - 21	—	—	—	—	—	Not Occupied	18 - 21	—	—	—	—	—
(22) 22	(22) 0.5	(22) B U	(22) 49 77	(22) IV	(22) —	(22) AUTOSAR CAN Bus [+] 3 Serial Data	(22) 22	(22) 0.5	(22) B U / BK	(22) 49 77	(22) V	(22) —
(23) 23	(23) 0.5	(23) B N	(23) 49 76	(23) IV	(23) —	(23) AUTOSAR CAN Bus [-] 3 Serial Data	(23) 23	(23) 0.5	(23) WH	(23) 49 76	(23) V	(23) —
(24) 24	(24) 0.5	(24) WH	(24) 49 76	(24) III	(24) —	(24) AUTOSAR CAN Bus [-] 3 Serial Data	(24) 24	(24) 0.5	(24) WH	(24) 49 76	(24) V	(24) —
(25) 25	(25) 0.5	(25) WH	(25) 63 9	(25) III	(25) —	(25) Run/ Crank Ignition 1 Voltage	(25) 25	(25) 0.5	(25) V T / WH	(25) 63 9	(25) V	(25) —
26 - 28	—	—	—	—	—	Not Occupied	26 - 28	—	—	—	—	—

X405 Power Steering Wiring Harness to Power Steering Control Module Wiring Harness



Connector Part Information

- Harness Type: Power Steering Wiring Harness
- OEM Connector: 13508902
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 2.8, 12 MAK Series, Sealed(BK)

Connector Part Information

- Harness Type: Power Steering Control Module Wiring Harness
- OEM Connector: 13582138
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 2.8, 12 MAK Series, Sealed(BK)

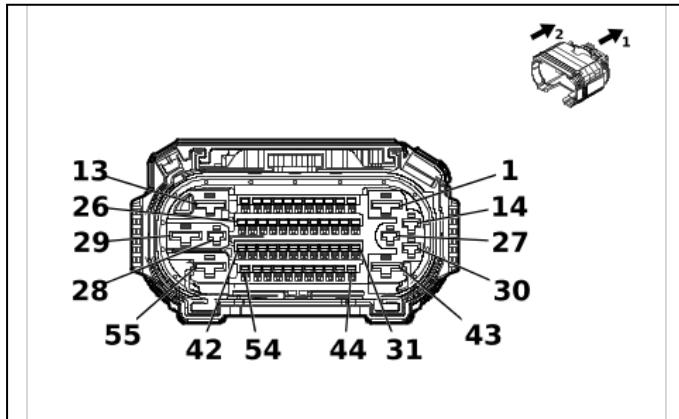
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	No Tool Required	No Tool Required

X405 Power Steering Wiring Harness to Power Steering Control Module Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2 5	(1) BK	(1) 350	(1) I	(1) —	(1) Ground	(1) 1	(1) 2 0	(1) BK	(1) 350	(1) II	(1) —
(2) 2	(2) 2 5	(2) RD /VT	(2) 354 2	(2) I	(2) —	(2) Battery Positive Volt- age	(2) 2	(2) 2 0	(2) RD	(2) 354 2	(2) II	(2) —
3 - 4	—	—	—	—	—	Not Occupied	3 - 4	—	—	—	—	—

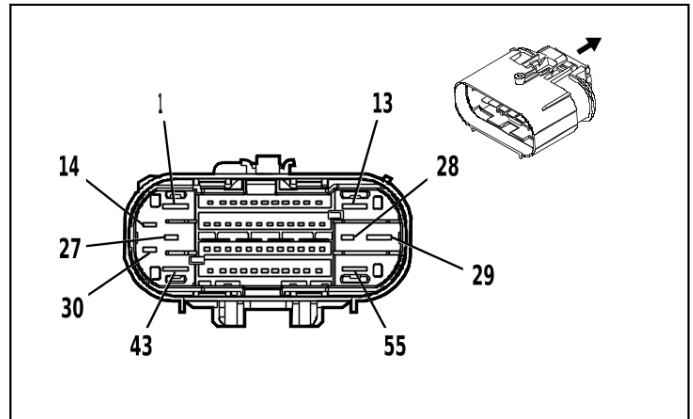
X410 Chassis Wiring Harness to Body Wiring Harness



5823852

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 35588033
- Service Connector: 19371185
- Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)



4993301

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35588063
- Service Connector: 84727364
- Description: 55-Way M 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19332901	J-35616-35 (VT)	J-38125-212
II	19370818	J-35616-12 (BU)	J-38125-215A
III	84634921	J-35616-42 (RD)	J-38125-212
IV	84847992	J-35616-32 (OG)	J-38125-36
V	84867140	J-35616-13 (BU)	J-38125-215A
VI	84992391	J-35616-5 (PU)	J-38125-36

X410 Chassis Wiring Harness to Body Wiring Harness

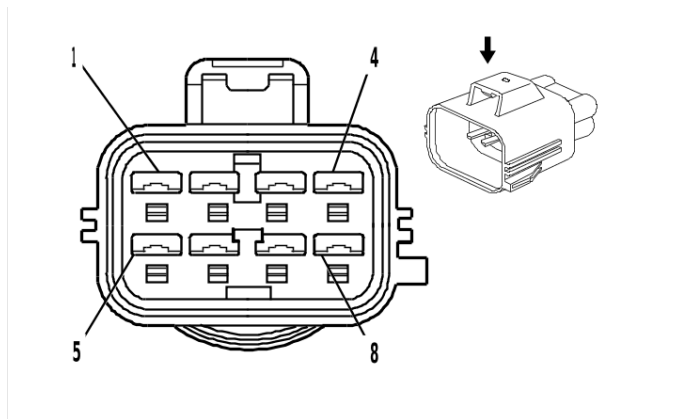
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 5	(1) G N / VT	(1) 198 8	(1) III	(1) —	(1) Right Park Brake Motor Apply Control	(1) 1	(1) 2. 5	(1) G N / VT	(1) 198 8	(1) IV	(1) —
(2) 2	(2) 0. 75	(2) BU / VT	(2) 133 5	(2) II	(2) —	(2) Right Rear Turn Signal Lamp Control 2	(2) 2	(2) 0. 75	(2) BU / VT	(2) 133 5	(2) V	(2) —
(3) 3	(3) 0. 5	(3) YE / GN	(3) 712 2	(3) II	(3) —	(3) Axle Differential Lock Switch Signal	(3) 3	(3) 0. 35	(3) YE / GN	(3) 712 2	(3) V	(3) —
(4) 4	(4) 0. 5	(4) G N / BU	(4) 273 3	(4) II	(4) —	(4) Brake System Control Module LIN Bus 2	(4) 4	(4) 0. 5	(4) G N / BU	(4) 273 3	(4) V	(4) —
(5) 5	(5) 0. 5	(5) BN / GN	(5) 356 8	(5) II	(5) —	(5) Rear Closure Passive Entry Antenna High Signal	(5) 5	(5) 0. 35	(5) BN / GN	(5) 356 8	(5) V	(5) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(6) 6	(6) 0.5	(6) G N / GY	(6) 356 9	(6) II	(6) —	(6) Rear Closure Passive Entry Antenna Low Signal	(6) 6	(6) 0.35	(6) G N / GY	(6) 356 9	(6) V	(6) —
(7) 7	(7) 0.75	(7) BU / WH	(7) 133 4	(7) II	(7) —	(7) Left Rear Turn Signal Lamp Control 2	(7) 7	(7) 0.75	(7) BU / WH	(7) 133 4	(7) V	(7) —
(8) 8	(8) 0.5	(8) W H / VT	(8) 143 0	(8) II	(8) —	(8) Exterior Courtesy Lamp Control	(8) 8	(8) 0.5	(8) W H / VT	(8) 143 0	(8) V	(8) —
(9) 9	(9) 0.5	(9) G N / YE	(9) 161 6	(9) II	(9) —	(9) Rear Brake Pad Wear Sensor Signal	(9) 9	(9) 0.5	(9) G N / YE	(9) 161 6	(9) V	(9) —
(10) 10	(10) 0.5	(10) WH / BK	(10) 22 23	(10) II	(10) —	(10) Trailer Brake Apply Signal	(10) 10	(10) 0.5	(10) WH / BK	(10) 22 23	(10) V	(10) —
(11) 11	(11) 0.5	(11) G N / YE	(11) 28 62	(11) II	(11) —	(11) Body Control Module LIN Bus 16	(11) 11	(11) 0.35	(11) G N / YE	(11) 28 62	(11) V	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
(13) 13	(13) 5	(13) WH	(13) 20 01	(13) III	(13) —	(13) Left Park Brake Motor Apply Control	(13) 13	(13) 2.5	(13) WH	(13) 20 01	(13) IV	(13) —
(14) 14	(14) 2.5	(14) R D / VT	(14) 44 42	(14) I	(14) —	(14) Primary Fused Battery Positive Voltage	(14) 14	(14) 2.5	(14) R D / VT	(14) 44 42	(14) VI	(14) —
(15) 15	(15) 0.5	(15) B U / YE	(15) 49 79	(15) II	(15) —	(15) AUTOSA R CAN Bus [+] 2 Serial Data	(15) 15	(15) 0.5	(15) B U / YE	(15) 49 79	(15) V	(15) —
(16) 16	(16) 0.5	(16) WH	(16) 49 78	(16) II	(16) —	(16) AUTOSA R CAN Bus [-] 2 Serial Data	(16) 16	(16) 0.5	(16) WH	(16) 49 78	(16) V	(16) —
(17) 17	(17) 0.5	(17) Y E / WH	(17) 23 77	(17) II	(17) —	(17) Right Rear Middle Parking Assist Sensor Signal	(17) 17	(17) 0.5	(17) Y E / WH	(17) 23 77	(17) V	(17) —
(18) 18	(18) 0.75	(18) B N / BU	(18) 69 93	(18) II	(18) —	(18) Left Rear Park Lamp Control	(18) 18	(18) 0.75	(18) B N / BU	(18) 69 93	(18) V	(18) —
(19) 19	(19) 0.75	(19) WH / BK	(19) 75 44	(19) II	(19) —	(19) Right Rear Turn Signal Lamp Feedback Signal	(19) 19	(19) 0.35	(19) WH / BK	(19) 75 44	(19) V	(19) —
20	—	—	—	—	—	Not Occupied	20	—	—	—	—	—
(21) 21	(21) 0.5	(21) V T	(21) 88 2	(21) II	(21) —	(21) Right Rear Wheel Speed Sensor Signal	(21) 21	(21) 0.5	(21) V T	(21) 88 2	(21) V	(21) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(22) 22	(22) 0.5	(22) G Y / YE	(22) 71 28	(22) II	(22) —	(22) Right Rear Wheel Speed Sensor Control	(22) 22	(22) 0.5	(22) G Y / YE	(22) 71 28	(22) V	(22) —
(23) 23	(23) 0.5	(23) B U	(23) 88 4	(23) II	(23) —	(23) Left Rear Wheel Speed Sensor Signal	(23) 23	(23) 0.5	(23) B U	(23) 88 4	(23) V	(23) —
(24) 24	(24) 0.5	(24) G Y / BK	(24) 71 27	(24) II	(24) —	(24) Left Rear Wheel Speed Sensor Control	(24) 24	(24) 0.5	(24) G Y / BK	(24) 71 27	(24) V	(24) —
(25) 25	(25) 0.5	(25) Y E	(25) 71 15	(25) II	(25) —	(25) Rear Axle Differential Lock Indicator Control	(25) 25	(25) 0.35	(25) Y E	(25) 71 15	(25) V	(25) —
(26) 26	(26) 0.5	(26) B N / YE	(26) 82 0	(26) II	(26) —	(26) Center High Mounted Stop Lamp Supply Volt- age	(26) 26	(26) 0.5	(26) B N / YE	(26) 82 0	(26) V	(26) —
(27) 27	(27) —	(27) —	(27) —	(27) —	(27) —	(27) Ground	(27) 27	(27) 2.5	(27) B K	(27) 15 0	(27) VI	(27) —
(28) 28	(28) 2.5	(28) B U	(28) 47	(28) I	(28) —	(28) Trailer Auxiliary Control	(28) 28	(28) 2	(28) B U	(28) 47	(28) VI	(28) —
(29) 29	(29) 5	(29) G Y / BK	(29) 43 69	(29) III	(29) —	(29) Left Park Brake Motor Low Reference	(29) 29	(29) 2.5	(29) G Y / BK	(29) 43 69	(29) IV	(29) —
(30) 30	(30) 2.5	(30) R D / BN	(30) 36 40	(30) I	(30) —	(30) Battery Positive Volt- age	(30) 30	(30) 2.5	(30) R D / BN	(30) 41 42	(30) VI	(30) —
(31) 31	(31) 0.5	(31) V T / RD	(31) 40 49	(31) II	(31) —	(31) AC Power Outlet Sensor High Reference	(31) 31	(31) 0.5	(31) V T / RD	(31) 40 49	(31) V	(31) —
(32) 32	(32) 0.35	(32) V T / WH	(32) 63 9	(32) II	(32) —	(32) Run/ Crank Ignition 1 Voltage	(32) 32	(32) 0.5	(32) V T / WH	(32) 63 9	(32) V	(32) —
(33) 33	(33) 0.5	(33) G Y / BU	(33) 77 62	(33) II	(33) —	(33) Cargo Lamp Control	(33) 33	(33) 0.5	(33) G Y / BU	(33) 77 62	(33) V	(33) —
(34) 34	(34) 0.5	(34) Y E / BK	(34) 22 24	(34) II	(34) —	(34) Trailer Brake Enable Signal	(34) 34	(34) 0.5	(34) Y E / BK	(34) 22 24	(34) V	(34) —
(35) 35	(35) 0.5	(35) G N / BN	(35) 22 66	(35) II	(35) —	(35) DC/AC Inverter Control 2	(35) 35	(35) 0.5	(35) G N / BN	(35) 22 66	(35) V	(35) —
(36) 36	(36) 0.5	(36) B N / WH	(36) 23 74	(36) II	(36) —	(36) Object Sensor Volt- age Reference	(36) 36	(36) 0.5	(36) B N / WH	(36) 23 74	(36) V	(36) —
(37) 37	(37) 0.5	(37) Y E	(37) 23 75	(37) II	(37) —	(37) Left Rear Outer Parking Assist Sensor Signal	(37) 37	(37) 0.5	(37) Y E	(37) 23 75	(37) V	(37) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(38) 38	(38) 0.5	(38) Y E / BU	(38) 23 76	(38) II	(38) —	(38) Left Rear Middle Parking Assist Sensor Signal	(38) 38	(38) 0.5	(38) Y E / BU	(38) 23 76	(38) V	(38) —
(39) 39	(39) 0.5	(39) WH	(39) 49 78	(39) II	(39) —	(39) AUTOSAR CAN Bus [-] 2 Serial Data	(39) 39	(39) 0.35	(39) WH	(39) 49 78	(39) V	(39) —
(40) 40	(40) 0.5	(40) Y E / VT	(40) 23 78	(40) II	(40) —	(40) Right Rear Outer Parking Assist Sensor Signal	(40) 40	(40) 0.5	(40) Y E / VT	(40) 23 78	(40) V	(40) —
(41) 41	(41) 0.5	(41) B K / GY	(41) 23 79	(41) II	(41) —	(41) Object Sensor Low Reference	(41) 41	(41) 0.5	(41) B K / GY	(41) 23 79	(41) V	(41) —
(42) 42	(42) 0.5	(42) G N / WH	(42) 24	(42) II	(42) —	(42) Backup Lamp Control	(42) 42	(42) 0.5	(42) G N / WH	(42) 24	(42) V	(42) —
(43) 43	(43) 5	(43) G Y	(43) 43 68	(43) III	(43) —	(43) Right Park Brake Motor Low Reference	(43) 43	(43) 2.5	(43) G Y	(43) 43 68	(43) IV	(43) —
(44) 44	(44) 0.75	(44) B K / WH	(44) 10 120	(44) II	(44) —	(44) AC Outlet 2 Phase A Control	(44) 44	(44) 0.75	(44) B K / WH	(44) 10 120	(44) V	(44) KC9 / KCA
(45) 45	(45) 0.75	(45) R D / WH	(45) 10 121	(45) II	(45) —	(45) AC Outlet 2 Phase B Control	(45) 45	(45) 0.75	(45) R D / WH	(45) 10 121	(45) V	(45) —
(46) 46	(46) 0.35	(46) B N	(46) 10 119	(46) II	(46) —	(46) AC Outlet 2 Low Reference	(46) 46	(46) 0.35	(46) B N	(46) 10 119	(46) V	(46) —
(47) 47	(47) 0.5	(47) V T / GN	(47) 43 20	(47) II	(47) —	(47) Powertrain Sensor Bus Enable	(47) 47	(47) 0.5	(47) V T / GN	(47) 43 20	(47) V	(47) —
(48) 48	(48) 0.5	(48) V T / GY	(48) 71 17	(48) II	(48) —	(48) Front Axle Differential Lock Indicator Control	(48) 48	(48) 0.35	(48) V T / GY	(48) 71 17	(48) V	(48) —
(49) 49	(49) 0.5	(49) G N / GY	(49) 46 5	(49) II	(49) —	(49) Fuel Pump Primary Relay Control	(49) 49	(49) 0.5	(49) G N / GY	(49) 46 5	(49) V	(49) —
50	—	—	—	—	—	Not Occupied	50	—	—	—	—	—
(51) 51	(51) 0.75	(51) WH / VT	(51) 65 67	(51) II	(51) —	(51) Rear Turn Signal Lamp Feedback Signal	(51) 51	(51) 0.35	(51) WH / VT	(51) 65 67	(51) V	(51) —
(52) 52	(52) 0.5	(52) G N / YE	(52) 68 46	(52) II	(52) —	(52) Rear License Plate Lamp Control	(52) 52	(52) 0.5	(52) G N / YE	(52) 68 46	(52) V	(52) —
(53) 53	(53) 0.5	(53) B U / YE	(53) 49 79	(53) II	(53) —	(53) AUTOSAR CAN Bus [+] 2 Serial Data	(53) 53	(53) 0.35	(53) B U / YE	(53) 49 79	(53) V	(53) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(54) 54	(54) 0.75	(54) B N / GY	(54) 69 95	(54) II	(54) —	(54) Right Rear Park Lamp Control	(54) 54	(54) 0.75	(54) B N / GY	(54) 69 95	(54) V	(54) —
(55) 55	(55) —	(55) —	(55) —	(55) —	(55) —	(55) Battery Positive Voltage	(55) 55	(55) 6	(55) R D / WH	(55) 16 42	(55) IV	(55) —

X412 Assist Wire Jumper - Left to Chassis Wiring Harness (BRS)

1856785

Connector Part Information

- Harness Type: Assist Wire Jumper - Left
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 7282-5574-10
- Service Connector: 19367561
- Description: 8-Way M 2.8 YESC Series, Sealed(D-GY)

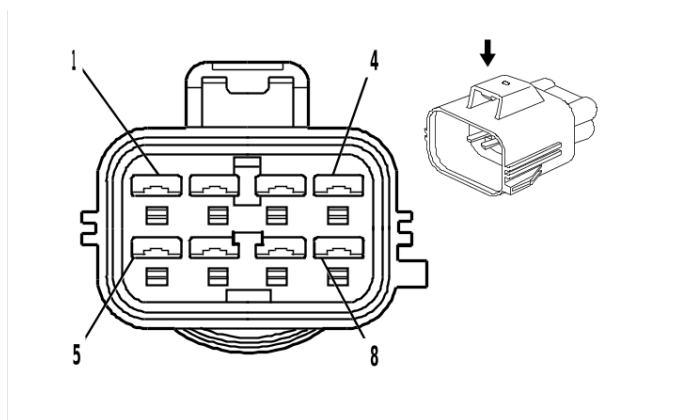
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

X412 Assist Wire Jumper - Left to Chassis Wiring Harness (BRS)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2	(1) YE	(1) 747 2	(1) I	(1) —	(1) Left Running Board Step Motor Control Retract	(1) 1	(1) 2	(1) GY	(1) 747 2	(1) II	(1) —
(2) 2	(2) 0.5	(2) O G / WH	(2) 746 8	(2) I	(2) —	(2) Left Running Board Step Motor Hall Sensor 5V Reference	(2) 2	(2) 0.5	(2) VT / RD	(2) 746 8	(2) II	(2) —
(3) 3	(3) 0.5	(3) YE / WH	(3) 746 7	(3) I	(3) —	(3) Left Running Board Step Motor Hall Sensor Signal	(3) 3	(3) 0.5	(3) YE	(3) 746 7	(3) II	(3) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(4) 4	(4) 0. 5	(4) BN / WH	(4) 746 6	(4) I	(4) —	(4) Left Running Board Step Motor Hall Sensor Low Reference	(4) 4	(4) 0. 5	(4) YE / BN	(4) 746 6	(4) II	(4) —
(5) 5	(5) 2	(5) W H / BN	(5) 747 1	(5) I	(5) —	(5) Left Running Board Step Motor Control Extend	(5) 5	(5) 2	(5) W H / BN	(5) 747 1	(5) II	(5) —
(7) 7	(7) 0. 5	(7) RD	(7) 474 6	(7) I	(7) —	(7) Running Board Step Left Kick Switch Signal	(7) 7	(7) 0. 5	(7) BU / GN	(7) 474 6	(7) II	(7) —
(8) 8	(8) 0. 5	(8) BK	(8) 115 1	(8) I	(8) —	(8) Signal Ground	(8) 8	(8) 0. 5	(8) BK / WH	(8) 115 1	(8) II	(8) —

X413 Assist Step Wire Jumper - Right to Chassis Wiring Harness (BRS)

1856785

Connector Part Information

- Harness Type: Assist Step Wire Jumper - Right
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F

Connector Part Information

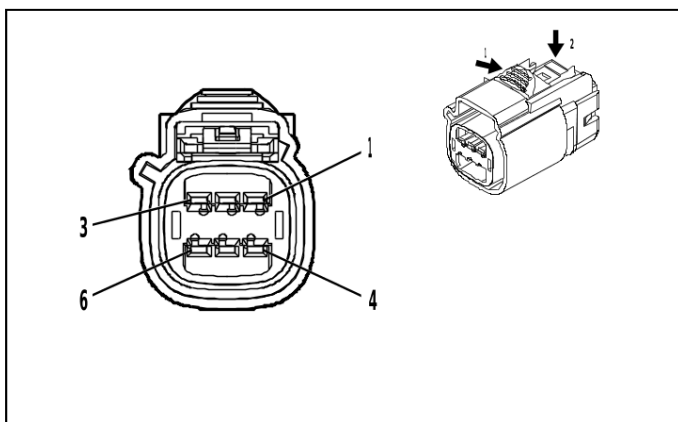
- Harness Type: Chassis Wiring Harness
- OEM Connector: 7282-5574-10
- Service Connector: 19367561
- Description: 8-Way M 2.8 YESC Series, Sealed(D-GY)

Terminal Part Information

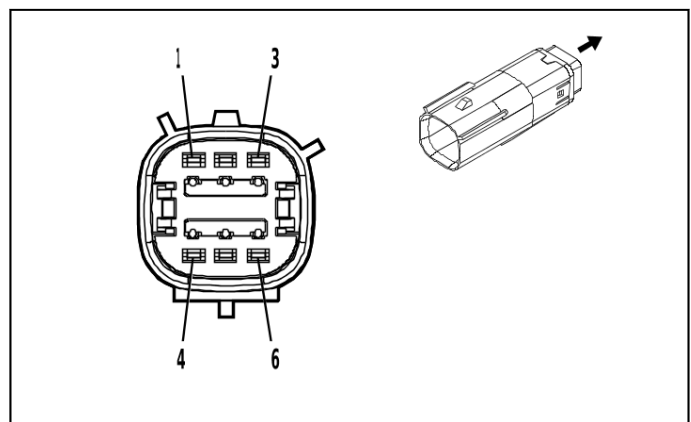
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

X413 Assist Step Wire Jumper - Right to Chassis Wiring Harness (BRS)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2	(1) YE	(1) 746 ₉	(1) I	(1) —	(1) Right Left Running Board Step Motor Control Retract	(1) 1	(1) 2	(1) G _N	(1) 746 ₉	(1) II	(1) —
(2) 2	(2) 0. ₅	(2) O _G / WH	(2) 746 ₄	(2) I	(2) —	(2) Right Running Board Step Motor Hall Sensor 5V Reference	(2) 2	(2) 0. ₅	(2) G _N / RD	(2) 746 ₄	(2) II	(2) —
(3) 3	(3) 0. ₅	(3) YE / WH	(3) 746 ₅	(3) I	(3) —	(3) Right Running Board Step Motor Hall Sensor Signal	(3) 3	(3) 0. ₅	(3) VT	(3) 746 ₅	(3) II	(3) —
(4) 4	(4) 0. ₅	(4) BN / WH	(4) 746 ₃	(4) I	(4) —	(4) Right Running Board Step Motor Hall Sensor Low Reference	(4) 4	(4) 0. ₅	(4) YE / BK	(4) 746 ₃	(4) II	(4) —
(5) 5	(5) 2	(5) W _H / BN	(5) 747 ₀	(5) I	(5) —	(5) Right Running Board Step Motor Control Extend	(5) 5	(5) 2	(5) BU	(5) 747 ₀	(5) II	(5) —
(7) 7	(7) 0. ₅	(7) RD	(7) 474 ₇	(7) I	(7) —	(7) Running Board Step Right Kick Switch Signal	(7) 7	(7) 0. ₅	(7) W _H	(7) 474 ₇	(7) II	(7) —
(8) 8	(8) 0. ₅	(8) BK	(8) 115 ₁	(8) I	(8) —	(8) Signal Ground	(8) 8	(8) 0. ₅	(8) BK / WH	(8) 115 ₁	(8) II	(8) —

X414 Chassis Rear Wiring Harness to Chassis Wiring Harness

4996962



4992963

Connector Part Information

- Harness Type: Chassis Rear Wiring Harness
- OEM Connector: 15513505
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.5 OCS Series, Sealed(GY)

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 15513475
- Service Connector: 19371205
- Description: 6-Way M 1.5 OCS Series, Sealed(GY)

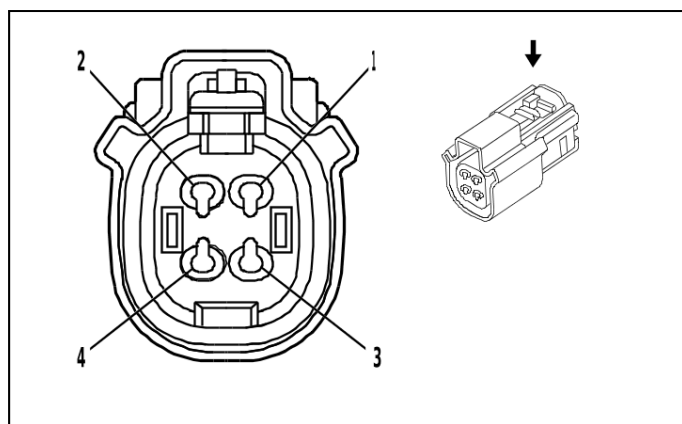
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

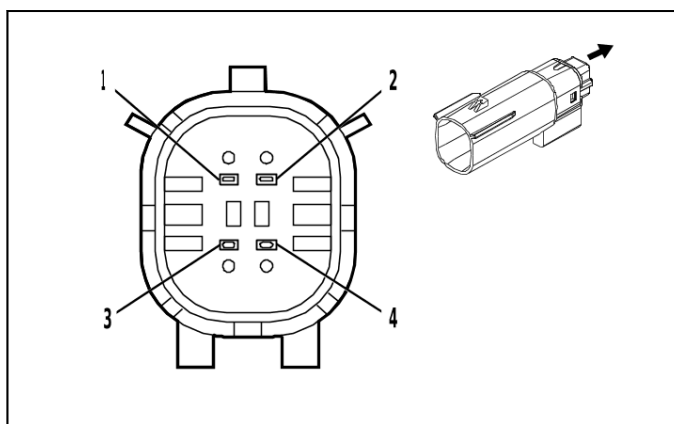
X414 Chassis Rear Wiring Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK / WH	(1) 101 ₂₀	(1) I	(1) —	(1) AC Outlet 2 Phase A Control (1) AC Outlet 2 Phase A Control	(1) 1	(1) 0.75	(1) BK / WH	(1) 101 ₂₀	(1) II	(1) —
(2) 2	(2) 0.5	(2) BN	(2) 101 ₁₉	(2) I	(2) —	(2) AC Outlet 2 Low Reference	(2) 2	(2) 0.5	(2) BN	(2) 101 ₁₉	(2) II	(2) —
(3) 3	(3) 0.5	(3) VT / RD	(3) 404 ₉	(3) I	(3) —	(3) AC Power Outlet Sensor High Reference	(3) 3	(3) 0.5	(3) VT / RD	(3) 404 ₉	(3) II	(3) —
(4) 4	(4) 0.75	(4) RD / WH	(4) 101 ₂₁	(4) I	(4) —	(4) AC Outlet 2 Phase B Control (4) AC Outlet 2 Phase B Control	(4) 4	(4) 0.75	(4) RD / WH	(4) 101 ₂₁	(4) II	(4) —
(5) 5	(5) 0.5	(5) G N / BN	(5) 226 ₆	(5) I	(5) —	(5) DC/AC Inverter Control 2	(5) 5	(5) 0.5	(5) G N / BN	(5) 226 ₆	(5) II	(5) —
(6) 6	(6) 0.5	(6) BK	(6) 175 ₀	(6) I	(6) —	(6) Ground	(6) 6	(6) 1.5	(6) BK	(6) 175 ₀	(6) II	(6) —

X415 Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness to Engine Wiring Harness (NP0 / NQH)



1960031



2368875

Connector Part Information

- Harness Type: Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness
- OEM Connector: 33472-4006
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 33482-4001
- Service Connector: 84838880
- Description: 4-Way M 1.5 MX Series, Sealed(BK)

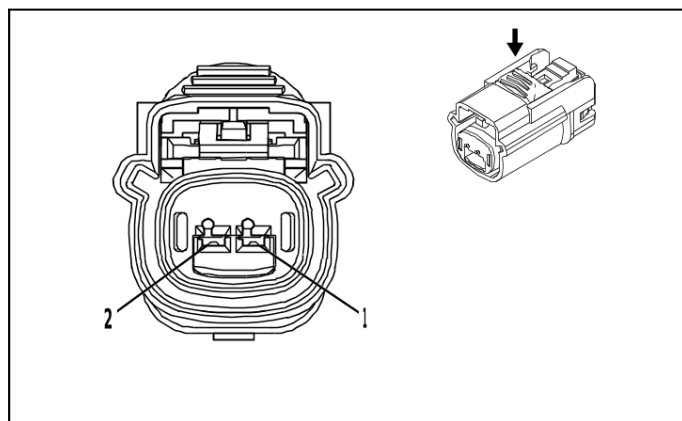
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

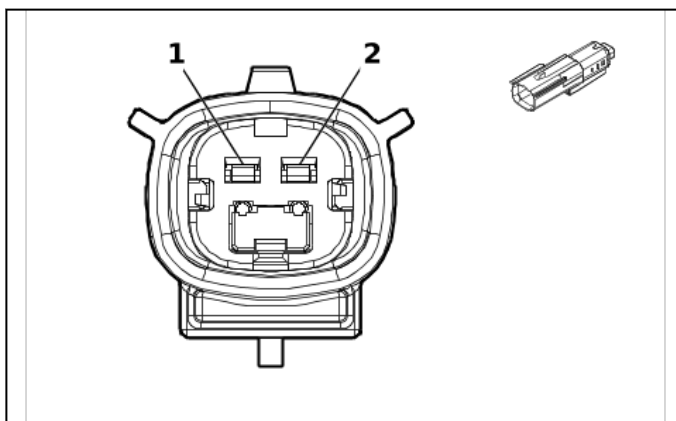
X415 Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness to Engine Wiring Harness (NP0 / NQH)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / BK	(1) 157 ₀	(1) I	(1) —	(1) Front Axle Actuator Control	(1) 1	(1) 0.5	(1) GY / BK	(1) 157 ₀	(1) II	(1) —
(2) 2	(2) 0.5	(2) YE / WH	(2) 169 ₅	(2) I	(2) —	(2) 4WD Locked Range Indicator Control	(2) 2	(2) 0.5	(2) YE / WH	(2) 169 ₅	(2) II	(2) —
(3) 3	(3) 0.5	(3) G _N	(3) 801 ₆	(3) I	(3) —	(3) Secondary Axle Motor Control	(3) 3	(3) 0.5	(3) G _N	(3) 801 ₆	(3) II	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 450	(4) I	(4) —	(4) Ground	(4) 4	(4) 0.75	(4) BK	(4) 450	(4) II	(4) —

X416 Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness to Chassis Wiring Harness (G93)



4332222



5921817

Connector Part Information

- Harness Type: Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness
- OEM Connector: 15514573
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 OCS Series, Sealed(BK)

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 15514550
- Service Connector: 86825463
- Description: 2-Way M 1.5 OCS Series, Sealed(BK)

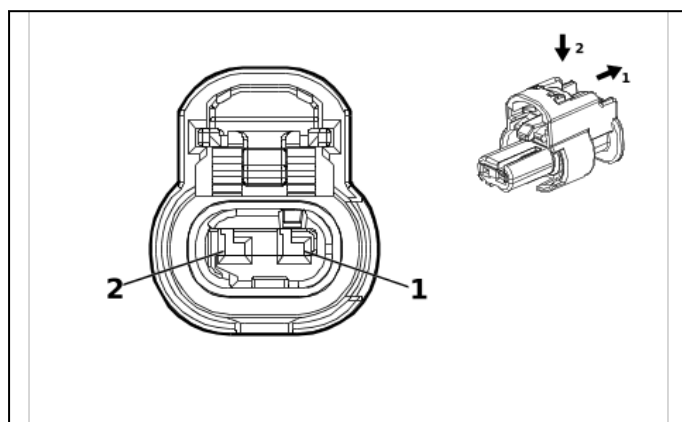
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

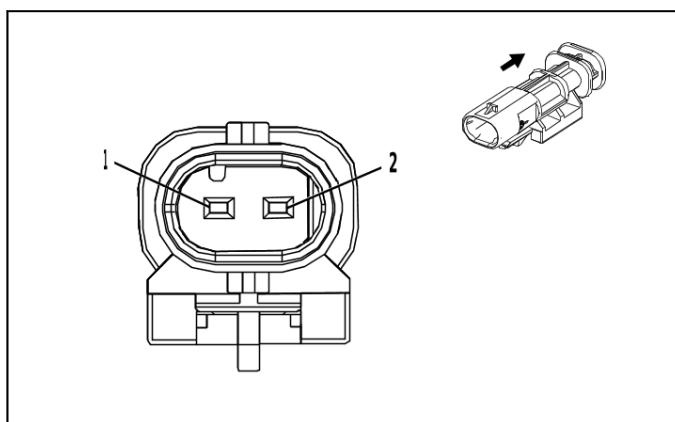
X416 Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness to Chassis Wiring Harness (G93)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) W H / BK	(1) 725 4	(1) I	(1) —	(1) Front Differential Lock Actuator Low Control	(1) 1	(1) 0.75	(1) W H / BK	(1) 725 4	(1) II	(1) —
(2) 2	(2) 0.75	(2) VT / WH	(2) 725 6	(2) I	(2) —	(2) Front Differential Lock Actuator Control	(2) 2	(2) 0.75	(2) VT / WH	(2) 725 6	(2) II	(2) —

X416A Chassis Wiring Harness to Electronic Suspension Strut Wiring Harness Extension Harness (Z45)



4649903



2474755

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 1-2296694-1
- Service Connector: 85761014
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

Connector Part Information

- Harness Type: Electronic Suspension Strut Wiring Harness Extension Harness
- OEM Connector: 2203314-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(BK)

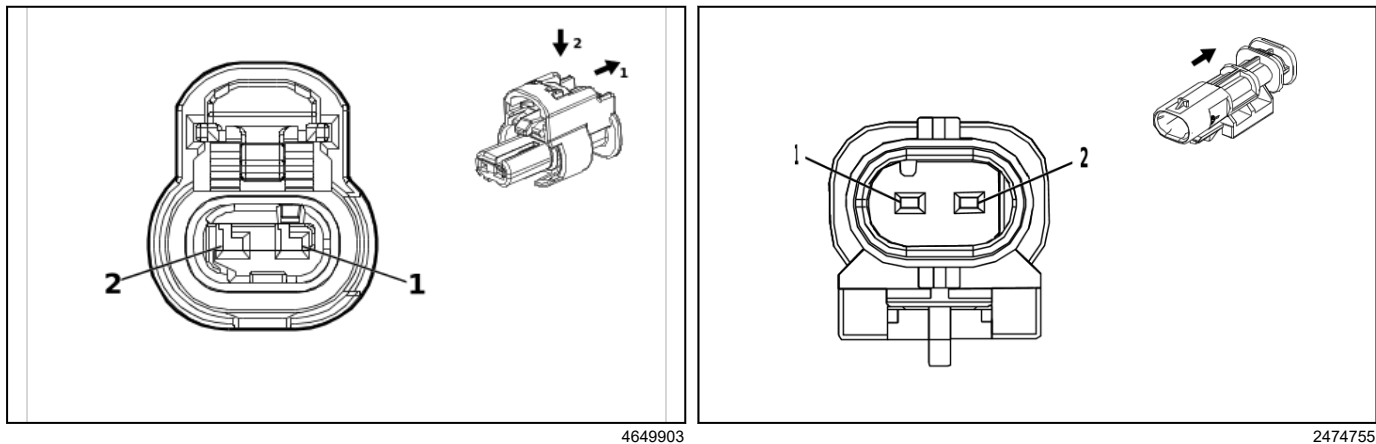
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

X416A Chassis Wiring Harness to Electronic Suspension Strut Wiring Harness Extension Harness (Z45)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / WH	(1) 110 7	(1) I	(1) —	(1) Left Front Shock Absorber Actuator Control	(1) 1	(1) 0.75	(1) BU / WH	(1) 110 7	(1) II	(1) —
(2) 2	(2) 0.75	(2) GY / BU	(2) 111 3	(2) I	(2) —	(2) Left Front Shock Absorber Actuator Control	(2) 2	(2) 0.75	(2) GY	(2) 111 3	(2) II	(2) —

X416B Chassis Wiring Harness to Electronic Suspension Strut Wiring Harness Extension Harness (Z45)



- Connector Part Information**

 - Harness Type: Chassis Wiring Harness
 - OEM Connector: 1-2296694-1
 - Service Connector: 85761014
 - Description: 2-Way F 1.2 MCON Series, Sealed(BK)
- Connector Part Information**

 - Harness Type: Electronic Suspension Strut Wiring Har-
ness Extension Harness
 - OEM Connector: 2203314-1
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 2-Way M 1.2 MCON Series, Sealed(BK)

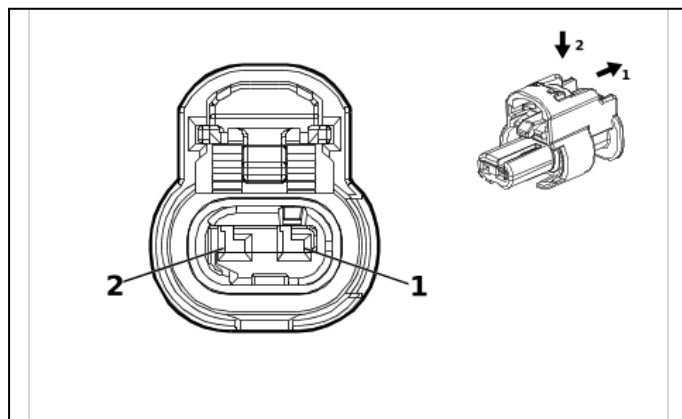
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

X416B Chassis Wiring Harness to Electronic Suspension Strut Wiring Harness Extension Harness (Z45)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / BU	(1) 111 6	(1) I	(1) —	(1) Right Front Shock Absorber Actuator Control	(1) 1	(1) 0.75	(1) BU / WH	(1) 111 6	(1) II	(1) —
(2) 2	(2) 0.75	(2) GY / WH	(2) 111 7	(2) I	(2) —	(2) Right Front Shock Absorber Actuator Control	(2) 2	(2) 0.75	(2) GY	(2) 111 7	(2) II	(2) —

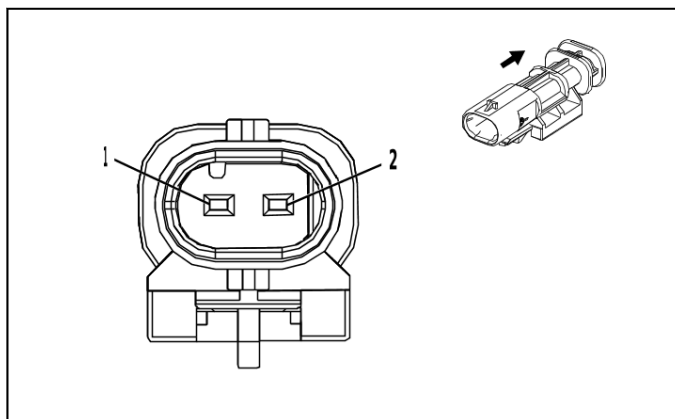
X417 Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness to Front Differential Locking Actuator Jumper Wiring Harness (G93)



4649903

Connector Part Information

- Harness Type: Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness
- OEM Connector: 1-2296694-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)



2474755

Connector Part Information

- Harness Type: Front Differential Locking Actuator Jumper Wiring Harness
- OEM Connector: 13591337
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-13 (BU)	No Tool Required

X417 Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness to Front Differential Locking Actuator Jumper Wiring Harness (G93)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) VT / WH	(1) 725 6	(1) I	(1) —	(1) Front Differential Lock Actuator Control	(1) 1	(1) 0.75	(1) VT / WH	(1) 725 6	(1) II	(1) —
(2) 2	(2) 0.75	(2) W H / BK	(2) 725 4	(2) I	(2) —	(2) Front Differential Lock Actuator Low Control	(2) 2	(2) 0.75	(2) W H / BK	(2) 725 4	(2) II	(2) —

X418 Assist Step Wire Jumper - Left to Assist Step Wire - Left (BRS)

Connector Part Information

- Harness Type: Assist Step Wire Jumper - Left
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F

Connector Part Information

- Harness Type: Assist Step Wire - Left
- OEM Connector: anr88724
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	No Tool Required	No Tool Required

X418 Assist Step Wire Jumper - Left to Assist Step Wire - Left (BRS)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) W _H	(1) 474 ₆	(1) I	(1) —	(1) Running Board Step Left Kick Switch Signal	(1) 1	(1) 0.5	(1) RD	(1) 474 ₆	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 115 ₁	(2) I	(2) —	(2) Signal Ground	(2) 2	(2) 0.5	(2) BK	(2) 115 ₁	(2) II	(2) —

X419 Assist Step Wire Jumper - Right to Assist Step Wire - Right (BRS)

Connector Part Information

- Harness Type: Assist Step Wire Jumper - Right
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F

Connector Part Information

- Harness Type: Assist Step Wire - Right
- OEM Connector: anr88724
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M

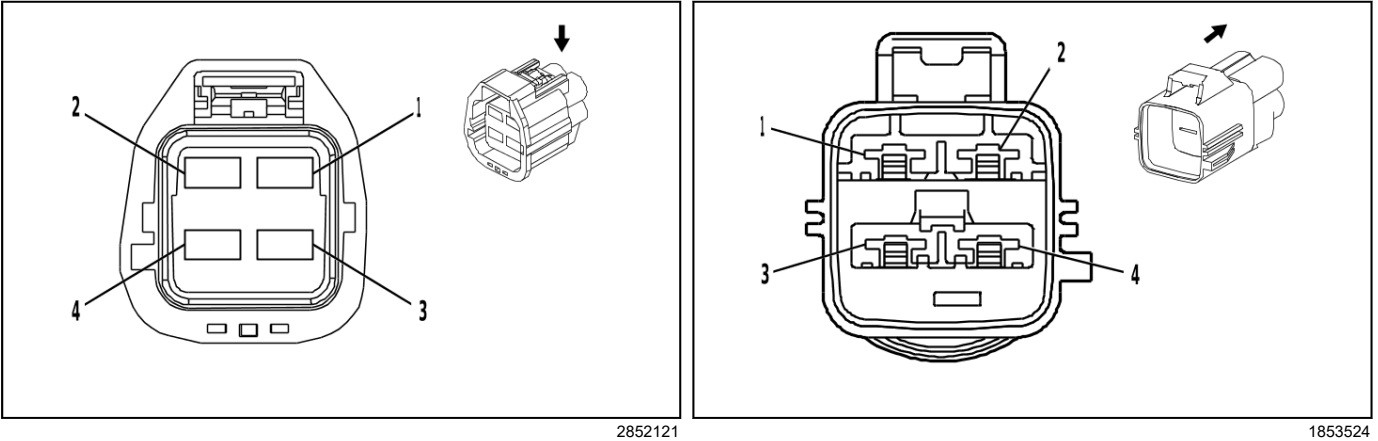
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	No Tool Required	No Tool Required

X419 Assist Step Wire Jumper - Right to Assist Step Wire - Right (BRS)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) W _H	(1) 474 ₇	(1) I	(1) —	(1) Running Board Step Right Kick Switch Signal	(1) 1	(1) 0.5	(1) RD	(1) 474 ₇	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 115 ₁	(2) I	(2) —	(2) Signal Ground	(2) 2	(2) 0.5	(2) BK	(2) 115 ₁	(2) II	(2) —

X420A Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness



Connector Part Information

- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 7283-3601-10
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 6.3 Series, Sealed(GY)

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 7288-3029-10
- Service Connector: 19371198
- Description: 4-Way M 6.3 Series, Sealed(GY)

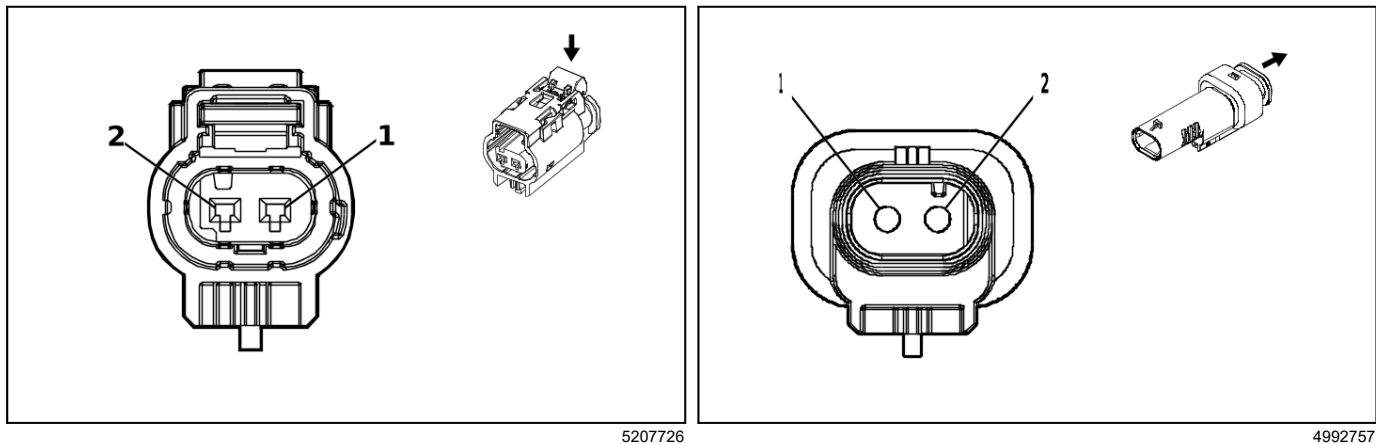
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required
II	Not required	No Tool Required	No Tool Required

X420A Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) W _H	(1) 200 ₁	(1) I	(1) —	(1) Left Park Brake Motor Apply Control	(1) 1	(1) 5	(1) W _H	(1) 200 ₁	(1) II	(1) —
(2) 2	(2) 2.5	(2) GY / BK	(2) 436 ₉	(2) I	(2) —	(2) Left Park Brake Motor Low Reference	(2) 2	(2) 5	(2) GY / BK	(2) 436 ₉	(2) II	(2) —
(3) 3	(3) 2.5	(3) G _N / VT	(3) 198 ₈	(3) I	(3) —	(3) Right Park Brake Motor Apply Control	(3) 3	(3) 5	(3) G _N / VT	(3) 198 ₈	(3) II	(3) —
(4) 4	(4) 2.5	(4) GY	(4) 436 ₈	(4) I	(4) —	(4) Right Park Brake Motor Low Reference	(4) 4	(4) 5	(4) GY	(4) 436 ₈	(4) II	(4) —

X420B Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness (- Z45)



- Connector Part Information**

 - Harness Type: Chassis Rear Wiring Harness Extension Harness
 - OEM Connector: 10094237
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 2-Way F 1.2 Multilock Series, Sealed(GY)
- Connector Part Information**

 - Harness Type: Chassis Wiring Harness
 - OEM Connector: 10094251
 - Service Connector: 19371200
 - Description: 2-Way M 1.2 MLK Series, Sealed(GY)

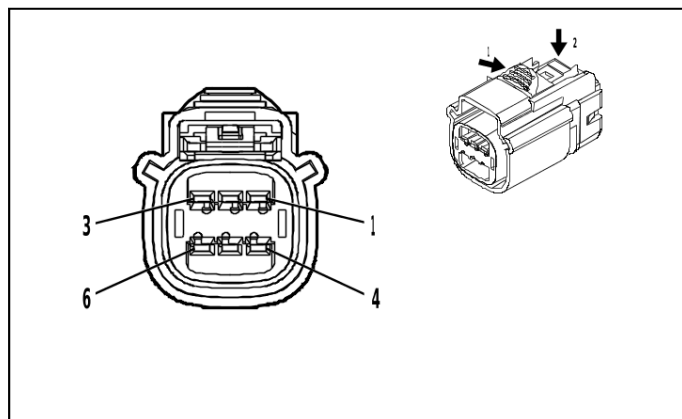
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-13 (BU)	No Tool Required

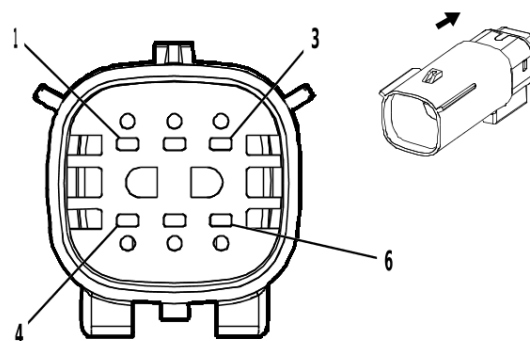
X420B Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness (- Z45)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) G N / YE	(1) 1616	(1) I	(1) - Z45	(1) Rear Brake Pad Wear Sensor Signal	(1) 1	(1) 0.75	(1) G N / YE	(1) 1616	(1) II	(1) - Z45
(2) 2	(2) 0.75	(2) BK / WH	(2) 1951	(2) I	(2) - Z45	(2) Signal Ground	(2) 2	(2) 0.75	(2) BK / WH	(2) 1951	(2) II	(2) - Z45

X420B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (Z45)



5004419



1986159

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 15513504
- Service Connector: 84999473
- Description: 6-Way F 1.5 OCS Series, Sealed(BK)

Connector Part Information

- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 33482-3601
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

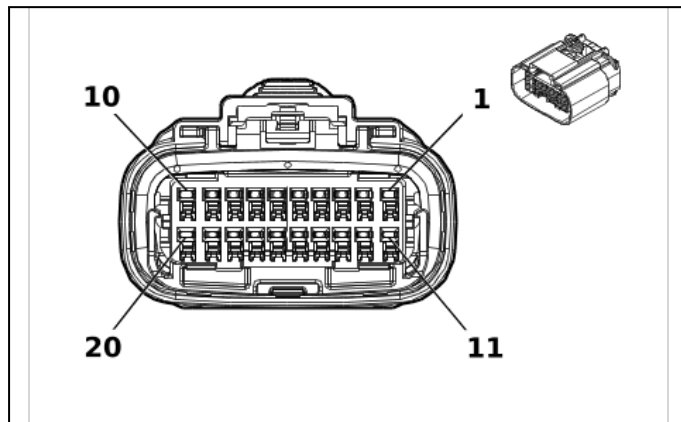
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X420B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (Z45)

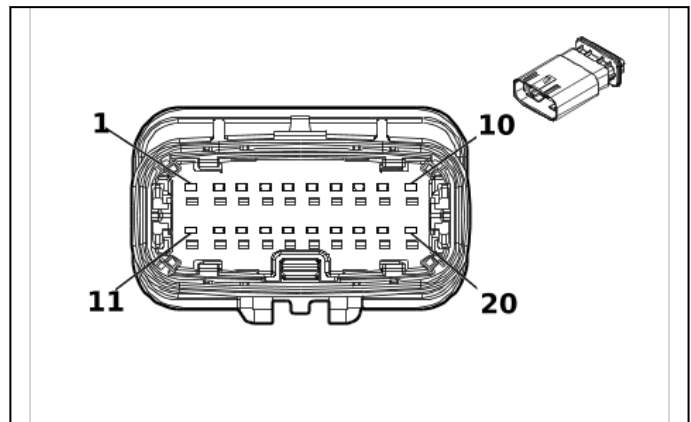
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / GY	(1) 111 4	(1) I	(1) Z45	(1) Left Rear Shock Absorber Actuator Control	(1) 1	(1) 0.75	(1) BU / GY	(1) 111 4	(1) II	(1) Z45
(2) 2	(2) 0.5	(2) G N / YE	(2) 161 6	(2) I	(2) Z45	(2) Rear Brake Pad Wear Sensor Signal	(2) 2	(2) 0.75	(2) G N / YE	(2) 161 6	(2) II	(2) Z45
(3) 3	(3) 0.75	(3) GY / BK	(3) 725 3	(3) I	(3) G94	(3) Rear Differential Lock Actuator Low Control	(3) 3	(3) 0.75	(3) GY / BK	(3) 725 3	(3) II	(3) G94
	(3) 0.75	(3) BN / GN	(3) 111 8	(3) I	(3) Z45	(3) Right Rear Shock Absorber Actuator Control		(3) 0.75	(3) BN / GN	(3) 111 8	(3) II	(3) Z45
(4) 4	(4) 0.75	(4) G N / VT	(4) 111 5	(4) I	(4) Z45	(4) Left Rear Shock Absorber Actuator Control	(4) 4	(4) 0.75	(4) G N / VT	(4) 111 5	(4) II	(4) Z45

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(5) 5	(5) 0.5	(5) BK / WH	(5) 195 ₁	(5) I	(5) Z45	(5) Signal Ground	(5) 5	(5) 0.75	(5) BK / WH	(5) 195 ₁	(5) II	(5) Z45
(6) 6	(6) 0.75	(6) VT / BN	(6) 725 ₈	(6) I	(6) G94	(6) Rear Differential Lock Actuator Control	(6) 6	(6) 0.75	(6) VT / BN	(6) 725 ₈	(6) II	(6) G94
	(6) 0.75	(6) G N / GY	(6) 111 ₉	(6) I	(6) Z45	(6) Right Rear Shock Absorber Actuator Control		(6) 0.75	(6) G N / GY	(6) 111 ₉	(6) II	(6) Z45

X424 Body Wiring Harness to Chassis Wiring Harness



6240294



6081336

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35465658
- Service Connector: 86579559
- Description: 20-Way F 1.2 MCON-CB Series, Sealed(BK)

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 35465720
- Service Connector: 85625526
- Description: 20-Way M 1.2 MCON-CB Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370818	J-35616-12 (BU)	J-38125-215A
II	19371217	J-35616-12 (BU)	J-38125-553
III	84867140	J-35616-13 (BU)	J-38125-215A
IV	84867141	J-35616-13 (BU)	J-38125-215A

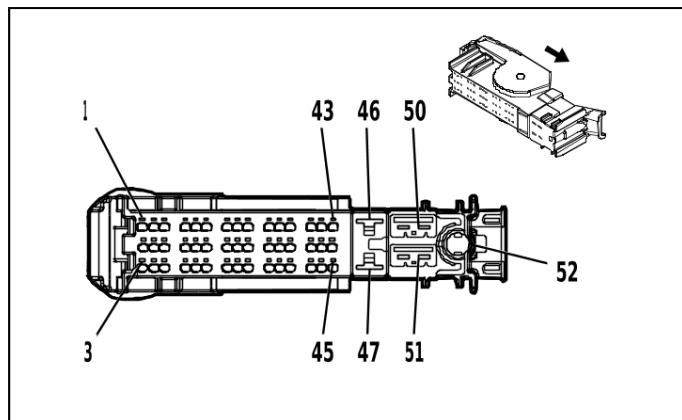
X424 Body Wiring Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 1	(1) VT	(1) 772 ₅	(1) II	(1) —	(1) Minor Endgate Motor Control	(1) 1	(1) 1	(1) VT	(1) 772 ₅	(1) IV	(1) —
(2) 2	(2) 0.5	(2) W _H	(2) 498 ₆	(2) I	(2) —	(2) AUTOSAR CAN Bus [-] 1 Serial Data	(2) 2	(2) 0.5	(2) W _H	(2) 498 ₆	(2) III	(2) —

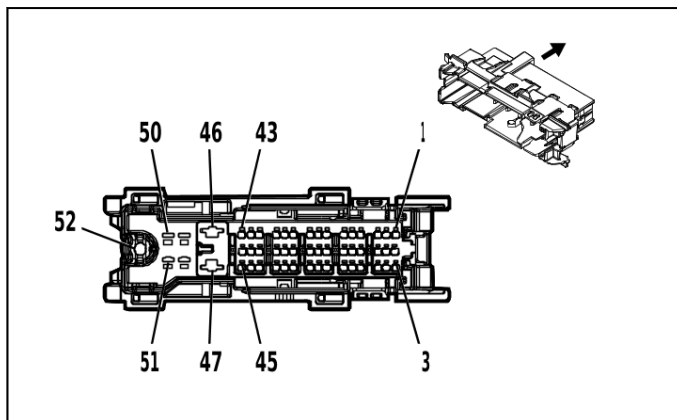
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(3) 3	(3) 0.5	(3) W H	(3) 410 0	(3) I	(3) —	(3) AUTOSAR CAN Bus [-] 4 Serial Data	(3) 3	(3) 0.5	(3) W H	(3) 410 0	(3) III	(3) —
(4) 4	(4) 0.5	(4) BU /VT	(4) 410 1	(4) I	(4) —	(4) AUTOSAR CAN Bus [+] 4 Serial Data	(4) 4	(4) 0.5	(4) BU /VT	(4) 410 1	(4) III	(4) —
(5) 5	(5) 0.5	(5) W H / GY	(5) 410 4	(5) I	(5) —	(5) AUTOSAR CAN Bus [-] 8 Serial Data	(5) 5	(5) 0.5	(5) W H / GY	(5) 410 4	(5) III	(5) —
(6) 6	(6) 0.5	(6) BU / GY	(6) 410 5	(6) I	(6) —	(6) AUTOSAR CAN Bus [+] 8 Serial Data	(6) 6	(6) 0.5	(6) BU / GY	(6) 410 5	(6) III	(6) —
(7) 7	(7) 0.5	(7) W H / GY	(7) 410 4	(7) I	(7) —	(7) AUTOSAR CAN Bus [-] 8 Serial Data	(7) 7	(7) 0.5	(7) W H / GY	(7) 410 4	(7) III	(7) —
(8) 8	(8) 0.5	(8) BU / GY	(8) 410 5	(8) I	(8) —	(8) AUTOSAR CAN Bus [+] 8 Serial Data	(8) 8	(8) 0.5	(8) BU / GY	(8) 410 5	(8) III	(8) —
(9) 9	(9) 0.35	(9) YE	(9) 114 4	(9) I	(9) —	(9) Endgate Release Switch Discrete Signal Exterior	(9) 9	(9) 0.5	(9) YE	(9) 114 4	(9) III	(9) —
(10) 10	(10) 1	(10) G N	(10) 12 99	(10) II	(10) —	(10) Major Endgate Motor Control	(10) 10	(10) 1	(10) G N	(10) 12 99	(10) IV	(10) —
(11) 11	(11) 1	(11) B K	(11) 90 03	(11) II	(11) —	(11) —	(11) 11	(11) 1	(11) B K	(11) 90 03	(11) IV	(11) —
(12) 12	(12) 0.5	(12) B U	(12) 49 87	(12) I	(12) —	(12) AUTOSAR CAN Bus [+] 1 Serial Data	(12) 12	(12) 0.5	(12) B U	(12) 49 87	(12) III	(12) —
(13) 13	(13) 0.35	(13) Y E / BU	(13) 72 95	(13) I	(13) —	(13) Left Minor Endgate Ajar Signal	(13) 13	(13) 0.75	(13) Y E / BU	(13) 72 95	(13) III	(13) —
(14) 14	(14) 0.5	(14) B U / GY	(14) 40 54	(14) I	(14) —	(14) Private Serial Data Powertrain CAN Bus [-] Serial Data	(14) 14	(14) 0.5	(14) B U / GY	(14) 40 54	(14) III	(14) —
(15) 15	(15) 0.5	(15) WH	(15) 40 55	(15) I	(15) —	(15) Private Serial Data Powertrain CAN Bus [+] Serial Data	(15) 15	(15) 0.5	(15) WH	(15) 40 55	(15) III	(15) —
16	—	—	—	—	—	Not Occupied	16	—	—	—	—	—
(17) 17	(17) 0.5	(17) WH	(17) 49 86	(17) I	(17) —	(17) AUTOSAR CAN Bus [-] 1 Serial Data	(17) 17	(17) 0.5	(17) WH	(17) 49 86	(17) III	(17) —
(18) 18	(18) 0.5	(18) B U	(18) 49 87	(18) I	(18) —	(18) AUTOSAR CAN Bus [+] 1 Serial Data	(18) 18	(18) 0.5	(18) B U	(18) 49 87	(18) III	(18) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
19	—	—	—	—	—	Not Occupied	19	—	—	—	—	—
(20) 20	(20) 1	(20) Y E / BK	(20) 77 30	(20) II	(20) —	(20) Major Endgate Motor Low Reference	(20) 20	(20) 1	(20) Y E / BK	(20) 77 30	(20) IV	(20) —

X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness



4992530



4993484

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Driver
- OEM Connector: 6098-8365
- Service Connector: Service by Harness - See Part Catalog
- Description: 52-Way F 1.2, 2.8, 6.3, Coaxial Series(BK)

