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Section 0

General Information

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General Information

General Information

Introduction

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



5138041

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	Manufacturer	G	General Motors
3	Vehicle Brand/Type	D	GMC Incomplete Truck
		T	GMC Truck
4	GVWR/Brake System/Body Style	N	6,001–7,000 lbs/Hydraulic/Commercial Special Cutaway, Two (2) Door Cab pick-up, Motor Home Chassis
		P	6,001–7,000 lbs/Hydraulic/Crew Cab
		R	6,001–7,000 lbs/Hydraulic/Extended Cab
		U	7,001–8,000 lbs/Hydraulic/Crew Cab

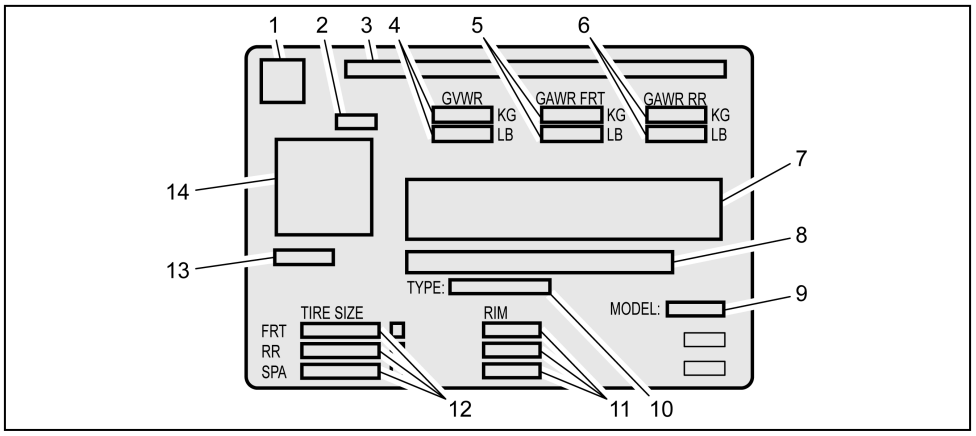
Position	Definition	Character	Description
		V	7,001–8,000 lbs/Hydraulic/Extended Cab
		0	9,001–10,000 lbs/Hydraulic/Commercial Special Cutaway, Two (2) Door Cab pick-up, Motor Home Chassis
		1	9,001–10,000 lbs/Hydraulic/Crew Cab
		2	9,001–10,000 lbs/Hydraulic/Extended Cab
		3	10,001–14,000 lbs/Hydraulic/Commercial Special Cutaway, Two (2) Door Cab pick-up, Motor Home Chassis
		4	10,001–14,000 lbs/Hydraulic/Crew Cab
		5	10,001–14,000 lbs/Hydraulic/Extended Cab
5/6	Chassis/Series	8/L	GMC Sierra 2500 Fleet/Base 2WD
		8/M	GMC Sierra 2500 SLE 2WD
		8/N	GMC Sierra 2500 SLT 2WD
		8/P	GMC Sierra 3500 Fleet/Base 2WD
		8/R	GMC Sierra 3500 SLE 2WD
		8/S	GMC Sierra 3500 SLT 2WD
		9/L	GMC Sierra 2500 Fleet/Base 4WD
		9/M	GMC Sierra 2500 SLE 4WD
		9/N	GMC Sierra 2500 SLT 4WD
		9/P	GMC Sierra 2500 SLT 4WD
		9/R	GMC Sierra 2500 Denali 4WD
		9/S	GMC Sierra 3500 Fleet/Base 4WD
		9/T	GMC Sierra 3500 SLE 4WD
		9/U	GMC Sierra 3500 SLT 4WD
		9/V	GMC Sierra 3500 AT4 SRW 4WD
		9/W	GMC Sierra 3500 Denali 4WD
		9/9	GMC Sierra 4WD, (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	Y	L5P - ENGINE DIESEL, 8 CYL, 6.6L, DI, V8, TURBO, DURAMAX, GEN 5
		7	L8T - ENGINE GAS, 8 CYL, 6.6L, SIDI, VVT, CAST IRON
9	Check Digit	—	Check Digit
10	Model Year	S	2025
11	Plant Location	F	Flint, Michigan, USA
12–17	Plant Sequence Number	—	Plant Sequence Number

6.6L (L5P) Engine ID and VIN Derivative Location
Engine Identification

6.6L (L8T) Engine ID and VIN Derivative Location
Engine Identification

10L1000 (MGM MGU) Transmission ID and VIN Derivative Location
Transmission Identification Information

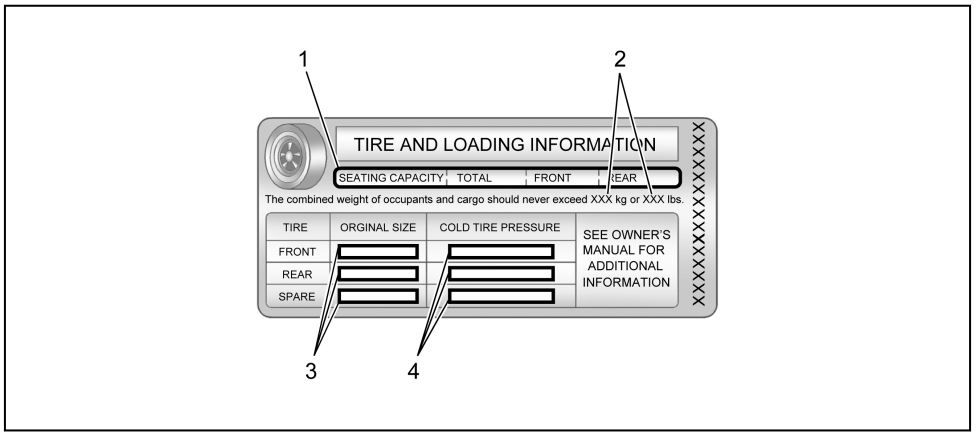
Vehicle Certification, Tire Placard, and Anti-Theft Label



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Vehicle Certification Label

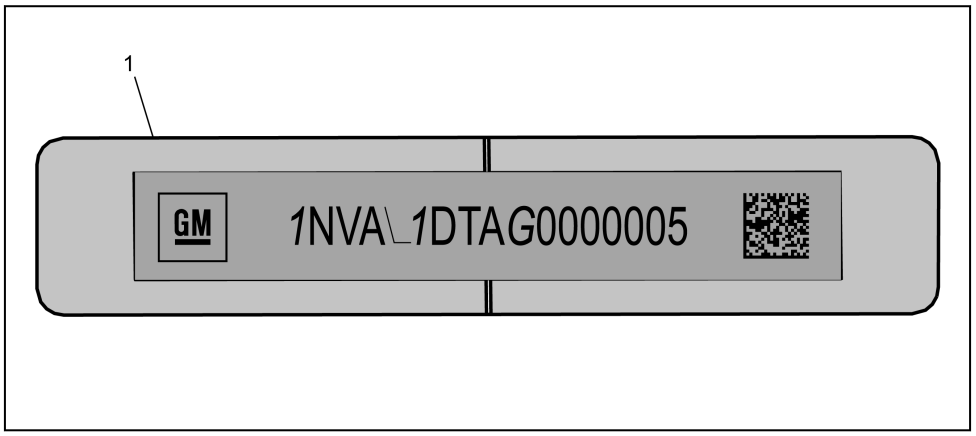
Callout	Description
A vehicle-specific Certification label is attached to the vehicle's center pillar (B-pillar) and displays the following assessments:	
1	Logo
2	Final Date of Manufacture (Month and Year MM/YY) Date of manufacture is to reflect the date that the vehicle is counted as built. In those 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
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
1SA	PACKAGE - OPTION 01
3SA	PACKAGE - SLE OPTION 1
4AA	INTERIOR TRIM - JET BLACK
4B4	INTERIOR TRIM - JET BLACK/CERAMIC WHITE

RPO	Description
4DK	INTERIOR TRIM - JET BLACK / VECCHIO BASE SAUVAGE PRINT
4DL	INTERIOR TRIM - ATMOSPHERE / BROWNSTONE
4F2	INTERIOR TRIM - JET BLACK / KALAHARI
4JJ	INTERIOR TRIM - GIDEON/VY DK ATMOSPHERE
4SA	PACKAGE - SLT OPTION 1
4SB	PACKAGE - SLT OPTION 2
4SG	PACKAGE - AT4 OPTION 2
5A7	WHEEL SPARE - NONE
5JY	ACCESSORY - TONNEAU - RR COMPT - SOFT FOLDING
5LE	ACCESSORY - GARAGE DOOR OPENER
5SA	PACKAGE - DENALI OPTION 1
5SB	PACKAGE - DENALI OPTION 2
5VE	ACCESSORY - EXHAUST TIP - DESIGN 5
5VG	ACCESSORY - EXHAUST TIP - DESIGN 4
5VI	ACCESSORY - TIE DOWN RINGS - CARGO AREA
5WI	ACCESSORY - TIE DOWN RINGS - CARGO AREA, MOVEABLE
63G	ACCESSORY - TAILGATE ASSIST LIGHTING
65C	LABEL, WARNING - CALIFORNIA, PROP 65 COMPLIANT
6K5	GATE FUNCTION - POWER
6K5	GATE TYPE - PUBX END ENHANCED
6K5	IMAGE ADJUSTMENT - HITCH VIEW
6K5	INDICATOR - SMART TRAILER INTEGRATION
6K5	LAMP - CARGO
6K5	OPENER - GARAGE DOOR, UNIVERSAL
6K5	WINDOW RR - FULL WIDTH, SLIDING, POWER
6K5	SALES PACKAGE - CONVENIENCE II
6K9	ACCESSORY - HANGING BED DIVIDER BRACKET
77S	LABEL, REGULATORY - CALIFORNIA, SECTION 177 STATES
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

RPO	Description
A48	WINDOW RR - FULL WIDTH, SLIDING, POWER
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
AF6	CONTROL - SEAT, MASSAGE, DRIVER
AHE	BOLSTER DRVR - SEAT, POWER
AHH	BOLSTER PASS - SEAT, POWER
AKE	CONTROL - SEAT, MASSAGE, PASSENGER
AKO	WINDOW TYPE - PRIVACY
AKP	WINDOW TYPE - SOLAR ABSORBING
AL0	SENSOR INDICATOR - INFLATABLE RESTRAINT, FRT PASS/CHILD PRESENCE DETECTOR
ANM	SALES PACKAGE - FIRE AND RESCUE
ANQ	COVERING FLOOR - RUBBER
ANQ	DECAL - ALASKAN
ANQ	DECAL - PICK UP BOX - DELETE
ANQ	EQUIPMENT - SUPPLIER INSTALLED
ANQ	LAMP - FIVE, ROOF MARKER, TRUCK
ANQ	LINER - PUBX, SPRAY ON
ANQ	PROVISIONS - SNOW PLOW PREP
ANQ	TIRE ALL - LT275/65R20 E 126/123 S BW AT VAR 1
ANQ	TIRE ALL - LT275/65R20 E 126/123 S BW OOR VAR 1
ANQ	TIRE ALL - LT275/70R18 E 125/122 S BW AT VAR 1
ANQ	WHEEL - 18 X 8.0, J, ALUMINUM, DESIGN 2
ANQ	WHEEL - 20 X 8.5 - J - ALUMINUM - DESIGN 21
AQN	CONTROL - SEAT, POWER SHOULDER ADJUST, DRIVER

RPO	Description
AQQ	LOCK CONTROL, ENTRY - REMOTE ENTRY, EXTENDED RANGE (MY 09 AND FUTURE)
AQS	CONTROL - SEAT, POWER SHOULDER ADJUST, PASS
AU3	LOCK CONTROL - SIDE DR, ELEC
AVI	RESTRAINT PROVISIONS - ADJUSTABLE GUIDE LOOP
AVJ	LOCK CONTROL, ENTRY - REMOTE ENTRY, EXTENDED RANGE, PASSIVE ENTRY, FRONT DOORS
AVK	LUMBAR DRIVER - SEAT, POWER, 4 WAY
AVU	LUMBAR PASSENGER - SEAT, POWER, 4-WAY
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	INDICATOR - SMART TRAILER INTEGRATION
B26	PARK ASSIST - FRONT AND REAR
B26	REAR CROSS TRAFFIC - ALERT
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 AUXILIARY - CARGO BED
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

RPO	Description
B59	SALES PACKAGE - FUNCTIONAL PACKAGE
BG9	COVERING FLOOR - RUBBER
BHP	COVER - WINTER GRILLE
BKE	COVERING REAR - FLOOR MATS, FLOOR LINER CARPET INSERT
BKF	COVERING FRT - FLOOR MATS, FLOOR LINER CARPET INSERT
BPH	BRK APL CTRL FEATURE - HILL DESCENT, GEAR HOLD
BPH	CHASSIS PACKAGE - "OFF ROAD"
BPH	SALES PACKAGE - SKID PLATE, "OFF ROAD" SPORT
BPH	TIRE ALL - LT265/60R22 E 123/120S BW AT VAR 1
BPH	TIRE ALL - LT265/70R17 E 121/118 Q BW AT
BPH	TIRE ALL - LT275/65R20 E 126/123 S BW AT VAR 1
BPH	TIRE ALL - LT275/65R20 E 126/123 S BW OOR VAR 1
BPH	TIRE ALL - LT275/70R18 E 125/122 S BW AT VAR 1
BRS	STEPS, RUNNINGBOARD - SIDE, RETRACTABLE, POWER, BRIGHT
BTM	SWITCH - START, KEYLESS
BTV	REMOTE START - VEHICLE
BVQ	STEPS, RUNNINGBOARD - SIDE, TUBULAR, 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
CGO	COLLECTION GVW - COLLECTION GVW LESS THAN OR EQUAL TO 10,000 LBS
CJ2	HVAC SYSTEM - AIR CONDITIONER FRT, AUTO TEMP CONT, AUX TEMP CONT
CMD	PLANT CODE - FLINT, MI, USA (TRK)
CMT	BRK APL CTRL FEATURE - INTEGRATED TRAILER BRAKE
CMT	LINER - PUBX, SPRAY ON
CMT	PROVISIONS - SPECIAL EQUIPMENT, 5TH WHEEL/ GOOSENECK TRAILER HITCH PREP PACKAGE

RPO	Description
CMT	SALES PACKAGE - GOOSE NECK/5TH WHEEL PREP AND CAMERA
CTT	HITCH ASSIST - GUIDELINES
CWK	BUMPER FRT - COLOR
CWK	BUMPER RR - COLOR KEYED
CWK	HOOK - TOW
CWK	WHEEL - 20 X 8.5 - J - ALUMINUM - DESIGN 21
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	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
DBG	MIRROR O/S - MAN EXT, PWR ADJ, HEAT, MAN FOLD, TURN SIG, AUX CLR, FLAT DRVR/PASS, WFOV DRVR/PASS
DD8	MIRROR I/S R/V - LT SENSITIVE
DH6	MIRROR I/S FRT VAN - LH & RH, SUNSHADE, ILLUM
DLN	MIRROR O/S - LH & RH, ELEC REMOTE CONTROL, HEATER, MANUAL FOLD, FLAT/DRVR, FLAT/PASS
DNS	EQUIPMENT - SUPPLIER INSTALLED
DP6	MIRROR PROVISIONS - HOUSING, PAINTED
DP9	MIRROR PROVISIONS - HOUSING, CHROME
DRC	MIRROR I/S R/V - LT SENSITIVE, PARTIAL VIDEO DISPLAY
DRZ	MIRROR I/S R/V - LT SENSITIVE, FULL VIDEO DISPLAY
DUD	MIRROR O/S - LH & RH, WFOV, MANUAL, MAN FOLD, MAN EXT, FLAT/COVN DR/ PASS
DWI	MIRROR O/S - LH&RH,WFOV,MAN EXT,PWR FLD,HTD,TURN SIG,R/ CON,ELEC,AUX CARGO,AUX CLR,PERM LIGHT,FLAT LT SENS DR/PAS

RPO	Description
DZC	MIRROR O/S - LH&RH,WFOV,PWR EXT,PWR FOLD,HTD,TURN SID,R/CON MEM,AUX CARGO,AUX CLR,PERM LT,FLAT LT SENS DR/PAS
DZW	CHASSIS - DUAL REAR WHEEL, RIDE & HANDLING
E20	HANDLE O/S DOOR - CHROME
E63	BODY EQUIPMENT - FLEETSIDE PICK-UP BOX
EF7	COUNTRY - UNITED STATES OF AMERICA (USA)
F48	CHASSIS DRIVE LINE - ALL WHEEL DRIVE (AWD)/FOUR WHEEL DRIVE(4WD), DRIVER SELECT
F60	SPRING FRONT - HEAVY DUTY
FE9	CERTIFICATION - EMISSION, FEDERAL
FHS	VEHICLE FUEL - GASOLINE E85
FHX	VEHICLE FUEL - DIESEL B20
FJW	VEHICLE FUEL - GASOLINE E15
FPF	EQUIPMENT - EMISSION-DIESEL DPF MANUAL REGENERATION
G1W	PRIMARY COLOR - EXTERIOR, ABALONE WHITE TRICOAT(140X)
G6M	PRIMARY COLOR - EXTERIOR, RUSH MET-1 (618G)
G7C	PRIMARY COLOR - EXTERIOR, PULL ME OVER RED SOLID (130X)
G80	AXLE POSITRACTION - LIMITED SLIP
G94	AXLE - RR ELECTRONIC LOCKING DIFFERENTIAL, DRIVER SELECT
GA4	TRIM PACKAGE - AT4 X
GAZ	PRIMARY COLOR - EXTERIOR, SUMMIT WHITE (G) 8624
GBA	PRIMARY COLOR - EXTERIOR, BLACK (G) 8555
GFF	TRIM PACKAGE - BASE
GFG	TRIM PACKAGE - AT4
GFI	TRIM PACKAGE - SLE
GFU	TRIM PACKAGE - SLT
GFW	TRIM PACKAGE - DENALI
GFY	TRIM PACKAGE - DENALI ULTIMATE
GNO	PRIMARY COLOR - EXTERIOR, BARB WIRE MET -1 (633D)
GNT	PRIMARY COLOR - EXTERIOR, RADIANT RED TINT MET-1 (170H)
GT4	AXLE REAR - 3.73 RATIO
GTY	AXLE - WIDE TRACK
GU6	AXLE REAR - 3.42 RATIO
GXD	PRIMARY COLOR - EXTERIOR, SHARKSKIN MET-1 (130H)

RPO	Description
GXP	PRIMARY COLOR - EXTERIOR, COSMONAUT MET-1 (136H)
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
H24	INTERIOR TRIM CONFIG - LEATHER, LEVEL 4, ATMOSPHERE/BROWNSTONE
H2G	INTERIOR TRIM CONFIG - VINYL, LEVEL 1, JET BLACK
H2X	INTERIOR TRIM CONFIG - LEATHER, LEVEL 4, JET BLACK
H40	INTERIOR TRIM CONFIG - LEATHER, LEVEL 10, JET BLACK/VECCHIO BASE SAUVAGE PRINT
H9J	INTERIOR TRIM CONFIG - LEATHER, LEVEL 9, JET BLACK/CERAMIC WHITE
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
HVD	INTERIOR TRIM CONFIG - LEATHER, LEVEL 2, JET BLACK/KALAHARI
HVE	INTERIOR TRIM CONFIG - LEATHER, LEVEL 2, GIDEON/VY DK ATMOSPHERE
ICY	ACCESSORY - ARCTIC HOSE - POWER STEERING
IOK	RADIO - INFOTAINMENT SYSTEM - 3.X MID/HIGH HMI,ENHANCED CONNECTIVITY 2.0, VOICE RECOGNITION
IOR	RADIO - INFOTAINMENT SYSTEM - 3.X LOW HMI, MIDLEVEL CONNECTIVITY 3.X
J25	ENGINEERING YEAR - 2025
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
K1O	FILTER MONITOR - ENGINE AIR
K34	CRUISE CONTROL - AUTOMATIC, ELECTRONIC
K40	ENGINE BRAKE - EXHAUST
K47	AIR CLEANER - HIGH CAPACITY
K4C	CHARGER - INDUCTIVE PORTABLE WIRELESS DEVICE

RPO	Description
K4Z	BATTERY - LN3, AGM, 12V, 70AH, 700 CCA, AUX
KA1	HEATER SEAT FRT - DRVR & PASS
KA6	HEATER SEAT - REAR
KC4	COOLING SYSTEM - ENG OIL
KC5	RECEPTACLE - ELECTRICAL, ACCESSORY
KC9	RECEPTACLE PUBX - ELECTRICAL, 110 VOLT
KGU	MODULE - UPFITTER, SERIAL DATA GATEWAY
KHF	GENERATOR - 170 AMP AND 220 AMP, DUAL
KI3	STEERING WHEEL HEAT - AUTOMATIC
KI4	RECEPTACLE I/P - ELECTRICAL, 110 VOLT
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
L5P	ENGINE - DIESEL, 8 CYL, 6.6L, DI, V8, TURBO, DURAMAX, GEN 5, VAR. 1
L8T	ENGINE - GAS, 8 CYL, 6.6L, SIDI, VVT, CAST IRON
M1F	POWER TAKE OFF - RR PTO
MAH	MARKETING AREA - US, PUERTO RICO/ USVI
MGM	TRANSMISSION - AUTO 10 SPD, 10L1000, GRX, GEN 1, VAR 1
MGU	TRANSMISSION - AUTO 10 SPD, 10L1000, GRX, GEN 2, VAR 2
MKM	TRANSMISSION - AUTO 10 SPD, RWD 4.54 1ST, 2.86 2ND, 2.06 3RD, 1.71 4TH, 1.48 5TH, 1.26 6TH, 1.00 7TH, 10L1001
N06	STEERING COLUMN LOCK - ELECTRICAL
N2L	FUEL TANK - REAR TANK 40 GAL (151L)
N2N	FUEL TANK - DUAL TANK, FRONT TANK 23.5 GAL (89L) REAR TANK 40 GAL (151L)
N33	STEERING COLUMN - TILT TYPE
N37	STEERING COLUMN - TILT, TELESCOPING
N57	STEERING WHEEL - SYNTHETIC, 4 SPOKE, THIN, ROUND
N79	WHEEL SPARE - 18 X 8.0, J, STEEL, DESIGN 2
NB5	EXHAUST SYSTEM - SINGLE
NE1	CERTIFICATION - EMISSION, GEOGRAPH-ICALLY RESTRICTED REGISTRATION
NHT	BRK APL CTRL FEATURE - INTEGRATED TRAILER BRAKE

RPO	Description
NHT	ENGINE - DIESEL, 8 CYL, 6.6L, DI, V8, TURBO, DURAMAX, GEN 5, VAR. 1
NHT	PROVISIONS - SPECIAL EQUIPMENT, 5TH WHEEL/ GOOSENECK TRAILER HITCH PREP PACKAGE
NHT	TRAILER PROVISIONS - SPECIAL EQUIPMENT, H.D.
NHT	WHEEL - 18 X 6.5, J, ALUMINUM, DESIGN 1
NHT	PERFORMANCE PACKAGE - ENHANCED TOWING
NK5	STEERING WHEEL - STANDARD
NP5	STEERING WHEEL - LEATHER WRAPPED
NQF	TRANSFER CASE - ELECTRIC SHIFT CONT, TWO SPEED, ALUM
NQH	TRANSFER CASE - ACTIVE, TWO SPEED, SWITCH ACTIVATED, ALUM
NRW	EMISSION SYSTEM - CALIFORNIA, SULEV170
NTB	EMISSION SYSTEM - FEDERAL, TIER 3
NU9	EMISSION SYSTEM - CALIFORNIA, ULEV200
NUM	EMISSION SYSTEM - CALIFORNIA, LEV3 MDV 10-14K GVW
NV8	STEERING - POWER, MAGNETIC SPEED, VARIABLE ASSIST
NZ4	WHEEL SPARE - 17 X 7.5, J, STEEL, DESIGN 2
NZZ	SALES PACKAGE - SKID PLATE, "OFF ROAD" SPORT
P03	COVER, WHEEL - VAR 3
P06	TRIM DISCS - WHEEL
PPW	PHONE PROJECTION - PHONE PROJECTION WIRELESS
PTO	ENGINE CONTROL - POWER TAKE OFF (PTO) CONTROLS
PTT	TRAILER TIRE PRESSUR - MANUAL LEARN
PXD	WHEEL - 18 X 8.0, J, ALUMINUM, DESIGN 25
PYN	WHEEL - 17 X 7.5, J, STEEL, DESIGN 7
PYQ	WHEEL - 17 X 7.5, J, ALUMINUM, DESIGN 7
PYT	WHEEL - 18 X 8.0, J, STEEL, DESIGN 2
PYW	WHEEL - 17 X 6.5, J, STEEL, DESIGN 2
PZ8	IMAGE ADJUSTMENT - HITCH VIEW
PZG	PLATE - SKID FRT
PZN	PLATE - SKID TRANSFER CASE
PZZ	PLATE - FRT UNDERBODY, SKID
Q21	WHEEL - 18 X 6.5, J, ALUMINUM, DESIGN 1

RPO	Description
Q7F	WHEEL - 20 X 8.5, J, ALUMINUM, DESIGN 5
Q7H	WHEEL - 20 X 8.5, J, ALUMINUM, DESIGN 7
Q7J	WHEEL - 20 X 8.5, J, ALUMINUM, DESIGN 8
Q7N	WHEEL - 20 X 8.5, J, ALUMINUM, DESIGN 10
Q7Q	WHEEL - 20 X 8.5, J, ALUMINUM, DESIGN 12
QF6	TIRE ALL - LT275/70R18 E 125/122 S BW AT VAR 1
QF9	TIRE ALL - LT275/65R20 E 126/123 S BW AT VAR 1
QFG	TIRE ALL - LT275/65R20 E 126/123 S BW OOR VAR 1
QHQ	TIRE ALL - LT245/75R17 E 121/118R BW ALS
QHY	TIRE ALL - LT235/80R18 E 121/118R BW AT
QK1	GATE TYPE - PUBX END STANDARD
QK2	GATE TYPE - PUBX END ENHANCED
QMG	TIRE ALL - LT305/70R18 E 126/123 R BW OOR VAR 1
QNB	WHEEL SPARE - 18 X 9.0, J, ALUMINUM, DESIGN 1
QNN	WHEEL SPARE - 18 X 9.0, J, ALUMINUM, DESIGN 3
QNZ	TIRE SPARE - LT305/70R18 E 126/123 R BW OOR VAR 1
QT2	GATE FUNCTION - MANUAL
QT5	GATE FUNCTION - MANUAL ASSIST POWER RELEASE
QT6	GATE FUNCTION - POWER
QXT	TIRE ALL - LT265/70R17 E 121/118 Q BW AT
QZT	TIRE ALL - LT235/80R17 E 120/117R BW AT
R7O	SEAT RR - SPLIT, FOLDING, BASE STORAGE
R88	ACCESSORY - ILLUMINATED EMBLEM - EXTERIOR - DESIGN 2
RBJ	WHEEL - 18 X 9.0, J, ALUMINUM, DESIGN 3
RCS	WHEEL - 18 X 9.0, J, ALUMINUM, DESIGN 1
RDI	ACCESSORY - KEYLESS ENTRY
REM	ACCESSORY TIRE - TIRE ALL - LT275/65R20 E 126/123 S BW AT VAR 1
RIA	ACCESSORY - FLOOR LINER - CONTOURED
RIK	ACCESSORY - BADGE - EXTERIOR, PACKAGE, DESIGN 1
RN2	ACCESSORY - ILLUMINATED EMBLEM - EXTERIOR - DESIGN 1

RPO	Description
RN6	WHEEL - 22 X 8.5, J, STEEL, DESIGN 1
RSI	ACCESSORY - CARGO AREA ORGANIZER - RECONFIGURABLE
RSR	OCCUPANT DETECT SYS - REAR SEAT, DOOR ACTIVATED
RVG	ACCESSORY - ADAPTER - TRAILER HARNESS
RVQ	ACCESSORY - ASSIST STEPS - TUBULAR - OVAL - BLACK
RVS	ACCESSORY - ASSIST STEPS - TUBULAR - ROUND - BLACK
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
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
S1H	ACCESSORY - OFF-ROAD RECOVERY KIT
S1O	ACCESSORY - CONTAINER - LOCKABLE STORAGE - INTERIOR
S3I	ACCESSORY - LAMPS - PERIMETER ILLUMINATION
S41	ACCESSORY - LINER - WHEEL HOUSE
S47	ACCESSORY - LUG NUTS
S4K	ACCESSORY - CARGO STRAP - FLEXIBLE ORGANIZER - RR COMPT
S4W	ACCESSORY - LUG NUT AND WHEEL LOCK KIT DESIGN 2
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
SAK	ACCESSORY - WHEEL - 22 X 8.5 - J - ALUMINUM DESIGN 1
SAM	ACCESSORY - SKID PLATES
SAX	ACCESSORY - SPEAKER KIT - LEVEL 1

RPO	Description
SAY	ACCESSORY - WHEEL - 22 X 8.5 - J - ALUMINUM DESIGN 2
SBL	ACCESSORY - WHEEL - 22 X 8.5 - J - ALUMINUM DESIGN 3
SBZ	ACCESSORY - SPORT PEDAL KIT
SD5	ACCESSORY - TIRE PRESSURE MONITOR
SDE	ACCESSORY - TRAILER HITCH - REMOVABLE
SDI	ACCESSORY - TRIANGLE - REFLECTIVE
SDT	ACCESSORY - TRAILOR HITCH - HOLDER
SF6	ACCESSORY - WHEEL FLARES - ALTERNATE DESIGN - PAINTED
SFE	ACCESSORY - WHEEL LOCKS
SFJ	ACCESSORY - WINDOW SHADES - REFLECTIVE
SFZ	ACCESSORY - EMBLEM - EXTERIOR - DESIGN 1
SHH	ACCESSORY - WHEEL - 20 X 8.5 - J - ALUMINUM - DESIGN 1
SIE	ACCESSORY - PUBX TIERED STORAGE
SIL	ACCESSORY - RSE - PORTABLE MEDIA CONNECTIVITY PKG - W/INTEGRATED POWER
SJ9	ACCESSORY - GRILLE / GRILLE INSERTS - ALTERNATE FINISH 1
SK1	WHEEL SPARE - 18 X 6.5, J, STEEL, DESIGN 1
SKP	WHEEL SPARE - 17 X 6.5, J, STEEL, DESIGN 1
SKX	ACCESSORY - WHEEL - 20 X 8.5 - J - ALUMINUM - DESIGN 7
SL7	ACCESSORY - PUBX LADDER / UTILITY RACK STANCHIONS
SNO	ACCESSORY - HITCH COMPLETION PKG - GOOSENECK
SNR	SEAT RR - SPLIT, FOLDING, DELUXE STORAGE
SPY	ACCESSORY - LUG NUTS - ALT FINISH
SPZ	ACCESSORY - WHEEL LOCKS - ALT FINISH
SQ9	ACCESSORY - WHEEL - 20 X 8.5 - J - ALUMINUM - DESIGN 8
SRW	CHASSIS - SINGLE REAR WHEEL, RIDE & HANDLING
T3U	LAMP FRT FOG - FRT FOG
T4L	HEADLAMPS - LED
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

RPO	Description
TPU	ACCESSORY - CAMERA PKG - TRAILERING UPGRADE
TQ5	HEADLAMP HIGH BEAM - AUTO CONTROL
TRG	VISION TRAILER - INSIDE VIEW, REAR VIEW
TRO	ACCESSORY - CAMERA PKG - TRAILERING AUX MOUNTED
TUF	ORNAMENTATION - EMBLEM, "TEXAS EDITION"
U01	LAMP - FIVE, ROOF MARKER, TRUCK
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
UBD	RECPT USB FLR CNSL F - 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
UF3	SWITCH - HIGH IDLE
UFG	REAR CROSS TRAFFIC - ALERT
UFL	LANE ACTIVE SAFETY - DEPARTURE WARNING
UG1	OPENER - GARAGE DOOR, UNIVERSAL
UGA	HOOK - TOW, RED
UH5	INDICATOR - SEAT BELT WARNING, REAR SEAT
UHY	COLL IMMINENT BRK - LOW SPEED, VEH FWD MOVEMENT, BRAKE PREFILL, INTEGRATED BRAKE ASSIST

RPO	Description
UIR	INFOTAINMENT DISPLAY - NORMALLY BLACK COLOR (TFT), 7", WVGA 800X480P
UJM	TIRE PRESS INDICATOR - MANUAL LEARN
UJN	TIRE PRESS INDICATOR - AUTO LEARN
UK3	CONTROL - STEERING WHEEL, ACCESSORY
UKC	SIDE ACTIVE SAFETY - OBSTACLE DETECTION ENHANCED
UKJ	PED DETECTION FRT - BASIC, PEDESTRIANS
UKV	SIDE ACTIVE SAFETY - OBSTACLE DETECTION ENHANCED, EXTENDED TRAILER VIEW
ULV	ACCESSORY - FLOOR LINER - CONTOURED - ALT DESIGN 2
ULV	BUMPER - RR, VAR 1
ULV	BUMPER FRT - SPORT
ULV	GATE TYPE - PUBX END ENHANCED
ULV	HEATER ENG - BLOCK
ULV	PLATE - FRT UNDERBODY, SKID
ULV	PLATE - SKID FRT
ULV	PLATE - SKID TRANSFER CASE
ULV	WHEEL - 18 X 9.0, J, ALUMINUM, DESIGN 3
ULV	WHEEL - 18 X 9.0, J, ALUMINUM, DESIGN 4
ULV	WHEEL SPARE - 18 X 9.0, J, ALUMINUM, DESIGN 1
ULV	WHEEL SPARE - 18 X 9.0, J, ALUMINUM, DESIGN 4
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
UQS	SPEAKER SYSTEM - PREMIUM AUDIO, BRANDED SURROUND AMPLIFIER
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
UVO	VISION AUXILIARY - CARGO BED BASE

RPO	Description
UY2	WIRING PROVISIONS - CAMPER & 5TH WHEEL TRAILER
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
VBR	ACCESSORY - PUBX RUBBER MAT
VDA	ACCESSORY - CAMPER & 5TH WHEEL TRAILER CONNECTION
VGC	PROTECTOR - FILM, PAINT ETCH PREVENTIVE
VHU	BUMPER FRT - SPORT
VJH	BUMPER RR - CHROME
VK3	LICENSE PLATE FRONT - FRT MOUNTING PKG
VKU	ACCESSORY - MIRROR CAPS - CHROME
VKY	ACCESSORY - DOOR HANDLES - ALTERNATE FINISH - CHROME
VLQ	HOOK - TOW, CHROME
VMK	ACCESSORY - CARGO MANAGEMENT SYSTEM RAILS
VOZ	ACCESSORY - TONNEAU - RR COMPT - HARD FOLDING - ALT DESIGN
VPB	ACCESSORY - TONNEAU - RR COMPT - VINYL W/ INTEGRAL CROSSBOW SUPPORTS
VQH	BUMPER - RR, VAR 1
VQK	ACCESSORY - SPLASH GUARDS - CUSTOM MOLDED
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
VT5	BUMPER RR - COLOR KEYED
VT7	OWNERS MANUAL - ENGLISH LANGUAGE
VTA	ACCESSORY - EXHAUST TIP - DESIGN 2
VTI	SHUTTERS - FRONT GRILLE, ACTIVE, UPR
VTP	ACCESSORY - ASSIST STEPS - COMMERCIAL
VUK	ACCESSORY - TAILGATE LINER - PUBX
VV4	COMMUNICATION EQUIP - MOBILE INTERNET CONNECTIVITY
VW9	ACCESSORY - CENTER CAP - WHEEL - DESIGN 3

RPO	Description
VXH	ACCESSORY - ASSIST STEPS - TUBULAR - CHROME - OVAL
VXJ	ACCESSORY - ASSIST STEPS - TUBULAR - CHROME - ROUND
VXT	VEHICLE TYPE - INCOMPLETE
VXW	ACCESSORY - ASSIST STEPS - MOLDED
VYU	PROVISIONS - SNOW PLOW PREP
VZX	ACCESSORY - PUBX BEDLINER
W0F	ACCESSORY - GRILLE COVER - WINTER PROTECTION
W2D	ACCESSORY - CARGO NET
WBL	BUMPER FRT - COLOR
WBL	BUMPER RR - COLOR KEYED
WBL	EQUIPMENT - SUPPLIER INSTALLED
WBL	HANDLE O/S DOOR - CHROME
WBL	HEADLAMPS - LED
WBL	INDICATOR - SMART TRAILER INTEGRATION
WBL	LINER - PUBX, SPRAY ON
WBL	MIRROR PROVISIONS - HOUSING, CHROME
WBL	TIRE ALL - LT275/65R20 E 126/123 S BW AT VAR 1
WBL	VISION TRAILER - INSIDE VIEW, REAR VIEW
WBL	WHEEL - 20 X 8.5, J, ALUMINUM, DESIGN 20
WBL	WHEEL - 20 X 8.5, J, ALUMINUM, DESIGN 25
WJP	ACCESSORY - WHEEL - 22 X 8.5 - J - ALUMINUM DESIGN 3
WJP	BUMPER FRT - COLOR
WJP	BUMPER RR - COLOR KEYED
WJP	HANDLE O/S DOOR - BODY COLOR
WJP	INDICATOR - SMART TRAILER INTEGRATION
WJP	MIRROR PROVISIONS - HOUSING, PAINTED
WJP	PRIMARY COLOR - EXTERIOR, BLACK (G) 8555
WJP	STEPS, RUNNINGBOARD - SIDE, RETRACTABLE, POWER, BLACK
WJP	TIRE ALL - LT265/60R22 E 123/120S BW AT VAR 1
WJP	TIRE ALL - LT275/65R20 E 126/123 S BW AT VAR 1
WJP	TIRE ALL - LT275/65R20 E 126/123 S BW OOR VAR 1
WJP	VISION TRAILER - INSIDE VIEW, REAR VIEW

RPO	Description
WJP	WHEEL - 18 X 8.0, J, ALUMINUM, DESIGN 2
WJP	WHEEL - 20 X 8.5 - J - ALUMINUM - DESIGN 21
WLD	WINDOW CONTROL - REMOTE EXPRESS DOWN, ALL WINDOWS
WMZ	VIN MODEL YEAR - 2025
WPC	CRUISE CONTROL - AUTOMATIC, ADAPTIVE, WITH STOP/GO
WPC	GATE FUNCTION - POWER
WPC	HEATER SEAT - REAR
WPC	OPENER - GARAGE DOOR, UNIVERSAL
WPC	WINDOW RR - FULL WIDTH, SLIDING, POWER
WPC	SALES PACKAGE - COMFORT AND CONVENIENCE
WPK	BUMPER FRT - COLOR
WPK	BUMPER RR - COLOR KEYED
WPK	EQUIPMENT - SUPPLIER INSTALLED
WPK	HANDLE O/S DOOR - BODY COLOR
WPK	HEADLAMPS - LED
WPK	HOOK - TOW, RED
WPK	INDICATOR - SMART TRAILER INTEGRATION
WPK	LINER - PUBX, SPRAY ON
WPK	MIRROR PROVISIONS - HOUSING, PAINTED
WPK	STEPS, RUNNINGBOARD - SIDE, RETRACTABLE, POWER, BLACK
WPK	TIRE ALL - LT265/60R22 E 123/120S BW AT VAR 1
WPK	TIRE ALL - LT275/65R20 E 126/123 S BW AT VAR 1
WPK	TIRE ALL - LT275/65R20 E 126/123 S BW OOR VAR 1
WPK	TIRE ALL - LT275/70R18 E 125/122 S BW AT VAR 1
WPK	VISION TRAILER - INSIDE VIEW, REAR VIEW
WPK	WHEEL - 18 X 8.0, J, ALUMINUM, DESIGN 2
WPK	WHEEL - 20 X 8.5 - J - ALUMINUM - DESIGN 21
WPQ	EQUIPMENT - SUPPLIER INSTALLED
WPQ	LINER - PUBX, SPRAY ON
WPQ	LINER - RR WHEELHOUSE
X31	BRK APL CTRL FEATURE - HILL DESCENT, GEAR HOLD
X31	CHASSIS PACKAGE - "OFF ROAD"
X31	SALES PACKAGE - SKID PLATE, "OFF ROAD" SPORT

RPO	Description
X31	TIRE ALL - LT265/70R17 E 121/118 Q BW AT
X31	TIRE ALL - LT275/65R20 E 126/123 S BW AT VAR 1
X31	TIRE ALL - LT275/70R18 E 125/122 S BW AT VAR 1
X31	APPEARANCE PACKAGE - GMC "X31 OFF ROAD"
XGC	ACCESSORY TIRE - TIRE ALL-LT265/60R22 E 123/120S BW AT
XGD	TIRE ALL - LT265/60R22 E 123/120S BW AT VAR 1
YF5	CERTIFICATION - EMISSION, CALIFORNIA
Z6A	PROVISIONS - SPECIAL EQUIPMENT, 5TH WHEEL/ GOOSENECK TRAILER HITCH PREP PACKAGE
Z71	CHASSIS PACKAGE - "OFF ROAD"
Z82	TRAILER PROVISIONS - SPECIAL EQUIPMENT, H.D.
Z85	CHASSIS PACKAGE - INCREASED CAPACITY
Z88	MARKET BRAND - GMC
ZAE	TIRE SPARE - LT235/80R18 E 121/118R BW AT
ZHQ	TIRE SPARE - LT245/75R17 E 121/118 R BW ALS
ZL3	ADJUSTER DRIVER SEAT - 8WAY, PWR RECLINE, PWR FORE/AFT, PWR HEIGHT, PWR TILT
ZL3	BRK APL CTRL FEATURE - INTEGRATED TRAILER BRAKE
ZL3	CHARGER - INDUCTIVE PORTABLE WIRELESS DEVICE
ZL3	CONSOLE - FRT COMPT, FLOOR, CUSTOM
ZL3	DEFOGGER - RR WINDOW, ELECTRIC
ZL3	GATE FUNCTION - MANUAL ASSIST POWER RELEASE
ZL3	GATE FUNCTION - POWER
ZL3	GATE TYPE - PUBX END ENHANCED
ZL3	GATE TYPE - PUBX END STANDARD
ZL3	HEATER - SEAT, VENTED, FRT
ZL3	HVAC SYSTEM - AIR CONDITIONER FRT, AUTO TEMP CONT, AUX TEMP CONT
ZL3	LAMP - CARGO
ZL3	LAMP - FIVE, ROOF MARKER, TRUCK
ZL3	LAMP FRT FOG - FRT FOG
ZL3	MIRROR O/S - LH & RH, ELEC REMOTE CONTROL, HEATER, MANUAL FOLD, FLAT/DRVR, FLAT/PASS
ZL3	MIRROR O/S - LH&RH,WFOV,MAN EXT,PWR FLD,HTD,TURN SIG,R/ CON,ELEC,AUX CARGO,AUX CLR,PERM LIGHT,FLAT LT SENS DR/PAS

RPO	Description
ZL3	MIRROR O/S - MAN EXT, PWR ADJ, HEAT, MAN FOLD, TURN SIG, AUX CLR, FLAT DRVR/PASS, WFOV DRVR/PASS
ZL3	RECEPTACLE I/P - ELECTRICAL, 110 VOLT
ZL3	RECEPTACLE PUBX - ELECTRICAL, 110 VOLT
ZL3	RECPT USB ARMREST - DUAL, CHARGE, DATA
ZL3	RECPT USB FLR CNSL R - DUAL, CHARGE
ZL3	REMOTE START - VEHICLE
ZL3	SEAT - FRT BKT
ZL3	SPEAKER SYSTEM - PREMIUM AUDIO, BRANDED AMPLIFIER
ZL3	STEERING COLUMN - TILT, TELESCOPING
ZL3	WINDOW REG DRVR DR - POWER OPERATED, EXPRESS UP/DOWN
ZL3	WINDOW REG PASS DR - POWER OPERATED,EXPRESS DOWN
ZL3	WINDOW TYPE - PRIVACY
ZL3	SALES PACKAGE - CONVENIENCE
ZLQ	GATE FUNCTION - MANUAL ASSIST POWER RELEASE
ZLQ	MIRROR O/S - LH & RH, ELEC REMOTE CONTROL, HEATER, MANUAL FOLD, FLAT/DRVR, FLAT/PASS
ZLQ	MIRROR O/S - LH&RH,WFOV,MAN EXT,PWR FLD,HTD,TURN SIG,R/CON,ELEC,AUX CARGO,AUX CLR,PERM LIGHT,FLAT LT SENS DR/PAS
ZLQ	MIRROR O/S - MAN EXT, PWR ADJ, HEAT, MAN FOLD, TURN SIG, AUX CLR, FLAT DRVR/PASS, WFOV DRVR/PASS
ZLQ	WINDOW REG DRVR DR - POWER OPERATED, EXPRESS UP/DOWN
ZLQ	WINDOW REG PASS DR - POWER OPERATED,EXPRESS DOWN
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
ZXT	TIRE SPARE - LT265/70R17/E BW TL
ZYG	TIRE SPARE - LT275/70R18 E 125/122 S BW AT VAR 1
ZZT	TIRE SPARE - LT235/80R17 E 120/117 R BW AT

Section 1

Body Systems

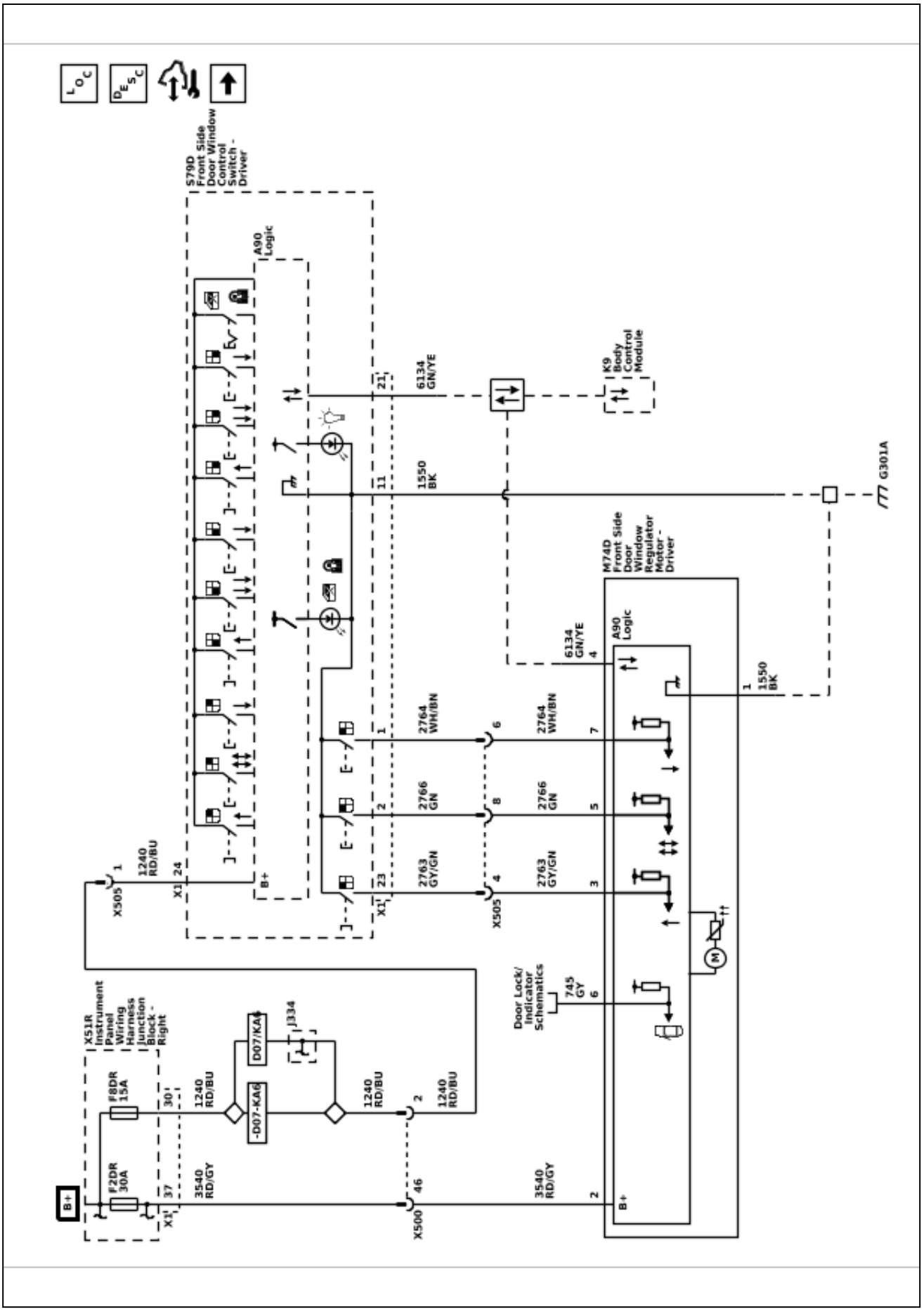
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Body Systems