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35190453
- Service Connector: 13527236
- Description: 52-Way M 1.2, 2.8, 6.3, Coaxial Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-42 (RD)	No Tool Required
III	Service by Cable	No Tool Required	No Tool Required
IV	19301536	J-35616-43 (RD)	J-38125-11A
V	84616651	J-35616-13 (BU)	J-38125-215A
VI	Service by Cable	No Tool Required	No Tool Required

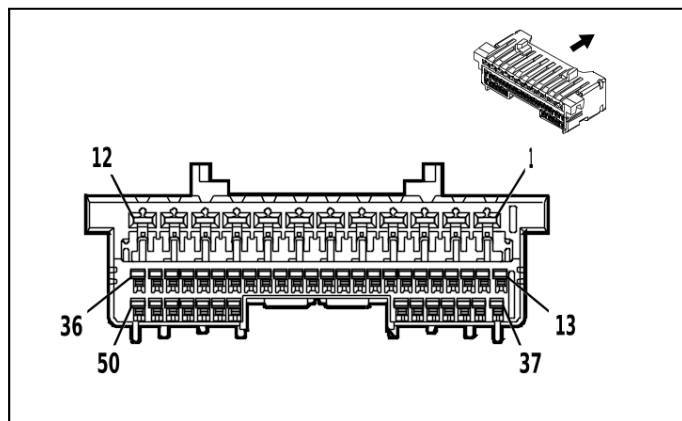
X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
(2) 2	(2) 0.5	(2) RD / BU	(2) 124 0	(2) I	(2) —	(2) Battery Positive Voltage	(2) 2	(2) 0.5	(2) RD / BU	(2) 124 0	(2) V	(2) —
3 - 5	—	—	—	—	—	Not Occupied	3 - 5	—	—	—	—	—
(6) 6	(6) 0.5	(6) BK / OG	(6) 662 8	(6) I	(6) —	(6) Left Front Side Impact Sensor Low Reference	(6) 6	(6) 0.5	(6) BK / OG	(6) 662 8	(6) V	(6) —

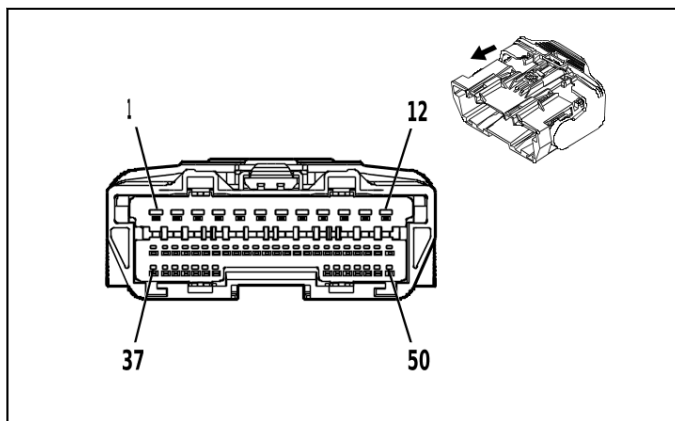
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(7) 7	(7) 0.75	(7) BN / BU	(7) 118	(7) I	(7) —	(7) Left Front Speaker [-] Control 1	(7) 7	(7) 0.75	(7) BN / BU	(7) 118	(7) V	(7) —
(8) 8	(8) 0.75	(8) BU	(8) 201	(8) I	(8) —	(8) Left Front Speaker 1 [+] Control	(8) 8	(8) 0.75	(8) BU	(8) 201	(8) V	(8) —
(9) 9	(9) 0.5	(9) O G / GN	(9) 213 2	(9) I	(9) —	(9) Left Front Side Impact Sensor Signal	(9) 9	(9) 0.5	(9) O G / GN	(9) 213 2	(9) V	(9) —
10	—	—	—	—	—	Not Occupied	10	—	—	—	—	—
(11) 11	(11) 0.5	(11) V T	(11) 43 01	(11) I	(11) —	(11) Passive Entry Left Antenna Signal High	(11) 11	(11) 0.35	(11) V T	(11) 43 01	(11) V	(11) —
(12) 12	(12) 0.5	(12) V T / GY	(12) 43 02	(12) I	(12) —	(12) Passive Entry Left Antenna Signal Low	(12) 12	(12) 0.35	(12) V T / WH	(12) 43 02	(12) V	(12) —
(13) 13	(13) 0.5	(13) V T / GY	(13) 12 6	(13) I	(13) —	(13) Left Front Door Open Switch Signal	(13) 13	(13) 0.35	(13) V T / GY	(13) 12 6	(13) V	(13) —
(14) 14	(14) 0.5	(14) Y E / WH	(14) 16 90	(14) I	(14) —	(14) Mirror Dimming Signal	(14) 14	(14) 0.35	(14) Y E / WH	(14) 16 90	(14) V	(14) —
(15) 15	(15) 0.5	(15) B K / YE	(15) 16 91	(15) I	(15) —	(15) Automatic Day/Night Mirror Low Reference	(15) 15	(15) 0.35	(15) B K / YE	(15) 16 91	(15) V	(15) —
(16) 16	(16) 0.5	(16) WH / GY	(16) 21 14	(16) I	(16) —	(16) Left Turn Signal Lamp Control 2	(16) 16	(16) 0.35	(16) WH / GY	(16) 21 14	(16) V	(16) —
(17) 17	(17) 0.5	(17) B U	(17) 26 75	(17) I	(17) —	(17) Left Front Exterior Door Handle Switch Unlock Signal	(17) 17	(17) 0.35	(17) B U	(17) 26 75	(17) V	(17) —
(18) 18	(18) 0.75	(18) WH	(18) 26 79	(18) I	(18) —	(18) Lock Actuators Unlock Control 1	(18) 18	(18) 0.75	(18) WH	(18) 26 79	(18) V	(18) —
(19) 19	(19) 0.75	(19) G Y	(19) 26 81	(19) I	(19) —	(19) Left Front Door Lock Actuator Lock Control	(19) 19	(19) 0.75	(19) G Y	(19) 26 81	(19) V	(19) —
20 - 22	—	—	—	—	—	Not Occupied	20 - 22	—	—	—	—	—
(23) 23	(23) 0.5	(23) WH / GN	(23) 59 66	(23) I	(23) —	(23) Approach Lamp Control	(23) 23	(23) 0.5	(23) WH / GN	(23) 59 66	(23) V	(23) —
24	—	—	—	—	—	Not Occupied	24	—	—	—	—	—
(25) 25	(25) 0.5	(25) B U / GN	(25) 61 4	(25) I	(25) —	(25) Seat Memory Switch Set Signal	(25) 25	(25) 0.35	(25) B U / GN	(25) 61 4	(25) V	(25) —
(26) 26	(26) 0.5	(26) B U / YE	(26) 77 61	(26) I	(26) —	(26) Backup Illumination Lamp Control	(26) 26	(26) 0.35	(26) B U / YE	(26) 77 61	(26) V	(26) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(27) 27	(27) 0.5	(27) Y E	(27) 68 17	(27) I	(27) —	(27) LED Backlight Dimming Control 1	(27) 27	(27) 0.5	(27) Y E	(27) 68 17	(27) V	(27) —
28	—	—	—	—	—	Not Occupied	28	—	—	—	—	—
(29) 29	(29) 0.5	(29) G N / YE	(29) 61 34	(29) I	(29) —	(29) Body Control Module LIN Bus 3	(29) 29	(29) 0.35	(29) G N / YE	(29) 61 34	(29) V	(29) —
(30) 30	(30) 0.5	(30) B N / GN	(30) 42 46	(30) I	(30) —	(30) Identification Lamp Control	(30) 30	(30) 0.5	(30) B N / GN	(30) 42 46	(30) V	(30) —
(31) 31	(31) 0.5	(31) B K / WH	(31) 15 51	(31) I	(31) —	(31) Ground (31) Signal Ground	(31) 31	(31) 0.5 (31) 0.5	(31) B K (31) B K / WH	(31) 15 50 (31) 15 51	(31) V	(31) — (31) —
(32) 32	(32) 0.5	(32) Y E / GY	(32) 29 33	(32) I	(32) —	(32) Task Lamp Control Left	(32) 32	(32) 0.35	(32) Y E / GY	(32) 29 33	(32) V	(32) —
(33) 33	(33) 0.5	(33) WH	(33) 61 5	(33) I	(33) —	(33) Seat Memory Switch Signal 1	(33) 33	(33) 0.35	(33) WH	(33) 61 5	(33) V	(33) —
34 - 45	—	—	—	—	—	Not Occupied	34 - 45	—	—	—	—	—
(46) 46	(46) 2.5	(46) R D / GY	(46) 35 40	(46) II	(46) —	(46) Battery Positive Voltage	(46) 46	(46) 2.5	(46) R D / GY	(46) 35 40	(46) IV	(46) —
(47) 47	(47) 2.5	(47) B K	(47) 15 50	(47) II	(47) —	(47) Ground	(47) 47	(47) 2.5	(47) B K	(47) 15 50	(47) IV	(47) —
48 - 51	—	—	—	—	—	Not Occupied	48 - 51	—	—	—	—	—
(52) 52	(52) 0	(52) B ARE	(52) 47 25	(52) III	(52) —	(52) Left Sideview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(52) 52	(52) 0	(52) B K	(52) 47 25	(52) VI	(52) —

X505 Front Side Door Door Wiring Harness - Driver to Front Side Door Door Lock Door Wiring Harness - Driver



4997556



5022037

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Driver
- OEM Connector: 35283943
- Service Connector: Service by Harness - See Part Catalog
- Description: 50-Way F 1.2, 2.8 OCS Series(BK)

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Driver
- OEM Connector: 33390111
- Service Connector: Service by Harness - See Part Catalog
- Description: 50-Way M 1.2, 2.8 OCS Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required
III	Not required	J-35616-17 (L-GN)	No Tool Required
IV	Not required	J-35616-5 (PU)	No Tool Required

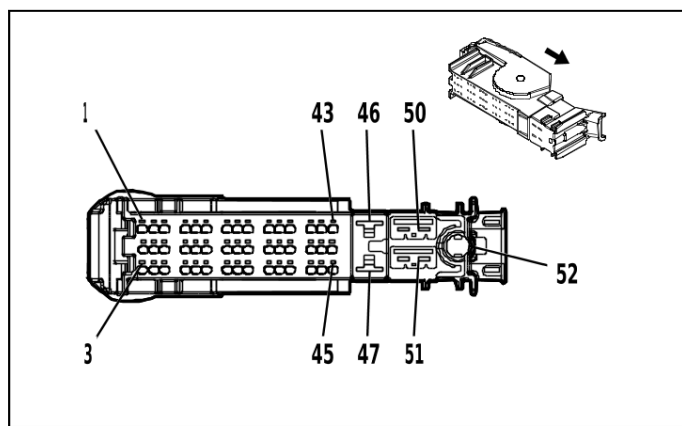
X505 Front Side Door Door Wiring Harness - Driver to Front Side Door Door Lock Door Wiring Harness - Driver

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / BU	(1) 124 ₀	(1) II	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / BU	(1) 124 ₀	(1) IV	(1) —
(2) 2	(2) 0.5	(2) GY / YE	(2) 176 ₀	(2) II	(2) —	(2) Left Side Object Detection LED Control	(2) 2	(2) 0.35	(2) GY / YE	(2) 176 ₀	(2) IV	(2) —
3	—	—	—	—	—	Not Occupied	3	—	—	—	—	—
(4) 4	(4) 0.5	(4) GY / GN	(4) 276 ₃	(4) II	(4) —	(4) Window Switch Left Front Up Signal	(4) 4	(4) 0.5	(4) GY / GN	(4) 276 ₃	(4) IV	(4) —
5	—	—	—	—	—	Not Occupied	5	—	—	—	—	—
(6) 6	(6) 0.5	(6) W H / BN	(6) 276 ₄	(6) II	(6) —	(6) Window Switch Left Front Down Signal	(6) 6	(6) 0.5	(6) W H / BN	(6) 276 ₄	(6) IV	(6) —
7	—	—	—	—	—	Not Occupied	7	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(8) 8	(8) 0.5	(8) G N	(8) 276 6	(8) II	(8) —	(8) Power Window Switch Left Front Express Signal	(8) 8	(8) 0.5	(8) G N	(8) 276 6	(8) IV	(8) —
9 - 11	—	—	—	—	—	Not Occupied	9 - 11	—	—	—	—	—
(12) 12	(12) 0.5	(12) G Y / WH	(12) 2785	(12) II	(12) —	(12) Left Front Mirror Motor Fold Out Control	(12) 12	(12) 0.5	(12) G Y / WH	(12) 2785	(12) IV	(12) —
(13) 13	(13) 0.5	(13) WH / GN	(13) 2786	(13) I	(13) —	(13) Left Front Mirror Motor Fold In Control	(13) 13	(13) 0.5	(13) WH / GN	(13) 2786	(13) III	(13) —
(14) 14	(14) 0.5	(14) G Y / BN	(14) 2787	(14) I	(14) —	(14) Left Front Mirror Position Sensor Up [+] Down [-] Signal	(14) 14	(14) 0.5	(14) G Y / BN	(14) 2787	(14) III	(14) —
(15) 15	(15) 0.5	(15) V T / BU	(15) 2788	(15) I	(15) —	(15) Left Front Mirror Motor Up [+] Down [-] Control	(15) 15	(15) 0.5	(15) V T / BU	(15) 2788	(15) III	(15) —
(16) 16	(16) 0.5	(16) Y E / BN	(16) 2789	(16) I	(16) —	(16) Left Front Mirror Motor Common Control	(16) 16	(16) 0.5	(16) Y E / BN	(16) 2789	(16) III	(16) —
(17) 17	(17) 0.5	(17) B N / BK	(17) 2790	(17) I	(17) —	(17) Left Front Mirror Motor Right [+] Left [-] Control	(17) 17	(17) 0.5	(17) B N / BK	(17) 2790	(17) III	(17) —
(18) 18	(18) 0.5	(18) V T / RD	(18) 2791	(18) I	(18) —	(18) Left Front Mirror Position Sensor High Reference	(18) 18	(18) 0.5	(18) V T / RD	(18) 2791	(18) III	(18) —
(19) 19	(19) 0.5	(19) WH / YE	(19) 2792	(19) I	(19) —	(19) Left Front Mirror Position Sensor Left [-] Right [+] Signal	(19) 19	(19) 0.5	(19) WH / YE	(19) 2792	(19) III	(19) —
(20) 20	(20) 0.5	(20) WH	(20) 606	(20) I	(20) —	(20) Left Outside Rearview Mirror Heater Control	(20) 20	(20) 0.5	(20) WH	(20) 606	(20) III	(20) —
(21) 21	(21) 0.5	(21) G N / YE	(21) 6134	(21) I	(21) —	(21) Body Control Module LIN Bus 3	(21) 21	(21) 0.5	(21) G N / YE	(21) 6134	(21) III	(21) —
(22) 22	(22) 0.5	(22) B U / GN	(22) 614	(22) I	(22) —	(22) Seat Memory Switch Set Signal	(22) 22	(22) 0.5	(22) B U / GN	(22) 614	(22) III	(22) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(23) 23	(23) 0.5	(23) WH	(23) 61 5	(23) I	(23) —	(23) Seat Memory Switch Signal 1	(23) 23	(23) 0.5	(23) WH	(23) 61 5	(23) III	(23) —
(24) 24	(24) 0.5	(24) B K / BN	(24) 67 3	(24) I	(24) —	(24) Left Outside Rearview Mirror Position Sensor Low Reference	(24) 24	(24) 0.5	(24) B K / BN	(24) 67 3	(24) III	(24) —
(25) 25	(25) 0.5	(25) Y E	(25) 68 17	(25) I	(25) —	(25) LED Backlight Dimming Control 1	(25) 25	(25) 0.5	(25) Y E	(25) 68 17	(25) III	(25) —
26	—	—	—	—	—	Not Occupied	26	—	—	—	—	—
(27) 27	(27) 0.5	(27) B K	(27) 15 50	(27) I	(27) —	(27) Ground	(27) 27	(27) 0.5	(27) B K	(27) 15 50	(27) III	(27) —
(28) 28	(28) 0.5	(28) B K / WH	(28) 15 51	(28) I	(28) —	(28) Signal Ground	(28) 28	(28) 0.5	(28) B K / WH	(28) 15 51	(28) III	(28) —
(29) 29	(29) 0.5	(29) WH / VT	(29) 42 58	(29) I	(29) —	(29) Left Front Door Lock Status Signal	(29) 29	(29) 0.5	(29) WH / VT	(29) 42 58	(29) III	(29) —
30 - 50	—	—	—	—	—	Not Occupied	30 - 50	—	—	—	—	—

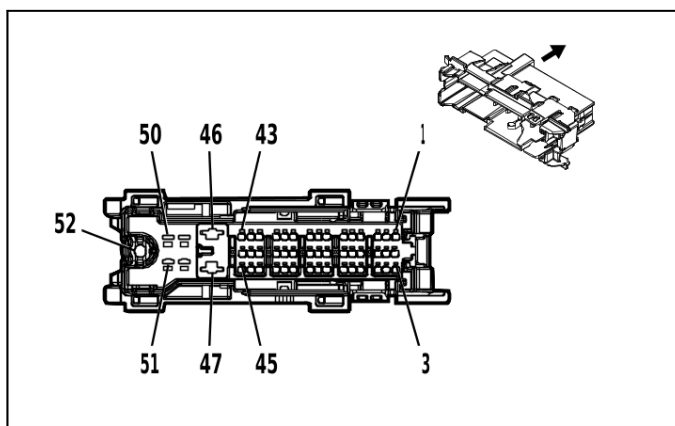
X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness - Double Cab / Crew Cab



4992530

Connector Part Information

- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 6098-8365
- Service Connector: Service by Harness - See Part Catalog
- Description: 52-Way F 1.2, 2.8, 6.3, Coaxial Series(BK)



4993484

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35190453
- Service Connector: 13527236
- Description: 52-Way M 1.2, 2.8, 6.3, Coaxial Series(BK)

Terminal Part Information

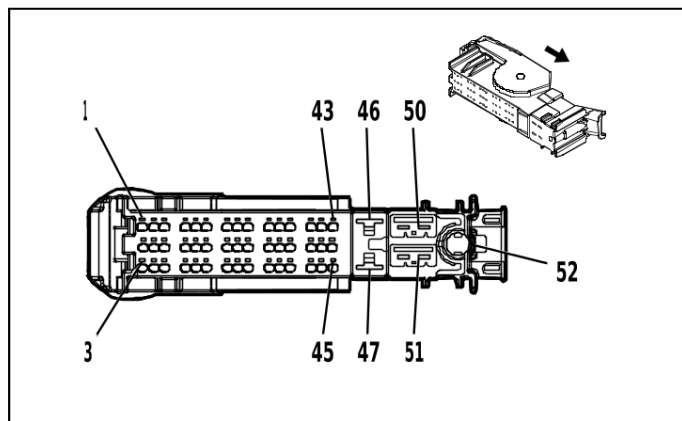
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-42 (RD)	No Tool Required

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
III	Not required	No Tool Required	No Tool Required
IV	19301536	J-35616-43 (RD)	J-38125-11A
V	84616651	J-35616-13 (BU)	J-38125-215A
VI	Service by Cable	No Tool Required	No Tool Required

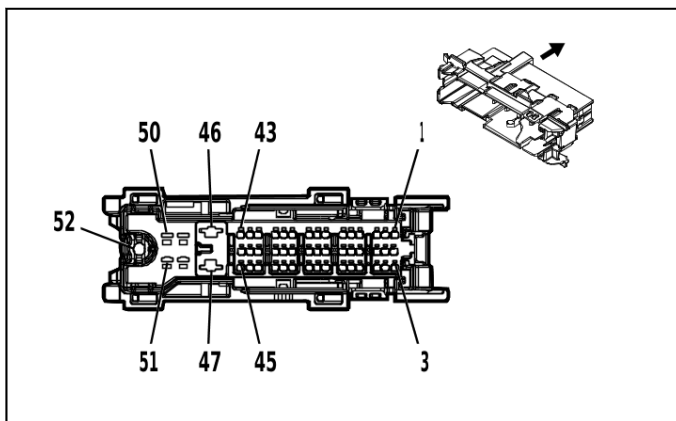
X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness - Double Cab / Crew Cab

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 4	—	—	—	—	—	Not Occupied	1 - 4	—	—	—	—	—
(5) 5	(5) 0.75	(5) YE	(5) 200	(5) I	(5) —	(5) Right Front Speaker 1 [+] Control	(5) 5	(5) 0.75	(5) YE	(5) 200	(5) V	(5) —
(6) 6	(6) 0.75	(6) YE / BK	(6) 117	(6) I	(6) —	(6) Right Front Speaker [-] Control 1	(6) 6	(6) 0.75	(6) YE / BK	(6) 117	(6) V	(6) —
7	—	—	—	—	—	Not Occupied	7	—	—	—	—	—
(8) 8	(8) 0.5	(8) BN / OG	(8) 213 4	(8) I	(8) —	(8) Right Front Side Impact Sensor Signal	(8) 8	(8) 0.5	(8) BN / OG	(8) 213 4	(8) V	(8) —
(9) 9	(9) 0.5	(9) BK / OG	(9) 662 9	(9) I	(9) —	(9) Right Front Side Impact Sensor Low Reference	(9) 9	(9) 0.5	(9) BK / OG	(9) 662 9	(9) V	(9) —
(10) 10	(10) 0.5	(10) G N / YE	(10) 43 03	(10) I	(10) —	(10) Passive Entry Right Antenna Signal High	(10) 10	(10) 0.35	(10) G N / YE	(10) 43 03	(10) V	(10) —
(11) 11	(11) 0.5	(11) G N / BK	(11) 43 04	(11) I	(11) —	(11) Passive Entry Right Antenna Signal Low	(11) 11	(11) 0.35	(11) G N / BK	(11) 43 04	(11) V	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
(13) 13	(13) 0.5	(13) G N / GY	(13) 21 15	(13) I	(13) —	(13) Right Turn Signal Lamp Control 2	(13) 13	(13) 0.35	(13) G N / GY	(13) 21 15	(13) V	(13) —
(14) 14	(14) 0.5	(14) G Y / VT	(14) 26 76	(14) I	(14) —	(14) Right Front Door Exterior Switch Unlock Signal	(14) 14	(14) 0.35	(14) G Y / VT	(14) 26 76	(14) V	(14) —
(15) 15	(15) 0.75	(15) G Y / BK	(15) 26 80	(15) I	(15) —	(15) Lock Actuators Unlock Control 2	(15) 15	(15) 0.75	(15) G Y / BK	(15) 26 80	(15) V	(15) —
(16) 16	(16) 0.75	(16) Y E / GN	(16) 26 82	(16) I	(16) —	(16) Right Front Door Lock Actuator Lock Control	(16) 16	(16) 0.75	(16) Y E / GN	(16) 26 82	(16) V	(16) —
17 - 19	—	—	—	—	—	Not Occupied	17 - 19	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(20) 20	(20) 0.5	(20) WH / GN	(20) 59 66	(20) I	(20) —	(20) Approach Lamp Control	(20) 20	(20) 0.5	(20) WH / GN	(20) 59 66	(20) V	(20) —
21	—	—	—	—	—	Not Occupied	21	—	—	—	—	—
(22) 22	(22) 0.5	(22) B K / GY	(22) 62 6	(22) I	(22) —	(22) Engine Control Vehicle Sensors Low Reference 1	(22) 22	(22) 0.5	(22) B K / GY	(22) 62 6	(22) V	(22) —
(23) 23	(23) 0.5	(23) B U / GY	(23) 63 6	(23) I	(23) —	(23) Ambient Air Temperature Sensor Signal	(23) 23	(23) 0.5	(23) B U / GY	(23) 63 6	(23) V	(23) —
(24) 24	(24) 0.5	(24) Y E	(24) 68 17	(24) III	(24) —	(24) LED Backlight Dimming Control 1	(24) 24	(24) 0.5	(24) Y E	(24) 68 17	(24) V	(24) —
25	—	—	—	—	—	Not Occupied	25	—	—	—	—	—
(26) 26	(26) 0.5	(26) B U / YE	(26) 77 61	(26) I	(26) —	(26) Backup Illumination Lamp Control	(26) 26	(26) 0.35	(26) B U / YE	(26) 77 61	(26) V	(26) —
27	—	—	—	—	—	Not Occupied	27	—	—	—	—	—
(28) 28	(28) 0.5	(28) B K / WH	(28) 14 51	(28) I	(28) —	(28) Signal Ground	(28) 28	(28) 0.75	(28) B K / WH	(28) 14 51	(28) V	(28) —
(29) 29	(29) 0.5	(29) G N / YE	(29) 61 34	(29) I	(29) —	(29) Body Control Module LIN Bus 3	(29) 29	(29) 0.35	(29) G N / YE	(29) 61 34	(29) V	(29) —
(30) 30	(30) 0.5	(30) Y E / WH	(30) 29 34	(30) I	(30) —	(30) Task Lamp Control Right	(30) 30	(30) 0.35	(30) Y E / WH	(30) 29 34	(30) V	(30) —
(31) 31	(31) 0.5	(31) B N / GN	(31) 42 46	(31) I	(31) —	(31) Identification Lamp Control	(31) 31	(31) 0.5	(31) B N / GN	(31) 42 46	(31) V	(31) —
32 - 45	—	—	—	—	—	Not Occupied	32 - 45	—	—	—	—	—
(46) 46	(46) 2.5	(46) R D / BN	(46) 42 40	(46) II	(46) —	(46) Battery Positive Voltage	(46) 46	(46) 2.5	(46) R D / BN	(46) 42 40	(46) IV	(46) —
(47) 47	(47) 2.5	(47) B K	(47) 13 50	(47) II	(47) —	(47) Ground	(47) 47	(47) 2.5	(47) B K	(47) 13 50	(47) IV	(47) —
48 - 51	—	—	—	—	—	Not Occupied	48 - 51	—	—	—	—	—
(52) 52	(52) 0.16	(52) B K	(52) 47 24	(52) III	(52) —	(52) Right Sideview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(52) 52	(52) 0.16	(52) B K	(52) 47 24	(52) VI	(52) —

X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness - Regular Cab

4992530



4993484

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Passenger
- OEM Connector: 6098-8365
- Service Connector: Service by Harness - See Part Catalog
- Description: 52-Way F 1.2, 2.8, 6.3, Coaxial Series(BK)

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35190453
- Service Connector: 13527236
- Description: 52-Way M 1.2, 2.8, 6.3, Coaxial Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-42 (RD)	No Tool Required
III	Service by Cable	No Tool Required	No Tool Required
IV	19301536	J-35616-43 (RD)	J-38125-11A
V	84616651	J-35616-13 (BU)	J-38125-215A
VI	Not required	No Tool Required	No Tool Required

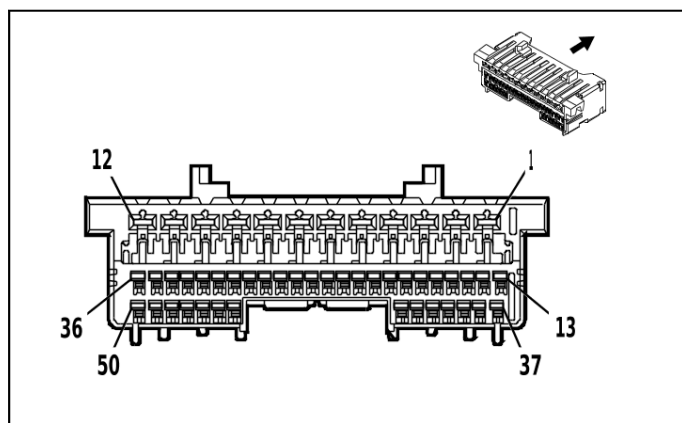
X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness - Regular Cab

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 4	—	—	—	—	—	Not Occupied	1 - 4	—	—	—	—	—
(5) 5	(5) 0.75	(5) YE	(5) 200	(5) I	(5) —	(5) Right Front Speaker 1 [+] Control	(5) 5	(5) 0.75	(5) YE	(5) 200	(5) V	(5) —
(6) 6	(6) 0.75	(6) YE / BK	(6) 117	(6) I	(6) —	(6) Right Front Speaker [-] Control 1	(6) 6	(6) 0.75	(6) YE / BK	(6) 117	(6) V	(6) —
7	—	—	—	—	—	Not Occupied	7	—	—	—	—	—
(8) 8	(8) 0.5	(8) BN / OG	(8) 213 4	(8) I	(8) —	(8) Right Front Side Impact Sensor Signal	(8) 8	(8) 0.5	(8) BN / OG	(8) 213 4	(8) V	(8) —
(9) 9	(9) 0.5	(9) BK / OG	(9) 662 9	(9) I	(9) —	(9) Right Front Side Impact Sensor Low Reference	(9) 9	(9) 0.5	(9) BK / OG	(9) 662 9	(9) V	(9) —

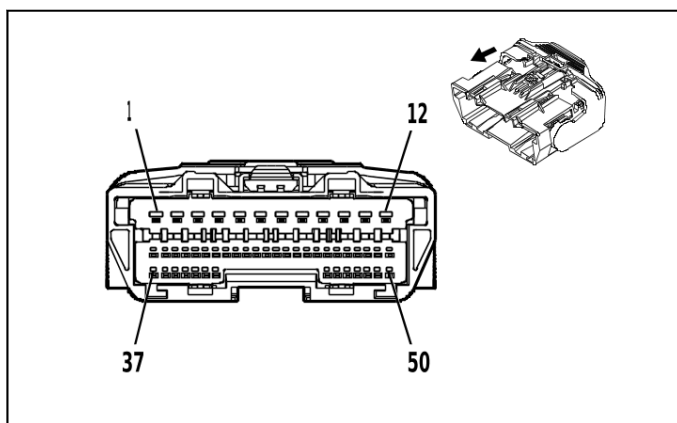
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(10) 10	(10) 0.5	(10) G N / YE	(10) 43 03	(10) I	(10) —	(10) Passive Entry Right Antenna Signal High	(10) 10	(10) 0.35	(10) G N / YE	(10) 43 03	(10) V	(10) —
(11) 11	(11) 0.5	(11) G N / BK	(11) 43 04	(11) I	(11) —	(11) Passive Entry Right Antenna Signal Low	(11) 11	(11) 0.35	(11) G N / BK	(11) 43 04	(11) V	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
(13) 13	(13) 0.5	(13) G N / GY	(13) 21 15	(13) I	(13) —	(13) Right Turn Signal Lamp Control 2	(13) 13	(13) 0.35	(13) G N / GY	(13) 21 15	(13) V	(13) —
(14) 14	(14) 0.5	(14) G Y / VT	(14) 26 76	(14) I	(14) —	(14) Right Front Door Exterior Switch Unlock Signal	(14) 14	(14) 0.35	(14) G Y / VT	(14) 26 76	(14) V	(14) —
(15) 15	(15) 0.75	(15) G Y / BK	(15) 26 80	(15) I	(15) —	(15) Lock Actuators Unlock Control 2	(15) 15	(15) 0.75	(15) G Y / BK	(15) 26 80	(15) V	(15) —
(16) 16	(16) 0.75	(16) Y E / GN	(16) 26 82	(16) I	(16) —	(16) Right Front Door Lock Actuator Lock Control	(16) 16	(16) 0.75	(16) Y E / GN	(16) 26 82	(16) V	(16) —
17 - 19	—	—	—	—	—	Not Occupied	17 - 19	—	—	—	—	—
(20) 20	(20) 0.5	(20) WH / GN	(20) 59 66	(20) I	(20) —	(20) Approach Lamp Control	(20) 20	(20) 0.5	(20) WH / GN	(20) 59 66	(20) V	(20) —
21	—	—	—	—	—	Not Occupied	21	—	—	—	—	—
(22) 22	(22) 0.5	(22) B K / GY	(22) 62 6	(22) I	(22) —	(22) Engine Control Vehicle Sensors Low Reference 1	(22) 22	(22) 0.5	(22) B K / GY	(22) 62 6	(22) V	(22) —
(23) 23	(23) 0.5	(23) B U / GY	(23) 63 6	(23) I	(23) —	(23) Ambient Air Temperature Sensor Signal	(23) 23	(23) 0.5	(23) B U / GY	(23) 63 6	(23) V	(23) —
(24) 24	(24) 0.5	(24) Y E	(24) 68 17	(24) I	(24) —	(24) LED Backlight Dimming Control 1	(24) 24	(24) 0.5	(24) Y E	(24) 68 17	(24) V	(24) —
25	—	—	—	—	—	Not Occupied	25	—	—	—	—	—
(26) 26	(26) 0.5	(26) B U / YE	(26) 77 61	(26) I	(26) —	(26) Backup Illumination Lamp Control	(26) 26	(26) 0.35	(26) B U / YE	(26) 77 61	(26) V	(26) —
27	—	—	—	—	—	Not Occupied	27	—	—	—	—	—
(28) 28	(28) 0.5	(28) B K / WH	(28) 14 51	(28) I	(28) —	(28) Signal Ground	(28) 28	(28) 0.75	(28) B K / WH	(28) 14 51	(28) V	(28) —
(29) 29	(29) 0.5	(29) G N / YE	(29) 61 34	(29) I	(29) —	(29) Body Control Module LIN Bus 3	(29) 29	(29) 0.35	(29) G N / YE	(29) 61 34	(29) V	(29) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(30) 30	(30) 0.5	(30) Y E / WH	(30) 29 34	(30) I	(30) —	(30) Task Lamp Control Right	(30) 30	(30) 0.35	(30) Y E / WH	(30) 29 34	(30) V	(30) —
(31) 31	(31) 0.5	(31) B N / GN	(31) 42 46	(31) I	(31) —	(31) Identification Lamp Control	(31) 31	(31) 0.5	(31) B N / GN	(31) 42 46	(31) V	(31) —
32 - 45	—	—	—	—	—	Not Occupied	32 - 45	—	—	—	—	—
(46) 46	(46) 2.5	(46) R D / BN	(46) 42 40	(46) II	(46) —	(46) Battery Positive Voltage	(46) 46	(46) 2.5	(46) R D / BN	(46) 42 40	(46) IV	(46) —
(47) 47	(47) 2.5	(47) B K	(47) 13 50	(47) II	(47) —	(47) Ground	(47) 47	(47) 2.5	(47) B K	(47) 13 50	(47) IV	(47) —
48 - 51	—	—	—	—	—	Not Occupied	48 - 51	—	—	—	—	—
(52) 52	(52) 0	(52) B ARE	(52) 47 24	(52) III	(52) —	(52) Right Sideview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(52) 52	(52) 0	(52) B K	(52) 47 24	(52) VI	(52) —

X605 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness



4997556



5022037

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Passenger
- OEM Connector: 35283943
- Service Connector: Service by Harness - See Part Catalog
- Description: 50-Way F 1.2, 2.8 OCS Series(BK)

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Passenger
- OEM Connector: 33390111
- Service Connector: Service by Harness - See Part Catalog
- Description: 50-Way M 1.2, 2.8 OCS Series(BK)

Terminal Part Information

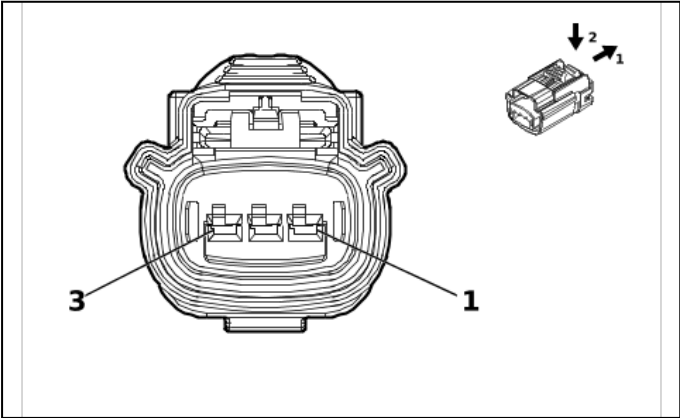
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required
III	Not required	J-35616-17 (L-GN)	No Tool Required
IV	Not required	J-35616-5 (PU)	No Tool Required

X605 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) RD / BN	(1) 424 ₀	(1) II	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 2.5	(1) RD / BN	(1) 424 ₀	(1) IV	(1) —
(2) 2	(2) 0.5	(2) G N	(2) 118 ₄	(2) II	(2) —	(2) Window Switch Right Front Up Signal	(2) 2	(2) 0.5	(2) G N	(2) 118 ₄	(2) IV	(2) —
(3) 3	(3) 0.5	(3) GY	(3) 176 ₁	(3) II	(3) —	(3) Right Side Object Detection LED Control	(3) 3	(3) 0.35	(3) GY	(3) 176 ₁	(3) IV	(3) —
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
(5) 5	(5) 0.5	(5) VT / GY	(5) 276 ₅	(5) II	(5) —	(5) Window Switch Right Front Express Signal	(5) 5	(5) 0.5	(5) VT / GY	(5) 276 ₅	(5) IV	(5) —
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—
(8) 8	(8) 0.5	(8) YE / WH	(8) 279 ₃	(8) II	(8) —	(8) Right Front Mirror Motor Fold Out Control	(8) 8	(8) 0.5	(8) YE / WH	(8) 279 ₃	(8) IV	(8) —
(9) 9	(9) 0.5	(9) BU / GY	(9) 279 ₄	(9) II	(9) —	(9) Right Front Mirror Motor Fold In Control	(9) 9	(9) 0.5	(9) BU / GY	(9) 279 ₄	(9) IV	(9) —
(10) 10	(10) 2.5	(10) B K	(10) 13 ₅₀	(10) II	(10) —	(10) Ground	(10) 10	(10) 2.5	(10) B K	(10) 13 ₅₀	(10) IV	(10) —
(11) 11	(11) 2	(11) G N / GY	(11) 66 ₆	(11) II	(11) —	(11) Right Front Window Motor Up Control	(11) 11	(11) 2.5	(11) G N / GY	(11) 66 ₆	(11) IV	(11) —
(12) 12	(12) 2	(12) Y E / BU	(12) 66 ₇	(12) II	(12) —	(12) Right Front Window Motor Down Control	(12) 12	(12) 2.5	(12) Y E / BU	(12) 66 ₇	(12) IV	(12) —
(13) 13	(13) 0.5	(13) G N / BK	(13) 27 ₉₈	(13) I	(13) —	(13) Right Front Mirror Motor Right [+] Left [-] Control	(13) 13	(13) 0.5	(13) G N / BK	(13) 27 ₉₈	(13) III	(13) —
(14) 14	(14) 0.5	(14) Y E / RD	(14) 27 ₉₉	(14) I	(14) —	(14) Right Front Mirror Position Sensor High Reference	(14) 14	(14) 0.5	(14) Y E / RD	(14) 27 ₉₉	(14) III	(14) —
(15) 15	(15) 0.5	(15) V T / WH	(15) 28 ₀₀	(15) I	(15) —	(15) Right Front Mirror Position Sensor Left [-] Right [+] Signal	(15) 15	(15) 0.5	(15) V T / WH	(15) 28 ₀₀	(15) III	(15) —
(16) 16	(16) 0.5	(16) B N	(16) 52 ₉₅	(16) I	(16) —	(16) Window Switch Right Front Down Signal	(16) 16	(16) 0.5	(16) B N	(16) 52 ₉₅	(16) III	(16) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(17) 17	(17) 0.5	(17) B N / VT	(17) 60 7	(17) I	(17) —	(17) Right Outside Rearview Mirror Heater Control	(17) 17	(17) 0.5	(17) B N / VT	(17) 60 7	(17) III	(17) —
(18) 18	(18) 0.5	(18) G N / YE	(18) 61 34	(18) I	(18) —	(18) Body Control Module LIN Bus 3	(18) 18	(18) 0.5	(18) G N / YE	(18) 61 34	(18) III	(18) —
19 - 20	—	—	—	—	—	Not Occupied	19 - 20	—	—	—	—	—
(21) 21	(21) 0.5	(21) B K / GN	(21) 67 5	(21) I	(21) —	(21) Right Outside Rearview Mirror Position Sensor Low Reference	(21) 21	(21) 0.5	(21) B K / GN	(21) 67 5	(21) III	(21) —
(22) 22	(22) 0.5	(22) Y E	(22) 68 17	(22) I	(22) —	(22) LED Backlight Dimming Control 1	(22) 22	(22) 0.5	(22) Y E	(22) 68 17	(22) III	(22) —
23 - 46	—	—	—	—	—	Not Occupied	23 - 46	—	—	—	—	—
(47) 47	(47) 0.5	(47) G Y	(47) 74 6	(47) I	(47) —	(47) Right Front Door Ajar Switch Signal	(47) 47	(47) 0.5	(47) G Y	(47) 74 6	(47) III	(47) —
(48) 48	(48) 0.5	(48) B U / YE	(48) 27 95	(48) I	(48) —	(48) Right Front Mirror Position Sensor Up [+] Down [-] Signal	(48) 48	(48) 0.5	(48) B U / YE	(48) 27 95	(48) III	(48) —
(49) 49	(49) 0.5	(49) Y E / VT	(49) 27 96	(49) I	(49) —	(49) Right Front Mirror Motor Up [+] Down [-] Control	(49) 49	(49) 0.5	(49) Y E / VT	(49) 27 96	(49) III	(49) —
(50) 50	(50) 0.5	(50) WH	(50) 27 97	(50) I	(50) —	(50) Right Front Mirror Motor Common Control	(50) 50	(50) 0.5	(50) WH	(50) 27 97	(50) III	(50) —

X618A Engine Wiring Harness to Active Grille Air Shutter Actuator Wiring Harness (VTI / WMI)



5765306

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 15514762
- Service Connector: 85535179
- Description: 3-Way F 1.5 YESC Series, Sealed(BK)

Connector Part Information

- Harness Type: Active Grille Air Shutter Actuator Wiring Harness
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way M (BK)

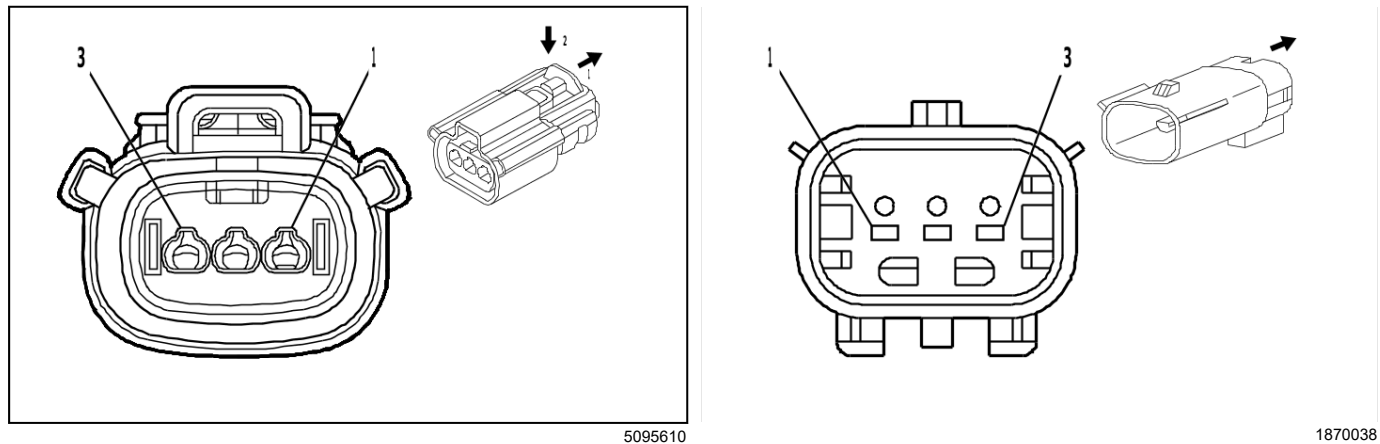
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	No Tool Required	No Tool Required
III	Not required	No Tool Required	No Tool Required

X618A Engine Wiring Harness to Active Grille Air Shutter Actuator Wiring Harness (VTI / WMI)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BU	(1) 570 5	(1) I	(1) —	(1) Powertrain Main Relay Control	(1) 1	(1) 0.5	(1) VT / BU	(1) 570 5	(1) III	(1) —
(2) 2	(2) 0.5	(2) GN / VT	(2) 462 1	(2) I	(2) —	(2) Engine Control Module LIN Bus 1	(2) 2	(2) 0.5	(2) GN / VT	(2) 462 1	(2) III	(2) —
(3) 3	(3) 0.5 (3) 1 (3) 0.5	(3) BK (3) BK (3) BK	(3) 450 (3) 450 (3) 655 0	(3) II (3) II (3) I	(3) L3B (3) L84 / L87 (3) LZ0	(3) Ground (3) Ground (3) Ground	(3) 3	(3) 0.5 (3) 1 (3) 0.5	(3) BK (3) BK (3) BK	(3) 450 (3) 450 (3) 655 0	(3) III (3) III (3) III	(3) L3B (3) L84 / L87 (3) LZ0

X618L Active Grille Air Shutter Wiring Harness to Active Grille Air Shutter Jumper Wiring Harness (WMI)



- Connector Part Information**

 - Harness Type: Active Grille Air Shutter Wiring Harness
 - OEM Connector: 13526813
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 3-Way F 1.5 Series, Sealed(BK)
- Connector Part Information**

 - Harness Type: Active Grille Air Shutter Jumper Wiring Harness
 - OEM Connector: 13526822
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 3-Way M 1.5 MX Series, Sealed(BK)

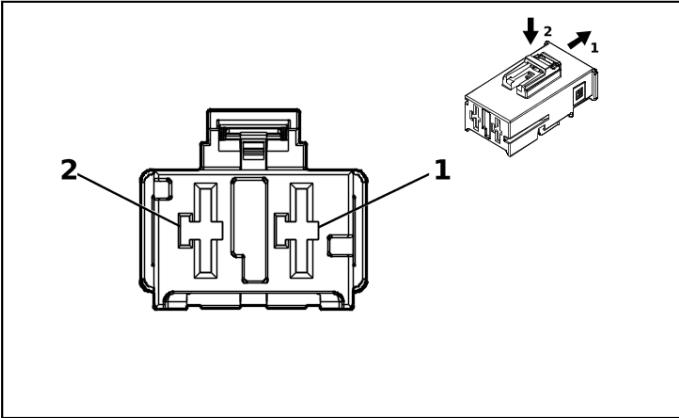
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-3 (GY)	No Tool Required
II	Not required	J-35616-14 (GN)	No Tool Required

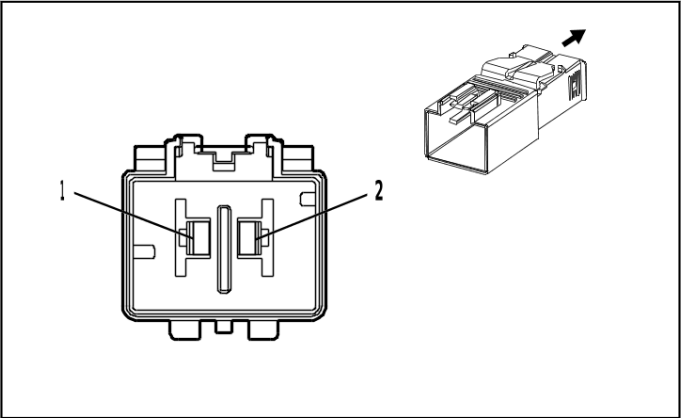
X618L Active Grille Air Shutter Wiring Harness to Active Grille Air Shutter Jumper Wiring Harness (WMI)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BU	(1) 5705	(1) I	(1) —	(1) Powertrain Main Relay Control	(1) 1	(1) 0.5	(1) VT / BU	(1) 5705	(1) II	(1) —
(2) 2	(2) 0.5	(2) GN / VT	(2) 4621	(2) I	(2) —	(2) Engine Control Module LIN Bus 1	(2) 2	(2) 0.5	(2) GN / VT	(2) 4621	(2) II	(2) —
(3) 3	(3) 0.5 (3) 0.5	(3) BK (3) BK	(3) 450 (3) 6550	(3) I (3) I	(3) L3B/ L84/ L87 (3) LZ0	(3) Ground (3) Ground	(3) 3	(3) 0.5 (3) 0.5	(3) BK (3) BK	(3) 450 (3) 6550	(3) II (3) II	(3) L3B/ L84/ L87 (3) LZ0

X630 Auxiliary Fuse Block Wiring Harness to Auxiliary Fuse Block Wiring Harness



5187955



4891120

Connector Part Information

- Harness Type: Auxiliary Fuse Block Wiring Harness
- OEM Connector: 2317368-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 9.5 MCON-LL Series(BK)

Connector Part Information

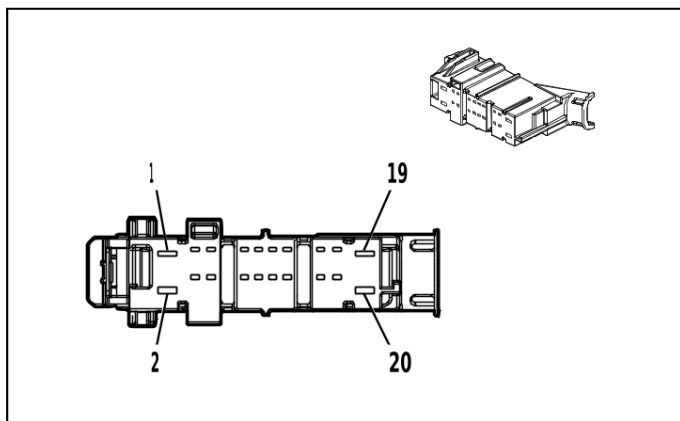
- Harness Type: Auxiliary Fuse Block Wiring Harness
- OEM Connector: 2317373-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 9.5 MCON-LL Series(BK)

Terminal Part Information

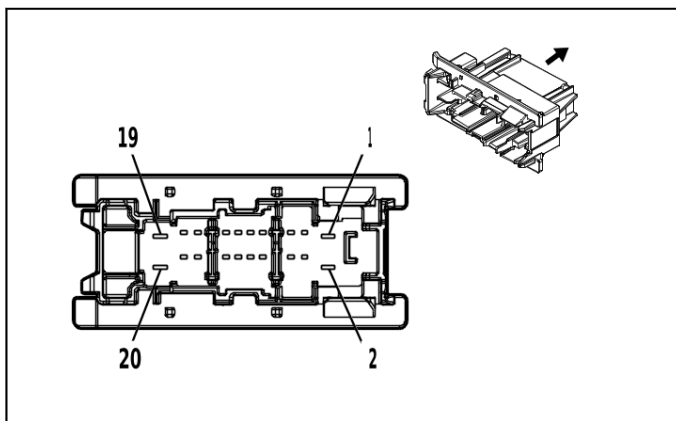
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-22 (RD)	No Tool Required
II	Not required	J-35616-21 (RD)	No Tool Required

X630 Auxiliary Fuse Block Wiring Harness to Auxiliary Fuse Block Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 1 0	(1) RD /VT	(1) 542	(1) I	(1) —	(1) Battery Positive Volt- age	(1) 1	(1) 1 0	(1) RD /VT	(1) 542	(1) II	(1) —
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—

X700 Rear Side Door Door Wiring Harness - Left Rear to Body Wiring Harness

4650257



4663657

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Left Rear
- OEM Connector: 6098-8196
- Service Connector: Service by Harness - See Part Catalog
- Description: 20-Way F 1.2 MCON, 2.8 MCP Series(BK)

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 6098-8887
- Service Connector: 13527239
- Description: 20-Way M 1.2 MCON, 2.8 MCP Series(BK)

Terminal Part Information

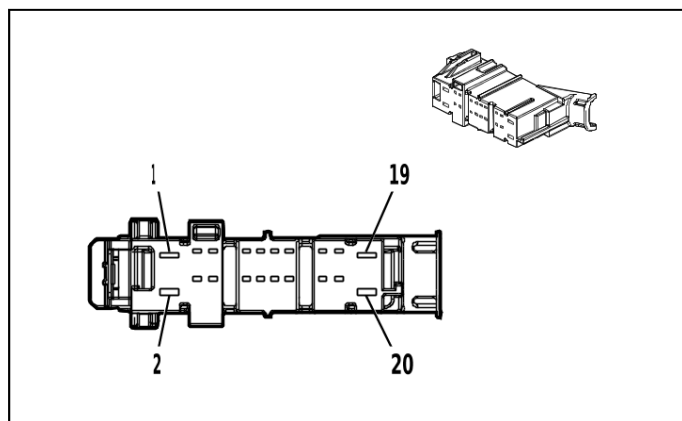
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-35 (VT)	No Tool Required
III	13586064	J-35616-5 (PU)	J-38125-212
IV	84616651	J-35616-13 (BU)	J-38125-215A
V	84726946	J-35616-13 (BU)	J-38125-215A

X700 Rear Side Door Door Wiring Harness - Left Rear to Body Wiring Harness

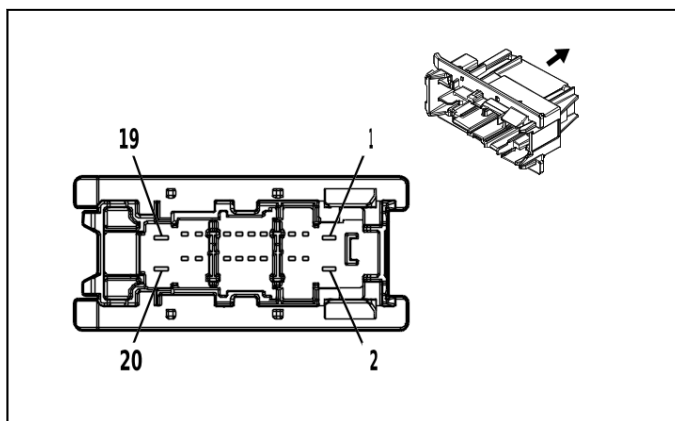
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) RD / BU	(1) 324 ₀	(1) II	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 2.5	(1) RD / BU	(1) 324 ₀	(1) III	(1) —
2 - 5	—	—	—	—	—	Not Occupied	2 - 5	—	—	—	—	—
(6) 6	(6) 0.75	(6) W _H	(6) 267 ₉	(6) I	(6) —	(6) Lock Actuators Unlock Control 1	(6) 6	(6) 0.75	(6) W _H	(6) 267 ₉	(6) IV	(6) —
(7) 7	(7) 0.75	(7) BU / YE	(7) 109 ₁	(7) I	(7) —	(7) Left Rear Door Lock Actuator Lock Control	(7) 7	(7) 0.75	(7) BU / YE	(7) 109 ₁	(7) IV	(7) —
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—
(9) 9	(9) 0.5	(9) BK / OG	(9) 662 ₃	(9) I	(9) —	(9) Left Rear Side Impact Sensor Low Reference	(9) 9	(9) 0.5	(9) BK / OG	(9) 662 ₃	(9) IV	(9) —
10	—	—	—	—	—	Not Occupied	10	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(11) 11	(11) 0.5	(11) O G / BU	(11) 66 22	(11) I	(11) —	(11) Left Rear Side Impact Sensor Signal	(11) 11	(11) 0.5	(11) O G / BU	(11) 66 22	(11) IV	(11) —
(12) 12	(12) 0.5	(12) G N / GY	(12) 61 35	(12) I	(12) —	(12) Body Control Module LIN Bus 4	(12) 12	(12) 0.35	(12) G N / GY	(12) 61 35	(12) IV	(12) —
13 - 16	—	—	—	—	—	Not Occupied	13 - 16	—	—	—	—	—
(17) 17	(17) 0.75	(17) G N	(17) 19 9	(17) I	(17) —	(17) Left Rear Speaker [+] Control (17) Left Rear Speaker [+] Control	(17) 17	(17) 1.5 (17) 0.75	(17) G N (17) G N	(17) 19 9 (17) 19 9	(17) V (17) IV	(17) UQS (17) UQA/ UQF
(18) 18	(18) 0.75	(18) G N / BK	(18) 11 6	(18) I	(18) —	(18) Left Rear Speaker [-] Control (18) Left Rear Speaker [-] Control	(18) 18	(18) 1.5 (18) 0.75	(18) G N / BK (18) G N / BK	(18) 11 6 (18) 11 6	(18) V (18) IV	(18) UQS (18) UQA/ UQF
19	—	—	—	—	—	Not Occupied	19	—	—	—	—	—
(20) 20	(20) 2.5	(20) B K	(20) 15 50	(20) II	(20) —	(20) Ground	(20) 20	(20) 2.5	(20) B K	(20) 15 50	(20) III	(20) —

X800 Rear Side Door Door Wiring Harness - Right Rear to Body Wiring Harness



4650257



4663657

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Right Rear
- OEM Connector: 6098-8196
- Service Connector: Service by Harness - See Part Catalog
- Description: 20-Way F 1.2 MCON, 2.8 MCP Series(BK)

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 6098-8887
- Service Connector: 13527239
- Description: 20-Way M 1.2 MCON, 2.8 MCP Series(BK)

Terminal Part Information

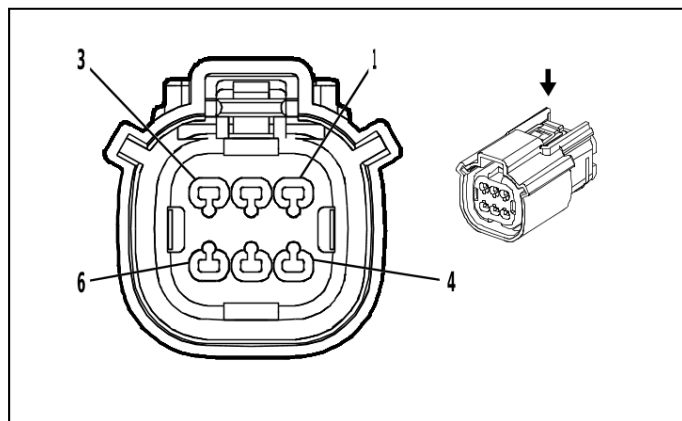
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-35 (VT)	No Tool Required
III	13586064	J-35616-5 (PU)	J-38125-212

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
IV	84616651	J-35616-13 (BU)	J-38125-215A
V	84726946	J-35616-13 (BU)	J-38125-215A

X800 Rear Side Door Door Wiring Harness - Right Rear to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) YE / BK	(1) 484 0	(1) II	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 2.5	(1) RD / GY	(1) 484 0	(1) III	(1) —
2 - 5	—	—	—	—	—	Not Occupied	2 - 5	—	—	—	—	—
(6) 6	(6) 0.75	(6) GY / BK	(6) 268 0	(6) I	(6) —	(6) Lock Actuators Unlock Control 2	(6) 6	(6) 0.75	(6) GY / BK	(6) 268 0	(6) IV	(6) —
(7) 7	(7) 0.75	(7) VT / WH	(7) 109 4	(7) I	(7) —	(7) Right Rear Door Lock Actuator Lock Control	(7) 7	(7) 0.75	(7) VT / WH	(7) 109 4	(7) IV	(7) —
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—
(9) 9	(9) 0.5	(9) BK / OG	(9) 662 7	(9) I	(9) —	(9) Right Rear Side Impact Sensor Low Reference	(9) 9	(9) 0.5	(9) BK / OG	(9) 662 7	(9) IV	(9) —
10	—	—	—	—	—	Not Occupied	10	—	—	—	—	—
(11) 11	(11) 0.5	(11) OG / WH	(11) 66 26	(11) I	(11) —	(11) Right Rear Side Impact Sensor Signal	(11) 11	(11) 0.5	(11) OG / WH	(11) 66 26	(11) IV	(11) —
(12) 12	(12) 0.5	(12) GN / GY	(12) 61 35	(12) I	(12) —	(12) Body Control Module LIN Bus 4	(12) 12	(12) 0.35	(12) GN / GY	(12) 61 35	(12) IV	(12) —
13 - 16	—	—	—	—	—	Not Occupied	13 - 16	—	—	—	—	—
(17) 17	(17) 0.75	(17) WH	(17) 46	(17) I	(17) —	(17) Right Rear Speaker [+] Control (17) Right Rear Speaker [+] Control	(17) 17	(17) 1.5 (17) 0.75	(17) WH (17) WH	(17) 46 (17) 46	(17) V (17) IV	(17) UQS (17) UQA/ UQF
(18) 18	(18) 0.75	(18) BU / BK	(18) 11 5	(18) I	(18) —	(18) Right Rear Speaker [-] Control (18) Right Rear Speaker [-] Control	(18) 18	(18) 1.5 (18) 0.75	(18) BU / BK (18) BU / BK	(18) 11 5 (18) 11 5	(18) V (18) IV	(18) UQS (18) UQA/ UQF
19	—	—	—	—	—	Not Occupied	19	—	—	—	—	—
(20) 20	(20) 2.5	(20) BK	(20) 13 50	(20) II	(20) —	(20) Ground	(20) 20	(20) 2.5	(20) BK	(20) 13 50	(20) III	(20) —

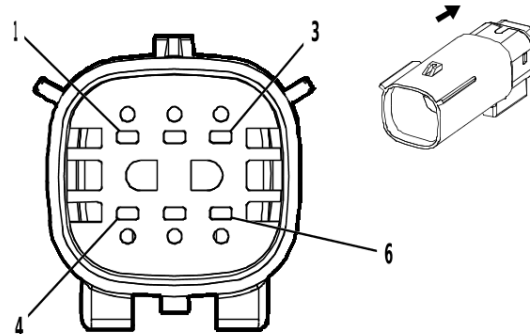
X910 Rear Body Structure Stop Lamp to Chassis Wiring Harness



1986157

Connector Part Information

- Harness Type: Rear Body Structure Stop Lamp
- OEM Connector: 33472-0606
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.5 MX Series, Sealed(BK)



1986159

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 33482-3601
- Service Connector: 19367742
- Description: 6-Way M 1.5 MX Series, Sealed(BK)