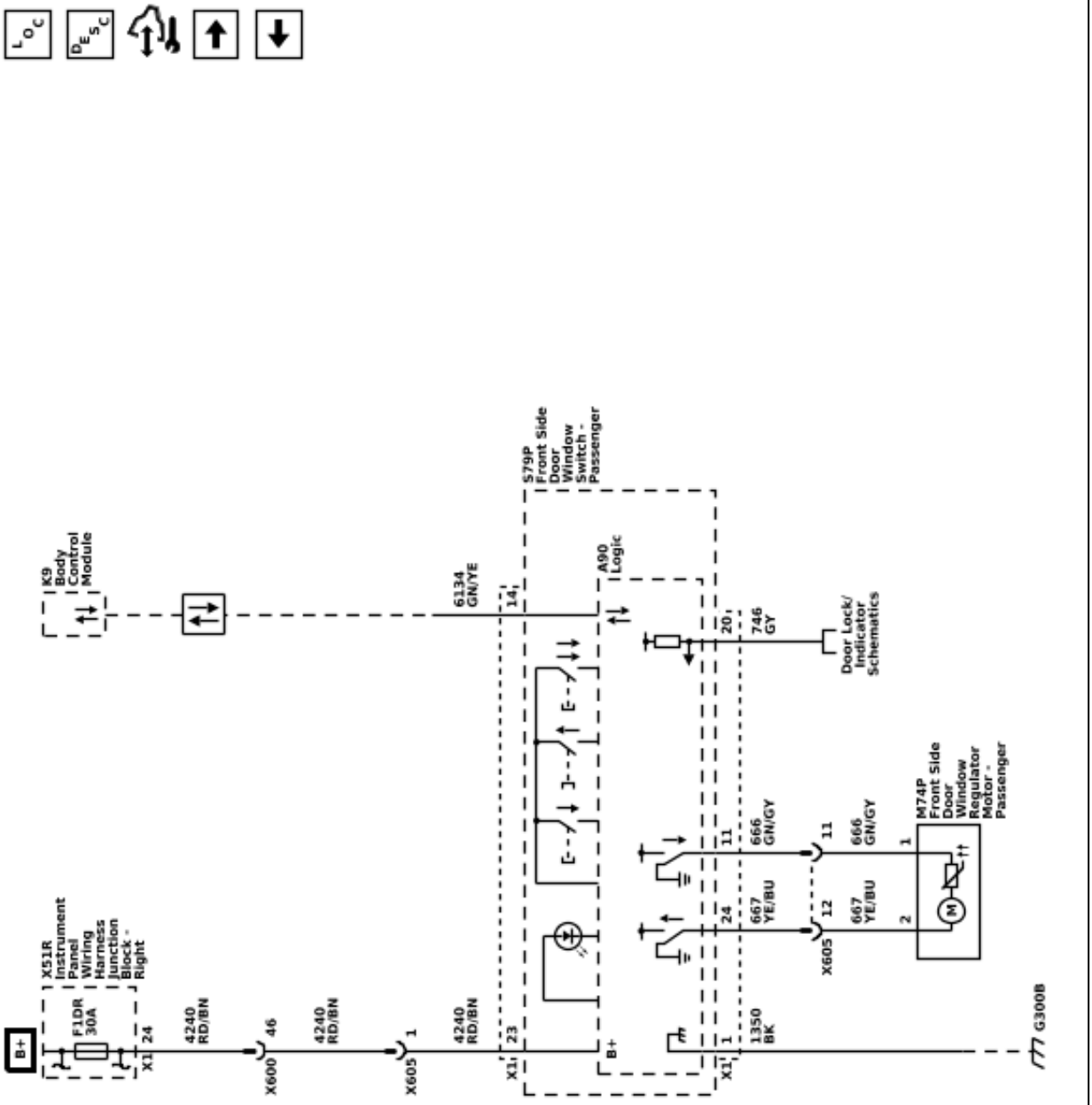
Fixed and Moveable Windows

Schematic and Routing Diagrams

Moveable Window Schematics (Driver Window (AXG))

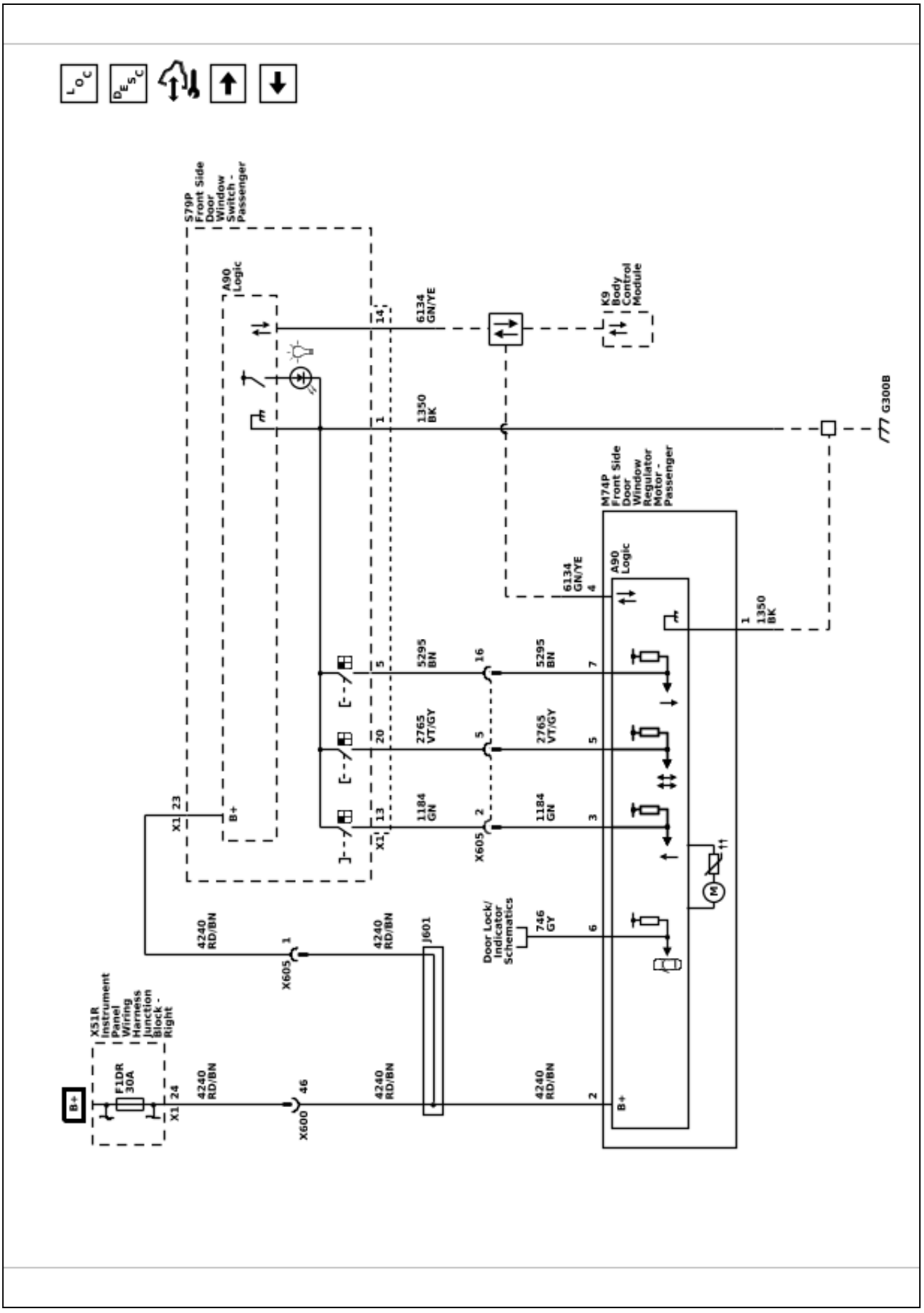


Moveable Window Schematics (Passenger Window (AED))

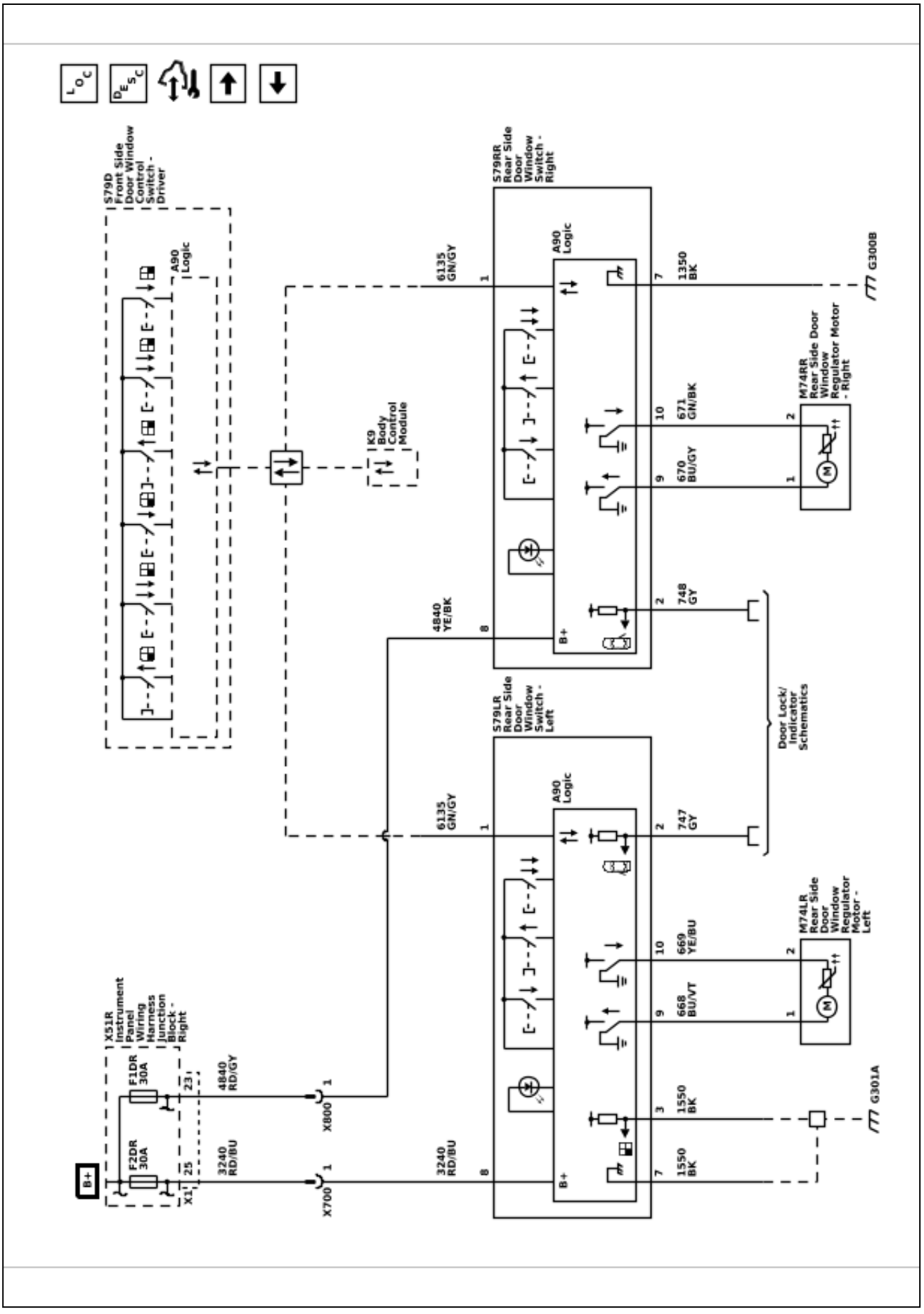


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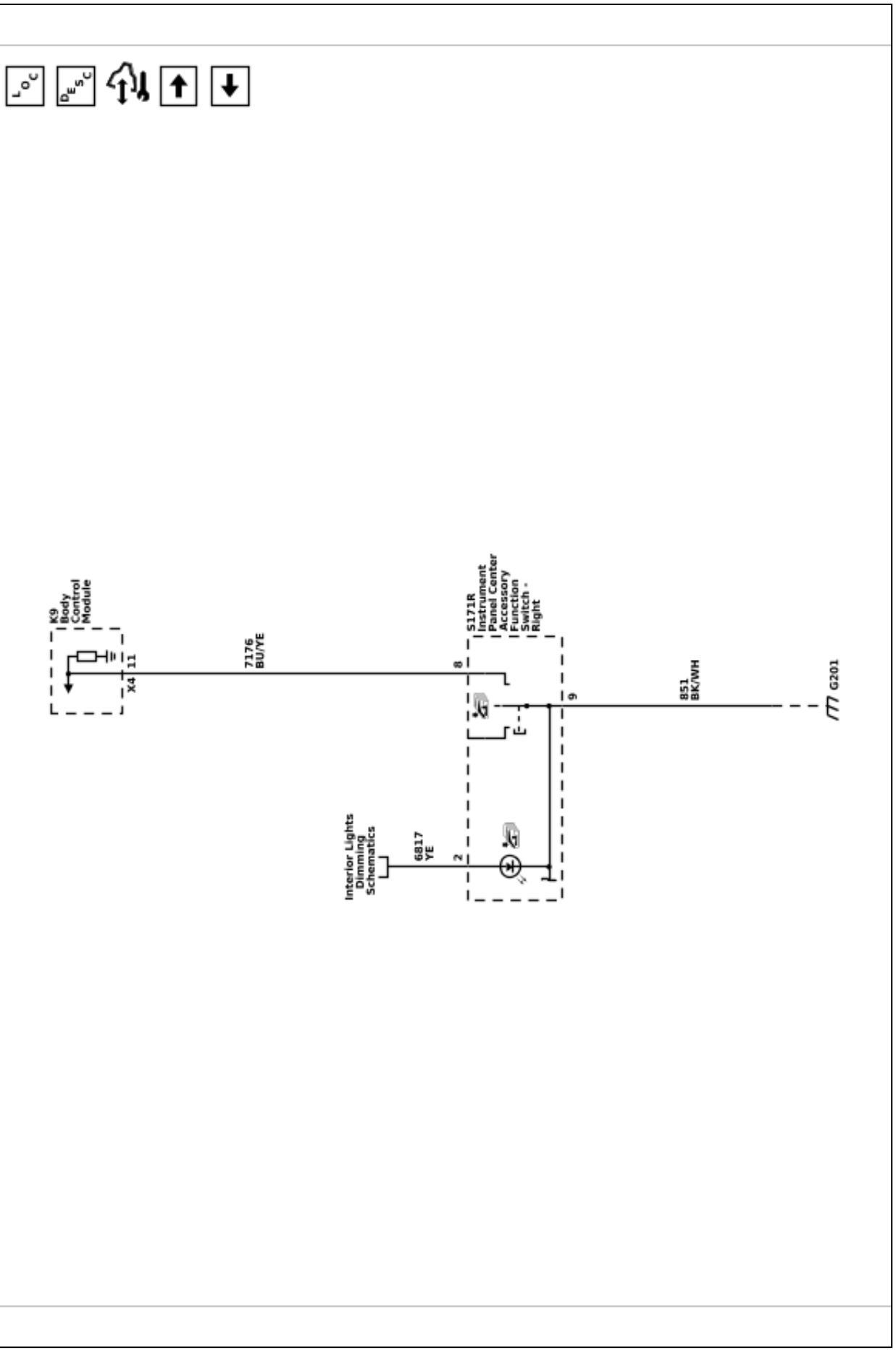
Moveable Window Schematics (Passenger Window (AEF))



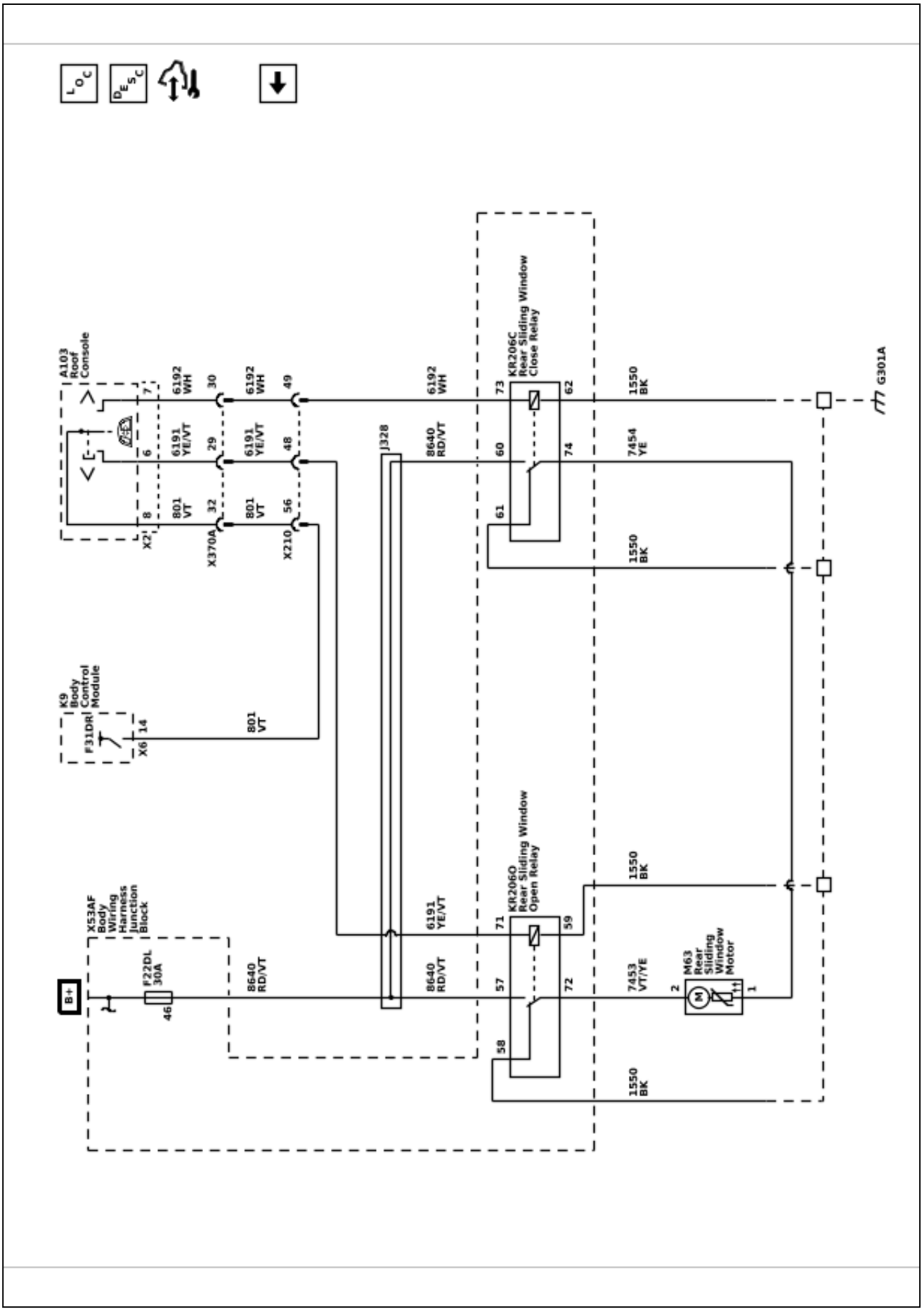
Moveable Window Schematics (Rear Windows (AEQ))



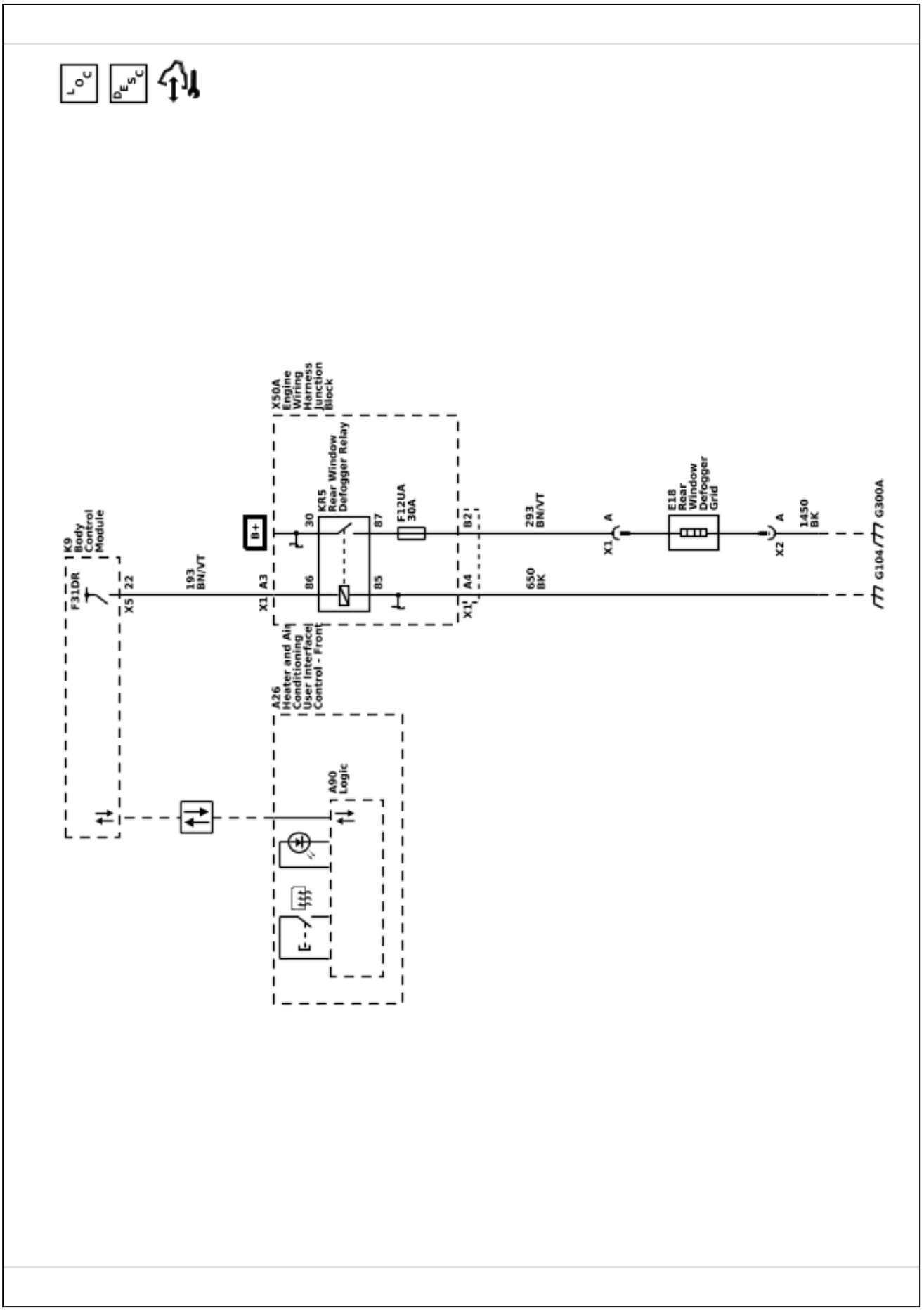
Moveable Window Schematics (Global Window Express Down Switch - In Right IP Accessory Function Switch (WLD))



Moveable Window Schematics (Rear Sliding Window (A48))



Defogger Schematics (Defogger)



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.

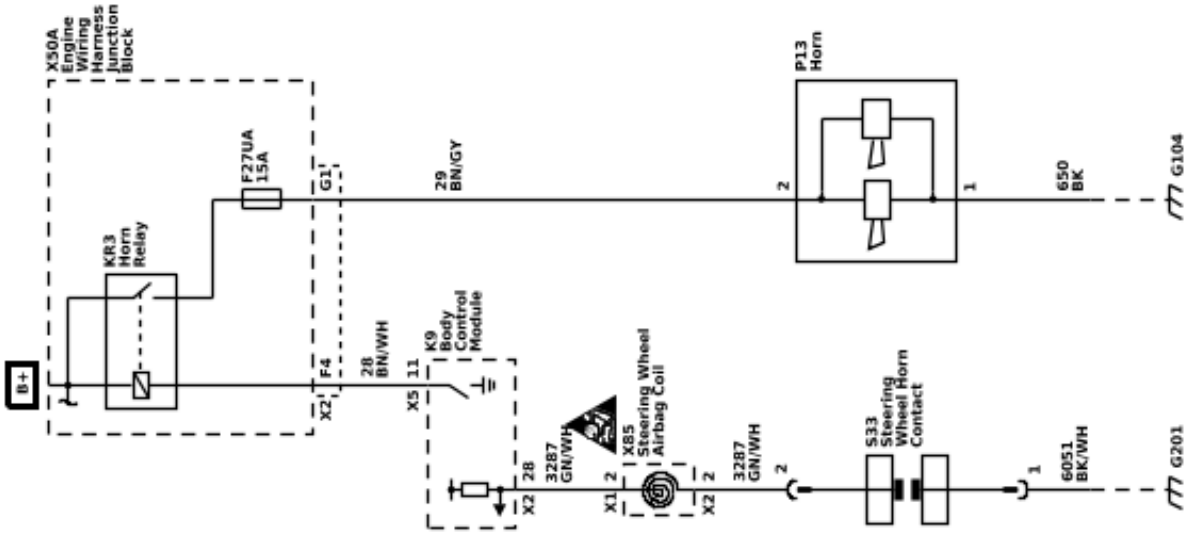
When the rear heated rear window switch is pressed and the engine is running, the rear window defogger grid will activate and will turn off automatically depending upon the vehicle speed (refer to owner's manual for rear window defogger operation cycles)

Horns and Pedestrian Alerts

Schematic and Routing Diagrams

6530202

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**.
  - 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**.
  - When the OnStar® system is used to sound the horns if equipped—For further information, refer to **OnStar Description and Operation**.

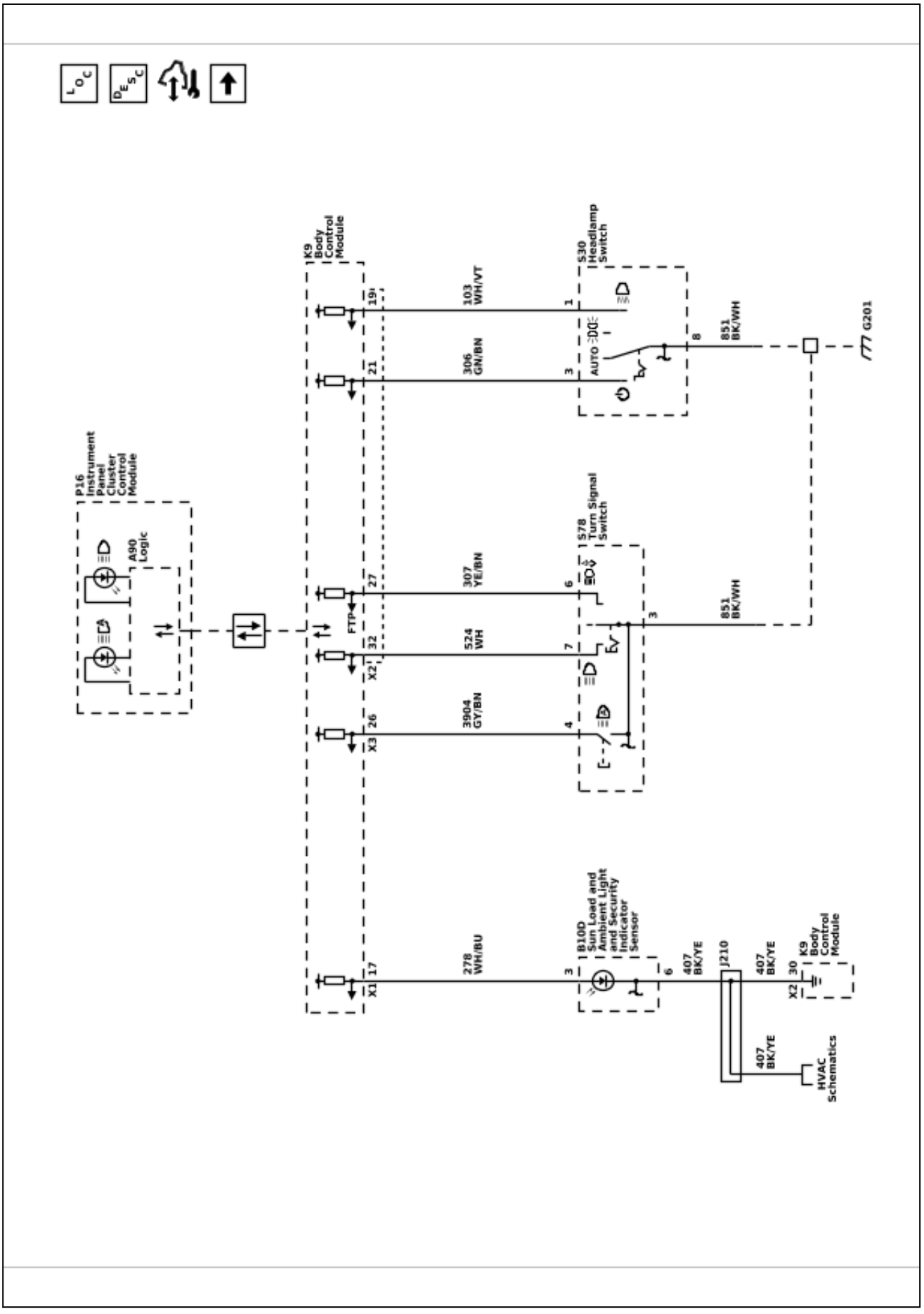
Circuit Operation

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.

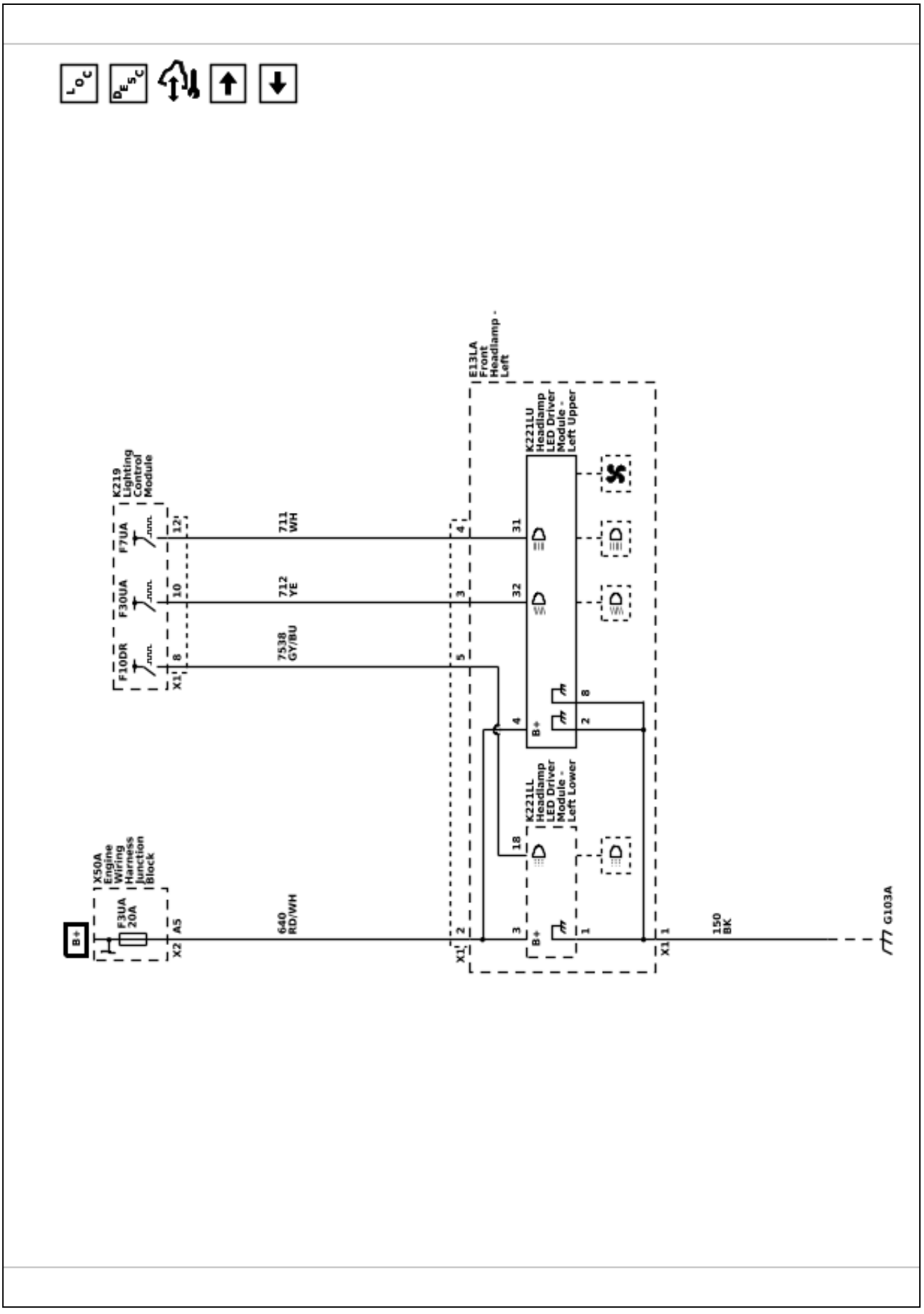
Lighting

Schematic and Routing Diagrams

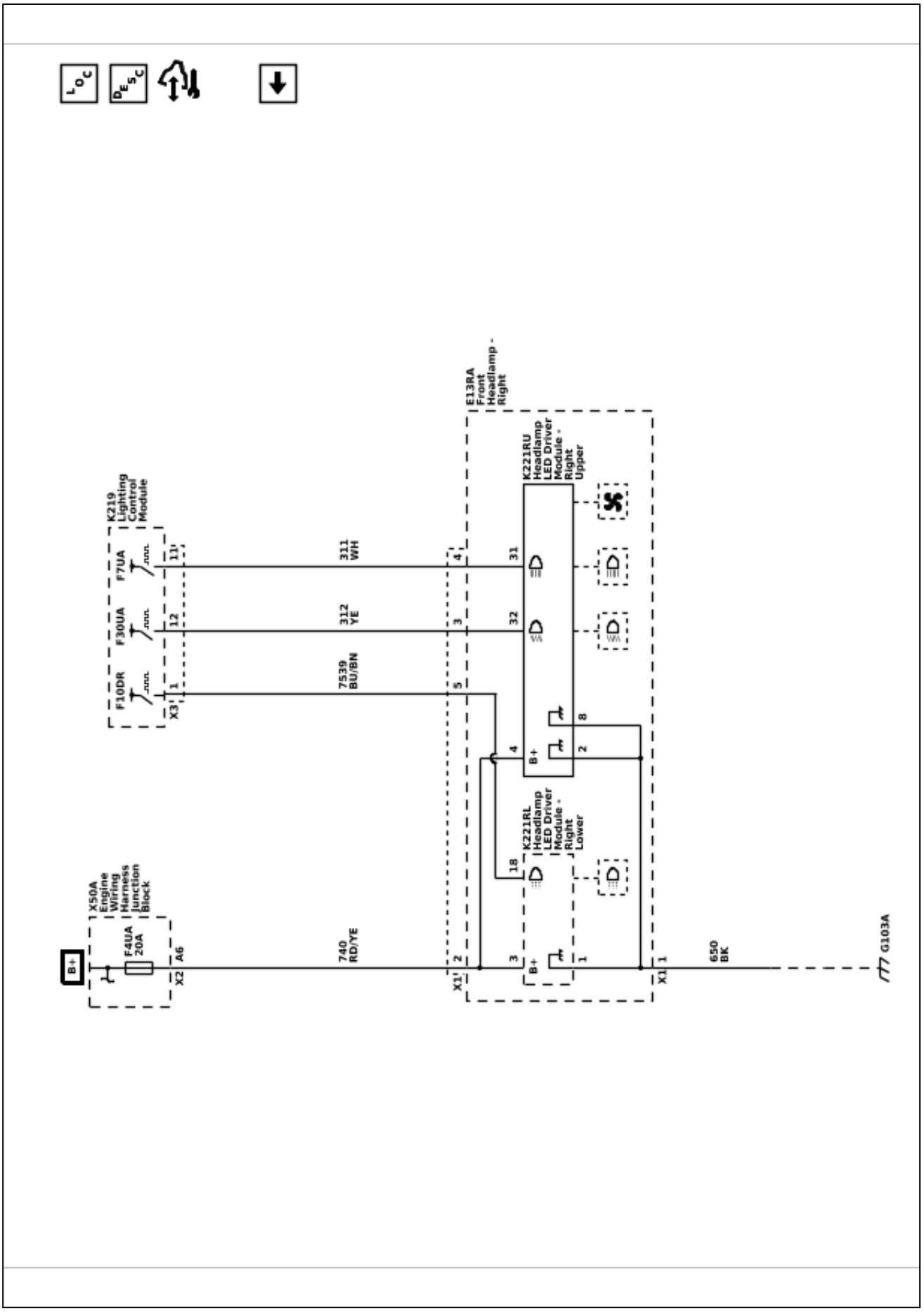
Headlights/Daytime Running Lights (DRL) Schematics (Controls and Indicators)



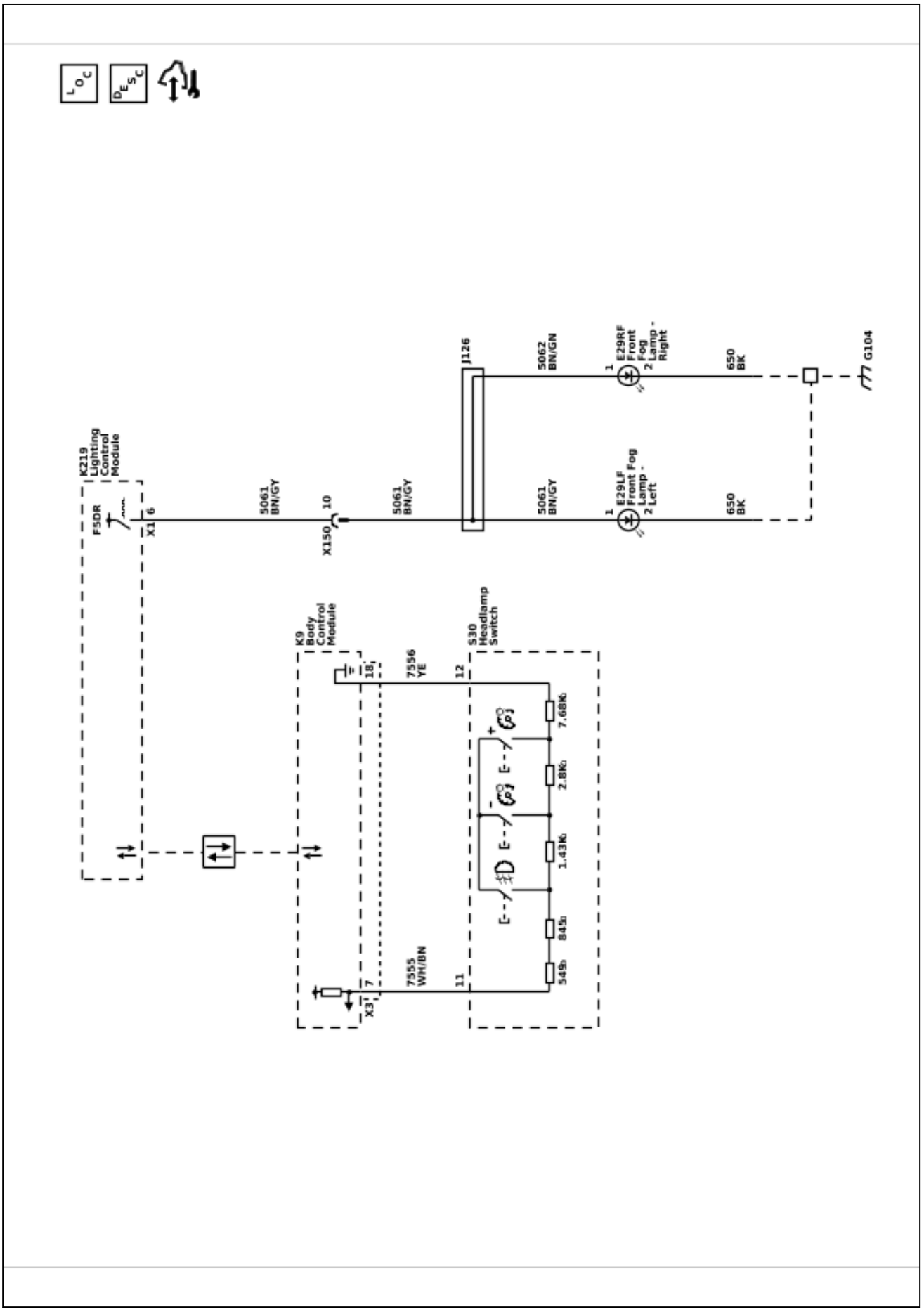
Headlights/Daytime Running Lights (DRL) Schematics (Headlamps and Daytime Running Lamps - Left)



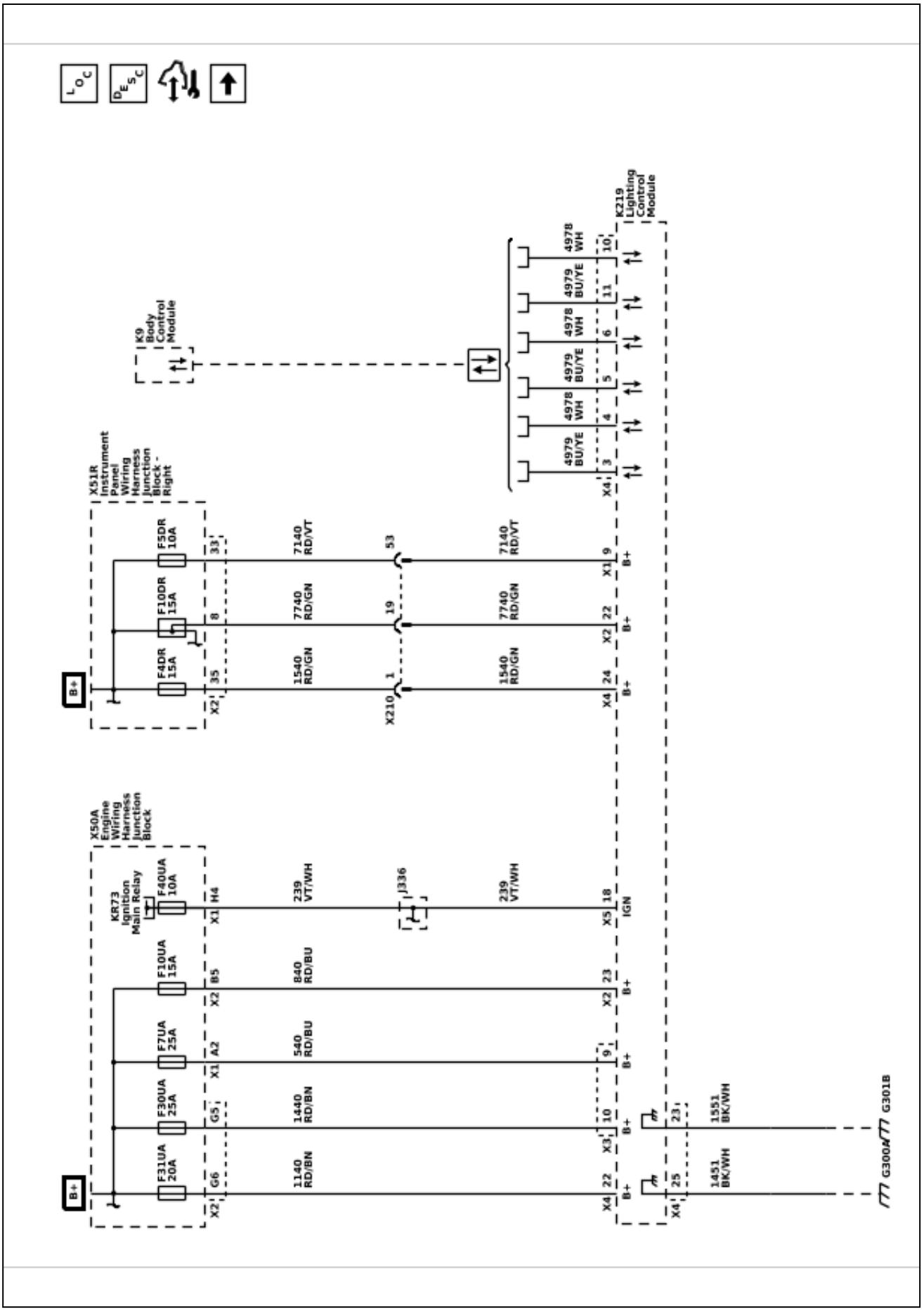
Headlights/Daytime Running Lights (DRL) Schematics (Headlamps and Daytime Running Lamps - Right)



Fog Lights Schematics (Fog Lamps (T3U))

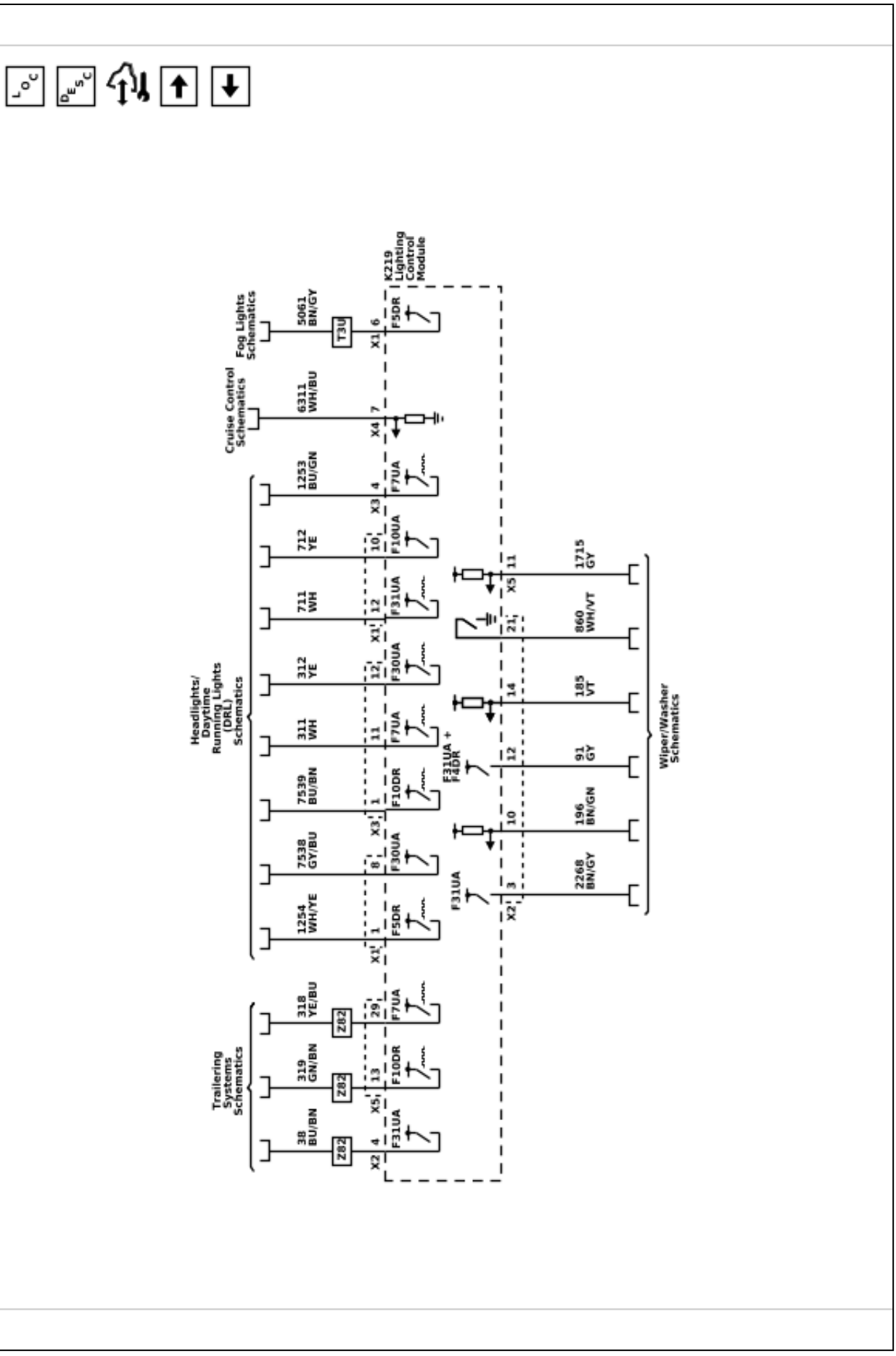


Exterior Lights Schematics (Lighting Control Module Power, Ground, and Serial Data)

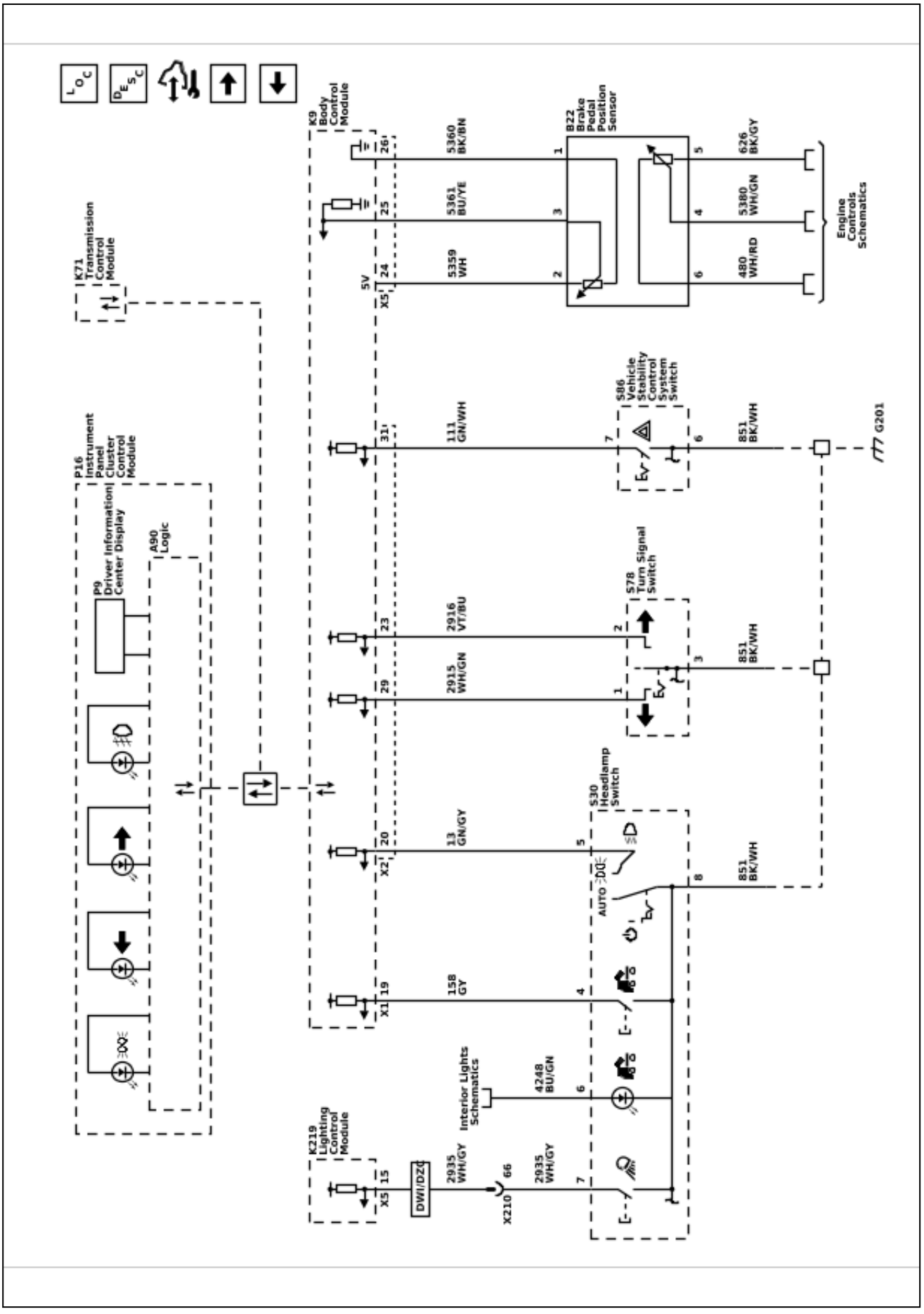


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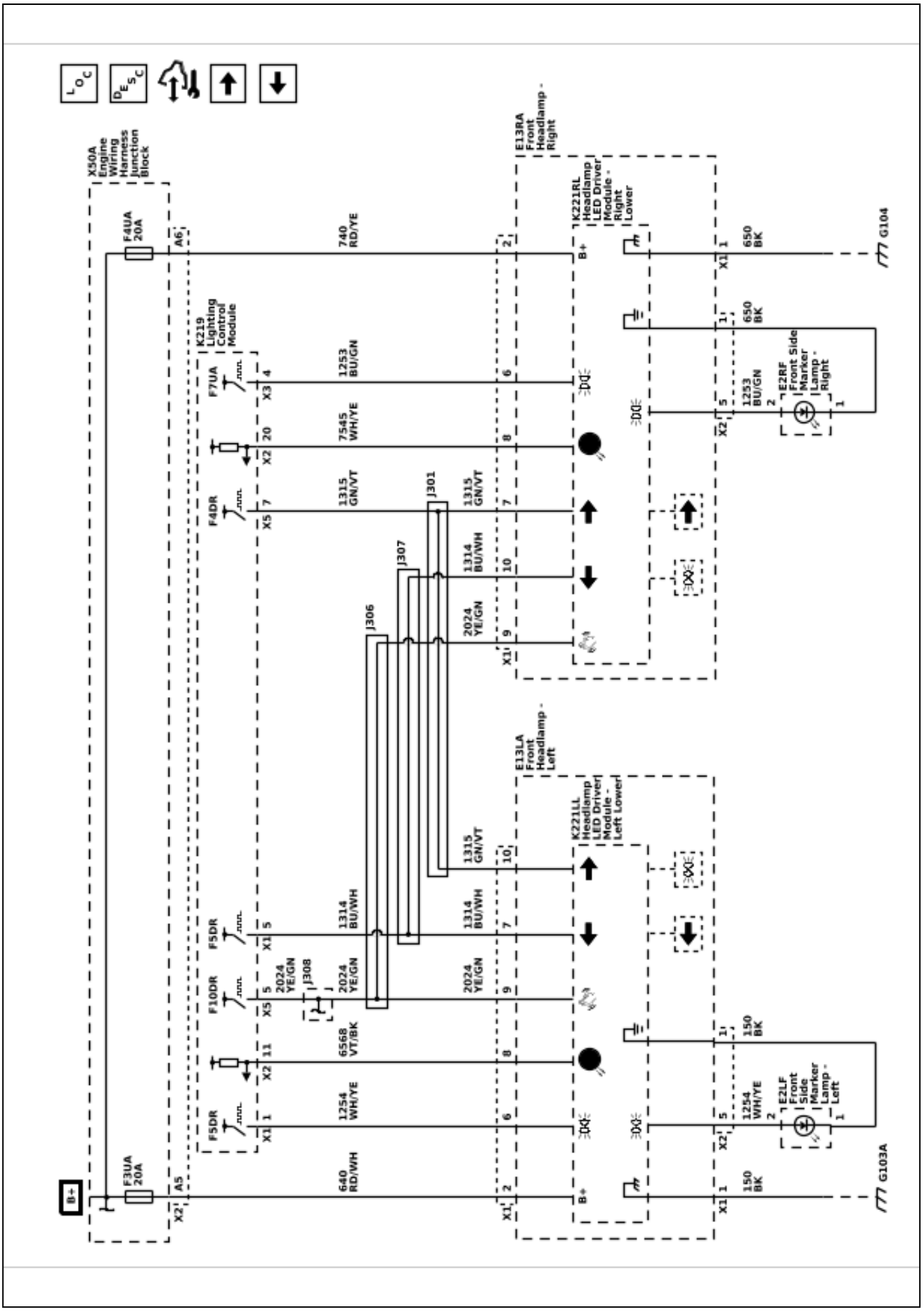
Exterior Lights Schematics (Lighting Control Module Subsystem References)



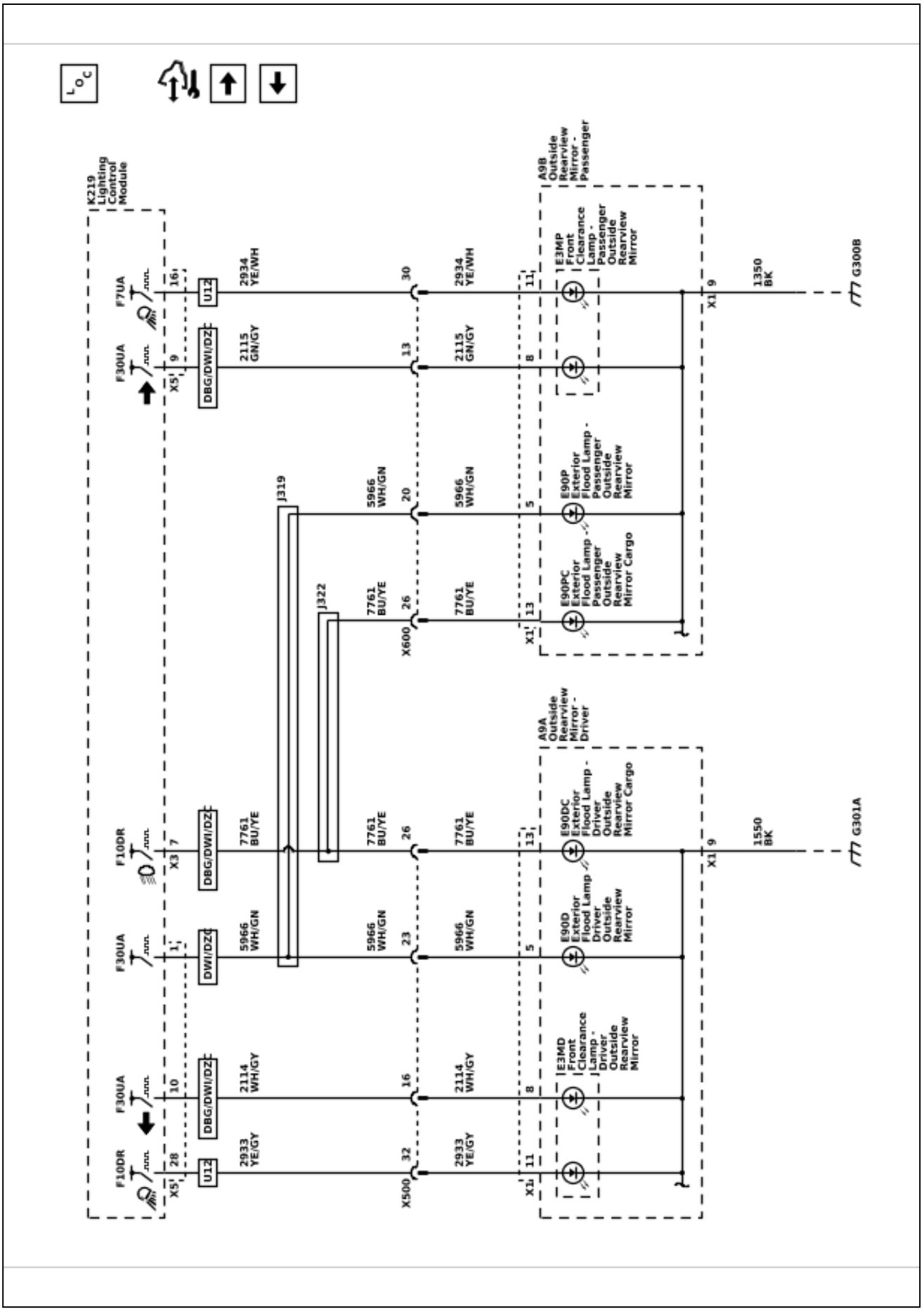
Exterior Lights Schematics (Controls and Indictors)



Exterior Lights Schematics (Front Turn Signals, Park Lamps, and Side Marker Lamps)

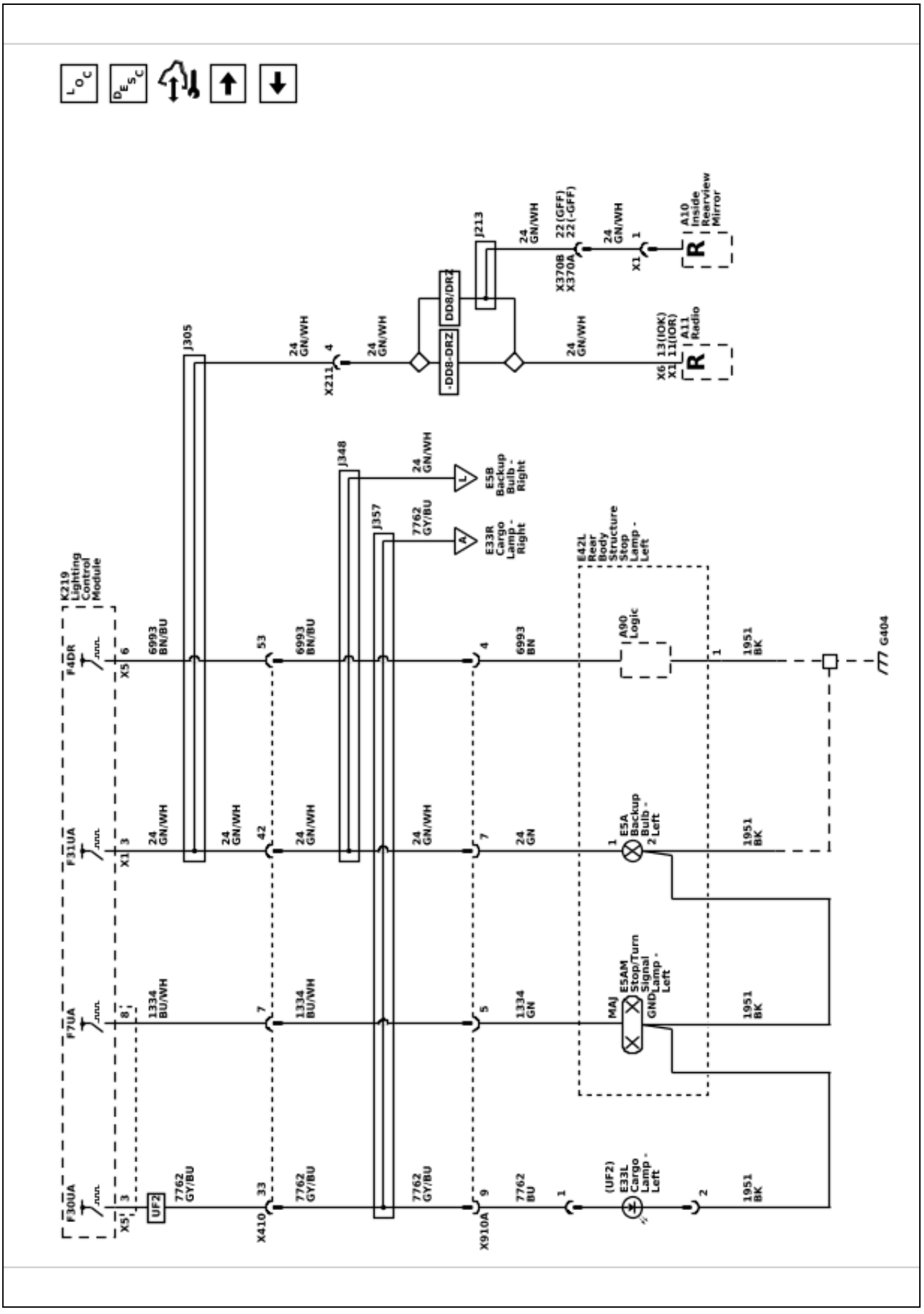


Exterior Lights Schematics (Outside Rearview Mirror Task, Turn, Approach, and Flood Lights (DBG / DWI / DZC))

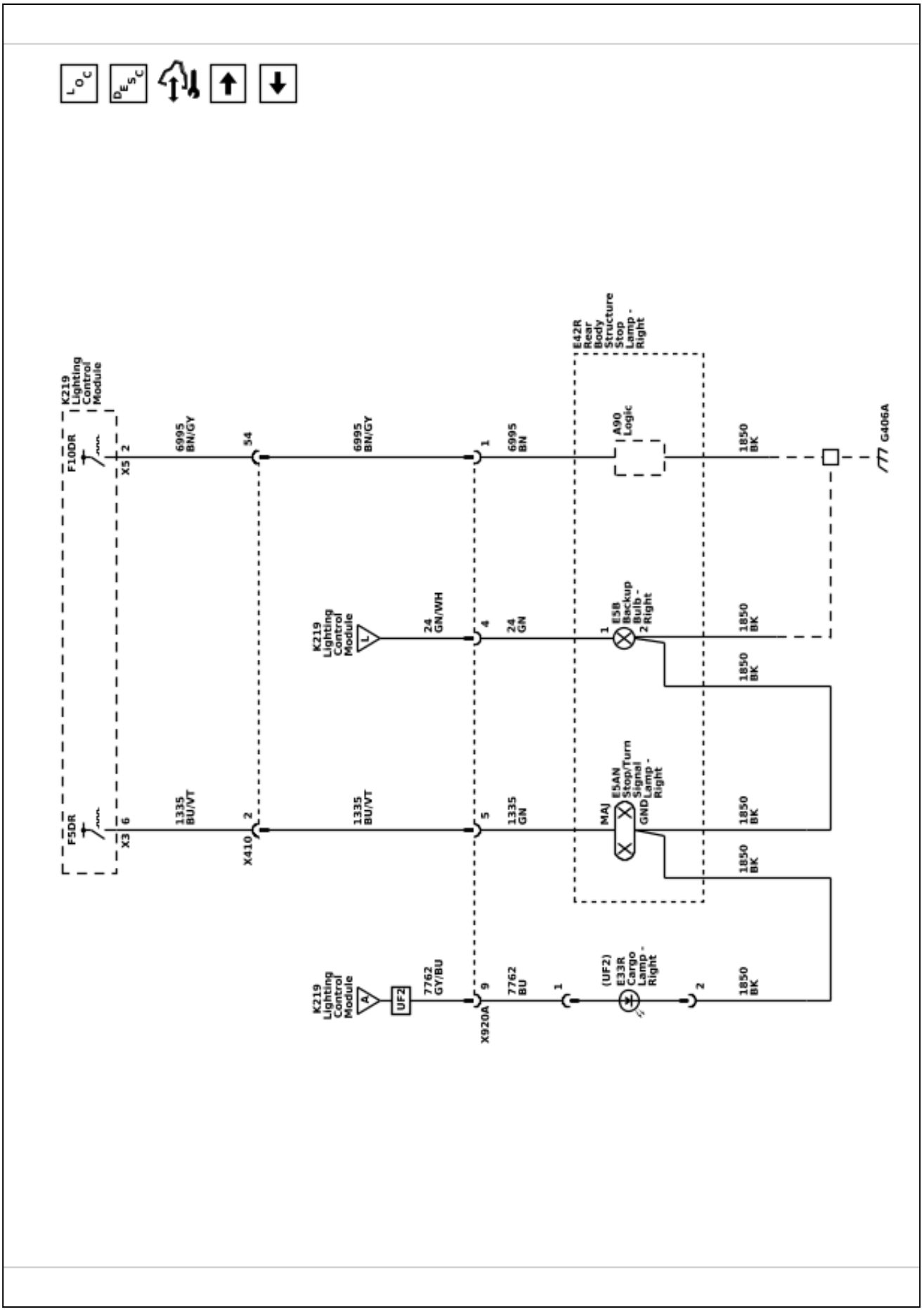


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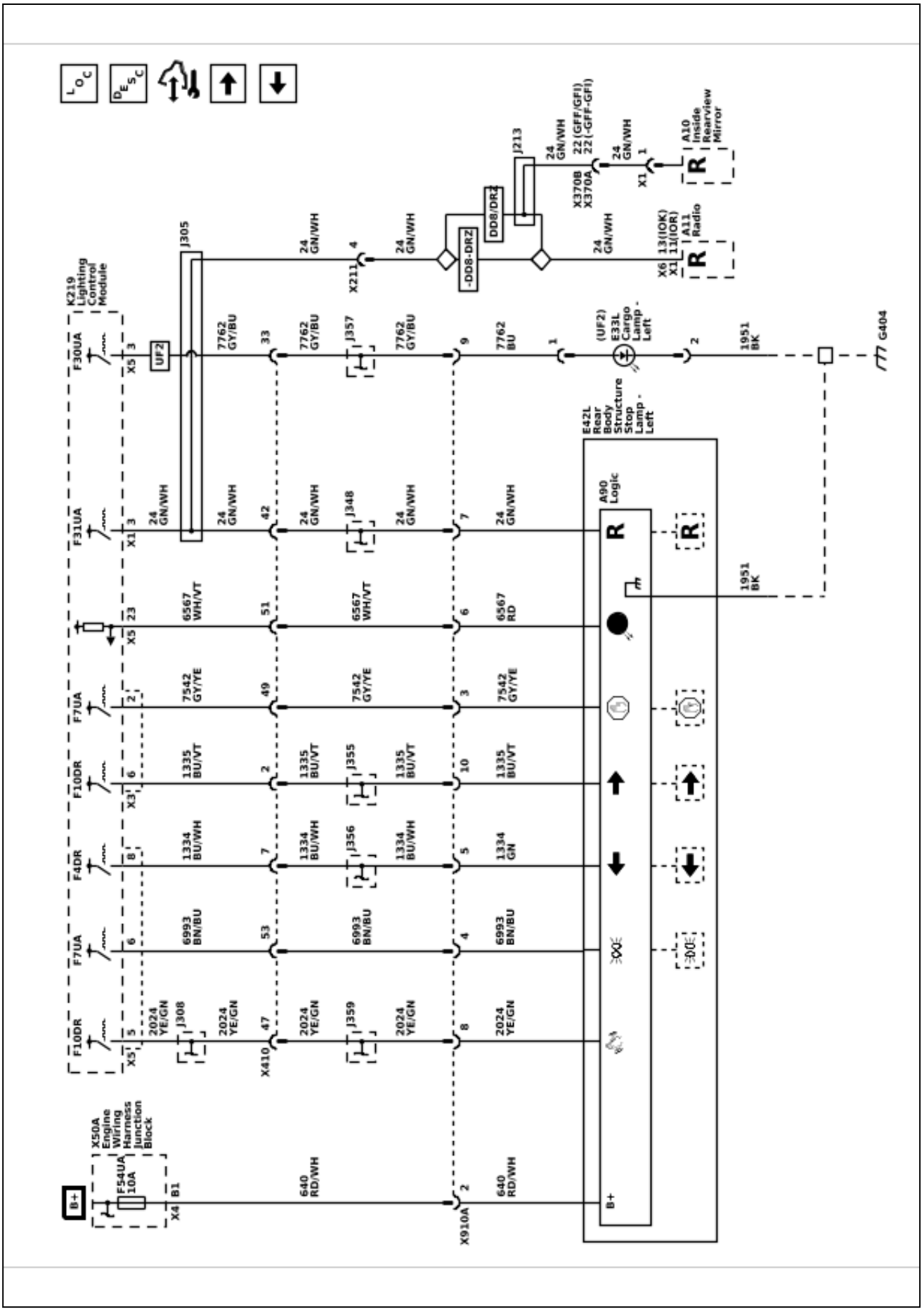
Exterior Lights Schematics (Tail Lamp Assembly - Left ((GFF / GFI)))



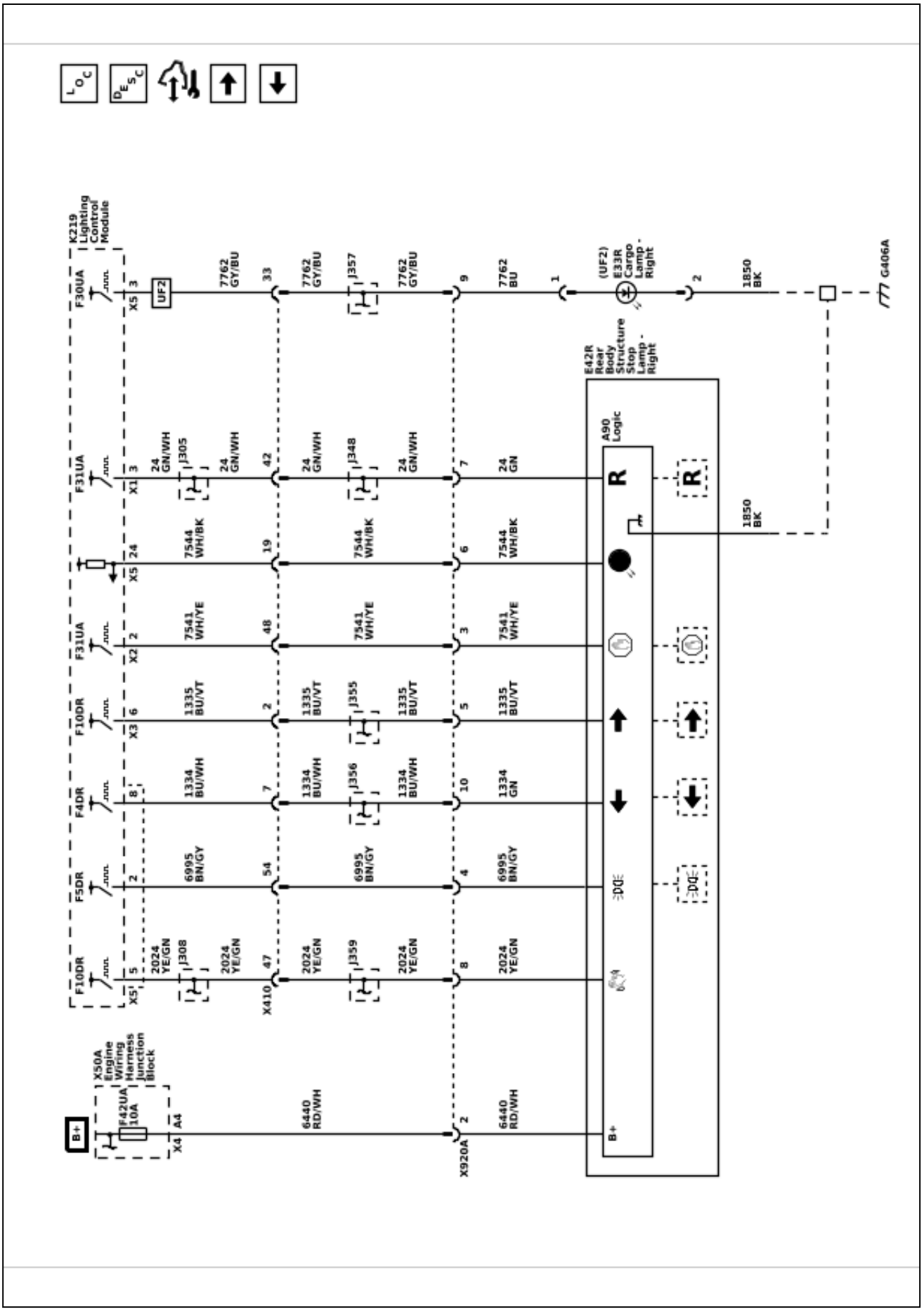
Exterior Lights Schematics (Tail Lamp Assembly - Right ((GFF / GFI)))



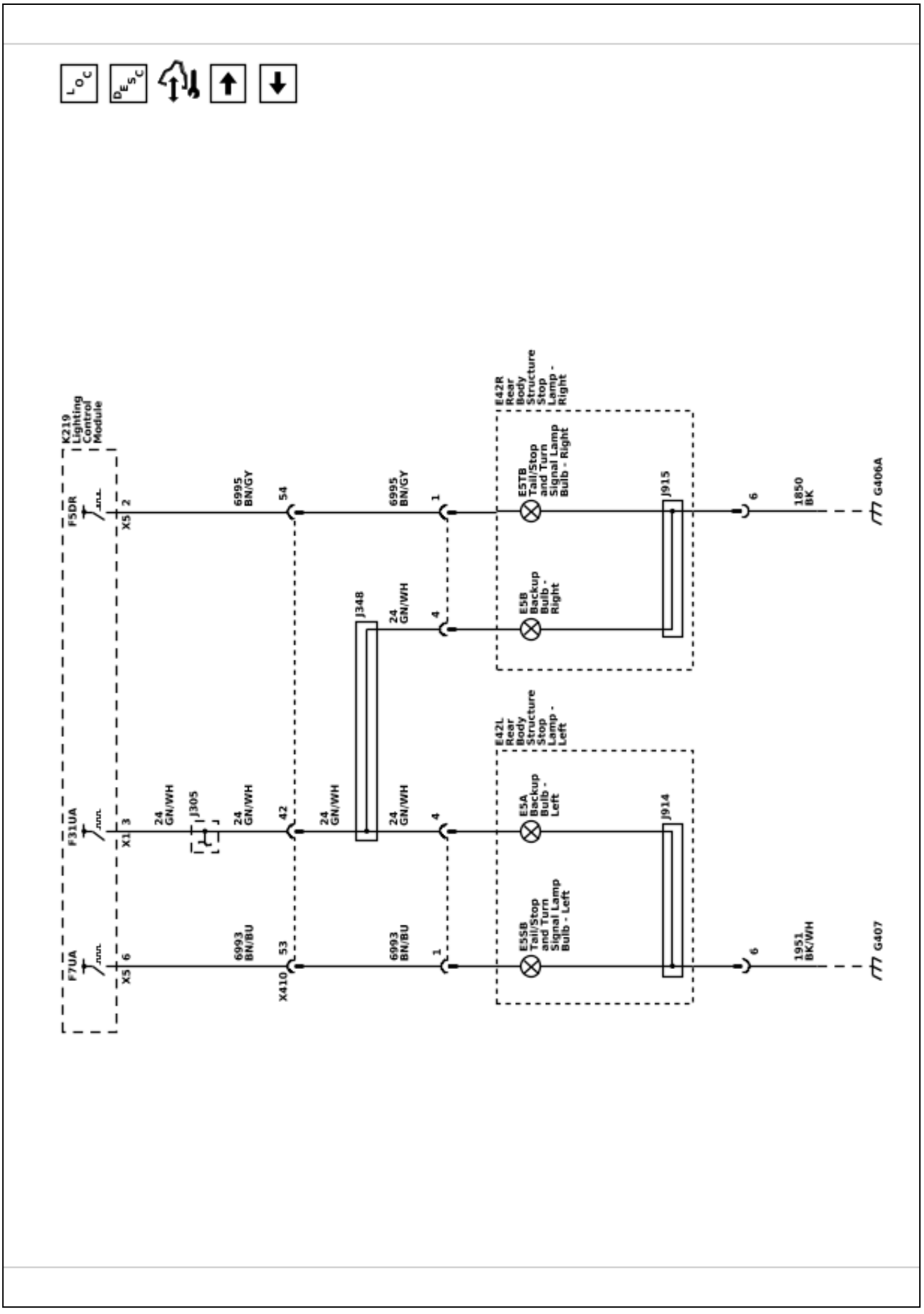
Exterior Lights Schematics (Tail Lamp Assembly - Left (DZW / GA4 / GFG / GFU / GFW / GFY))



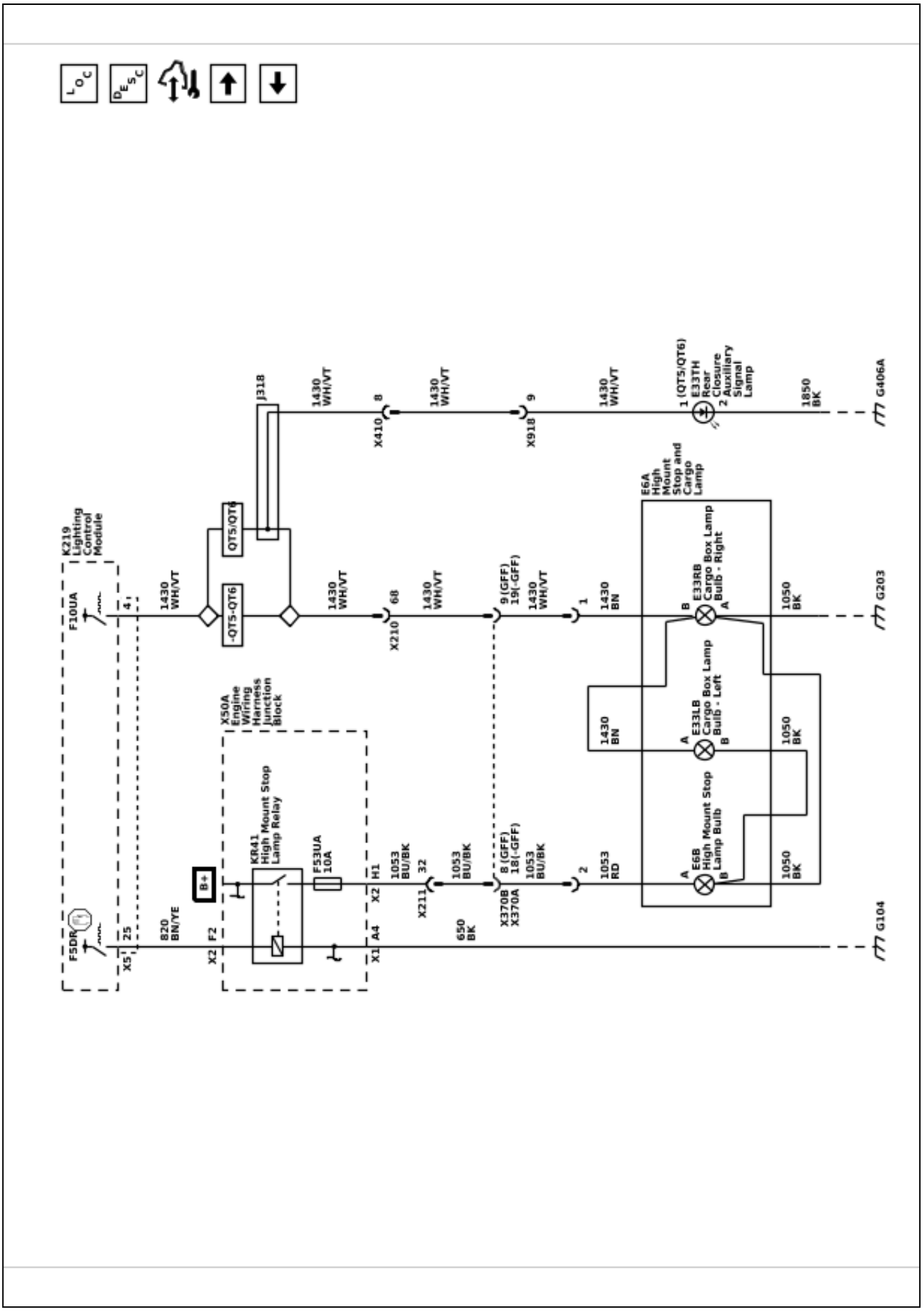
Exterior Lights Schematics (Tail Lamp Assembly - Right (DZW / GA4 / GFG / GFU / GFW / GFY))



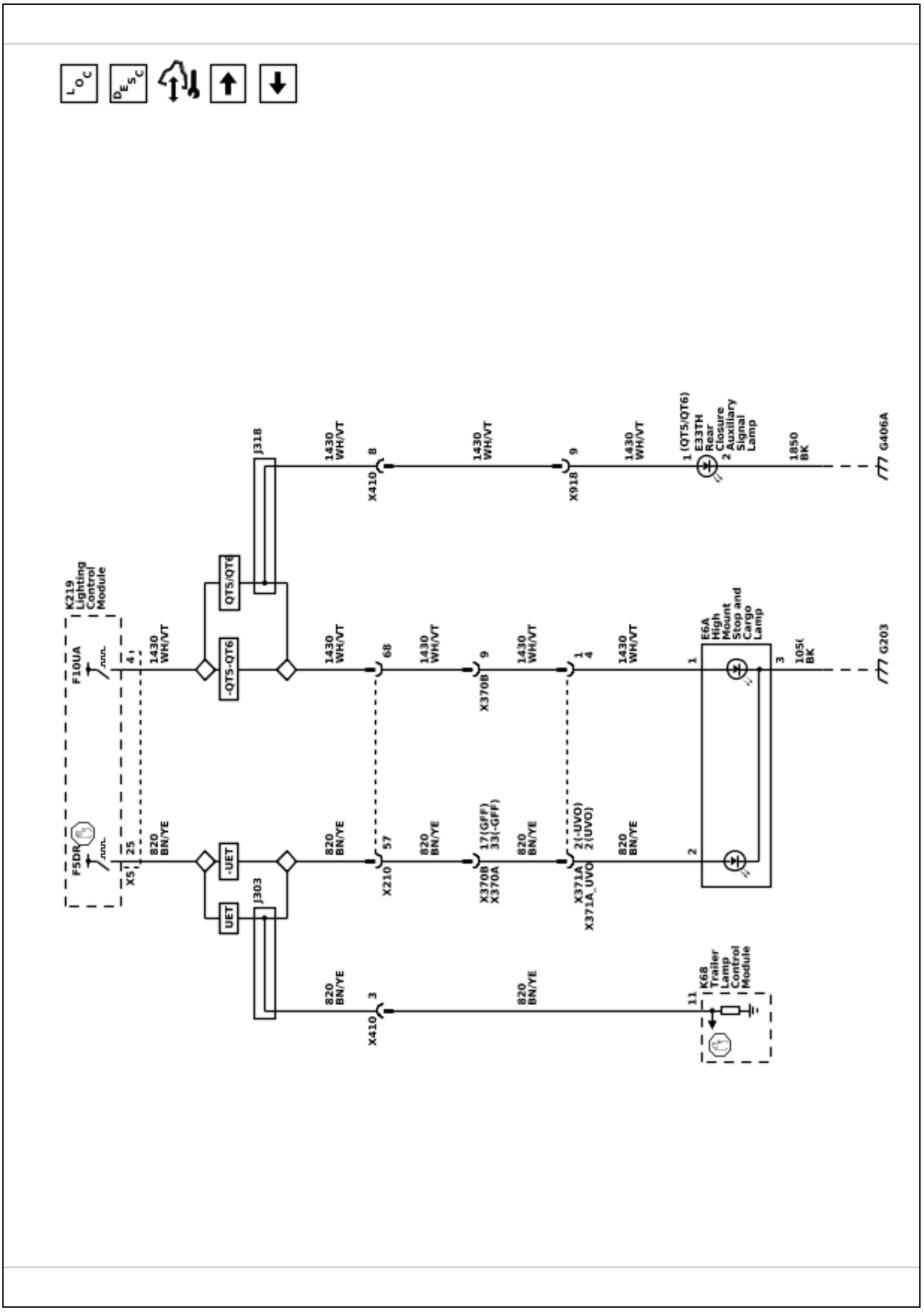
Exterior Lights Schematics (Tail Lamp Assemblies (ZW9))



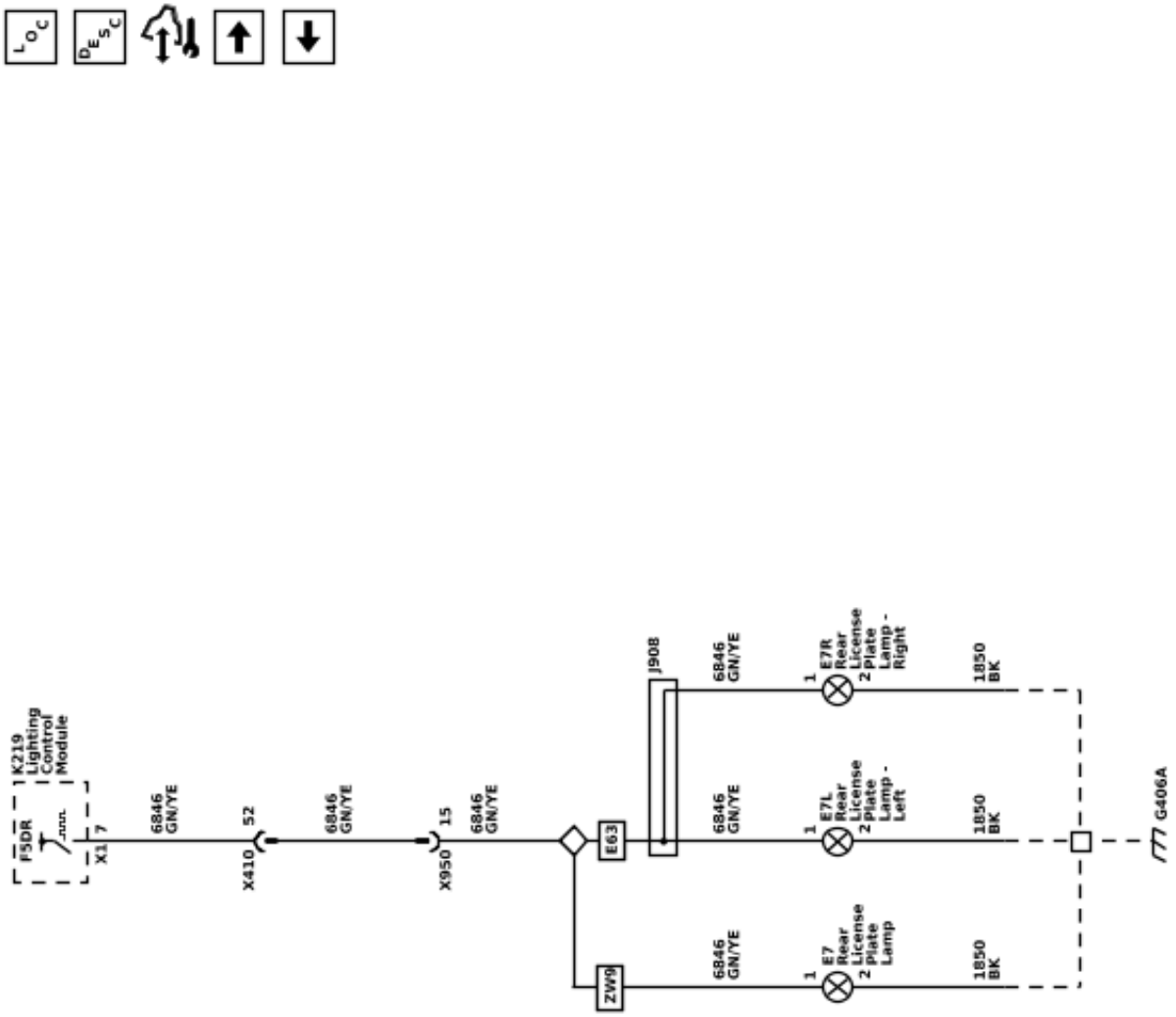
Exterior Lights Schematics (Center High Mount Stop and Exterior Courtesy Lights - Regular Cab)



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

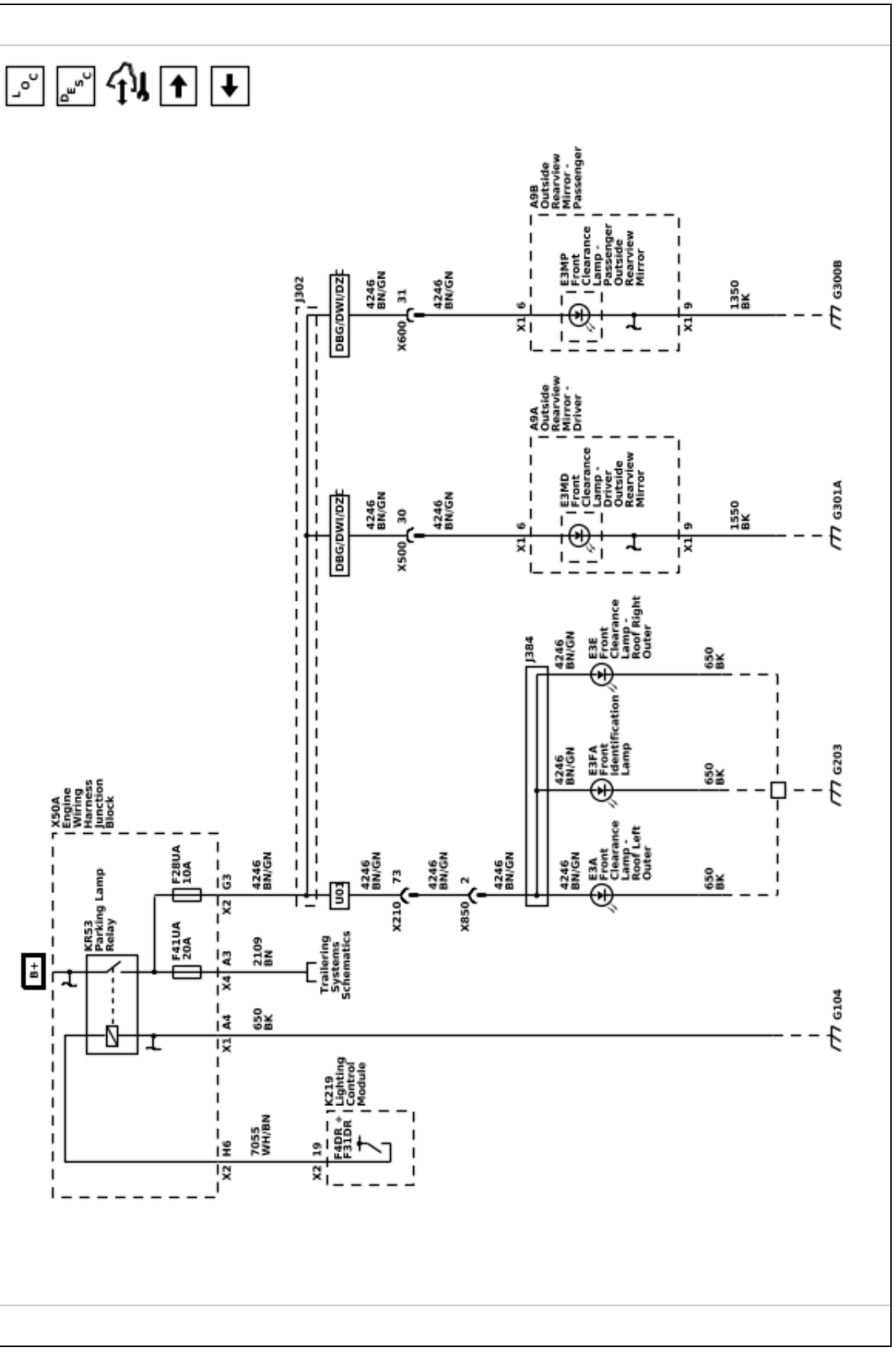


Exterior Lights Schematics (License Plate Lamps)