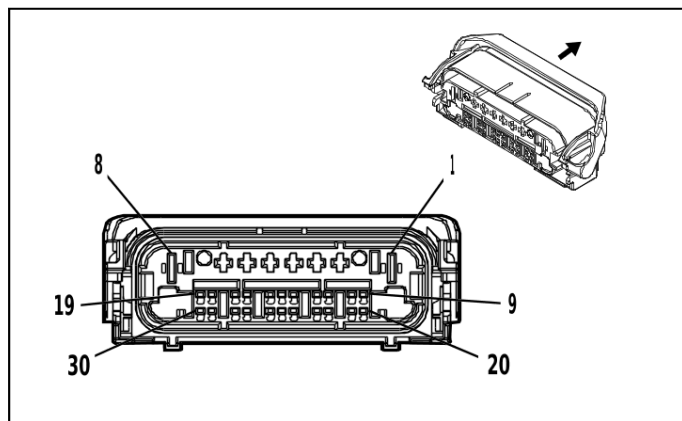
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X910 Rear Body Structure Stop Lamp to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN	(1) 699 3	(1) I	(1) —	(1) Left Rear Park Lamp Control	(1) 1	(1) 0.75	(1) BN / BU	(1) 699 3	(1) II	(1) —
(2) 2	(2) 0.75	(2) RD	(2) 656 7	(2) I	(2) —	(2) Rear Turn Signal Lamp Feedback Signal	(2) 2	(2) 0.75	(2) W H / VT	(2) 656 7	(2) II	(2) —
(3) 3	(3) 0.75	(3) BU	(3) 776 2	(3) I	(3) —	(3) Cargo Lamp Control	(3) 3	(3) 0.5	(3) GY / BU	(3) 776 2	(3) II	(3) —
(4) 4	(4) 0.75	(4) G N	(4) 24	(4) I	(4) —	(4) Backup Lamp Control	(4) 4	(4) 0.5	(4) G N / WH	(4) 24	(4) II	(4) —
(5) 5	(5) 0.75	(5) G N	(5) 133 4	(5) I	(5) —	(5) Left Rear Turn Signal Lamp Control 2	(5) 5	(5) 0.75	(5) BU / WH	(5) 133 4	(5) II	(5) —
(6) 6	(6) 0.75	(6) BK	(6) 195 1	(6) I	(6) —	(6) Signal Ground	(6) 6	(6) 0.75	(6) BK	(6) 195 1	(6) II	(6) —

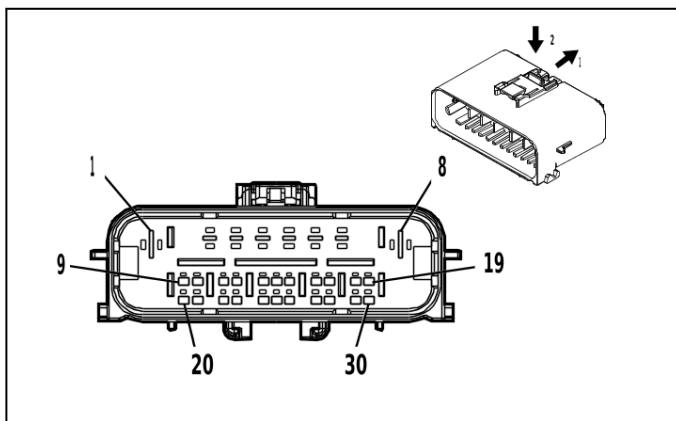
X918 Endgate Wiring Harness to Chassis Wiring Harness



4650150

Connector Part Information

- Harness Type: Endgate Wiring Harness
- OEM Connector: 35573111
- Service Connector: Service by Harness - See Part Catalog
- Description: 30-Way F 1.2 MCON, 2.8, 6.3 MCP Series, Sealed(BK)



4817393

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 2301461-1
- Service Connector: 19371177
- Description: 30-Way M 1.2 MCON, 2.8, 6.3 MCP Series, Sealed(BK)

Terminal Part Information

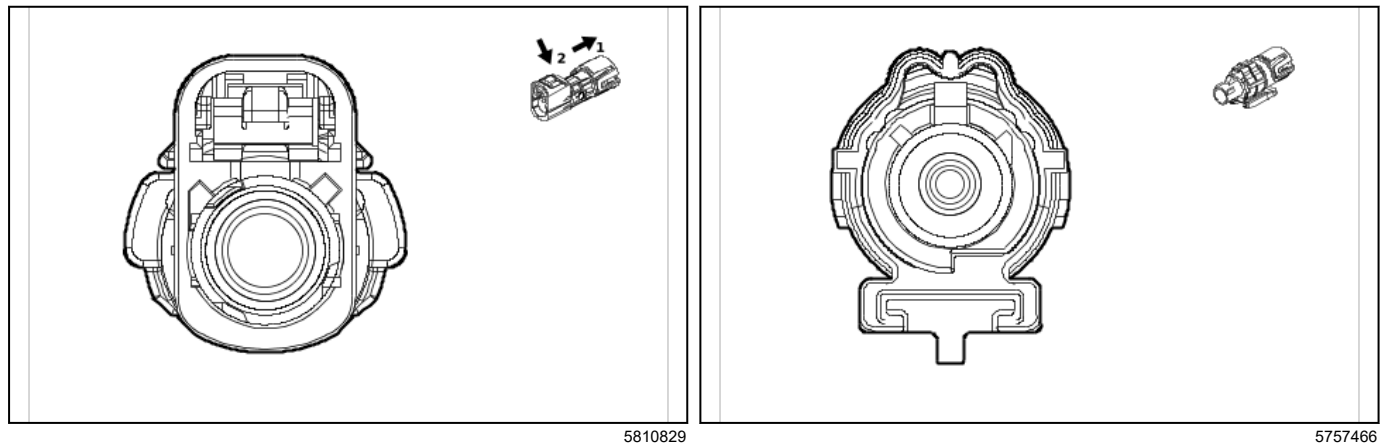
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-35 (VT)	No Tool Required
III	Not required	J-35616-4A (PU)	No Tool Required
IV	13578827	J-35616-5 (PU)	J-38125-36
V	19330704	J-35616-13 (BU)	J-38125-215A

X918 Endgate Wiring Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
(2) 2	(2) 2.5	(2) RD / VT	(2) 444 ₂	(2) II	(2) —	(2) Primary Fused Battery Positive Voltage	(2) 2	(2) 2.5	(2) RD / VT	(2) 444 ₂	(2) IV	(2) —
(3) 3	(3) 2.5	(3) BK	(3) 185 ₀	(3) II	(3) —	(3) Ground	(3) 3	(3) 2.5	(3) BK	(3) 185 ₀	(3) IV	(3) —
(4) 4	(4) 1	(4) VT	(4) 772 ₅	(4) III	(4) —	(4) Minor Endgate Motor Control	(4) 4	(4) 1	(4) VT	(4) 772 ₅	(4) IV	(4) —
(5) 5	(5) 1	(5) YE / BK	(5) 773 ₀	(5) III	(5) —	(5) Major Endgate Motor Low Reference	(5) 5	(5) 1	(5) YE / BK	(5) 773 ₀	(5) IV	(5) —
(6) 6	(6) 1	(6) G _N	(6) 129 ₉	(6) III	(6) —	(6) Major Endgate Motor Control	(6) 6	(6) 1	(6) G _N	(6) 129 ₉	(6) IV	(6) —
7 - 8	—	—	—	—	—	Not Occupied	7 - 8	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(9) 9	(9) 0.5	(9) W H / VT	(9) 143 0	(9) I	(9) —	(9) Exterior Courtesy Lamp Control	(9) 9	(9) 0.5	(9) W H / VT	(9) 143 0	(9) V	(9) —
(10) 10	(10) 0.5	(10) Y E	(10) 72 94	(10) I	(10) —	(10) Minor Endgate Release Switch Discrete Signal Exterior	(10) 10	(10) 0.5	(10) Y E	(10) 72 94	(10) V	(10) —
(11) 11	(11) 0.75	(11) Y E / BU	(11) 72 95	(11) I	(11) —	(11) Left Minor Endgate Ajar Signal	(11) 11	(11) 0.75	(11) Y E / BU	(11) 72 95	(11) V	(11) —
12 - 17	—	—	—	—	—	Not Occupied	12 - 17	—	—	—	—	—
(18) 18	(18) 0.5	(18) B U / VT	(18) 41 01	(18) I	(18) —	(18) AUTOSA R CAN Bus [+] 4 Serial Data	(18) 18	(18) 0.5	(18) B U / VT	(18) 41 01	(18) V	(18) —
(19) 19	(19) 0.5	(19) WH	(19) 41 00	(19) I	(19) —	(19) AUTOSA R CAN Bus [-] 4 Serial Data	(19) 19	(19) 0.5	(19) WH	(19) 41 00	(19) V	(19) —
(20) 20	(20) 0.5	(20) Y E	(20) 11 44	(20) I	(20) —	(20) Endgate Release Switch Discrete Signal Exterior	(20) 20	(20) 0.5	(20) Y E	(20) 11 44	(20) V	(20) —
(21) 21	(21) 0.5	(21) G Y	(21) 72 92	(21) I	(21) —	(21) Major Endgate Release Switch Signal Exterior	(21) 21	(21) 0.5	(21) G Y	(21) 72 92	(21) V	(21) —
22 - 28	—	—	—	—	—	Not Occupied	22 - 28	—	—	—	—	—
(29) 29	(29) 0.5	(29) WH	(29) 41 00	(29) I	(29) —	(29) AUTOSA R CAN Bus [-] 4 Serial Data	(29) 29	(29) 0.5	(29) WH	(29) 41 00	(29) V	(29) —
(30) 30	(30) 0.5	(30) B U / VT	(30) 41 01	(30) I	(30) —	(30) AUTOSA R CAN Bus [+] 4 Serial Data	(30) 30	(30) 0.5	(30) B U / VT	(30) 41 01	(30) V	(30) —

X919 Endgate Wiring Harness to Chassis Wiring Harness



- Connector Part Information**

 - Harness Type: Endgate Wiring Harness COAX
 - OEM Connector: 35187033
 - Service Connector: Service by Cable Assembly — See Part Catalog
 - Description: 1-Way F Coax Type(WH)
- Connector Part Information**

 - Harness Type: Chassis Wiring Harness COAX
 - OEM Connector: 33338240
 - Service Connector: Service by Cable Assembly — See Part Catalog
 - Description: 1-Way M Coax Type, Sealed(WH)

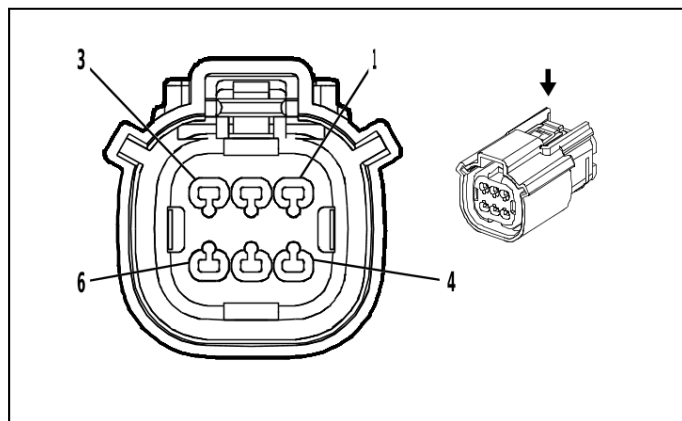
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X919 Endgate Wiring Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax Cable	—	I	—	Rear Vision Camera Coaxial Video Signal	—	—	Coax Cable	—	I	—

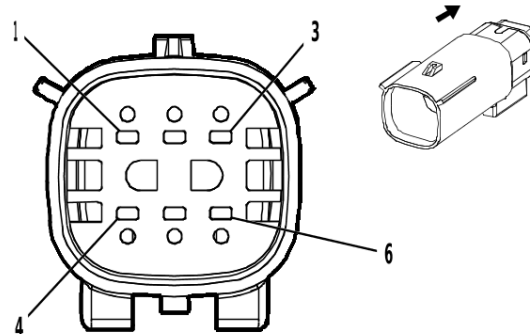
X920 Tail Lamp Wiring Harness - Right to Chassis Wiring Harness



1986157

Connector Part Information

- Harness Type: Tail Lamp Wiring Harness - Right
- OEM Connector: 33472-0606
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.5 MX Series, Sealed(BK)



1986159

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 33482-3601
- Service Connector: 19367742
- Description: 6-Way M 1.5 MX Series, Sealed(BK)

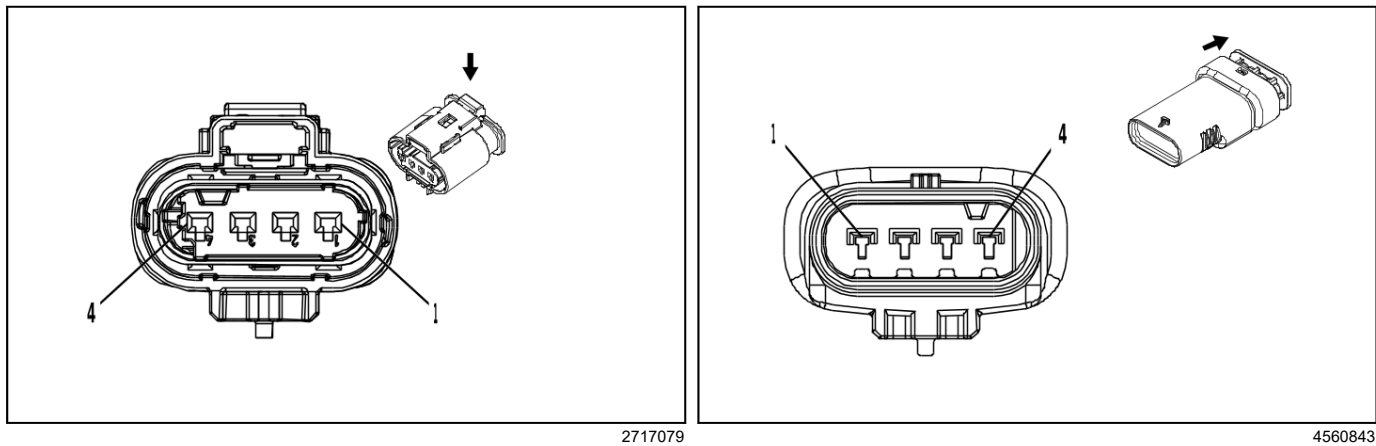
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X920 Tail Lamp Wiring Harness - Right to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN	(1) 699 5	(1) I	(1) —	(1) Right Rear Park Lamp Control	(1) 1	(1) 0.75	(1) BN / GY	(1) 699 5	(1) II	(1) —
(2) 2	(2) 0.75	(2) RD	(2) 754 4	(2) I	(2) —	(2) Right Rear Turn Signal Lamp Feedback Signal	(2) 2	(2) 0.75	(2) W H / BK	(2) 754 4	(2) II	(2) —
(3) 3	(3) 0.75	(3) BU	(3) 776 2	(3) I	(3) —	(3) Cargo Lamp Control	(3) 3	(3) 0.5	(3) GY / BU	(3) 776 2	(3) II	(3) —
(4) 4	(4) 0.75	(4) G N	(4) 24	(4) I	(4) —	(4) Backup Lamp Control	(4) 4	(4) 0.5	(4) G N / WH	(4) 24	(4) II	(4) —
(5) 5	(5) 0.75	(5) G N	(5) 133 5	(5) I	(5) —	(5) Right Rear Turn Signal Lamp Control 2	(5) 5	(5) 0.75	(5) BU / VT	(5) 133 5	(5) II	(5) —
(6) 6	(6) 0.75	(6) BK	(6) 185 0	(6) I	(6) —	(6) Ground	(6) 6	(6) 0.75	(6) BK	(6) 185 0	(6) II	(6) —

X944 Engine Wiring Harness to Engine Coolant Temperature Sensor Harness (LZ0)



- Connector Part Information**

 - Harness Type: Engine Wiring Harness
 - OEM Connector: 10010346
 - Service Connector: 13587299
 - Description: 4-Way F 1.2 Multilock Series, Sealed(BK)
- Connector Part Information**

 - Harness Type: Engine Coolant Temperature Sensor Harness
 - OEM Connector: 13503594
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 4-Way M 1.2 Multilock Series, Sealed(GY)

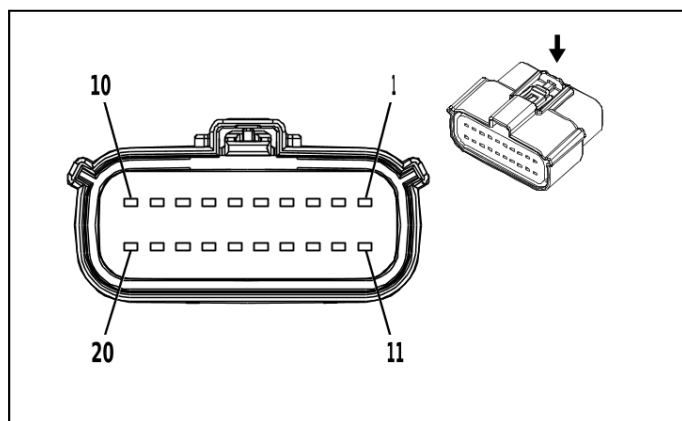
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-13 (BU)	No Tool Required

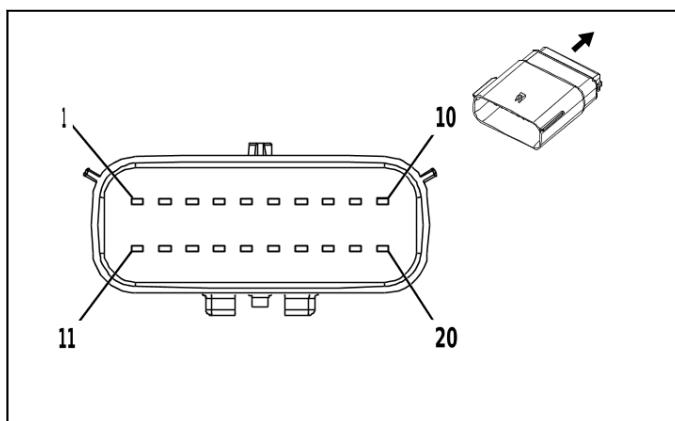
X944 Engine Wiring Harness to Engine Coolant Temperature Sensor Harness (LZ0)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 2	—	—	—	—	—	Not Occupied	1 - 2	—	—	—	—	—
(3) 3	(3) 0.5	(3) VT	(3) 298 ₈	(3) I	(3) —	(3) Engine Outlet Coolant Temperature Signal	(3) 3	(3) 0.5	(3) VT	(3) 298 ₈	(3) II	(3) —
(4) 4	(4) 0.5	(4) BK / GY	(4) 626	(4) I	(4) —	(4) Engine Control Vehicle Sensors Low Reference 1	(4) 4	(4) 0.5	(4) BK / GY	(4) 626	(4) II	(4) —

X950 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness



2871898



2871861

Connector Part Information

- Harness Type: Rear Object Alarm Sensor Wiring Harness
- OEM Connector: 33472-2006
- Service Connector: Service by Harness - See Part Catalog
- Description: 20-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 33482-2117
- Service Connector: 19351705
- Description: 20-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

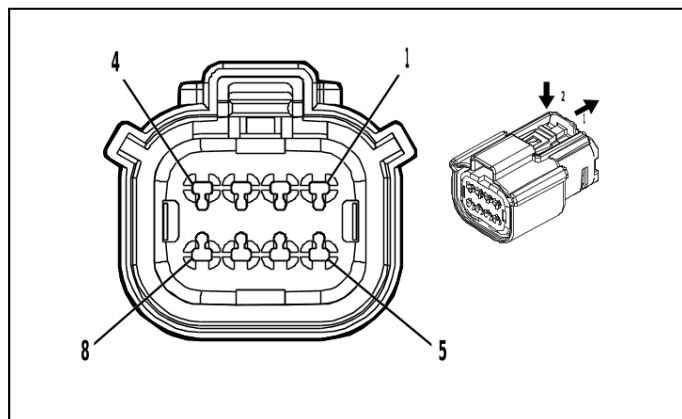
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	86800300	J-35616-3 (GY)	J-38125-217

X950 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / GN	(1) 6940	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / GN	(1) 6940	(1) II	(1) —
(2) 2	(2) 0.5	(2) RD / BU	(2) 5240	(2) I	(2) —	(2) Battery Positive Voltage	(2) 2	(2) 0.5	(2) RD / BU	(2) 5240	(2) II	(2) —
(3) 3	(3) 0.5	(3) W _H	(3) 4100	(3) I	(3) —	(3) AUTOSAR CAN Bus [-] 4 Serial Data	(3) 3	(3) 0.5	(3) W _H	(3) 4100	(3) II	(3) —
(4) 4	(4) 0.5	(4) BU / VT	(4) 4101	(4) I	(4) —	(4) AUTOSAR CAN Bus [+] 4 Serial Data	(4) 4	(4) 0.5	(4) BU / VT	(4) 4101	(4) II	(4) —
(5) 5	(5) 0.5	(5) W _H / GY	(5) 4104	(5) I	(5) —	(5) AUTOSAR CAN Bus [-] 8 Serial Data	(5) 5	(5) 0.5	(5) W _H / GY	(5) 4104	(5) II	(5) —
(6) 6	(6) 0.5	(6) BU / GY	(6) 4105	(6) I	(6) —	(6) AUTOSAR CAN Bus [+] 8 Serial Data	(6) 6	(6) 0.5	(6) BU / GY	(6) 4105	(6) II	(6) —
(7) 7	(7) 0.5	(7) W _H / GY	(7) 4104	(7) I	(7) —	(7) AUTOSAR CAN Bus [-] 8 Serial Data	(7) 7	(7) 0.5	(7) W _H / GY	(7) 4104	(7) II	(7) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(8) 8	(8) 0.5	(8) BU / GY	(8) 4105	(8) I	(8) —	(8) AUTOSAR CAN Bus [+] 8 Serial Data	(8) 8	(8) 0.5	(8) BU / GY	(8) 4105	(8) II	(8) —
(9) 9	(9) 0.5	(9) BN / WH	(9) 2374	(9) I	(9) —	(9) Object Sensor Voltage Reference	(9) 9	(9) 0.5	(9) BN / WH	(9) 2374	(9) II	(9) —
(10) 10	(10) 0.5	(10) Y E	(10) 2375	(10) I	(10) —	(10) Left Rear Outer Parking Assist Sensor Signal	(10) 10	(10) 0.5	(10) Y E	(10) 2375	(10) II	(10) —
(11) 11	(11) 0.5	(11) Y E / BU	(11) 2376	(11) I	(11) —	(11) Left Rear Middle Parking Assist Sensor Signal	(11) 11	(11) 0.5	(11) Y E / BU	(11) 2376	(11) II	(11) —
(12) 12	(12) 0.5	(12) Y E / WH	(12) 2377	(12) I	(12) —	(12) Right Rear Middle Parking Assist Sensor Signal	(12) 12	(12) 0.5	(12) Y E / WH	(12) 2377	(12) II	(12) —
(13) 13	(13) 0.5	(13) Y E / VT	(13) 2378	(13) I	(13) —	(13) Right Rear Outer Parking Assist Sensor Signal	(13) 13	(13) 0.5	(13) Y E / VT	(13) 2378	(13) II	(13) —
(14) 14	(14) 0.5	(14) B K / GY	(14) 2379	(14) I	(14) —	(14) Object Sensor Low Reference	(14) 14	(14) 0.5	(14) B K / GY	(14) 2379	(14) II	(14) —
(15) 15	(15) 0.5	(15) G N / YE	(15) 6846	(15) I	(15) —	(15) Rear License Plate Lamp Control	(15) 15	(15) 0.5	(15) G N / YE	(15) 6846	(15) II	(15) —
(16) 16	(16) 0.75	(16) B K	(16) 1850	(16) I	(16) —	(16) Ground	(16) 16	(16) 0.75	(16) B K	(16) 1850	(16) II	(16) —
(17) 17	(17) 0.5	(17) B K / WH	(17) 1951	(17) I	(17) —	(17) Signal Ground	(17) 17	(17) 0.5	(17) B K / WH	(17) 1951	(17) II	(17) —
18 - 20	—	—	—	—	—	Not Occupied	18 - 20	—	—	—	—	—

X961 Engine Wiring Harness to Valve Rocker Arm Oil Control Valve Extension Harness



4846407

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 33472-4806
- Service Connector: 84928314
- Description: 8-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

- Harness Type: Valve Rocker Arm Oil Control Valve Extension Harness
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way M (BK)

Terminal Part Information

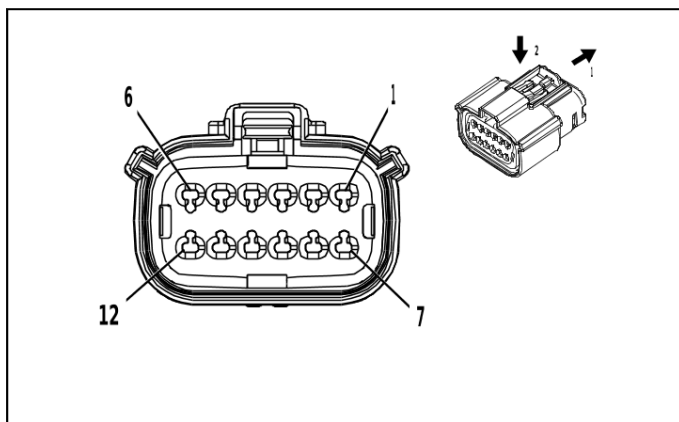
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	No Tool Required	No Tool Required

X961 Engine Wiring Harness to Valve Rocker Arm Oil Control Valve Extension Harness

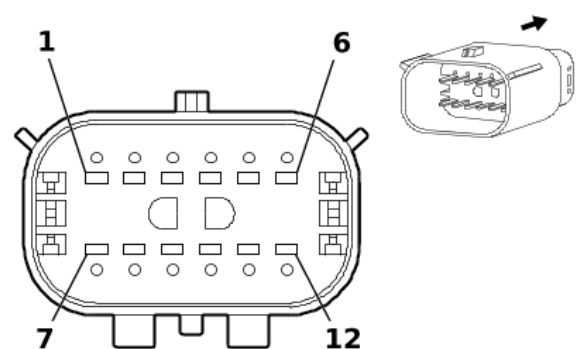
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) W H / GN	(1) 249 2	(1) I	(1) —	(1) Cylinder Shutoff Solenoid Enable Signal 2	(1) 1	(1) 0.5	(1) W H / GN	(1) 249 2	(1) II	(1) —
(2) 2	(2) 0.5	(2) G N	(2) 549 2	(2) I	(2) —	(2) Cylinder Deactivation Solenoid Valve Control 2	(2) 2	(2) 0.5	(2) G N	(2) 549 2	(2) II	(2) —
(3) 3	(3) 0.5	(3) YE / GY	(3) 249 3	(3) I	(3) —	(3) Cylinder Shutoff Solenoid Enable Signal 3	(3) 3	(3) 0.5	(3) YE / GY	(3) 249 3	(3) II	(3) —
(4) 4	(4) 0.5	(4) GY	(4) 549 3	(4) I	(4) —	(4) Cylinder Deactivation Solenoid Valve Control 3	(4) 4	(4) 0.5	(4) GY	(4) 549 3	(4) II	(4) —
(5) 5	(5) 0.5	(5) W H / VT	(5) 249 5	(5) I	(5) —	(5) Cylinder Shutoff Solenoid Enable Signal 5	(5) 5	(5) 0.5	(5) W H / VT	(5) 249 5	(5) II	(5) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(6) 6	(6) 0.5	(6) VT	(6) 549 ₅	(6) I	(6) —	(6) Cylinder Deactivation Solenoid Valve Control 5	(6) 6	(6) 0.5	(6) VT	(6) 549 ₅	(6) II	(6) —
(7) 7	(7) 0.5	(7) W H / YE	(7) 249 ₈	(7) I	(7) —	(7) Cylinder Shutoff Solenoid Enable Signal 8	(7) 7	(7) 0.5	(7) W H / YE	(7) 249 ₈	(7) II	(7) —
(8) 8	(8) 0.5	(8) YE	(8) 549 ₈	(8) I	(8) —	(8) Cylinder Deactivation Solenoid Valve Control 8	(8) 8	(8) 0.5	(8) YE	(8) 549 ₈	(8) II	(8) —

X962 Engine Wiring Harness to Valve Rocker Arm Oil Control Valve Extension Harness



2871860



1825167

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 33472-1266
- Service Connector: 19352907
- Description: 12-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

- Harness Type: Valve Rocker Arm Oil Control Valve Extension Harness
- OEM Connector: 33482-6260
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way M 1.5 MX Series, Sealed(BK)

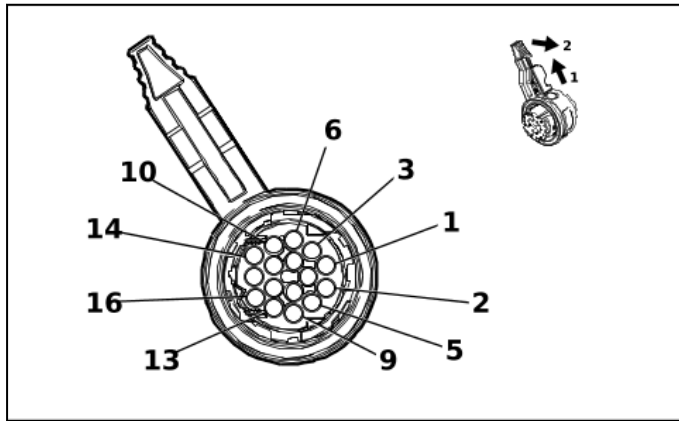
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217
II	Not required	J-35616-3 (GY)	No Tool Required

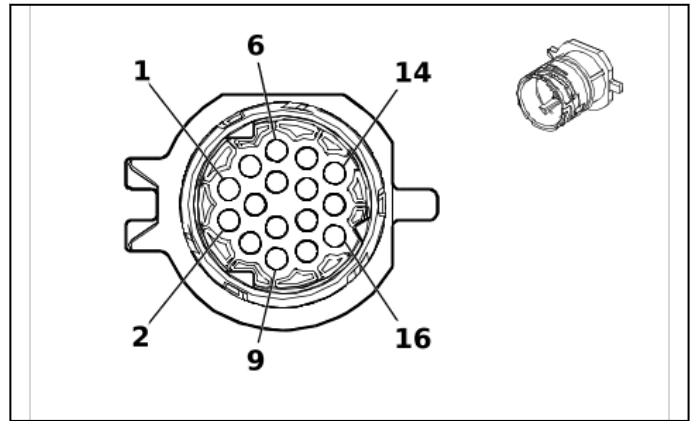
X962 Engine Wiring Harness to Valve Rocker Arm Oil Control Valve Extension Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) W H / BU	(1) 249 1	(1) I	(1) —	(1) Cylinder Shutoff Solenoid Enable Signal 1	(1) 1	(1) 0.5	(1) W H / BU	(1) 249 1	(1) II	(1) —
(2) 2	(2) 0.5	(2) BU / VT	(2) 549 1	(2) I	(2) —	(2) Cylinder Deactivation Solenoid Valve Control 1	(2) 2	(2) 0.5	(2) BU	(2) 549 1	(2) II	(2) —
(3) 3	(3) 0.5	(3) YE / GN	(3) 249 4	(3) I	(3) —	(3) Cylinder Shutoff Solenoid Enable Signal 4	(3) 3	(3) 0.5	(3) YE / GN	(3) 249 4	(3) II	(3) —
(4) 4	(4) 0.5	(4) YE / BU	(4) 549 4	(4) I	(4) —	(4) Cylinder Deactivation Solenoid Valve Control 4	(4) 4	(4) 0.5	(4) YE / BU	(4) 549 4	(4) II	(4) —
(5) 5	(5) 0.5	(5) YE / BN	(5) 249 6	(5) I	(5) —	(5) Cylinder Shutoff Solenoid Enable Signal 6	(5) 5	(5) 0.5	(5) YE / BN	(5) 249 6	(5) II	(5) —
(6) 6	(6) 0.5	(6) BN	(6) 549 6	(6) I	(6) —	(6) Cylinder Deactivation Solenoid Valve Control 6	(6) 6	(6) 0.5	(6) BN	(6) 549 6	(6) II	(6) —
(7) 7	(7) 0.5	(7) G N / GY	(7) 249 7	(7) I	(7) —	(7) Cylinder Shutoff Solenoid Enable Signal 7	(7) 7	(7) 0.5	(7) G N / GY	(7) 249 7	(7) II	(7) —
(8) 8	(8) 0.5	(8) W H	(8) 549 7	(8) I	(8) —	(8) Cylinder Deactivation Solenoid Valve Control 7	(8) 8	(8) 0.5	(8) W H	(8) 549 7	(8) II	(8) —
(9) 9	(9) 0.5	(9) BU	(9) 410	(9) I	(9) —	(9) Engine Coolant Temperature Sensor Signal	(9) 9	(9) 0.5	(9) BU	(9) 410	(9) II	(9) —
(10) 10	(10) 0.5	(10) B K / GY	(10) 62 6	(10) I	(10) —	(10) Engine Control Vehicle Sensors Low Reference 1	(10) 10	(10) 0.5	(10) B K / YE	(10) 62 6	(10) II	(10) —
11 - 12	—	—	—	—	—	Not Occupied	11 - 12	—	—	—	—	—

X963 Valve Rocker Arm Oil Control Valve Extension Harness to Valve Rocker Arm Oil Control Valve Harness (L84 / L87)



5573634



5575849

Connector Part Information

- Harness Type: Valve Rocker Arm Oil Control Valve Extension Harness
- OEM Connector: 10354998
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way F 1.5 RK Series, Sealed(BK)

Connector Part Information

- Harness Type: Valve Rocker Arm Oil Control Valve Harness
- OEM Connector: 10140573
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way M 1.5 RK Series, Sealed(BK)

Terminal Part Information

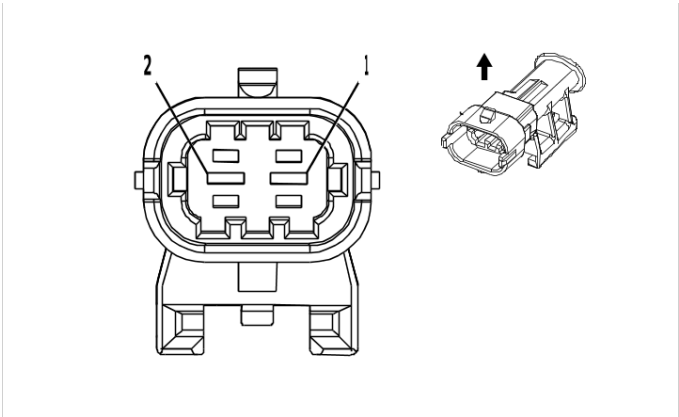
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X963 Valve Rocker Arm Oil Control Valve Extension Harness to Valve Rocker Arm Oil Control Valve Harness (L84 / L87)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) W H / GN	(1) 249 2	(1) I	(1) —	(1) Cylinder Shutoff Solenoid Enable Signal 2	(1) 1	(1) 0.5	(1) W H / GN	(1) 249 2	(1) II	(1) —
(2) 2	(2) 0.5	(2) G N	(2) 549 2	(2) I	(2) —	(2) Cylinder Deactivation Solenoid Valve Control 2	(2) 2	(2) 0.5	(2) G N	(2) 549 2	(2) II	(2) —
(3) 3	(3) 0.5	(3) YE / GY	(3) 249 3	(3) I	(3) —	(3) Cylinder Shutoff Solenoid Enable Signal 3	(3) 3	(3) 0.5	(3) YE / GY	(3) 249 3	(3) II	(3) —
(4) 4	(4) 0.5	(4) GY	(4) 549 3	(4) I	(4) —	(4) Cylinder Deactivation Solenoid Valve Control 3	(4) 4	(4) 0.5	(4) GY	(4) 549 3	(4) II	(4) —
(5) 5	(5) 0.5	(5) W H / VT	(5) 249 5	(5) I	(5) —	(5) Cylinder Shutoff Solenoid Enable Signal 5	(5) 5	(5) 0.5	(5) W H / VT	(5) 249 5	(5) II	(5) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(6) 6	(6) 0. 5	(6) VT	(6) 549 5	(6) I	(6) —	(6) Cylinder Deactivation Solenoid Valve Control 5	(6) 6	(6) 0. 5	(6) VT	(6) 549 5	(6) II	(6) —
(7) 7	(7) 0. 5	(7) W H / YE	(7) 249 8	(7) I	(7) —	(7) Cylinder Shutoff Solenoid Enable Signal 8	(7) 7	(7) 0. 5	(7) W H / YE	(7) 249 8	(7) II	(7) —
(8) 8	(8) 0. 5	(8) YE	(8) 549 8	(8) I	(8) —	(8) Cylinder Deactivation Solenoid Valve Control 8	(8) 8	(8) 0. 5	(8) YE	(8) 549 8	(8) II	(8) —
(9) 9	(9) 0. 5	(9) W H / BU	(9) 249 1	(9) I	(9) —	(9) Cylinder Shutoff Solenoid Enable Signal 1	(9) 9	(9) 0. 5	(9) W H / BU	(9) 249 1	(9) II	(9) —
(10) 10	(10) 0.5	(10) B U	(10) 54 91	(10) I	(10) —	(10) Cylinder Deactivation Solenoid Valve Control 1	(10) 10	(10) 0.5	(10) B U	(10) 54 91	(10) II	(10) —
(11) 11	(11) 0.5	(11) Y E / GN	(11) 24 94	(11) I	(11) —	(11) Cylinder Shutoff Solenoid Enable Signal 4	(11) 11	(11) 0.5	(11) Y E / GN	(11) 24 94	(11) II	(11) —
(12) 12	(12) 0.5	(12) Y E / BU	(12) 54 94	(12) I	(12) —	(12) Cylinder Deactivation Solenoid Valve Control 4	(12) 12	(12) 0.5	(12) Y E / BU	(12) 54 94	(12) II	(12) —
(13) 13	(13) 0.5	(13) Y E / BN	(13) 24 96	(13) I	(13) —	(13) Cylinder Shutoff Solenoid Enable Signal 6	(13) 13	(13) 0.5	(13) Y E / BN	(13) 24 96	(13) II	(13) —
(14) 14	(14) 0.5	(14) B N	(14) 54 96	(14) I	(14) —	(14) Cylinder Deactivation Solenoid Valve Control 6	(14) 14	(14) 0.5	(14) B N	(14) 54 96	(14) II	(14) —
(15) 15	(15) 0.5	(15) G N / GY	(15) 24 97	(15) I	(15) —	(15) Cylinder Shutoff Solenoid Enable Signal 7	(15) 15	(15) 0.5	(15) G N / GY	(15) 24 97	(15) II	(15) —
(16) 16	(16) 0.5	(16) WH	(16) 54 97	(16) I	(16) —	(16) Cylinder Deactivation Solenoid Valve Control 7	(16) 16	(16) 0.5	(16) WH	(16) 54 97	(16) II	(16) —

X977 Engine Wiring Harness Jumper to Accessory Wiring Harness (VYU)



2667643

- Connector Part Information**

 - Harness Type: Engine Wiring Harness Jumper
 - OEM Connector: Not Available
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 2-Way F
- Connector Part Information**

 - Harness Type: Accessory Wiring Harness
 - OEM Connector: 1 928 404 226
 - Service Connector: Service by Harness - See Part Catalog
 - Description: 2-Way M 2.8 Timer Series, Sealed(BK)

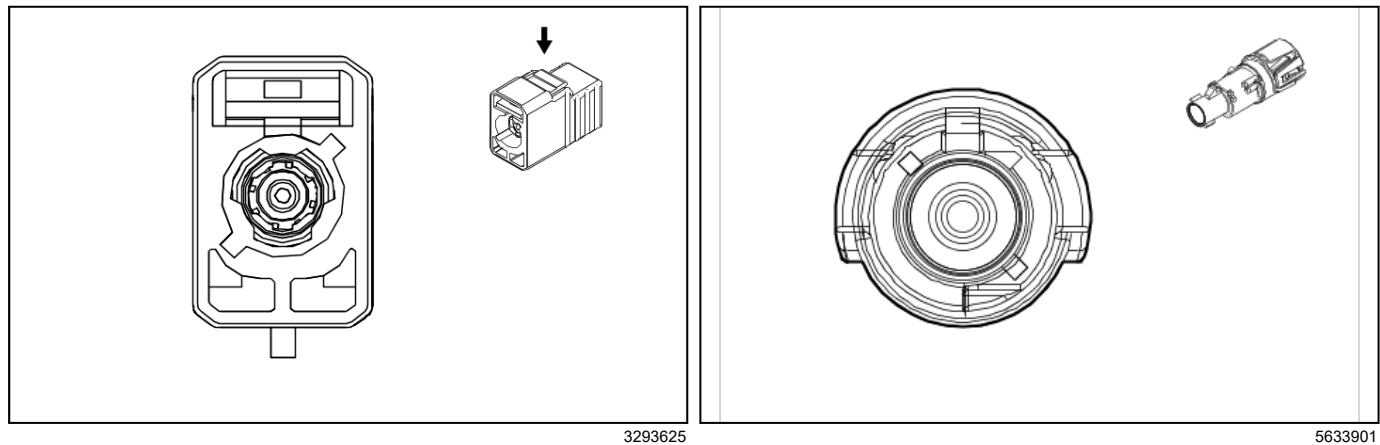
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

X977 Engine Wiring Harness Jumper to Accessory Wiring Harness (VYU)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 25	(1) I	(1) —	(1) Charge Indicator Control	(1) 1	(1) 0.5	(1) BN	(1) 25	(1) II	(1) —
(2) 2	(2) 0.5	(2) GY	(2) 23	(2) I	(2) —	(2) Generator Field Duty Cycle Signal	(2) 2	(2) 0.5	(2) GY	(2) 23	(2) II	(2) —

X985 Rearview Driver Information Camera Rear Closure Coaxial Cable to Inside Rearview Mirror Wiring Harness - Jumper (DRZ)



- Connector Part Information**
- Harness Type: Rearview Driver Information Camera Rear Closure Coaxial Cable COAX
 - OEM Connector: 13583914
 - Service Connector: Service by Cable Assembly — See Part Catalog
 - Description: 1-Way F Coax Type(BU)

- Connector Part Information**
- Harness Type: Inside Rearview Mirror Wiring Harness - Jumper COAX
 - OEM Connector: 33355540
 - Service Connector: Service by Cable Assembly — See Part Catalog
 - Description: 1-Way M Coax Type, Sealed(BU)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

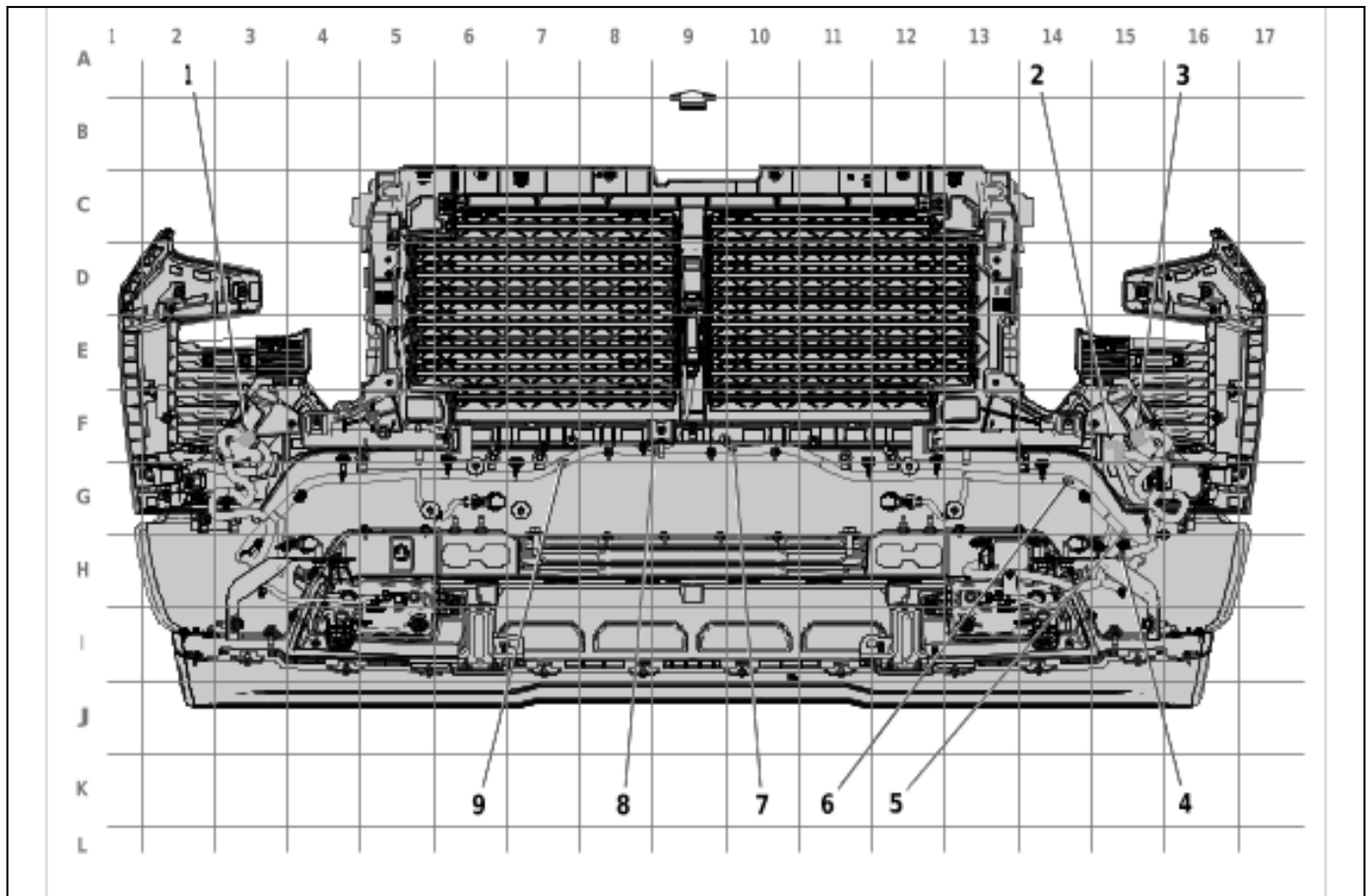
X985 Rearview Driver Information Camera Rear Closure Coaxial Cable to Inside Rearview Mirror Wiring Harness - Jumper (DRZ)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
—	—	Coax Cable	—	I	—	Rear Vision Camera Coaxial Video Signal	—	—	Coax Cable	—	I	—

Electrical Component Locator and Harness Routing Views

Schematic and Routing Diagrams

Front of Vehicle - Front Object Alarm Sensor Wiring Harness (- GRZ - VHU)

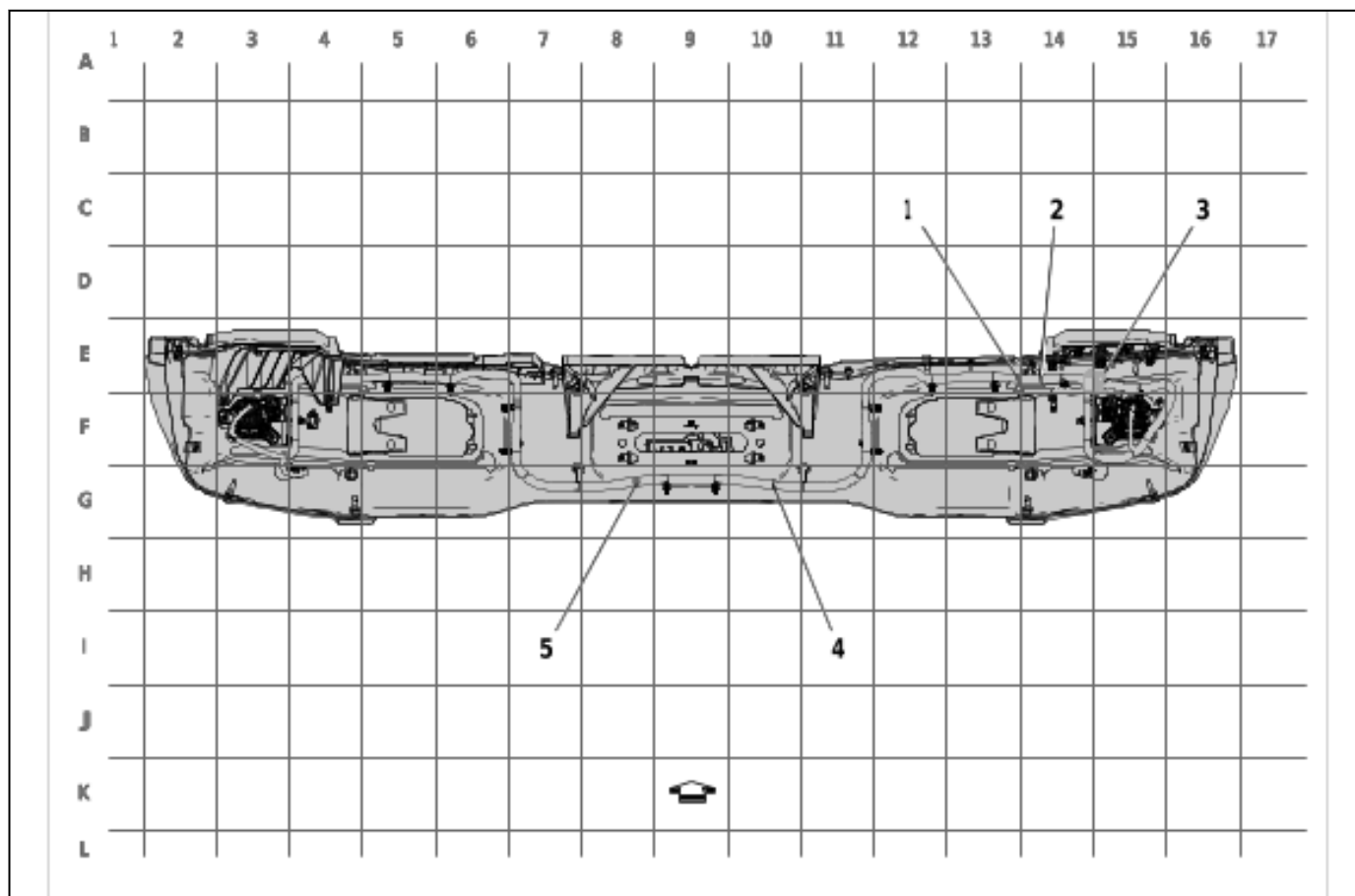


6141577

Items

- (1) X162 Front Object Alarm Sensor Wiring Harness to Front Object Alarm Sensor Wiring Harness - Left Jumper (UKL)
X162 Front Object Alarm Sensor Wiring Harness to Front Object Alarm Sensor Wiring Harness - Jumper (UKL)
- (2) X150 Front Object Alarm Sensor Wiring Harness to Body Wiring Harness (UKL)
X150 Front Object Alarm Sensor Wiring Harness to Body Wiring Harness
- (3) X165 Front Object Alarm Sensor Wiring Harness to Front Object Alarm Sensor Wiring Harness - Right Jumper (UKL)
X165 Front Object Alarm Sensor Wiring Harness to Front Object Alarm Sensor Wiring Harness - Jumper (UKL)
- (4) J105 Front Object Alarm Sensor Wiring Harness (UKL)
- (5) J104 Front Object Alarm Sensor Wiring Harness (UKL)
- (6) J103 Front Object Alarm Sensor Wiring Harness
- (7) J102 Front Object Alarm Sensor Wiring Harness
- (8) J101 Front Object Alarm Sensor Wiring Harness
- (9) J100 Front Object Alarm Sensor Wiring Harness

Front of Vehicle - Front Object Alarm Sensor Wiring Harness (VHU)

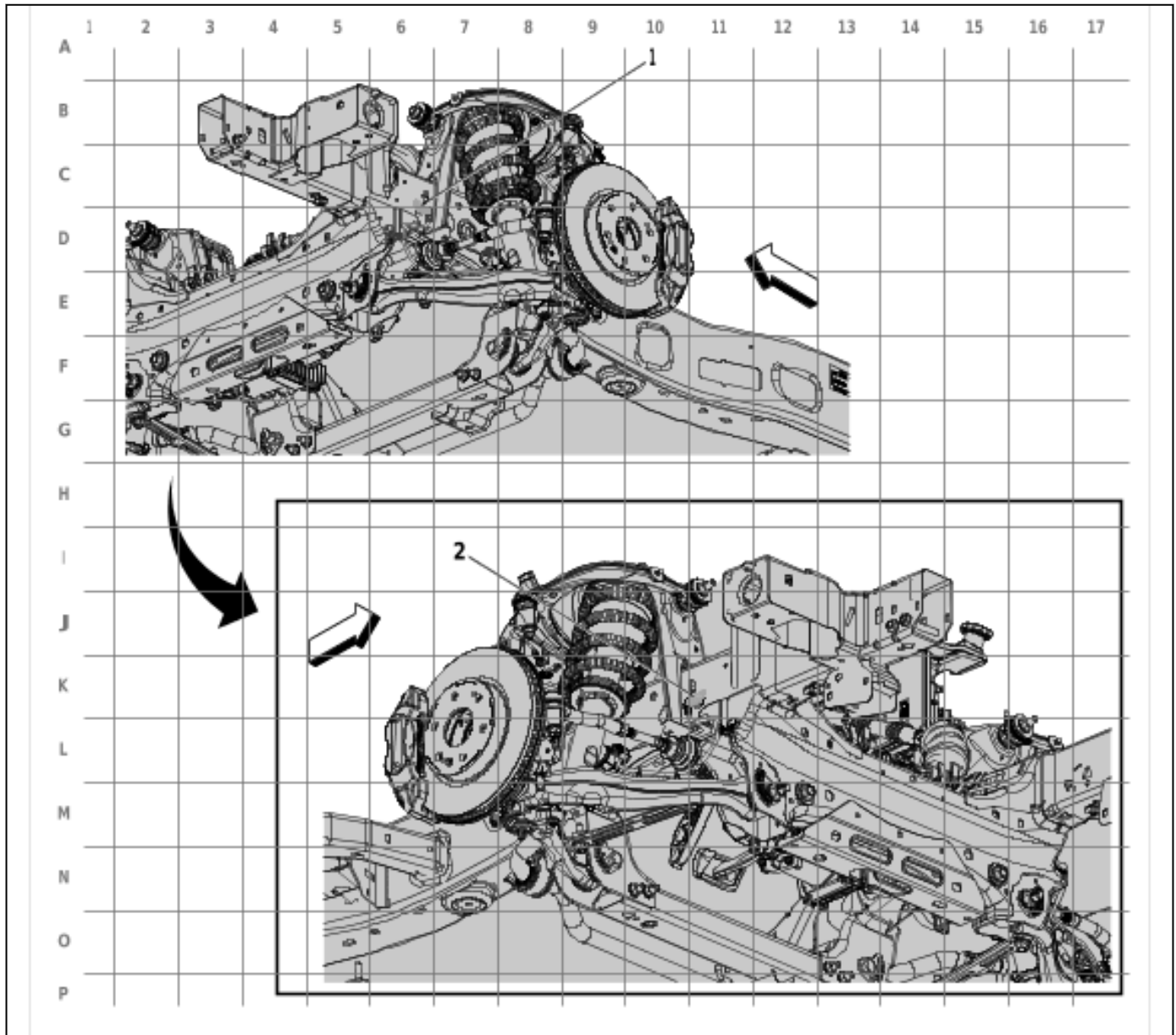


6142586

Items

- (1) J103 Front Object Alarm Sensor Wiring Harness
- (2) J100 Front Object Alarm Sensor Wiring Harness
- (3) X150 Front Object Alarm Sensor Wiring Harness to Body Wiring Harness (UKL)
- X150 Front Object Alarm Sensor Wiring Harness to Body Wiring Harness
- (4) J101 Front Object Alarm Sensor Wiring Harness
- (5) J102 Front Object Alarm Sensor Wiring Harness

Vehicle Underbody - Electronic Suspension Strut Wiring Harness Extension Harness

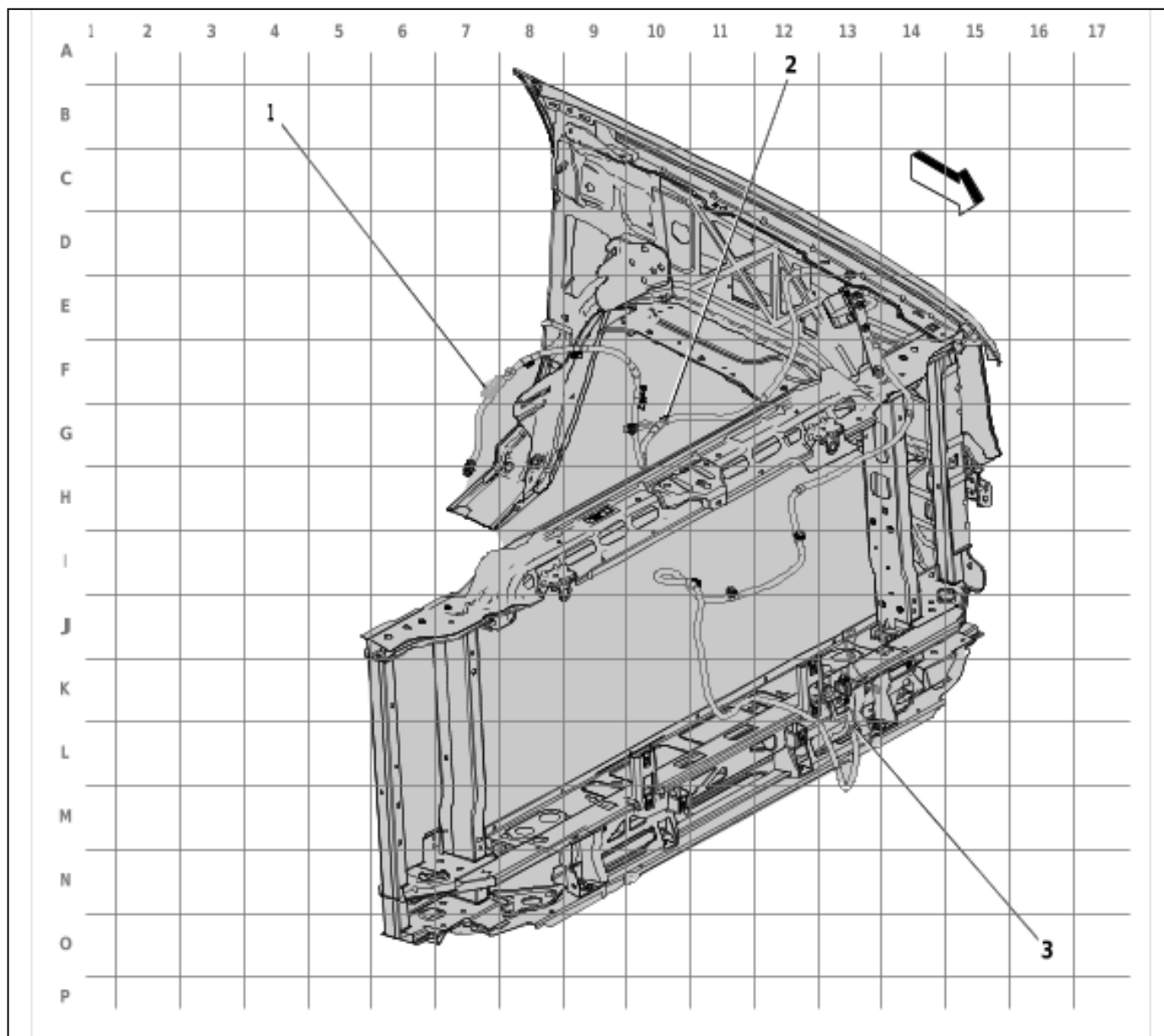


5970770

Items

- (1) X416A Chassis Wiring Harness to Electronic Suspension Strut Wiring Harness Extension Harness (Z45)
- X416A Chassis Wiring Harness to Electronic Suspension Strut Wiring Harness Extension Harness (Z45)
- (2) X416B Chassis Wiring Harness to Electronic Suspension Strut Wiring Harness Extension Harness (Z45)
- X416B Chassis Wiring Harness to Electronic Suspension Strut Wiring Harness Extension Harness (Z45)

Engine Compartment - Accessory Wiring Harness (VYU)



5965543

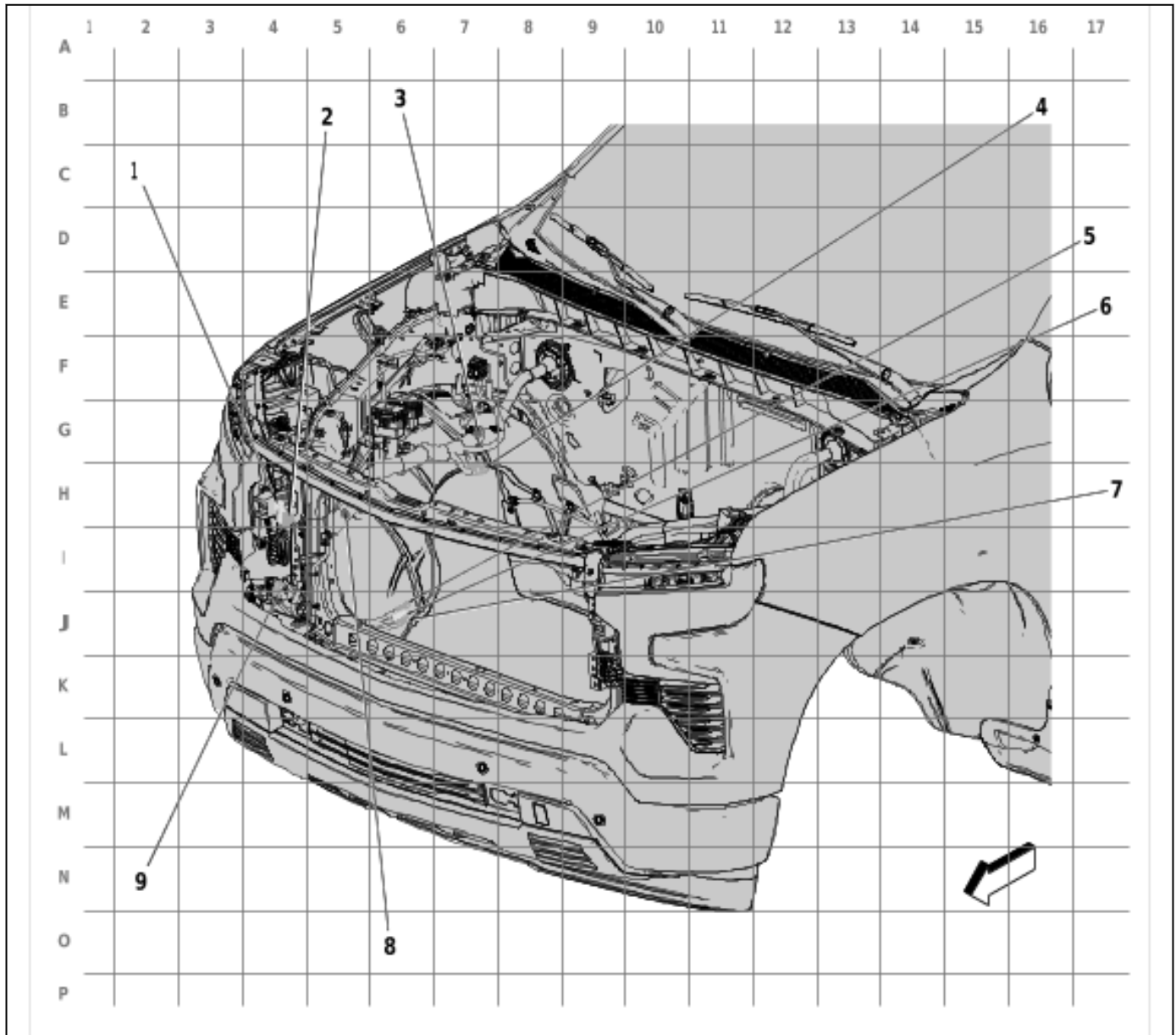
Items

(1) X977 Engine Wiring Harness Jumper to Accessory Wiring Harness (VYU)
X977 Engine Wiring Harness Jumper to Accessory Wiring Harness (VYU)