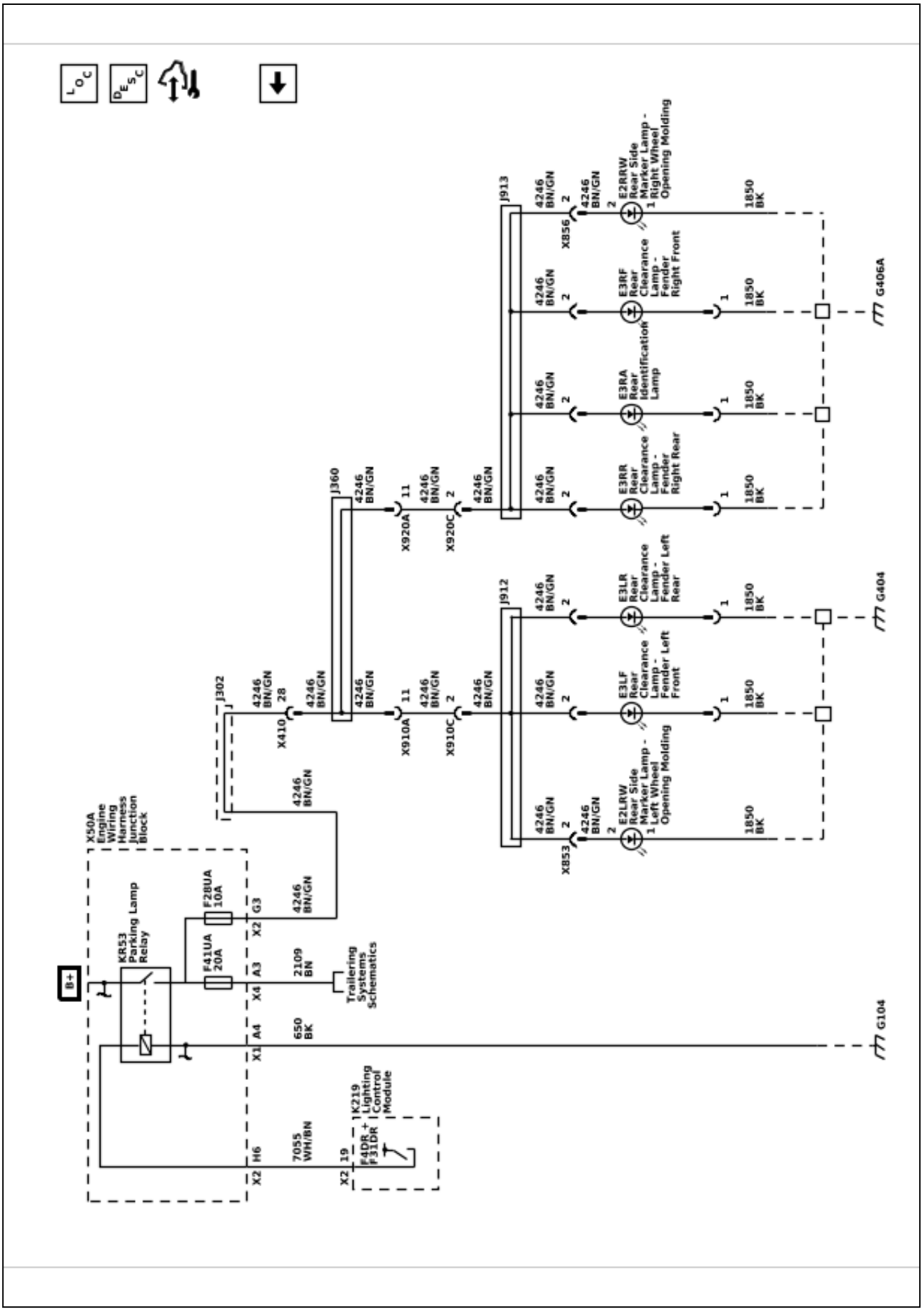


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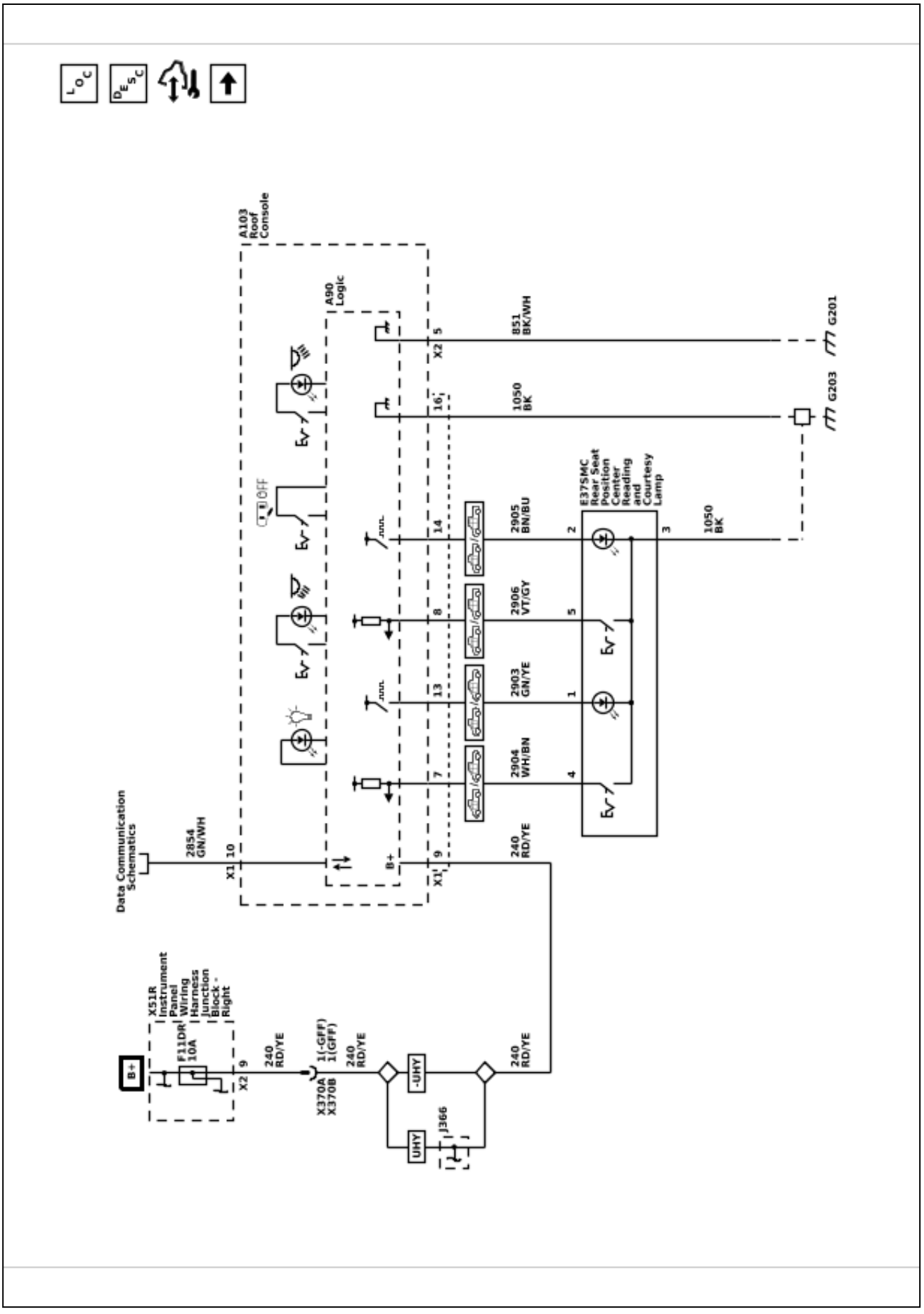
Exterior Lights Schematics (Identification Lights - Front)



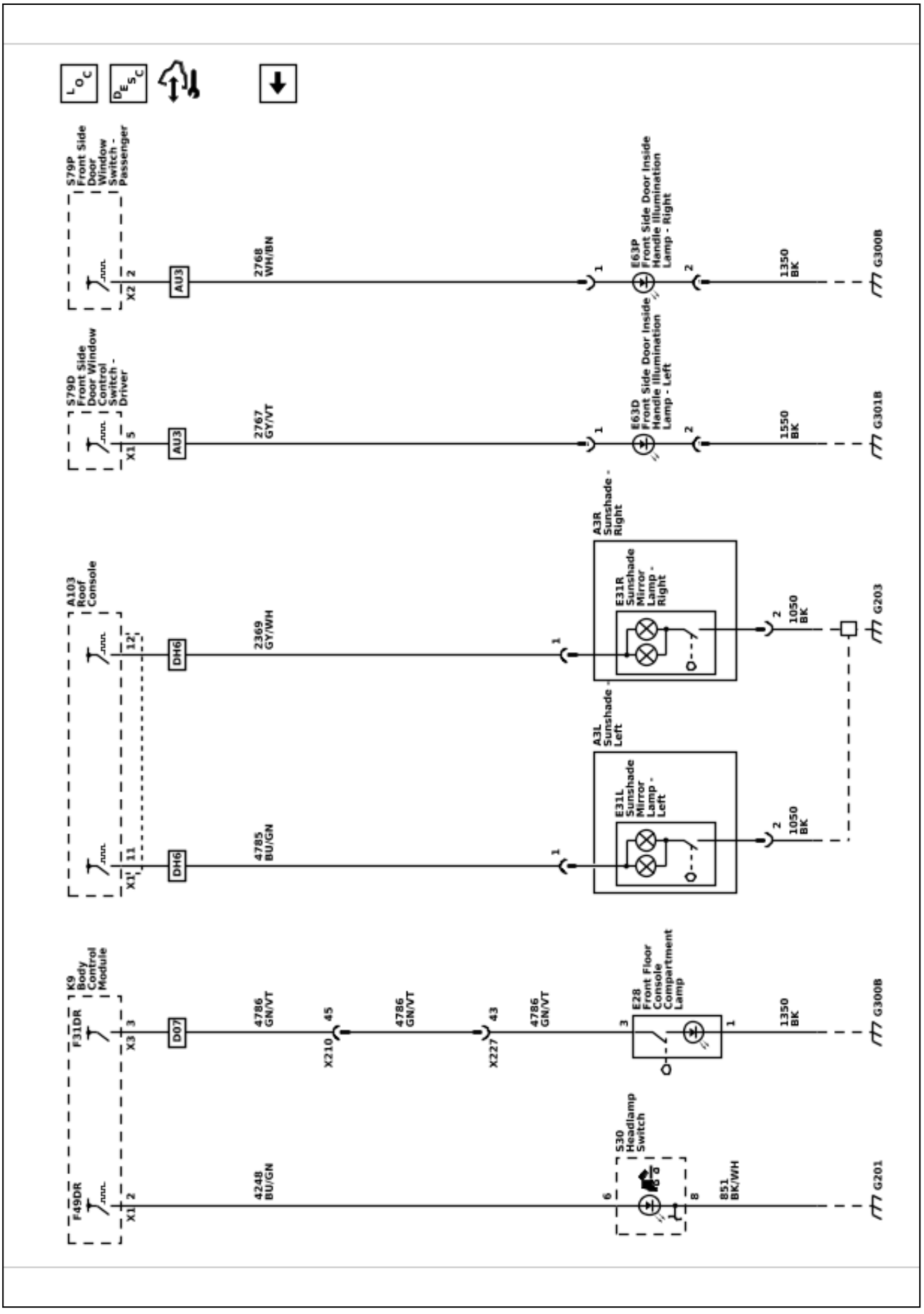
Exterior Lights Schematics (Identification Lights - Rear)



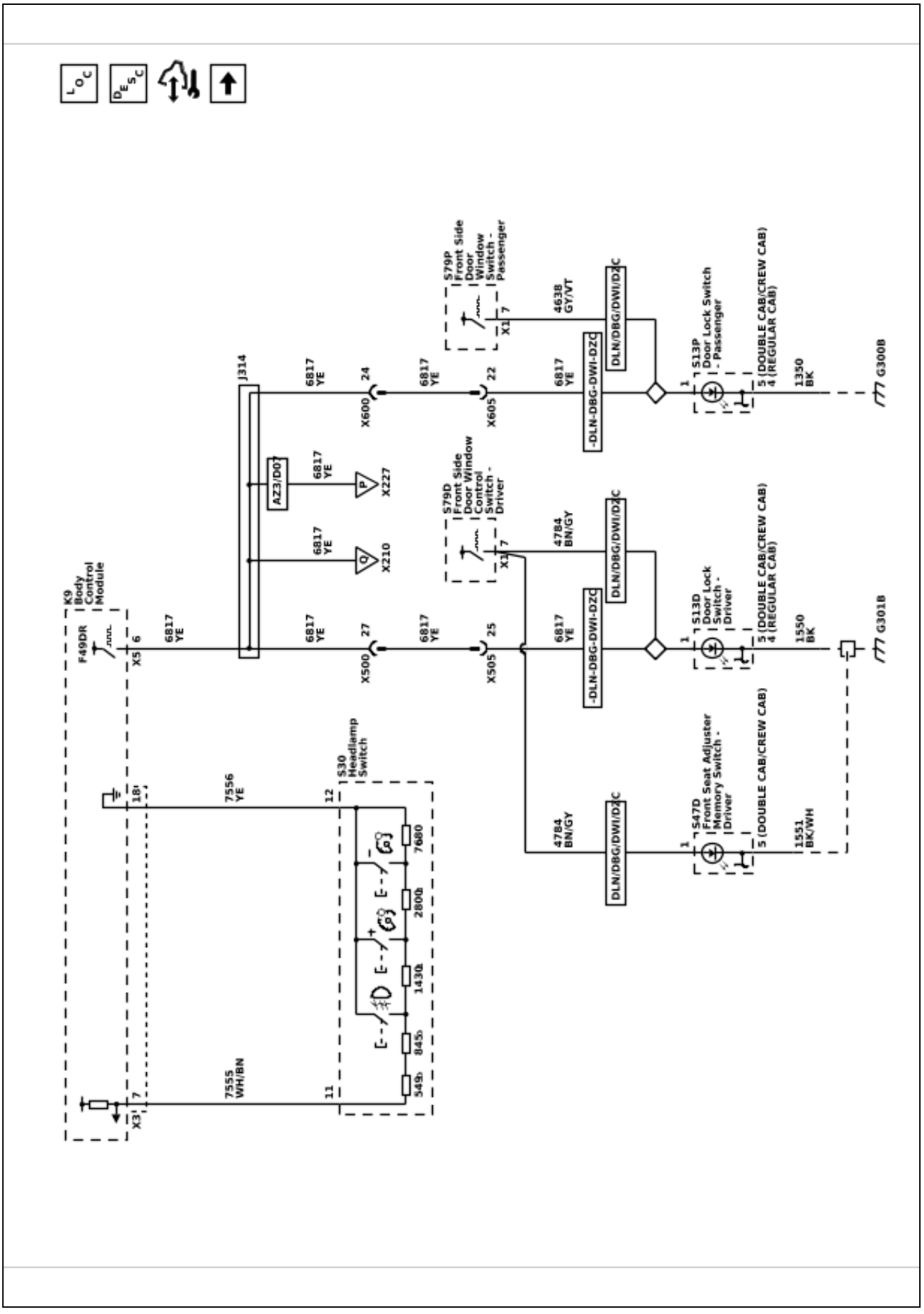
Interior Lights Schematics (Roof Console and Rear Seat Reading and Courtesy Lamps - Double Cab/Crew Cab)



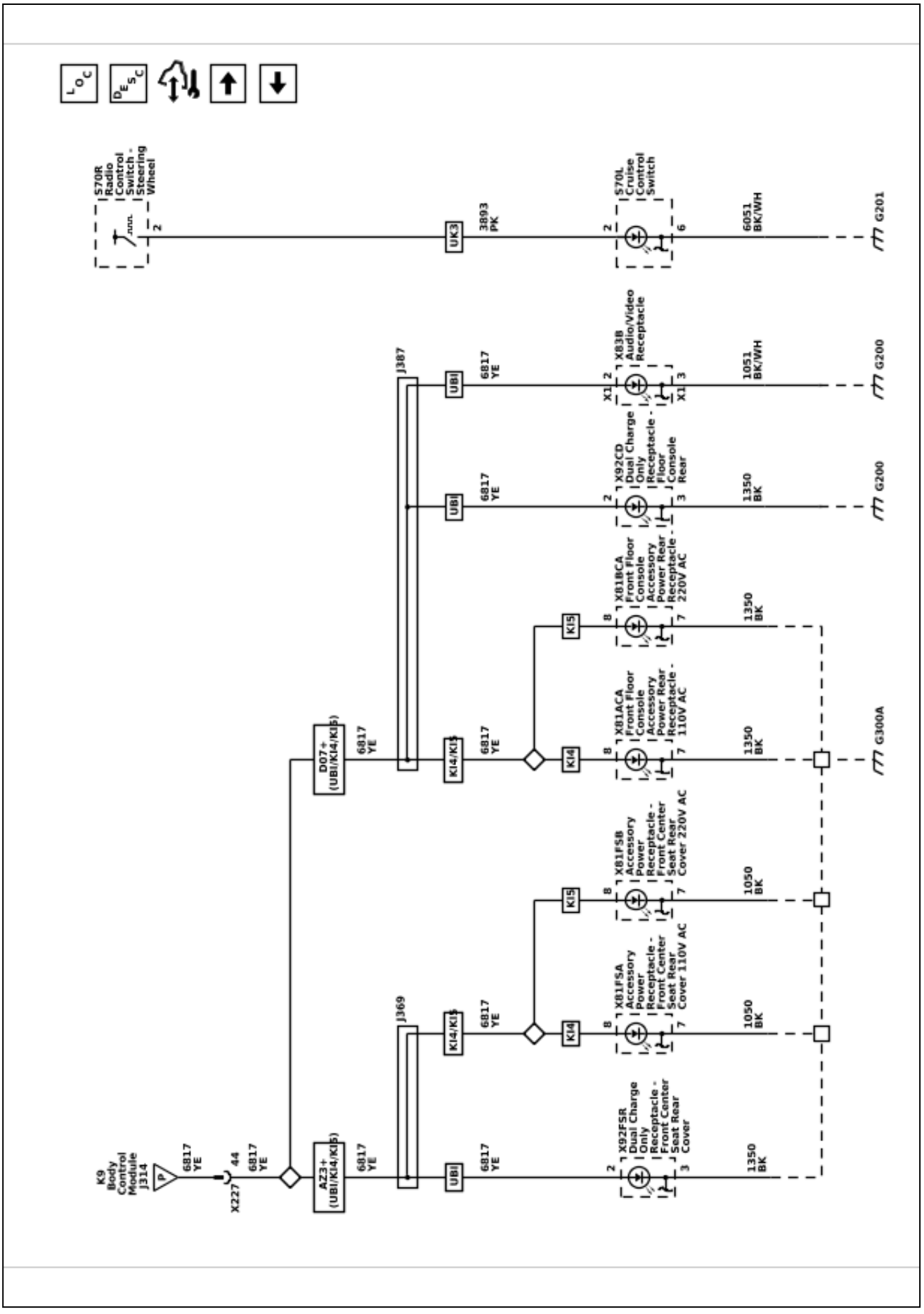
Interior Lights Schematics (Cargo Lamp Indicator, Sunshade, Center Console, and Door Lamps)



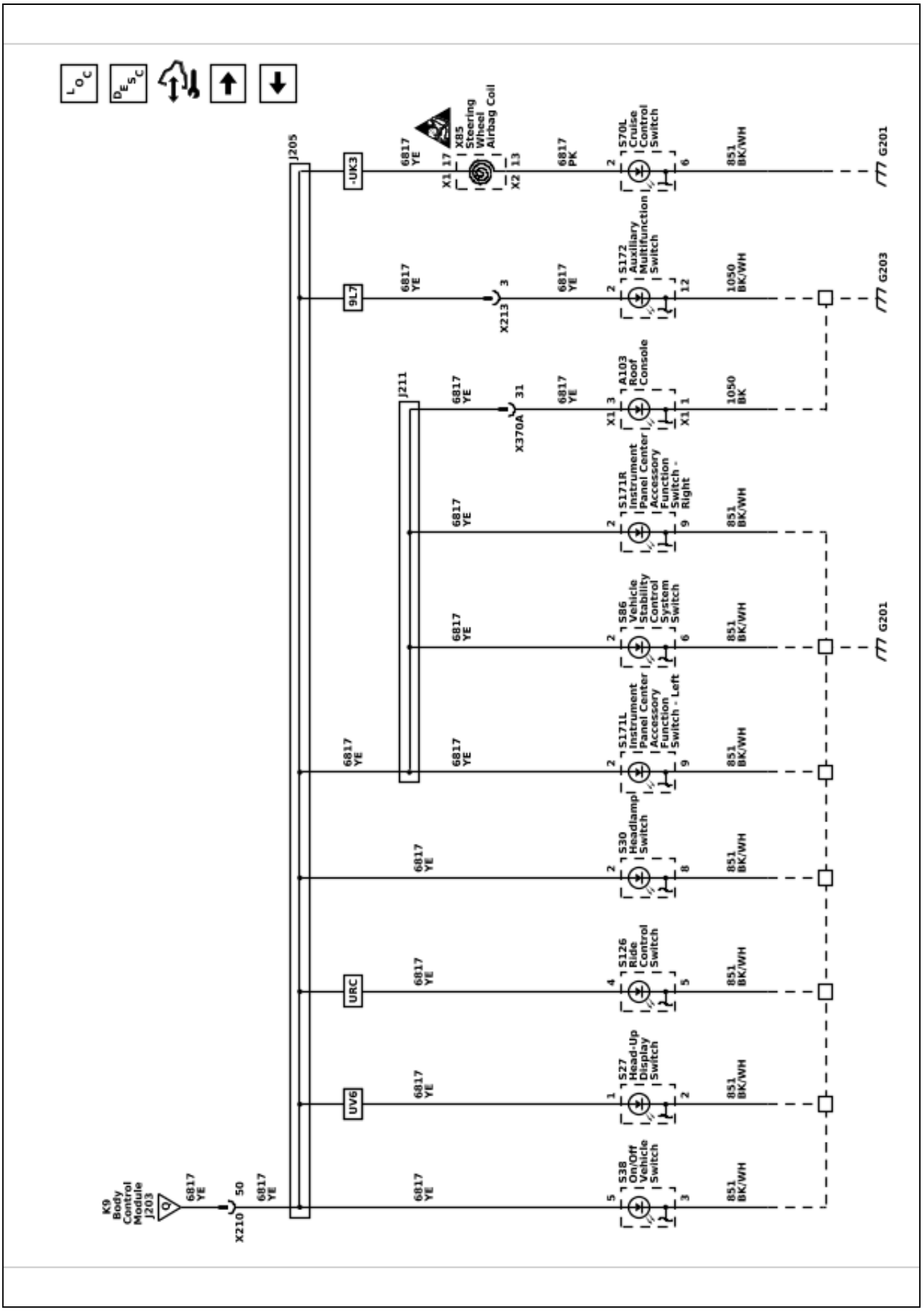
Interior Lights Dimming Schematics (Controls and Front Door Backlights)



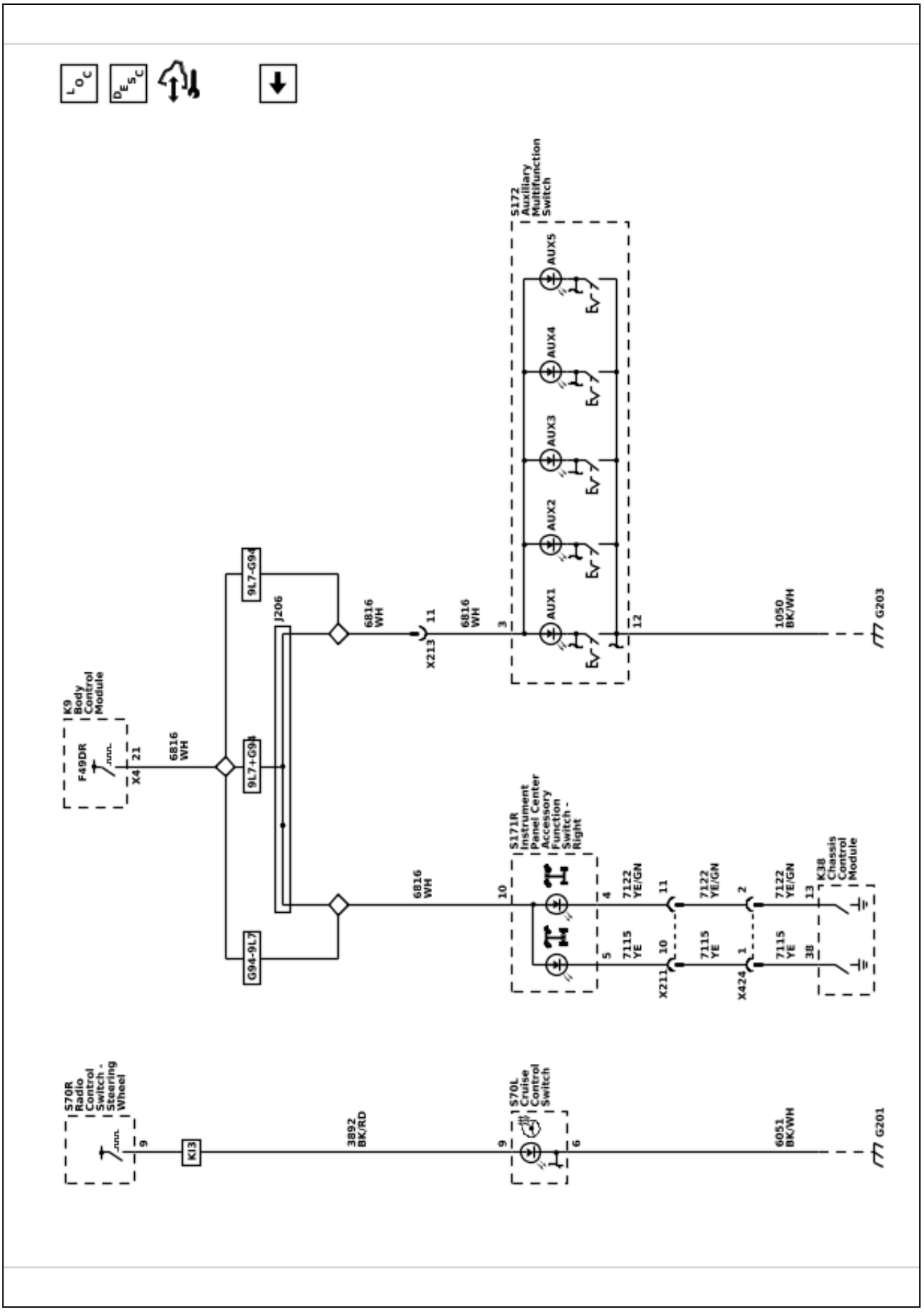
Interior Lights Dimming Schematics (Steering Wheel, Floor Console, and Center Seat Backlights)



Interior Lights Dimming Schematics (Instrument Panel Backlights)



Interior Lights Dimming Schematics (Indicators)



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
- {T3U} Front fog lamps
- {B3L} Running board lamps
- Stop lamps
- Task lamps
- Turn signal lamps
- Trailer lighting, refer to *Trailering Description and Operation 1-66* 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.

{TQ5} Intellibeam – Automatic High Beam Assist

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 or ON 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. On vehicles equipped with Side Blind Zone Alert, IntelliBeam will proactively turn OFF the high beam headlamps when a vehicle is passing on the left or right side. 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 or ON 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
- The system detects a vehicle passing to the right or left (SBZA equipped only)
- 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 and/or side object sensor module(s) 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.

{T3U} Front Fog Lamps

The S30 Headlamp Switch is used to control the fog lights when equipped. The K9 Body Control Module (BCM) provides a 5V signal circuit and low reference circuit to the headlamp switch for backlight dimming and fog light controls. When a dimming/fog light 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 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 appropriate fog light(s).

{B3L} Running Board Lamps

The running board assist step lamps become illuminated anytime lock/unlock is pressed on the keyless entry transmitter during low ambient light conditions as part of the approach lighting system. The K9 Body Control Module responds to the lock/unlock request during low ambient light conditions by sending a serial data message to the K4 Running Board Control Module to command the running board assist step lamps on. The running board control module responds by applying voltage to the running board assist step lamp control circuits illuminating the running board assist step lamp LEDs.

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 there 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. The left and right turn signal control circuits are connected to each front and rear lamp assemblies, this is for animation purposes. When a lamp assembly only receives one turn signal input, an animation effect takes place as a “swiping” motion for the turn signals. When a lamp 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 Headlaamp 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 Headlaamp 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.

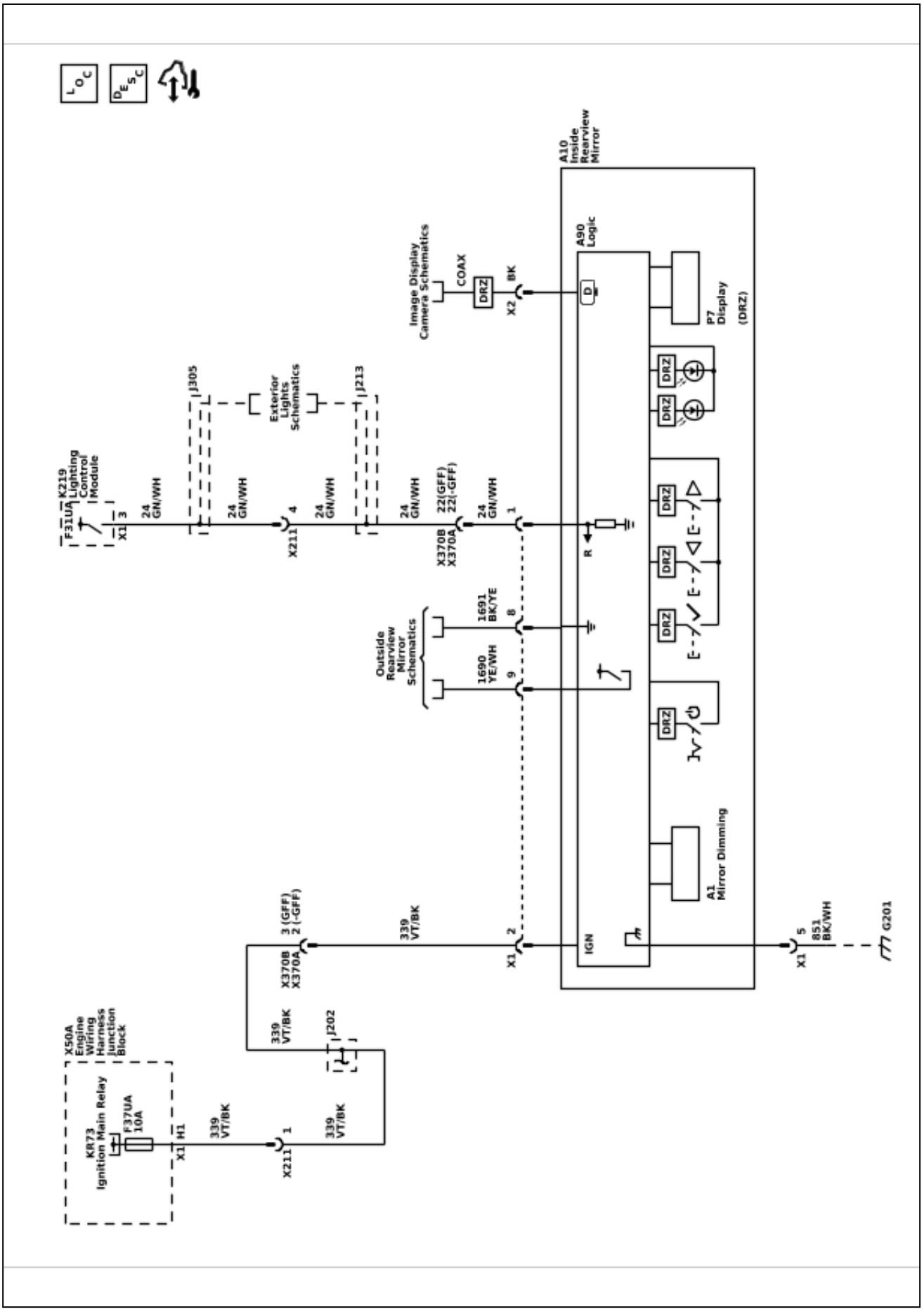
Battery Rundown Protection/Inadvertent Power

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.

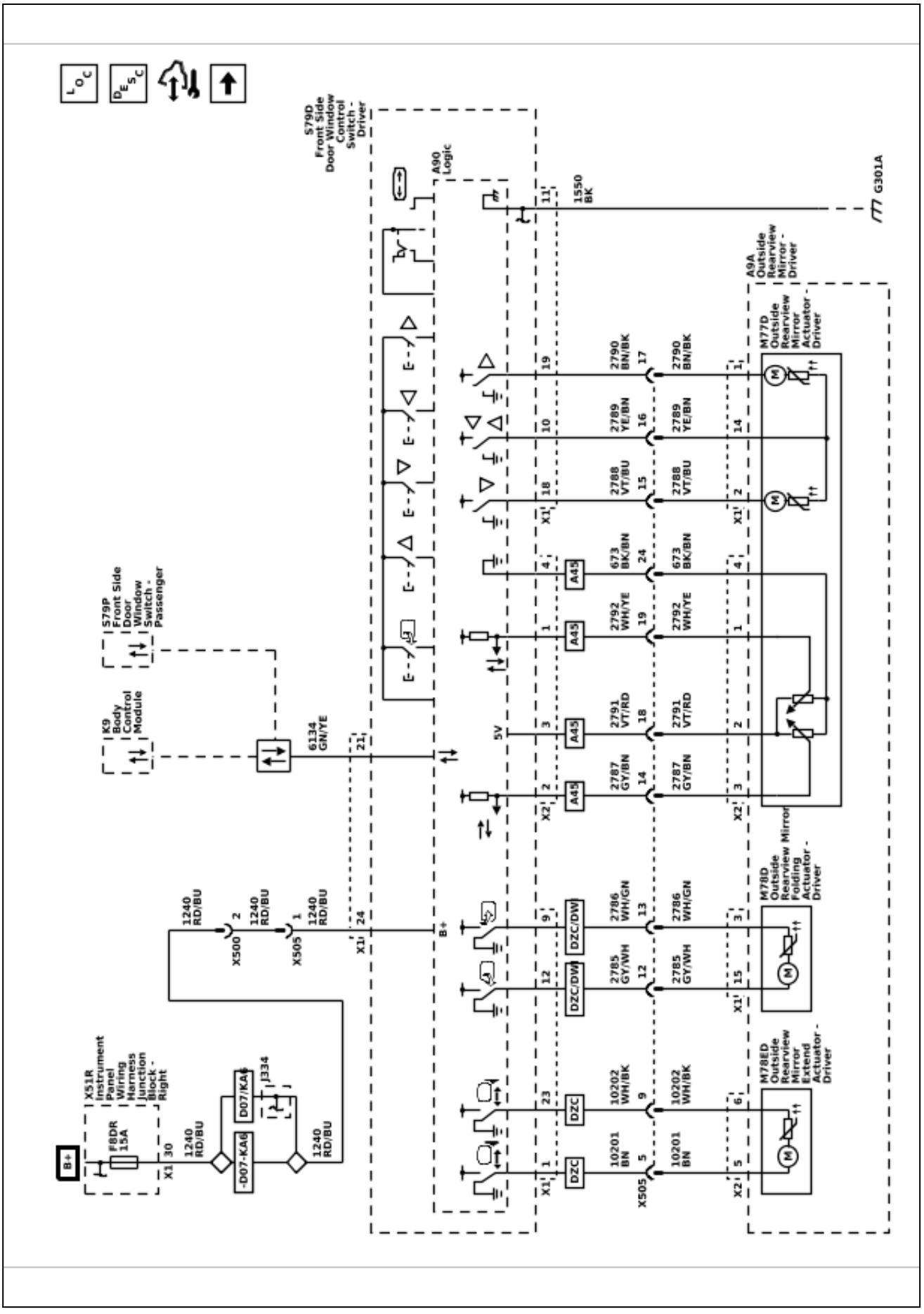
Mirrors

Schematic and Routing Diagrams

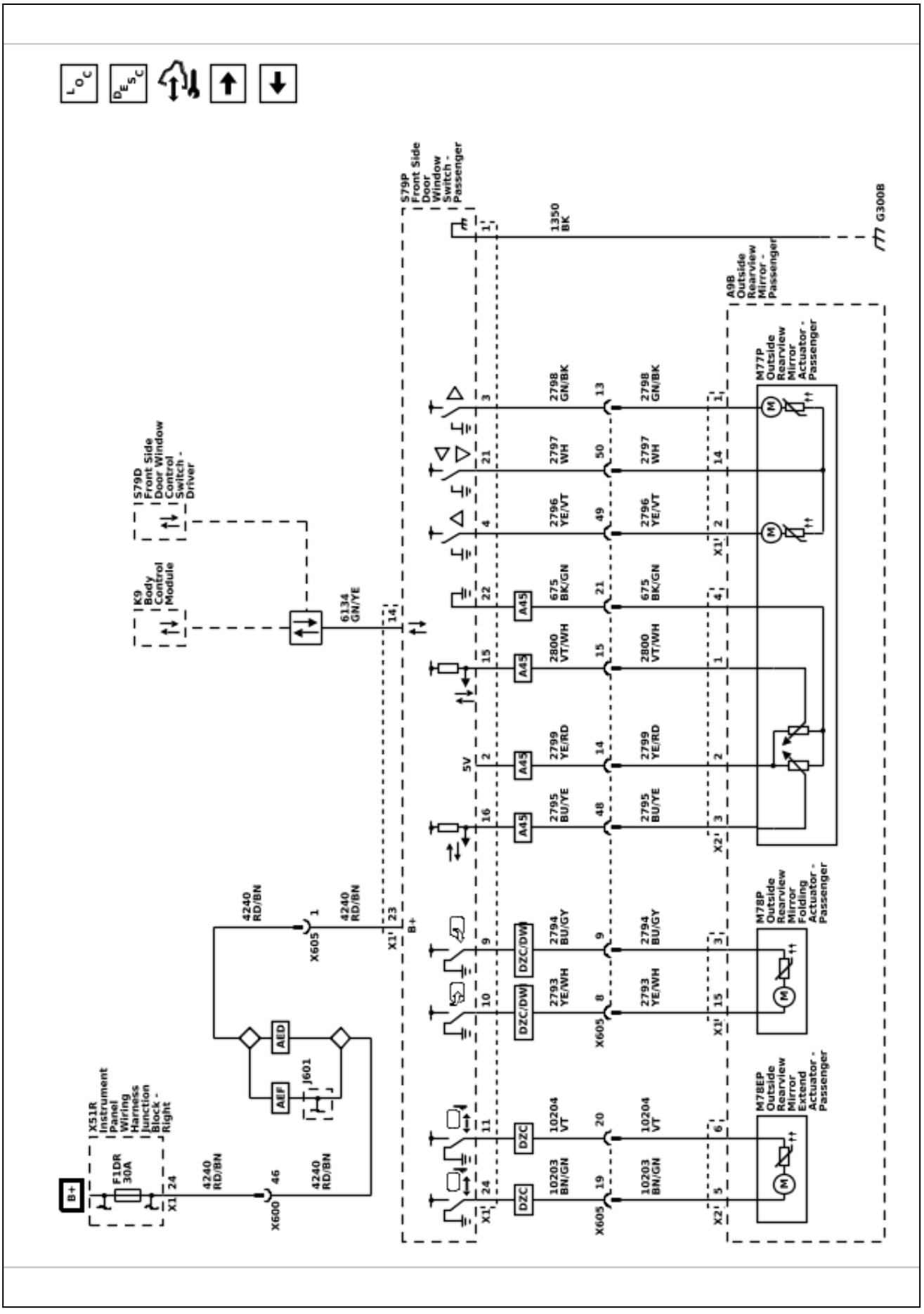
Inside Rearview Mirror Schematics (Inside Rearview Mirror (DD8 / DRZ))



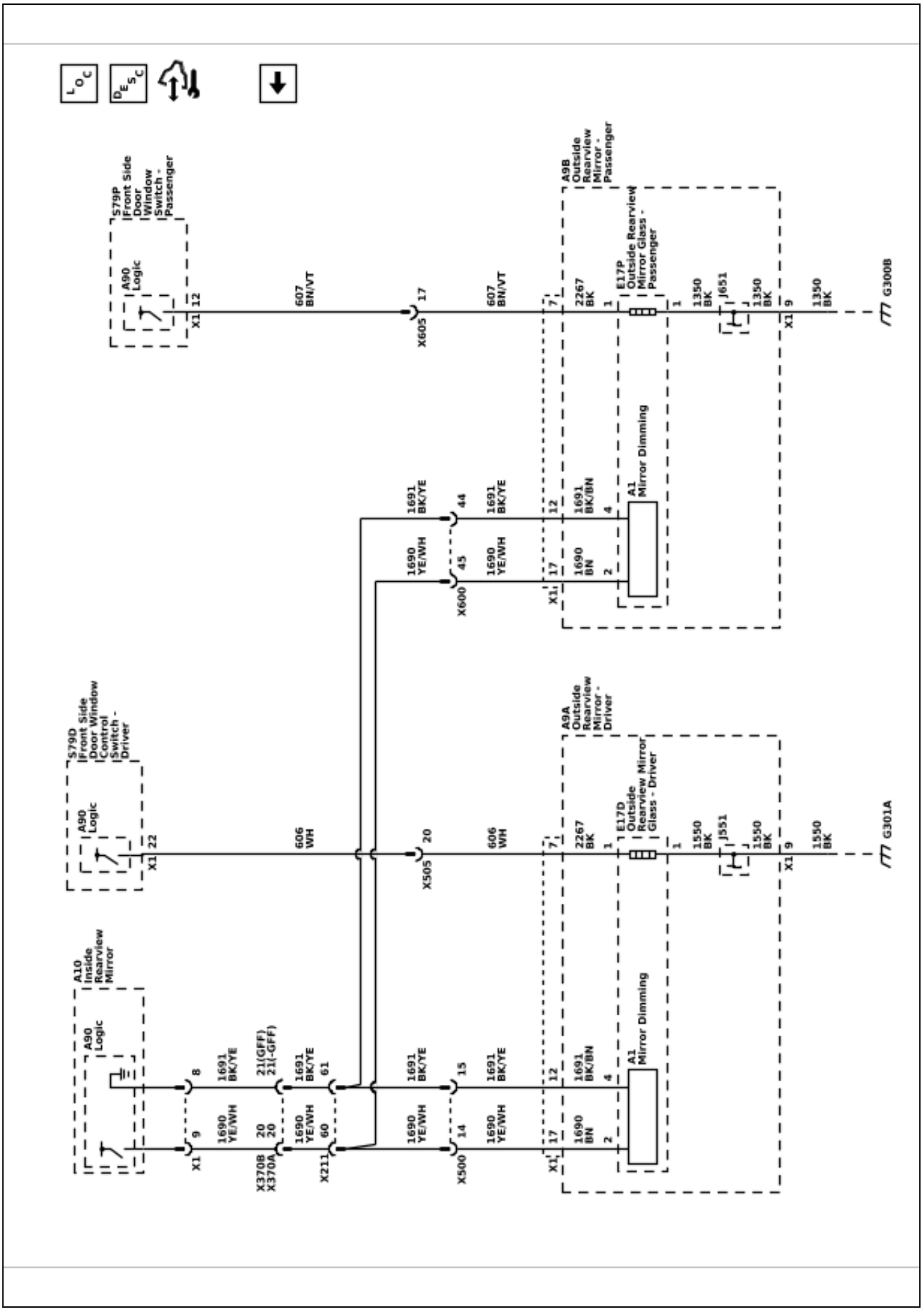
Outside Rearview Mirror Schematics (Driver Controls, Position, and Folding (DWI / DZC))



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



Outside Rearview Mirror Schematics (Dimming and Heating (DD8 / DRZ))



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

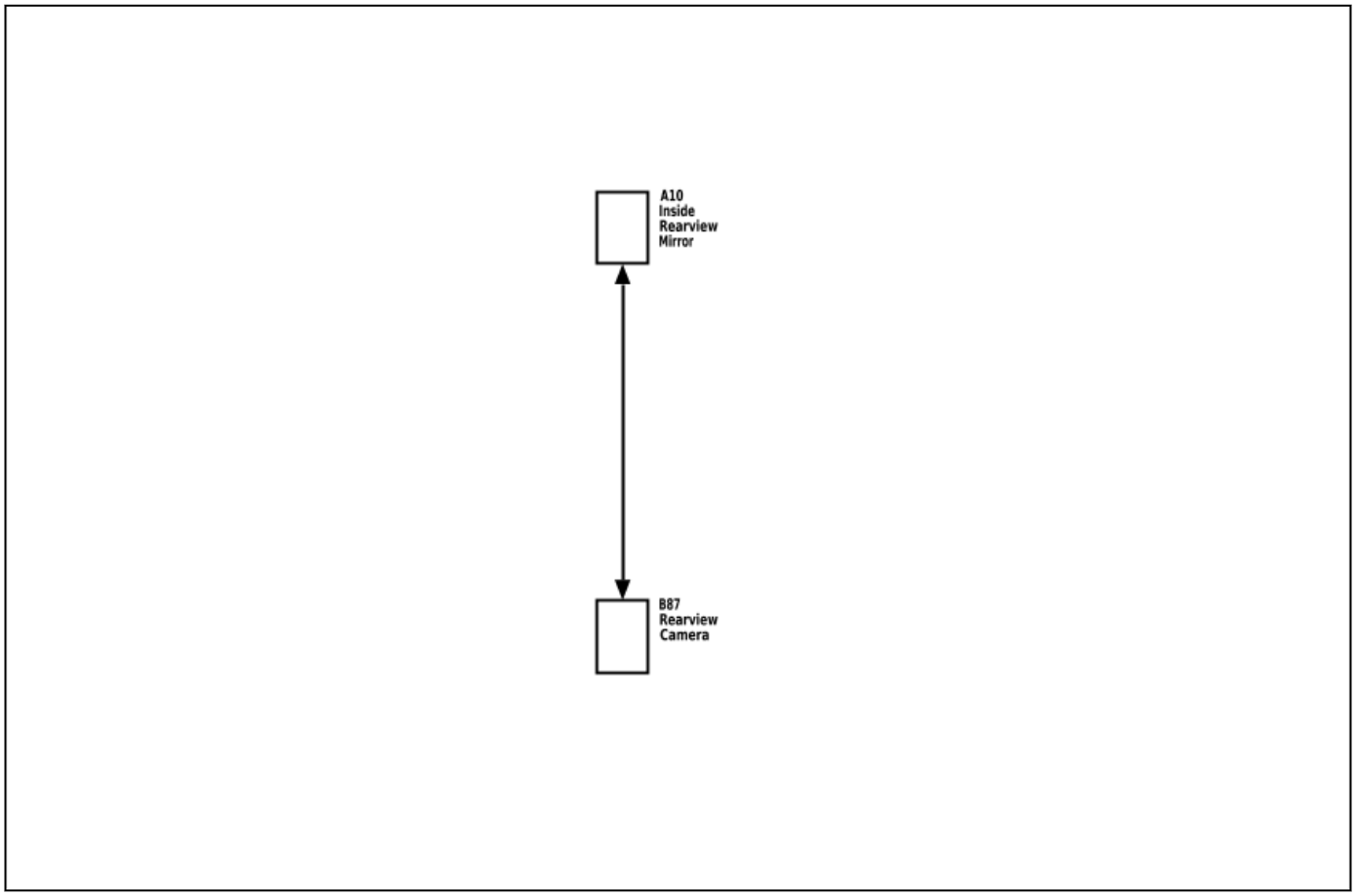
The A10 Inside Rearview Mirror is connected to the B352 Video Display inside Rearview Mirror Camera via a shielded coaxial cable. When the tab under the inside rearview mirror is pulled rearward, a view of the area behind the vehicle displays on the mirror. Adjust the rearview mirror for a clear view 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 it 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

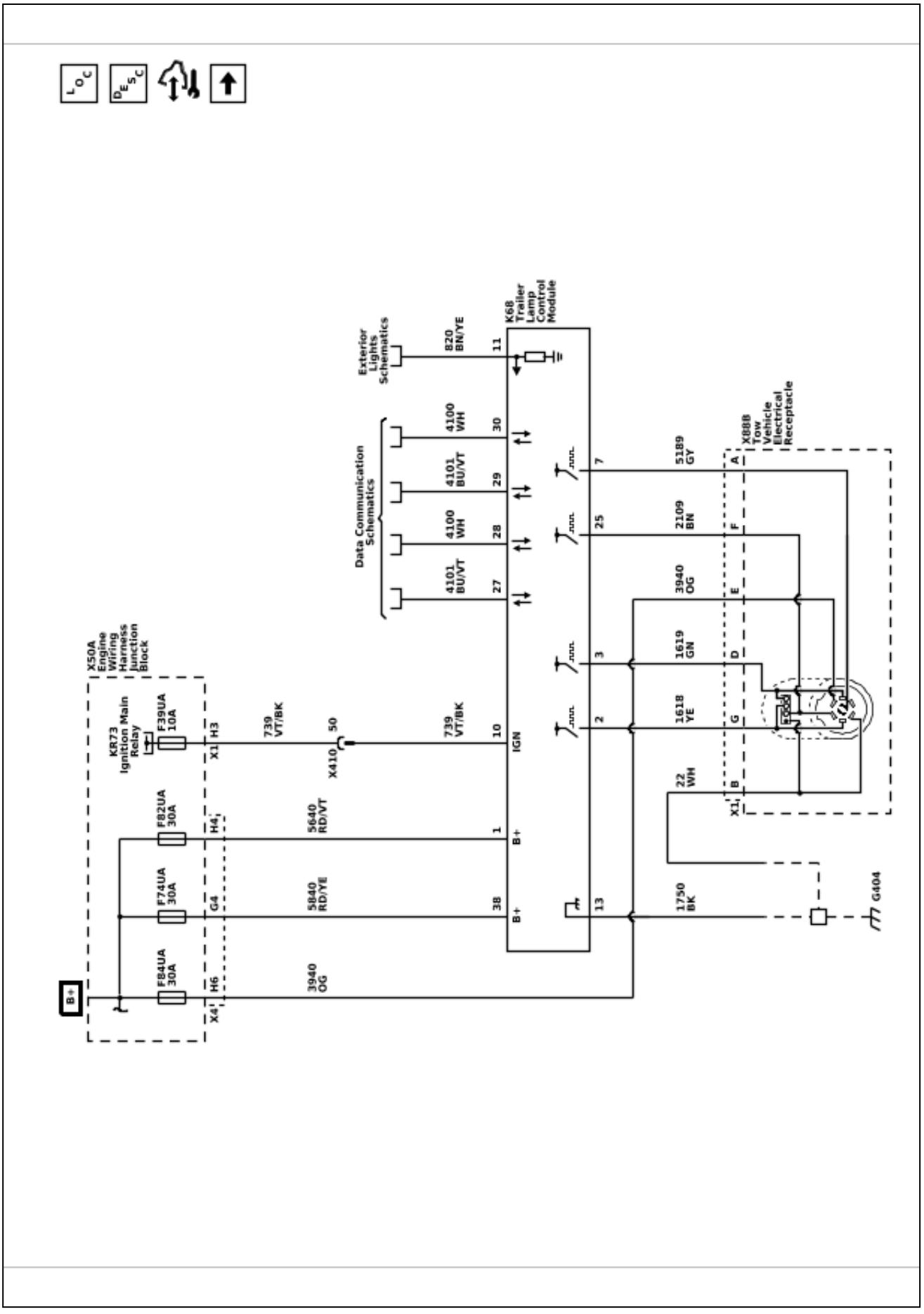
Heated Mirrors

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.