(2) J141 Accessory Wiring Harness (VYU)

(3) J140 Accessory Wiring Harness (VYU)

Engine Compartment - Body Wiring Harness - Right



5965516

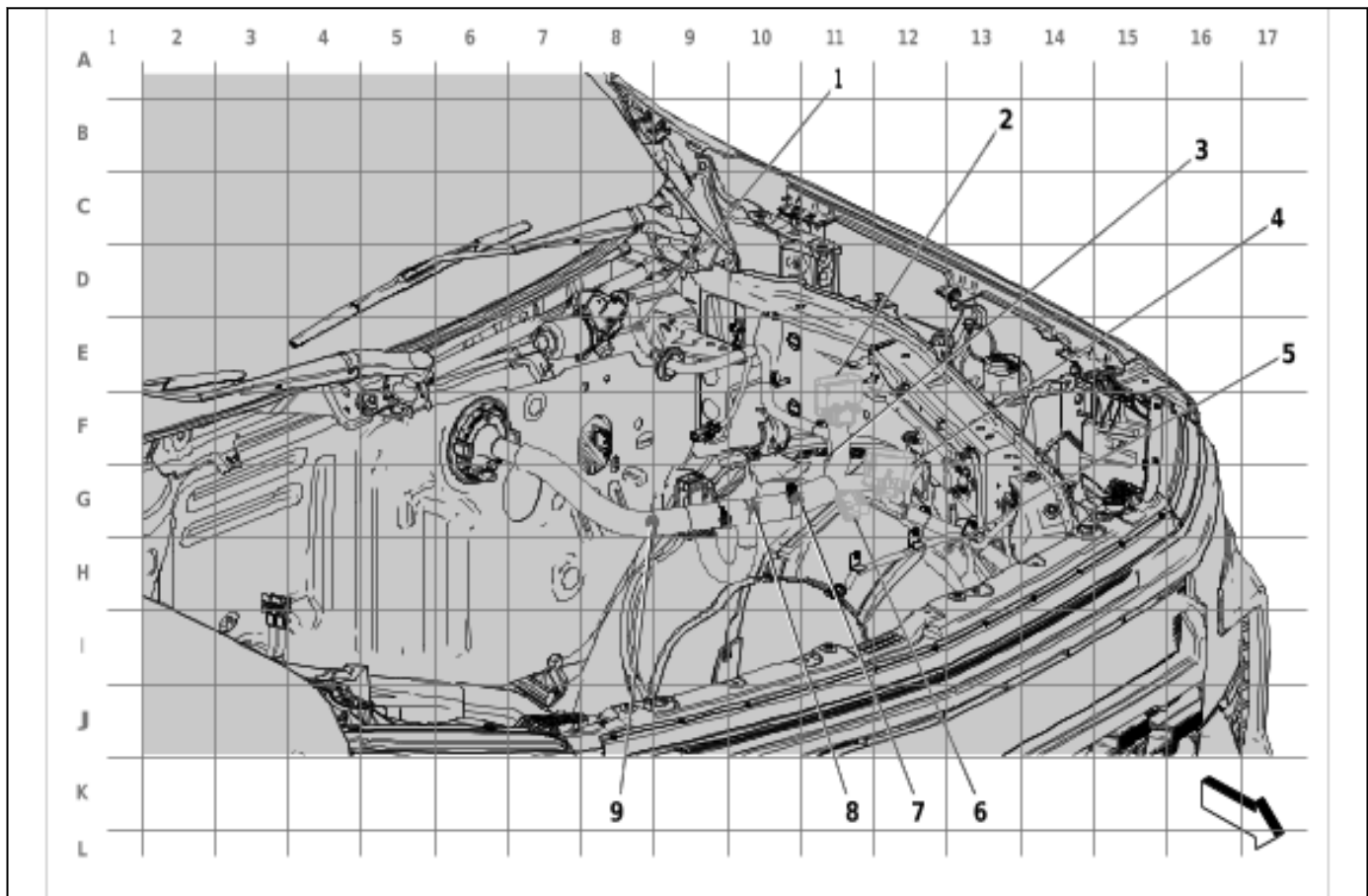
Items

- (1) X124 Front View Camera Switch Wiring Harness to Body Wiring Harness (GRZ)
X124 Front View Camera Switch Wiring Harness to Body Wiring Harness
- (2) X122 Front View Camera Switch Wiring Harness to Body Wiring Harness (UV2)
X122 Front View Camera Switch Wiring Harness to Body Wiring Harness
- (3) J132 Body Wiring Harness
- (4) X424 Body Wiring Harness to Chassis Wiring Harness (FHS)
X424 Body Wiring Harness to Chassis Wiring Harness
- (5) X402B Body Wiring Harness to Chassis Wiring Harness (UV2)
X402B Body Wiring Harness to Chassis Wiring Harness

Items

- (6) X402C Body Wiring Harness to Chassis Wiring Harness (UV2)
X402C Body Wiring Harness to Chassis Wiring Harness
- (7) X402A Body Wiring Harness to Chassis Wiring Harness (UV2)
X402A Body Wiring Harness to Chassis Wiring Harness
- (8) J131 Body Wiring Harness
- (9) X150 Front Object Alarm Sensor Wiring Harness to Body Wiring Harness (UKL)
X150 Front Object Alarm Sensor Wiring Harness to Body Wiring Harness

Engine Compartment - Body Wiring Harness - Left



5965517

Items

- (1) J127 Body Wiring Harness
- (2) X410 Chassis Wiring Harness to Body Wiring Harness
X410 Chassis Wiring Harness to Body Wiring Harness
- (3) J126 Body Wiring Harness
- (4) X125 Engine Wiring Harness to Body Wiring Harness
X125 Engine Wiring Harness to Body Wiring Harness
- (5) J125 Body Wiring Harness

Items

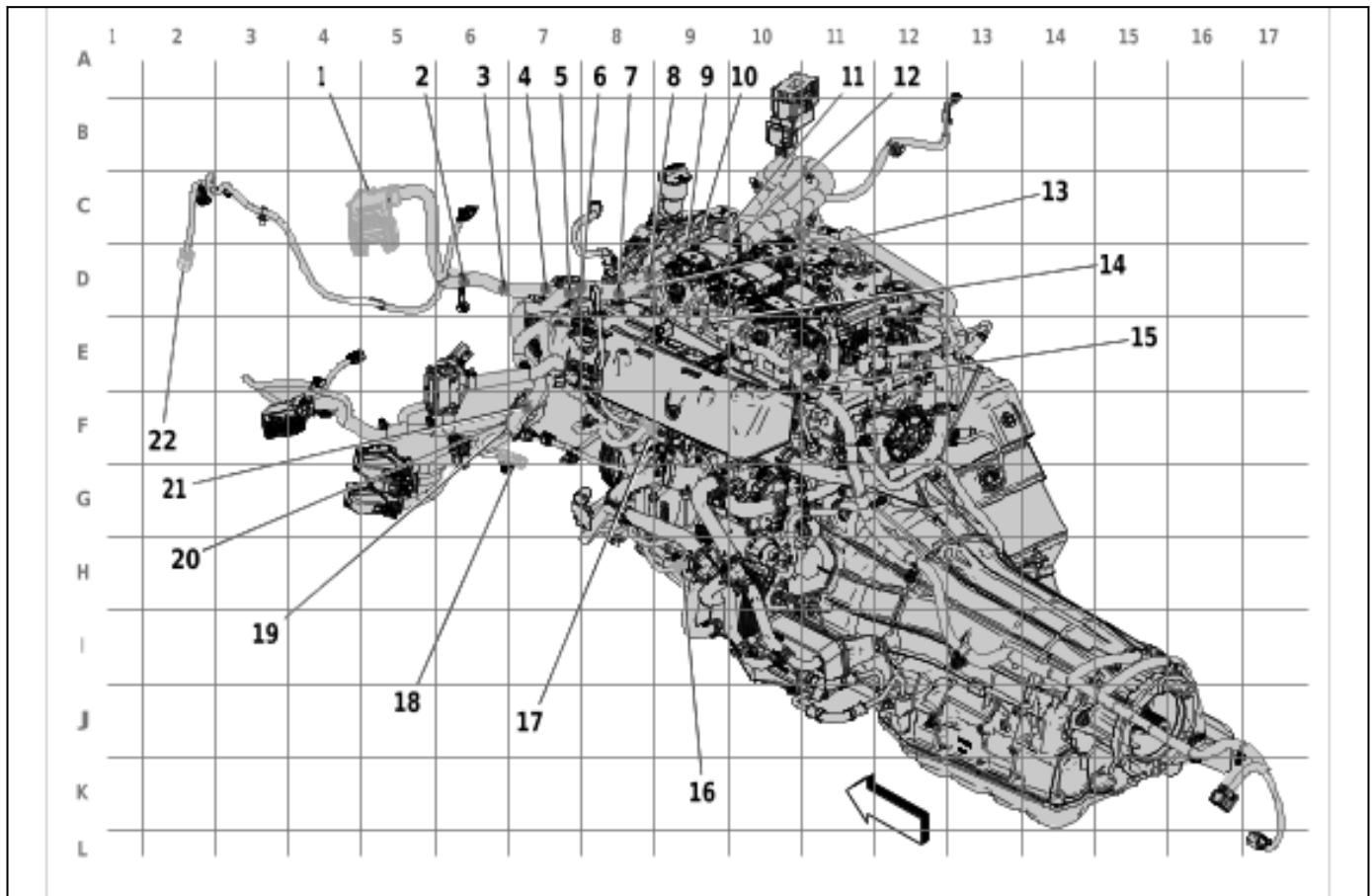
(6) X400 Body Wiring Harness to Chassis Wiring Harness
 X400 Body Wiring Harness to Chassis Wiring Harness -
 Double Cab / Crew Cab
 X400 Body Wiring Harness to Chassis Wiring Harness -
 Regular Cab

(7) J128 Body Wiring Harness

(8) J129 Body Wiring Harness

(9) J130 Body Wiring Harness

Engine Compartment - Engine Wiring Harness - Left Rear (L3B)



5970771

Items

(1) X125 Engine Wiring Harness to Body Wiring Harness
 X125 Engine Wiring Harness to Body Wiring Harness

(2) J150 Engine Wiring Harness

(3) J157 Engine Wiring Harness

(4) J151 Engine Wiring Harness

(5) J168 Engine Wiring Harness (L3B)

(6) J169 Engine Wiring Harness (L3B)

(7) J170 Engine Wiring Harness (L3B)

(8) J164 Engine Wiring Harness

(9) J172 Engine Wiring Harness (L3B)

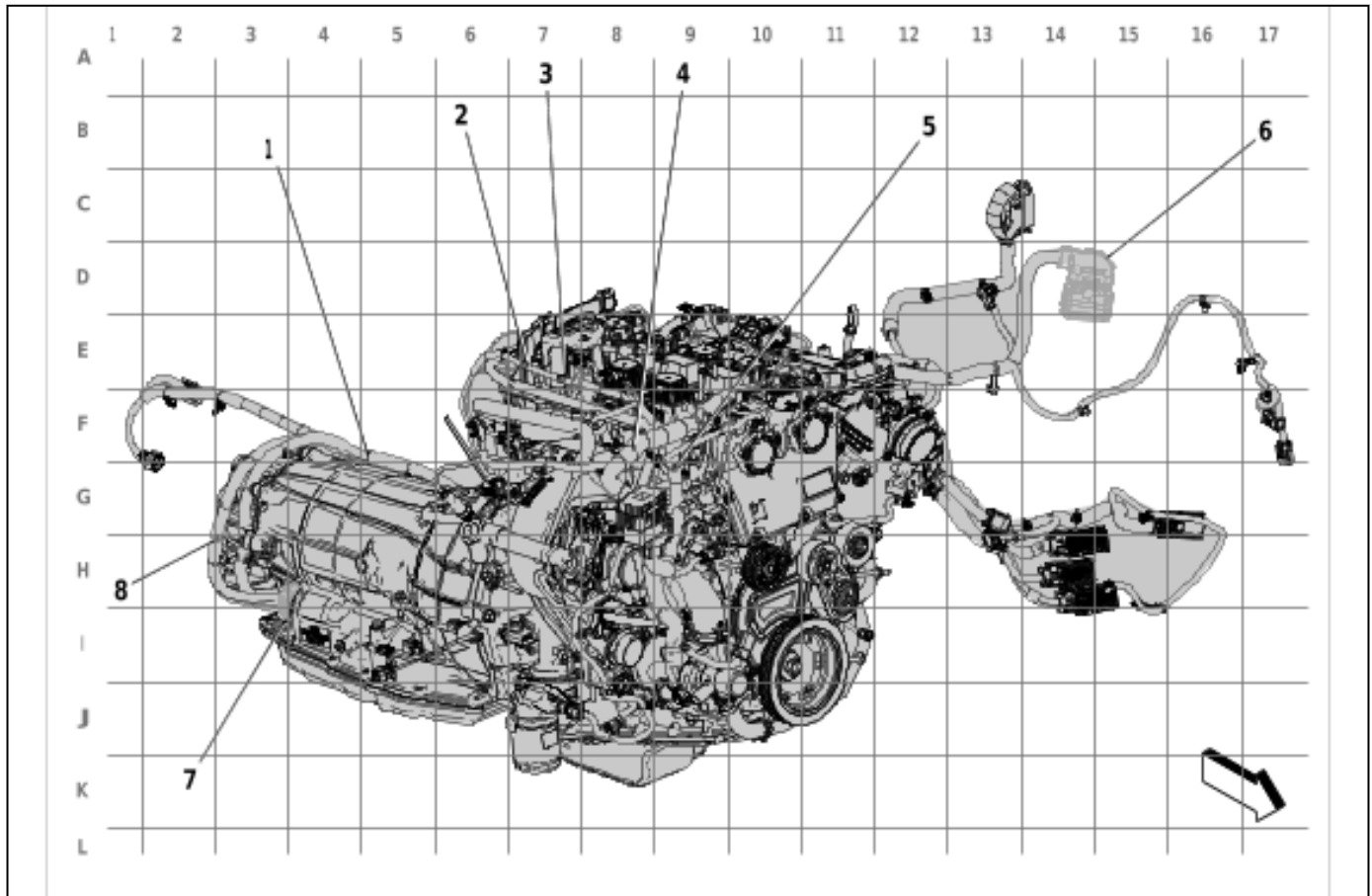
(10) J173 Engine Wiring Harness (L3B)

(11) J174 Engine Wiring Harness (L3B)

Items

- (12) J175 Engine Wiring Harness (L3B)
- (13) J156 Engine Wiring Harness (L3B/L84/L87)
- (14) J158 Engine Wiring Harness (L3B/L84/L87)
- (15) J171 Engine Wiring Harness (L3B)
- (16) X129 Camshaft Position Sensor Wire to Oil Pump Flow Control Solenoid Valve Wire (L3B/L87/LZ0)
- X129 Engine Wiring Harness to Oil Pump Flow Control Solenoid Valve Wiring Harness (L3B)
- X129 Engine Wiring Harness to Oil Pump Flow Control Solenoid Valve Wiring Harness (L87)
- X129 Engine Wiring Harness to Oil Pump Flow Control Solenoid Valve Wiring Harness (LZ0)
- (17) X160 Engine Wiring Harness to Fuel Injector Wiring Harness
- X160 Engine Wiring Harness to Fuel Injector Wiring Harness (L3B)
- X160 Engine Wiring Harness to Fuel Injector Wiring Harness (LZ0)
- X160 Engine Wiring Harness to Fuel Injector Wiring Harness -Bank 1 (L84 / L87)
- (18) X415B
- (19) J153 Engine Wiring Harness
- (20) J167 Engine Wiring Harness (L3B)
- (21) J155 Engine Wiring Harness (L3B/L84/L87)
- (22) X618A Engine Wiring Harness to Active Grille Air Shutter Wiring Harness (VTI/WMI)
- X618A Engine Wiring Harness to Active Grille Air Shutter Actuator Wiring Harness (VTI / WMI)

Engine Compartment - Engine Wiring Harness - Right Front (L3B)

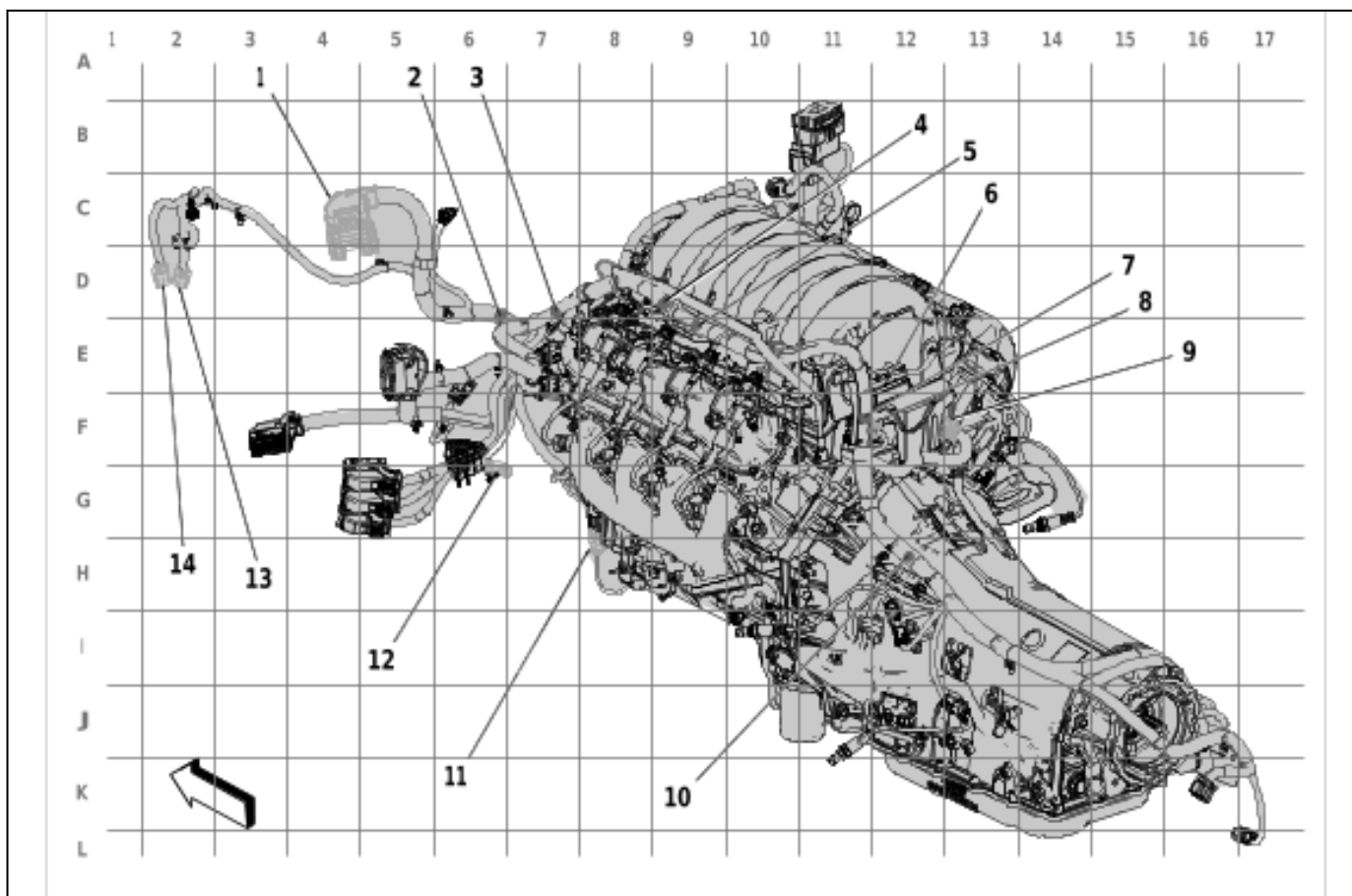


5970772

Items

- (1) J154 Engine Wiring Harness
- (2) J177 Engine Wiring Harness (L3B)
- (3) J163 Engine Wiring Harness (L3B/L84/L87)
- (4) J152 Engine Wiring Harness
- (5) J179 Engine Wiring Harness (L3B)
- (6) X125 Engine Wiring Harness to Body Wiring Harness
X125 Engine Wiring Harness to Body Wiring Harness
- (7) X175 Engine Wiring Harness to Automatic Transmission
Wiring Harness - Case (MQC / MFC / MQE)
X175 Engine Wiring Harness to Automatic Transmission
Wiring Harness - Case (MFC)
X175 Engine Wiring Harness to Automatic Transmission
Wiring Harness - Case (MQC)
- (8) J165 Engine Wiring Harness (L3B)

Engine Compartment - Engine Wiring Harness - Left Rear (L84 / L87)



5970773

Items

(1) X125 Engine Wiring Harness to Body Wiring Harness
X125 Engine Wiring Harness to Body Wiring Harness

(2) J154 Engine Wiring Harness

(3) J153 Engine Wiring Harness

(4) J158 Engine Wiring Harness (L3B/L84/L87)

(5) J159 Engine Wiring Harness (L84/L87)

(6) J160 Engine Wiring Harness (L84/L87)

(7) J163 Engine Wiring Harness (L3B/L84/L87)

(8) X160 Engine Wiring Harness to Fuel Injector Wiring Harness

X160 Engine Wiring Harness to Fuel Injector Wiring Harness (L3B)

X160 Engine Wiring Harness to Fuel Injector Wiring Harness (LZ0)

X160 Engine Wiring Harness to Fuel Injector Wiring Harness -Bank 1 (L84 / L87)

(9) X161 Engine Wiring Harness to Fuel Injector Wiring Harness - Bank 2 (L84 / L87)

X161 Engine Wiring Harness to Fuel Injector Wiring Harness - Bank 2 (L84 / L87)

(10) J164 Engine Wiring Harness

(11) X128 Engine Wiring Harness to Camshaft Position Sensor Wire (L84/L87)

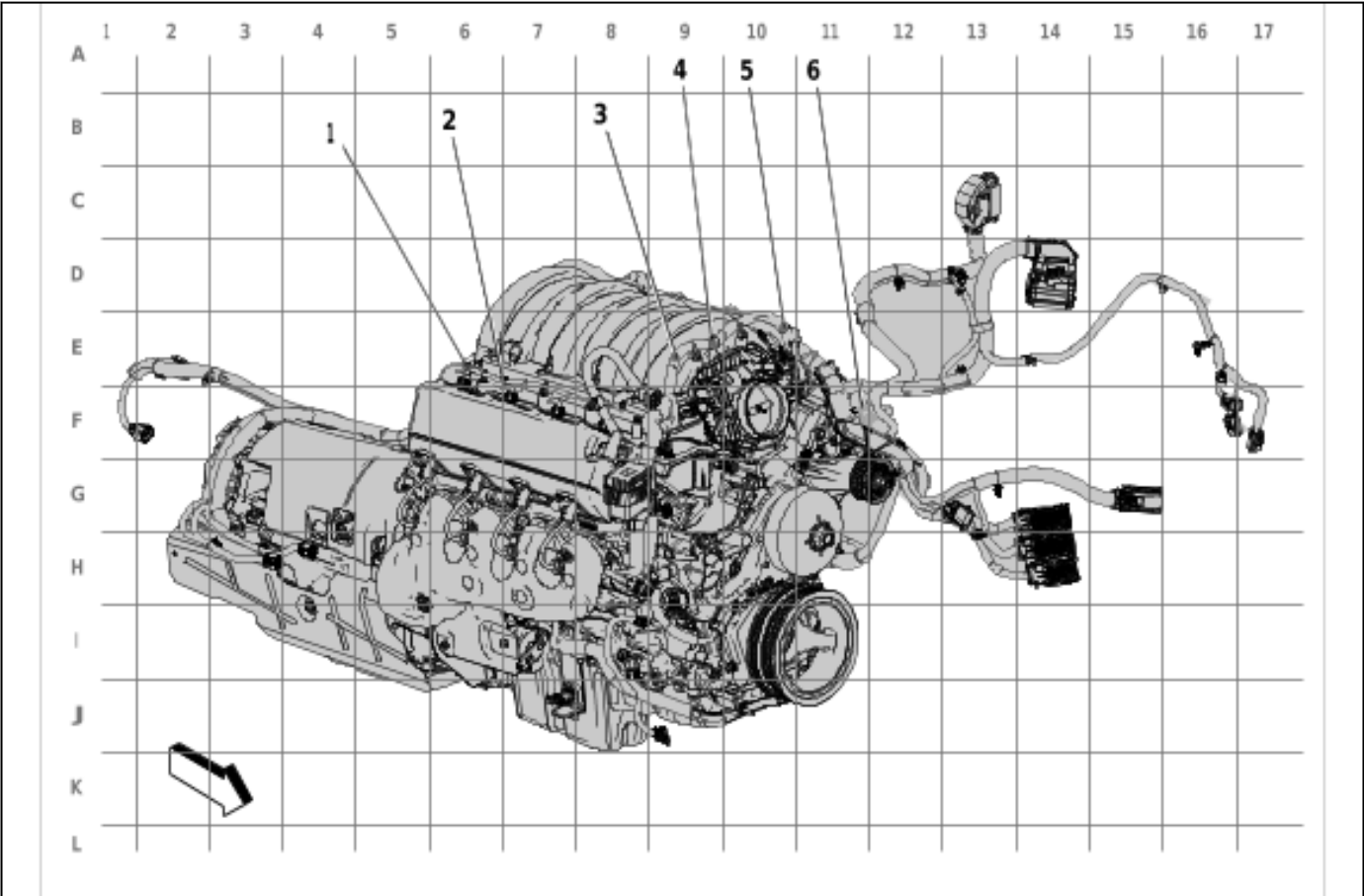
X128 Engine Wiring Harness to Camshaft Position Sensor Wire

- Items
- (12) X415B

(13) X618A Engine Wiring Harness to Active Grille Air Shutter Wiring Harness (VTI/WMI)
X618A Engine Wiring Harness to Active Grille Air Shutter Actuator Wiring Harness (VTI / WMI)

(14) X618L Active Grille Air Shutter Jumper Wiring Harness to Active Grille Air Shutter Wiring Harness (WMI)
X618L Active Grille Air Shutter Wiring Harness to Active Grille Air Shutter Jumper Wiring Harness (WMI)

Engine Compartment - Engine Wiring Harness - Right Front (L84 / L87)



5970774

- Items
- (1) J161 Engine Wiring Harness (L84/L87)

(2) J162 Engine Wiring Harness (L84/L87)

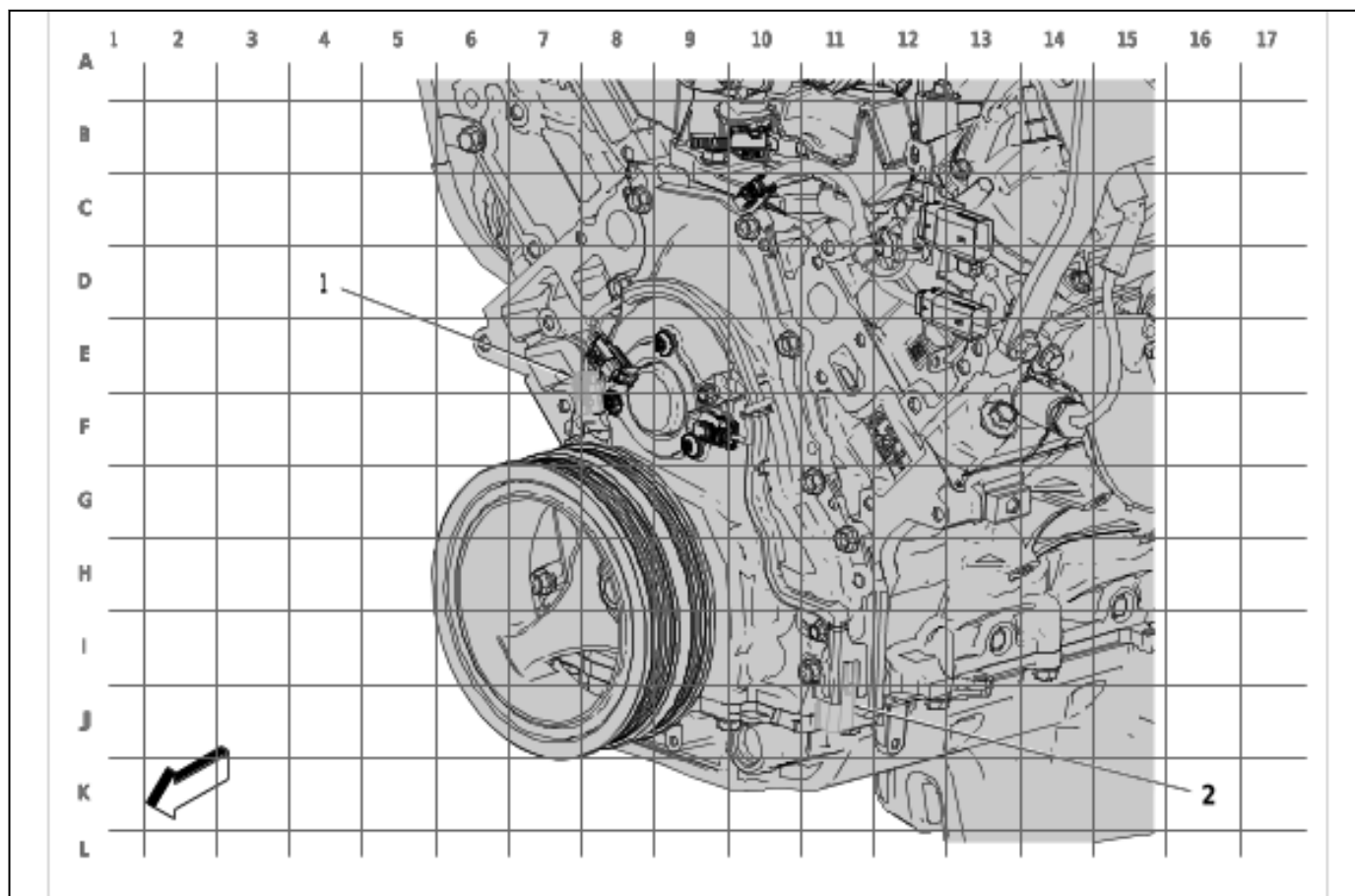
(3) J157 Engine Wiring Harness

(4) J156 Engine Wiring Harness (L3B/L84/L87)

(5) J155 Engine Wiring Harness (L3B/L84/L87)

(6) X962 Engine Wiring Harness to Valve Rocker Arm Oil Control Valve Extension Harness (L84/L87)
X962 Engine Wiring Harness to Valve Rocker Arm Oil Control Valve Extension Harness

Engine Compartment - Camshaft Position Sensor Wire (L84 / L87)



6050071

Items

(1) X129 Camshaft Position Sensor Wire to Oil Pump Flow Control Solenoid Valve Wire (L3B/L87/LZ0)

X129 Engine Wiring Harness to Oil Pump Flow Control

Solenoid Valve Wiring Harness (L3B)

X129 Engine Wiring Harness to Oil Pump Flow Control

Solenoid Valve Wiring Harness (L87)

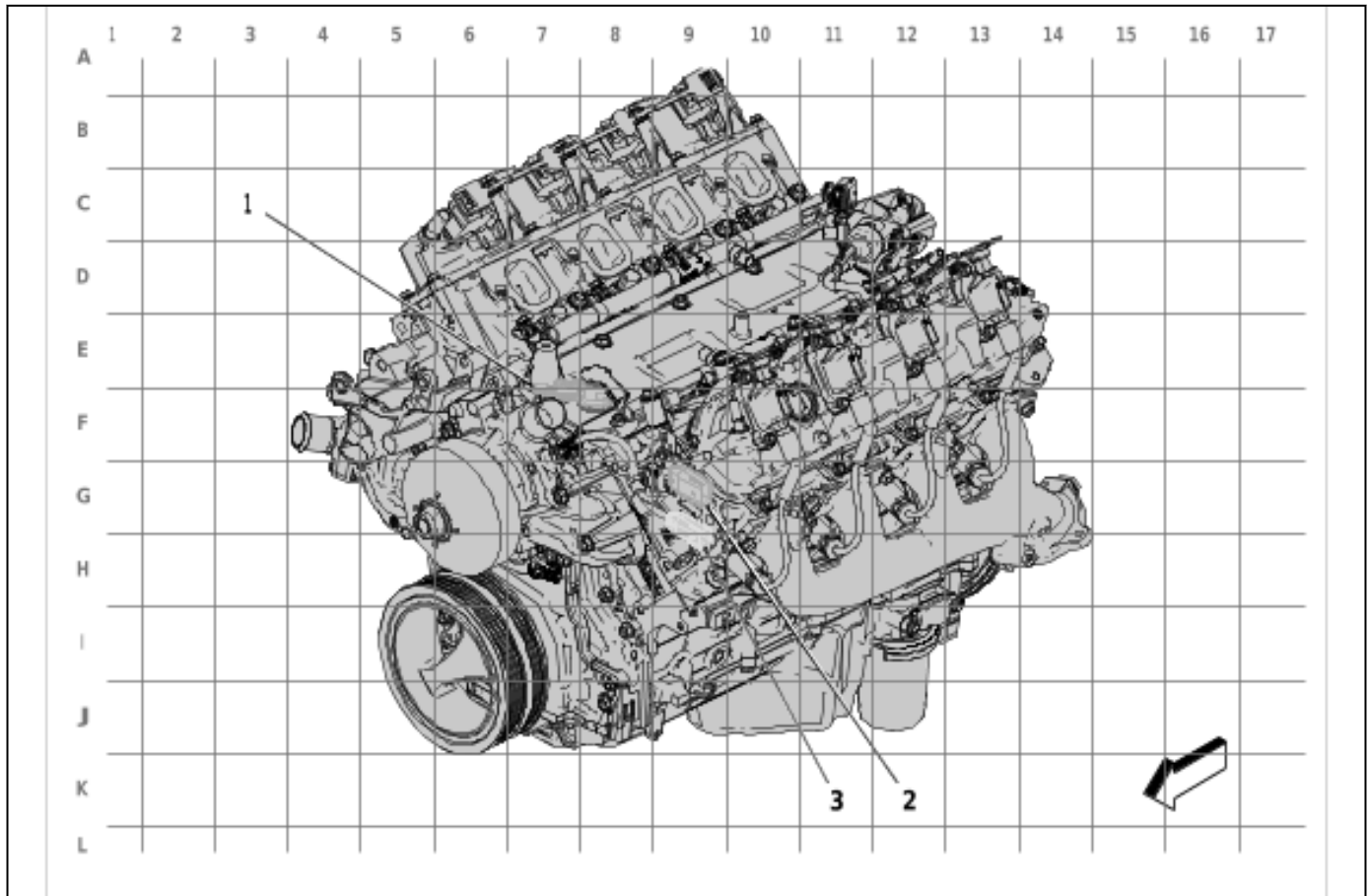
X129 Engine Wiring Harness to Oil Pump Flow Control

Solenoid Valve Wiring Harness (LZ0)

(2) X128 Engine Wiring Harness to Camshaft Position Sensor Wire (L84/L87)

X128 Engine Wiring Harness to Camshaft Position Sensor Wire

Engine Compartment - Valve Rocker Arm Oil Valve Extension Harness (L84 / L87)



6050073

Items

(1) X963 Valve Rocker Arm Oil Control Valve Extension Harness to Valve Rocker Arm Oil Control Valve Harness (L84/L87)

X963 Valve Rocker Arm Oil Control Valve Extension Harness to Valve Rocker Arm Oil Control Valve Harness (L84 / L87)

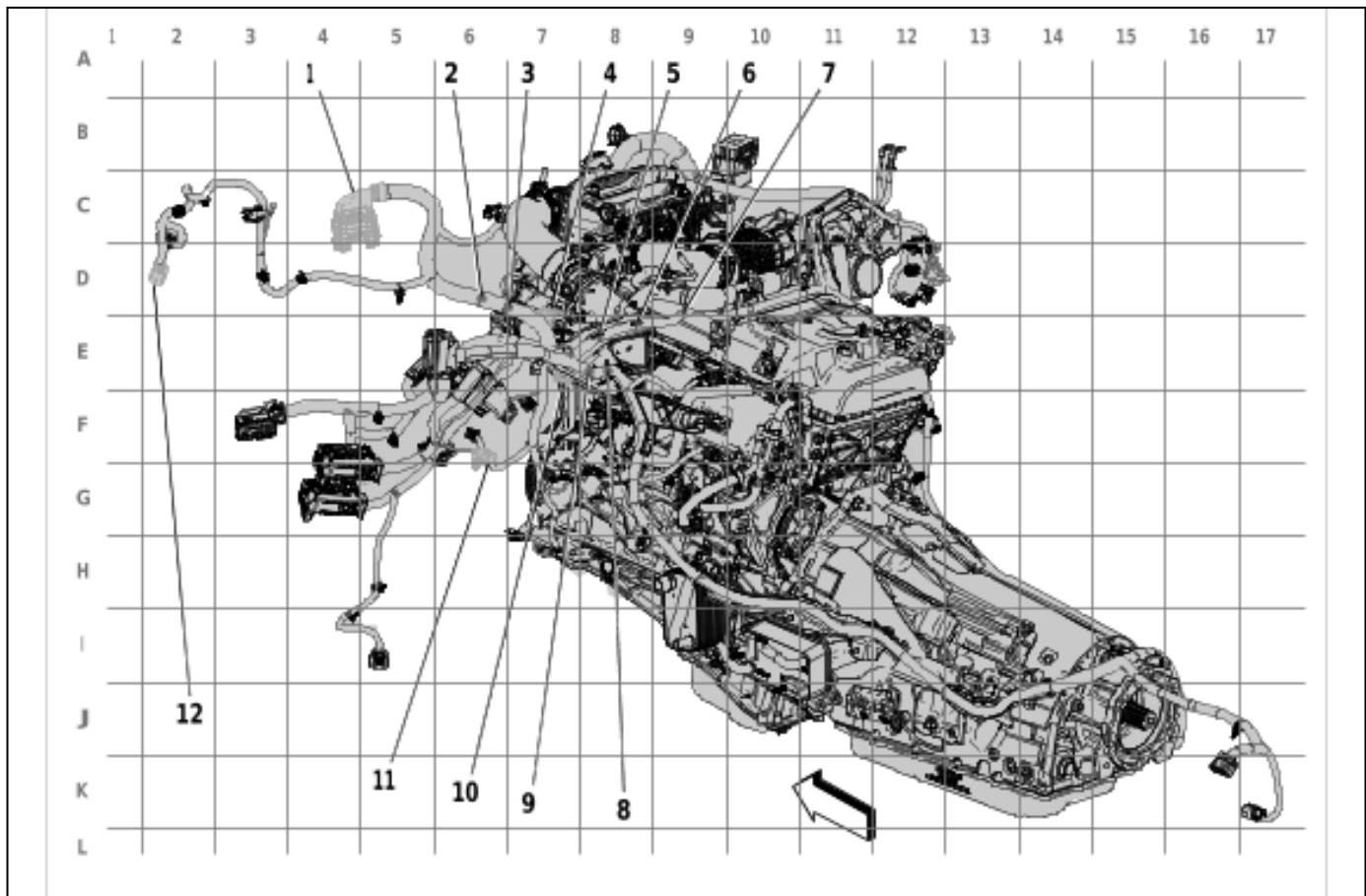
(2) X962 Engine Wiring Harness to Valve Rocker Arm Oil Control Valve Extension Harness (L84/L87)

X962 Engine Wiring Harness to Valve Rocker Arm Oil Control Valve Extension Harness

(3) X961 Engine Wiring Harness to Valve Rocker Arm Oil Control Valve Extension Harness (L84/L87)

X961 Engine Wiring Harness to Valve Rocker Arm Oil Control Valve Extension Harness

Engine Compartment - Engine Wiring Harness - Left Rear (LZ0)

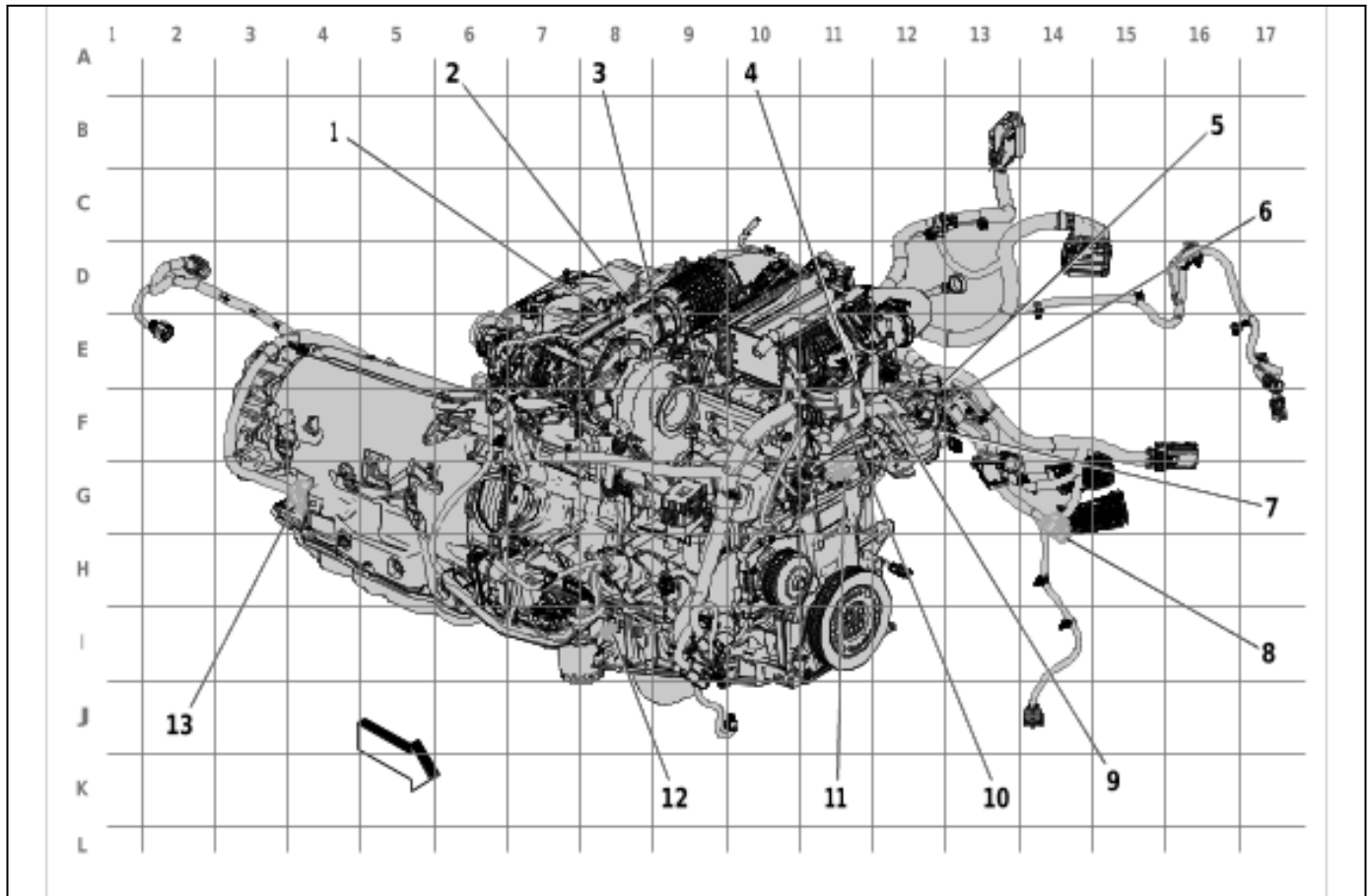


6141575

Items

- (1) X125 Engine Wiring Harness to Body Wiring Harness
X125 Engine Wiring Harness to Body Wiring Harness
- (2) J153 Engine Wiring Harness
- (3) J181 Engine Wiring Harness (LZ0)
- (4) X163 Engine Wiring Harness to Diesel Glow Plug Wiring Harness (LZ0)
X163 Engine Wiring Harness to Diesel Glow Plug Wiring Harness
- (5) J188 Engine Wiring Harness (LZ0)
- (6) J191 Engine Wiring Harness (LZ0)
- (7) J157 Engine Wiring Harness
- (8) J151 Engine Wiring Harness
- (9) J180 Engine Wiring Harness (LZ0)
- (10) X944 Engine Wiring Harness to Engine Coolant Temperature Sensor Harness (LZ0)
X944 Engine Wiring Harness to Engine Coolant Temperature Sensor Harness (LZ0)
- (11) X415A
- (12) X618A Engine Wiring Harness to Active Grille Air Shutter Wiring Harness (VTI/WMI)
X618A Engine Wiring Harness to Active Grille Air Shutter Actuator Wiring Harness (VTI / WMI)

Engine Compartment - Engine Wiring Harness - Right Front (LZ0)



6141574

Items

- (1) J189 Engine Wiring Harness (LZ0)
- (2) J184 Engine Wiring Harness (LZ0)
- (3) J190 Engine Wiring Harness (LZ0)
- (4) J182 Engine Wiring Harness (LZ0)
- (5) J154 Engine Wiring Harness
- (6) J150 Engine Wiring Harness
- (7) J186 Engine Wiring Harness (LZ0)
- (8) X401 Engine Wiring Harness to Chassis Wiring Harness (LZ0)
- X401 Engine Wiring Harness to Chassis Wiring Harness
- (9) J152 Engine Wiring Harness
- (10) J164 Engine Wiring Harness
- (11) X160 Engine Wiring Harness to Fuel Injector Wiring Harness
- X160 Engine Wiring Harness to Fuel Injector Wiring Harness (L3B)
- X160 Engine Wiring Harness to Fuel Injector Wiring Harness (LZ0)
- X160 Engine Wiring Harness to Fuel Injector Wiring Harness -Bank 1 (L84 / L87)

- Items
- (12) X129 Camshaft Position Sensor Wire to Oil Pump Flow Control Solenoid Valve Wire (L3B/L87/LZ0)

X129 Engine Wiring Harness to Oil Pump Flow Control Solenoid Valve Wiring Harness (L3B)

X129 Engine Wiring Harness to Oil Pump Flow Control Solenoid Valve Wiring Harness (L87)

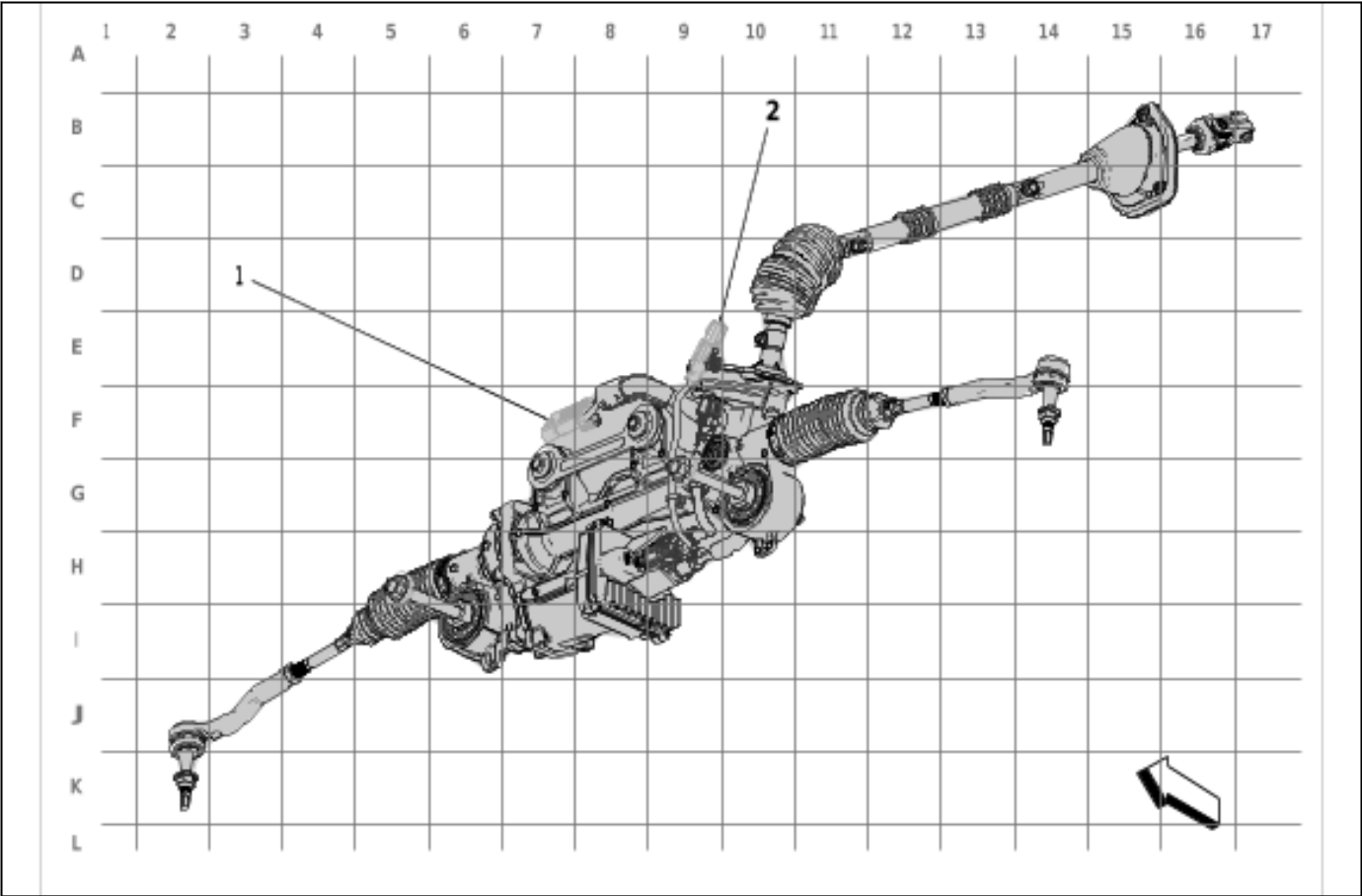
X129 Engine Wiring Harness to Oil Pump Flow Control Solenoid Valve Wiring Harness (LZ0)

(13) X175 Engine Wiring Harness to Automatic Transmission Wiring Harness - Case (MQC / MFC / MQE)

X175 Engine Wiring Harness to Automatic Transmission Wiring Harness - Case (MFC)

X175 Engine Wiring Harness to Automatic Transmission Wiring Harness - Case (MQC)

Engine Compartment - Power Steering Wiring Harness Extension Harness



5970778

- Items
- (1) X405 Power Steering Wiring Harness to Power Steering Control Module Wiring Harness

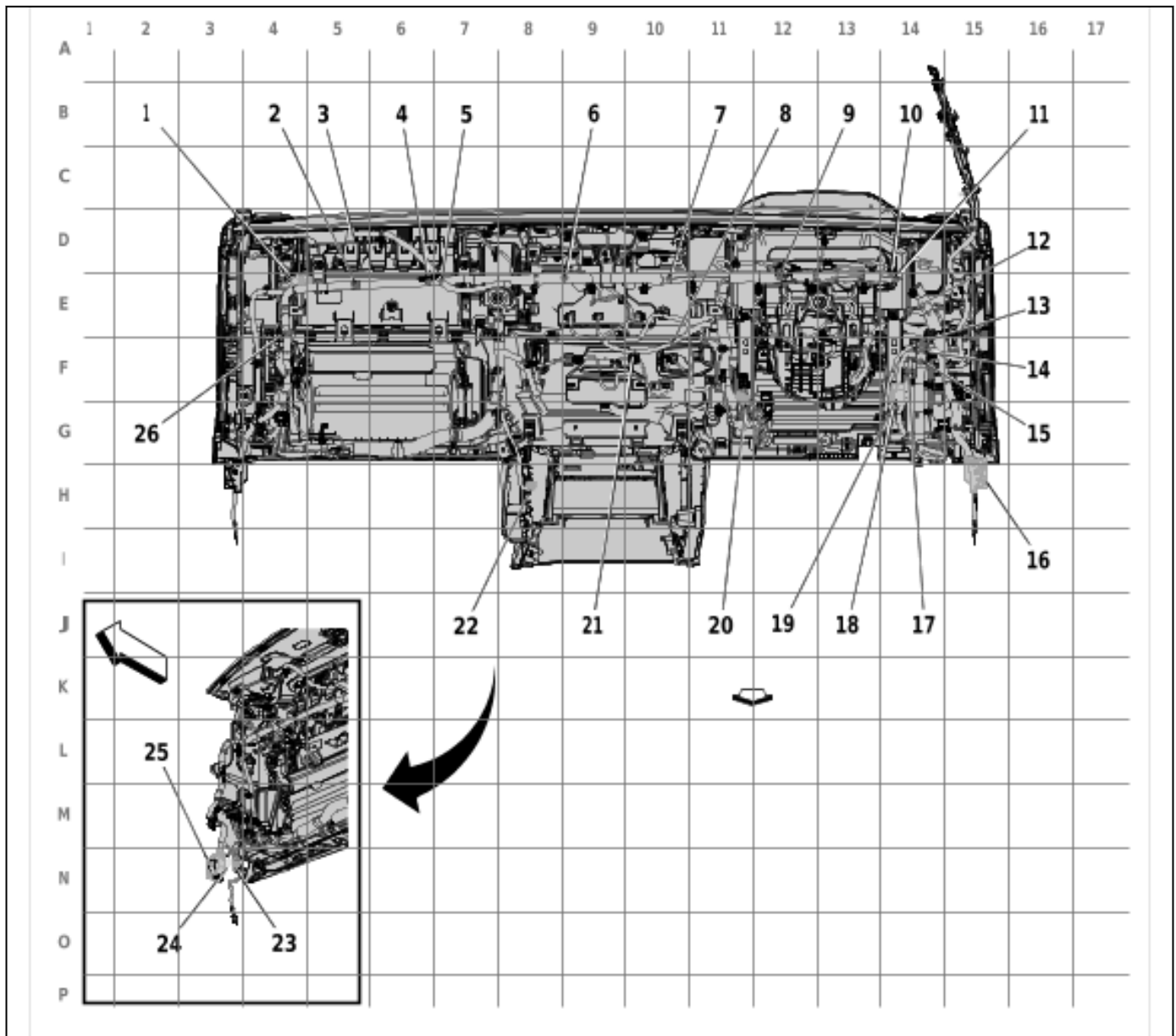
X405 Power Steering Wiring Harness to Power Steering Control Module Wiring Harness

(2) X403 Chassis Wiring Harness to Power Steering Wiring Harness Extension Harness

X403 Chassis Wiring Harness to Power Steering Wiring Harness Extension Harness - Double Cab / Crew Cab

X403 Chassis Wiring Harness to Power Steering Wiring Harness Extension Harness - Regular Cab

Instrument Panel Wiring Harness (IOW)



5965518

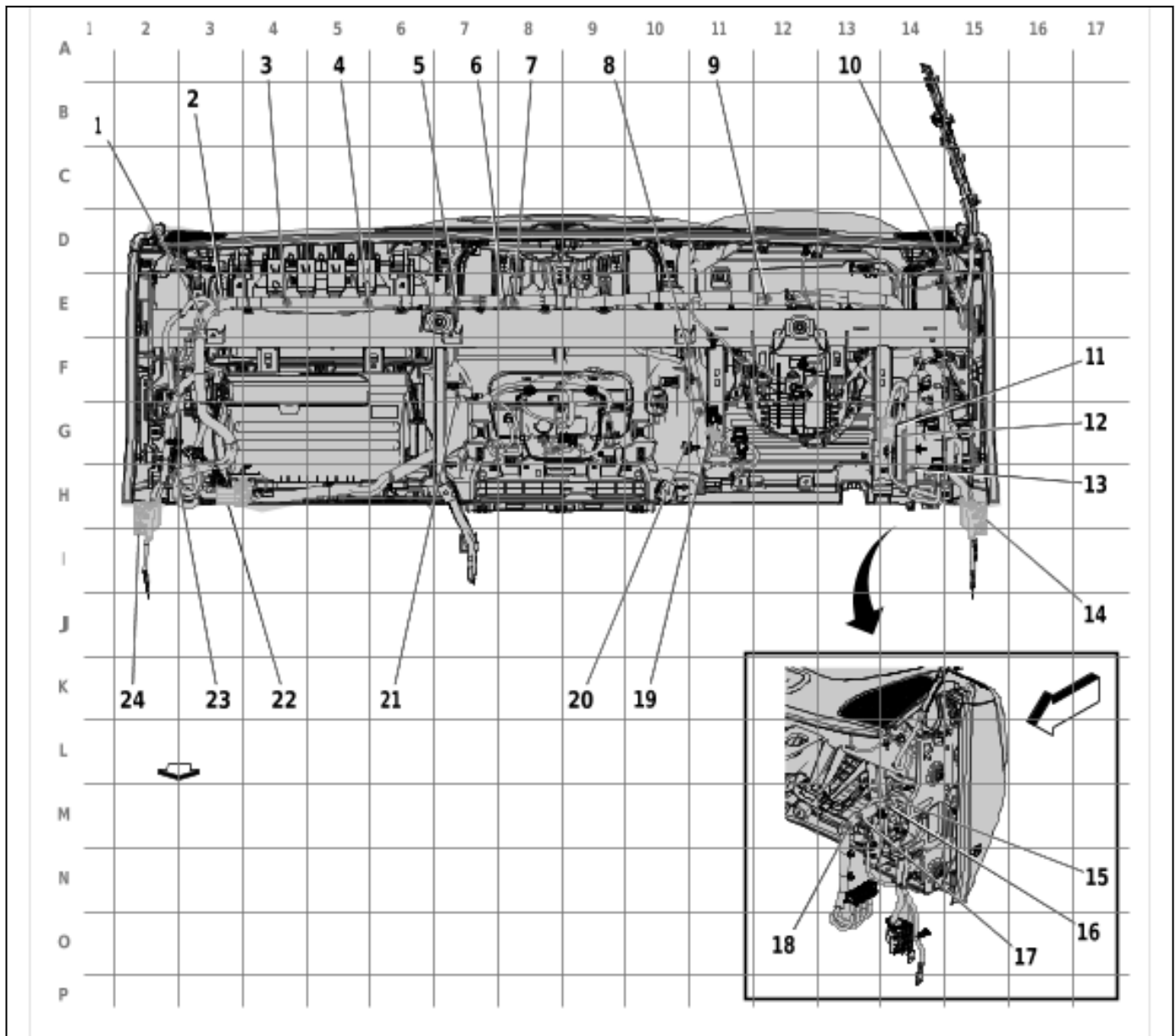
Items

- (1) X237 Instrument Panel Wiring Harness to Instrument Panel Airbag Wiring Harness
X237 Instrument Panel Wiring Harness to Instrument Panel Airbag Wiring Harness
- (2) J241 Instrument Panel Wiring Harness
- (3) X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness
X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOW)
X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOR)
- (4) J240 Instrument Panel Wiring Harness
- (5) J239 Instrument Panel Wiring Harness
- (6) J238 Instrument Panel Wiring Harness
- (7) J235 Instrument Panel Wiring Harness

Items

- (8) J236 Instrument Panel Wiring Harness
- (9) J233 Instrument Panel Wiring Harness (UV6)
- (10) J231 Instrument Panel Wiring Harness (9L7+(G93/G94))
- (11) J230 Instrument Panel Wiring Harness
- (12) J229 Instrument Panel Wiring Harness
- (13) J225 Instrument Panel Wiring Harness
- (14) J226 Instrument Panel Wiring Harness
- (15) J227 Instrument Panel Wiring Harness
- (16) X210 Instrument Panel Wiring Harness to Body Wiring Harness
X210 Instrument Panel Wiring Harness to Body Wiring Harness
- (17) J228 Instrument Panel Wiring Harness (JHD)
- (18) X213A
- (19) X213B
- (20) X250 Instrument Panel Wiring Harness to Heater Wiring Harness
X250 Instrument Panel Wiring Harness to Heater Wiring Harness
- (21) J237 Instrument Panel Wiring Harness
- (22) X226 Front Floor Console Wiring Harness to Instrument Panel Wiring Harness (D07)
X226 Front Floor Console Wiring Harness to Instrument Panel Wiring Harness
- (23) X218 Instrument Panel Wiring Harness to Body Wiring Harness
X218 Instrument Panel Wiring Harness to Body Wiring Harness
- (24) X217 Body Wiring Harness to Instrument Panel Wiring Harness
X217 Body Wiring Harness to Instrument Panel Wiring Harness
- (25) X211 Instrument Panel Wiring Harness to Body Wiring Harness
X211 Instrument Panel Wiring Harness to Body Wiring Harness
- (26) J242 Instrument Panel Wiring Harness

Instrument Panel Wiring Harness (IOR)



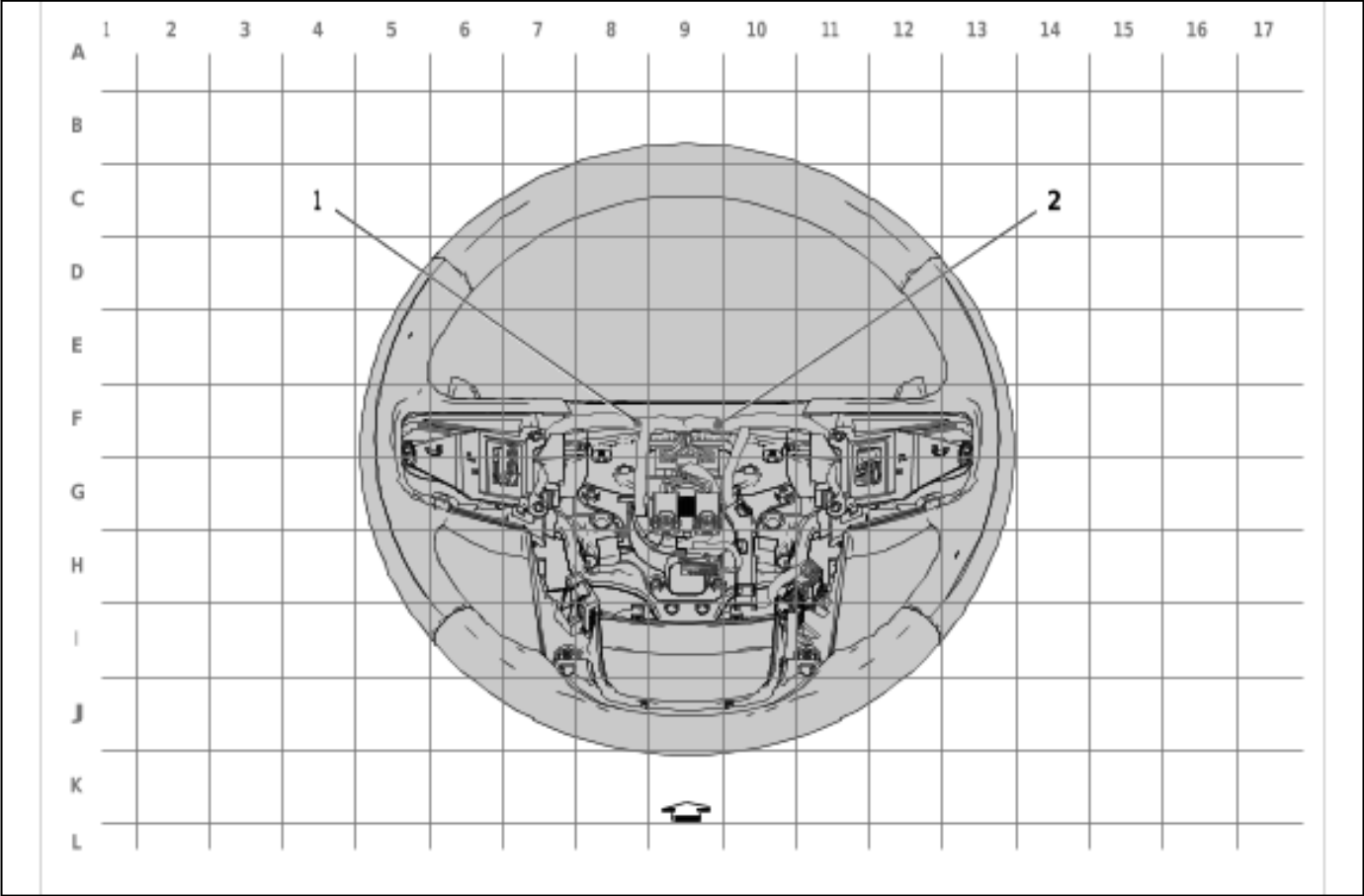
5965519

Items

- (1) X220
X220 Police Accessory Harness to Instrument Panel Wiring Harness (5W4 / 9C1)
- (2) X237 Instrument Panel Wiring Harness to Instrument Panel Airbag Wiring Harness
X237 Instrument Panel Wiring Harness to Instrument Panel Airbag Wiring Harness
- (3) J241 Instrument Panel Wiring Harness
- (4) J239 Instrument Panel Wiring Harness
- (5) J237 Instrument Panel Wiring Harness
- (6) J236 Instrument Panel Wiring Harness
- (7) J238 Instrument Panel Wiring Harness
- (8) J230 Instrument Panel Wiring Harness
- (9) J226 Instrument Panel Wiring Harness

Items
(10) X219 X219 Police Accessory Harness to Instrument Panel Wiring Harness (5W4 / 9C1)
(11) X213A
(12) X213B
(13) J235 Instrument Panel Wiring Harness
(14) X210 Instrument Panel Wiring Harness to Body Wiring Harness X210 Instrument Panel Wiring Harness to Body Wiring Harness
(15) J227 Instrument Panel Wiring Harness
(16) J229 Instrument Panel Wiring Harness
(17) J225 Instrument Panel Wiring Harness
(18) J240 Instrument Panel Wiring Harness
(19) X250 Instrument Panel Wiring Harness to Heater Wiring Harness X250 Instrument Panel Wiring Harness to Heater Wiring Harness
(20) J234 Instrument Panel Wiring Harness
(21) J228 Instrument Panel Wiring Harness (JHD)
(22) X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOK) X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOR)
(23) J242 Instrument Panel Wiring Harness
(24) X211 Instrument Panel Wiring Harness to Body Wiring Harness X211 Instrument Panel Wiring Harness to Body Wiring Harness

Instrument Panel - Steering Wheel Horn Switch Wiring Harness

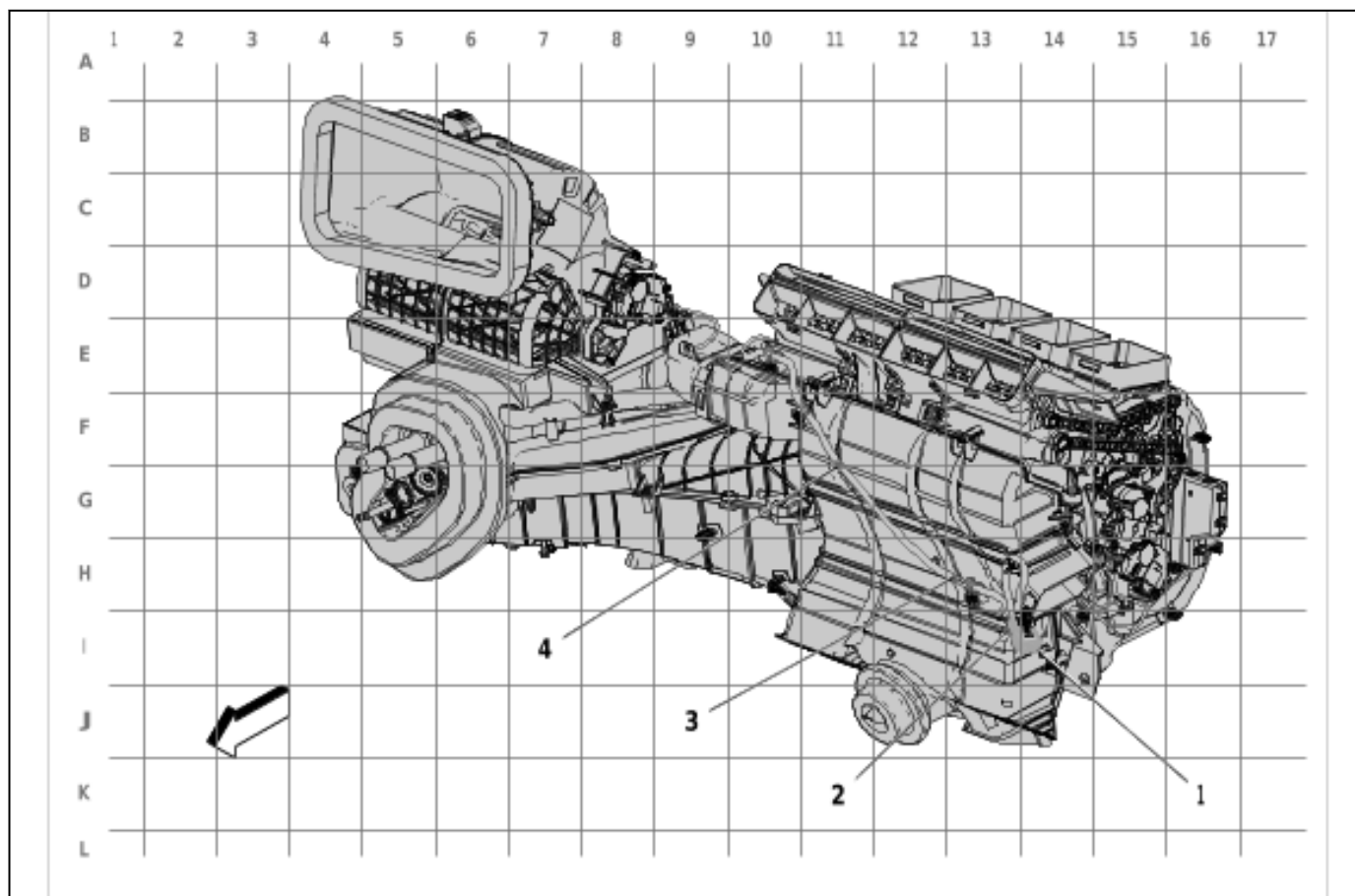


6050075

- Items
- (1) J251 Steering Wheel Horn Switch Wiring Harness (UK3)

(2) J250 Steering Wheel Horn Switch Wiring Harness (UK3)

Instrument Panel - Heater Wiring Harness

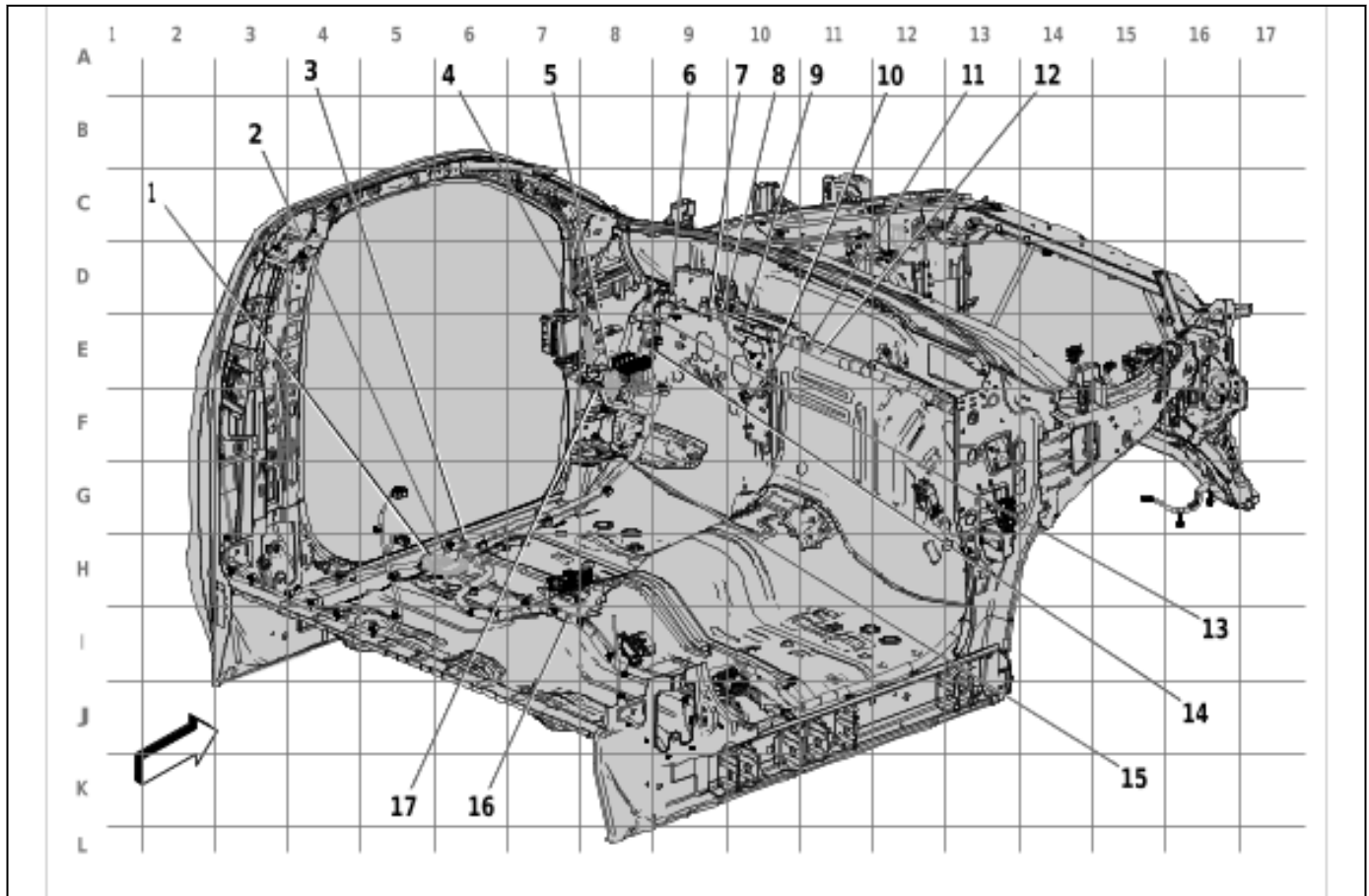


6050077

Items

- (1) X250 Instrument Panel Wiring Harness to Heater Wiring Harness
- X250 Instrument Panel Wiring Harness to Heater Wiring Harness
- (2) J220 Heater Wiring Harness
- (3) J222 Heater Wiring Harness
- (4) J221 Heater Wiring Harness

Passenger Compartment - Body Wiring Harness - Left Front - Regular Cab



6282850

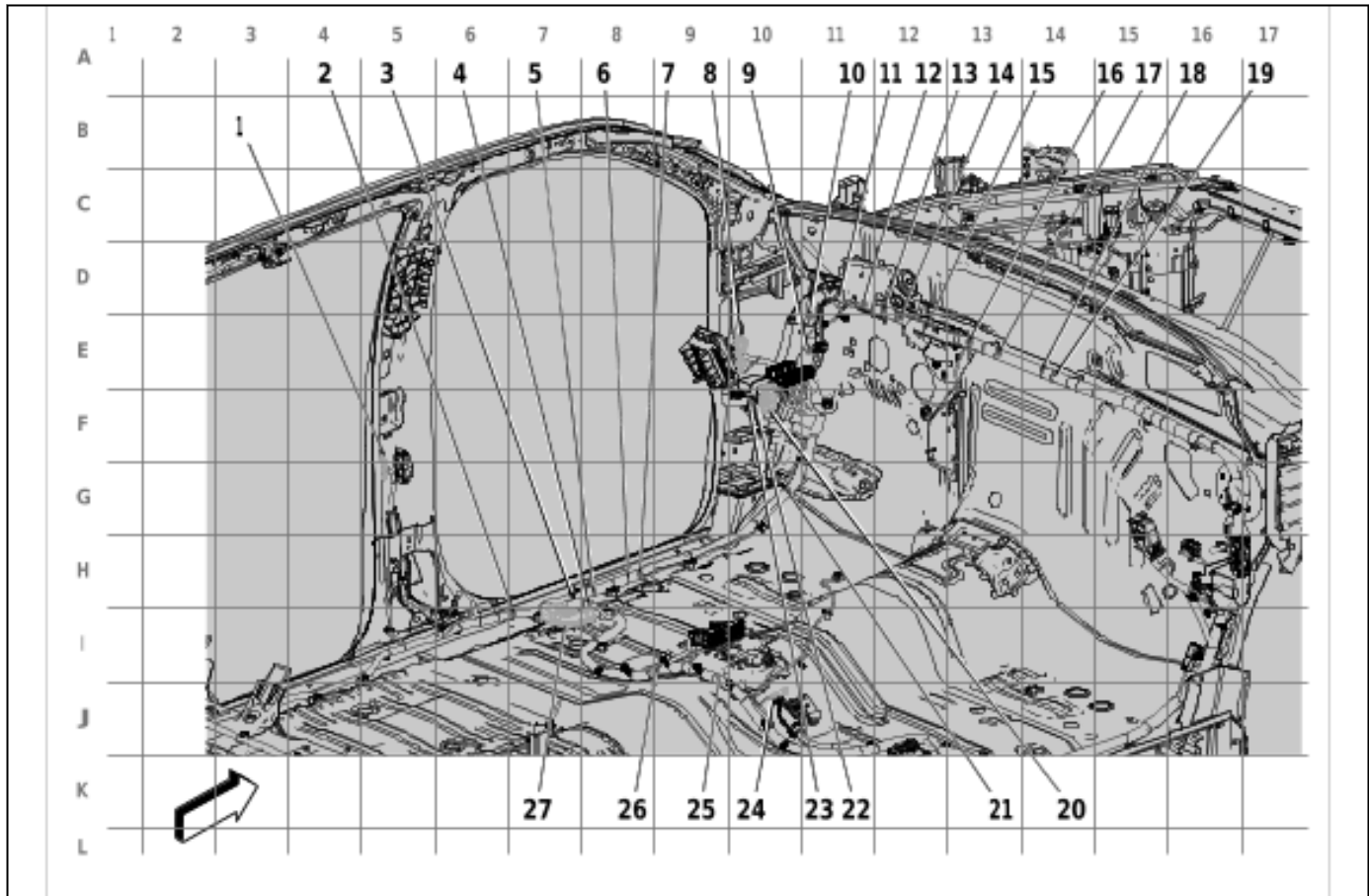
Items

- (1) X331 Front Seat Wiring Harness - Driver to Body Wiring Harness
X331 Front Seat Wiring Harness - Driver to Body Wiring Harness
- (2) J300 Body Wiring Harness
- (3) J302 Body Wiring Harness
- (4) X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness
X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness
- (5) X210 Instrument Panel Wiring Harness to Body Wiring Harness
X210 Instrument Panel Wiring Harness to Body Wiring Harness
- (6) J205 Body Wiring Harness
- (7) J207 Body Wiring Harness
- (8) J208 Body Wiring Harness
- (9) J209 Body Wiring Harness
- (10) J210 Body Wiring Harness
- (11) J211 Body Wiring Harness
- (12) J306 Body Wiring Harness
- (13) J204 Body Wiring Harness (KC9/KCA)
- (14) J203 Body Wiring Harness (LZ0)

Items

- (15) J200 Body Wiring Harness (LZ0)
- (16) J308 Body Wiring Harness
- (17) J201 Body Wiring Harness (FHX)

Passenger Compartment - Body Wiring Harness - Left Front - Double Cab/Crew Cab



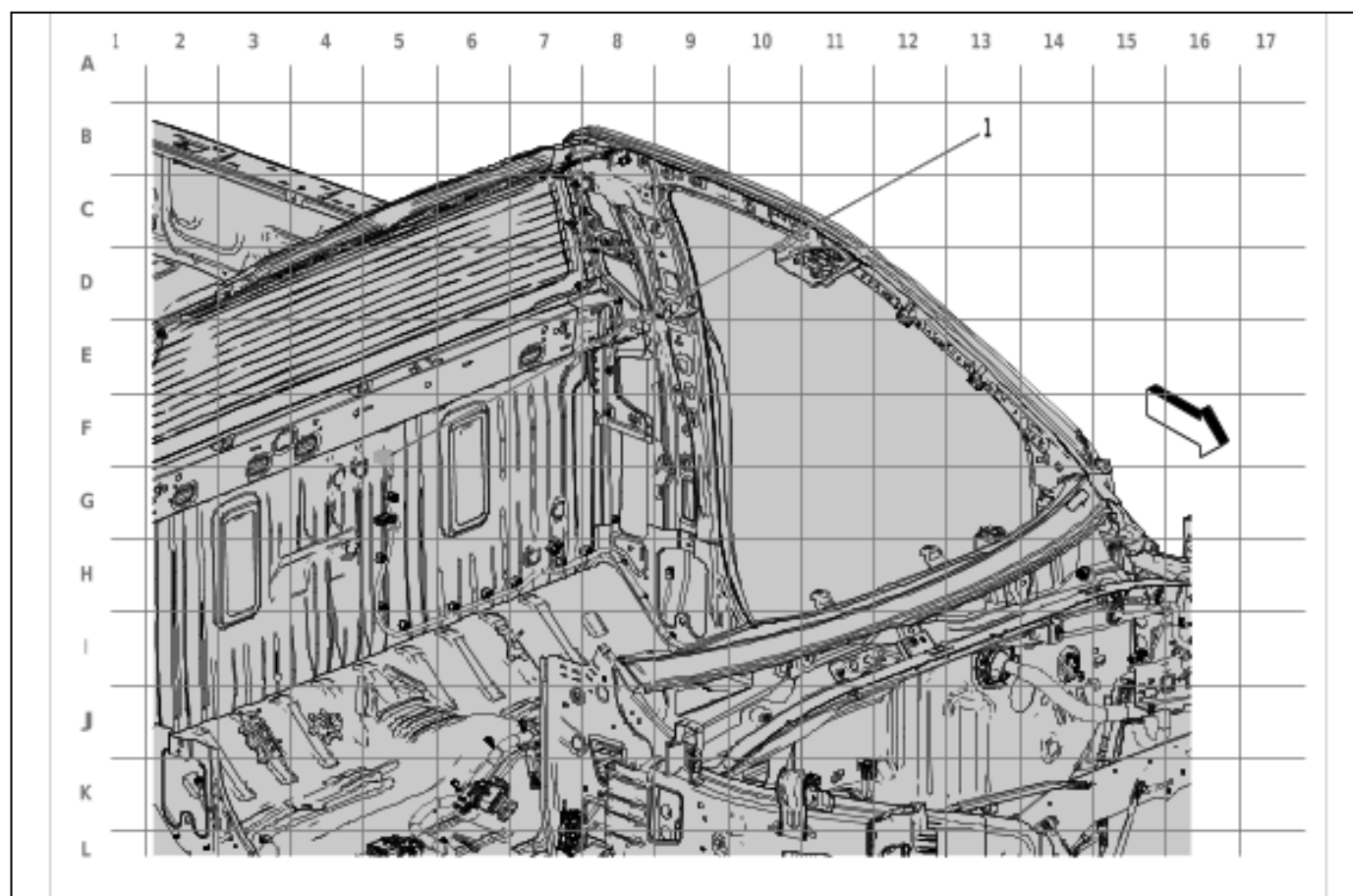
5965521

Items

- (1) X700 Rear Side Door Door Wiring Harness - Left Rear to Body Wiring Harness (Double Cab / Crew Cab)
- X700 Rear Side Door Door Wiring Harness - Left Rear to Body Wiring Harness
- (2) J311 Body Wiring Harness
- (3) J303 Body Wiring Harness
- (4) J306 Body Wiring Harness
- (5) J302 Body Wiring Harness
- (6) J301 Body Wiring Harness
- (7) J300 Body Wiring Harness
- (8) X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness
- X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness
- (9) J203 Body Wiring Harness (LZ0)
- (10) J204 Body Wiring Harness (KC9/KCA)
- (11) J205 Body Wiring Harness

Items
(12) J206 Body Wiring Harness
(13) J207 Body Wiring Harness
(14) J208 Body Wiring Harness
(15) J209 Body Wiring Harness
(16) J210 Body Wiring Harness
(17) J211 Body Wiring Harness
(18) J212 Body Wiring Harness
(19) J213 Body Wiring Harness
(20) X210 Instrument Panel Wiring Harness to Body Wiring Harness
X210 Instrument Panel Wiring Harness to Body Wiring Harness
(21) J200 Body Wiring Harness (LZ0)
(22) J201 Body Wiring Harness (FHX)
(23) J202 Body Wiring Harness (BRS)
(24) X225 Front Floor Console Wiring Harness to Body Wiring Harness (D07)
X225 Front Floor Console Wiring Harness to Body Wiring Harness
(25) J308 Body Wiring Harness
(26) J307 Body Wiring Harness
(27) X331 Front Seat Wiring Harness - Driver to Body Wiring Harness
X331 Front Seat Wiring Harness - Driver to Body Wiring Harness

Passenger Compartment - Body Wiring Harness - Left Rear - Regular Cab

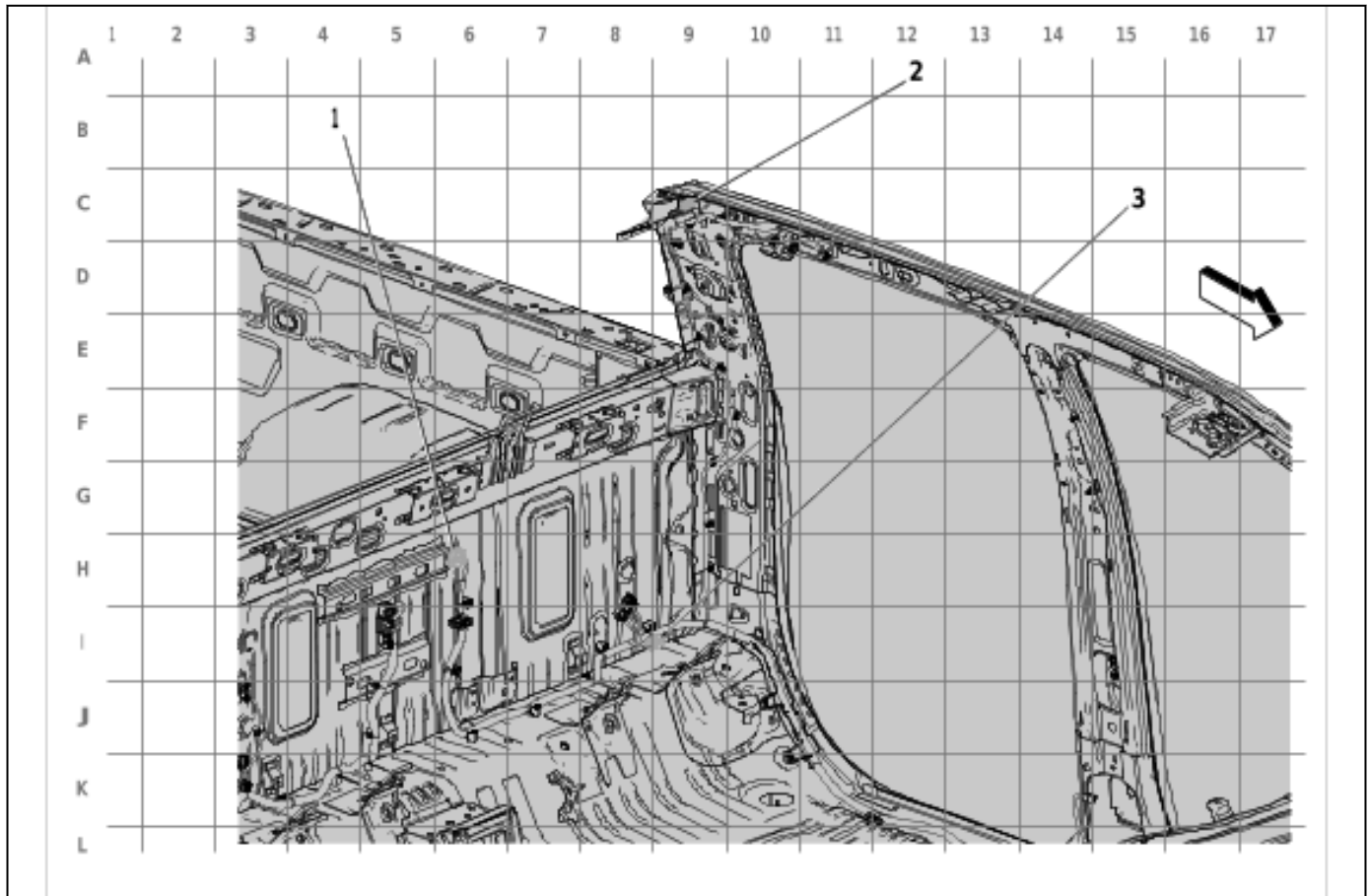


5965522

Items

- (1) X324 Body Wiring Harness to Body Rear Wiring
Harness Extension Harness (KI5)
X324 Body Wiring Harness to Body Rear Wiring Harness
Extension Harness (KI5)

Passenger Compartment - Body Wiring Harness - Left Rear - Double Cab/Crew Cab

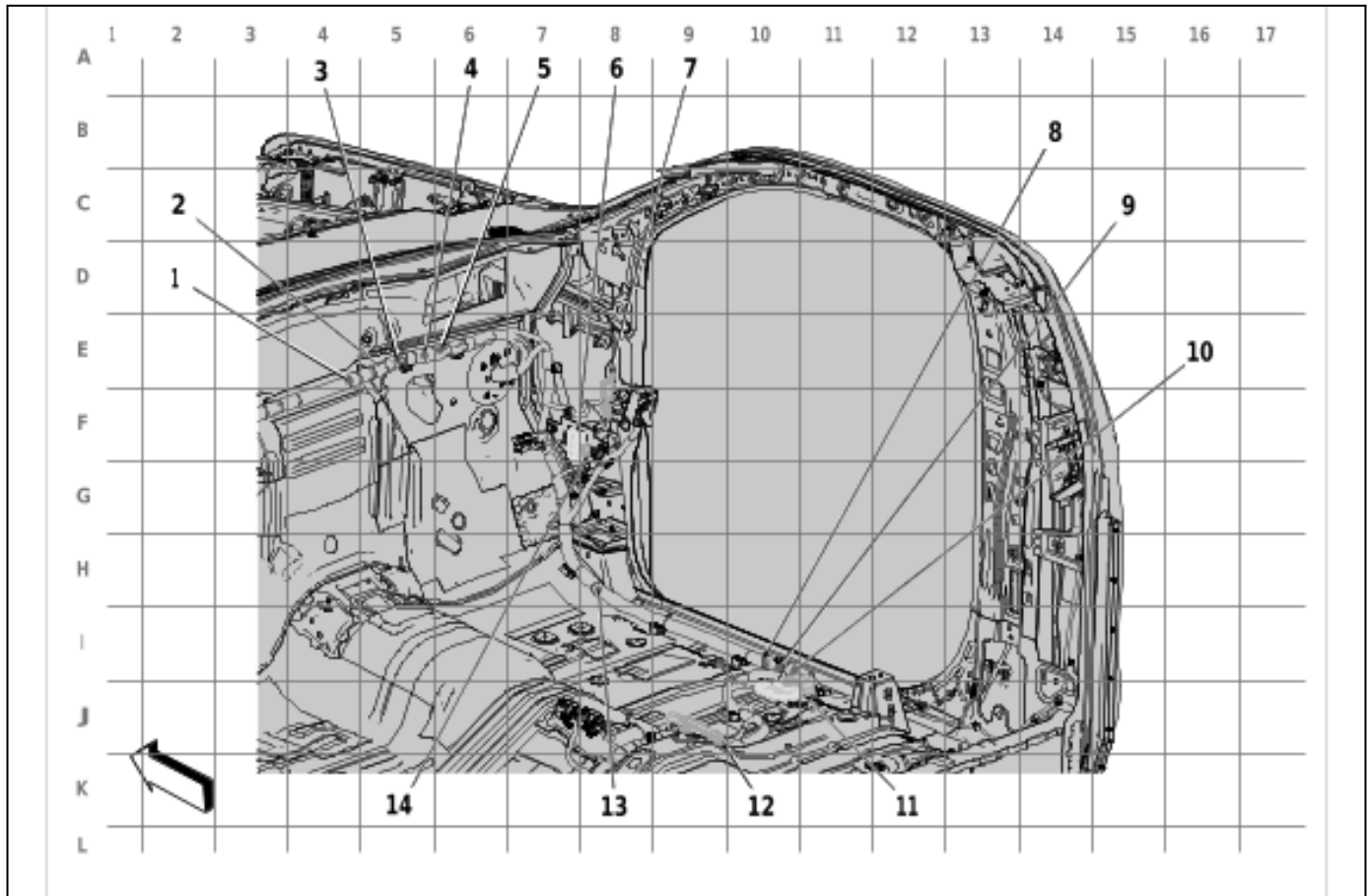


5965523

Items

- | |
|--|
| (1) X324 Body Wiring Harness to Body Rear Wiring
Harness Extension Harness (KI5)
X324 Body Wiring Harness to Body Rear Wiring Harness
Extension Harness (KI5)
(2) X309 Body Wiring Harness to Inside Rearview Mirror
Wiring Harness - Jumper (UVN)
X309 Body Wiring Harness to Inside Rearview Mirror Wiring
Harness - Jumper (UVN)
(3) X340 Body Wiring Harness to Rear Seat Heater Control
Wiring Harness (KA6)
X340 Body Wiring Harness to Rear Seat Heater Control
Wiring Harness (KA6) |
|--|

Passenger Compartment - Body Wiring Harness - Right Front - Regular Cab



5965524

Items

- (1) J212 Body Wiring Harness
- (2) J215 Body Wiring Harness
- (3) J213 Body Wiring Harness
- (4) J218 Body Wiring Harness
- (5) J217 Body Wiring Harness
- (6) X211 Instrument Panel Wiring Harness to Body Wiring Harness
- X211 Instrument Panel Wiring Harness to Body Wiring Harness
- (7) X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness
- X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness - Double Cab / Crew Cab
- X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness - Regular Cab
- (8) J304 Body Wiring Harness
- (9) J310 Body Wiring Harness
- (10) J305 Body Wiring Harness
- (11) X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
- X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness

Items

(12) X227 Front Floor Console Wiring Harness to Body Wiring Harness - Double Cab / Crew Cab

X227 Front Floor Console Wiring Harness to Body Wiring Harness - Double Cab / Crew Cab

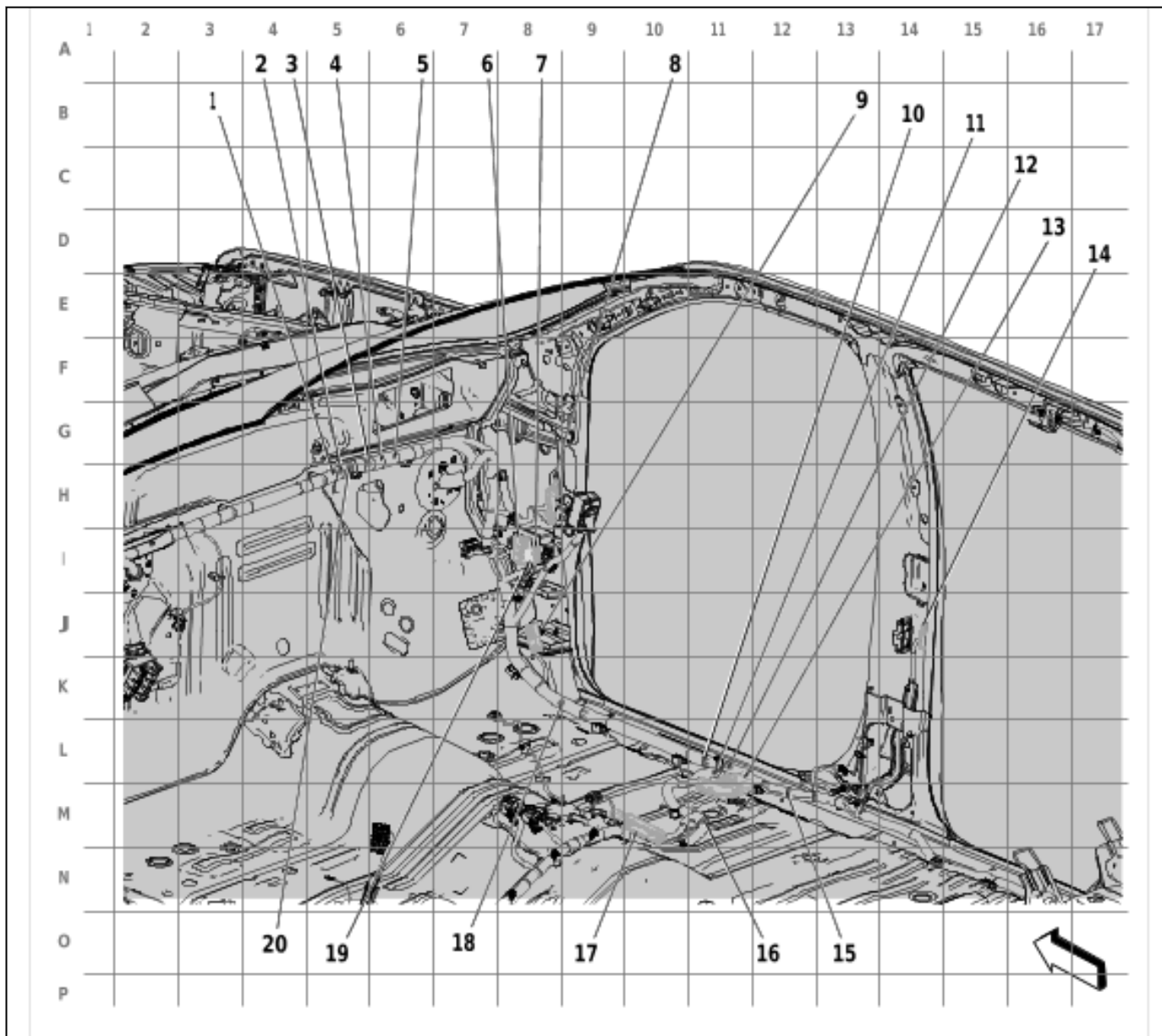
X227 Front Floor Console Wiring Harness to Body Wiring Harness - Regular Cab

(13) J314 Body Wiring Harness

(14) X217 Body Wiring Harness to Instrument Panel Wiring Harness

X217 Body Wiring Harness to Instrument Panel Wiring Harness

Passenger Compartment - Body Wiring Harness - Right Front -Double Cab/Crew Cab



5965525

Items

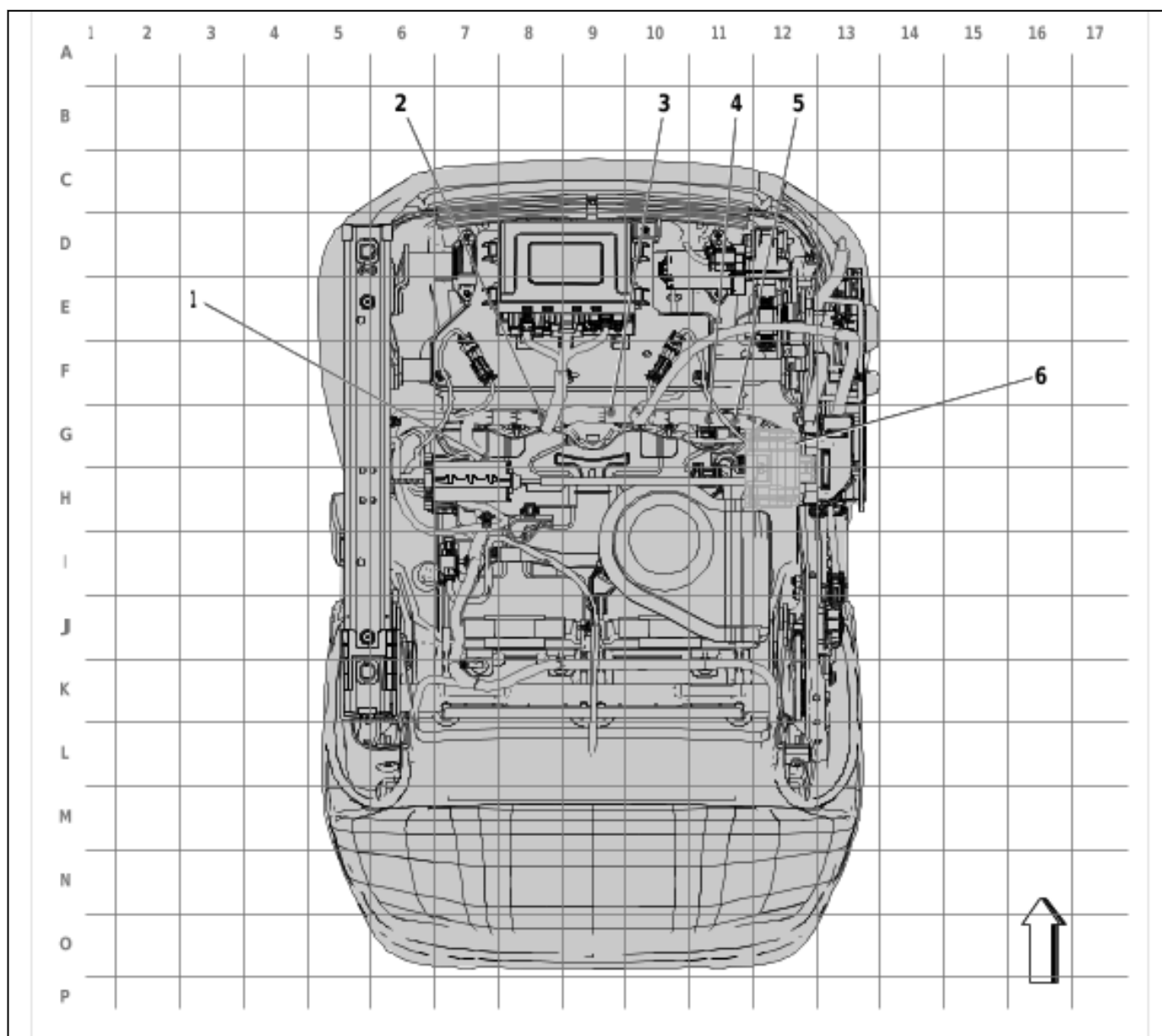
(1) J215 Body Wiring Harness

(2) J213 Body Wiring Harness

Items

- (3) J218 Body Wiring Harness
- (4) J217 Body Wiring Harness
- (5) J219 Body Wiring Harness
- (6) X211 Instrument Panel Wiring Harness to Body Wiring Harness
X211 Instrument Panel Wiring Harness to Body Wiring Harness
- (7) X218 Instrument Panel Wiring Harness to Body Wiring Harness
X218 Instrument Panel Wiring Harness to Body Wiring Harness
- (8) X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness
X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness - Double Cab / Crew Cab
X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness - Regular Cab
- (9) X251 HVAC Wiring Harness to Body Wiring Harness (C32)
X251 HVAC Wiring Harness to Body Wiring Harness (C32)
- (10) J304 Body Wiring Harness
- (11) J310 Body Wiring Harness
- (12) J305 Body Wiring Harness
- (13) X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
- (14) X800 Rear Side Door Door Wiring Harness - Right Rear to Body Wiring Harness (Double Cab / Crew Cab)
X800 Rear Side Door Door Wiring Harness - Right Rear to Body Wiring Harness
- (15) J312 Body Wiring Harness
- (16) J309 Body Wiring Harness
- (17) X227 Front Floor Console Wiring Harness to Body Wiring Harness - Double Cab / Crew Cab
X227 Front Floor Console Wiring Harness to Body Wiring Harness - Double Cab / Crew Cab
X227 Front Floor Console Wiring Harness to Body Wiring Harness - Regular Cab
- (18) J314 Body Wiring Harness
- (19) X217 Body Wiring Harness to Instrument Panel Wiring Harness
X217 Body Wiring Harness to Instrument Panel Wiring Harness
- (20) J216 Body Wiring Harness

Passenger Compartment - Front Seat Wiring Harness - Driver

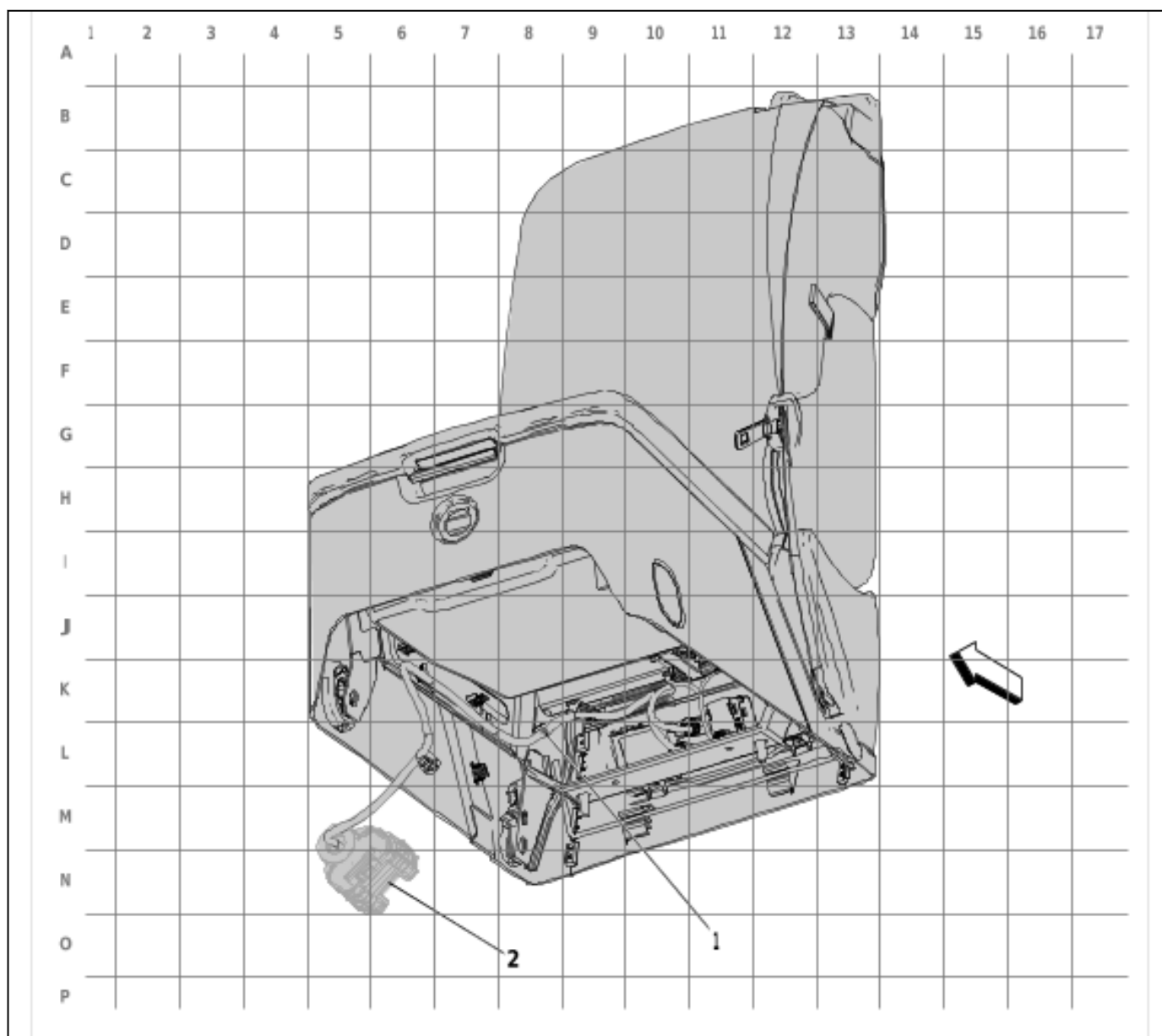


5970779

Items

- | |
|--|
| (1) J339 Front Seat Wiring Harness - Driver (KA1/KQV) |
| (2) J329 Front Seat Wiring Harness - Driver (KQV) |
| (3) J328 Front Seat Wiring Harness - Driver (A45) |
| (4) J336 Front Seat Wiring Harness - Driver (KQV) |
| (5) J338 Front Seat Wiring Harness - Driver |
| (6) X331 Front Seat Wiring Harness - Driver to Body Wiring Harness |
| X331 Front Seat Wiring Harness - Driver to Body Wiring Harness |

Passenger Compartment - Front Seat Wiring Harness - Center (AZ3 - 5Y1)



5990989

Items

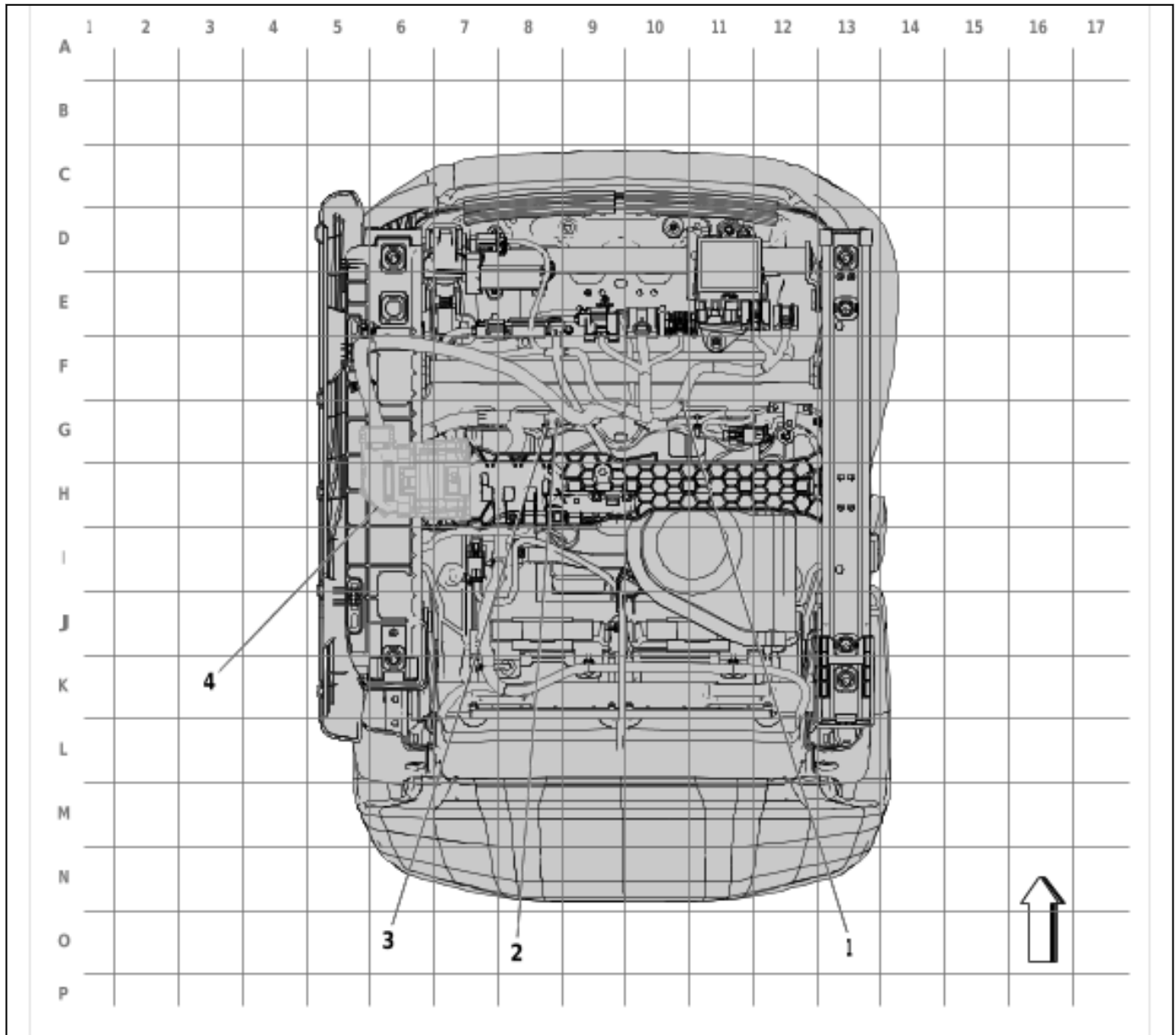
(1) J345 Front Seat Wiring Harness - Center (AZ3)

(2) X227 Front Floor Console Wiring Harness to Body
Wiring Harness - Double Cab / Crew Cab

X227 Front Floor Console Wiring Harness to Body Wiring
Harness - Double Cab / Crew Cab

X227 Front Floor Console Wiring Harness to Body Wiring
Harness - Regular Cab

Passenger Compartment - Front Seat Wiring Harness - Passenger

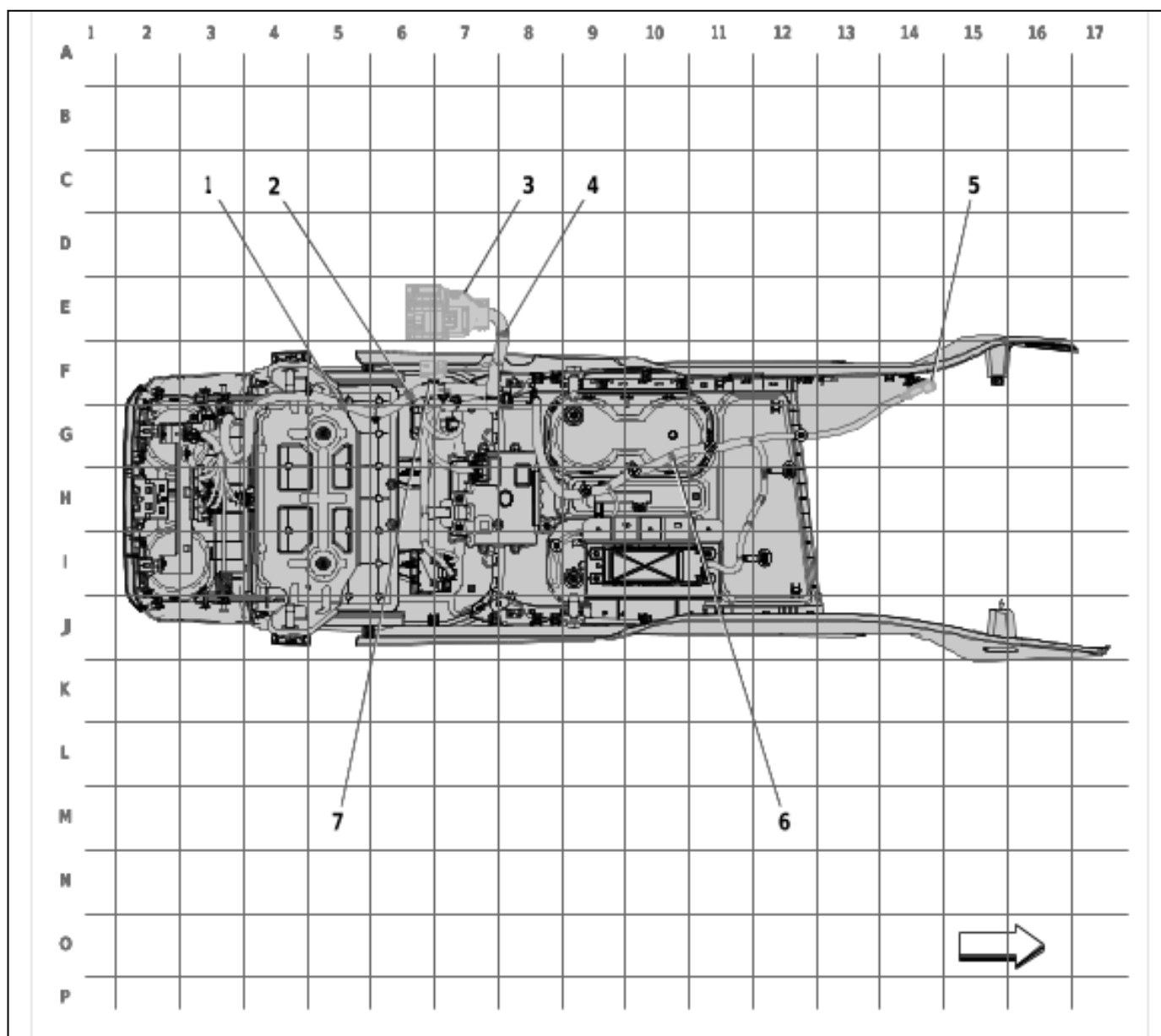


5970780

Items

- (1) J349 Front Seat Wiring Harness - Passenger (KQV)
- (2) J351 Front Seat Wiring Harness - Passenger
- (3) J352 Front Seat Wiring Harness - Passenger (KA1/KQV)
- (4) X336 Front Seat Wiring Harness - Passenger to Body
Wiring Harness
- X336 Front Seat Wiring Harness - Passenger to Body
Wiring Harness

Passenger Compartment - Front Floor Console Wiring Harness (D07)



5970781

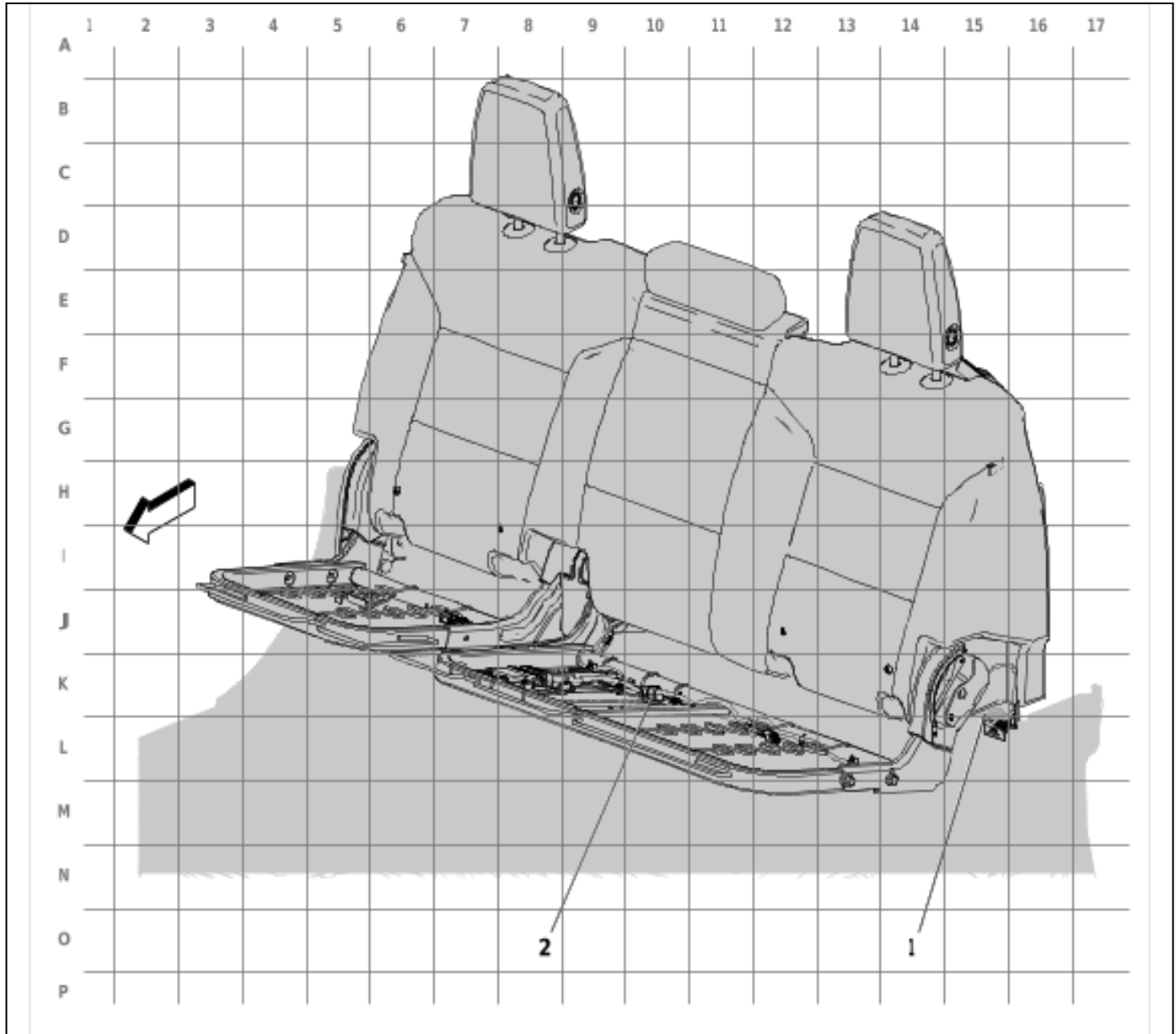
Items

- (1) J341 Front Floor Console Wiring Harness
- (2) J342 Front Floor Console Wiring Harness
- (3) X227 Front Floor Console Wiring Harness to Body Wiring Harness - Double Cab / Crew Cab
- X227 Front Floor Console Wiring Harness to Body Wiring Harness - Double Cab / Crew Cab
- X227 Front Floor Console Wiring Harness to Body Wiring Harness - Regular Cab
- (4) J340 Front Floor Console Wiring Harness
- (5) X226 Front Floor Console Wiring Harness to Instrument Panel Wiring Harness (D07)
- X226 Front Floor Console Wiring Harness to Instrument Panel Wiring Harness

Items

- (6) J344 Front Floor Console Wiring Harness
- (7) X225 Front Floor Console Wiring Harness to Body Wiring Harness (D07)
- X225 Front Floor Console Wiring Harness to Body Wiring Harness

Passenger Compartment - Rear Seat Heater Control Wiring Harness

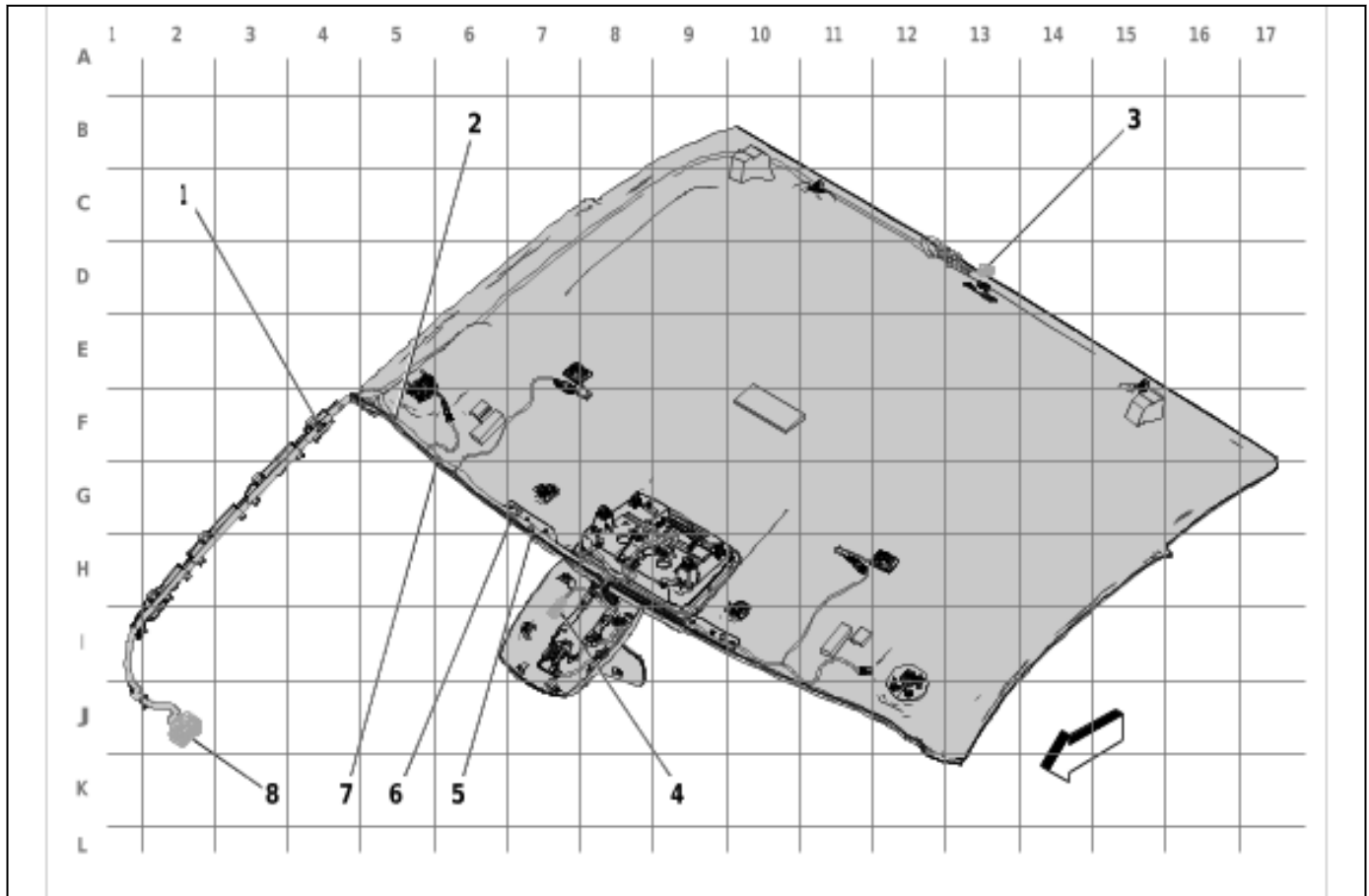


5970782

Items

- (1) X340 Body Wiring Harness to Rear Seat Heater Control Wiring Harness (KA6)
- X340 Body Wiring Harness to Rear Seat Heater Control Wiring Harness (KA6)
- (2) J350 Rear Seat Heater Control Wiring Harness - 2nd Row (KA6)