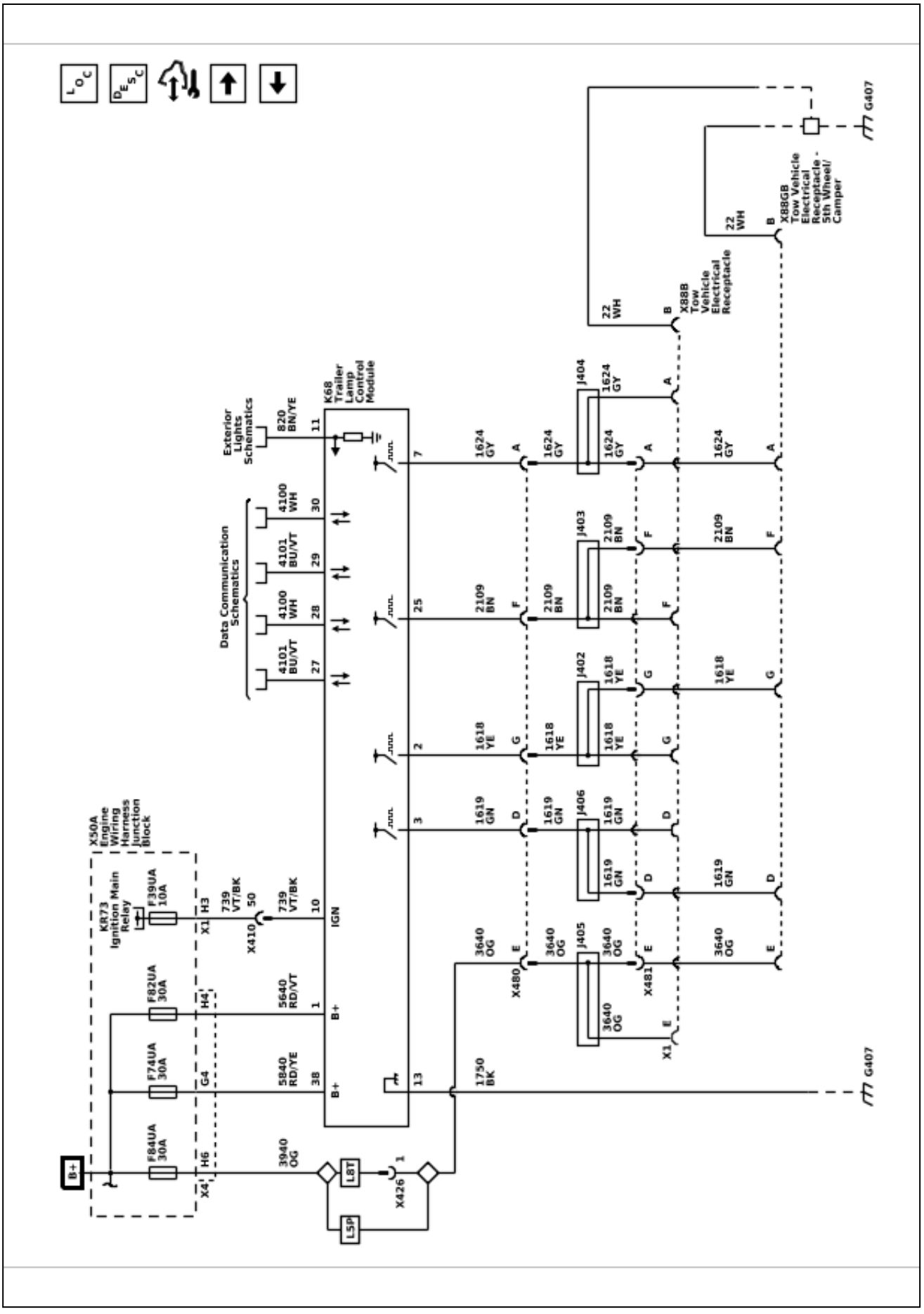
Trailering Systems

Schematic and Routing Diagrams

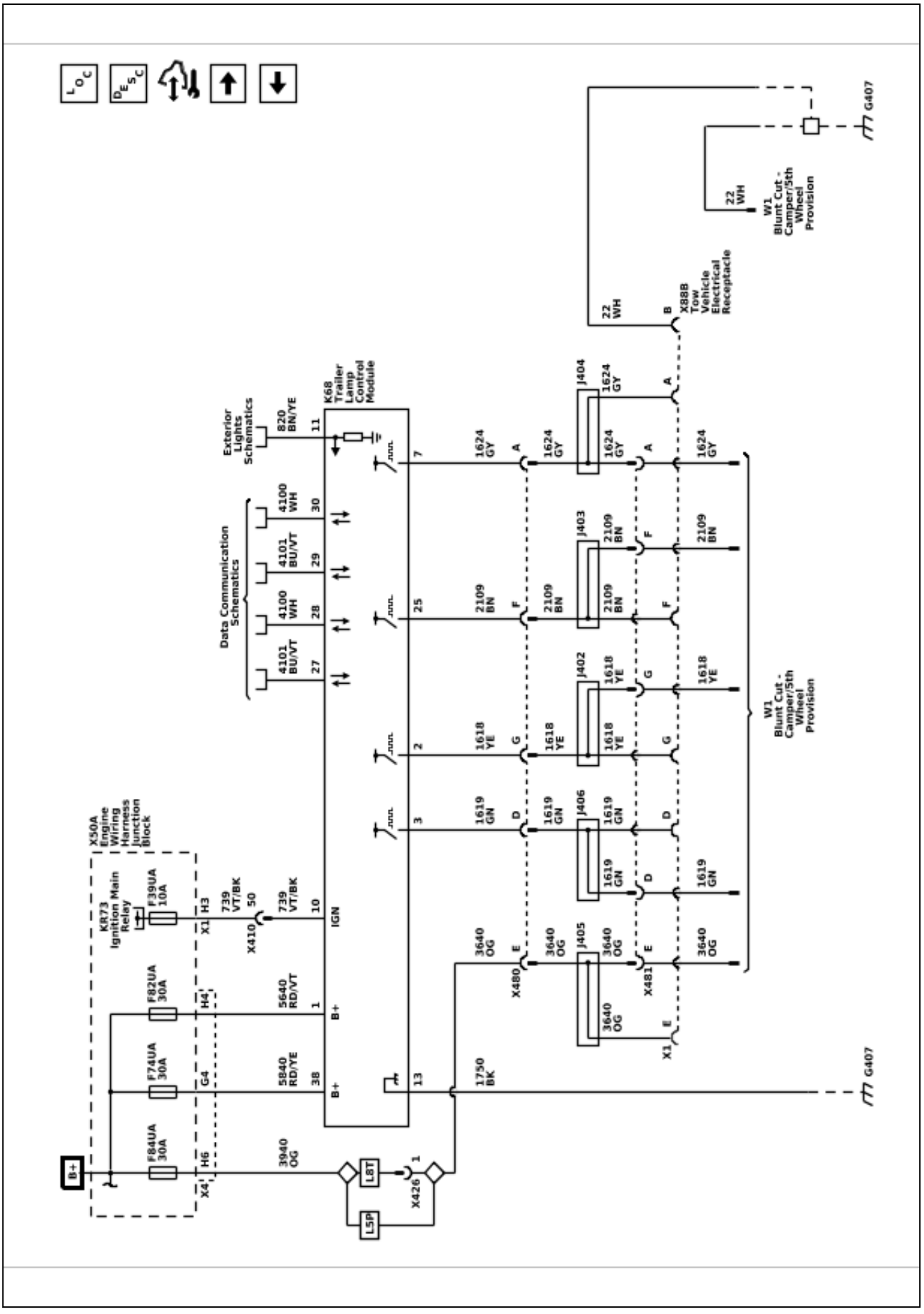
Trailering Systems Schematics (Trailer Lighting Control Module (Z82 & UET - (UY2 / Z6A)))



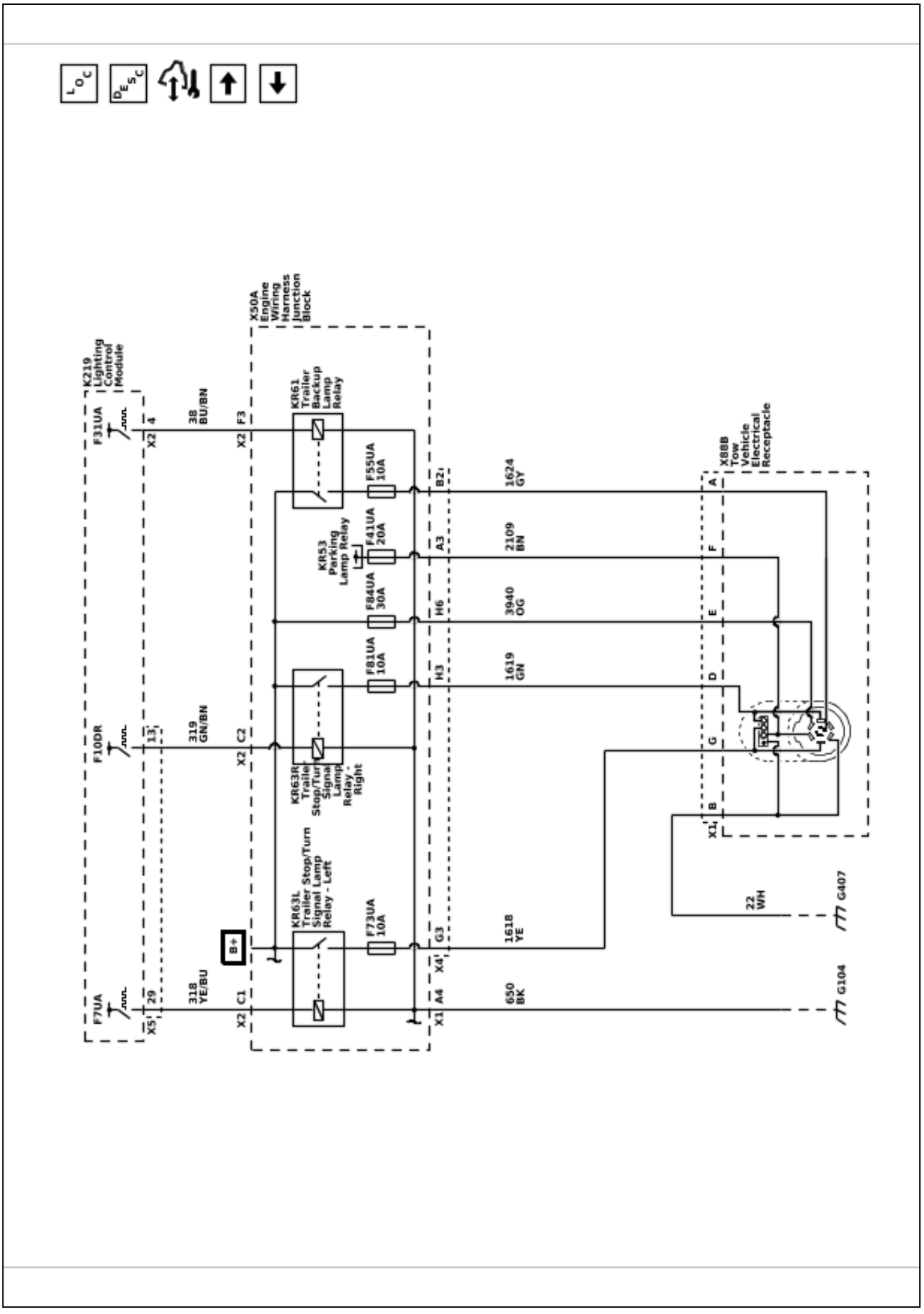
Trailering Systems Schematics (Trailer Lighting Control Module (Z82 & UET & Z6A))



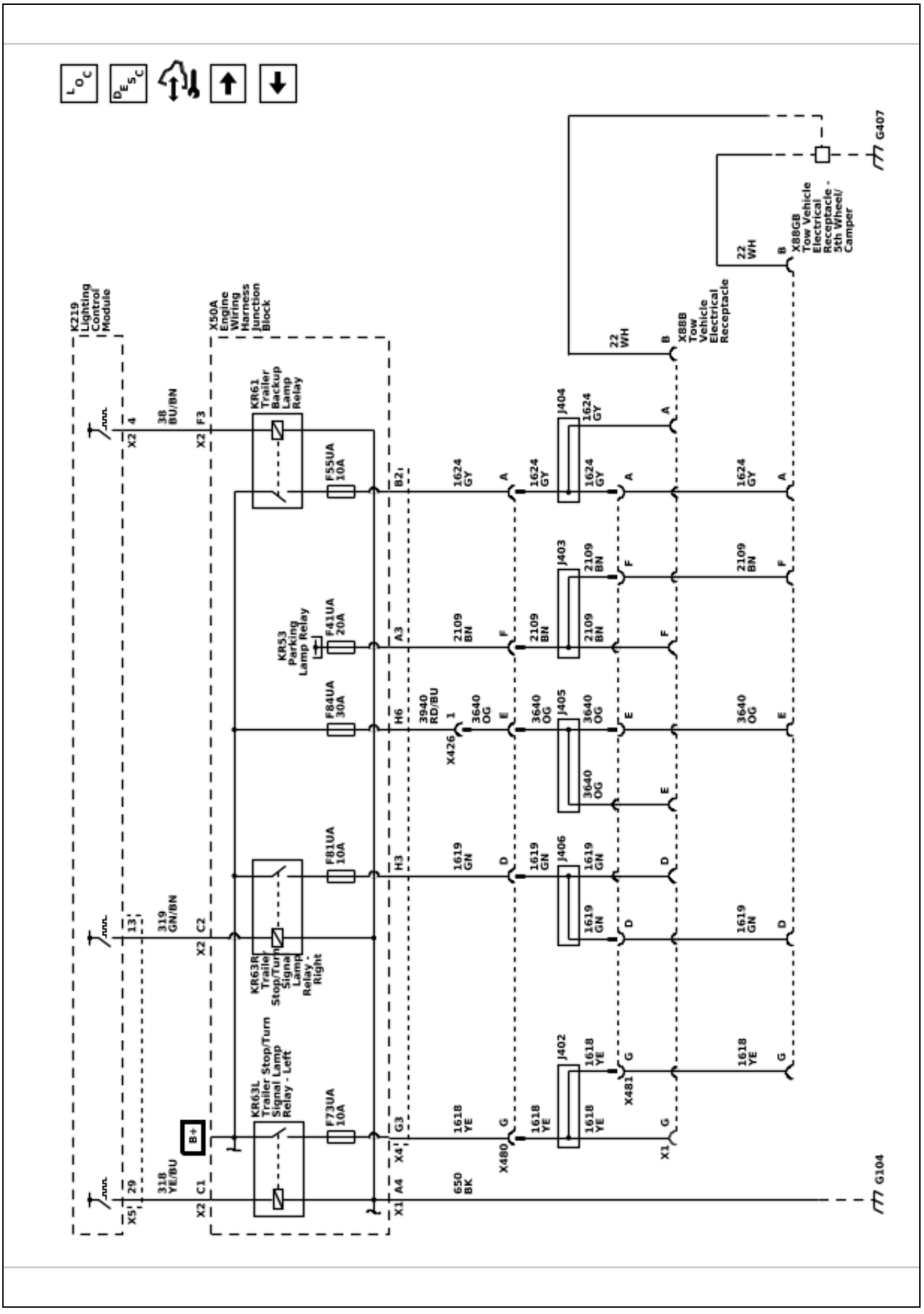
Trailering Systems Schematics (Trailer Lighting Control Module (Z82 & UET & UY2))



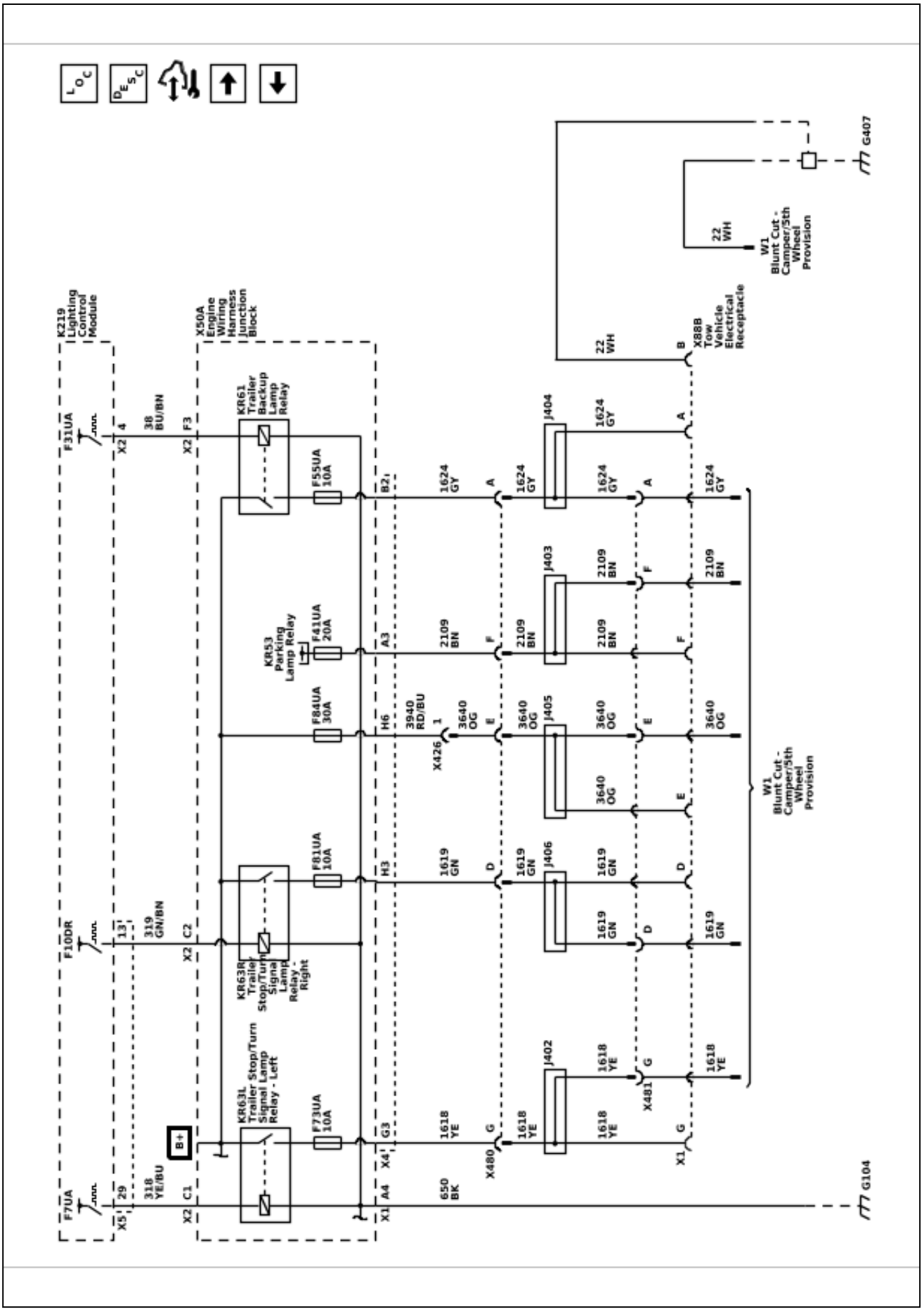
Trailering Systems Schematics (Trailer Connector Pins: A, B, D, E, F, G (Z82 - (UET / UY2 / Z6A)))



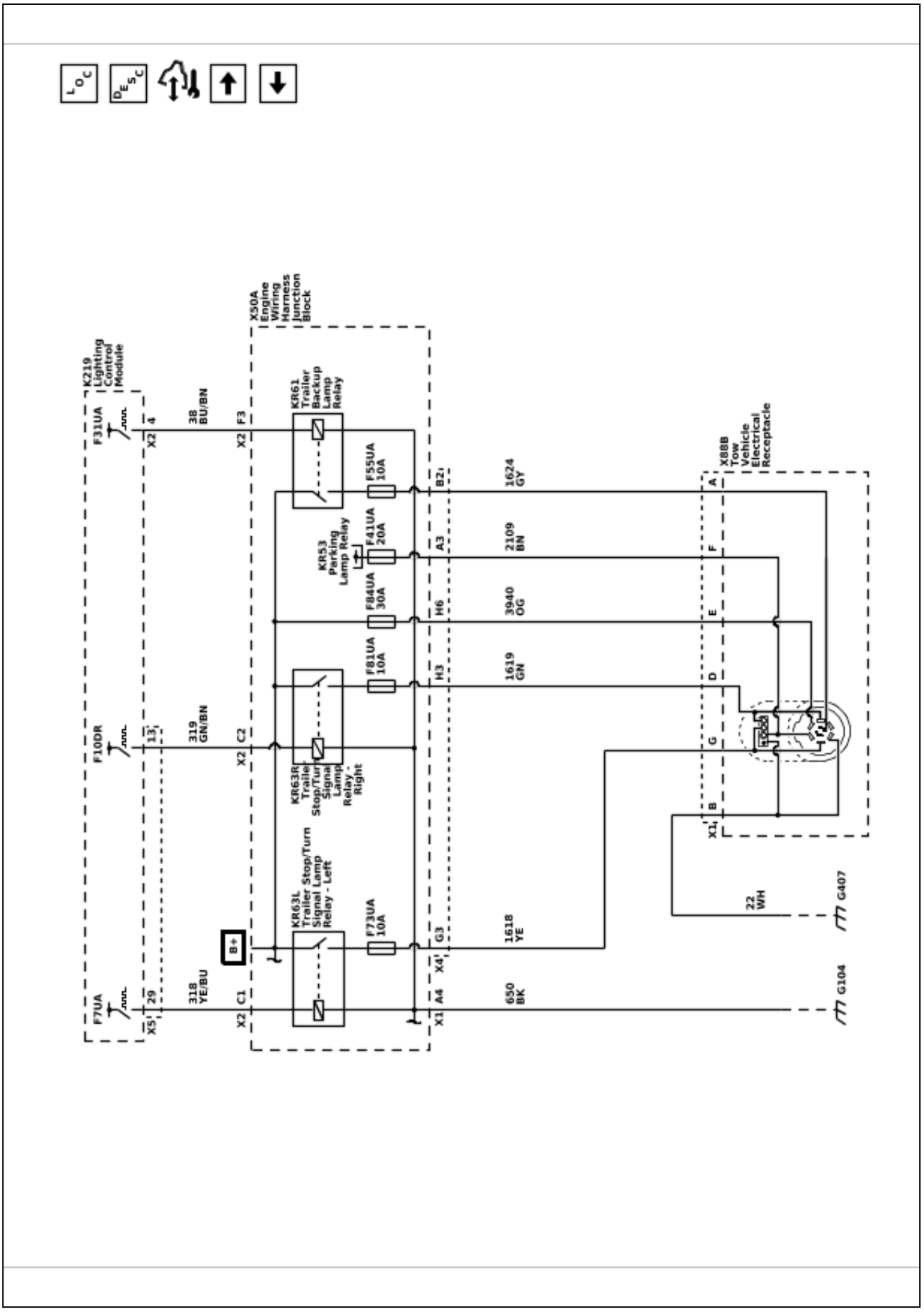
Trailering Systems Schematics (Trailer Connector Pins: A, B, D, E, F, G (Z82 & Z6A - (UET / UY2)))



Trailering Systems Schematics (Trailer Connector Pins: A, B, D, E, F, G (Z82 & UY2 - (UET / Z6A)))

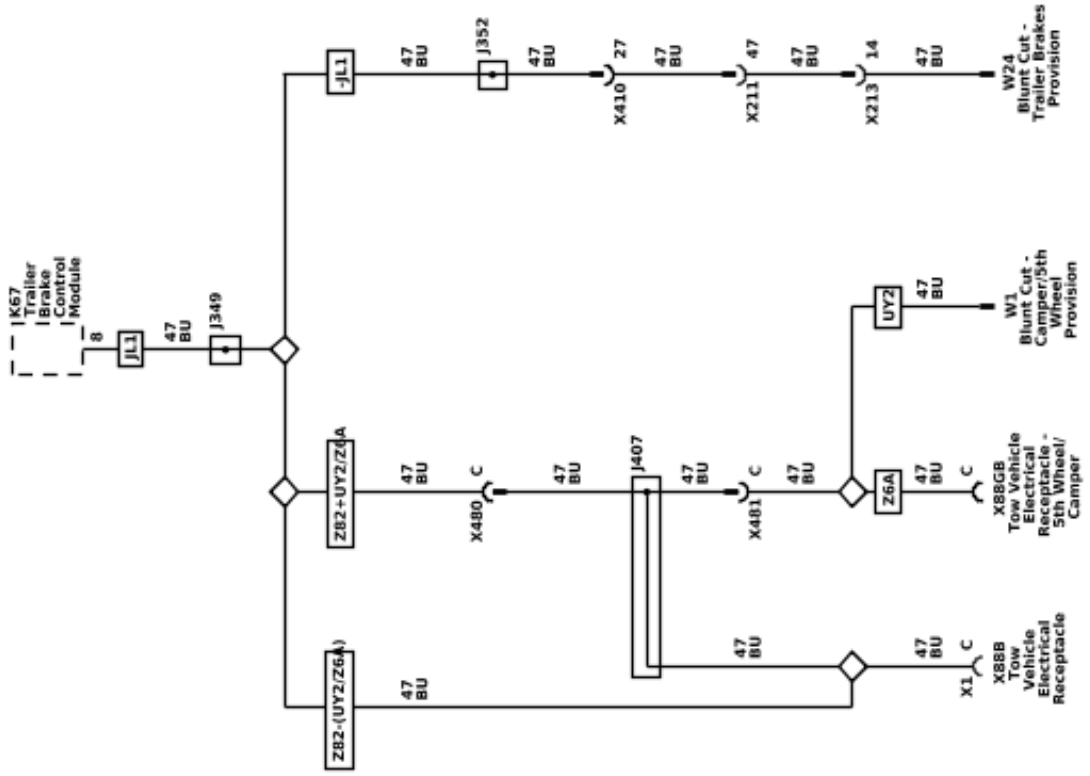


Trailering Systems Schematics (Trailer Connector Pins: A, B, D, E, F, G - Chassis Cab)

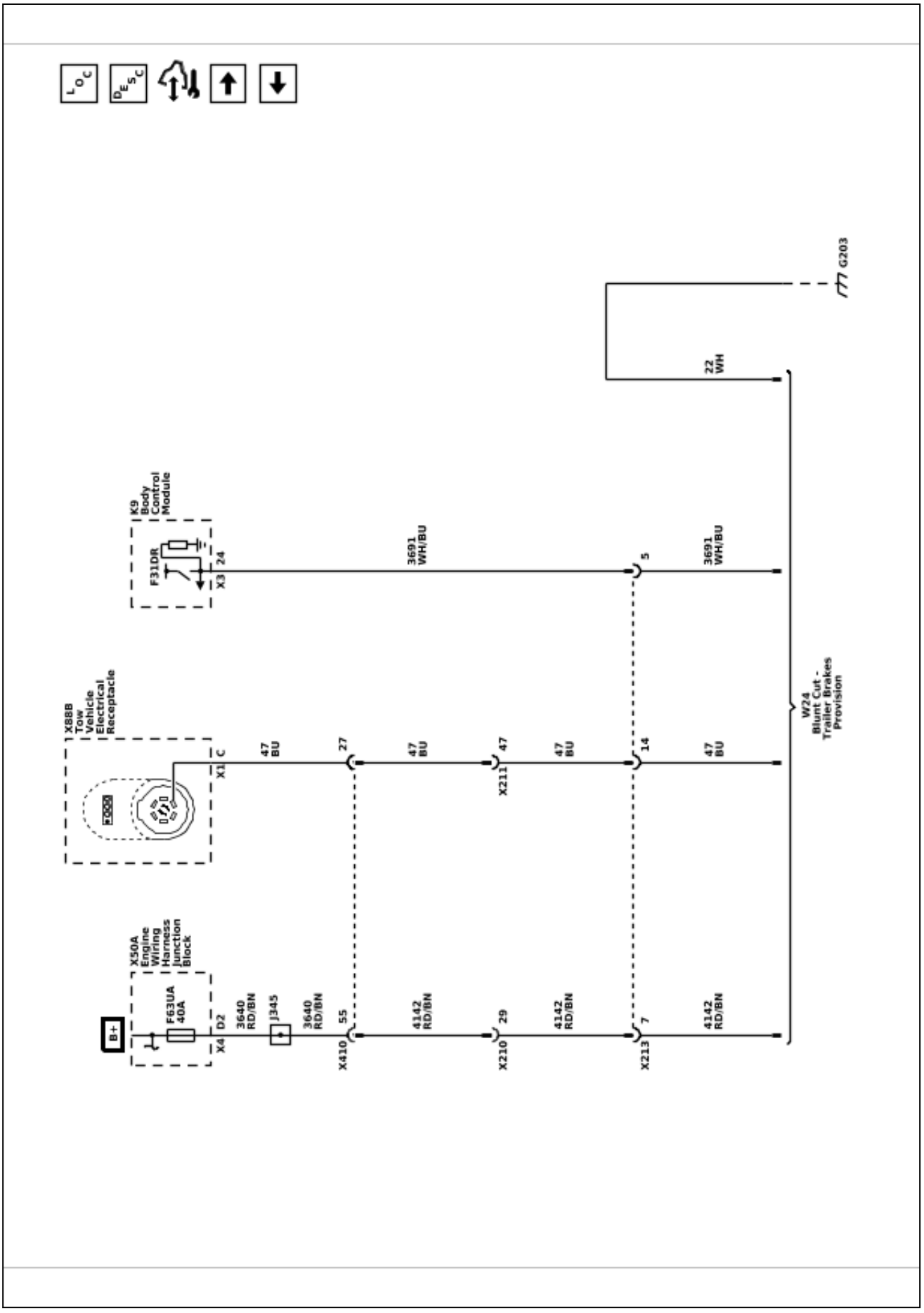


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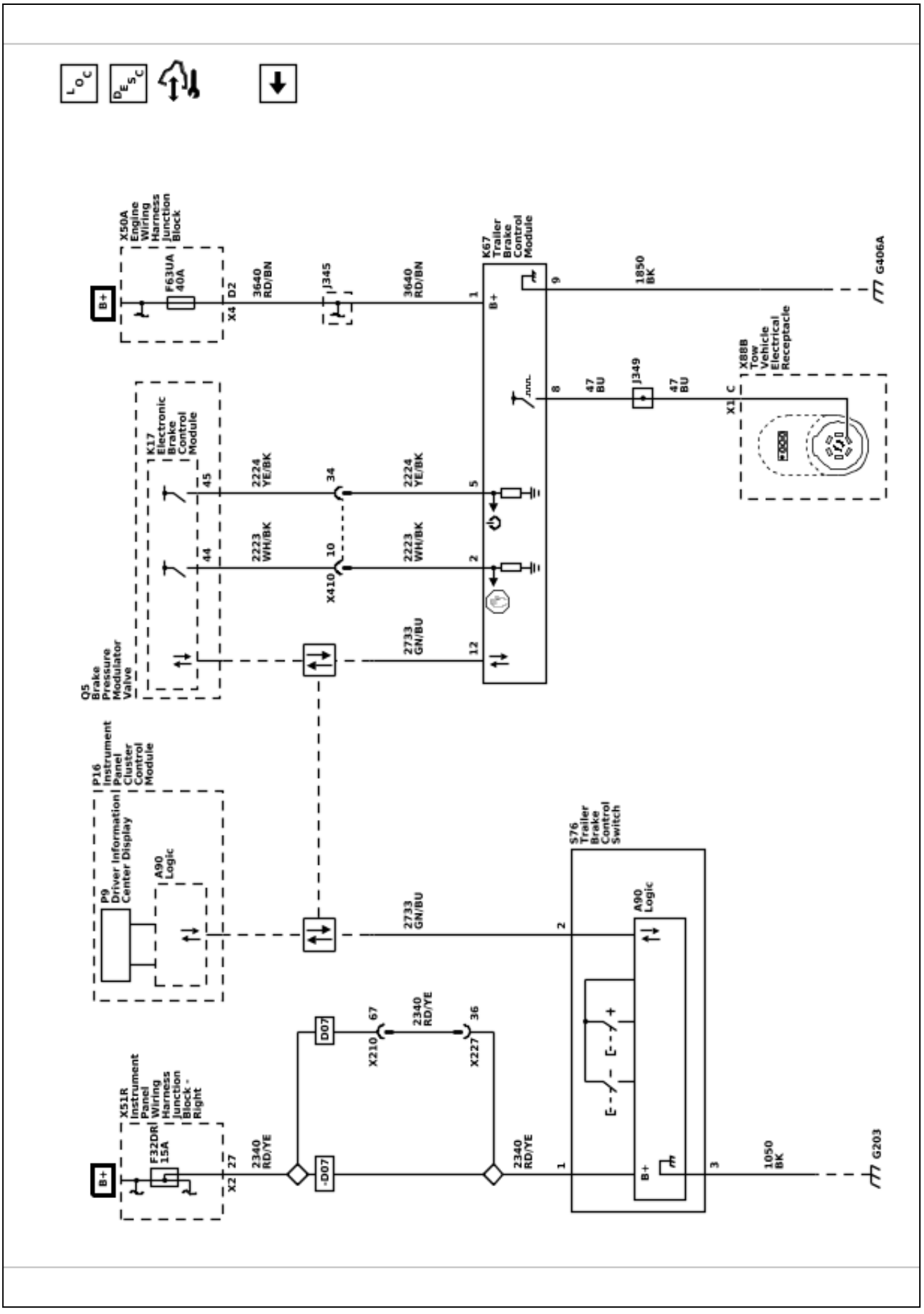
Trailering Systems Schematics (Trailer Connector Pin: C (Z82))



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



Trailering Systems Schematics (Trailer Brake (JL1))



Description and Operation

Trailering Description and Operation

Trailering System Overview

Begin the trailering system diagnosis with **Diagnostic System Check - Trailering**. The Diagnostic System Check - Trailering 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 Trailering 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.

Trailering Messages

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

Trailering Messages

Trailering 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 Power 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 Power 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.

Trailering Message	Description
{JL1} Trailer Brakes Detected	The K67 Trailer Brake Power 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:

- K17 Electronic Brake 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 K17 Electronic Brake Control Module receives vehicle braking force data and/or data from the application of the manual trailer brake slide lever. The Electronic Brake 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 Power 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 K17 Electronic Brake 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 Electronic Brake Control Module LIN bus 2 circuit. The K17 Electronic Brake Control Module, K67 Trailer Brake Power Control Module, and the S76 Trailer Brake Control Switch all communicate through the Electronic Brake 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 Contol (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 it 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 Trailering 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 trailering app in the vehicle's center stack.

Trailering 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 unwieldily 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
 5166189	*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 Trailering 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 Trailering 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 Electronic Brake 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 Electronic Brake 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.

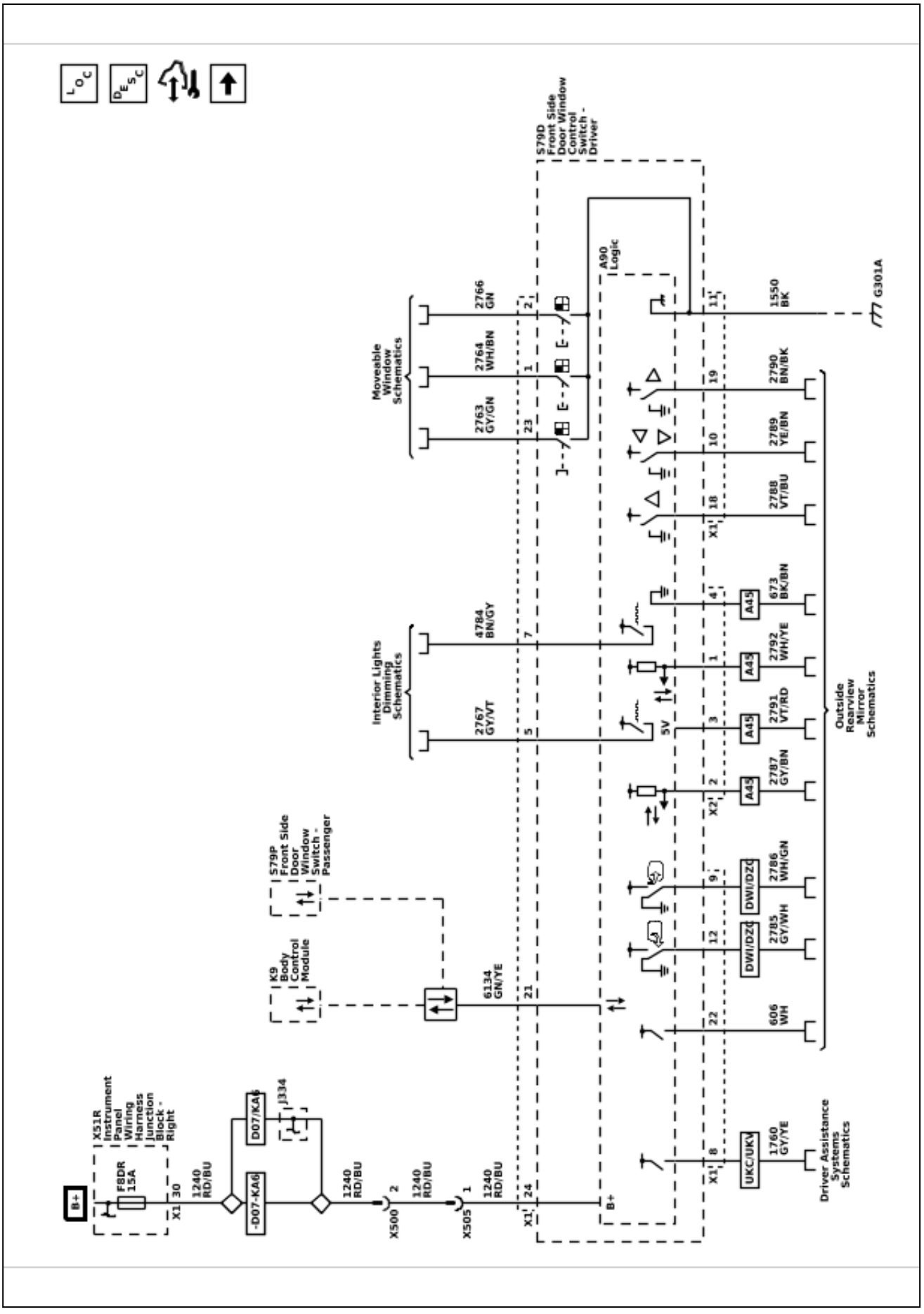
Note: A combination trailer lighting and trailer brake tool can be created on the same mounting board.

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

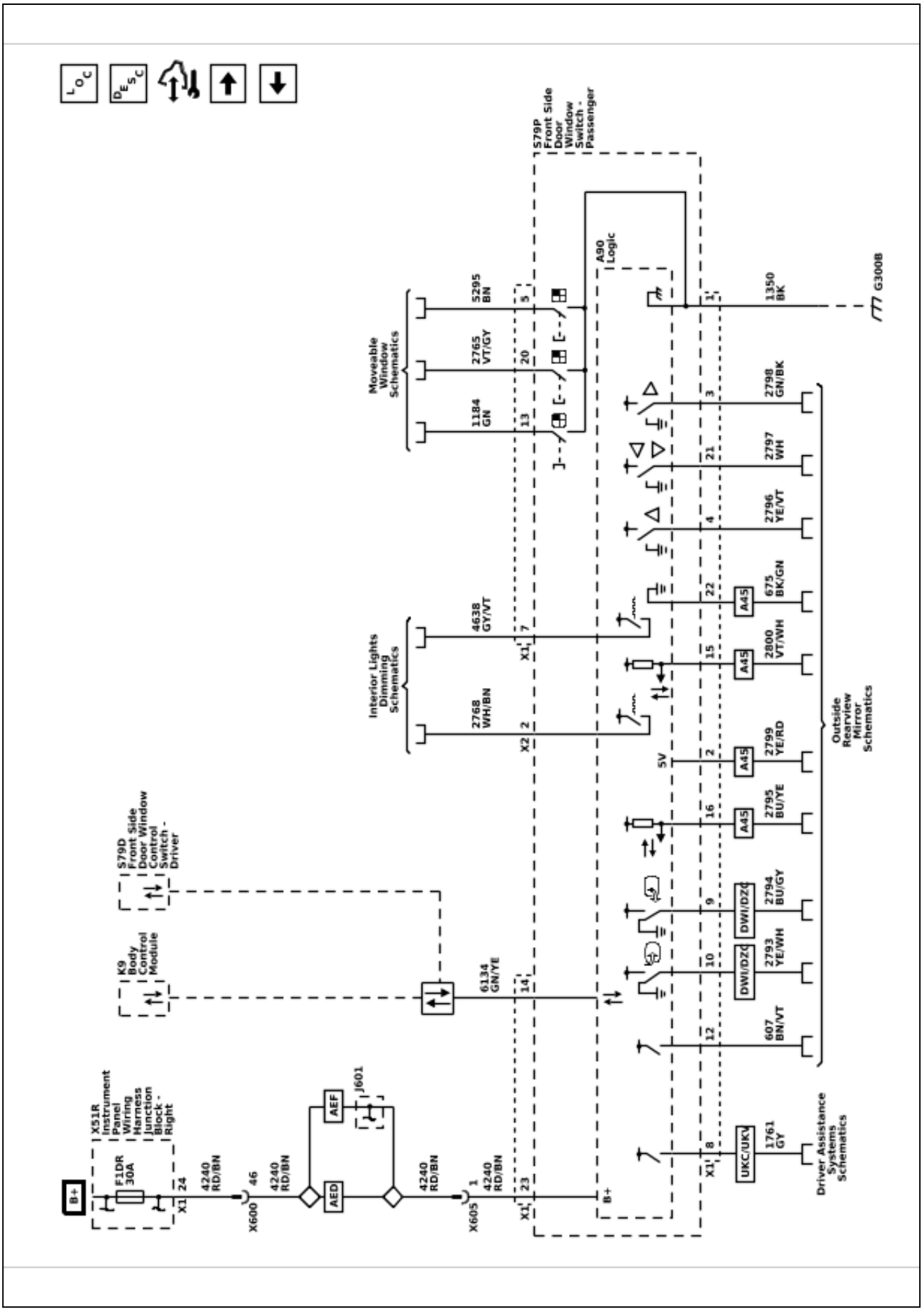
Schematic and Routing Diagrams

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



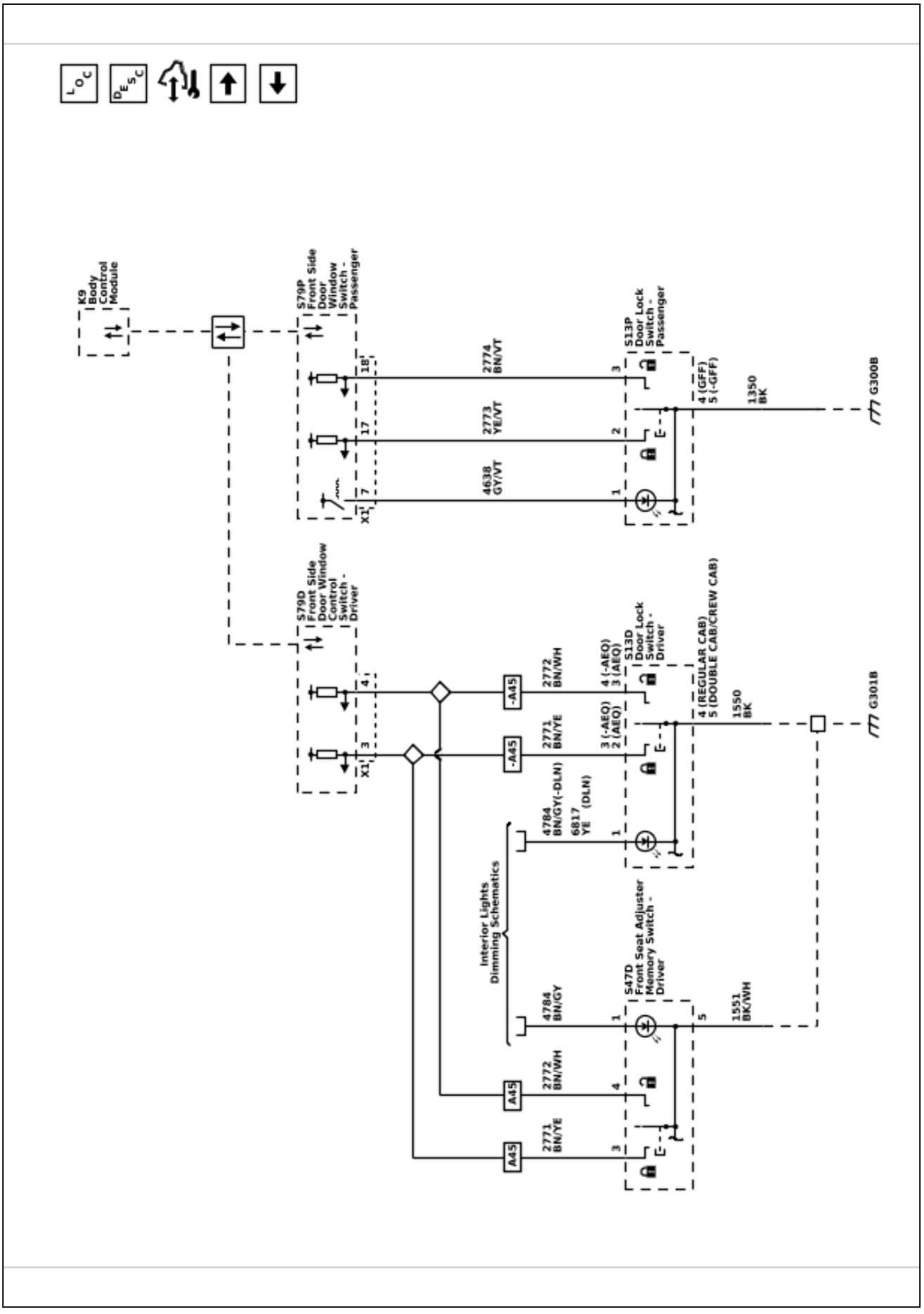
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Door Lock/Indicator Schematics (Passenger Door Switch Panel Control Module Power, Ground, Serial Data, and Subsystem References)

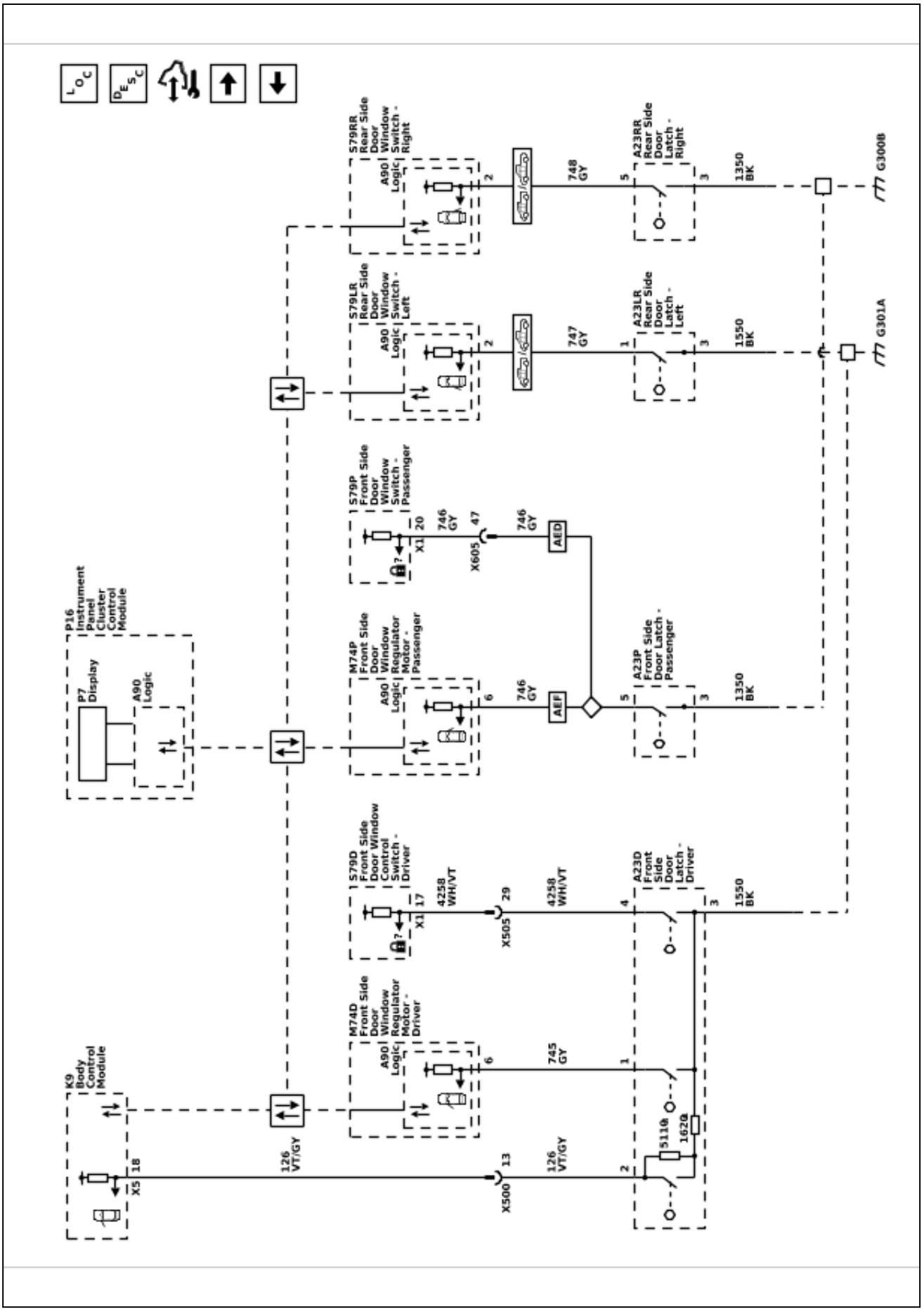


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Door Lock/Indicator Schematics (Door Lock Switches and Indicators)

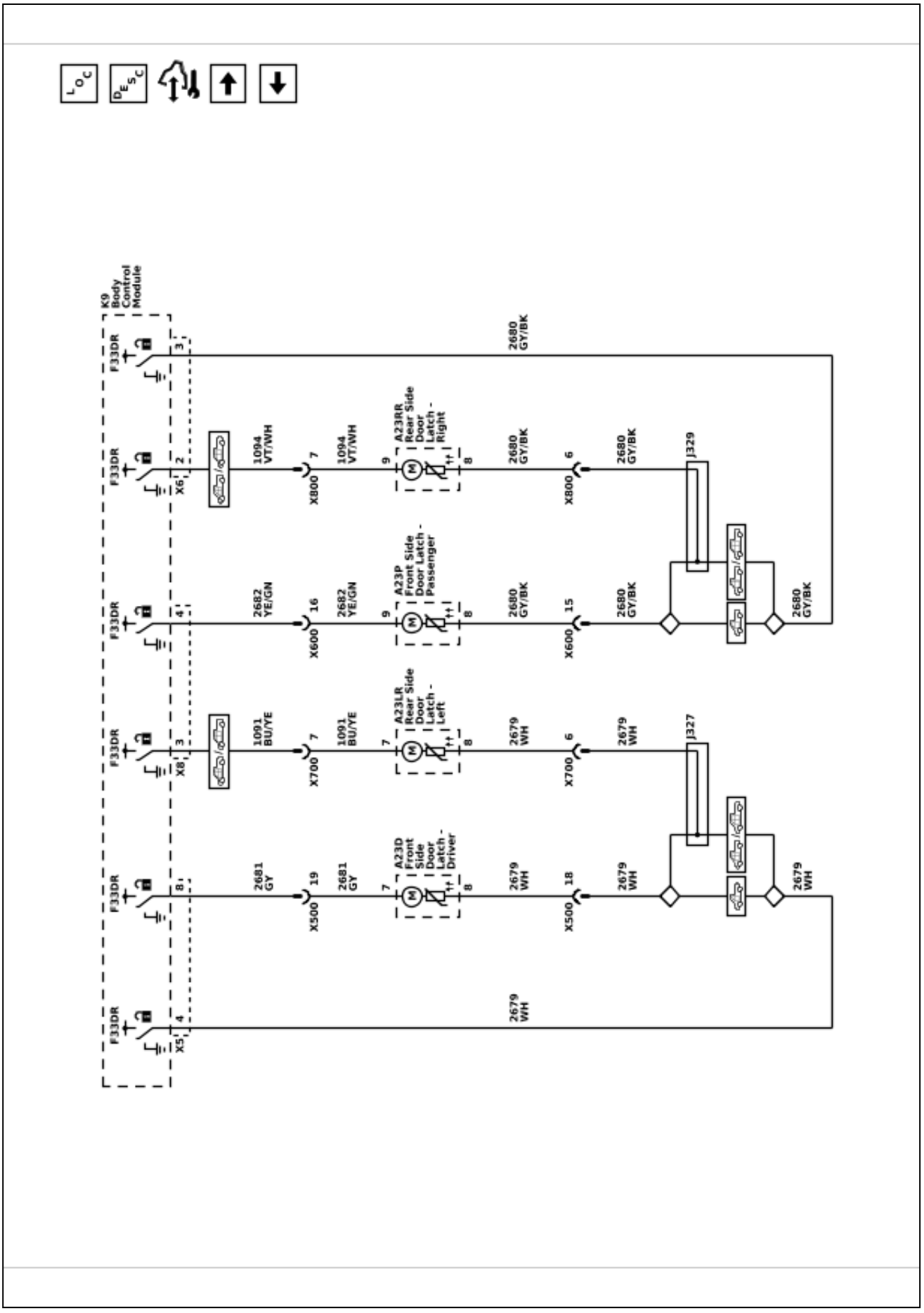


Door Lock/Indicator Schematics (Ajar Switches, Lock Status and Child Lock Status)



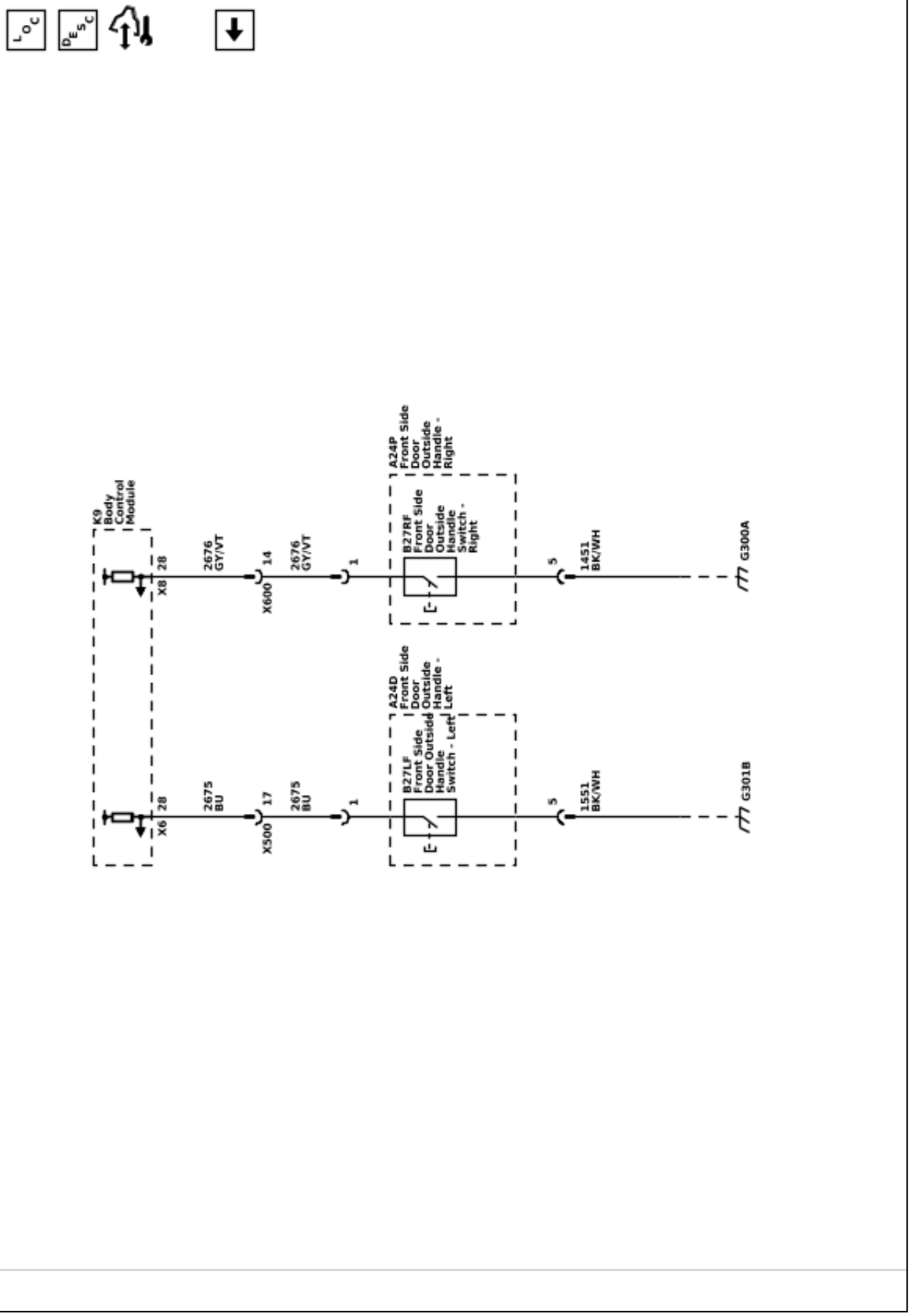
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Door Lock/Indicator Schematics (Actuators)

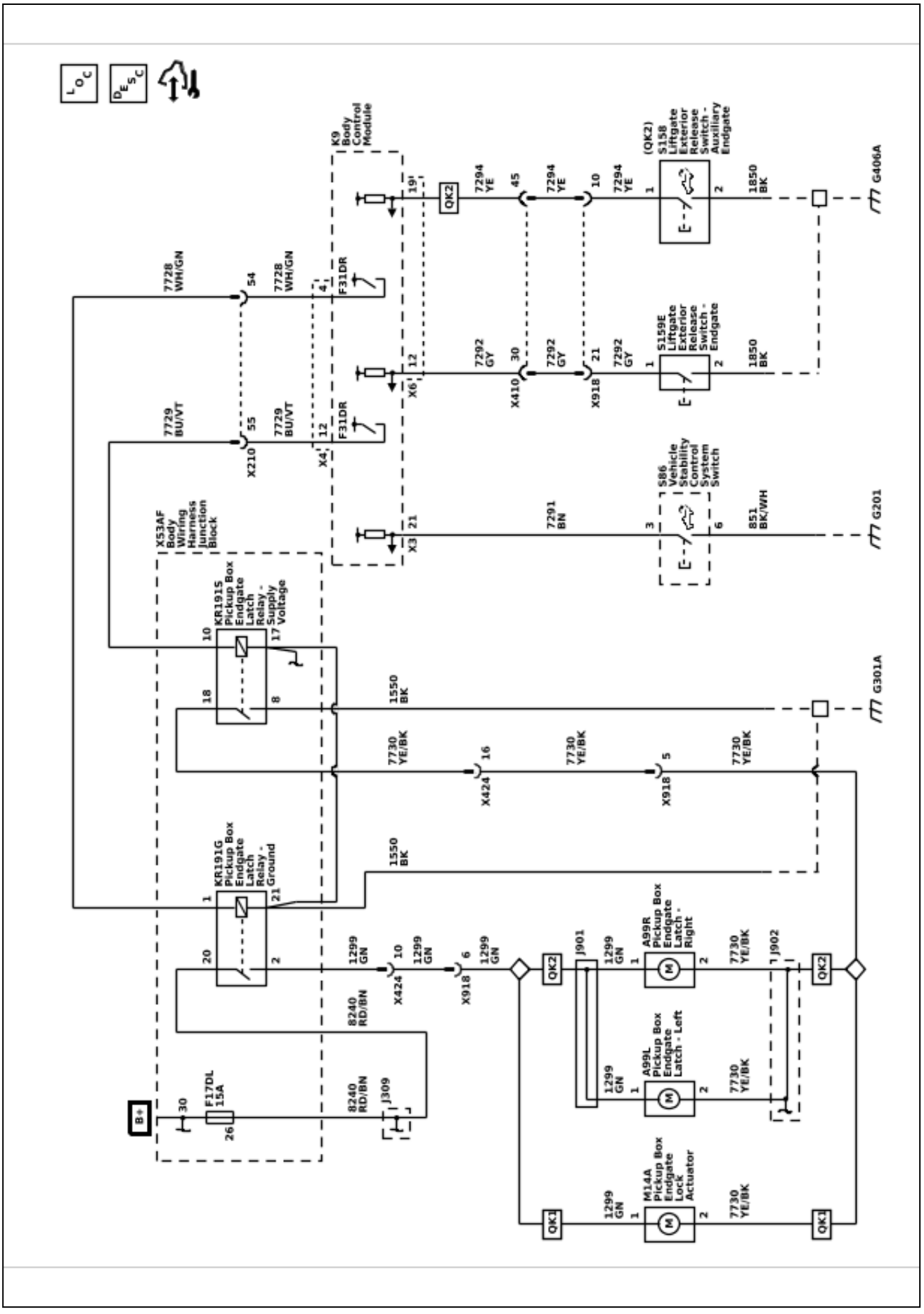


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Door Lock/Indicator Schematics (Door Handle Switches)

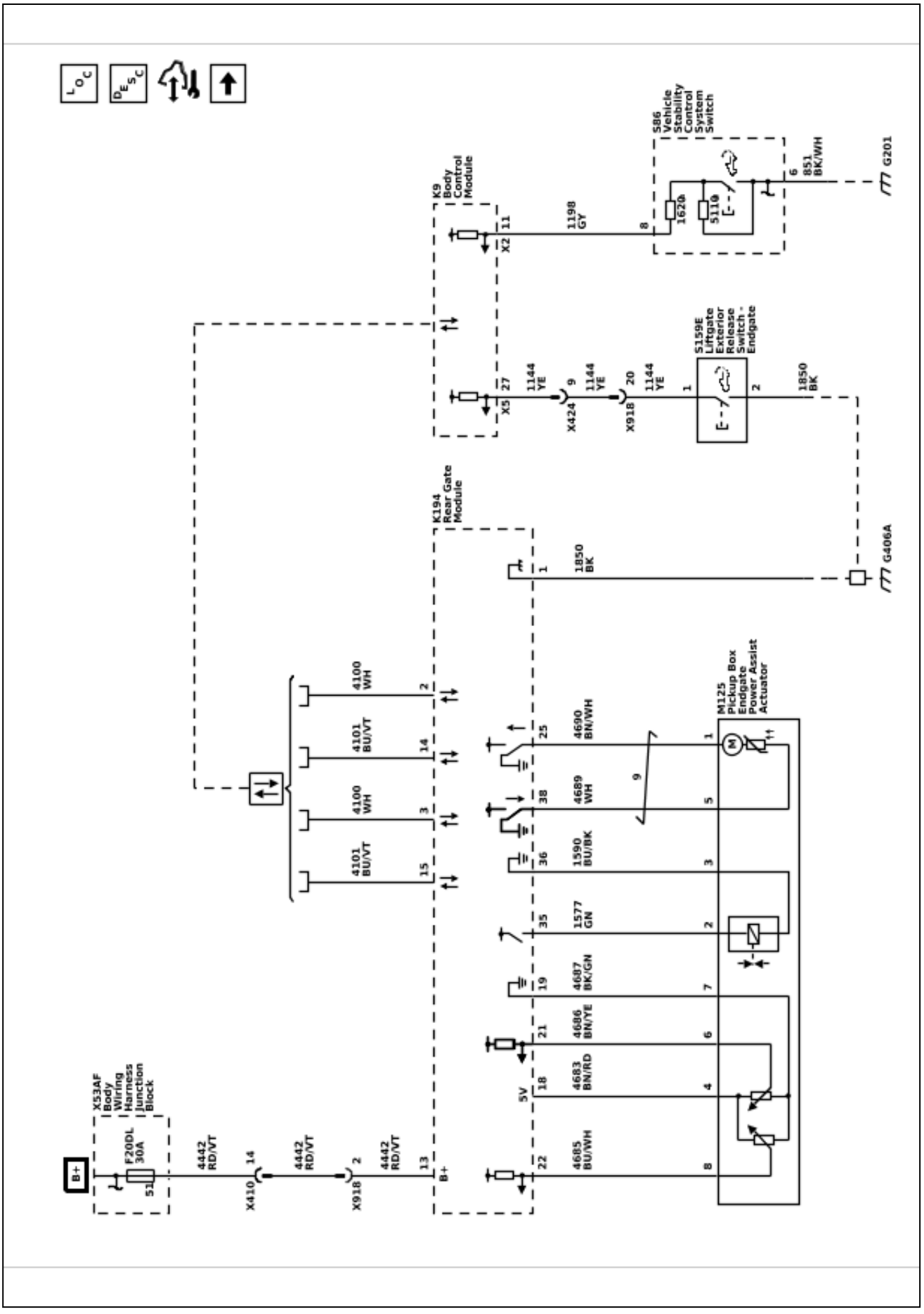


Release Systems Schematics (Endgate Release (QT5))

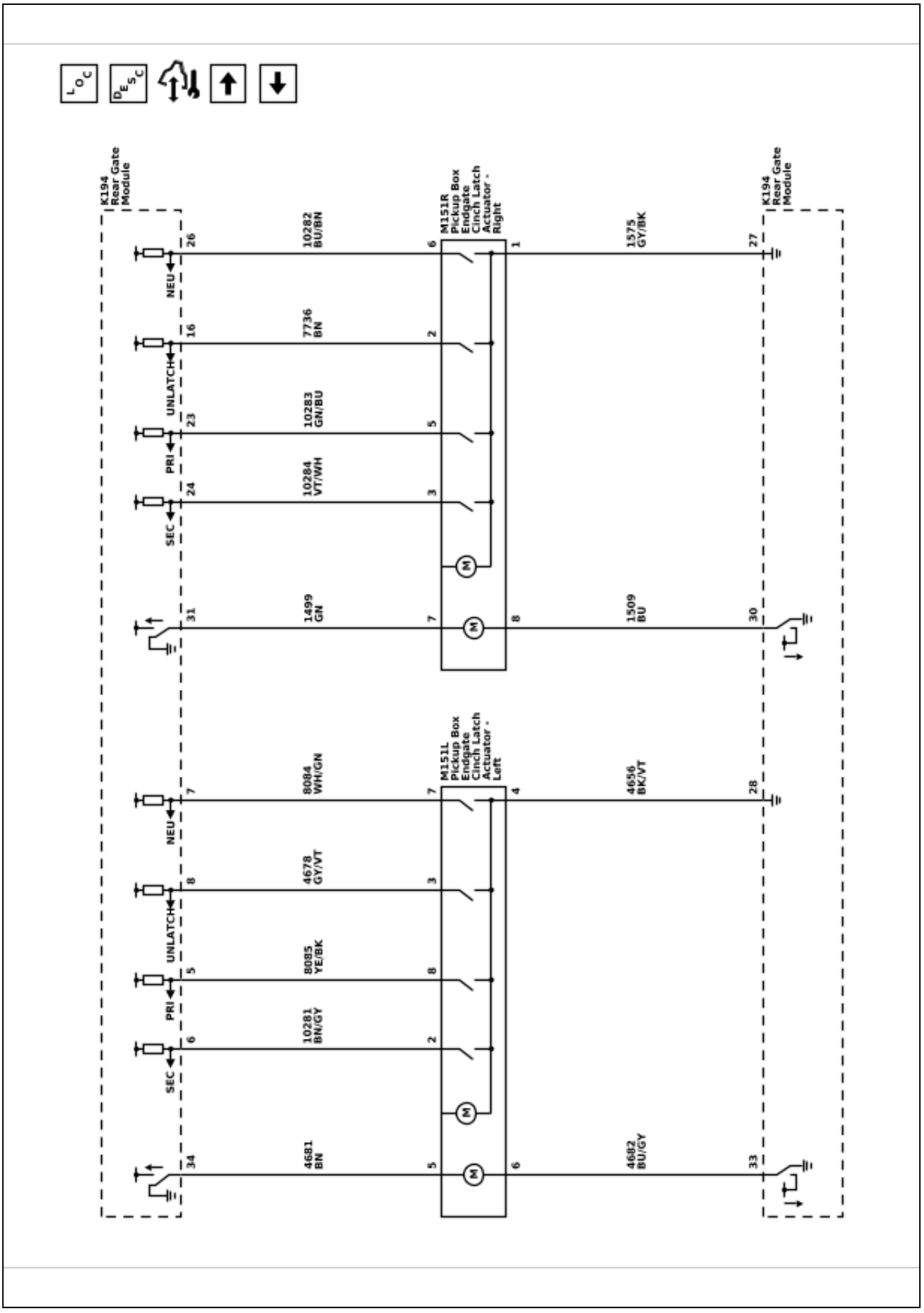


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Endgate Schematics (Power Endgate Controls (QT6))

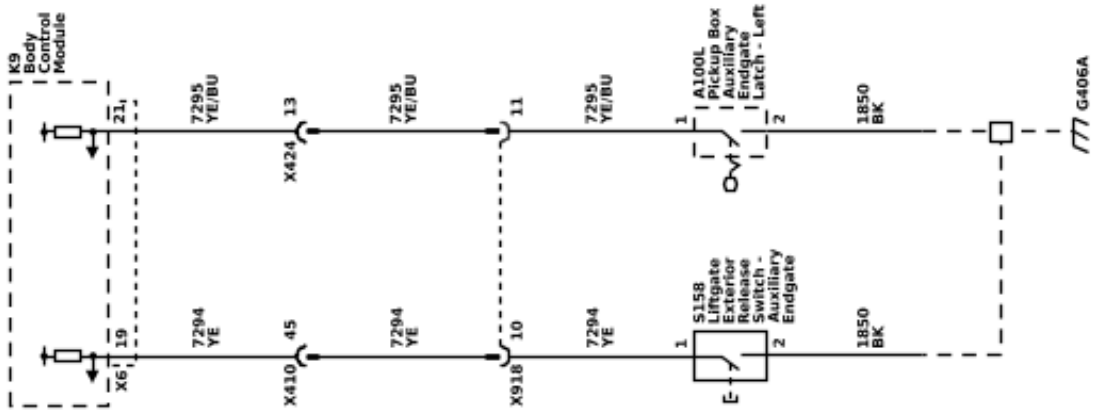


Endgate Schematics (Power Endgate Latches (QT6))

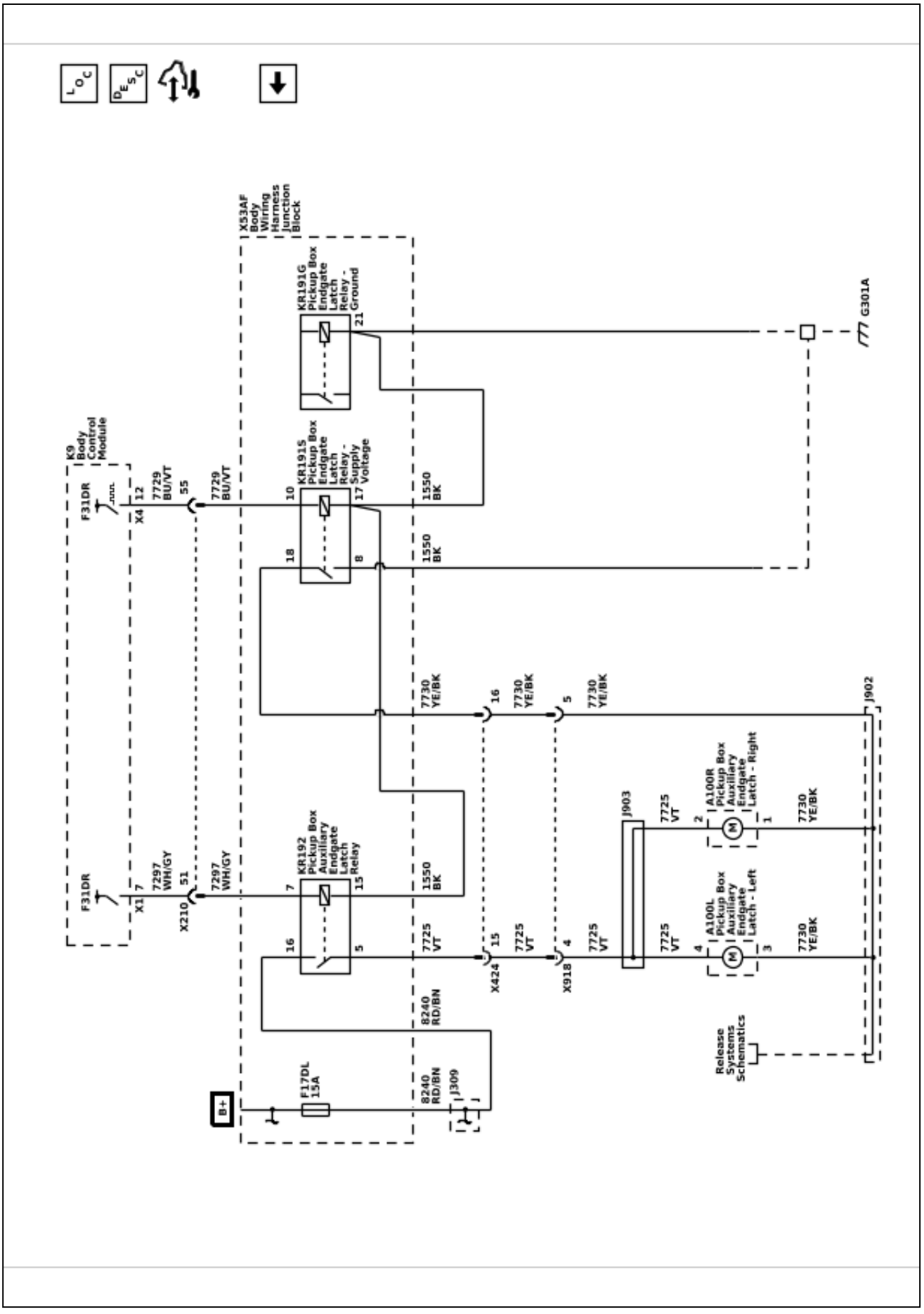


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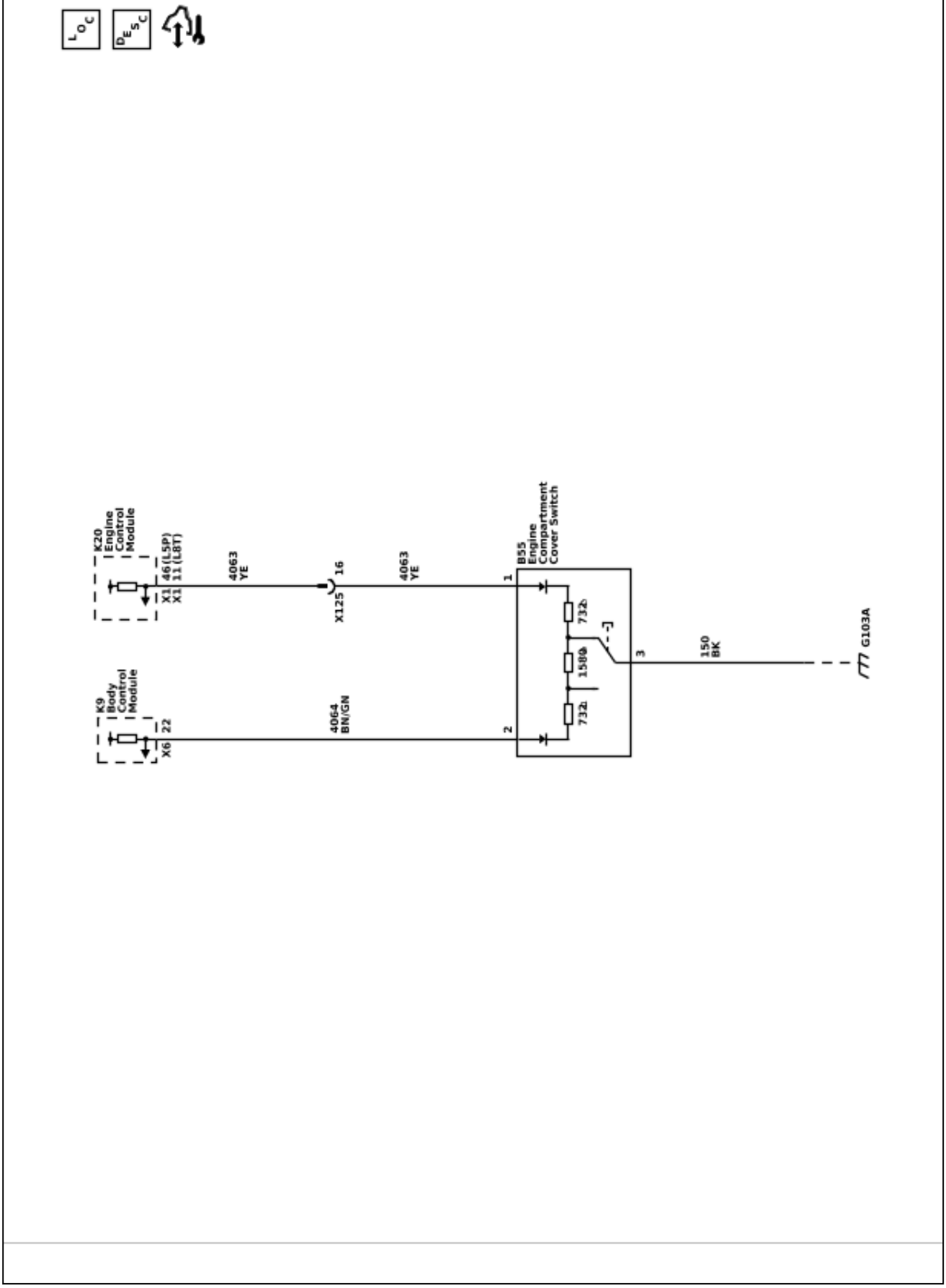
Endgate Schematics (Auxiliary Endgate Latch Controls and Switches (QK2))



Endgate Schematics (Auxiliary Endgate Latch Motors (QK2))



Hood Latch Schematics (Hood Ajar 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 then 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 MutiPro 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** 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 MutiPro 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** 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

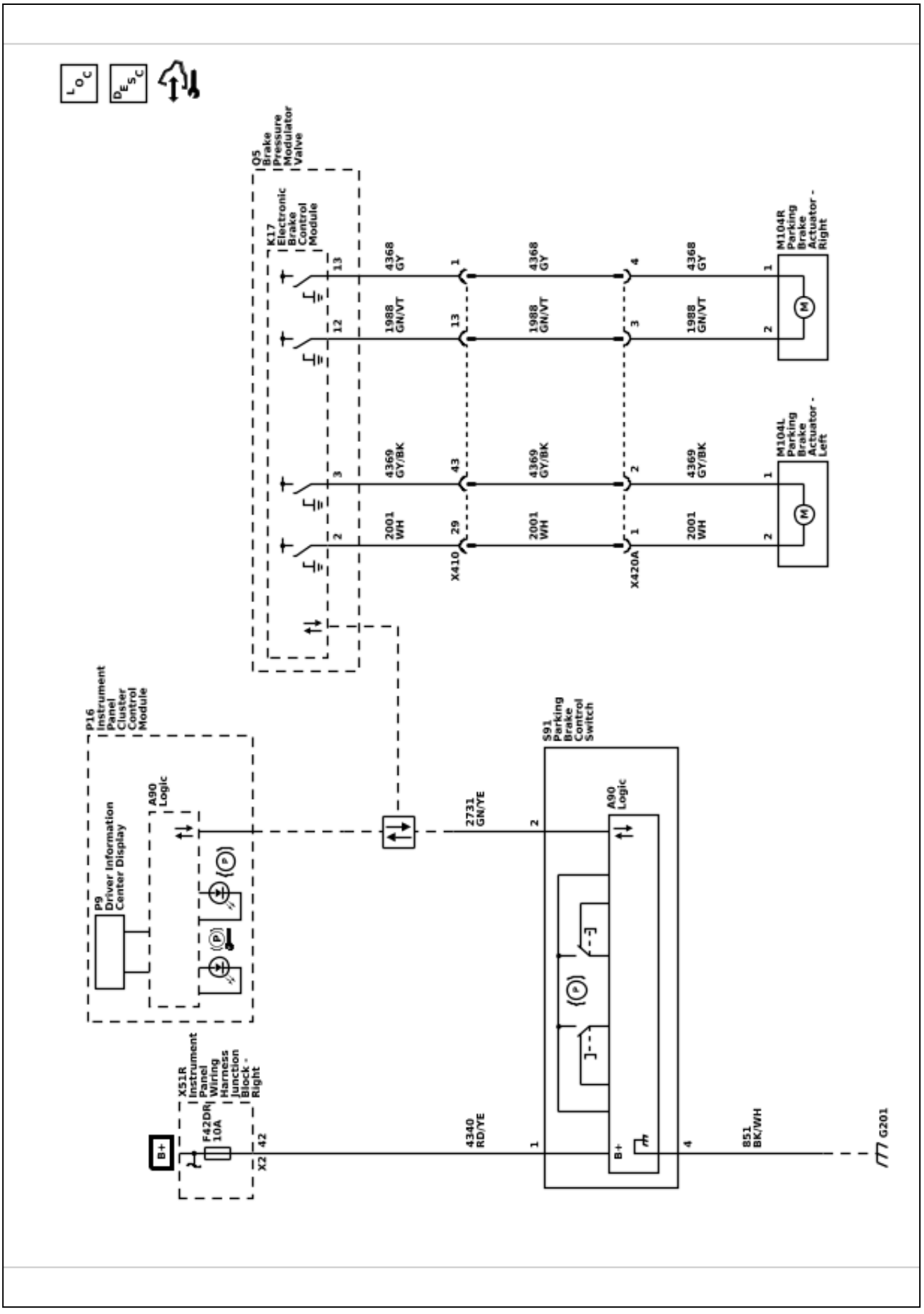
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Brakes

Park Brake

Schematic and Routing Diagrams

Park Brake System Schematics (Electric Park Brake)



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 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 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 park brake shoes.

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

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Driver Information and Entertainment

Image Display Cameras

Schematic and Routing Diagrams

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

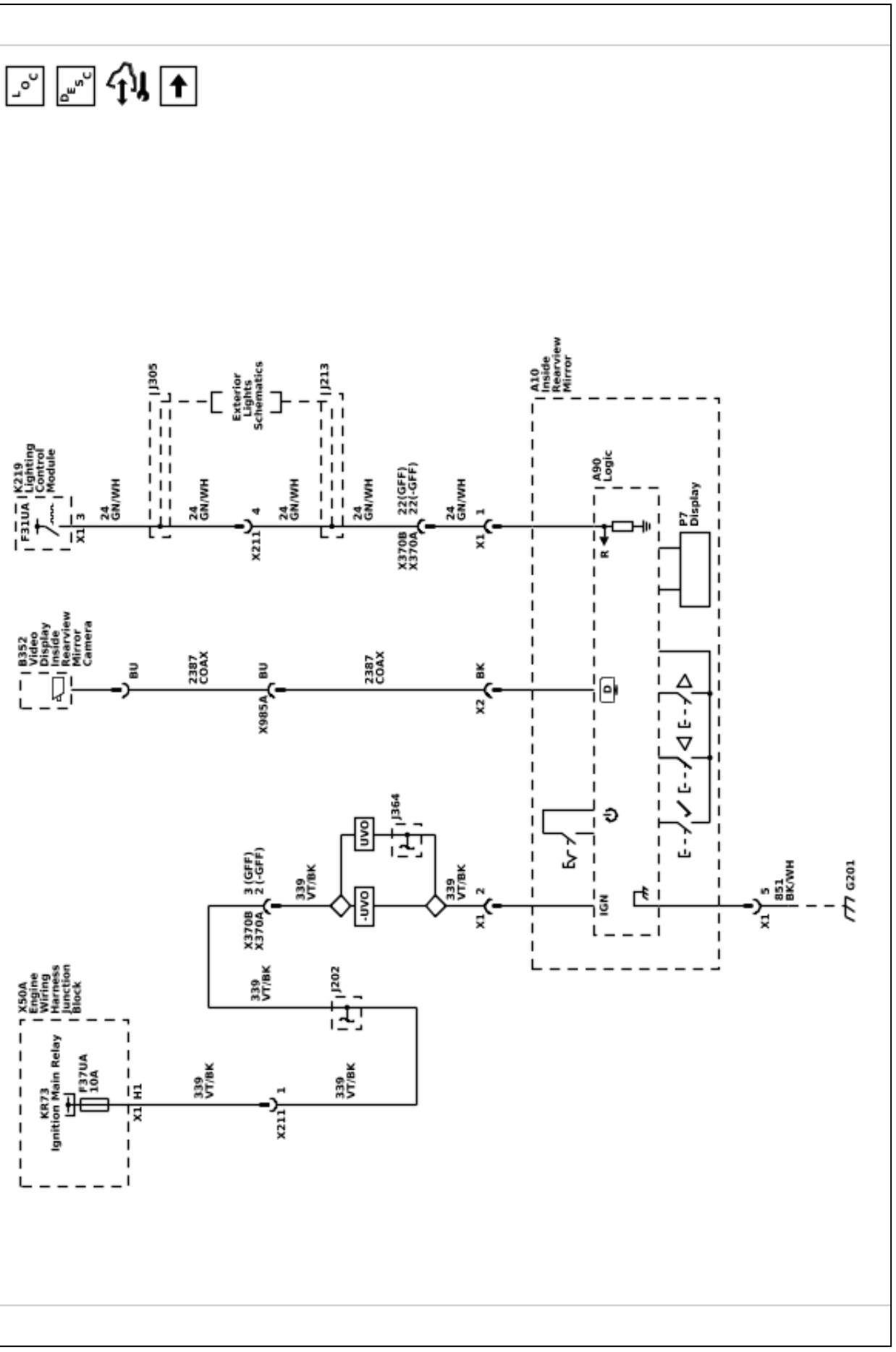
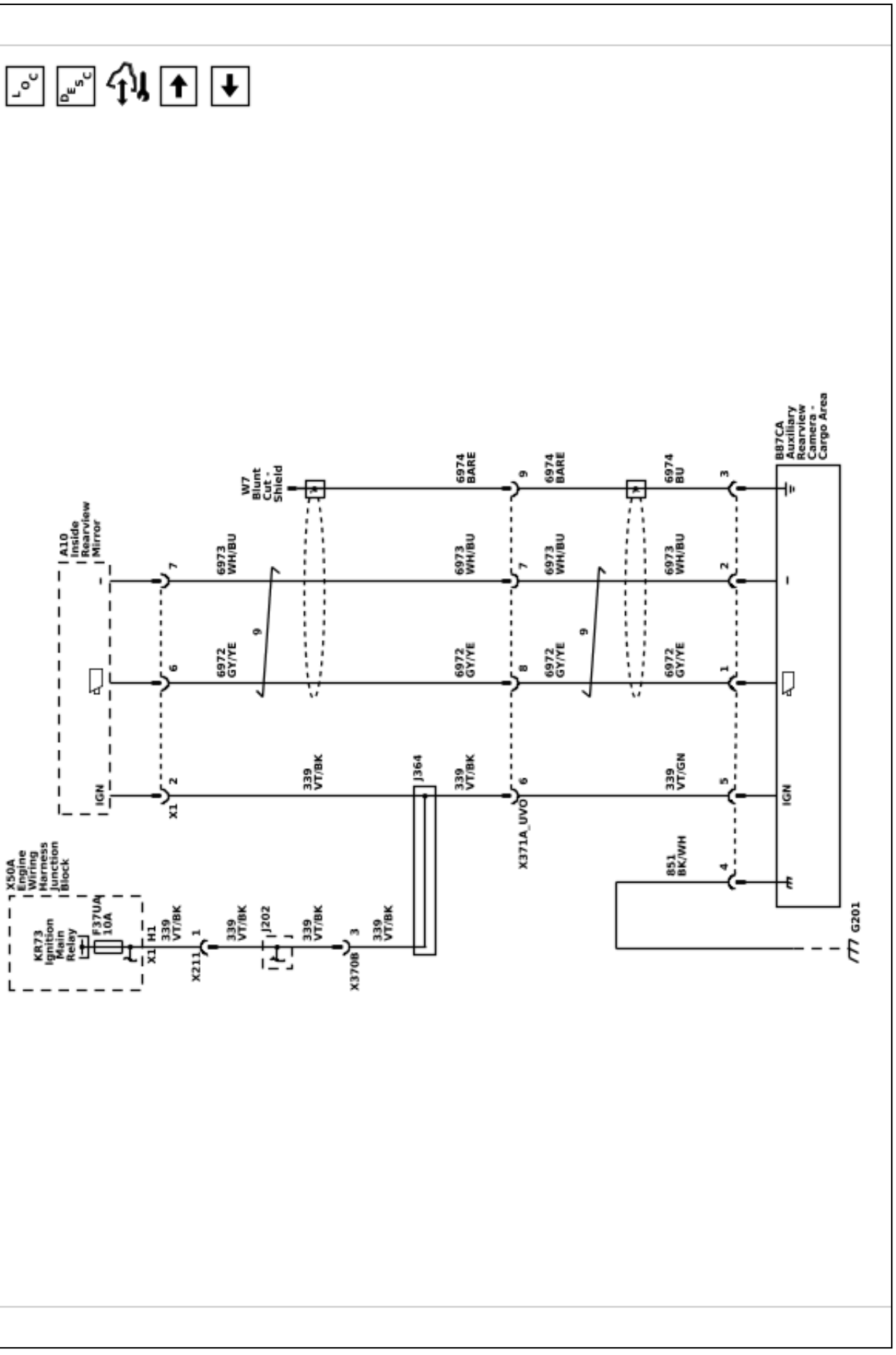


Image Display Camera Schematics (Inside Rearview Mirror Camera (UVO))



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

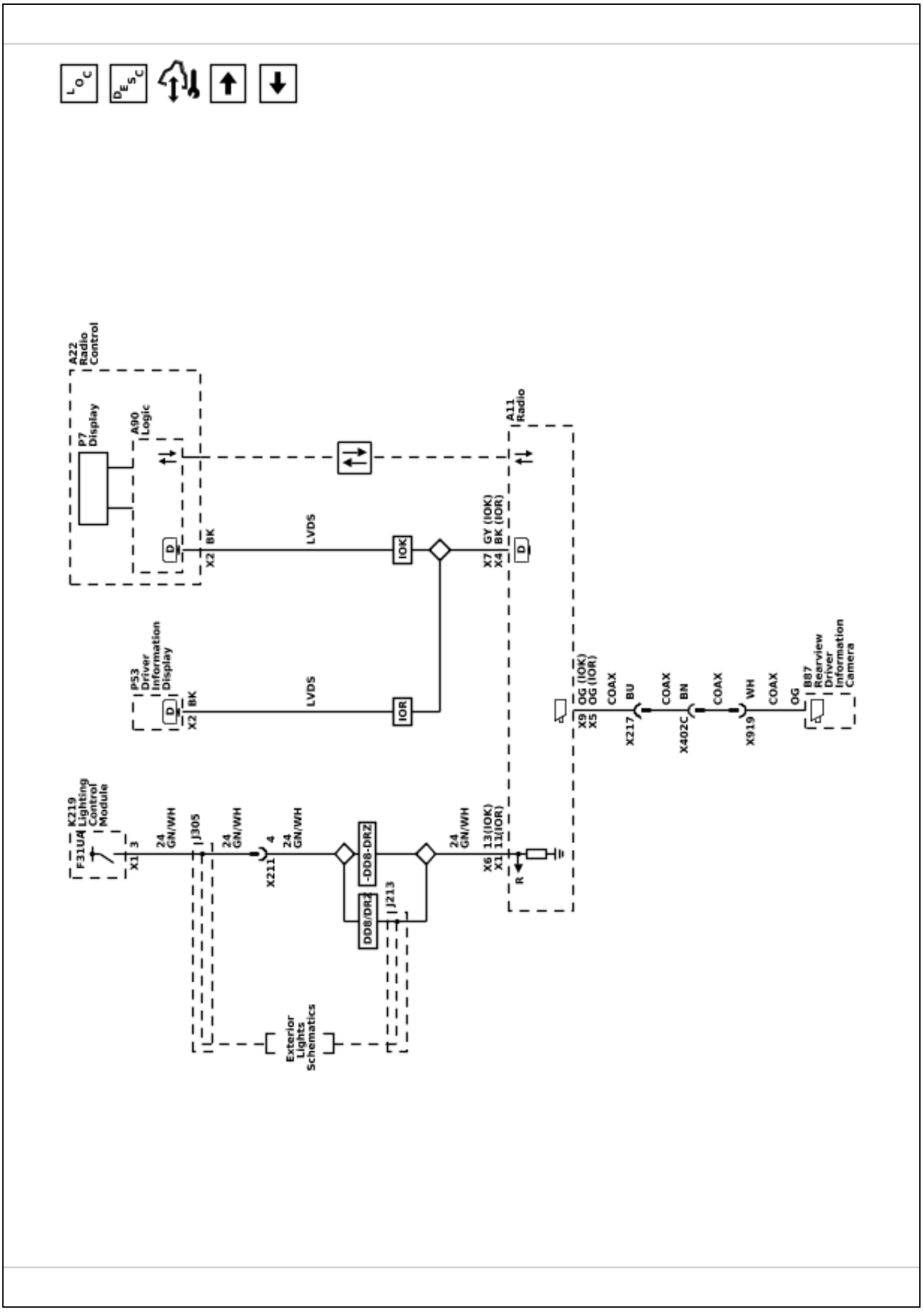
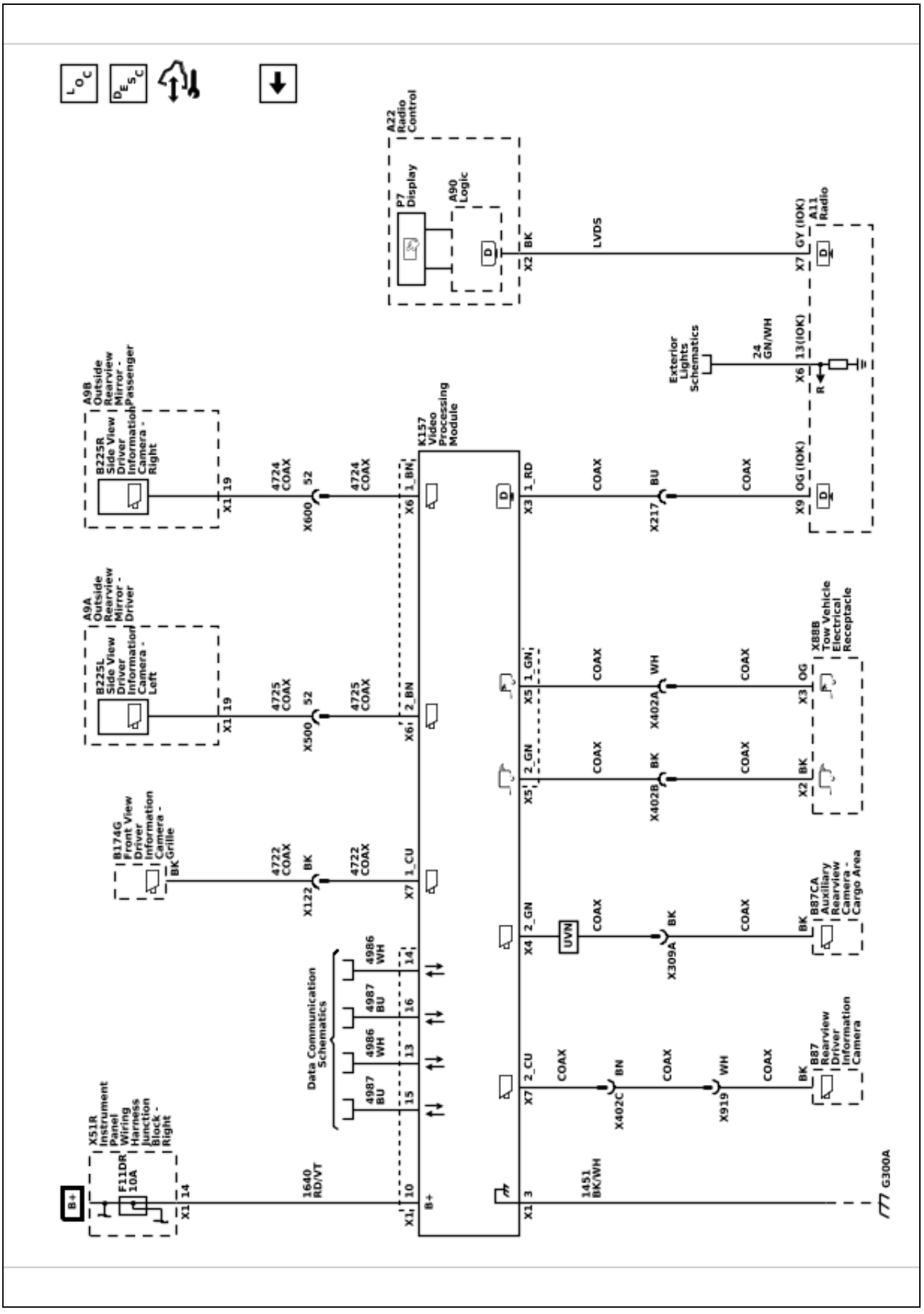


Image Display Camera Schematics (Surround Vision (UV2))



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.