Roof - Dome Lamp Wiring Harness - Regular Cab

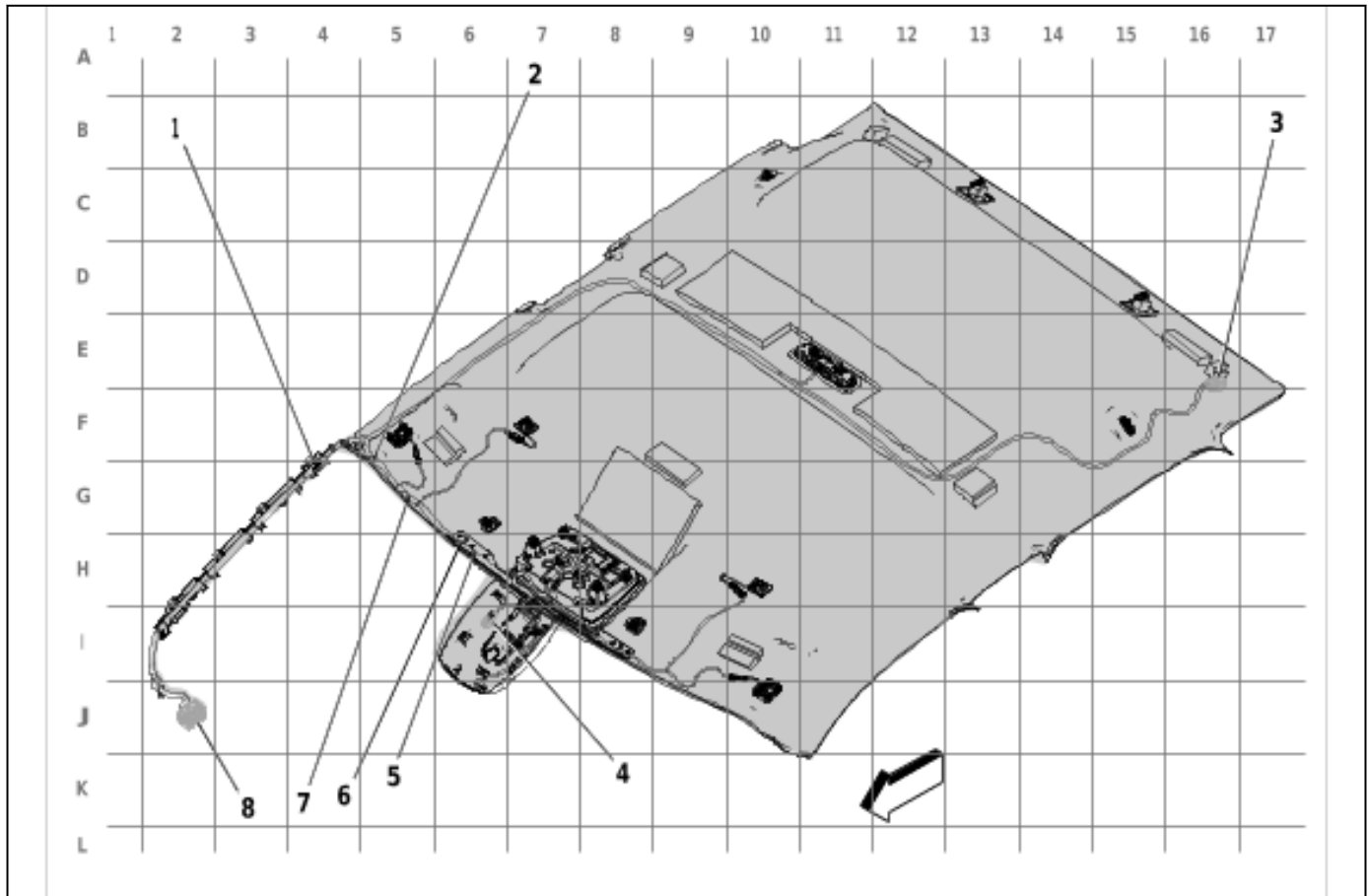


5965526

Items

- (1) J330 Dome Lamp Wiring Harness
- (2) J331 Dome Lamp Wiring Harness
- (3) X371 Inside Rearview Mirror Wiring Harness - Jumper to High Mount Stop Lamp Wiring Harness
X371 Dome Lamp Wiring Harness to High Mount Stop Lamp Wiring Harness - Regular Cab
X371 Inside Rearview Mirror Wiring Harness - Jumper to Dome Lamp Wiring Harness - Double Cab / Crew Cab
- (4) X382 Headlamp Automatic Control Ambient Light Sensor Wiring Harness to Dome Lamp Wiring Harness (ASV)
X382 Headlamp Automatic Control Ambient Light Sensor Wiring Harness to Dome Lamp Wiring Harness
- (5) J334 Dome Lamp Wiring Harness
- (6) J333 Dome Lamp Wiring Harness
- (7) J332 Dome Lamp Wiring Harness
- (8) X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness
X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOK)
X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOR)

Roof - Dome Lamp Wiring Harness - Double Cab

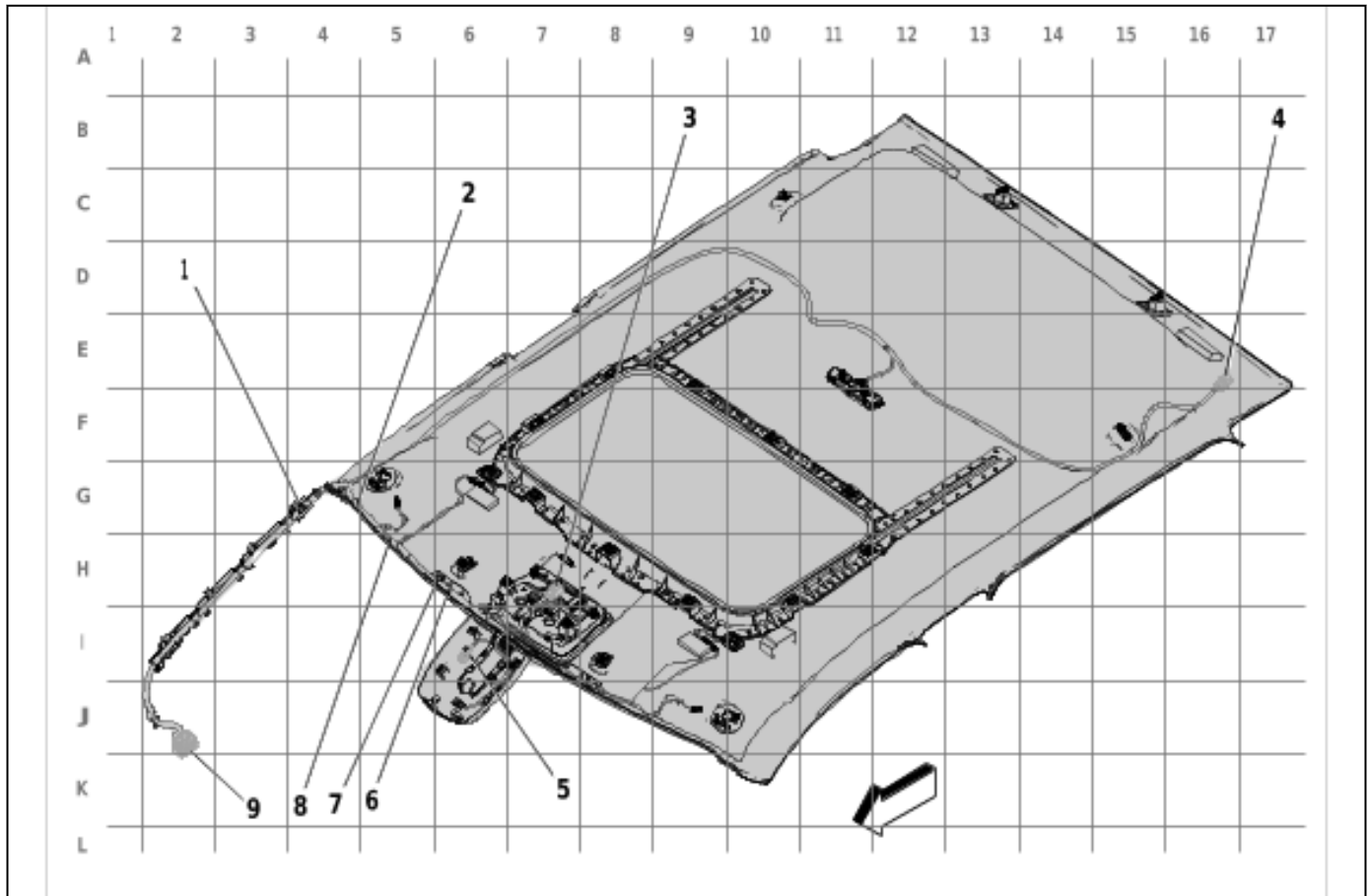


5965527

Items

- (1) J330 Dome Lamp Wiring Harness
- (2) J331 Dome Lamp Wiring Harness
- (3) X371 Inside Rearview Mirror Wiring Harness - Jumper to High Mount Stop Lamp Wiring Harness
X371 Dome Lamp Wiring Harness to High Mount Stop Lamp Wiring Harness - Regular Cab
X371 Inside Rearview Mirror Wiring Harness - Jumper to Dome Lamp Wiring Harness - Double Cab / Crew Cab
- (4) X382 Headlamp Automatic Control Ambient Light Sensor Wiring Harness to Dome Lamp Wiring Harness (ASV)
X382 Headlamp Automatic Control Ambient Light Sensor Wiring Harness to Dome Lamp Wiring Harness
- (5) J334 Dome Lamp Wiring Harness
- (6) J333 Dome Lamp Wiring Harness
- (7) J332 Dome Lamp Wiring Harness
- (8) X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness
X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOK)
X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOR)

Roof - Dome Lamp Wiring Harness - Crew Cab

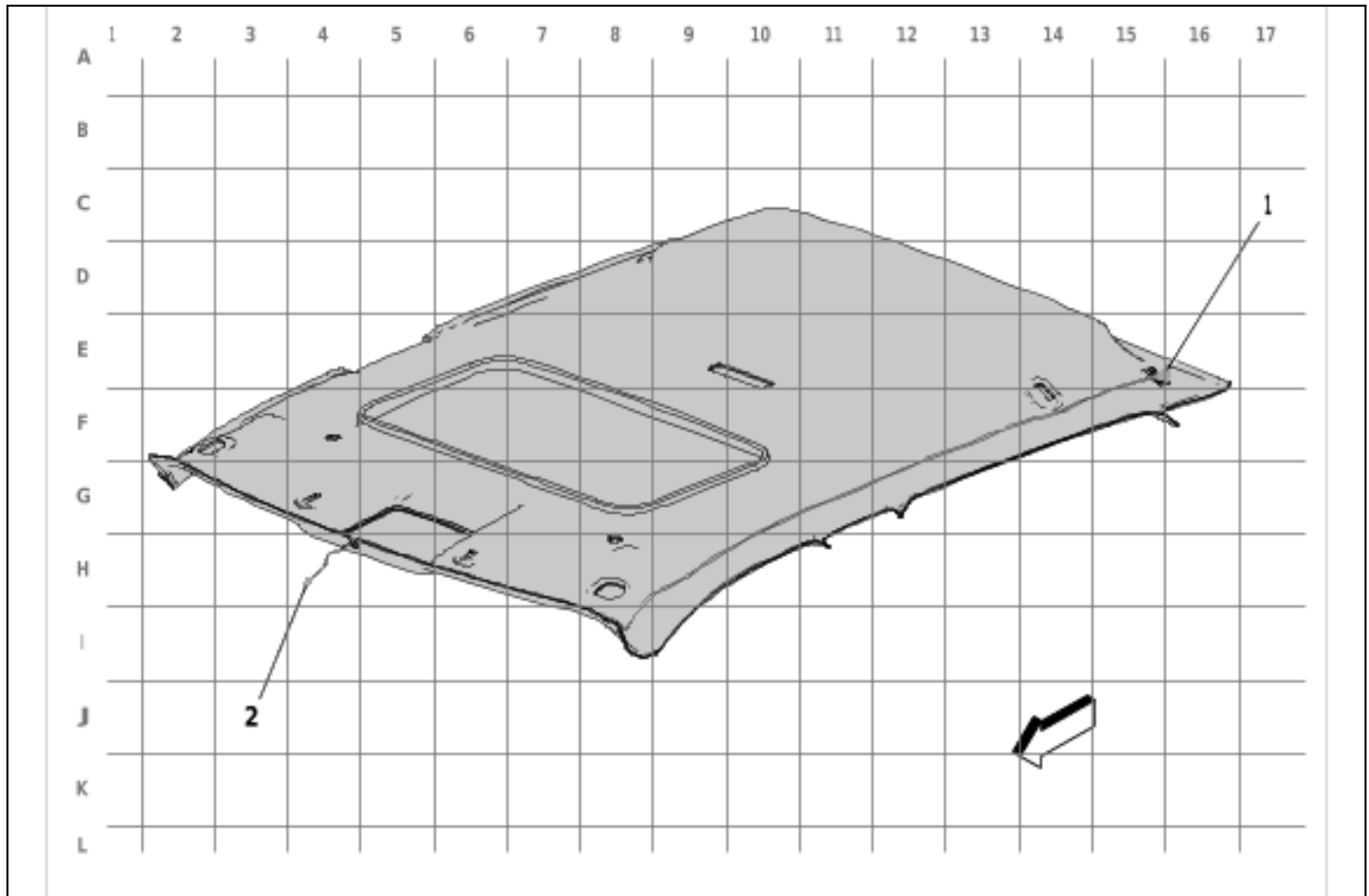


5965528

Items

- (1) J330 Dome Lamp Wiring Harness
- (2) J331 Dome Lamp Wiring Harness
- (3) X375 Sunroof Wiring Harness to Dome Lamp Wiring Harness (CF5)
X375 Sunroof Wiring Harness to Dome Lamp Wiring Harness (CF5)
- (4) X371 Inside Rearview Mirror Wiring Harness - Jumper to High Mount Stop Lamp Wiring Harness
X371 Dome Lamp Wiring Harness to High Mount Stop Lamp Wiring Harness - Regular Cab
X371 Inside Rearview Mirror Wiring Harness - Jumper to Dome Lamp Wiring Harness - Double Cab / Crew Cab
- (5) X382 Headlamp Automatic Control Ambient Light Sensor Wiring Harness to Dome Lamp Wiring Harness (ASV)
X382 Headlamp Automatic Control Ambient Light Sensor Wiring Harness to Dome Lamp Wiring Harness
- (6) J334 Dome Lamp Wiring Harness
- (7) J333 Dome Lamp Wiring Harness
- (8) J332 Dome Lamp Wiring Harness
- (9) X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness
X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOK)
X370 Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (IOR)

Roof - Rearview Driver Information Camera Rear Closure Coaxial Cable (DRZ)



6050079

Items

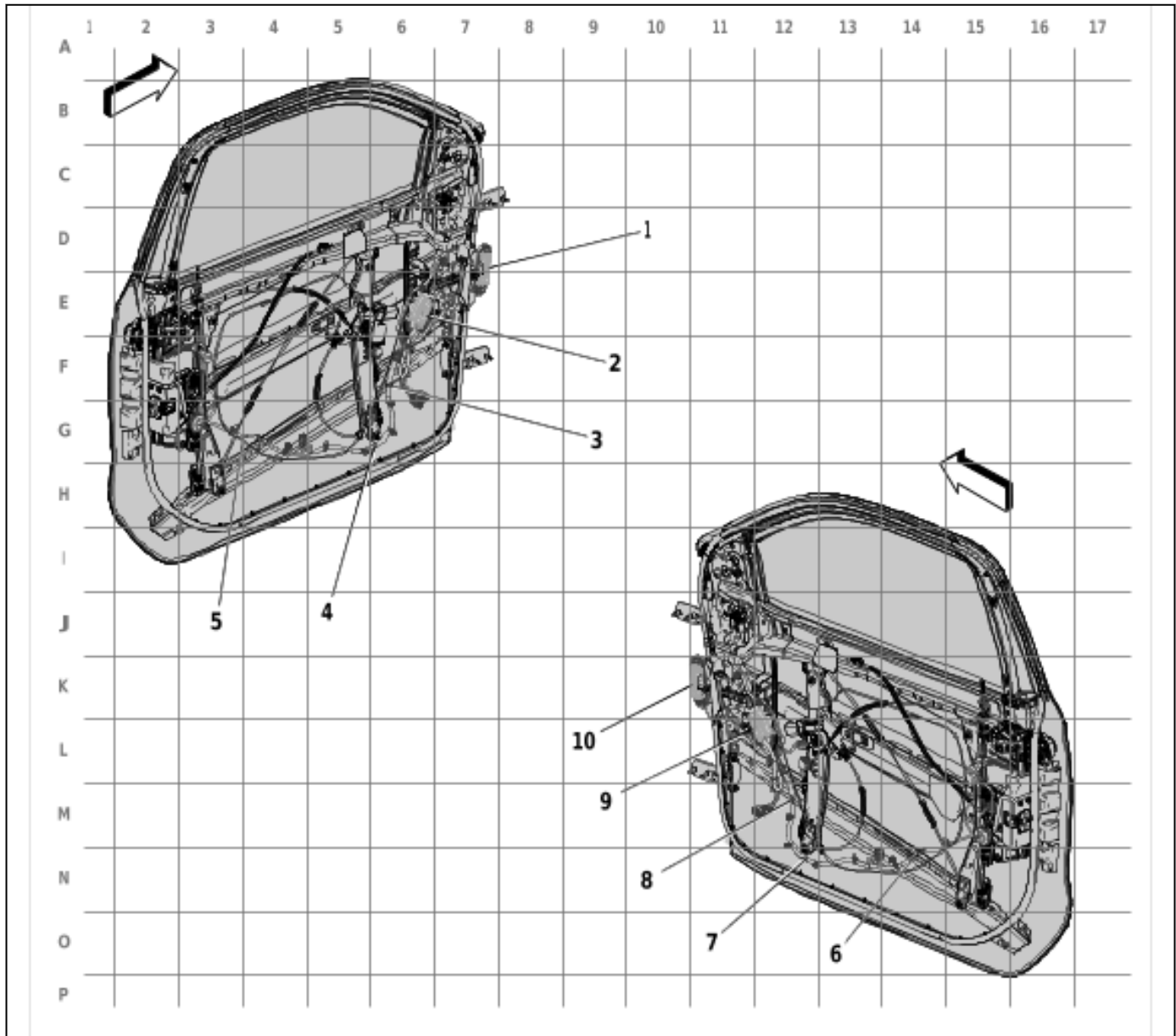
(1) X985 Rearview Driver Information Camera Rear Closure Coaxial Cable to Inside Rearview Mirror Wiring Harness - Jumper (DRZ)

X985 Rearview Driver Information Camera Rear Closure Coaxial Cable to Inside Rearview Mirror Wiring Harness - Jumper (DRZ)

(2) X381 Rearview Driver Information Camera Rear Closure Coaxial Cable to Inside Rearview Mirror Driver Information Coaxial Cable (DRZ)

X381 Rearview Driver Information Camera Rear Closure Coaxial Cable to Inside Rearview Mirror Driver Information Coaxial Cable (DRZ)

Doors - Front Side Door Door Wiring Harnesses - Regular Cab



5965530

Items

- (1) X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness
- X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness
- (2) X505 Front Side Door Door Wiring Harness - Driver to Front Side Door Door Lock Door Wiring Harness - Driver
- X505 Front Side Door Door Wiring Harness - Driver to Front Side Door Door Lock Door Wiring Harness - Driver
- (3) J500 Front Side Door Door Wiring Harness - Driver
- (4) J501 Front Side Door Door Wiring Harness - Driver
- (5) J502 Front Side Door Door Wiring Harness - Driver
- (6) J602 Front Side Door Door Wiring Harness - Passenger
- (7) J600 Front Side Door Door Wiring Harness - Passenger
- (8) J601 Front Side Door Door Wiring Harness - Passenger

Items

(9) X605 Front Side Door Door Wiring Harness - Passenger to Front Side Door Door Lock Door Wiring Harness - Passenger

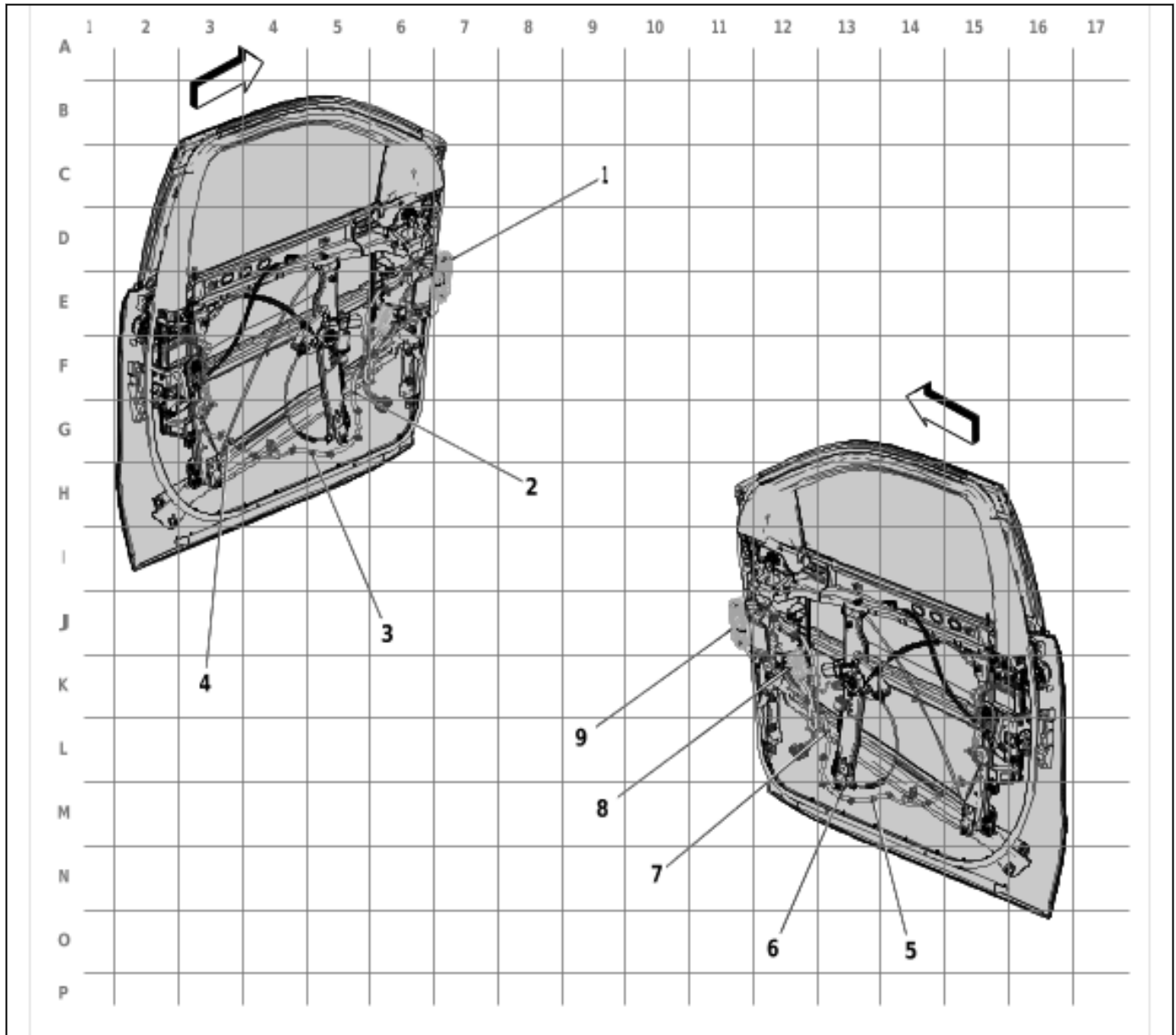
X605 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness

(10) X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness

X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness - Double Cab / Crew Cab

X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness - Regular Cab

Doors - Front Side Door Door Wiring Harnesses - Double Cab/Crew Cab

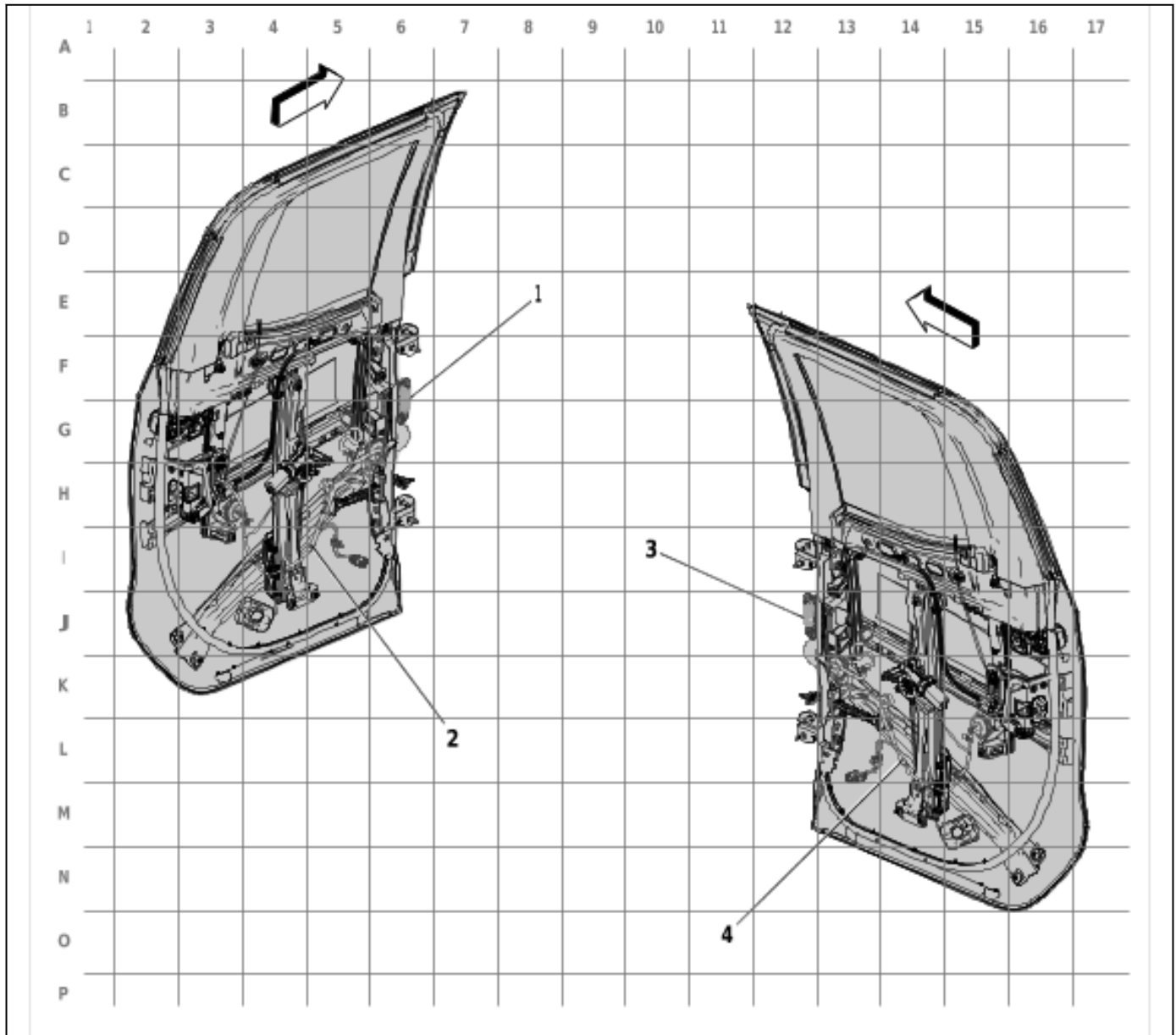


5965531

Items

- (1) X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness
X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness
- (2) J500 Front Side Door Door Wiring Harness - Driver
- (3) J501 Front Side Door Door Wiring Harness - Driver
- (4) J502 Front Side Door Door Wiring Harness - Driver
- (5) J602 Front Side Door Door Wiring Harness - Passenger
- (6) J601 Front Side Door Door Wiring Harness - Passenger
- (7) J600 Front Side Door Door Wiring Harness - Passenger
- (8) X605 Front Side Door Door Wiring Harness - Passenger to Front Side Door Door Lock Door Wiring Harness - Passenger
X605 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness
- (9) X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness
X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness - Double Cab / Crew Cab
X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness - Regular Cab

Doors - Rear Side Door Door Wiring Harnesses - Double Cab



5965532

Items

(1) X700 Rear Side Door Door Wiring Harness - Left Rear to Body Wiring Harness (Double Cab / Crew Cab)

X700 Rear Side Door Door Wiring Harness - Left Rear to Body Wiring Harness

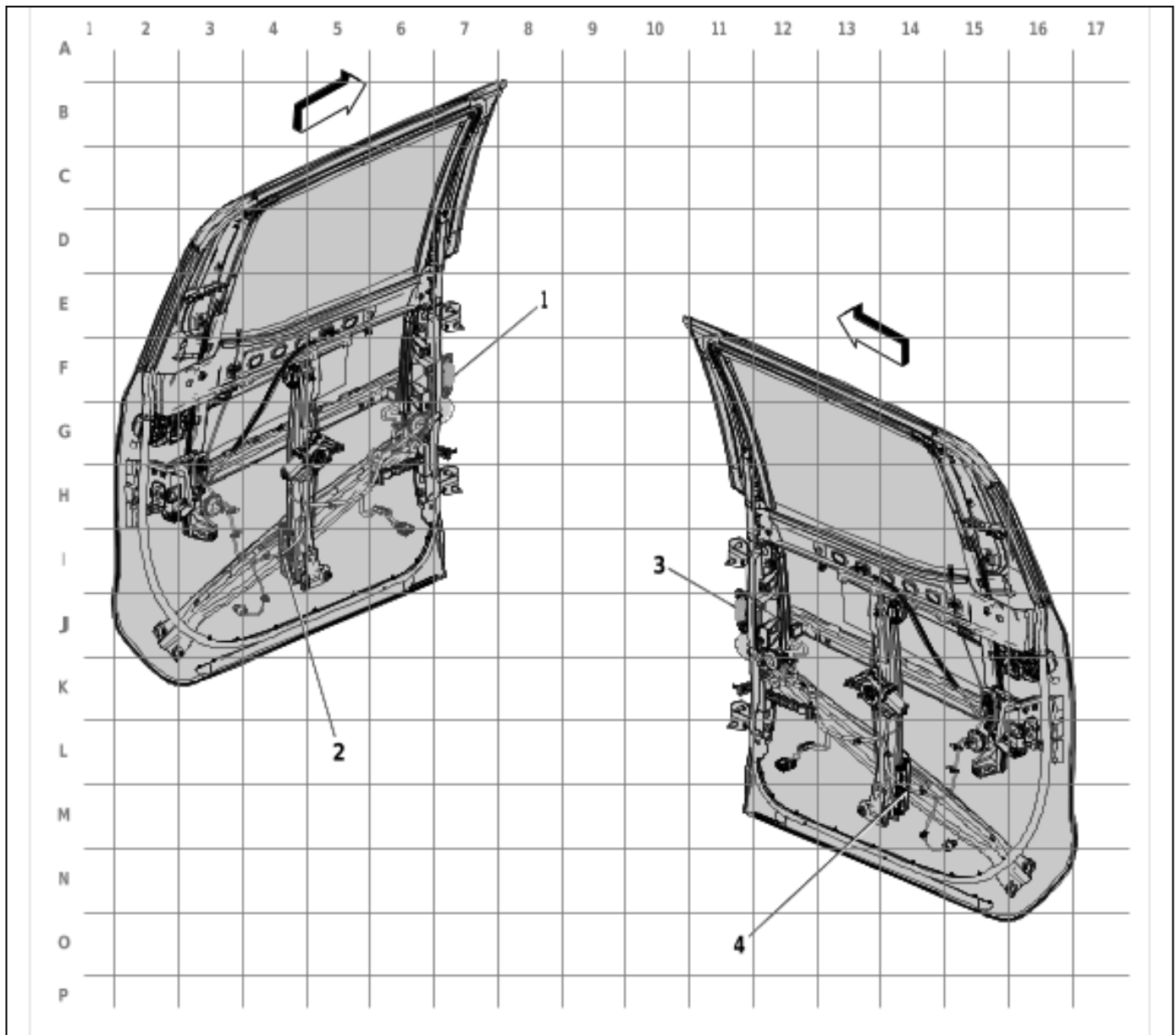
(2) J702 Rear Side Door Door Wiring Harness - Left

(3) X800 Rear Side Door Door Wiring Harness - Right Rear to Body Wiring Harness (Double Cab / Crew Cab)

X800 Rear Side Door Door Wiring Harness - Right Rear to Body Wiring Harness

(4) J802 Rear Side Door Door Wiring Harness - Right

Doors - Rear Side Door Door Wiring Harnesses - Crew Cab



5965533

Items

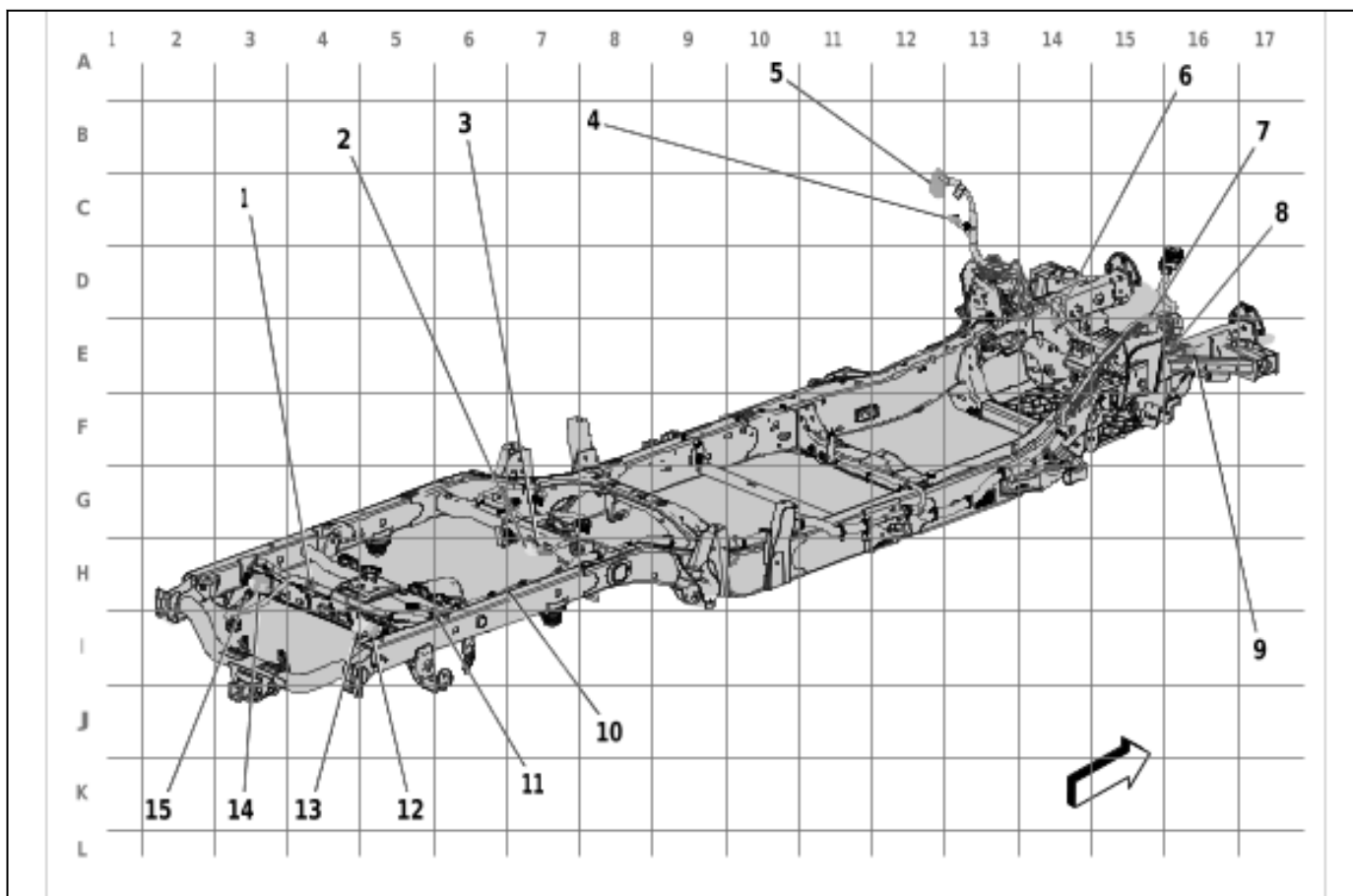
(1) X700 Rear Side Door Door Wiring Harness - Left Rear to Body Wiring Harness (Double Cab / Crew Cab)
 X700 Rear Side Door Door Wiring Harness - Left Rear to Body Wiring Harness

(2) J702 Rear Side Door Door Wiring Harness - Left

(3) X800 Rear Side Door Door Wiring Harness - Right Rear to Body Wiring Harness (Double Cab / Crew Cab)
 X800 Rear Side Door Door Wiring Harness - Right Rear to Body Wiring Harness

(4) J802 Rear Side Door Door Wiring Harness - Right

Vehicle Underbody - Chassis Wiring Harness - Regular Cab



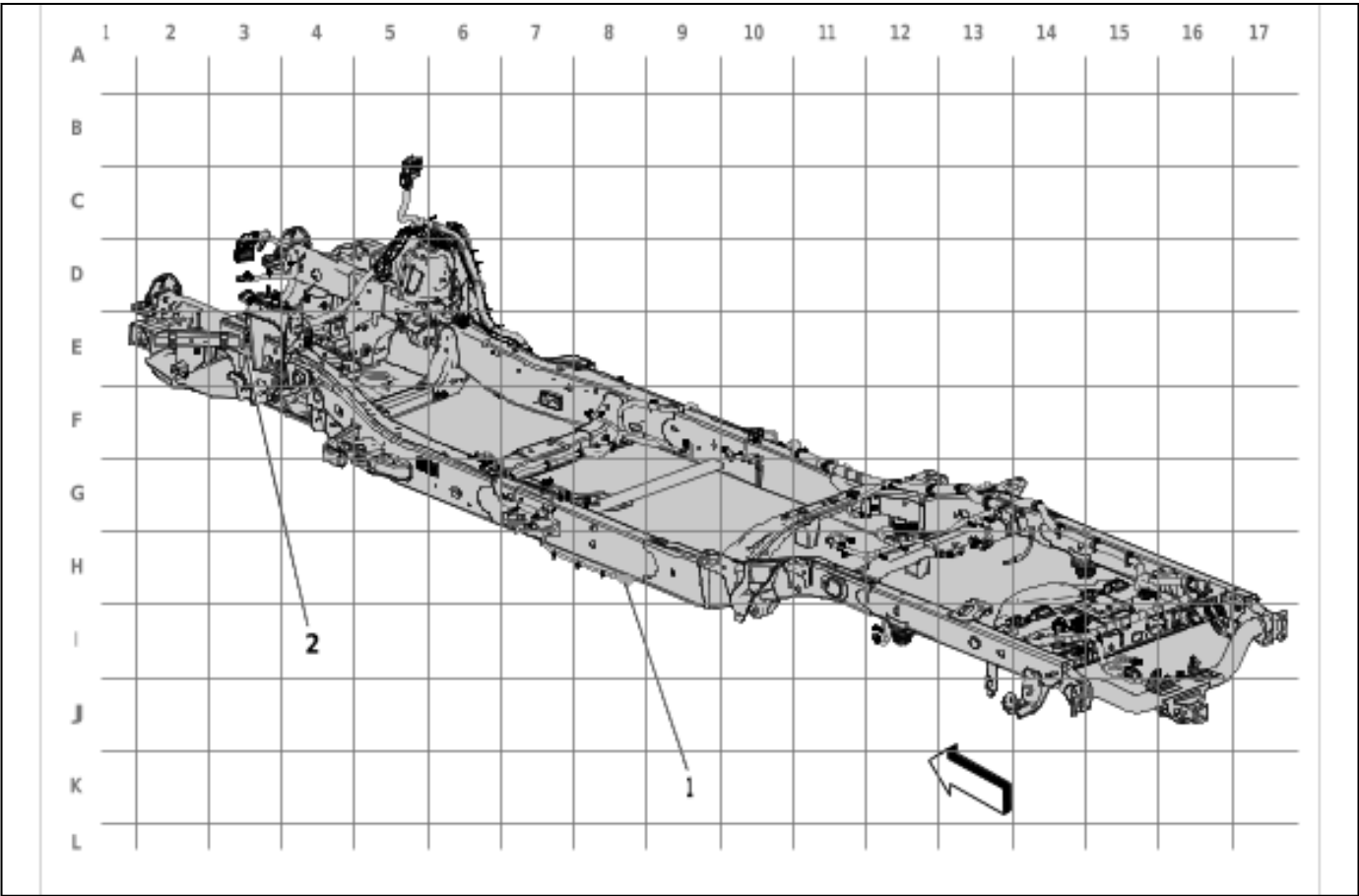
5965534

Items

- (1) J402 Chassis Wiring Harness
- (2) X420A Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness
X420A Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness
- (3) X420B Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness
X420B Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness (- Z45)
X420B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (Z45)
- (4) X400 Body Wiring Harness to Chassis Wiring Harness
X400 Body Wiring Harness to Chassis Wiring Harness - Double Cab / Crew Cab
X400 Body Wiring Harness to Chassis Wiring Harness - Regular Cab
- (5) X410 Chassis Wiring Harness to Body Wiring Harness
X410 Chassis Wiring Harness to Body Wiring Harness
- (6) X403 Chassis Wiring Harness to Power Steering Wiring Harness Extension Harness
X403 Chassis Wiring Harness to Power Steering Wiring Harness Extension Harness - Double Cab / Crew Cab
X403 Chassis Wiring Harness to Power Steering Wiring Harness Extension Harness - Regular Cab
- (7) X424 Body Wiring Harness to Chassis Wiring Harness (FHS)
X424 Body Wiring Harness to Chassis Wiring Harness

- | Items |
|---|
| (8) J135 Chassis Wiring Harness (JL1/Z82-JL1) |
| (9) X402C Body Wiring Harness to Chassis Wiring Harness (UV2) |
| X402C Body Wiring Harness to Chassis Wiring Harness |
| (10) J400 Chassis Wiring Harness |
| (11) J401 Chassis Wiring Harness |
| (12) X414 Chassis Rear Wiring Harness to Chassis Wiring Harness (KC9/KCA) |
| X414 Chassis Rear Wiring Harness to Chassis Wiring Harness |
| (13) X950 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness |
| X950 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness |
| (14) X918 Endgate Wiring Harness to Chassis Wiring Harness |
| X918 Endgate Wiring Harness to Chassis Wiring Harness |
| (15) X919 Endgate Wiring Harness to Chassis Wiring Harness |
| X919 Endgate Wiring Harness to Chassis Wiring Harness |

Vehicle Underbody - Chassis Wiring Harness - Left - Double Cab/Crew Cab

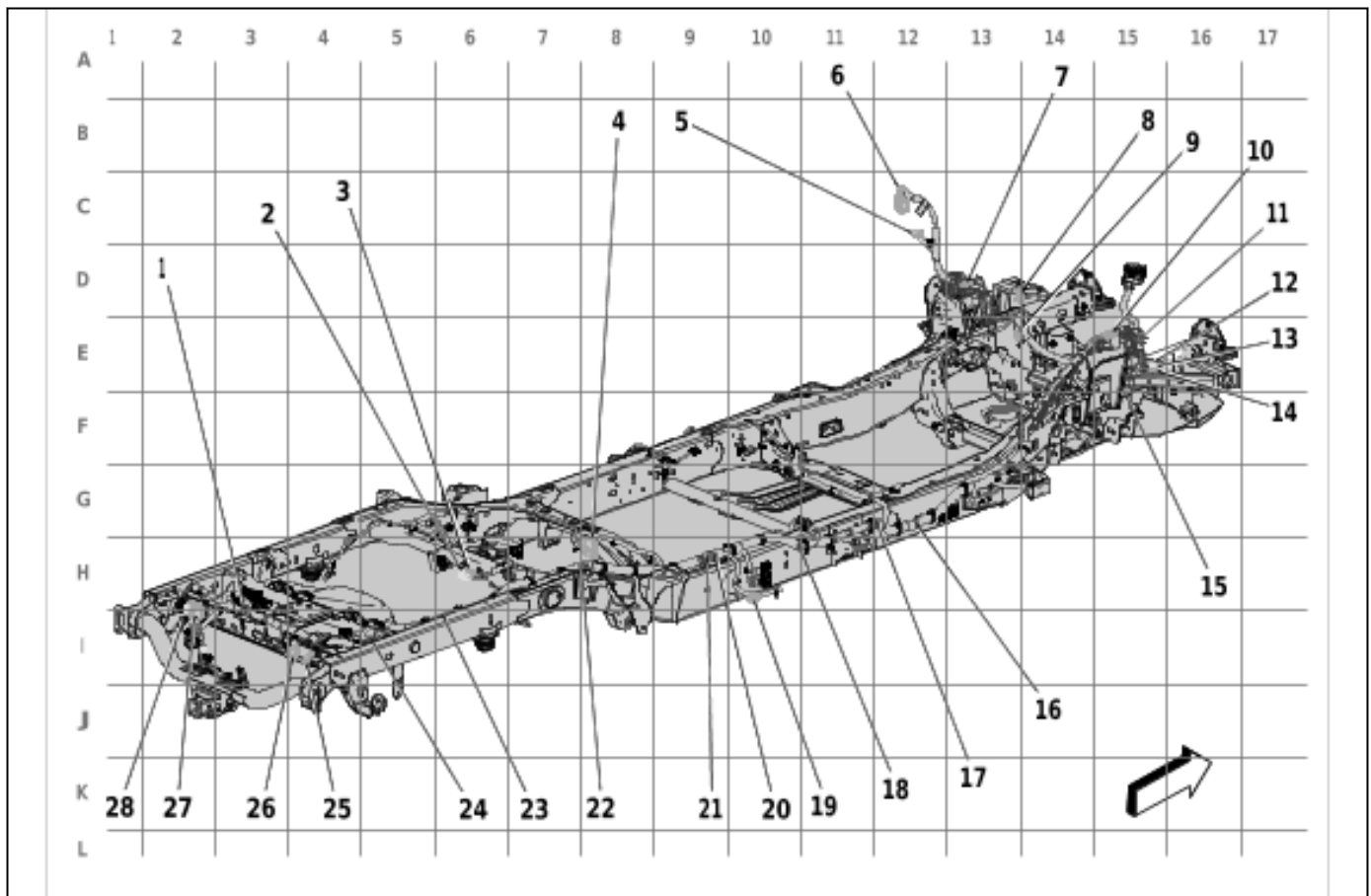


5965536

Items

- (1) X412 Assist Wire Jumper - Left to Chassis Wiring Harness (BRS)
 X412 Assist Wire Jumper - Left to Chassis Wiring Harness (BRS)
- (2) X416A Chassis Wiring Harness to Electronic Suspension Strut Wiring Harness Extension Harness (Z45)
 X416A Chassis Wiring Harness to Electronic Suspension Strut Wiring Harness Extension Harness (Z45)

Vehicle Underbody - Chassis Wiring Harness - Right - Double Cab/Crew Cab



5965537

Items

- (1) J402 Chassis Wiring Harness
- (2) X420A Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness
 X420A Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness
- (3) X420B Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness
 X420B Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness (- Z45)
 X420B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (Z45)
- (4) X404 Emission Reduction Fluid Tank Reservoir Wire Harness to Chassis Wiring Harness (LZ0)
 X404 Chassis Wiring Harness to Emission Reduction Fluid Tank Reservoir Wire Harness

Items

- (5) X400 Body Wiring Harness to Chassis Wiring Harness
X400 Body Wiring Harness to Chassis Wiring Harness -
Double Cab / Crew Cab
X400 Body Wiring Harness to Chassis Wiring Harness -
Regular Cab
- (6) X410 Chassis Wiring Harness to Body Wiring Harness
X410 Chassis Wiring Harness to Body Wiring Harness
- (7) X416C
- (8) X401 Engine Wiring Harness to Chassis Wiring Harness
(LZ0)
X401 Engine Wiring Harness to Chassis Wiring Harness
- (9) X403 Chassis Wiring Harness to Power Steering Wiring
Harness Extension Harness
X403 Chassis Wiring Harness to Power Steering Wiring
Harness Extension Harness - Double Cab / Crew Cab
X403 Chassis Wiring Harness to Power Steering Wiring
Harness Extension Harness - Regular Cab
- (10) X424 Body Wiring Harness to Chassis Wiring Harness
(FHS)
X424 Body Wiring Harness to Chassis Wiring Harness
- (11) J135 Chassis Wiring Harness (JL1/Z82-JL1)
- (12) X402B Body Wiring Harness to Chassis Wiring
Harness (UV2)
X402B Body Wiring Harness to Chassis Wiring Harness
- (13) X402C Body Wiring Harness to Chassis Wiring
Harness (UV2)
X402C Body Wiring Harness to Chassis Wiring Harness
- (14) X402A Body Wiring Harness to Chassis Wiring
Harness (UV2)
X402A Body Wiring Harness to Chassis Wiring Harness
- (15) X416B Chassis Wiring Harness to Electronic
Suspension Strut Wiring Harness Extension Harness (Z45)
X416B Chassis Wiring Harness to Electronic Suspension
Strut Wiring Harness Extension Harness (Z45)
- (16) J320 Chassis Wiring Harness
- (17) J321 Chassis Wiring Harness
- (18) J322 Chassis Wiring Harness
- (19) X413 Assist Step Wire Jumper - Right to Chassis
Wiring Harness (BRS)
X413 Assist Step Wire Jumper - Right to Chassis Wiring
Harness (BRS)
- (20) J323 Chassis Wiring Harness
- (21) J324 Chassis Wiring Harness
- (22) J326 Chassis Wiring Harness
- (23) J400 Chassis Wiring Harness
- (24) J401 Chassis Wiring Harness
- (25) X414 Chassis Rear Wiring Harness to Chassis Wiring
Harness (KC9/KCA)
X414 Chassis Rear Wiring Harness to Chassis Wiring
Harness
- (26) X950 Rear Object Alarm Sensor Wiring Harness to
Chassis Wiring Harness
X950 Rear Object Alarm Sensor Wiring Harness to Chassis
Wiring Harness

Items

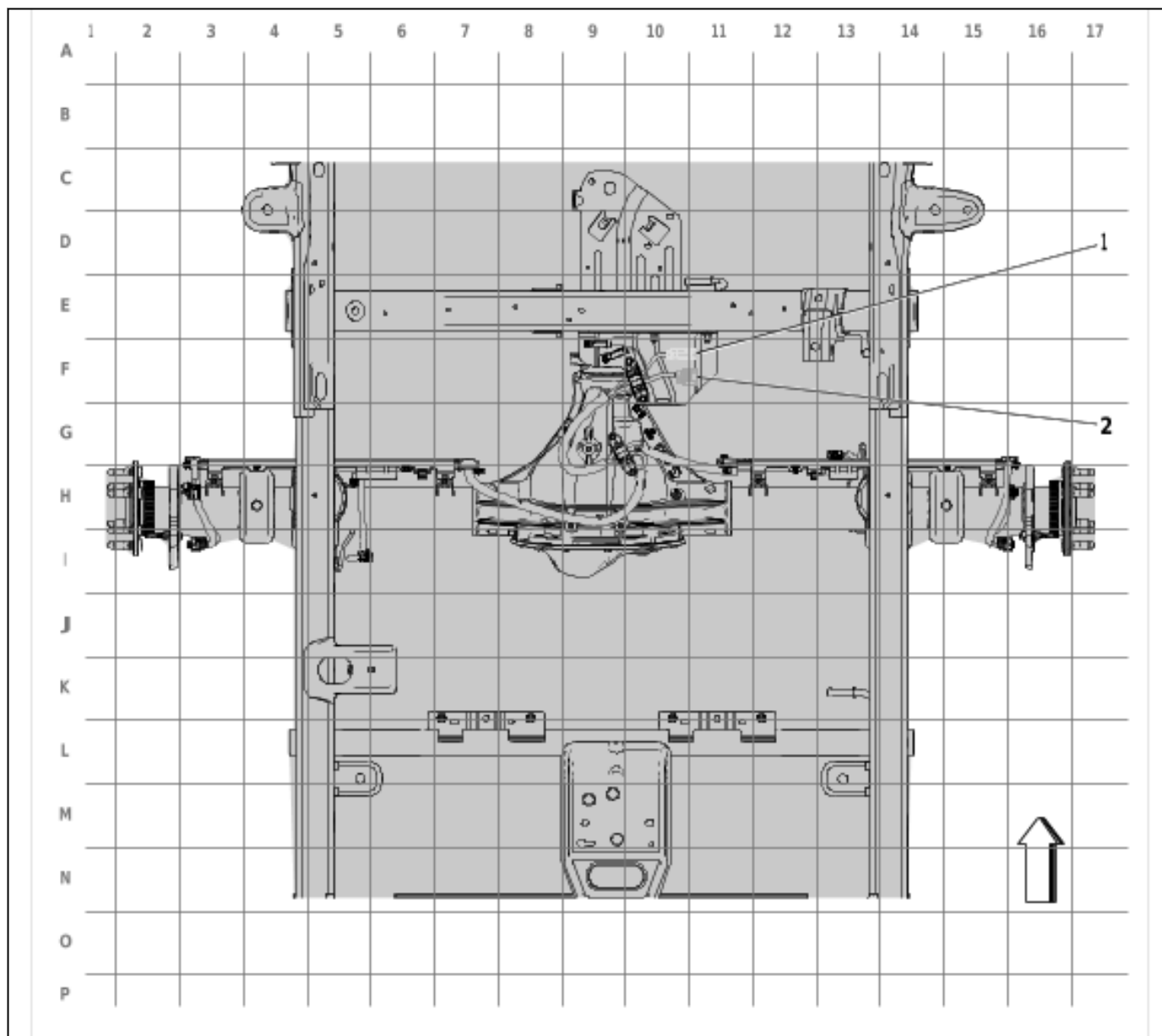
(27) X918 Endgate Wiring Harness to Chassis Wiring Harness

X918 Endgate Wiring Harness to Chassis Wiring Harness

(28) X919 Endgate Wiring Harness to Chassis Wiring Harness

X919 Endgate Wiring Harness to Chassis Wiring Harness

Vehicle Underbody - Chassis Rear Wiring Harness Extension Harness



5965538

- Items
- (1) X420B Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness

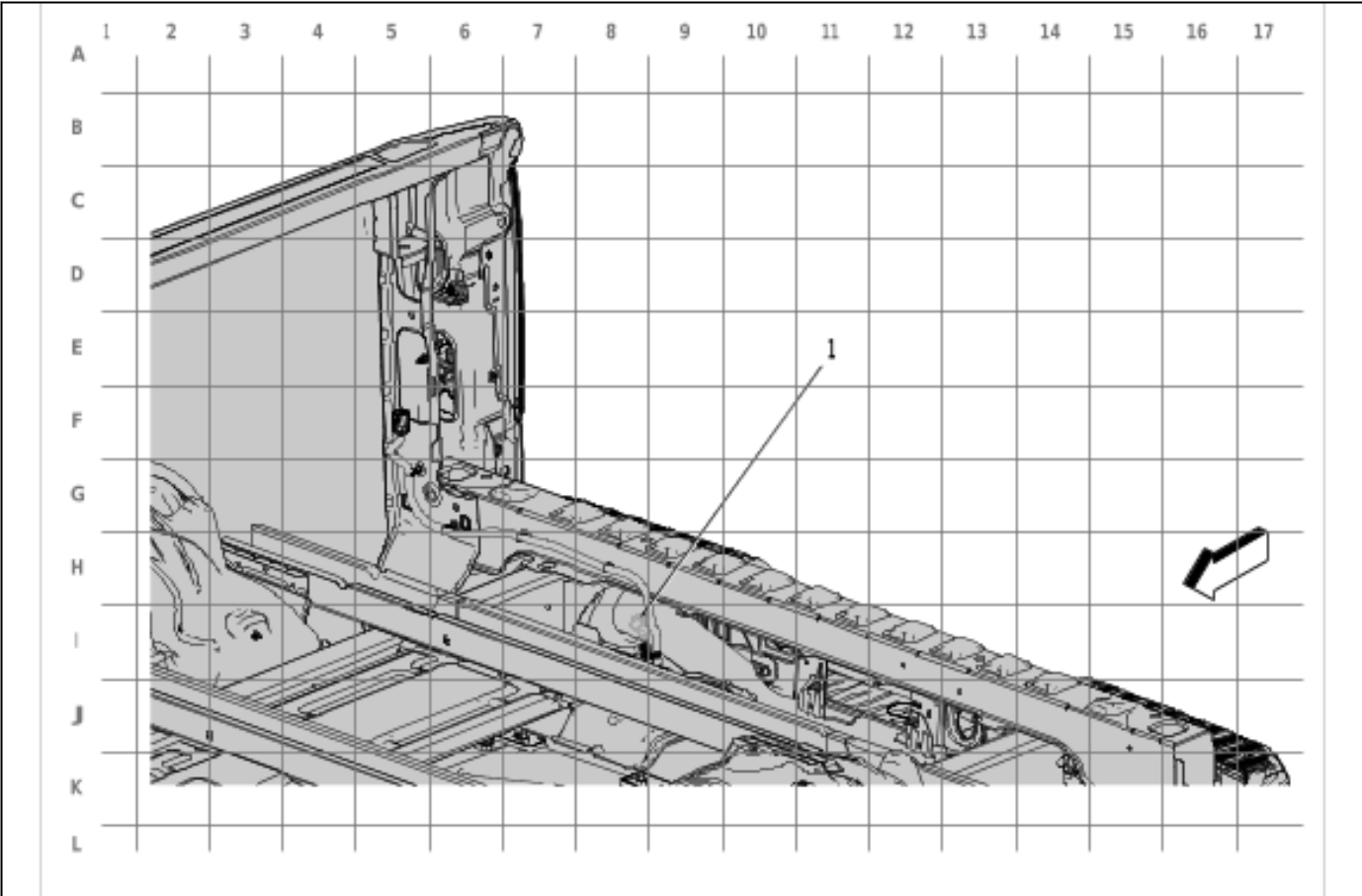
X420B Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness (- Z45)

X420B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (Z45)

(2) X420A Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness

X420A Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness

Rear of Pickup Box - Chassis Rear Wiring Harness

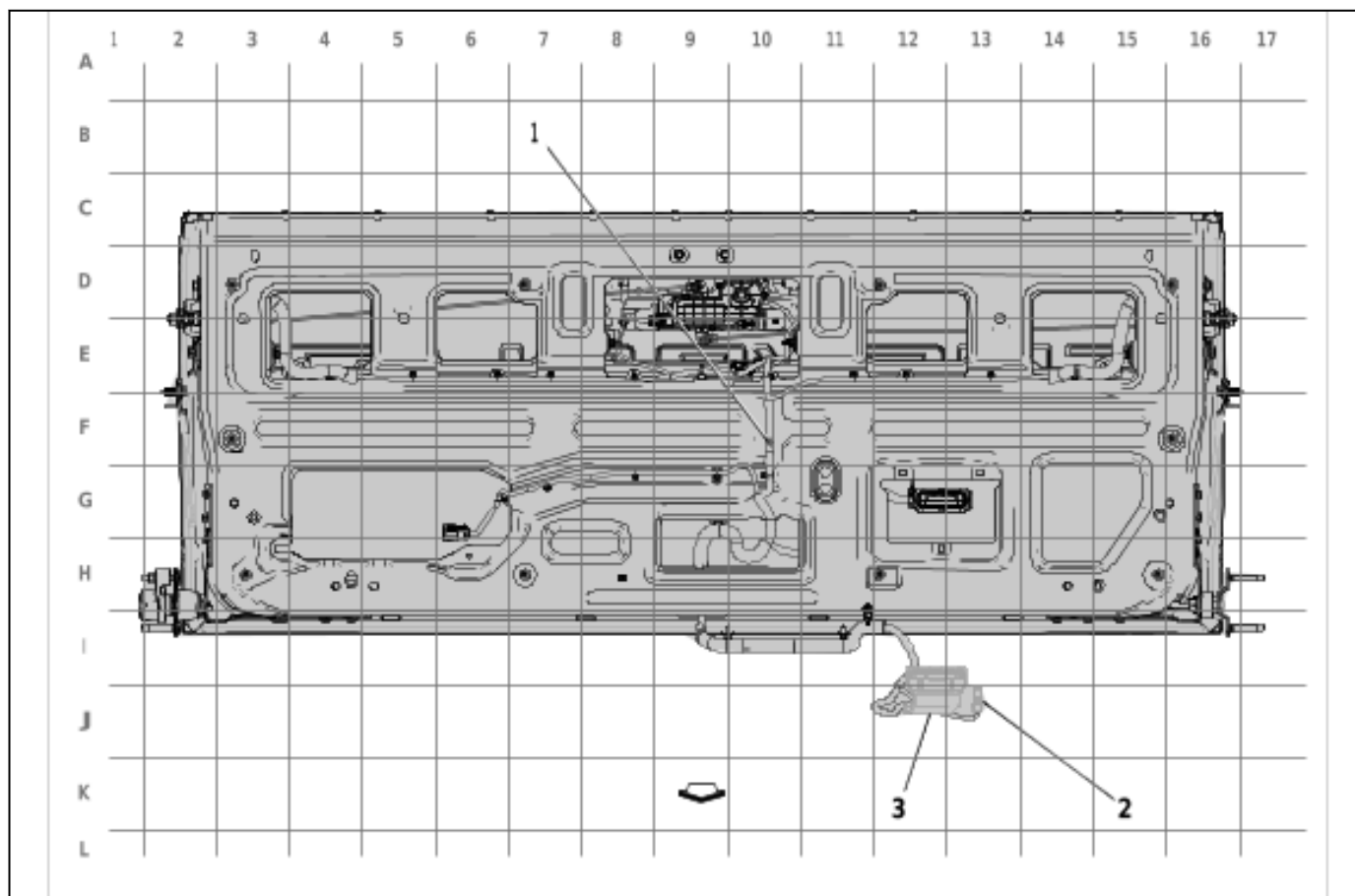


5965539

- Items
- (1) X414 Chassis Rear Wiring Harness to Chassis Wiring Harness (KC9/KCA)