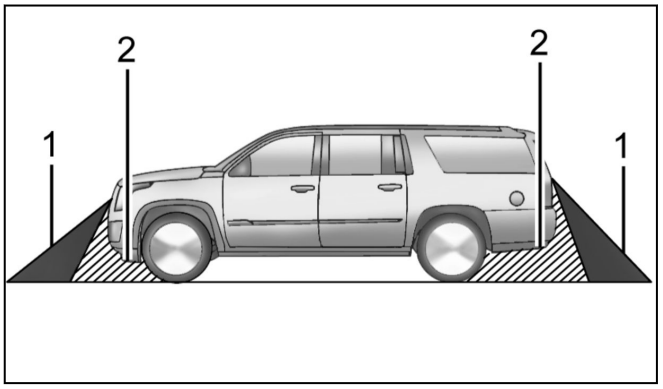
The following conditions may cause a degraded rear vision camera image:

- 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.

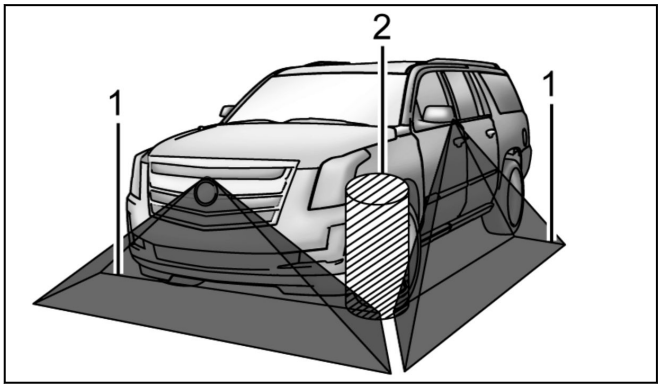
Surround Vision Camera Description and Operation

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

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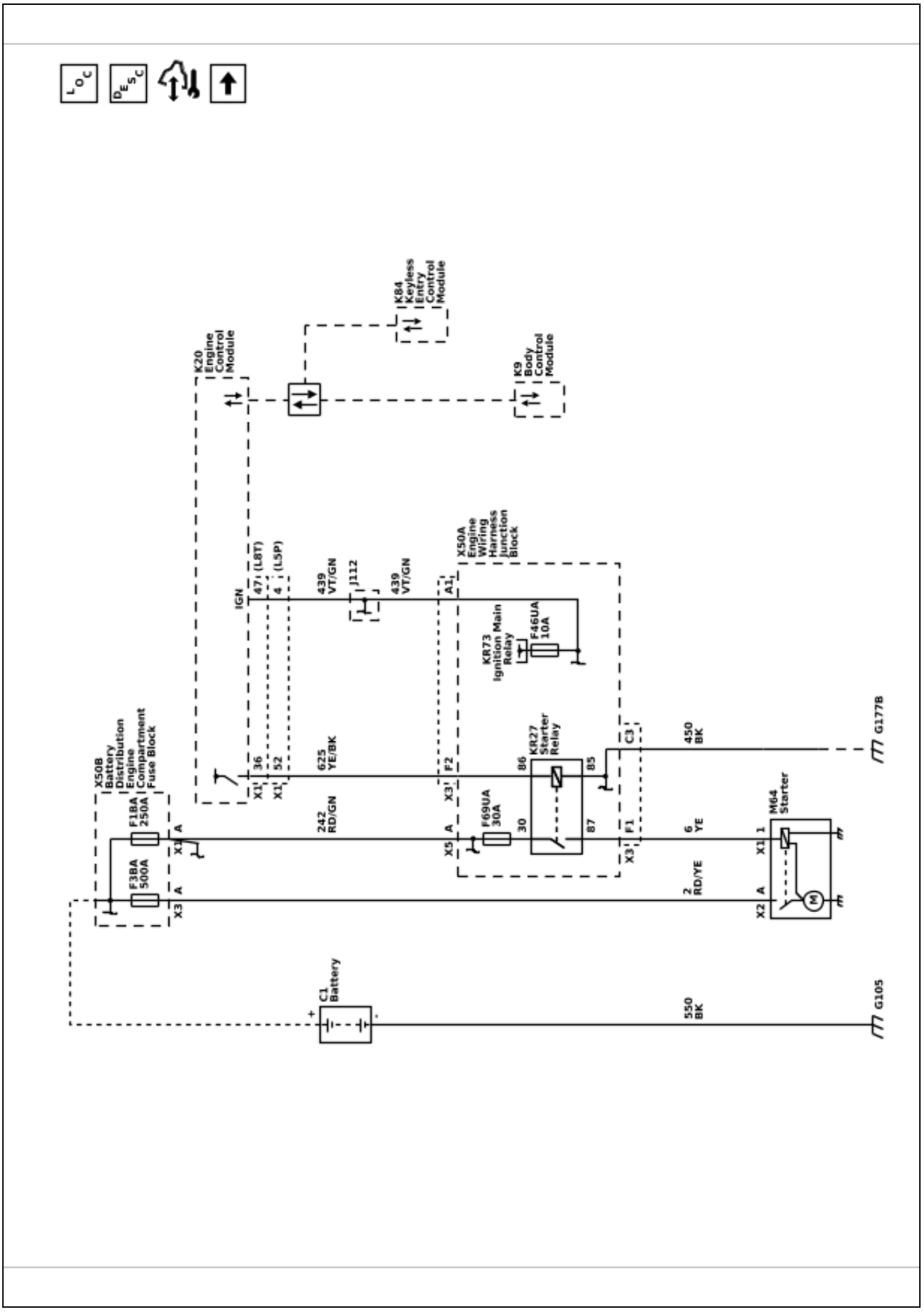
Engine/Propulsion

Starting, Charging, and Low Voltage Energy Storage

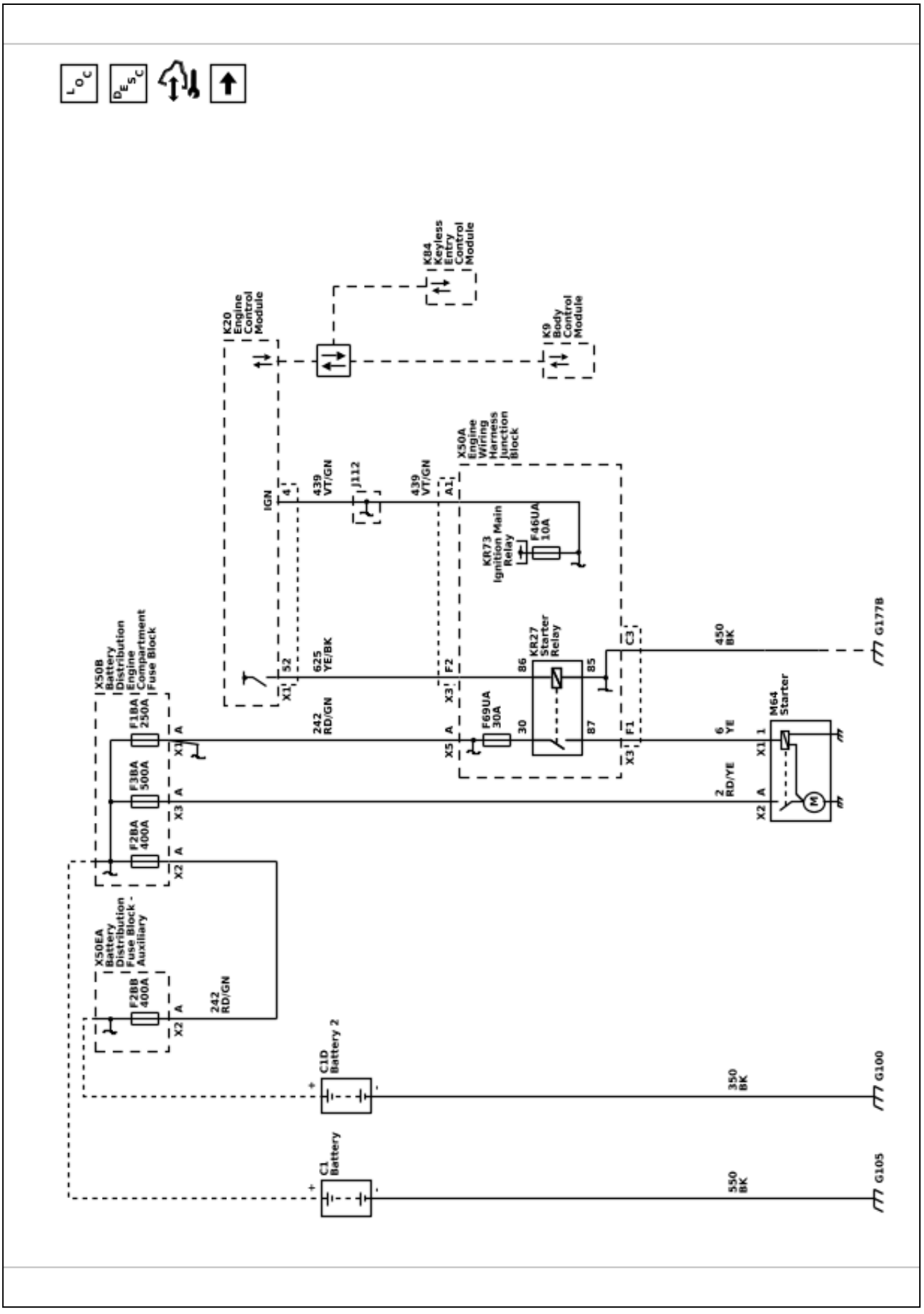
Schematic and Routing Diagrams

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Starting and Charging Schematics (Starting (L8T))

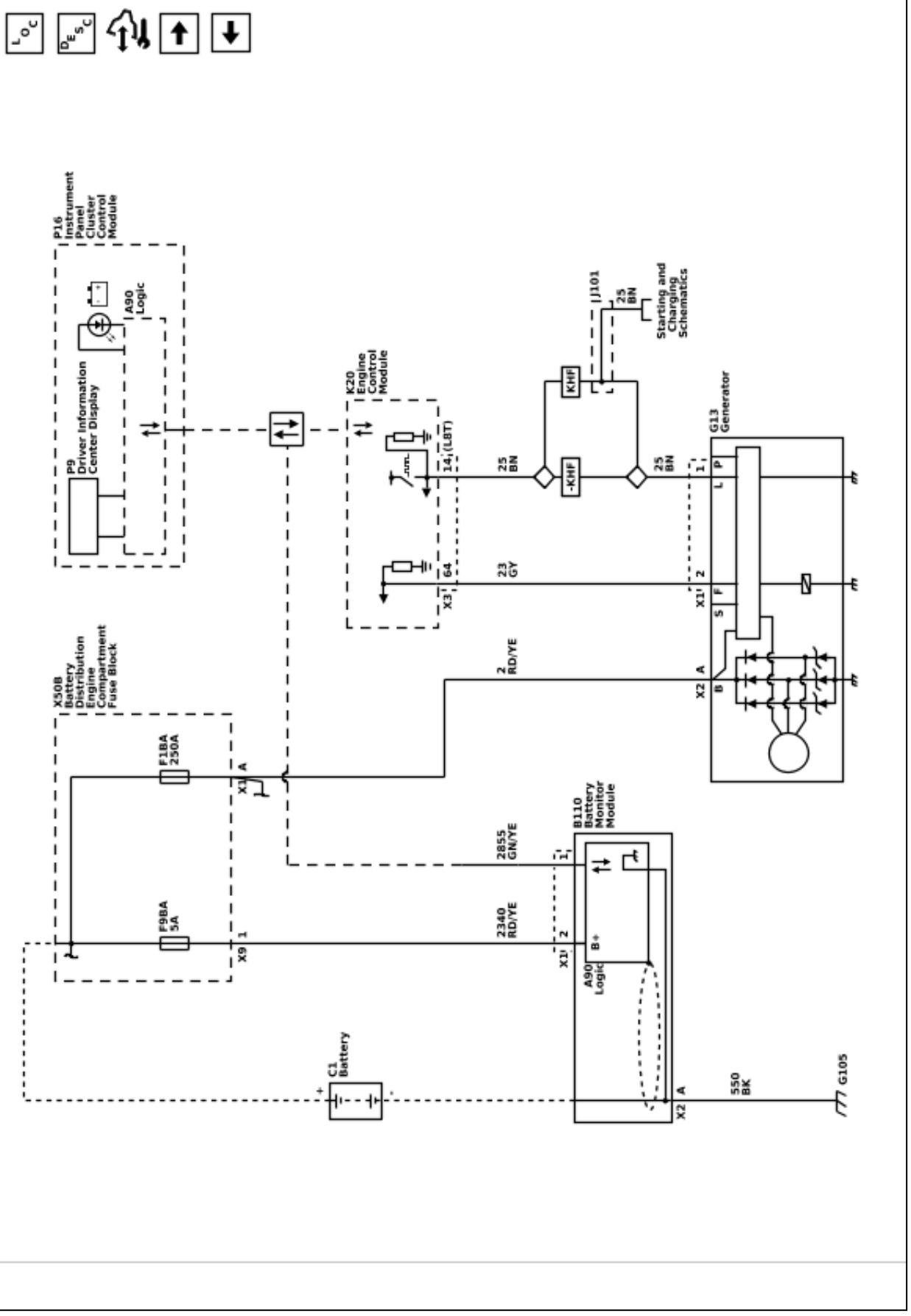


Starting and Charging Schematics (Starting (L5P))

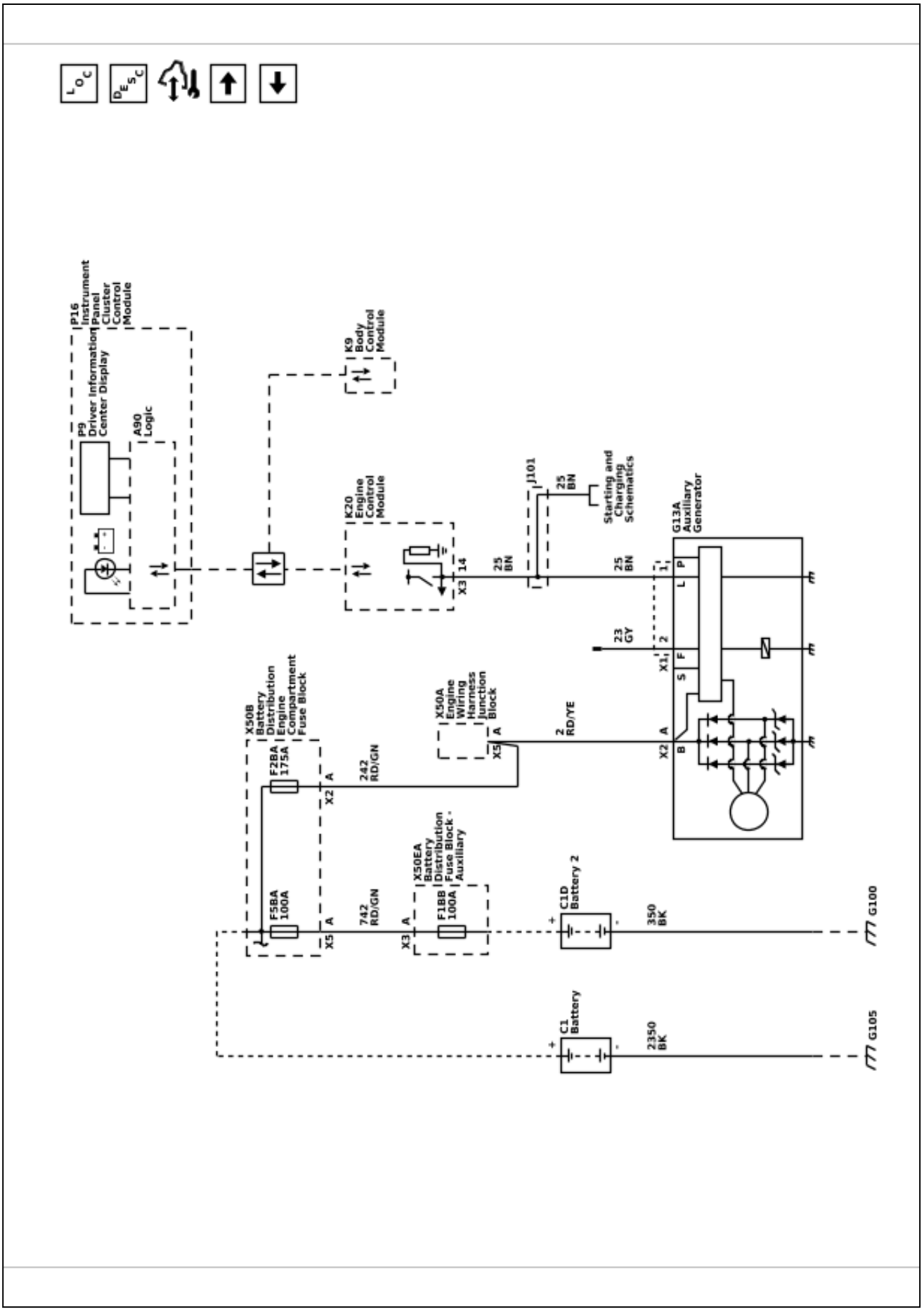


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Starting and Charging Schematics (Charging (L8T))

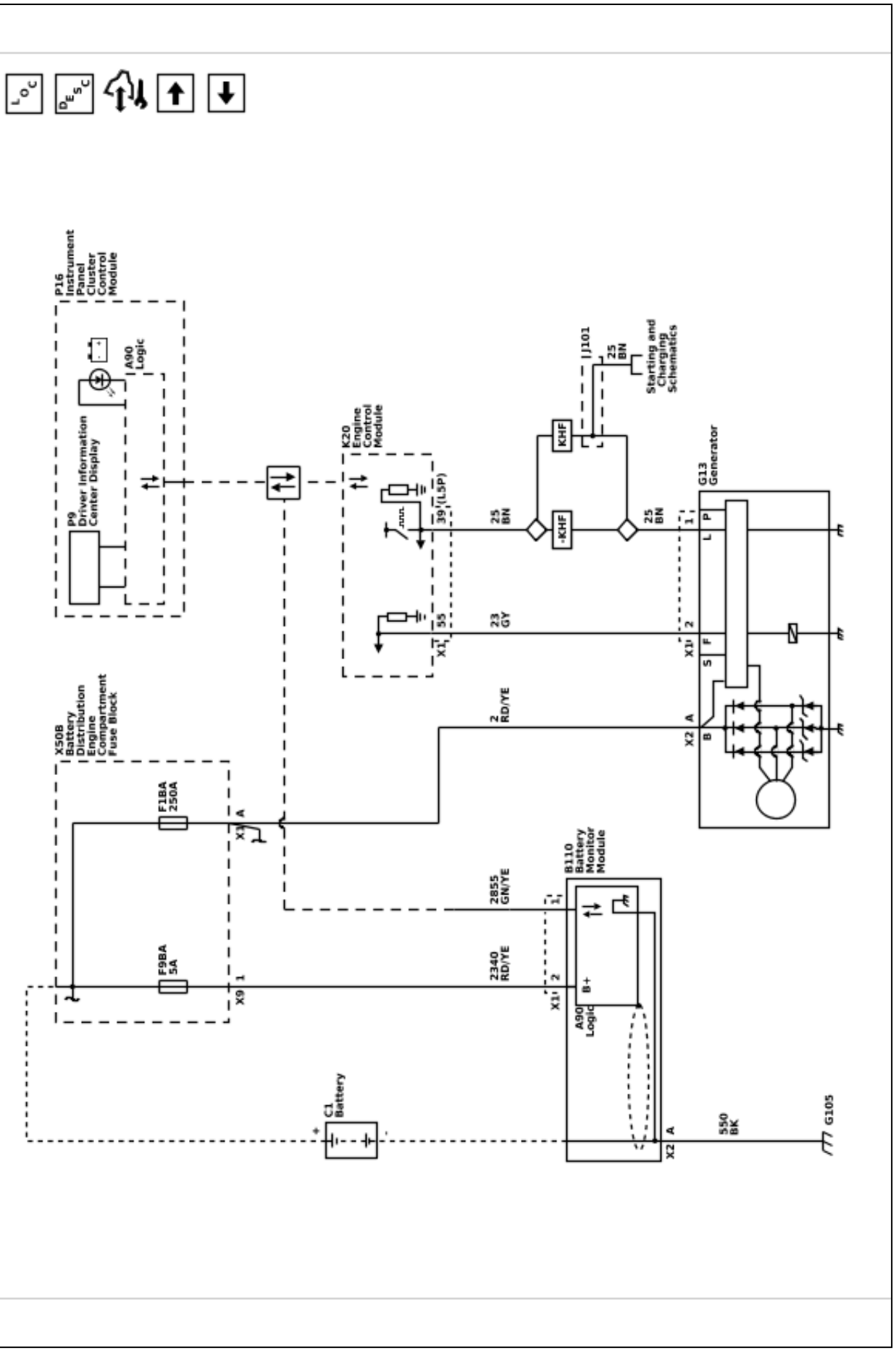


Starting and Charging Schematics (Charging Auxiliary (L8T))

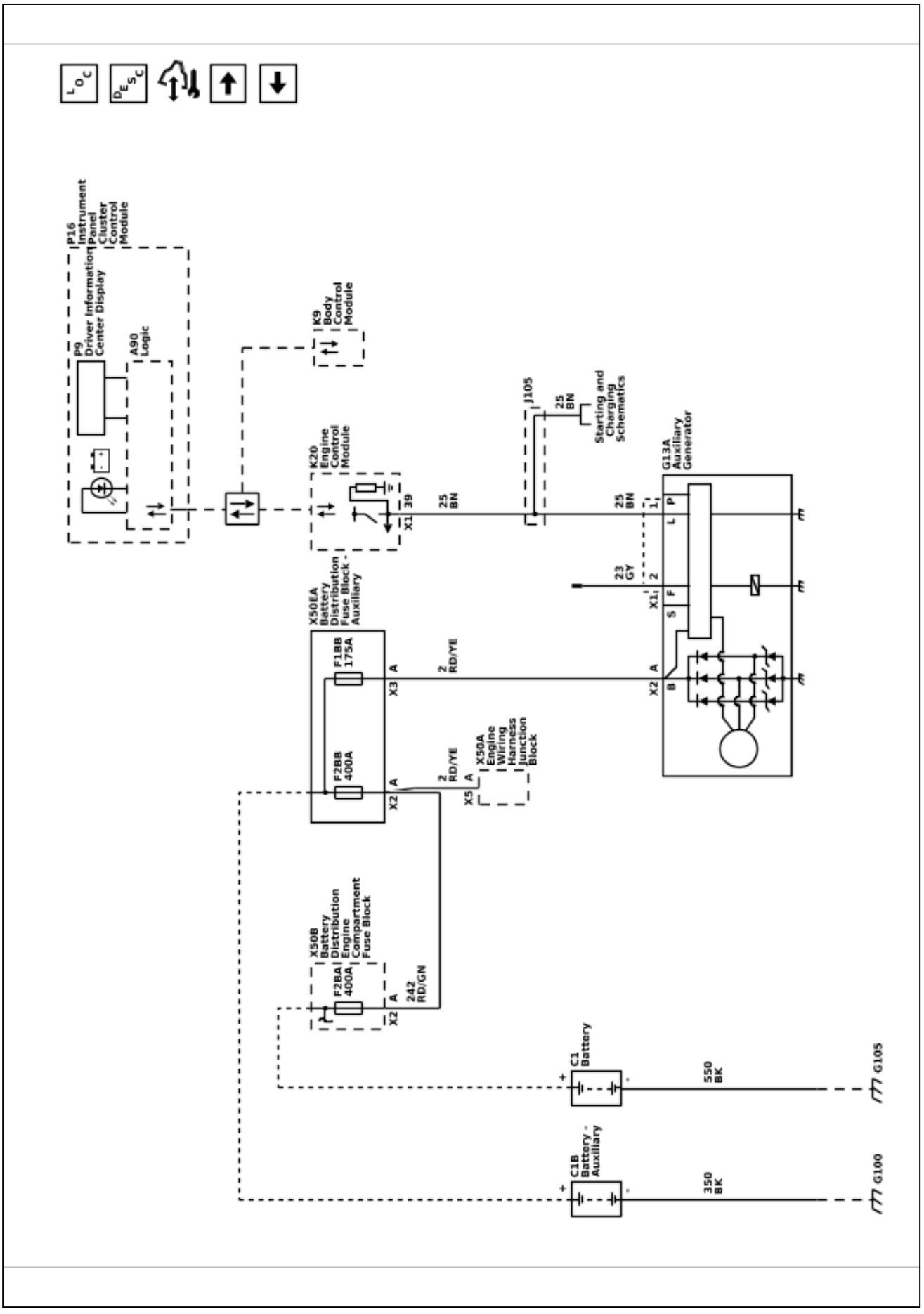


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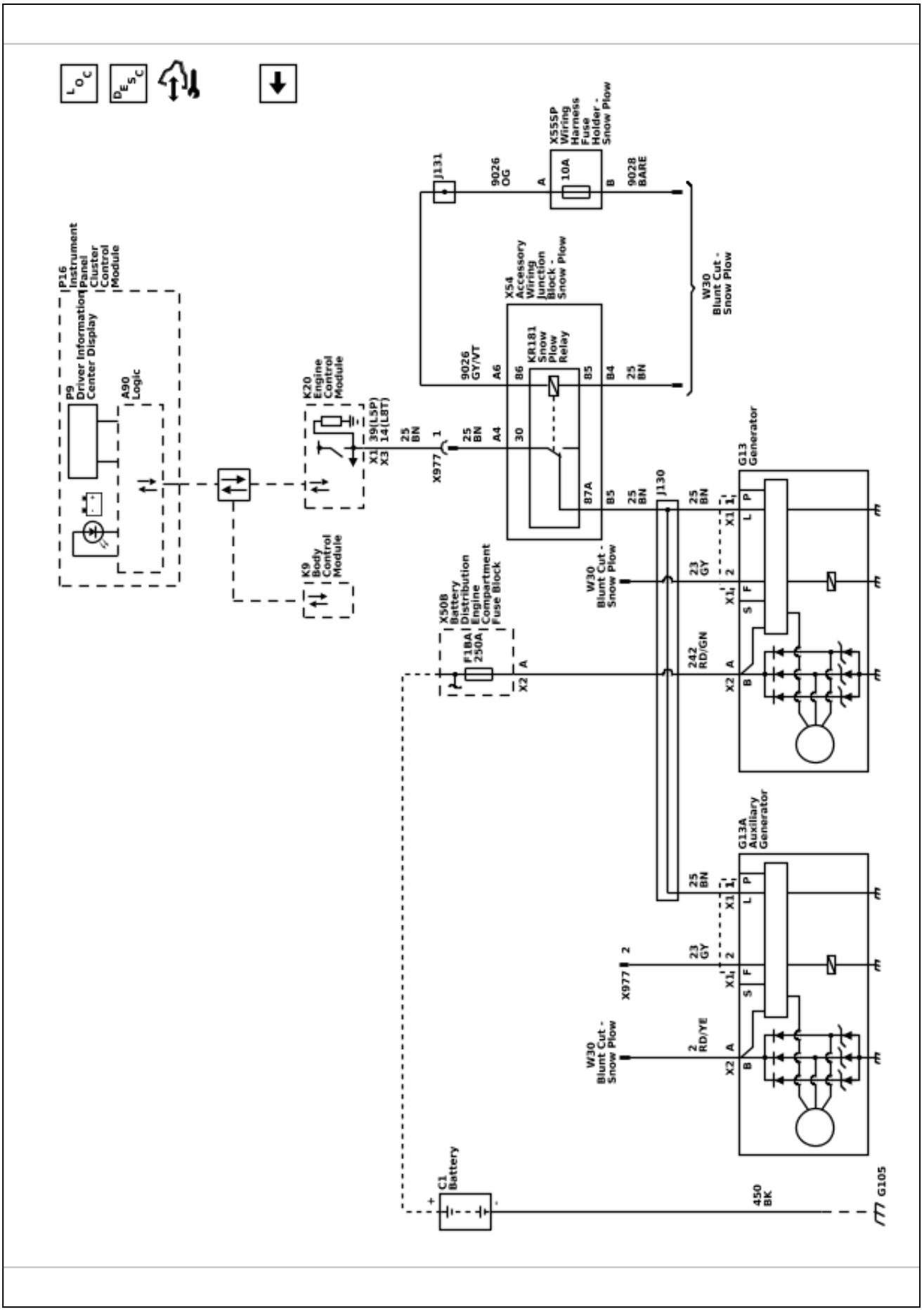
Starting and Charging Schematics (Charging (L5P))



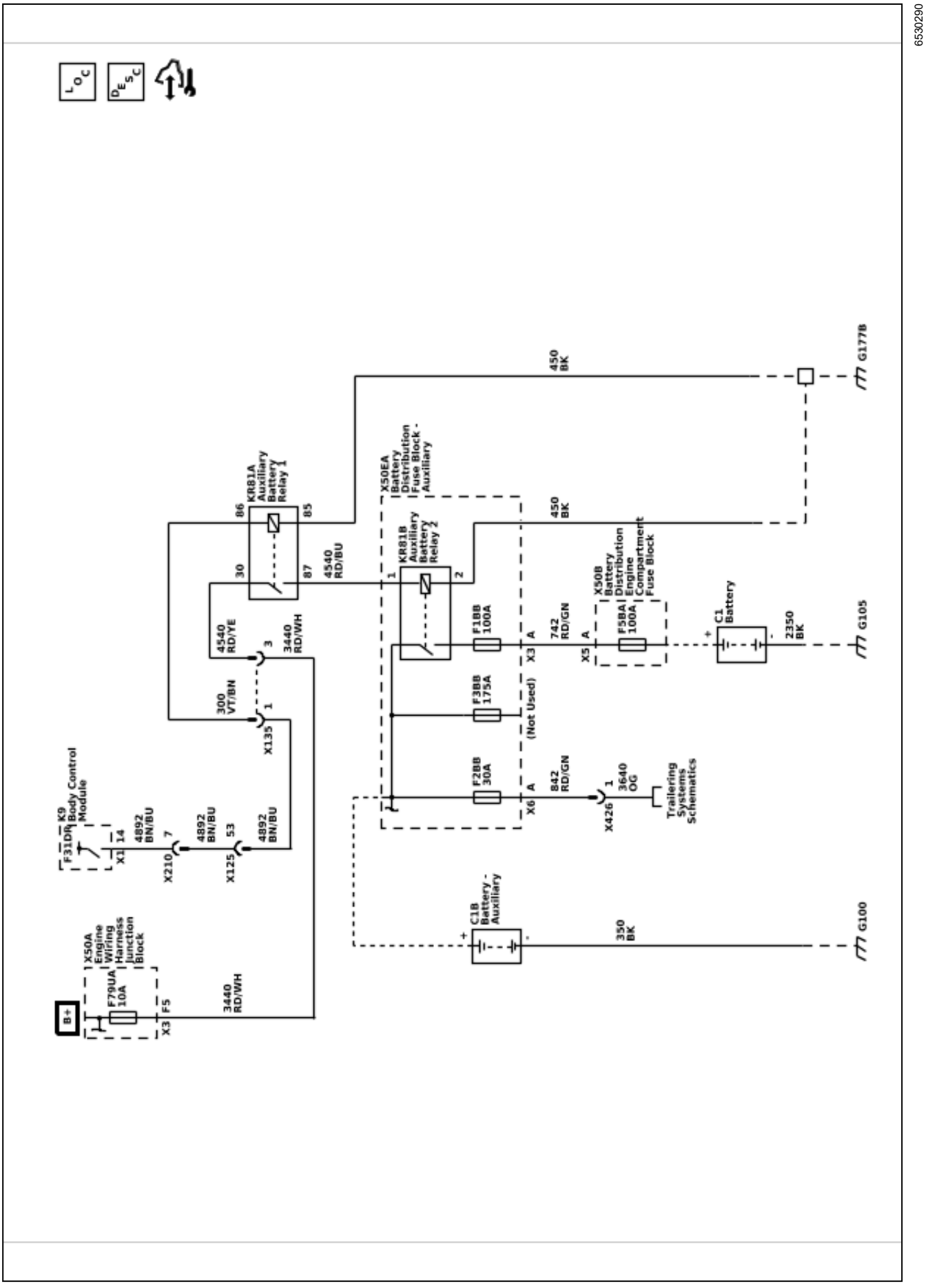
Starting and Charging Schematics (Charging Auxiliary (L5P))



Starting and Charging Schematics (Charging (VYU))



Auxiliary Battery Schematics (Auxiliary Battery Relays (K4Z))



Description and Operation

Battery Description and Operation

Warning: Batteries produce explosive gases, contain corrosive acid, and supply levels of electrical current high enough to cause burns. Therefore, to reduce the risk of personal injury when working near a battery:

- ***Always shield your eyes and avoid leaning over the battery whenever possible.***
- ***Do not expose the battery to open flames or sparks.***
- ***Do not allow the battery electrolyte to contact the eyes or the skin. Flush immediately and thoroughly any contacted areas with water and get medical help.***
- ***Follow each step of the jump starting procedure in order.***
- ***Treat both the booster and the discharged batteries carefully when using the jumper cables.***

Batteries that are no longer wanted must be disposed of by an approved battery recycler and must never be thrown in the trash or sent to a landfill.

Batteries that are not part of the vehicle itself, not the battery under the hood, must only be transported on public streets for business purposes via approved hazardous material transportation procedures.

Battery storage, charging and testing facilities in repair shops must meet various requirements for ventilation, safety equipment, material segregation, etc.

The maintenance free battery is standard. There are no vent plugs in the cover. The battery is completely sealed except for 2 small vent holes in the side. These vent holes allow the small amount of gas that is produced in the battery to escape.

The battery has 3 functions as a major source of energy:

- Engine cranking
- Voltage stabilizer
- Alternate source of energy with generator overload

Battery Low Start Vehicle Message

The body control module (BCM) monitors battery positive voltage to determine battery state of charge. If one or more of the BCM battery positive voltage terminals measure less than approximately 11.6V compared to the BCM ground circuits, this message will display and four chimes may sound. Start the vehicle immediately. If the vehicle is not started and the battery continues to discharge, the climate controls, heated seats, and audio systems will shut off and the vehicle may require a jump start. These systems will function again after the vehicle is started.

Battery Ratings

A battery has 2 ratings:

- Cold cranking amperage
- Amperage hours

When a battery is replaced use a battery with similar ratings. See battery specification label on the original battery.

Amperage Hours

The amperage hour rating tells you how much amperage is available when discharged evenly over a 20 hour period. The amperage hour rating is cumulative, so in order to know how many constant amperage the battery will output for 20 h, you have to divide the amperage hour rating by 20. Example: If a battery has an amperage hour rating of 74, dividing by 20 = 3.75. Such a battery can carry a 3.75 A load for 20 hours before dropping to 10.5 V. (10.5 V is the fully discharged level, at which point the battery needs to be recharged.) A battery with an amperage hour rating of 55 will carry a 2.75 A load for 20 hours before dropping to 10.5 V.

Cold Cranking Amperage

The cold cranking amperage is an indication of the ability of the battery to crank the engine at cold temperatures. The cold cranking amperage rating is the minimum amperage the battery must maintain for 30 seconds at −18°C (0°F) while maintaining at least 7.2 V. See battery label for the cold cranking amperage rating of this battery.

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

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.

Body Control Module (BCM)
The BCM communicates with the Engine Control Module (ECM) 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.

Battery Sensor Module (if applicable)
The BCM monitors the Battery Sensor Module for battery state of current, state of health, and battery charge via serial data. If the battery is determined to be in poor state of health or having a low state of charge, the BCM will not allow the ECM to perform an auto-stop.

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.

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 though 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
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 thorough 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.

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 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.

Auxiliary Electric Heater

Vehicles equipped with a diesel engine come with an auxiliary electric heater. This 12V electrically powered heating element is positioned directly behind the regular coolant flow based heater core in the HVAC case. All airflow goes through the regular heater core first, and then through the auxiliary electric heater. The auxiliary electric heater is active when the outside ambient temperature is below **8°C (46°F)** , the coolant temperature is below **75°C (167°F)** , and the temperature air mix door is near the full hot position.

A/C Cycle

Refrigerant is the key element in an air conditioning system. R-134a is a very low temperature gases that can transfer the undesirable heat from the passenger compartment to the outside air.

The A/C compressor is belt driven and operates when the magnetic clutch is engaged. The compressor builds pressure in the A/C 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 A/C system. The A/C system is mechanically protected with the use of a high pressure relief valve. If the high pressure A/C 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 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 A/C 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.

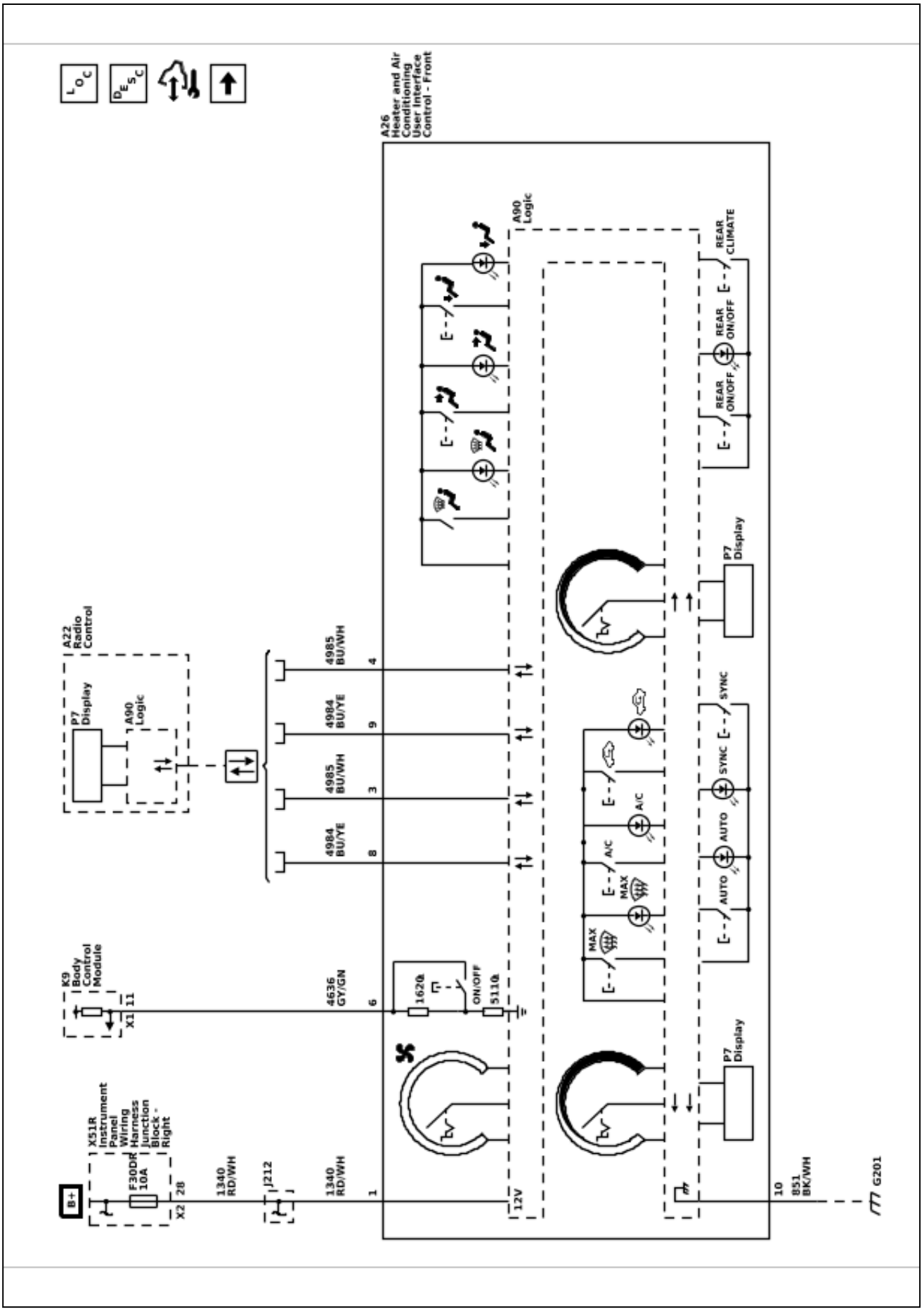
The boiling refrigerant absorbs heat from the ambient air and draws moisture onto the evaporator. The refrigerant exits the evaporator through the suction line and back to the compressor, in a vapor state. This completes the A/C cycle of heat removal. At the compressor, the refrigerant is compressed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

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.

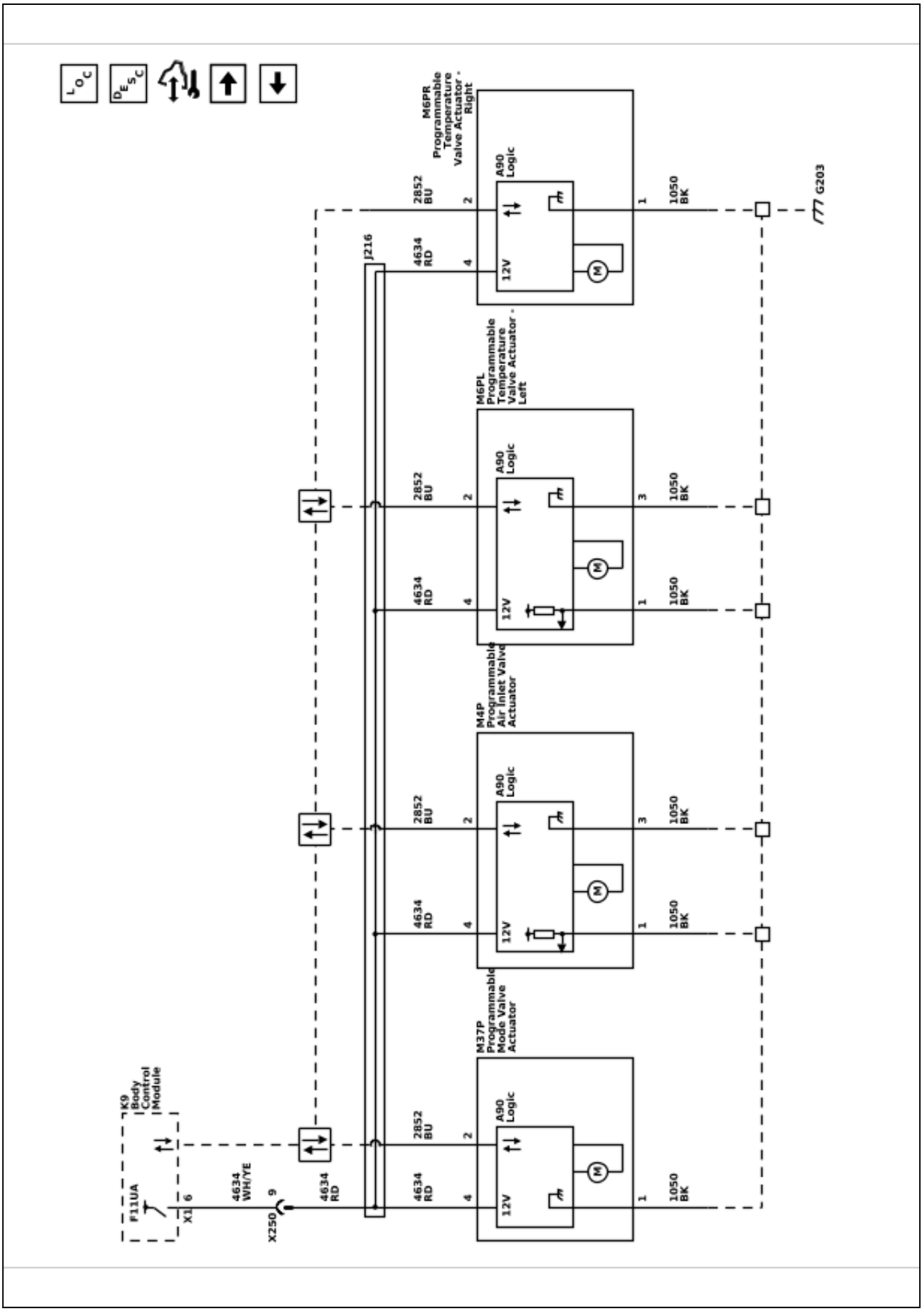
HVAC - Automatic

Schematic and Routing Diagrams

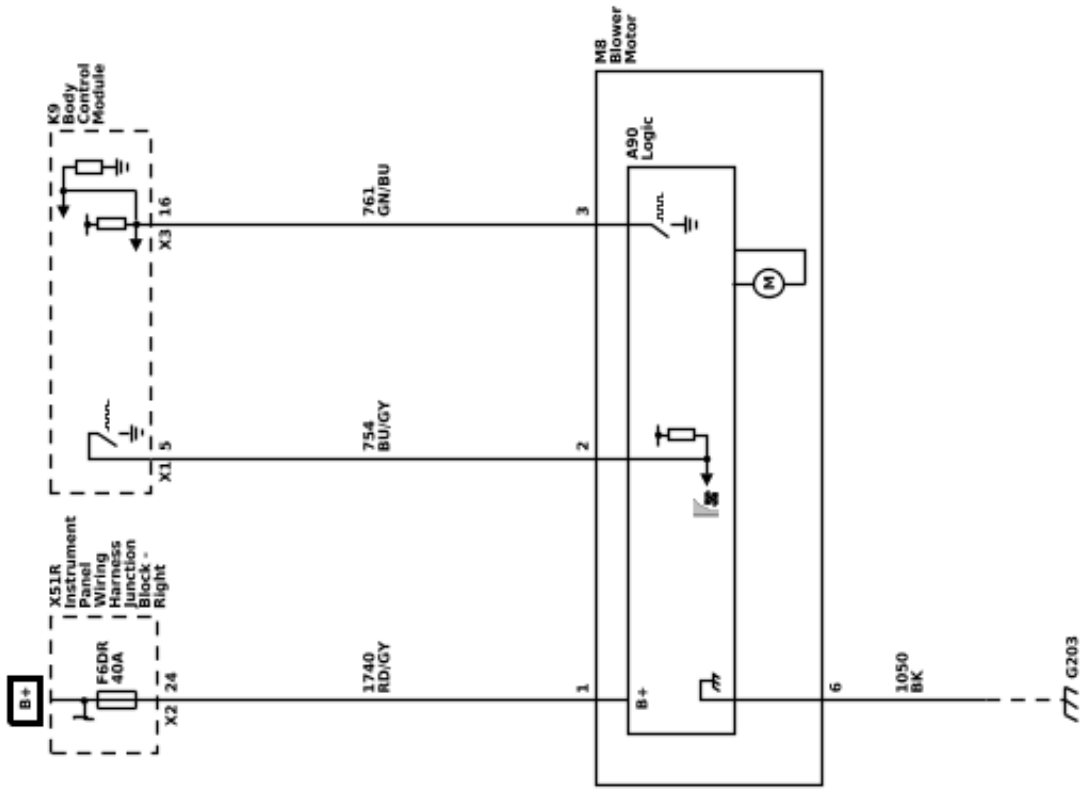
HVAC Schematics (HVAC Controls)



HVAC Schematics (Actuators)

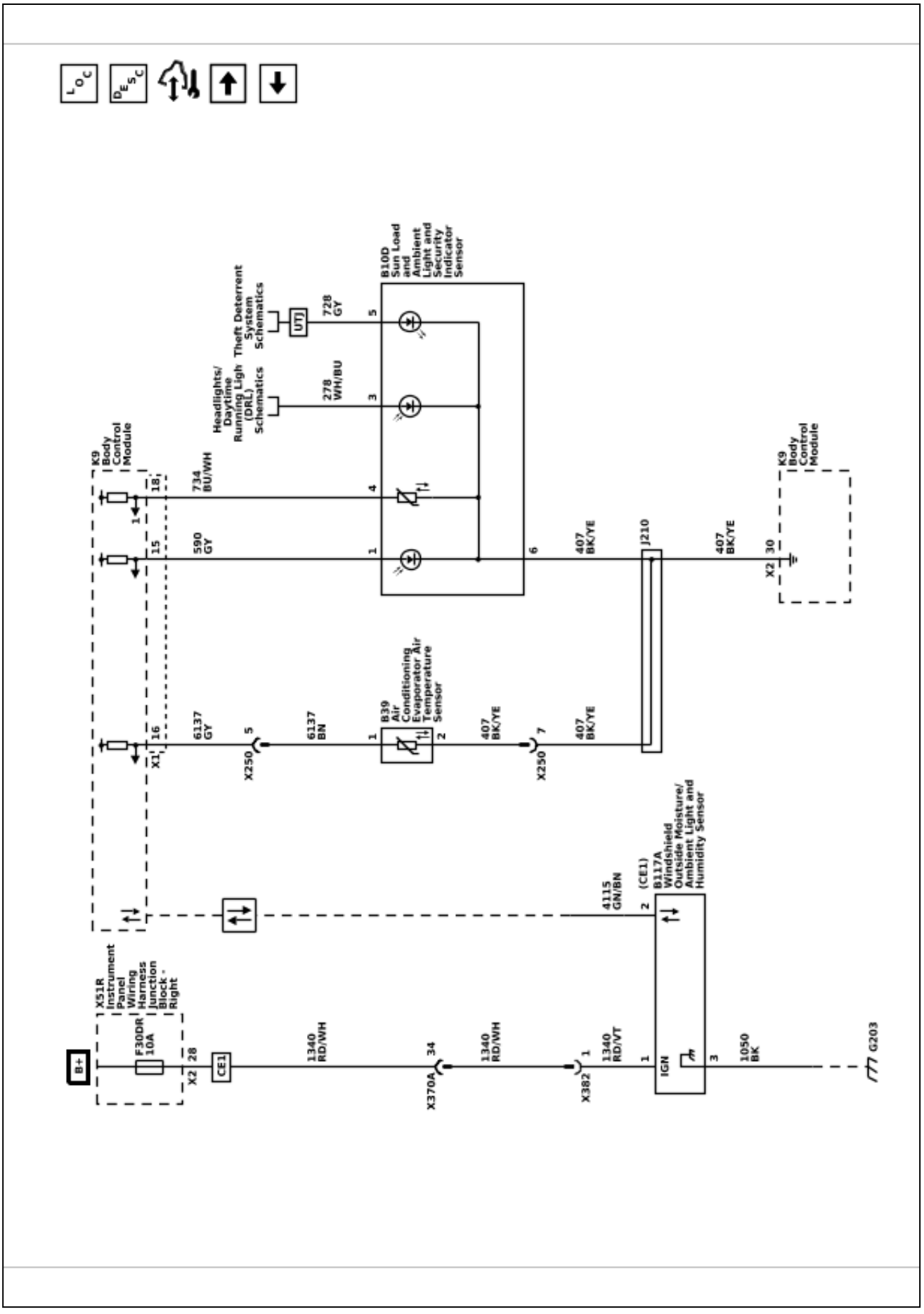


HVAC Schematics (Blower Motor)