X414 Chassis Rear Wiring Harness to Chassis Wiring Harness

Rear of Vehicle - Endgate Wiring Harness (QK1)

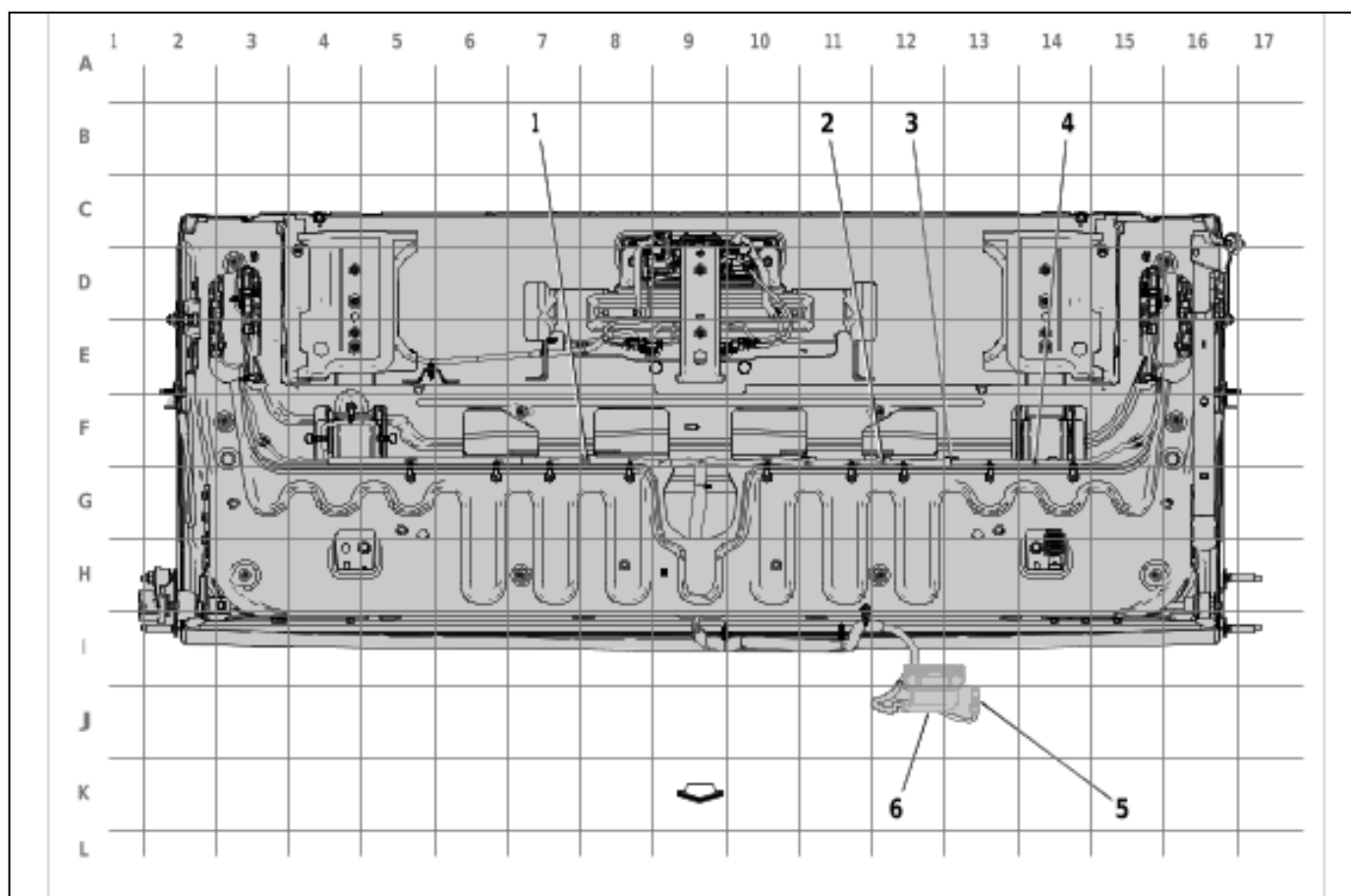


5965541

Items

- | |
|---|
| (1) J913 Endgate Wiring Harness |
| (2) X919 Endgate Wiring Harness to Chassis Wiring Harness |
| X919 Endgate Wiring Harness to Chassis Wiring Harness |
| (3) X918 Endgate Wiring Harness to Chassis Wiring Harness |
| X918 Endgate Wiring Harness to Chassis Wiring Harness |

Rear of Vehicle - Endgate Wiring Harness (QK2)

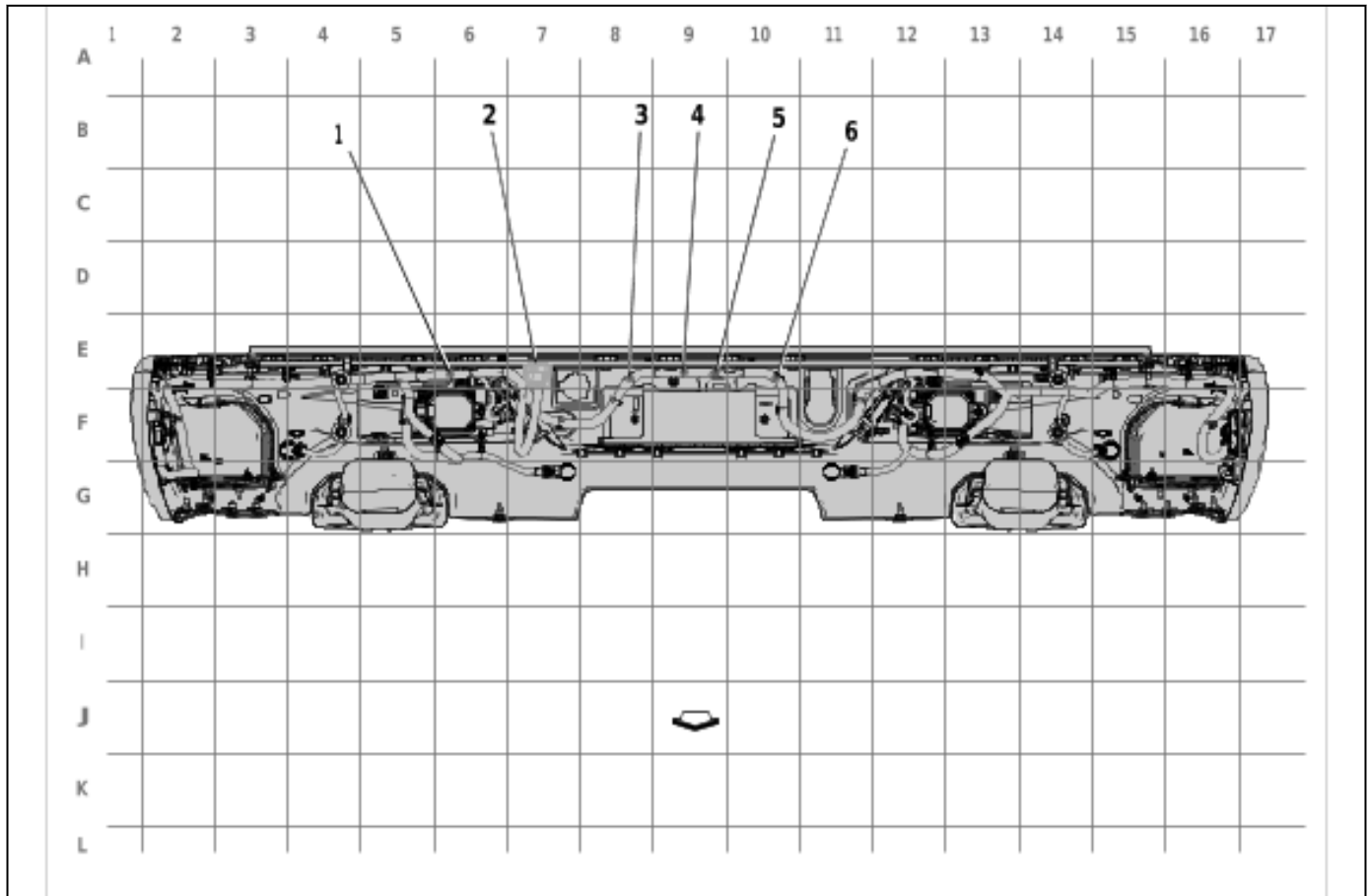


5965542

Items

- | |
|---|
| (1) J913 Endgate Wiring Harness |
| (2) J910 Endgate Wiring Harness (QK2+QT5) |
| (3) J911 Endgate Wiring Harness (QK2+QT5) |
| (4) J912 Endgate Wiring Harness (QK2) |
| (5) X919 Endgate Wiring Harness to Chassis Wiring Harness |
| X919 Endgate Wiring Harness to Chassis Wiring Harness |
| (6) X918 Endgate Wiring Harness to Chassis Wiring Harness |
| X918 Endgate Wiring Harness to Chassis Wiring Harness |

Rear of Vehicle - Rear Object Alarm Sensor Harness (UKL)

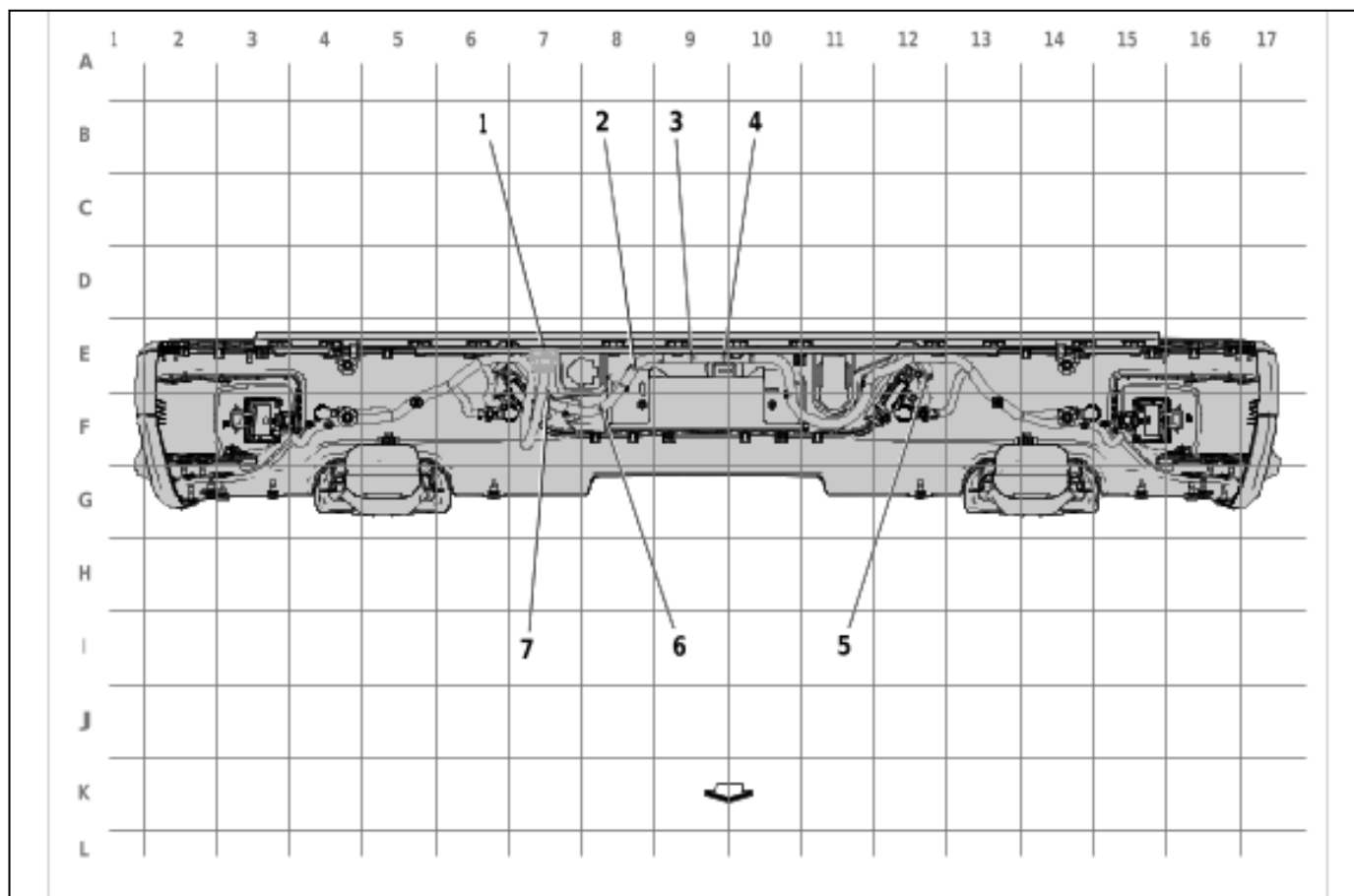


6141580

Items

- | |
|--|
| (1) J905 Rear Object Alarm Sensor Wiring Harness |
| (2) X950 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness |
| X950 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness |
| (3) J904 Rear Object Alarm Sensor Wiring Harness |
| (4) J903 Rear Object Alarm Sensor Wiring Harness |
| (5) J902 Rear Object Alarm Sensor Wiring Harness (UKL) |
| (6) J901 Rear Object Alarm Sensor Wiring Harness |

Rear of Vehicle - Rear Object Alarm Sensor Harness (- UKL)



6141583

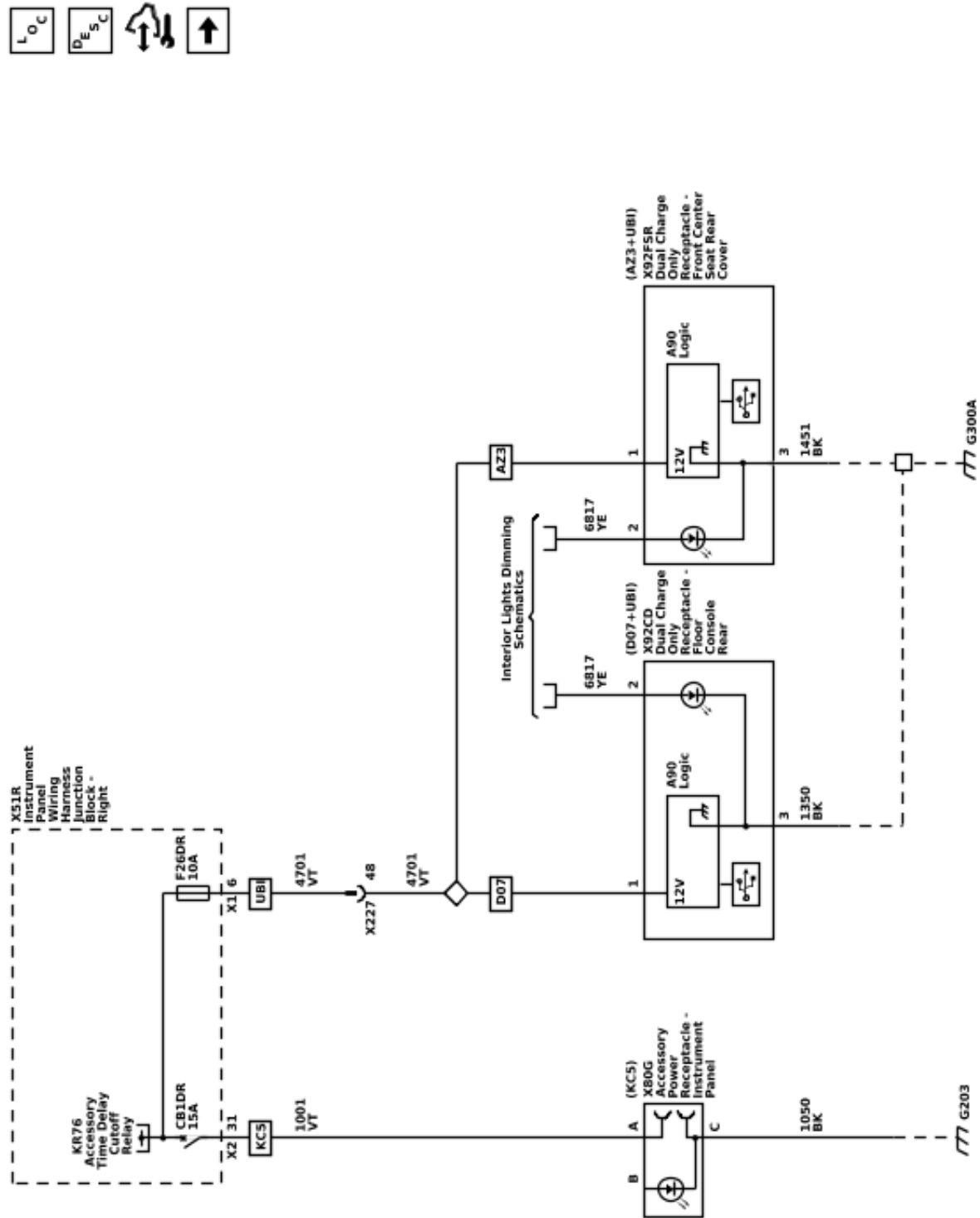
Items

- (1) X950 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness
- X950 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness
- (2) J905 Rear Object Alarm Sensor Wiring Harness
- (3) J903 Rear Object Alarm Sensor Wiring Harness
- (4) J904 Rear Object Alarm Sensor Wiring Harness
- (5) J900 Rear Object Alarm Sensor Wiring Harness
- (6) J901 Rear Object Alarm Sensor Wiring Harness
- (7) J906 Rear Object Alarm Sensor Wiring Harness (without UKL)

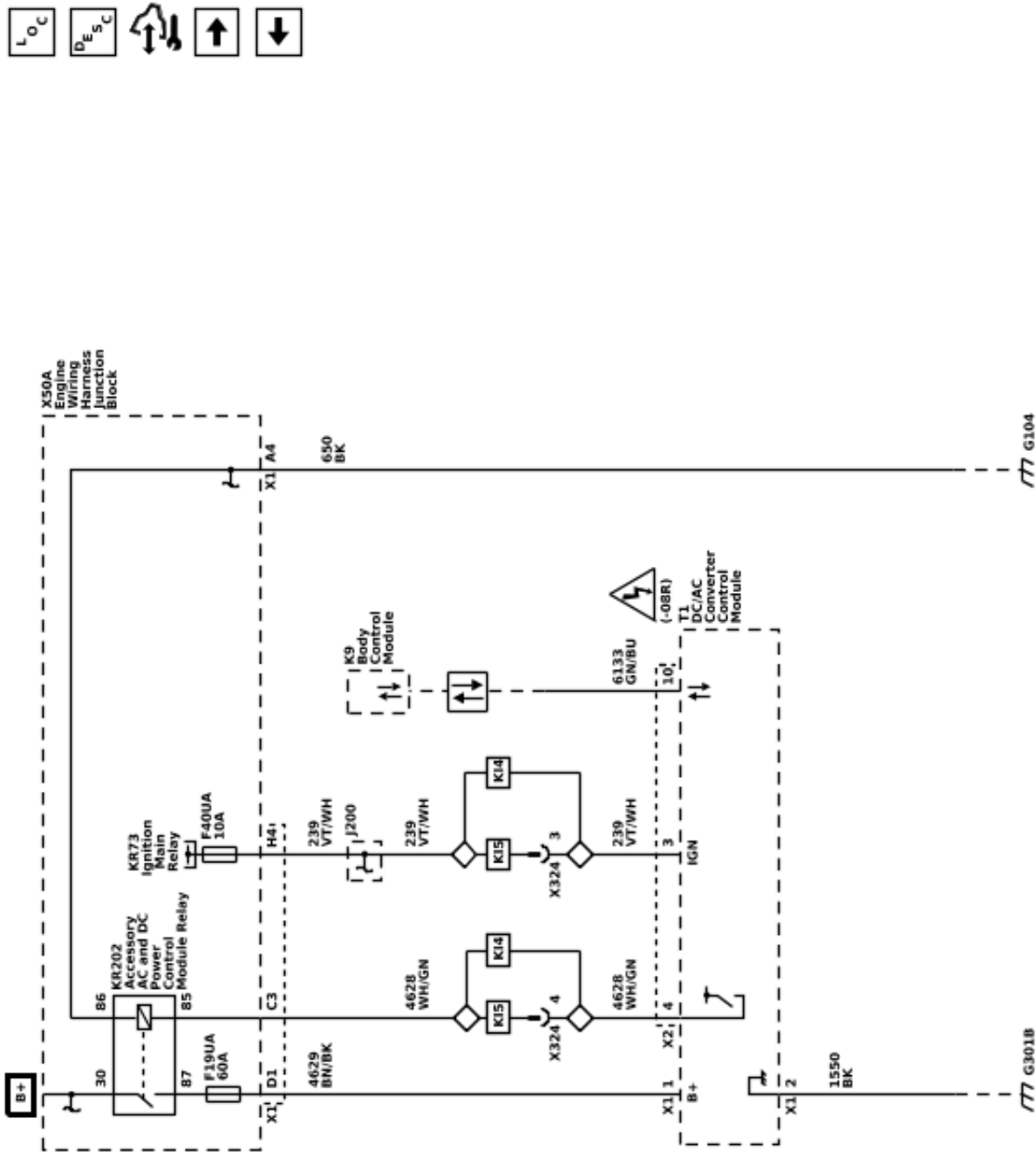
Power Outlets

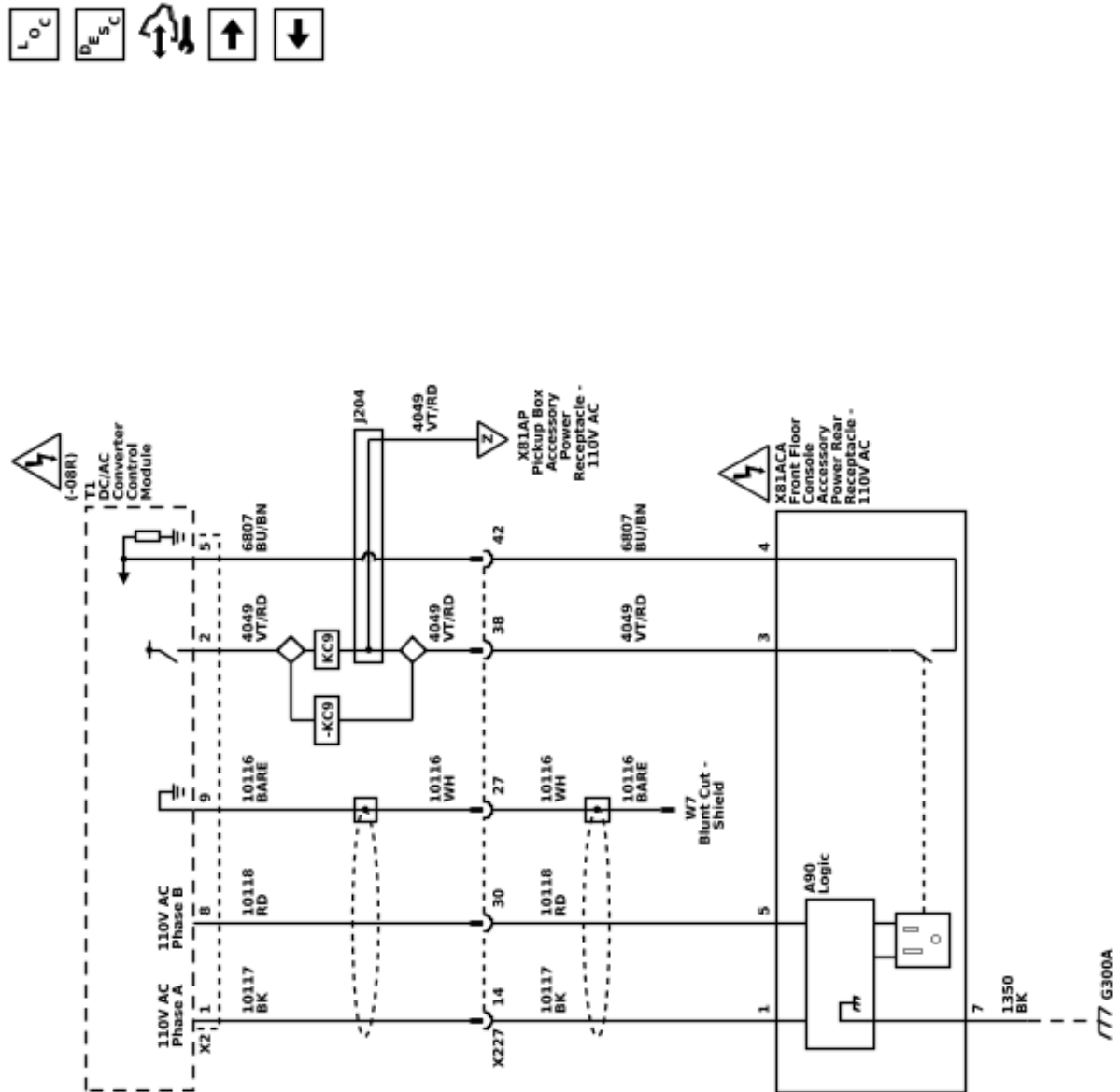
Schematic and Routing Diagrams

Cigar Lighter/Power Outlet Schematics (Power and Charge Receptacles (KC5 / UBI))

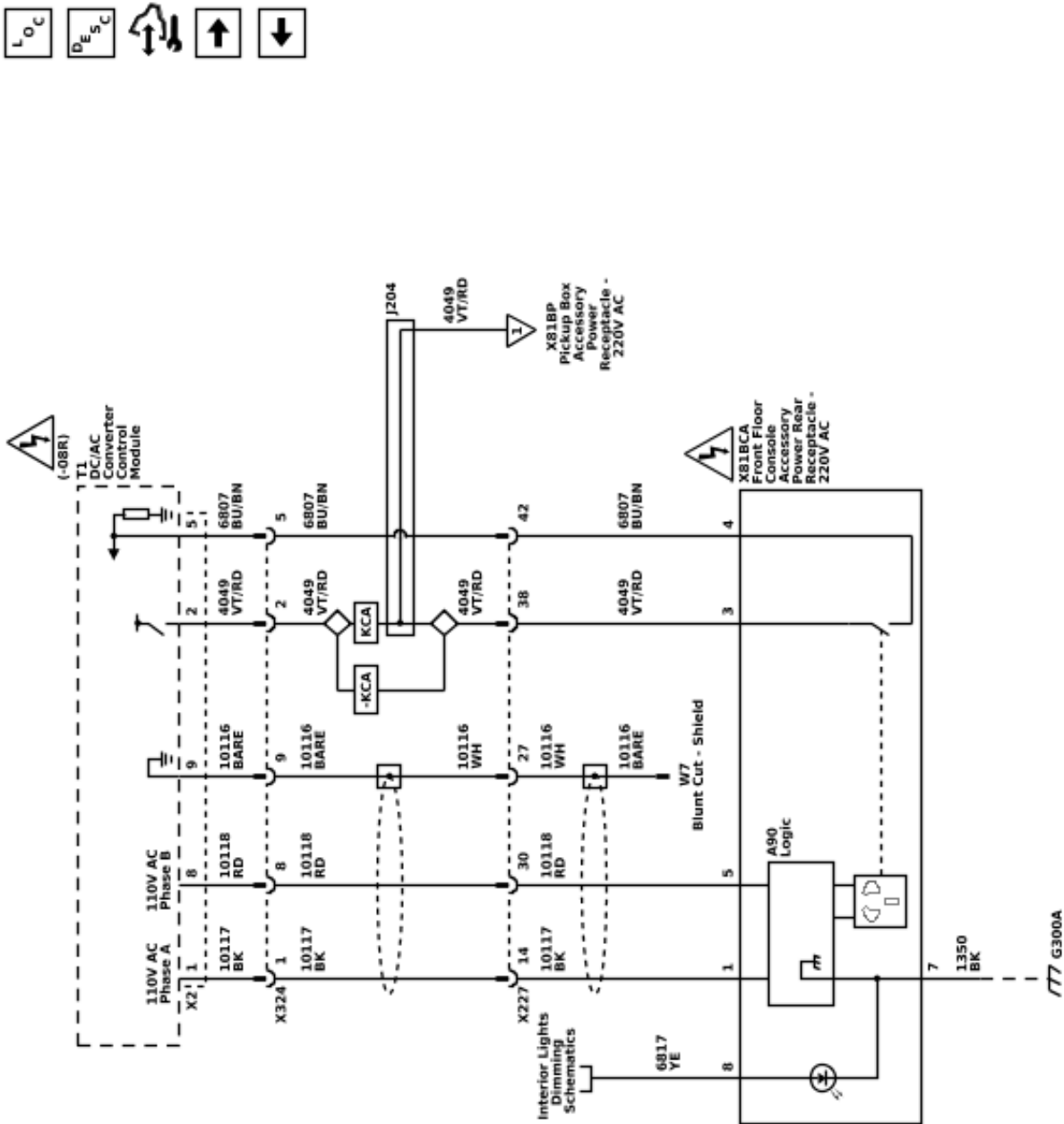


Cigar Lighter/Power Outlet Schematics (Inverter Module Power, Ground, and Serial Data (K14 / K15 / KCA / KC9))



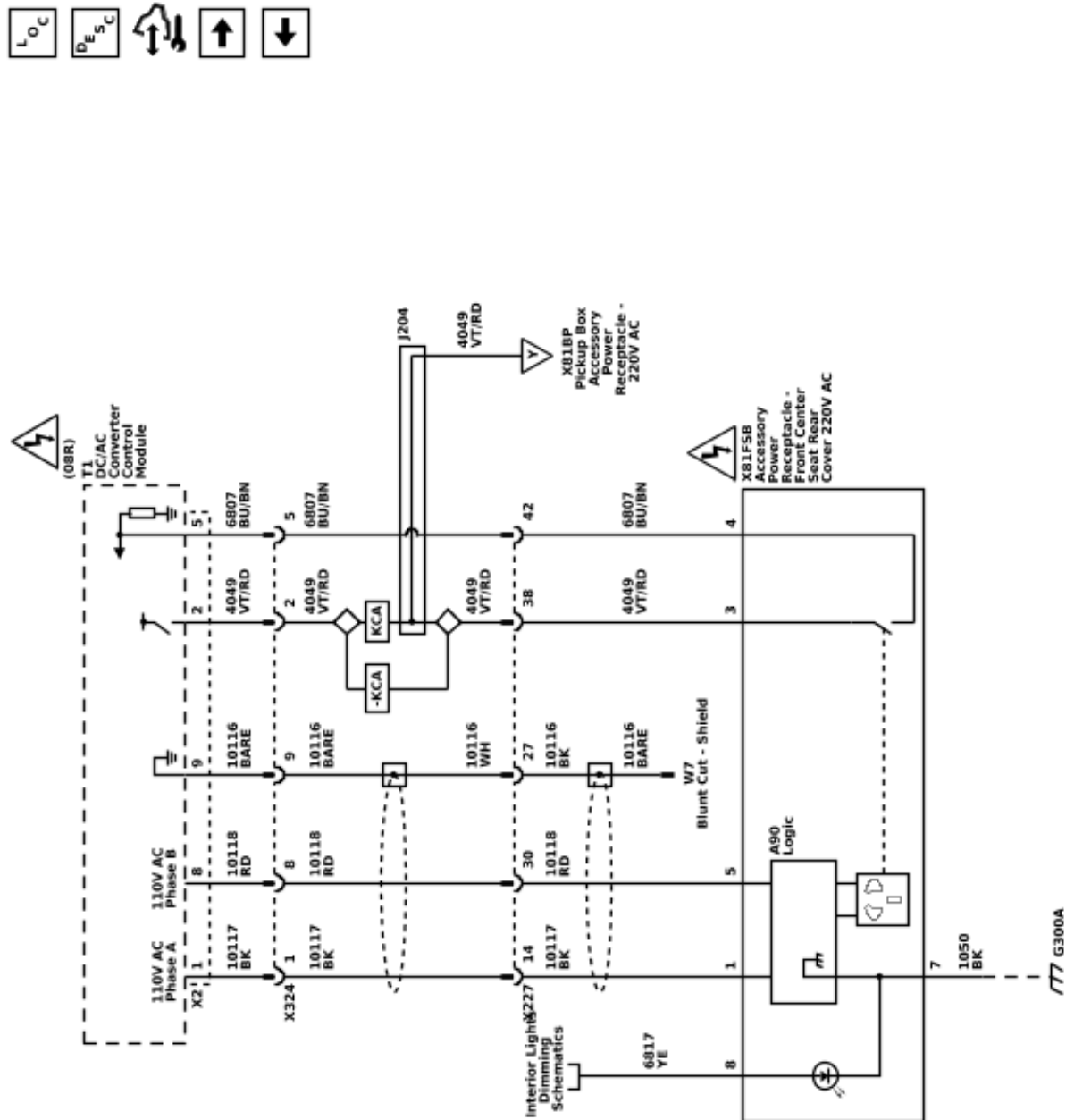


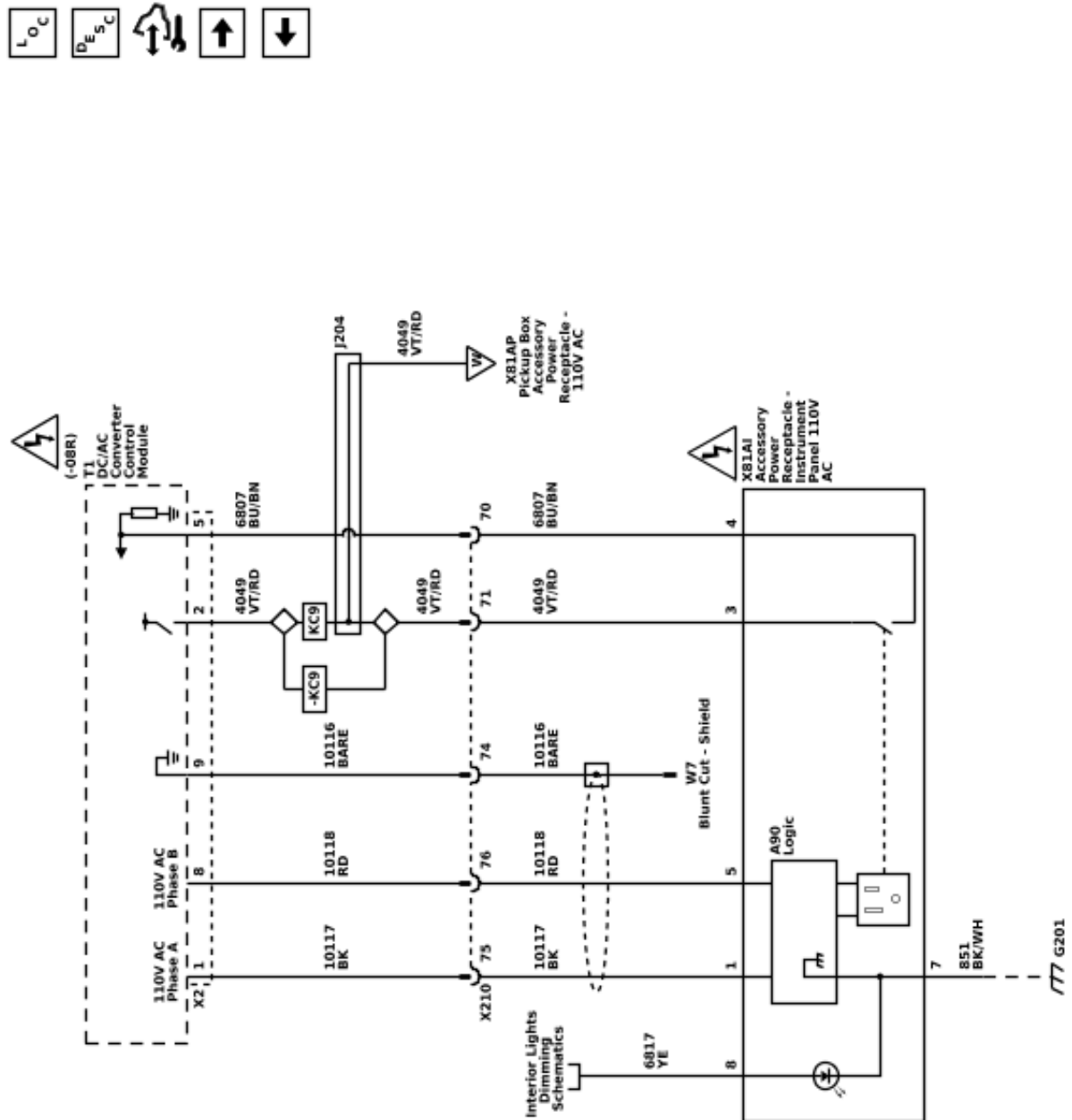
Cigar Lighter/Power Outlet Schematics (220V AC Accessory Power Rear Receptacle - Front Floor Console (KI5 & D07))



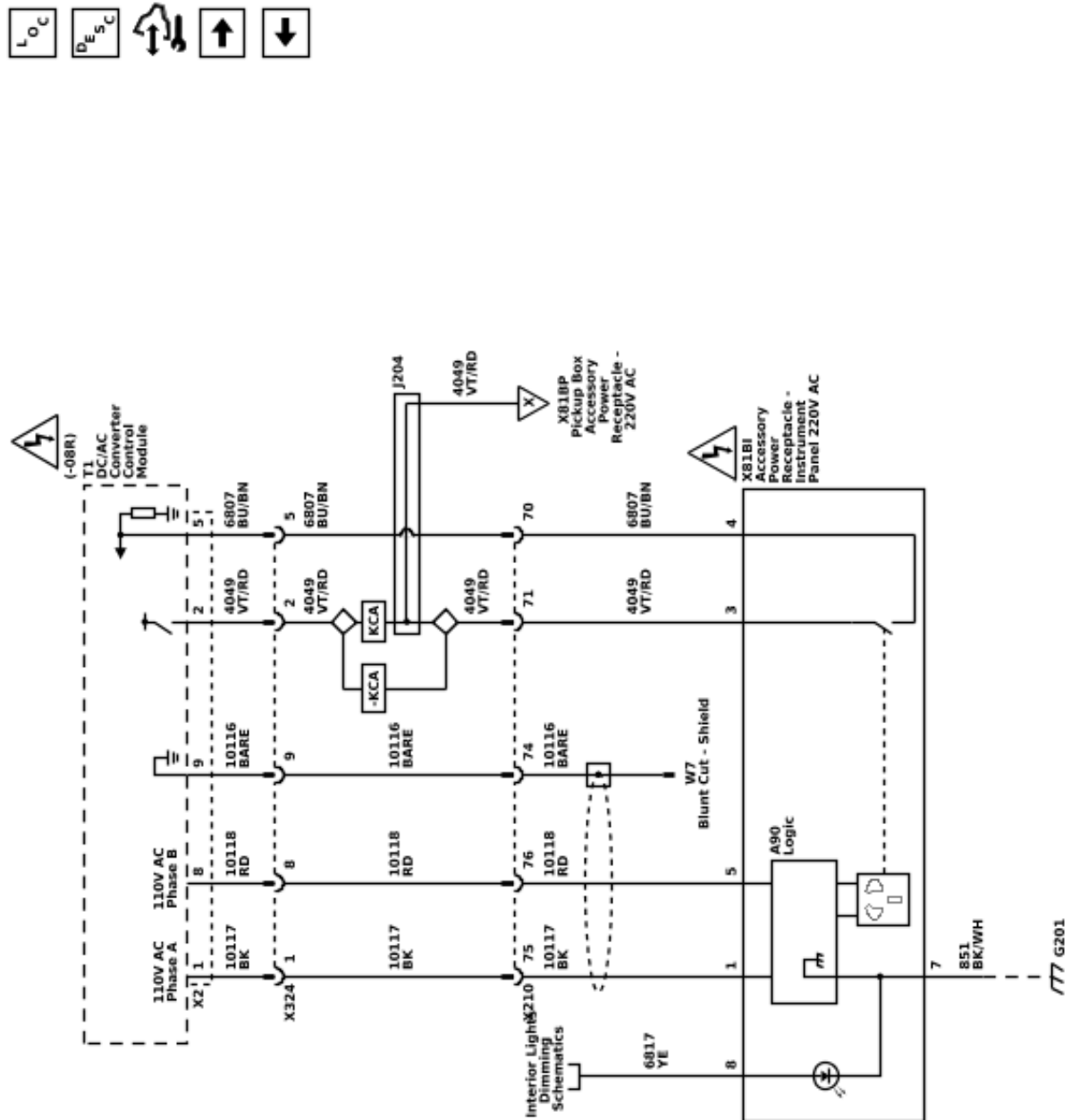


Cigar Lighter/Power Outlet Schematics (220V AC Accessory Power Receptacle - Front Center Seat Rear (K15 & AZ3))

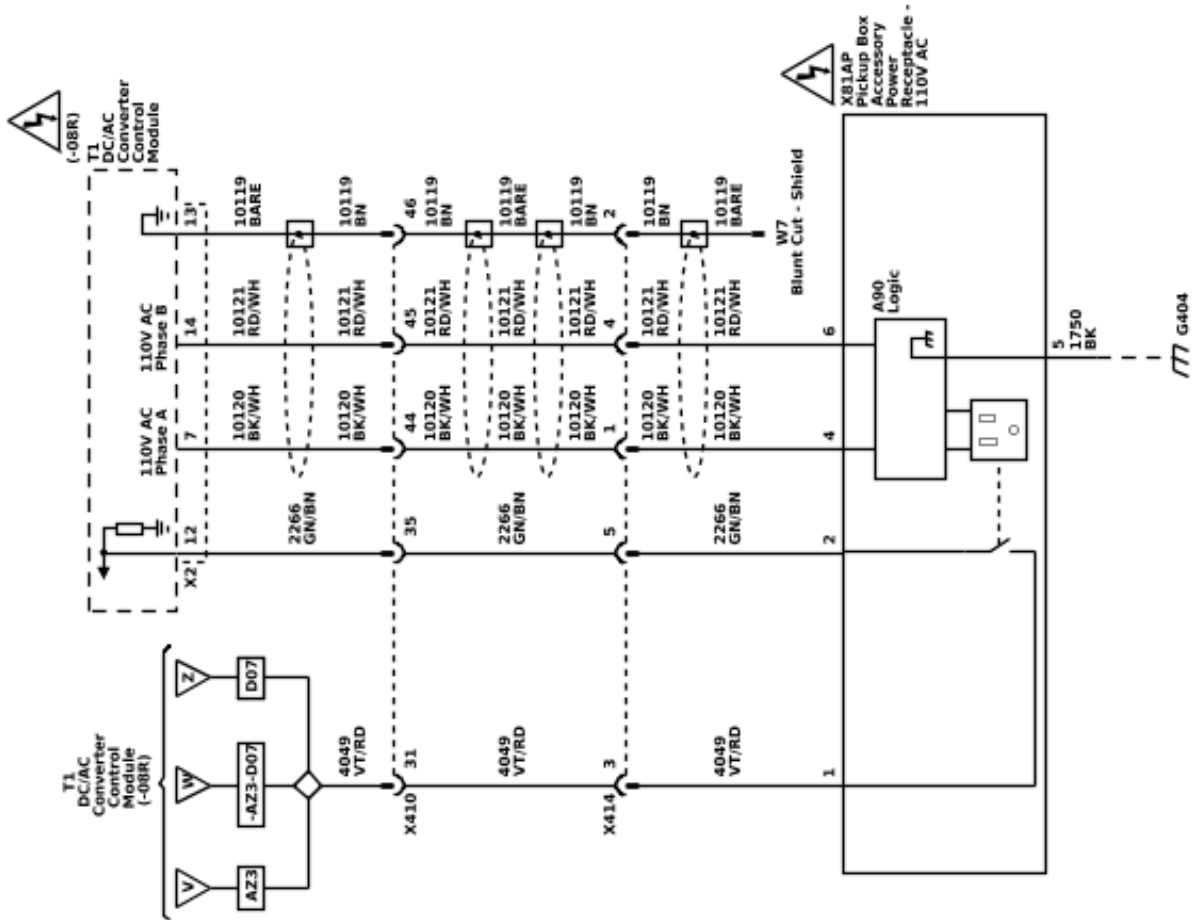




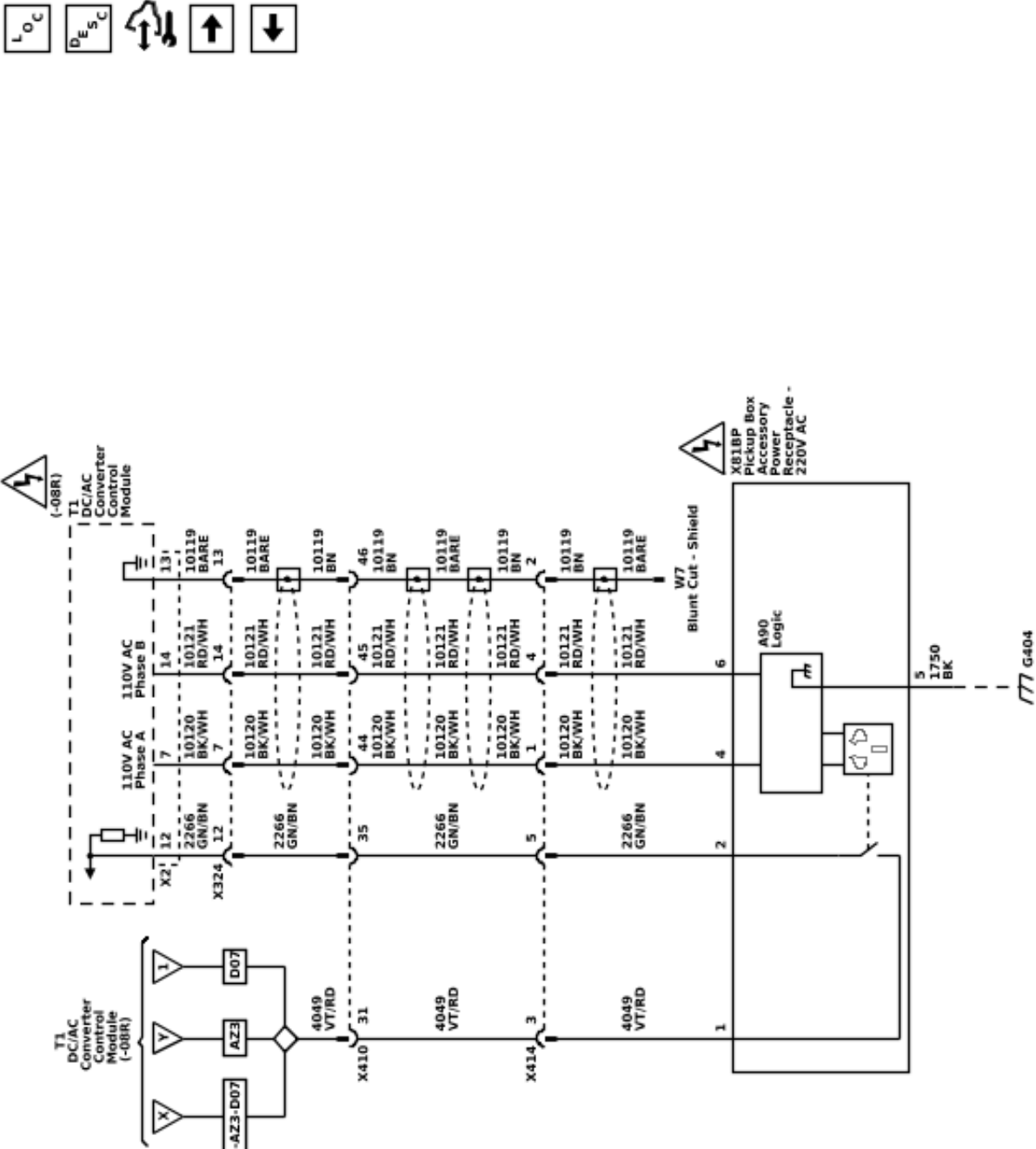
Cigar Lighter/Power Outlet Schematics (220V AC Accessory Power Receptacle - Instrument Panel (KI5 - AZ3 - D07))



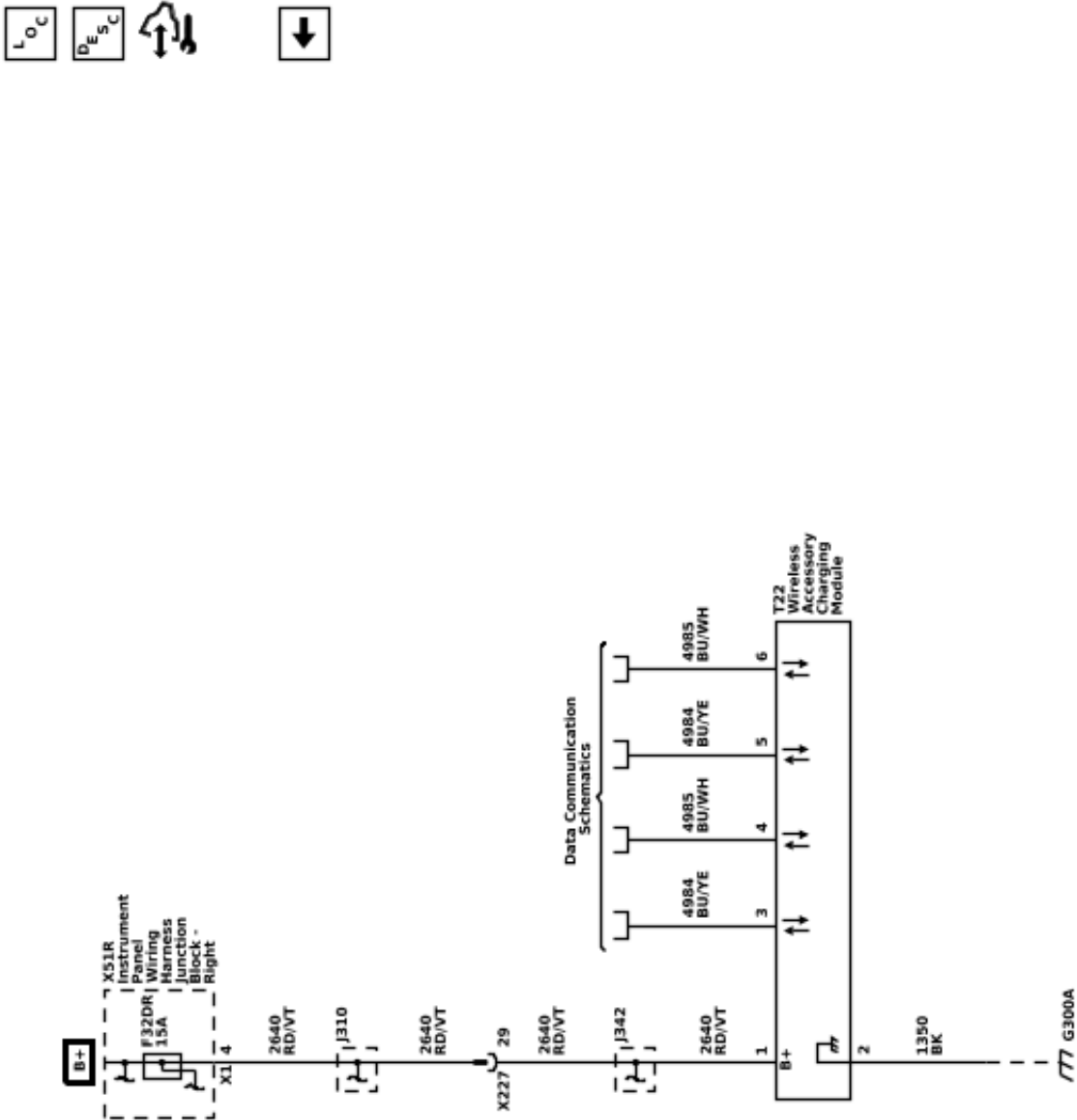
Cigar Lighter/Power Outlet Schematics (110V AC Pickup Box Accessory Power Receptacle (KC9))



Cigar Lighter/Power Outlet Schematics (220V AC Pickup Box Accessory Power Receptacle (KCA))



Cigar Lighter/Power Outlet Schematics (Wireless Charging (K4C))



Description and Operation

Mobile Device Wireless Charger Description and Operation

Mobile Device Wireless Charging System

The Mobile Device Wireless Charging System (WCS) is an system for wirelessly charging mobile devices. It is capable of charging the batteries of compatible mobile devices. A compatible device is one that is compliant with Power Matters Alliance (PMA), Wireless Power Consortium (WPC) Standard, or Alliance for Wireless Power (A4WP), meaning that it is equipped with a PMA, WPC, or A4WP wireless charge “receiver” that will work with the charge “transmitter” installed in the vehicle. The devices may utilize built-in charging circuitry or an adapter (external plug-in device which contains the charging circuitry). To check for phone or other device compatibility, refer to GM Total Connect.

Warning: Remove all objects from the charging pad before charging your mobile device. Objects, such as coins, keys, rings, paper clips, or cards, between the phone and charging pad will become very hot. On the rare occasion that the charging system does not detect an object, and the object gets wedged between the phone and charger, remove the phone and allow the object to cool before removing it from the charging pad, to prevent burns.

Charging

To charge a device, place it on the charging surface in the vehicle. There is a charging coil located in the center of the charging surface. The device has a charging coil typically near the center of the device. These coils must be lined up in order for charging to proceed. When the interruptible retained accessory power (IRAP) relay is closed (this is true typically when vehicle ignition is in Run or Accessory position), the WCS will detect the device, establish communications with the device to confirm it is a compatible device, and then deliver charging power to the device via wireless interface. The WCS will be able to deliver 5W to 15W of power as requested by the compatible device. It shall only enter a charging state if communication is established and a compatible device is identified.

The WCS shall not enter a charging state if there is no communication established with a compatible device. Due to differences in objects, a foreign object detection protocol is employed to detect a non-compliant device and hold power transfer initiation until the non-compliant object has been removed and a compliant object has been detected. The charger monitors its internal temperature and will shut down if the charger temperature exceeds 185F (85C).

Indicator

The K9 Body Control Module will detect the device battery is charging and send a serial data message on the GMLAN bus to the radio display. The radio display will indicate a device is currently charging by displaying a lightning bolt over the phone icon. When the indicator is toggling on and off this indicates a thermal limit has been reached and the device will not charge. For more information refer to the owners manual.

Cooling

The wireless charger is kept cool using the HVAC system. There is a dedicated HVAC duct that connects to the Wireless Charging Module bracket (which holds the module and the mat).

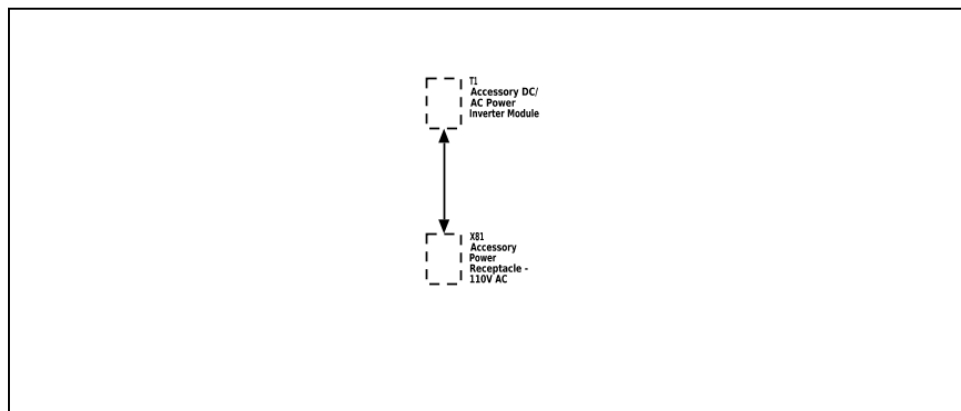
Power Outlets Description and Operation

12 Volt Power Outlet Receptacle Description and Operation

The 12 V accessory power receptacles are supplied with power by the accessory relay.

The vehicle is fitted with a cigarette lighter and/or with a 12 V accessory power receptacle. The cigarette lighter and accessory power outlets are controlled by an

Power Outlets Block Diagram



The alternating current (AC) accessory power outlet system consists of the accessory DC/AC power inverter module and the accessory power receptacle – 110 V AC. The accessory DC/AC power inverter module converts 12 V direct current (DC) battery power to 110 V at 60 Hertz (Hz) AC power to operate AC powered devices. The accessory DC/AC power inverter module provides up to 150 watts of power. The accessory power receptacle – 110 V AC provides the usual connection for AC powered devices.

110 Volt Power Outlet Receptacle System Operation

The accessory DC/AC power inverter module receives fuse protected battery voltage and is connected to the 12 V electrical system ground. The accessory power receptacle – 110 V AC has an internal switch, that detects when an AC powered device is plugged into the outlet. When the ignition is ON, and an AC powered device is plugged into the accessory power receptacle – 110 V AC, the normally open switch in the accessory power receptacle – 110 V AC, closes. When the accessory DC/AC power inverter module detects the voltage from the accessory power receptacle – 110 V AC switch, the inverter module begins to supply 110 V AC to the accessory power receptacle – 110 V AC after a 1.5 s delay. The accessory AC power system is protected against circuit overload and circuit shorts to ground.

ignition operated relay. The accessory power receptacle and cigarette lighter are operational when the ignition is turned to either the On or the Accessories positions. To operate the cigarette lighter, press in the lighter knob. When the element is hot, the lighter automatically pops out and is ready for use.

110 Volt Power Outlet Receptacle System Description

110 Volt Power Outlet Receptacle Isolation Fault Protection

The accessory DC/AC power inverter module contains a ground fault circuit interrupter (GFCI). GFCI monitors the 110 V circuit for a short to vehicle chassis ground. If a 110 V AC short to ground is detected, the accessory DC/AC power inverter module will turn OFF. The module remains OFF, until the AC powered device is unplugged from the outlet, and then plugged into the outlet after a 3 s delay.

110 Volt Power Outlet Receptacle Overload Shutdown

The accessory DC/AC power inverter module will turn OFF if the current in the 110 V circuit is greater than 3.8 A for 1 s , or 2.5 A for 10 s . The module will turn ON again, when the AC powered device is unplugged from the outlet, and then plugged into the outlet after a 3 s delay.

110 Volt Power Outlet Receptacle Internal Shutdown

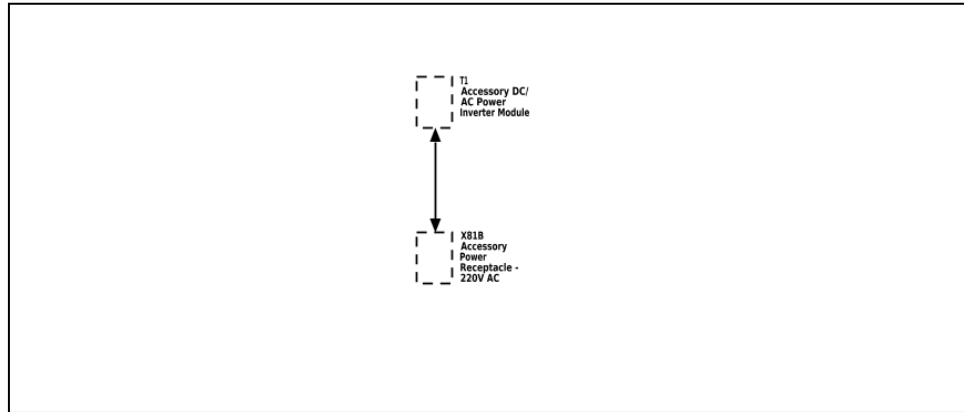
The accessory DC/AC power inverter module will turn OFF if the B+ supply voltage is greater than 16.5 V or less than 11 V. The module will also turn OFF if the device temperature is greater than 85°C (185°F). The module will turn ON again, after the shutdown condition is corrected, and the AC powered device is unplugged from the outlet, and then plugged into the outlet.

3403851

230 Volt Power Outlet Receptacle System

Description

Power Outlets Block Diagram



3403853

The alternating current (AC) accessory power outlet system consists of the accessory DC/AC power inverter module and the accessory power receptacle – 220V AC. The accessory DC/AC power inverter module converts 12 V direct current (DC) battery power to 220–230 V at 50 Hertz (Hz) AC power to operate AC powered devices. The accessory DC/AC power inverter module provides up to 150 watts of power. The accessory power receptacle – 220V AC provides the usual connection for AC powered devices.

230 Volt Power Outlet Receptacle System Operation

The accessory DC/AC power inverter module receives fuse protected battery voltage and is connected to the 12 V electrical system ground. The accessory power receptacle – 220V AC has an internal switch, that detects when an AC powered device is plugged into the outlet. When the ignition is ON, and an AC powered device is plugged into the accessory power receptacle – 220V AC, the normally open switch in the accessory power receptacle – 220V AC, closes. When the accessory DC/AC power inverter module detects the voltage from the accessory power receptacle – 220V AC switch, the inverter module begins to supply 220–230 V AC to the accessory power receptacle – 220V AC after a 1.5 second delay. The accessory AC power system is protected against circuit overload and circuit shorts to ground.

230 Volt Power Outlet Receptacle Isolation Fault Protection

The accessory DC/AC power inverter module contains a ground fault circuit interrupter (GFCI). GFCI monitors the 230 V circuit for a short to vehicle chassis ground. If a 230 V AC short to ground is detected, the accessory DC/AC power inverter module will turn OFF. The module remains OFF, until the AC powered device is unplugged from the outlet, and then plugged into the outlet after a 3 s delay.

230 Volt Power Outlet Receptacle Overload Shutdown

The accessory AC/DC power control module will turn OFF if the current in the 230 V circuit is greater than 3.8 A for 1 second, or 2.5 A for 10 seconds. The module will turn ON again, when the AC powered device is unplugged from the outlet, and then plugged into the outlet after a 3 second delay.

230 Volt Power Outlet Receptacle Internal Shutdown

The accessory DC/AC power inverter module will turn OFF if the B+ supply voltage is greater than 16.5 V or less than 11 V. The module will also turn OFF if the device temperature is greater than 85°C (185°F). The module will turn ON again, after the shutdown condition is corrected, and the AC powered device is unplugged from the accessory power receptacle – 220V AC, and then plugged into the accessory power receptacle – 220V AC.

USB Receptacle Description and Operation (USS)

The vehicle is fitted with USB charge port receptacles at the rear of the floor console. These USB receptacles are for charging devices only. The USB receptacles are controlled by an ignition operated relay and are operational when the ignition is turned to either the On or the Accessories positions.

Section 7

Safety and Security

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Safety and Security

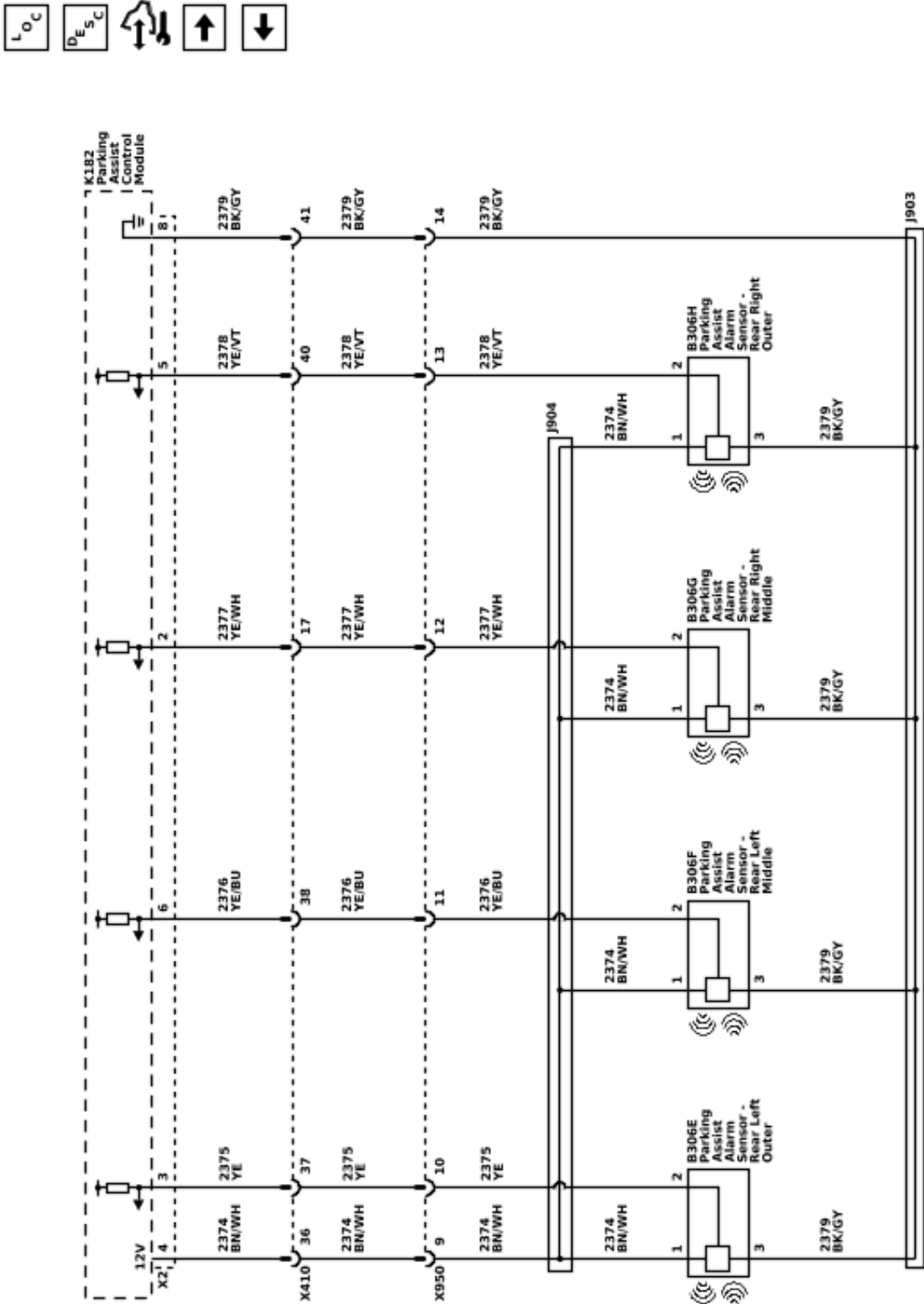
Parking Assistance Systems

Schematic and Routing Diagrams

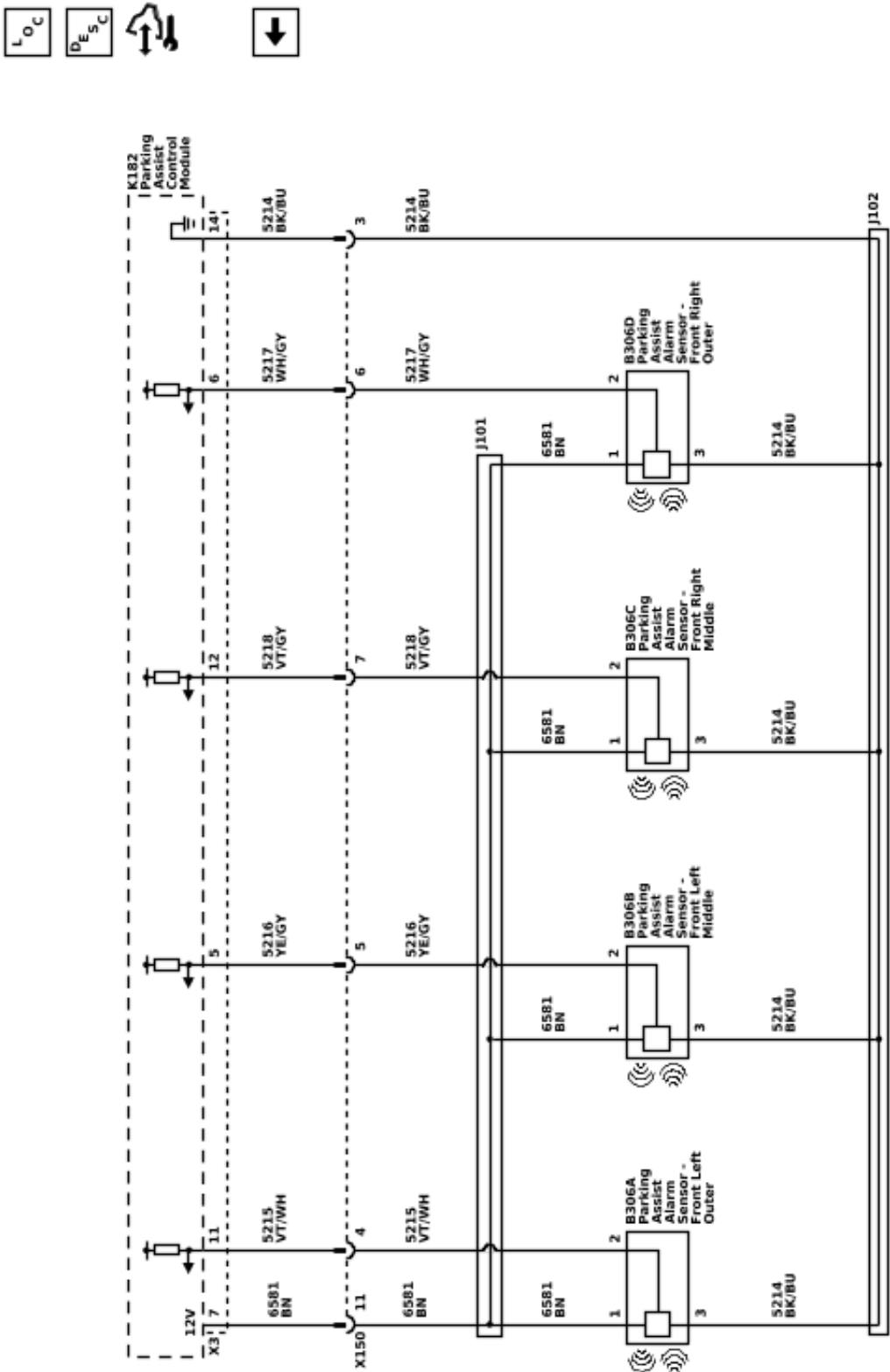
LOC DESC



Parking Assistance Systems Schematics (Park Assist - Rear Sensors (UD5 / UD7))



Parking Assistance Systems Schematics (Park Assist - Front Sensors (UD5))



Description and Operation

Parking Assist Description and Operation (UD5)

The parking assist system can help drivers avoid certain objects in their path during low-speed parking. The distance and location of the object is determined by four object sensors located in the rear fascia. The parking assist system may not detect all children, pedestrians, bicyclists, animals or objects below the bumper. Drivers should remember to always check the area around the vehicle before shifting into REVERSE. The parking assist system will not stop or slow down a vehicle. It does not engage a vehicle's throttle or braking. No safety system can take the place of an alert and engaged driver.

The parking assist system is made up of the following components:

- K182 Parking Assist Control Module
- B306 Parking Assist Alarm Sensors
- Infotainment system

K182 Parking Assist Control Module

The K182 Parking Assist Control Module provides a reference voltage and a low reference to the B166/B306 Parking Assist Alarm Sensors. The K182 Parking Assist Control Module receives individual signals from each of the four B166/B306 Parking Assist Alarm Sensors and determines the location and distance of an object based on these inputs. When an object is detected, the K182 Parking Assist Control Module will send a serial data message to the infotainment system requesting an audible alert.

B166/B306 Parking Assist Alarm Sensors

The B166/B306 Parking Assist Alarm Sensors are located in the rear fascia of the vehicle. The sensors are used to determine the distance between an object and the bumper. Each sensor emits an ultrasonic frequency which is reflected off any object located behind the vehicle. These reflections are received by the sensors. The time difference between the emission of the frequency and when the reflection is received is known as sensor echo time; it is used to determine the distance to the object. The sensors report this information to the K182 Parking Assist Control Module.

Infotainment System

The infotainment system controls the audible alert for the parking assist system. If an object is detected the infotainment system will command beeps as an audible alert to the driver.

Rear Parking Assist Operation

The rear parking assist system uses four B166/B306 Parking Assist Alarm Sensors located on the rear fascia and functions when the transmission is in REVERSE. When a driver is backing up at a low speed, up to about 11 km/h (7 mph), the B166/B306 Parking Assist Alarm Sensors may detect objects up to 1.8 m (6 ft) behind the vehicle. When an object is within the measuring range of the B166/B306 Parking Assist Alarm Sensors, the ultrasonic pulse is reflected and is received by the sending or a neighboring sensor. The sensor converts this signal into a voltage signal and sends this signal to the K182 Parking Assist Control Module. The K182 Parking Assist Control Module evaluates the received sensor signals.

When an object is within 0.6 m (2 ft) of the rear bumper, 5 repeating low-pitched beeps are played from the rear speakers, followed by a continuous tone. If the vehicle is equipped with the Safety Alert Seat (HS1), it will pulse 5 times on both sides.

Some vehicles may have a park assist display on the P16 Instrument Panel Cluster Module with bars that show "distance to object," driving direction, and object location information for the parking assist system. As the vehicle gets closer to the detected object, distance-to-object information and caution triangles may be displayed that changes from yellow to amber to red.

The parking assist system can be turned on and off using the parking assist switch.

The K182 Parking Assist Control Module carries out a self test and monitors the sensors for electrical and mechanical faults. Monitored is the power supply of each sensor and the sensor signals. Mud, ice and snow may cause obstruction of the function of the sensors. The K182 Parking Assist Control Module also determines if the correct type of sensor is installed. If any of these tests fails, a DTC with corresponding symptom is set and the parking assist system is deactivated.

Parking Assist System Messages

SERVICE PARKING ASSIST or SERVICE DRIVER ASSIST

The driver information center displays SERVICE PARKING ASSIST or SERVICE DRIVER ASSIST when the K182 Parking Assist Control Module detects a malfunction in the parking assist system and the system is disabled.

PARK ASSIST OFF

The PARK ASSIST OFF message is displayed in the driver information center when the parking assist system is disabled due to conditions that disable or inhibit the system. The K182 Parking Assist Control Module requests the driver information center display PARK ASSIST OFF when it detects such a condition.

Parking Assist System Operational Checks

The scan tool Parking Assist Disable History 1–8 data can be used to diagnose a malfunction within the parking assist system or an intermittent concern. The following is a brief description of potential causes which may aid in diagnosis. For each potential issue, perform an appropriate inspect of the component or system and refer to the specific service information subsection related to that system for further diagnosis:

- **Disable by Switch** – The parking assist system has been disabled through the parking assist switch.
- **Disabled by Customization Menu** – The parking assist system has been disabled through the vehicle personalization menu.
- **Vehicle Speed Too High** – The vehicle is travelling too fast in reverse at speeds of greater than 8 km/h (5 mph).
- **Vehicle Speed Invalid** – The vehicle is unable to determine the vehicle speed.
- **Steering Angle Signal Invalid** – The vehicle is unable to determine the steering angle.
- **Front Attached Object Detected** – An object has been determined to be attached to the front of the vehicle. Common items such as a brush guards, light bars, and license plates may cause this concern. Additionally, damage to the front of the vehicle or a misaligned sensor may cause this concern. If the vehicle is damaged in a manner that causes the sensor to detect the bumper itself, the parking assist control module will interpret this as an attached object and disable the system. Carefully inspect the bumper, bumper mounting surface, and sensor retainers before continuing with normal diagnosis. After the detected cause has been addressed the vehicle must be driven at speed greater than 40 km/h (25 MPH).
- **Rear Attached Object Detected** – An object has been determined to be attached to the rear of the vehicle. Common items such as a hitch receiver, trailer, or a bicycle rack may cause this concern. Additionally, damage to the rear of the vehicle or a misaligned sensor may cause this concern. If the vehicle is damaged in a manner that causes the sensor to detect the bumper itself, the parking assist control module will interpret this as an attached object and disable the system. Carefully inspect the bumper, bumper mounting surface, and sensor retainers before continuing with normal diagnosis. After the detected cause has been addressed the vehicle must be driven at speed greater than 40 km/h (25 MPH).
- **Front And Rear Attached Object Detected** – An object has been determined to be attached to the front and rear of vehicle.

- **Parking Assist Alarm Sensor Blocked** – One of the following conditions may be present:
 - One or more of the sensors may be blocked by snow, mud, ice, or other debris. This might happen after going through a car wash in cold weather.
 - Silicone insulator surrounding sensor maybe missing, cut, or twisted.
 - Improperly installed sensor, sensor maybe be crooked due to a tight wire harness.
 - One or more of the sensors may be scratched or the paint maybe chipped.
 - Excessive paint thickness on a sensor may cause an excessive sensor ring time. When replacing or refinishing a sensor, do not apply an excessive amount of paint or clear coat.
- **Haptic Seat Malfunction** – A fault exists with the safety alert seat. Check for DTCs.
- **Chime Malfunction** – A fault exists with the vehicle chime. Check for DTCs.
- **Parking Assist Switch Malfunction** – A fault exists with the parking assist switch. Check for DTCs.
- **Invalid Gear** – The vehicle has determine a plausibility fault exists with the transmission range.
- **Incorrect Power Mode** – The vehicle is in an incorrect power mode for parking assist operation.

Parking Assist Description and Operation (UKZ)

Note: The automatic parking assist system can steer the vehicle automatically. Be aware that, in some unlikely situations, the vehicle steering wheel and wheels/tires may move without warning. Please be especially aware of situations when vehicle front tires are lifted above the ground on a vehicle hoist as the wheels could move without warning. Please exercise special care if any work is performed with the vehicle running and in gear while elevated on a hoist.

In addition to the eight B166/B306 Parking Assist Alarm Sensors used for front and rear park assist, the automatic parking assist system uses two additional B166/B306 Parking Assist Alarm Sensors located on the front fascia and two additional B166/B306 Parking Assist Alarm Sensors located on the rear fascia. These sensors face toward the side of the vehicle and are used to aid the driver in positioning the vehicle in a parallel parking maneuver.

Note: Any malfunction in the parking assist system may disable automatic parking assist. Automatic parking assist will not operate if the parking assist system is disabled.

Automatic Parking Assist Components

The parking assist system is made up of the following components:

- K182 Parking Assist Control Module
- K124 Image Processing Module
- B166/B306 Parking Assist Alarm Sensors
- K9 Body Control Module
- Parking Assist Switch
- Parking Assist Switch Indicator
- Automatic Parking Assist Switch
- Safety Alert Seat (with HS1)
- Infotainment System

K182 Parking Assist Control Module

The K182 Parking Assist Control Module provides a reference voltage and a low reference to the B166/B306 Parking Assist Alarm Sensors. The K182 Parking Assist Control Module receives individual signals from each of the four B166/B306 Parking Assist Alarm Sensors and determines the location and distance of an object based on these inputs. When an object is detected, the K182 Parking Assist Control Module will send a serial data message to the infotainment system requesting an audible alert.

B166/B306 Parking Assist Alarm Sensors

The B166/B306 Parking Assist Alarm Sensors are located in the front and rear fascia of the vehicle. The sensors are used to determine the distance between an object and the bumper. Each sensor emits an ultrasonic frequency which is reflected off any object located behind the vehicle. These reflections are received by the sensors. The time difference between the emission of the frequency and when the reflection is received is known as sensor echo time; it is used to determine the distance to the object. The sensors report this information to the K182 Parking Assist Control Module.

K9 Body Control Module

The K9 Body Control Module monitors the parking assist switch and control the parking assist switch indicator. When the parking assist switch is pressed, a serial data message is sent to the K182 Parking Assist Control Module indicating the driver is requesting the system be enabled or disabled. The K182 Parking Assist Control Module responds with a message that the system has been enabled or disabled. The K9 Body Control Module will respond by turning the parking assist switch indicator on or off.

The K9 Body Control Module also monitors the automatic parking assist switch. When the automatic parking assist switch is pressed, a serial data message is sent to the K182 Parking Assist Control Module indicating the driver is requesting the advance parking assist function. The K182 Parking Assist Control

Module responds by beginning to search for a suitable parking space if conditions are correct.

On vehicles with HS1, without A45, the K9 Body Control Module also controls the P45 Seat Haptic Movement Motors for Safety Alert Seat operation.

Parking Assist Switch

The parking assist system can be activated and deactivated by pressing the parking assist switch. The K9 Body Control Module applies voltage and monitors the parking assist switch signal circuit. The parking assist switch is a normally open switch. With the switch open, voltage seen at the K9 Body Control Module is high. When the parking assist switch is pressed, the switch is closed and the signal circuit is pulled to ground. With the switch closed, voltage seen at the K9 Body Control Module is low. The K9 Body Control Module will respond to this by sending a serial data message to the K182 Parking Assist Control Module to enable or disable the system.

Parking Assist Switch Indicator

When the parking assist system is enabled, the K124 Image Processing Module will illuminate the indicator on the switch. The indicator is controlled through a low control circuit by the K124 Image Processing Module.

Automatic Parking Assist Switch

The automatic parking assist system can be activated and deactivated by pressing the automatic parking assist switch. The K9 Body Control Module applies voltage and monitors the automatic parking assist switch signal circuit. The automatic parking assist switch is a normally open switch. With the switch open, voltage seen at the K9 Body Control Module is high. When the automatic parking assist switch is pressed, the switch is closed and the signal circuit is pulled to ground. With the switch closed, voltage seen at the K9 Body Control Module is low. The K9 Body Control Module will respond to this by sending a serial data message to the K182 Parking Assist Control Module to enable or disable the system.

Safety Alert Seat (with HS1, without A45)

The K9 Body Control Module controls the P45 Seat Haptic Movement Motors. The P45 Seat Haptic Movement Motors provide haptic alert to the driver. If an object is detected, the K9 Body Control Module will command pulses to the P45 Seat Haptic Movement Motors as an alert to the driver.

Safety Alert Seat (with HS1 and A45)

The K40D Driver Seat Adjuster Memory Module controls the P45 Seat Haptic Movement Motors. The P45 Seat Haptic Movement Motors provide haptic alert to the driver. If an object is detected, the K40D Driver Seat Adjuster Memory Module will command pulses to the P45 Seat Haptic Movement Motors as an alert to the driver.

Infotainment System

The infotainment system controls the audible alert for the parking assist system. If the an object is detected the infotainment system will command beeps as an audible alert to the driver.

Parking Assist Operation

The rear parking assist system uses four B166/B306 Parking Assist Alarm Sensors located on the rear fascia and functions when the transmission is in REVERSE. When a driver is backing up at a low speed, up to about 11 km/h (7 mph), the B166/B306 Parking Assist Alarm Sensors may detect objects up to 1.8 m (6 ft) behind the vehicle. When an object is within the measuring range of the B166/B306 Parking Assist Alarm Sensors, the ultrasonic pulse is reflected and is received by the sending or a neighboring sensor. The sensor converts this signal into a voltage signal and sends this signal to the K182 Parking Assist Control Module. The K182 Parking Assist Control Module evaluates the received sensor signals.

When an object is within 0.6 m (2 ft) of the rear bumper, 5 repeating low-pitched beeps are played from the rear speakers, followed by a continuous tone. If the vehicle is equipped with the Safety Alert Seat (HS1), it will pulse 5 times on both sides.

The front parking assist system uses four B306 Parking Assist Alarm Sensors located on the front fascia and functions when the vehicle is moving forward at low speeds. When a driver is driving forward at a low speed, up to about 11 km/h (7 mph), the B166/B306 Parking Assist Alarm Sensors may detect objects up to 1.8 m (6 ft) in front of the vehicle. When an object is within the measuring range of the B166/B306 Parking Assist Alarm Sensors, the ultrasonic pulse is reflected and is received by the sending or a neighboring sensor. The sensor converts this signal into a voltage signal and sends this signal to the K182 Parking Assist Control Module. The K182 Parking Assist Control Module evaluates the received sensor signals.

When an object is within 0.3 m (1 ft) of the front bumper, 5 repeating low-pitched beeps are played from the front speakers, followed by a continuous tone. If the vehicle is equipped with the Safety Alert Seat (HS1), it will pulse 5 times on both sides. The tone for front parking assist is higher pitched than the tone for rear parking assist.

Some vehicles may have a park assist display on the P16 Instrument Panel Cluster Module with bars that show "distance to object," driving direction, and object location information for the parking assist system. As the vehicle gets closer to the detected object, distance-to-object information and caution triangles may be displayed that changes from yellow to amber to red.

The parking assist system can be turned on and off using the parking assist switch.

The K182 Parking Assist Control Module carries out a self test and monitors the sensors for electrical and mechanical faults. Monitored is the power supply of each sensor and the sensor signals. Mud, ice and snow may cause obstruction of the function of the sensors. The K182 Parking Assist Control Module also determines if the correct type of sensor is installed. If any of these tests fails, a DTC with corresponding symptom is set and the parking assist system is deactivated.

Automatic Parking Assist Operation

The automatic parking assist system aids the driver when attempting a parking maneuver. The K182 Parking Assist Control Module uses the four additional side-facing B306 Parking Assist Alarm Sensors located in the front and rear fascia, along with the eight typical forward and rearward-facing B306 Parking Assist Alarm Sensors, to guide the driver into a parking space.

Note: The driver seat belt must be buckled for the Automatic Parking Assist to operate. Unbuckling the seat belt during Automatic Parking Assist operation can cause the system to stop and not complete the parking maneuver.

The automatic parking assist switch is used to initiate the parking assist system when traveling at speeds below approximately 30 km/h (18 mph) (refer to owners manual for exact speed). While driving along a row of vehicles in which the driver wishes to park, the parking assist is activated by a switch or the infotainment screen. This will enable the automatic parking assist system and the K182 Parking Assist Control Module will begin seeking potential parking spots using the B306 Parking Assist Alarm Sensors.

When a parking spot of suitable size is found, the K182 Parking Assist Control Module will display a stop message on the driver information center. The driver accepts the decision by stopping the vehicle. The system calculates the optimal path into the parking spot and will then guide the vehicle into the chosen spot by taking over the shifting, steering, and braking control from the driver. Once in the parking spot, the K182 Parking Assist Control Module will center the vehicle in the spot.

If the automatic parking assist system is unable to complete a parking maneuver, a message indicating that the maneuver has been aborted will be displayed on the driver information center. Vehicle control will be given back to the driver once the brake or parking brake is applied.

Parking Assist System Messages

SERVICE PARKING ASSIST or SERVICE DRIVER ASSIST

The driver information center displays SERVICE PARKING ASSIST or SERVICE DRIVER ASSIST when the K182 Parking Assist Control Module detects a malfunction in the parking assist system and the system is disabled.

PARK ASSIST OFF

The PARK ASSIST OFF message is displayed in the driver information center when the parking assist system is disabled due to conditions that disable or inhibit the system. The K182 Parking Assist Control Module requests the driver information center display PARK ASSIST OFF when it detects such a condition.

Parking Assist System Operational Checks

The scan tool Parking Assist Disable History 1–8 data can be used to diagnose a malfunction within the parking assist system or an intermittent concern. The following is a brief description of potential causes which may aid in diagnosis. For each potential issue, perform an appropriate inspect of the component or system and refer to the specific service information subsection related to that system for further diagnosis:

- Disable by Switch – The parking assist system has been disabled through the parking assist switch.
- Disabled by Customization Menu – The parking assist system has been disabled through the vehicle personalization menu.
- Vehicle Speed Too High – The vehicle is travelling too fast in reverse at speeds of greater than 8 km/h (5 mph).
- Vehicle Speed Invalid – The vehicle is unable to determine the vehicle speed.
- Steering Angle Signal Invalid – The vehicle is unable to determine the steering angle.
- Front Attached Object Detected – An object has been determined to be attached to the front of the vehicle. Common items such as a brush guards, light bars, and license plates may cause this concern. Additionally, damage to the front of the vehicle or a misaligned sensor may cause this concern. If the vehicle is damaged in a manner that causes the sensor to detect the bumper itself, the parking assist control module will interpret this as an attached object and disable the system. Carefully inspect the bumper, bumper mounting surface, and sensor retainers before continuing with normal diagnosis. After the detected cause has been addressed the vehicle must be driven at speed greater than 40 km/h (25 MPH).
- Rear Attached Object Detected – An object has been determined to be attached to the rear of the vehicle. Common items such as a hitch receiver, trailer, or a bicycle rack may cause this concern. Additionally, damage to the rear of the vehicle or a misaligned sensor may cause this concern. If the vehicle is damaged in a manner that causes the sensor to detect the bumper itself, the parking assist control module will interpret this as an attached object and disable the system. Carefully inspect the bumper, bumper mounting surface, and sensor retainers before continuing with normal diagnosis. After the detected cause has been addressed the vehicle must be driven at speed greater than 40 km/h (25 MPH).
- Front And Rear Attached Object Detected – An object has been determined to be attached to the front and rear of vehicle.
- Parking Assist Alarm Sensor Blocked – One of the following conditions may be present:
 - One or more of the sensors may be blocked by snow, mud, ice, or other debris. This might happen after going through a car wash in cold weather.
 - Silicone insulator surrounding sensor maybe missing, cut, or twisted.
 - Improperly installed sensor, sensor maybe be crooked due to a tight wire harness.
 - One or more of the sensors may be scratched or the paint maybe chipped.
 - Excessive paint thickness on a sensor may cause an excessive sensor ring time. When replacing or refinishing a sensor, do not apply an excessive amount of paint or clear coat.
- Haptic Seat Malfunction – A fault exists with the safety alert seat. Check for DTCs.
- Chime Malfunction – A fault exists with the vehicle chime. Check for DTCs.
- Parking Assist Switch Malfunction – A fault exists with the parking assist switch. Check for DTCs.
- Invalid Gear – The vehicle has determine a plausibility fault exists with the transmission range.
- Incorrect Power Mode – The vehicle is in an incorrect power mode for parking assist operation.

Automatic Parking Assist System Operational Checks

The scan tool Automatic Parking Assist Disable History 1–8 data can be used to diagnose a malfunction within the parking assist system or an intermittent concern. The following is a brief description of potential causes which may aid in diagnosis. For each potential issue, perform an appropriate inspect of the component or system and refer to the specific service information subsection related to that system for further diagnosis:

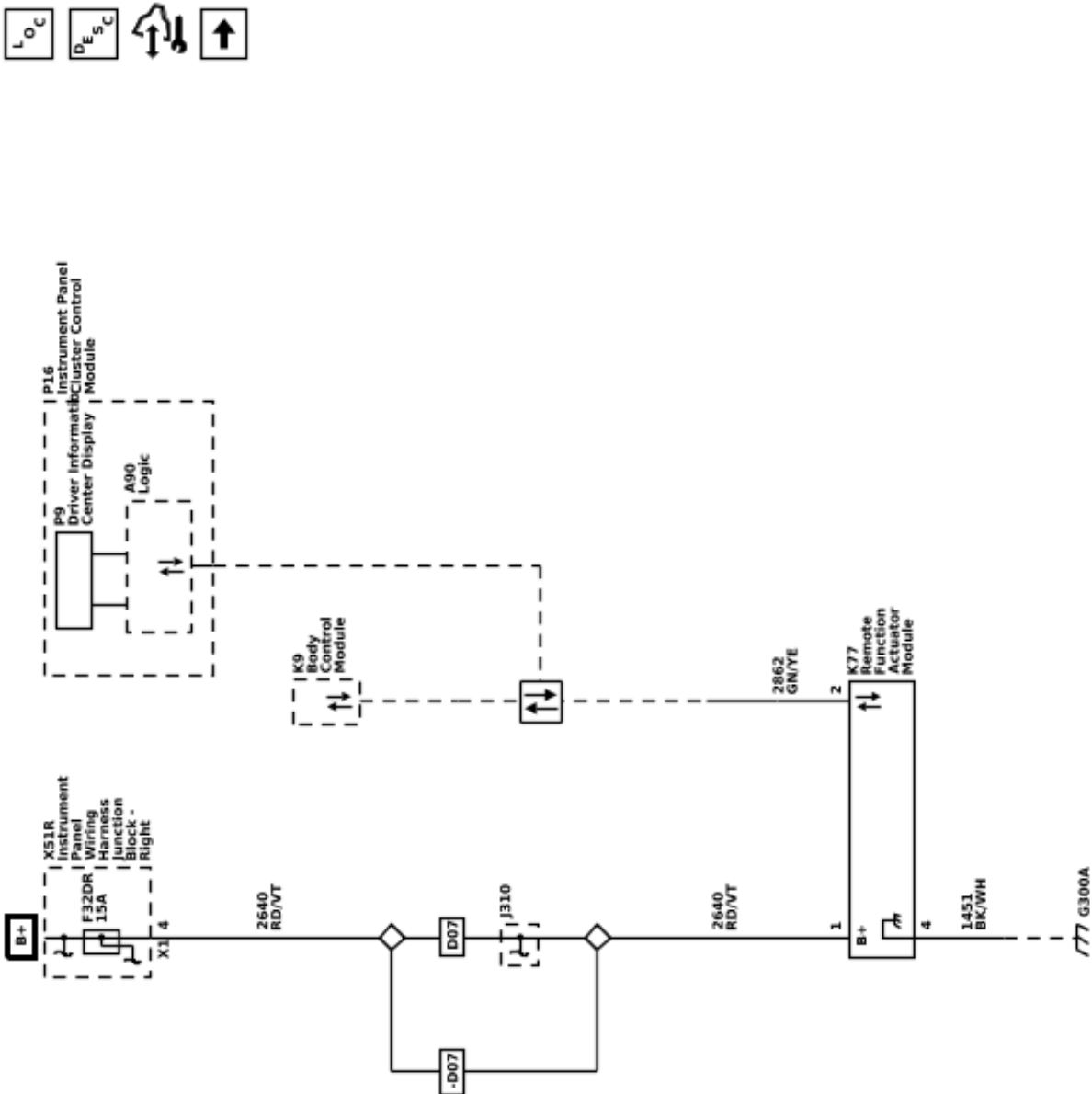
- Automatic Parking Assist Switch Pressed – The automatic parking assist switch has been pressed a second time, aborting the function.
- Automatic Parking Assist Switch Malfunction – The automatic parking assist is stuck closed or has been held down.
- Interrupted by Driver – The Automatic parking assist operation has been aborted by the driver by interfacing with the steering, brake, or accelerator.
- Info Display Control Malfunction – The Automatic parking assist system is not able to provide instructions on the driver information center
- Door Open – A door has been opened.
- Parking Brake Malfunction – A malfunction has been detected in the electric parking brake system.
- Vehicle Dynamics System Status Not Plausible – An implausible scenario between the steering angle sensor, yaw sensor, and lateral/longitudinal accelerometer has been determined.
- Steering Response Malfunction – The steering system has not responded as expected to a steering command.
- Automatic Brake Response Malfunction
- Transmission Response Malfunction – The transmission has not responded as expected to a shift command.
- Automatic Braking Apply Response Not Plausible – An implausible scenario between a brake apply command and vehicle deceleration has been determined.
- Vehicle Movement Detected During Brake Applied Request – Vehicle movement has occurred while the brakes are commanded to apply.
- Chime Malfunction – A fault exists with the vehicle chime. Check for DTCs.
- Wheel Speed Direction Signal Invalid – Identified wheel directional travel does not match intended travel direction.
- Vehicle Speed Invalid – The vehicle is unable to determine the vehicle speed.
- Attached Object Detected – An object has been determined to be attached to the front and rear of vehicle.
- Parking Maneuver Vehicle Speed Exceeded – The vehicle has exceeded the maximum allowable speed for the parking maneuver.
- Vehicle Speed Too High to Search for a Parking Space – The vehicle has exceeded the maximum allowable speed to search for a suitable parking spot.
- Number of Parking Maneuvers Exceeded – The maximum number of parking attempts for a single maneuver has been exceeded.
- Parking Space Too Small – The vehicle has determined the space for the attempted parking maneuver is too small.
- Vehicle Not Following Parking Space Path – The vehicle is unable to follow the intended path of the parking maneuver.
- Yaw Angle Above Threshold – The expected yaw angle for the parking maneuver has been exceeded.
- Steering Angle Deviation Above Threshold – The expected steering angle for the parking maneuver has been exceeded.
- Object Detected on Both Sides of Vehicle – An object has been detected on both the left and right side of the vehicle.
- Object Detected in Alert Zone – An object has been detected in the vehicle's path.
- Sensor Blocked – One of the following conditions may be present:
 - One or more of the sensors may be blocked by snow, mud, ice, or other debris. This might happen after going through a car wash in cold weather.
 - Silicone insulator surrounding sensor maybe missing, cut, or twisted.
 - Improperly installed sensor, sensor maybe be crooked due to a tight wire harness.
 - One or more of the sensors may be scratched or the paint maybe chipped.
 - Excessive paint thickness on a sensor may cause an excessive sensor ring time. When replacing or refinishing a sensor, do not apply an excessive amount of paint or clear coat.
- Steering Angle Signal Invalid – The vehicle is unable to determine the steering angle.
- Invalid Gear – The vehicle has determine a plausibility fault exists with the transmission range.
- Incorrect Power Mode – The vehicle is in an incorrect power mode for parking assist operation.

Remote Functions

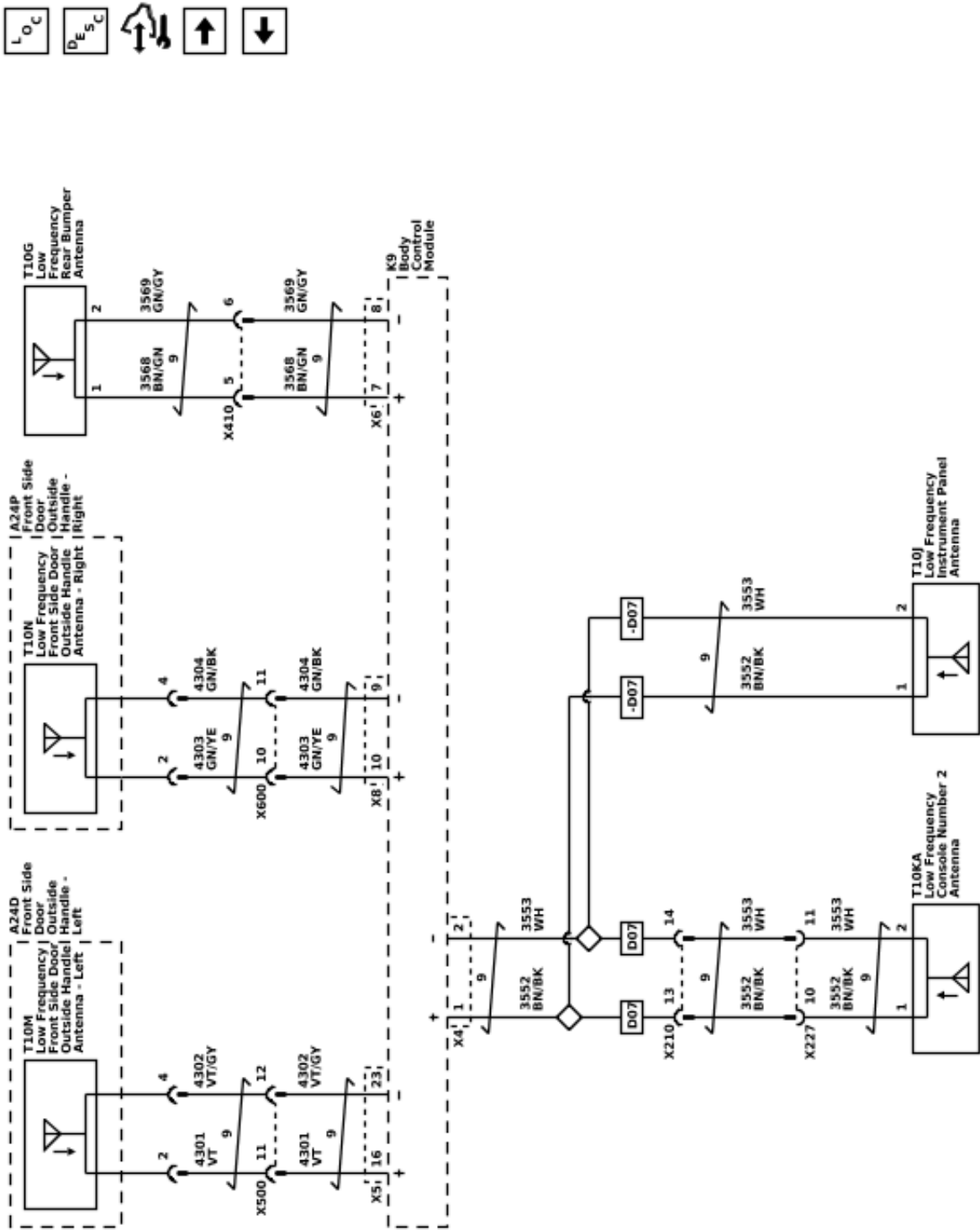
Schematic and Routing Diagrams

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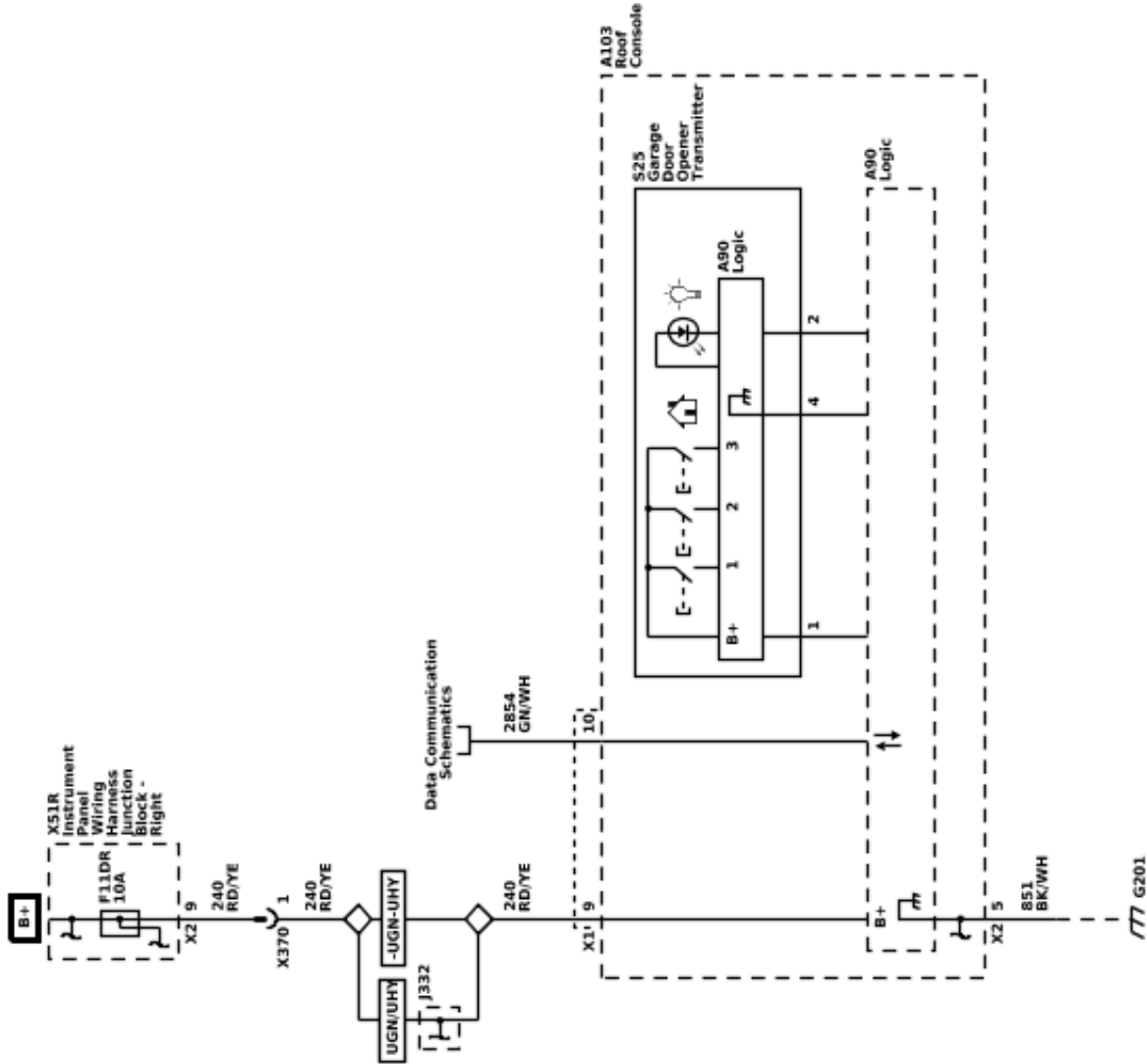
Remote Function Schematics (Keyless Entry - Active)



Remote Function Schematics (Keyless Entry - Passive and Keyless Start)



Remote Function Schematics (Garage Door Opener (UG1))



Description and Operation

Front Side Door Access Control Transmitter Description and Operation

Front Side Door Access Control Transmitter Description and Operation

The Front Side Door Access Control Transmitter is an accessory offered to be used as a vehicle entry device. Similar to the Keyless Entry Transmitter, the Front Side Door Access Control Transmitter will send a radio frequency signal to the Remote Function Actuator. Next, the Remote Function Actuator sends a signal to the Body Control Module via LIN communication. The BCM will interpret this signal and either lock or unlock the vehicle as a result. A low transmitter battery or radio frequency interference from aftermarket devices, such as 2-way radios, power inverters, computers, etc., may cause a system malfunction. High radio frequency traffic areas, such as gas stations that use pay-at-the-pump radio frequency transponders, may also cause interference that could lead to a malfunction.

Like the Keyless Entry Transmitter, the Front Side Door Access Control Transmitter is programmed to the vehicle's Body Control Module. This means the Front Side Door Access Control Transmitter will populate one of the 8 programmable spaces in the BCM for Keyless Entry Transmitters. The Front Side Door Access Control Transmitter will need to be reprogrammed in the event of BCM replacement. This can only be achieved with the Master Code. If the Master Code is not retrievable, a new Front Side Door Access Control Transmitter with accompanying wallet card will need to be programmed to the new BCM.

The Front Side Door Access Control Transmitter has 5 buttons depicting numbers from 0 to 9. Each button represents a character of a 5 digit code that the vehicle owner may program, which will be referred to as a personal code. The user has 3 attempts to input the correct access code before the Front Side Door Access Control Transmitter enters lockout mode for 1 minute. This will occur up to 2 more times if the incorrect access code is entered repeatedly. After that, any additional 3 attempts will cause the Front Side Door Access Control Transmitter to enter lockout mode for 23 minutes. There is an LED light at the top of the Front Side Door Access Control Transmitter that provides feedback to the user. Each Front Side Door Access Control Transmitter is sold with a wallet card that contains a master code that may be used for keyless entry as well as programming a personal code. The master code will always allow operation of the Front Side Door Access Control Transmitter and may be used to program a new personal code. Entering the 5 digit access code will unlock the driver door. Pressing the 3/4 key within 5 seconds of entering the 5 digit access code will unlock all doors. Pressing the 7/8 and 9/0 button will lock all doors. To change the personal code, refer to the wallet card included with the Front Side Door Access Control Transmitter.

The Front Side Door Access Control Transmitter contains a button cell battery that is not serviceable. Once the battery exceeds the expected lifetime, the Front Side Door Access Control Transmitter will need to be replaced. A new Front Side Door Access Control Transmitter will come with new wallet card.

Garage Door Opener Description and Operation

The garage door opener is fixed and rolling code capable. Rolling code is a system that allows the code that the customer's receiver receives from the garage door opener to change every time the garage door opener is used within operating range of the receiver. Rolling code programming requires the customer to push a learn/program button on the garage door opener receiver at their home. This button is usually located on the receiver unit under a cover (light cover) on one end of the unit. The customer must follow the garage door opener manufacturer's instructions to program/learn the receiver to accept the Universal Home Remote System as an authorized opener for their unit. When the receiver and the garage door opener are initially programmed together, a code is established and a new code is created for every new transmission. The software in the receiver recognizes the garage door opener and accepts the new code.

The garage door opener is compatible with most, but not all types and brands of transmitters.

The garage door opener is a transmitter operating between 288–434 MHz. The power and range of the transmitter is limited to comply with laws governing the generation of radio frequency interference. The transmitter is programmed by the user to accept the signal generated by the user's transmitters.

The garage door opener has 3 buttons that may be programmed for individual transmitter/receiver combinations to control up to 3 garage door openers, security gates, lighting systems, etc. Each button represents a transmitter code section of the transmitter, which operates separately from any other button, and may be considered a separate transmitter. Operation consists of simply pressing a button to activate the corresponding transmitter.

The garage door opener does not need any programming after it is replaced. However, for the opener function it must be programmed to the customer's garage door or other devices such as a gate. The programming can only be performed at the device being programmed, it cannot be programmed at a service facility. Instructions for programming are listed in the Garage Door Opener Malfunction document in a Diagnostic Aid.

Note: Do not use the garage door opener (GDO) with any garage door opener that does not have the stop and reverse safety feature. This includes any garage door opener model manufactured before April 1, 1982.

Keyless Entry System Description and Operation

Keyless Entry System Description and Operation – Active

The keyless entry system is a vehicle entry device. The keyless entry system is used in conjunction with the door locks to unlock the vehicle. Keyless entry will lock/unlock a door or open the rear compartment lid when a corresponding button on the keyless entry transmitter is pressed. This is accomplished by the transmitter sending a radio frequency to the remote control door lock receiver that has a direct link to the body control module (BCM). The BCM interprets the signal and activates the requested function or requests the appropriate ECU to activate the function via a serial data message. A low transmitter battery or radio frequency interference from aftermarket devices, such as 2-way radios, power inverters, computers, etc., may cause a system malfunction. High radio frequency traffic areas, such as gas stations that use pay-at-the-pump radio frequency transponders, may also cause interference that could lead to a malfunction. Keyless entry allows you to operate the following features:

- Door lock/unlock
- Rear compartment lid release

- Illuminated entry lamps
- Panic alarm/vehicle locator
- Remote vehicle start
- Passive keyless entry able/disable
- Automatic window express down, if equipped
- Automatic window express up, if equipped
- Automatic power mirror folding/unfolding, if equipped

Keyless Entry System Description and Operation – Passive

Passive keyless entry allows entry to a locked vehicle without pressing any buttons on the keyless entry transmitter. The passive entry system uses low frequency antennas in several different areas on the vehicle to determine the location of the transmitter. When passively opening a locked door or the rear compartment, you must have a programmed transmitter with you in your pocket, purse, or briefcase within a one meter range.

When an exterior door handle button is pressed or the rear compartment touch pad is pressed, the body control module activates the low frequency antenna which sends out a challenge to the keyless entry transmitter. Because of the low frequency, communication range is limited. The antenna will emit the challenge in a one meter range. The transmitter must be within this range to receive the challenge. The transmitter receives this challenge and emits its response as an RF message, which is received by the remote control door lock receiver. If the response is correct, entry into the vehicle will be allowed.

As a customer convenience feature, the keyless entry system will notify the driver if the transmitter has been left in the vehicle after exiting by chirping the vehicle horn three times and displaying a message on the DIC. This may be turned off using vehicle personalization. Also, if the transmitter is left in the vehicle after the central door lock switch has been used to lock the vehicle, the driver door will remain unlocked after exiting the vehicle. This is intended to prevent locking the transmitter in the vehicle and being unable to access it.

Keyless Entry System Description and Operation – Keyless Start

The keyless start portion of the keyless entry system allows vehicle starting, having only the transmitter as your key. The keyless start system uses low frequency antennas in three different locations on the vehicle to determine the location of the transmitter. Multiple antenna are used to ensure complete coverage of the vehicle interior and rear compartment. When using the keyless start system, a programmed transmitter must be in the vehicle's interior, in the driver's pocket, purse, or briefcase.

When the ignition mode switch is pressed, the low frequency antennas emit a challenge to the keyless entry transmitter. The transmitter receives this challenge and emits its response as an RF message, which is received by the remote control door lock receiver. If the response is correct, vehicle starting will be allowed. If RF communication is interrupted, a "No Remote Detected" message will be displayed on the DIC. In these cases, the transmitter can be placed in the transmitter pocket located in the center console. The immobilizer antenna coil is located directly beneath the transmitter pocket. Placing the transmitter in the pocket will create a low powered coupling between the transmitter and immobilizer antenna, allowing communications to occur and enabling vehicle starting. If the key has been idle the DIC may display "Key In Sleep Mode, Move Key, Then Start". In this case move the vehicle key to start the vehicle.

The keyless entry system has the following components:

- Keyless entry integrated key/transmitter
- Driver and passenger side antennas
- Driver and passenger door handle switches (part of the door handle assembly)
- Rear fascia antenna
- Immobilizer antenna coil (front console antenna function)
- Rear console antenna
- Trunk antenna (rear compartment)
- Body control module (BCM)
- Remote control door lock receiver

Keyless Entry Transmitters

By operating any of the exterior door handle buttons or the start/stop switch, a nearby transmitter is challenged by a keyless entry antenna. The transmitter will send an RF response to the remote control door lock receiver, which communicates with the BCM. The BCM will interpret this communication and either allow or deny vehicle entry or starting.

Side Antennas

The keyless entry side antennas are used to transmit low frequency communications to the keyless entry transmitters.

The keyless entry side antennas are located in the driver and passenger body sides. The antennas are controlled by the body control module. When the exterior door handle button is pressed, the respective antenna will send out a challenge to the keyless entry transmitter, which begins the passive entry communications.

Rear Fascia Antenna

The rear fascia antenna is used to transmit low frequency communication to the keyless entry transmitters for entry to rear compartment.

The rear fascia antenna is located behind the rear fascia. The antenna is controlled by the body control module. When the rear compartment touch pad is pressed, the antenna sends out a challenge to the keyless entry transmitter, which begins the passive entry communications.

Immobilizer Coil Antenna

This antenna is located in the front of the center console.

The Immobilizer antenna coil is used for vehicle starting functions and for learning vehicle keys. When the ignition mode switch is pressed, the antenna is energized or "pinged". This emits a low frequency challenge signal that is received by the keyless entry transmitter. The transmitter will then reply to this challenge with a response and, if correct, vehicle starting will occur. If the transmitter battery is dead, weak, or the RF signal is being interrupted, the transmitter may be placed in the pocket to create a low powered coupling between the transmitter and immobilizer coil antenna, allowing communications to occur and enabling vehicle starting.

Rear Console Antenna

This antenna is located in the rear of the center console.

The rear console antenna is used for vehicle starting functions. When the ignition mode switch is pressed, the antenna is energized or "pinged". This emits a low frequency challenge signal that is received by the keyless entry transmitter. The transmitter will then reply to this challenge with a response and, if correct, vehicle starting will occur.

Rear Compartment Antenna

This antenna is located near the center of the rear compartment area.

The rear compartment antenna is used for vehicle starting functions. When the ignition mode switch is pressed, the antenna is energized or "pinged". This emits a low frequency challenge signal that is received by the keyless entry transmitter. The transmitter will then reply to this challenge with a response and, if correct, vehicle starting will occur.

OnStar® Remote Link

A vehicle operator may have the ability to perform some of the keyless entry functions using applications on personal devices such as smart phones. Refer to **OnStar Description and Operation**.

Body Control Module (BCM)

The BCM is a multi-function module that performs the following functions:

- Receive and authenticate active transmitter and keyless start/entry signals from the remote control door lock receiver
- Determines the function requested by the transmitter signal
- Performs the function requested by the transmitter signal
- Activating vehicle antennas for passive keyless entry functions
- Activating vehicle antennas for keyless start functions
- Backup control for the ECM accessory wakeup and the run/crank relay
- If equipped, controls the electronic steering column lock
- Receiver of the exterior door handle switch inputs and door open switch (not the door ajar switch)
- Ignition mode switch monitoring

Unlock Driver Door Only – Active

Momentarily press the transmitter UNLOCK button in order to perform the following functions:

- Unlock only the driver door or all doors, if enabled through personalization
- Illuminate the interior lamps for a determined length of time, or until the ignition is turned ON
- Flash the exterior lights, if enabled through personalization
- Disarm the Content Theft Deterrent (CTD) system
- Deactivate the CTD system when in the alarm mode

Unlock All Doors – Second Operation – Active

Momentarily press the transmitter UNLOCK button a second time, within 5 seconds of the first press, to perform the following function:

Unlock the remaining doors

Unlock Driver Door Only – Passive

If enabled through personalization, approach the driver door with a valid keyless entry transmitter and press the door handle button to perform the following functions:

- Unlock and open only the driver door
- Disarm the CTD system, if equipped
- Deactivate the CTD system when in the alarm mode

Unlock All Doors – Passive

Approach any non driver door (front or rear) or, if enabled through personalization, the driver door with a valid keyless entry transmitter and press the door handle button to perform the following functions:

- Unlock all vehicle doors
- Disarm the CTD system, if equipped
- Deactivate the CTD system when in the alarm mode

Lock All Doors – Active

Press the transmitter LOCK button to perform the following functions:

- Lock all vehicle doors
- Immediately turn off the interior lamps
- Flash the exterior lights, if enabled through personalization
- Chirp the horn, if enabled through personalization
- Arm the CTD system

Lock All Doors – Passive

Exit the vehicle (with ignition off) with the keyless entry transmitter to automatically perform the following functions, if equipped.

- Lock all vehicle doors after a delay
- Flash the exterior lights, if enabled through personalization
- Chirp horn, if enabled through personalization
- Arm the CTD system

When all doors are closed, they can also be locked from the exterior by operating a front door handle button or touch pad while having a valid transmitter within range. Vehicles equipped with a rear door button can also lock all doors from the rear doors.

Rear Compartment Lid Release – Active

If the vehicle transaxle is in PARK or NEUTRAL, a double press of the transmitter rear compartment release button will open the rear compartment lid.

Rear Compartment Lid Release – Passive

Approach the rear of a locked vehicle with a valid keyless entry transmitter. Press the rear compartment lid release touch pad. The rear compartment lid will open.

Vehicle Locator/Panic Alarm/Active

A single press of the panic button performs the following functions. Some functions may be dependent on personalization settings:

- Pulses the horn three times
- Flashes the exterior lamps three times

A press and hold of the panic button performs the following functions:

- Pulses the horn and flashes the parking lamps for 30 second or until the following conditions occur:
 - The panic button is pressed
 - The ignition switch is turned to the RUN position with a valid key

Remote Vehicle Start/Active

The remote vehicle start function allows engine starting while not in the vehicle. It also allows the vehicle HVAC system and other vehicle systems to enable, providing a comfortable vehicle upon entry. The remote vehicle start sequence begins by pressing and releasing the remote vehicle start button on the keyless entry transmitter twice. The turn signal lamps will illuminate to indicate the vehicle has received the remote start request. Each time a remote vehicle start is performed, the vehicle doors are locked, however they may then be unlocked/locked with the transmitter at any time. Once activated, the engine is allowed to run for 15 minutes. The remote start operation can be repeated as many times as desired up to a total run time of 30 minutes. The remote vehicle start event may be cancelled at any time by pressing only the remote vehicle start button on the transmitter or by entering the vehicle and turning ON the hazard lamps.

Hood Ajar Switch/Active

The hood switch provides status of the hood to the BCM for remote vehicle start purposes. The switch is integrated into the hood latch assembly. The hood ajar switch provides 2 separate inputs to the BCM. These separate inputs allow the BCM to actively monitor for a hood ajar switch fault.

Remote Vehicle Start Circuit Description/Active

The BCM receives a signal from the keyless entry transmitter indicating a remote vehicle start request. The BCM and ECM use the following inputs to verify the system is ready to enable a remote vehicle start event:

- Vehicle is not in valet mode
- Vehicle is in park
- Keyless entry transmitter is not in the vehicle
- The hood is closed

- The hazard switch is OFF
- Vehicle power mode is OFF
- The malfunction indicator lamp (MIL) is not commanded ON by the ECM
- Remote start timer does not equal 0 (the 30 minute maximum time has not been used)

When the BCM determines all conditions meet those required for a remote vehicle start event, a message is sent via serial data to the ECM. While the ECM is in remote vehicle start mode it will cut fuel to the engine if any of the following monitored conditions occur:

- Vehicle speed is greater than 0
- Transmission is not in P
- Excessive engine coolant temperature
- Low oil pressure
- Engine crank time is greater than 30 seconds
- Excessive engine speed
- Accelerator pedal position too high
- Immobilizer system indicates a theft attempt

If any conditions prevent a remote start or cause a remote start operation to be cancelled there is a record of the cause in the scan tool.

Keyless Entry Personalization

Vehicle lock/unlock functions and remote vehicle start settings may be personalized for the vehicle. This includes the capability of turning the passive entry system completely off. For functional descriptions and programming instructions, refer to the vehicle owners manual.

Section 8

Transmission

Shift Lock Control 8-2

 Schematic and Routing Diagrams 8-2

 Shift Lock Control Schematics 8-3

 Description and Operation 8-4

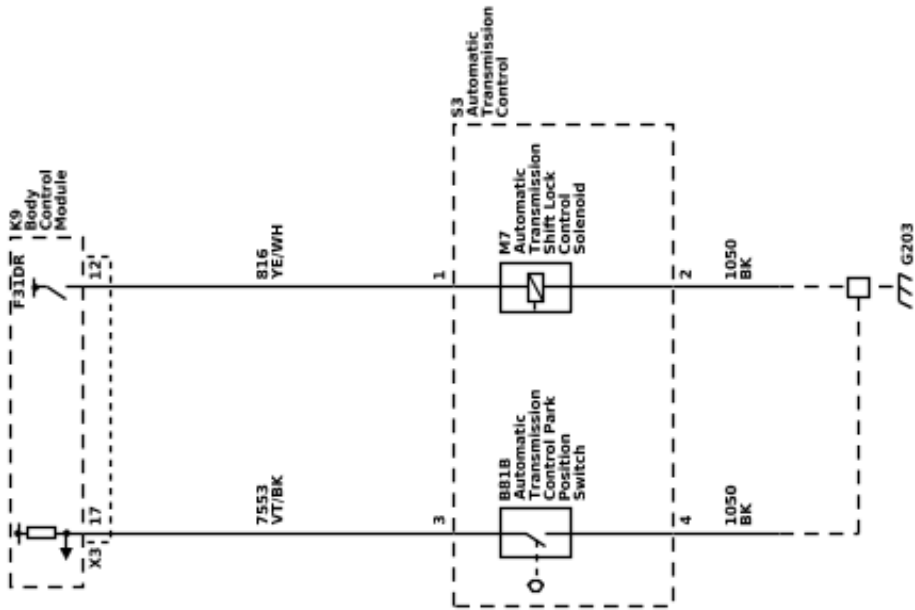
 Automatic Transmission Shift Lock Control
 Description and Operation 8-4

Transmission

Shift Lock Control

Schematic and Routing Diagrams

Shift Lock Control Schematics (Shift Lock Control)



Description and Operation

Automatic Transmission Shift Lock Control Description and Operation

The Automatic Transmission Shift Lock Control System is a safety device that prevents an inadvertent shift out of PARK when the engine is running. The driver must press the brake pedal before moving the shift lever out of the PARK position. The system consists of the following components:

- The Automatic Transmission Shift Lock Solenoid (serviced as the S3 Automatic Transmission Shift Lock Actuator)
- The Body Control Module (BCM)
- The Engine Control Module (ECM)

The BCM controls the voltage to the shift lock control solenoid through the shift lock control solenoid controlled voltage circuit. The following conditions must be met before the BCM will supply voltage to the shift lock control solenoid:

- The ignition is in the ON position.
- The ECM sends an input via GMLAN serial data to the BCM when the Transmission Control Module (TCM) indicates the transmission is in the PARK position.
- The BCM receives a brake applied input from the stop lamp switch.

Since the shift lock control solenoid is permanently grounded, the BCM supplies voltage to the automatic transmission shift lock control solenoid, releasing the mechanical lock on the shift lever as the solenoid energizes. The energized solenoid allows the driver to move the shift lever out of the PARK position. When the brake pedal is not applied, the BCM turns the control voltage output of the shift lock control solenoid OFF, de-energizing the shift lock control solenoid. When the transmission is in the PARK position, the de-energized shift lock control solenoid will prevent shifting as the lever is mechanically locked in the PARK position.

During remote start operation the BCM will de-energize the automatic transmission shift lock control circuit, locking the shift lever in the PARK position

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