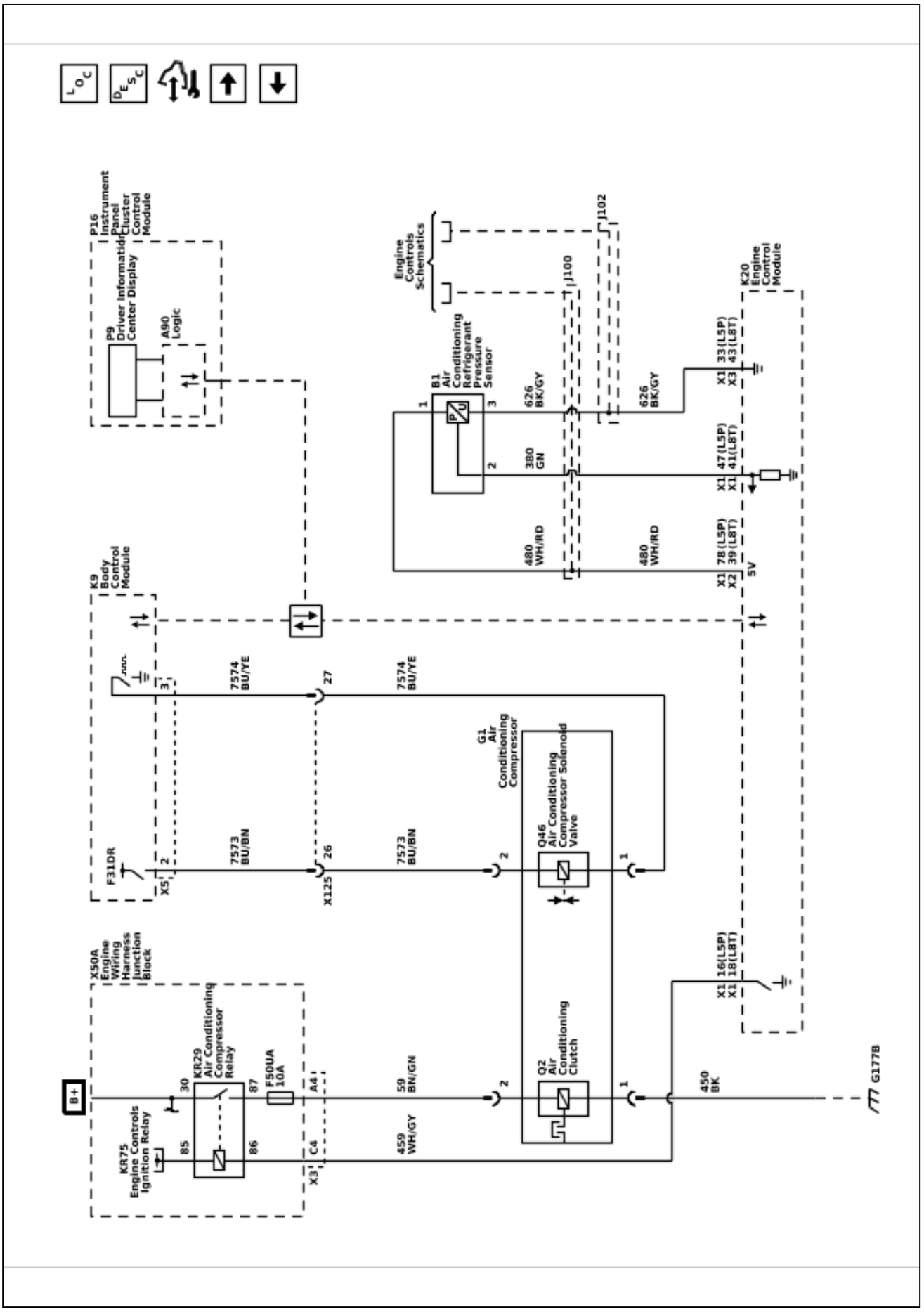


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HVAC Schematics (Windshield Sensors and A/C Evaporator Temperature Sensor)

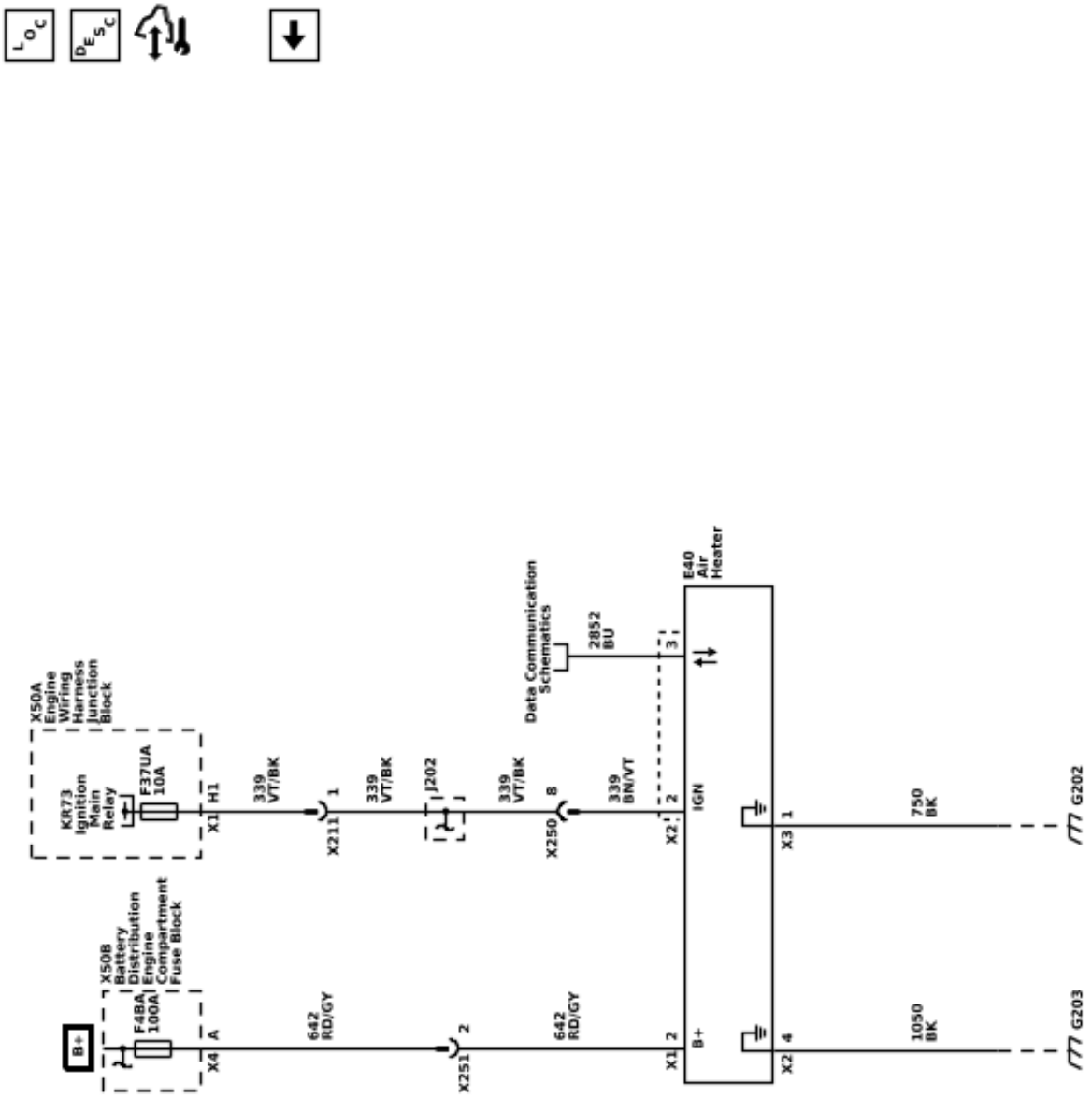


HVAC Schematics (A/C Compressor Controls)



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HVAC Schematics (Air Heater)



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
- Recirculation Operation
- Heating and A/C 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.

Duct Air Temperature

Physical duct air temperature sensors are not used with the 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°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.

B117A Windshield Outside Moisture/Ambient Light and Humidity Sensor (CE1)

The windshield outside moisture, ambient light, and humidity sensor is used by the wiper system to determine exterior moisture, and by the HVAC system for inside windshield temperature and humidity.

The sensors are part of a LIN windshield sensor array, and the sensor values are transmitted to the BCM via serial data.

When equipped, this sensor assembly provides information to the HVAC system 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.

B10D Sun Load 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 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**.

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.

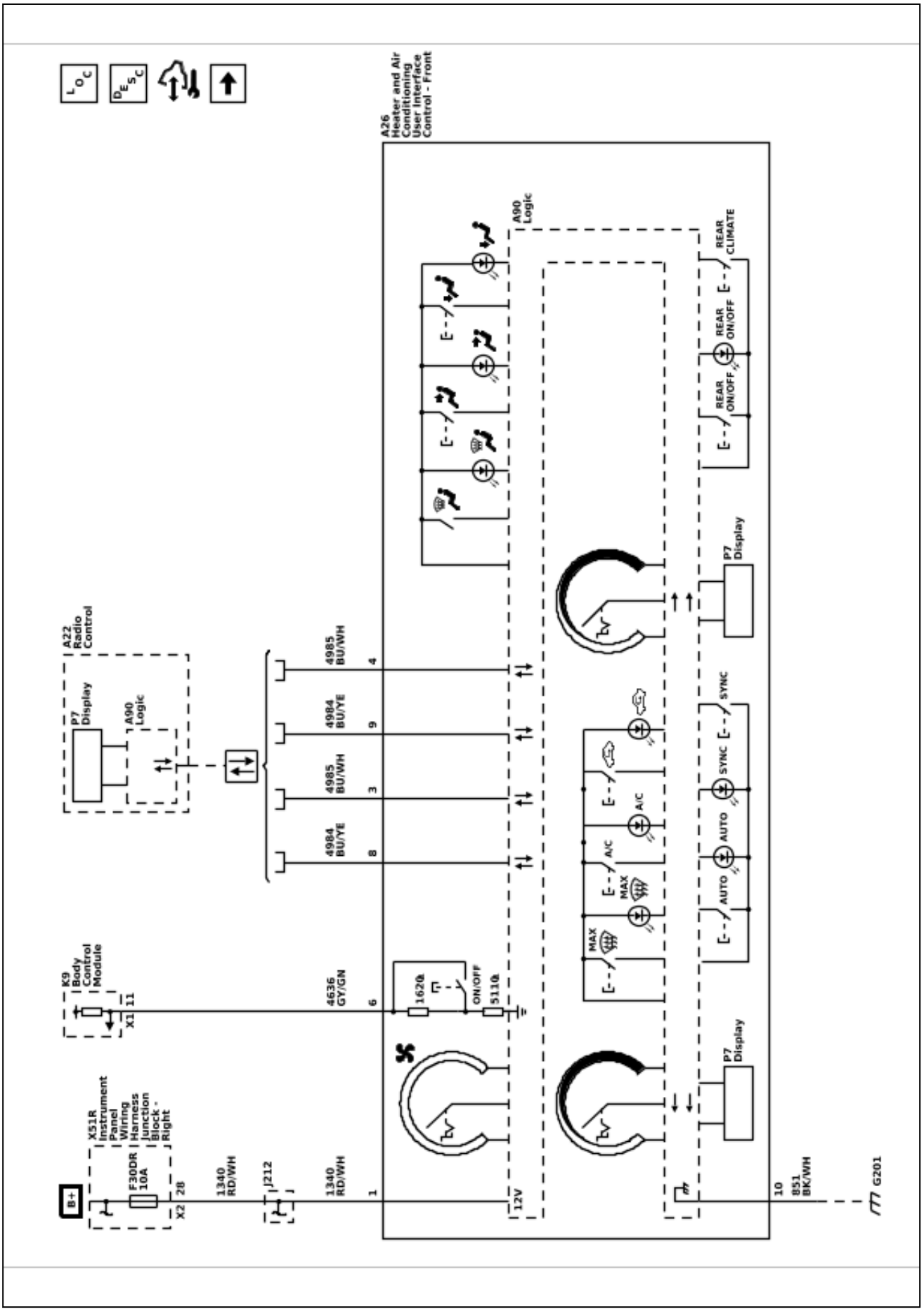
Engine Coolant and A/C System Refrigerant

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*.

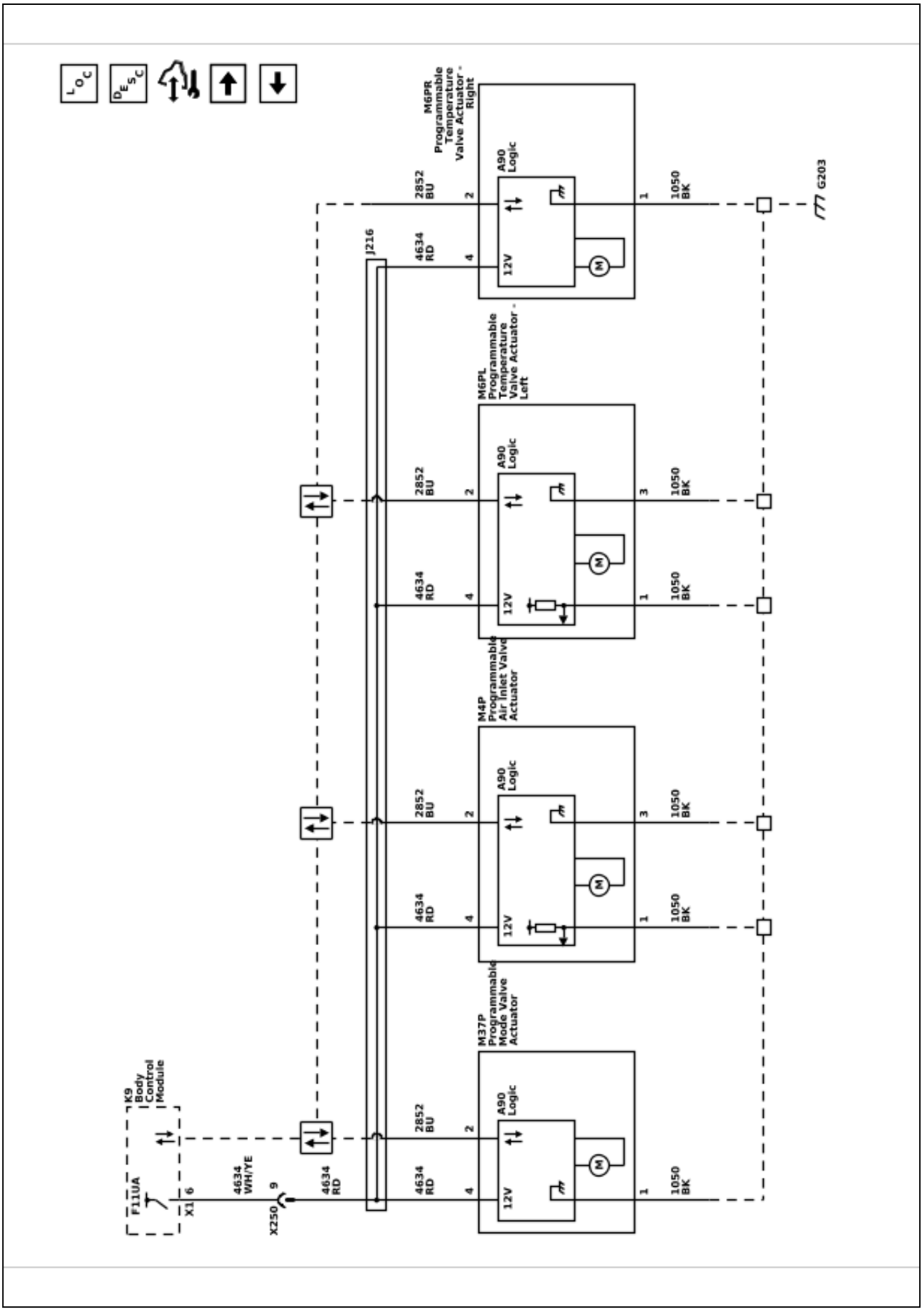
HVAC - Manual

Schematic and Routing Diagrams

HVAC Schematics (HVAC Controls)



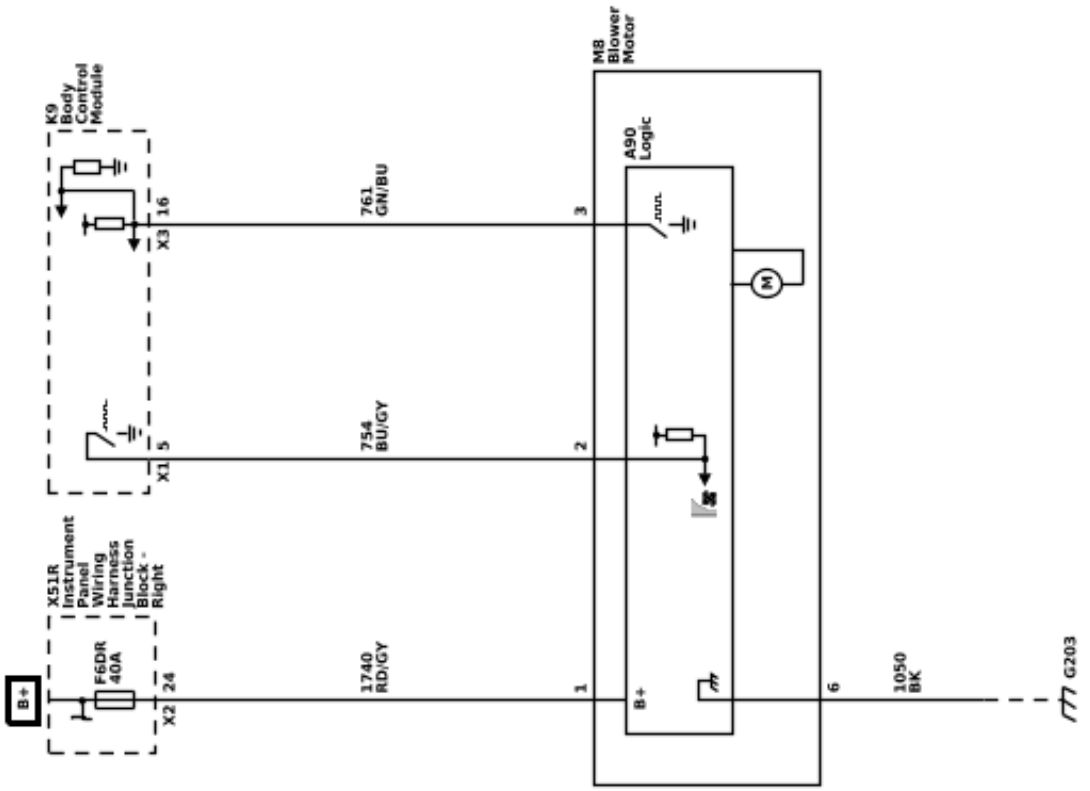
HVAC Schematics (Actuators)



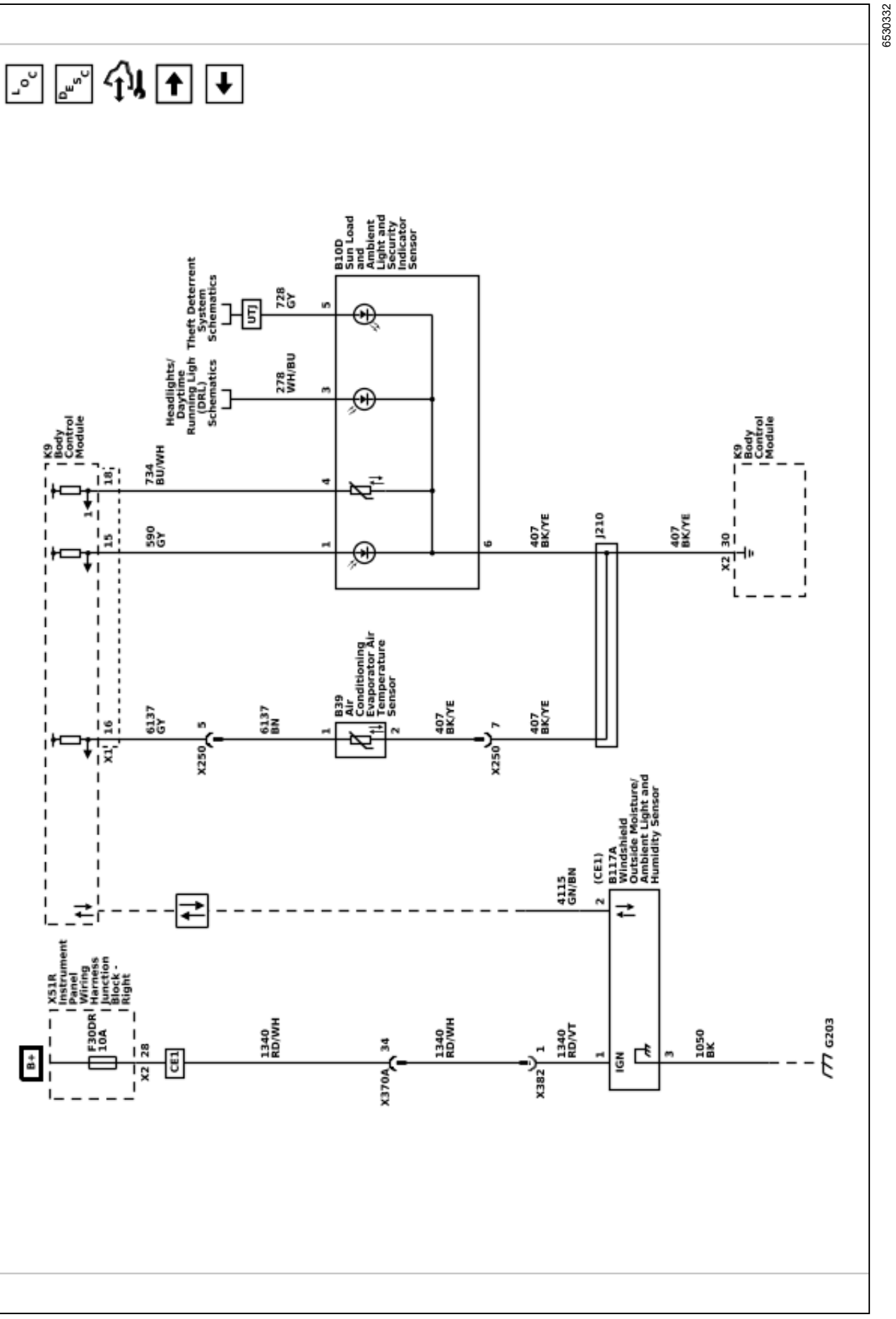
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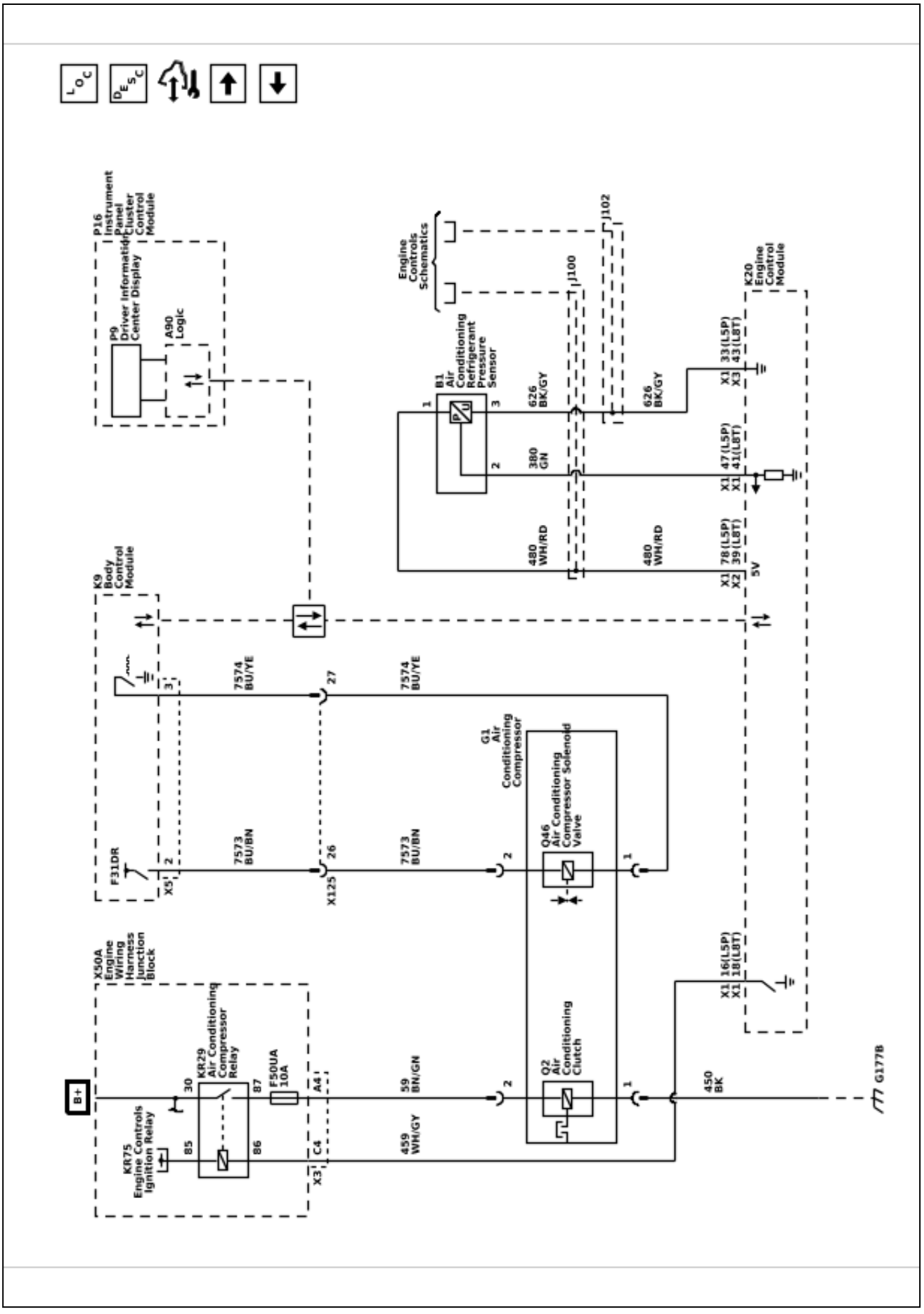
HVAC Schematics (Blower Motor)



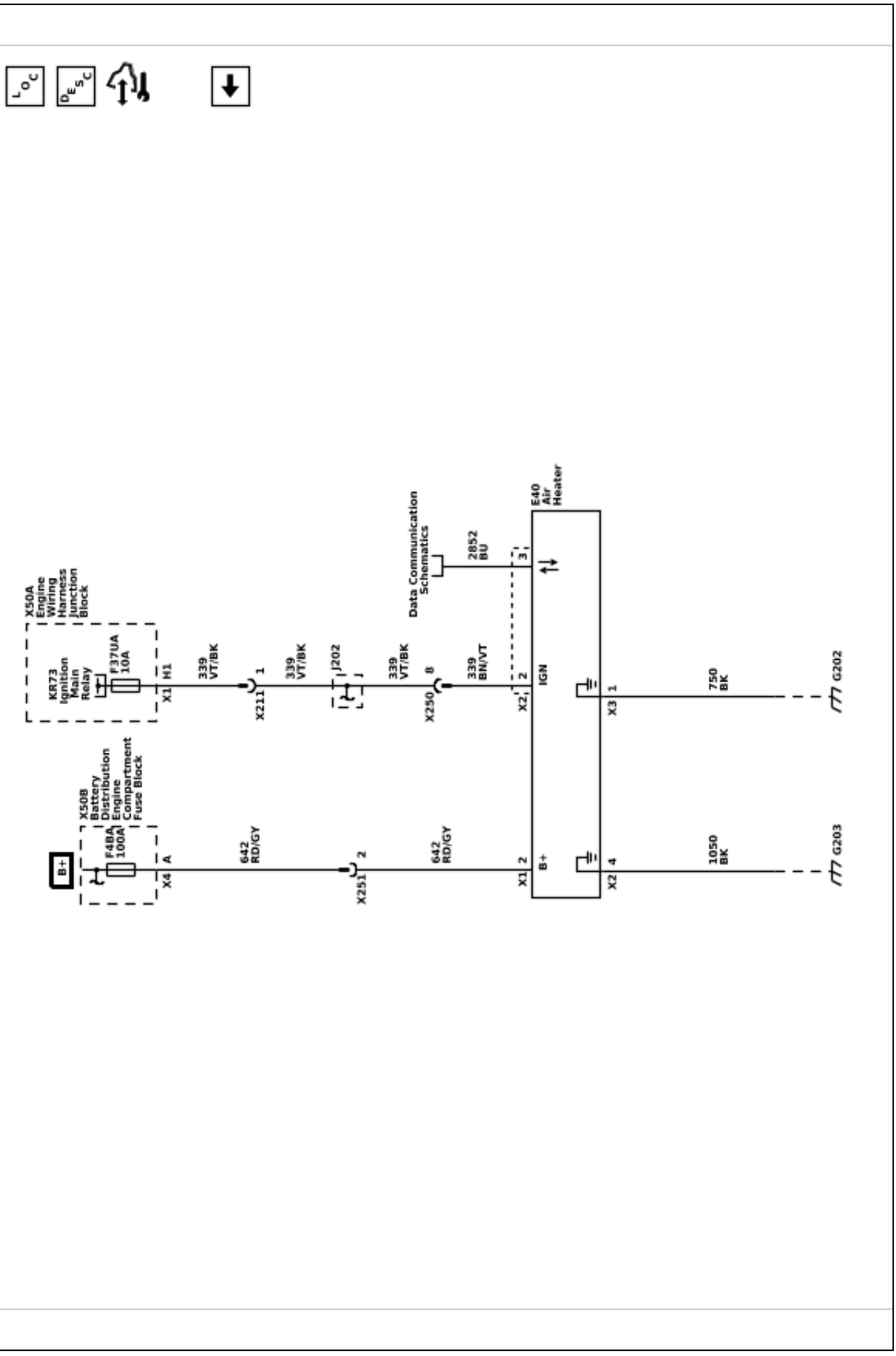
HVAC Schematics (Windshield Sensors and A/C Evaporator Temperature Sensor)



HVAC Schematics (A/C Compressor Controls)



HVAC Schematics (Air Heater)



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

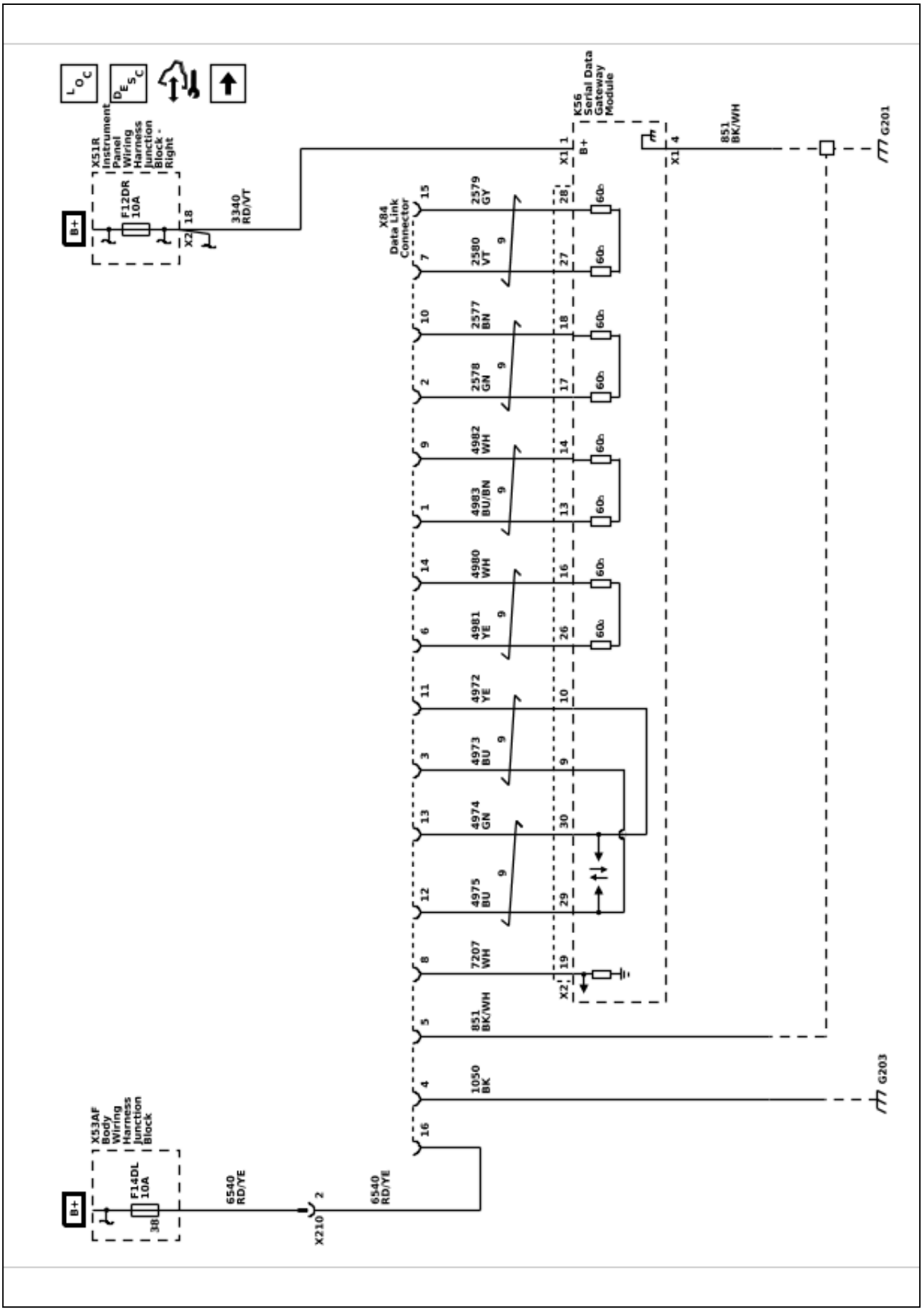
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Upfitter Provision Schematics 6-771
Description and Operation **6-774**
Power Mode Description and Operation ... 6-774
Retained Accessory Power Description and Operation 6-777
Special Purpose Vehicle Module Description and Operation 6-778

Power and Signal Distribution

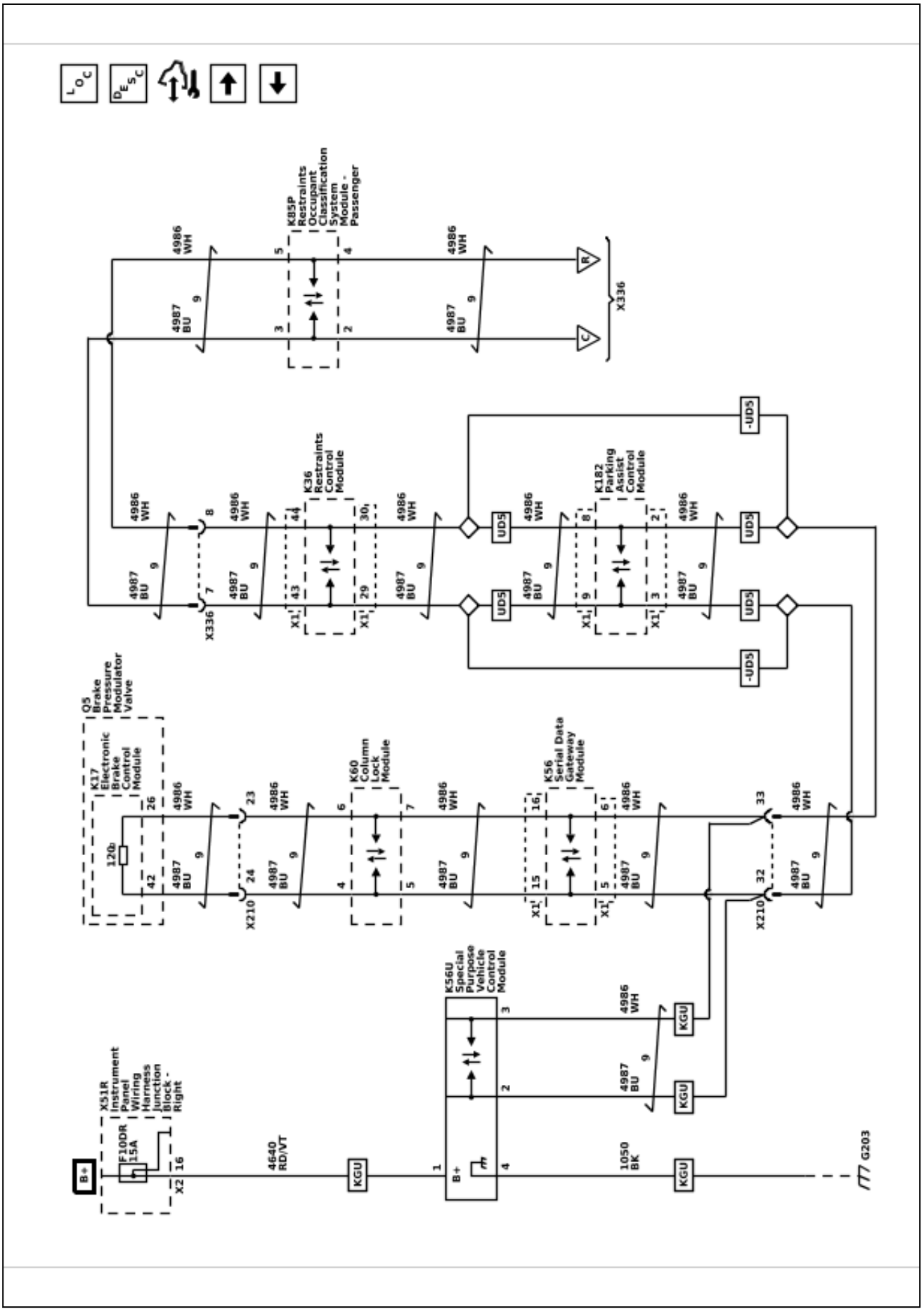
Data Communications

Schematic and Routing Diagrams

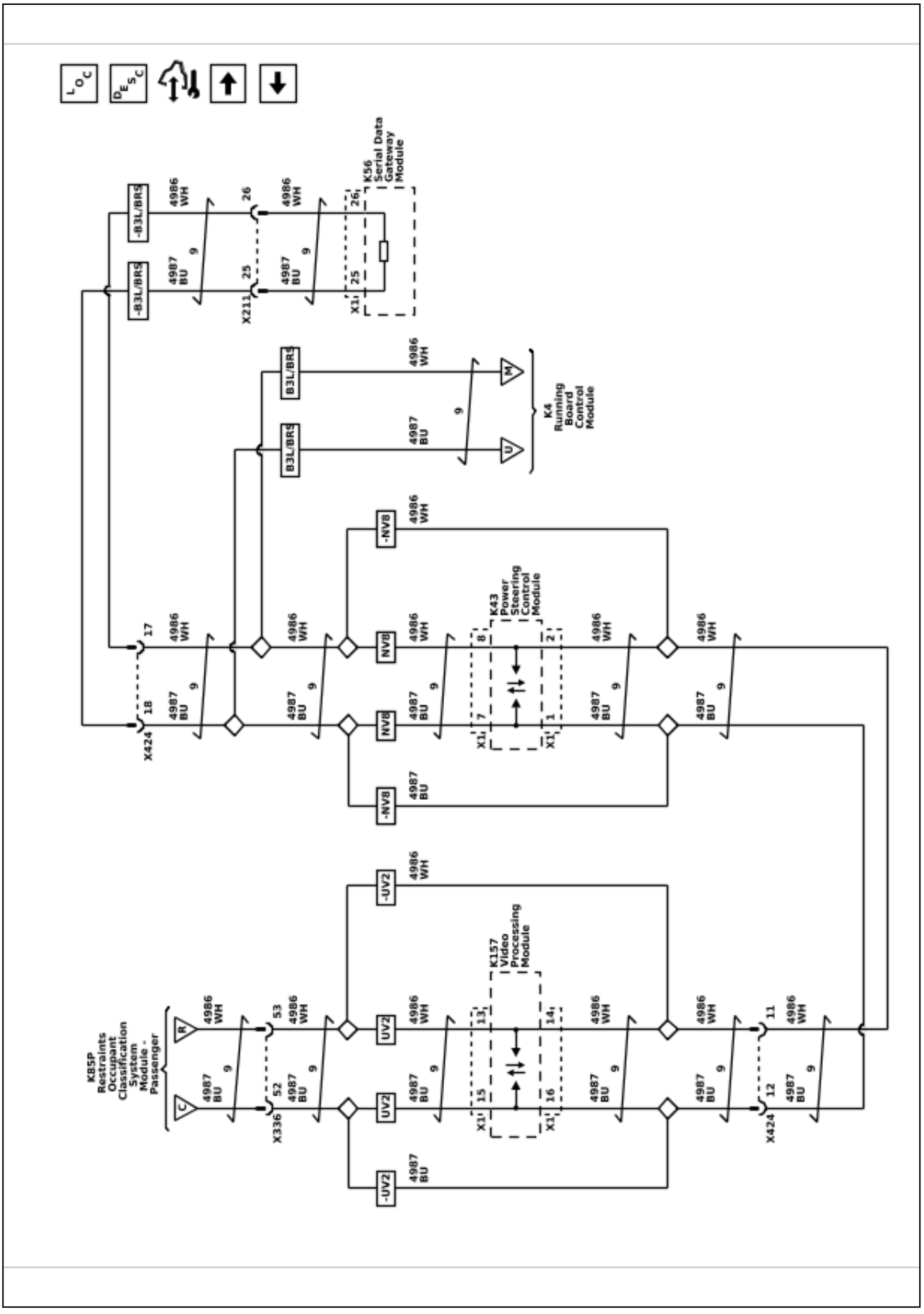
Data Communication Schematics (Data Link Connector and Serial Data Gateway Module Power and Ground)



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

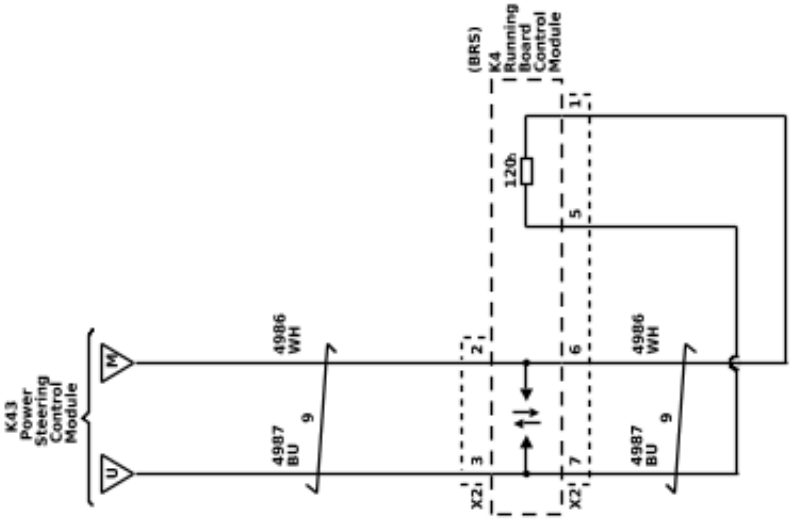


Data Communication Schematics (CAN 1 - 2 of 3)

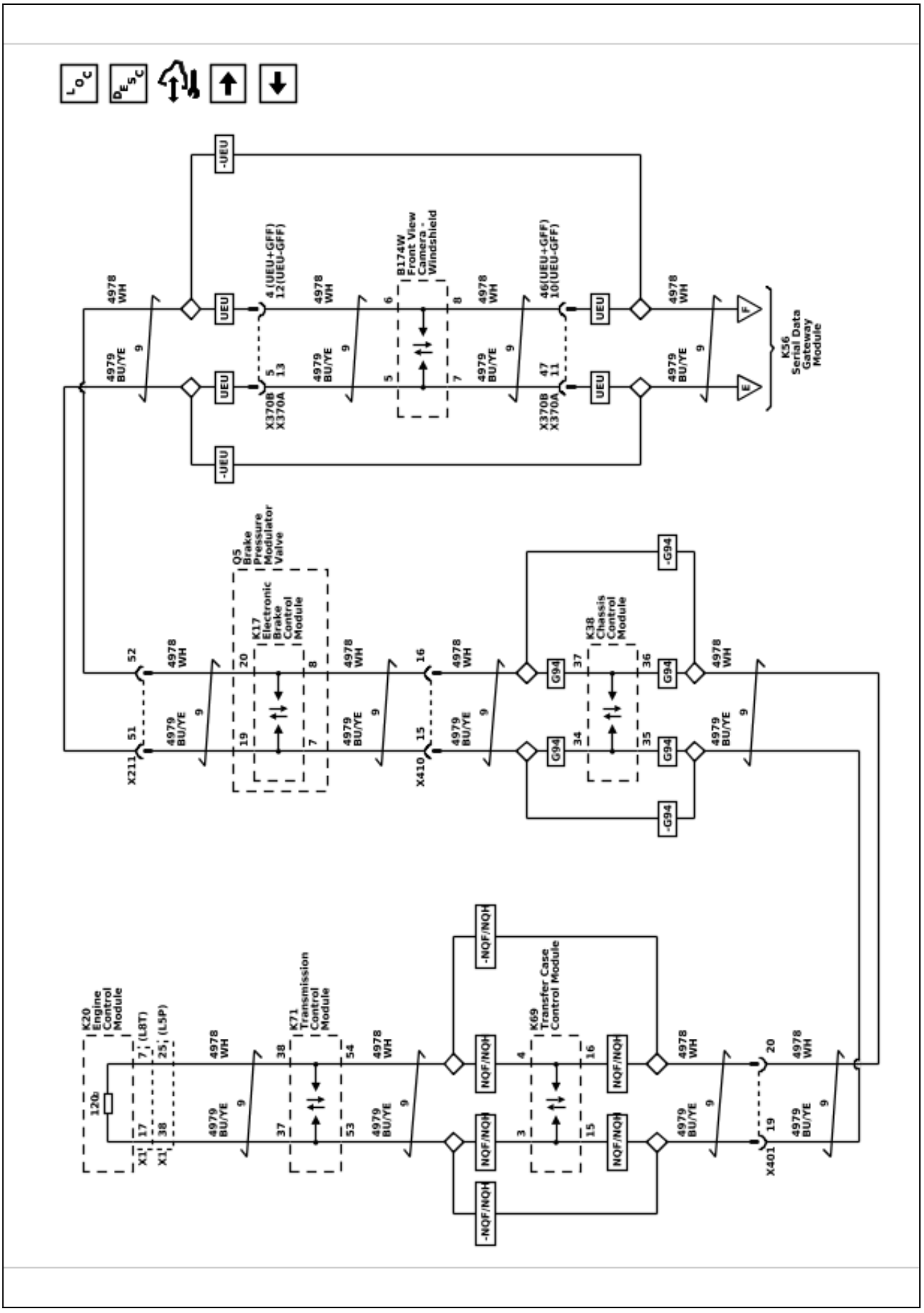


6530344

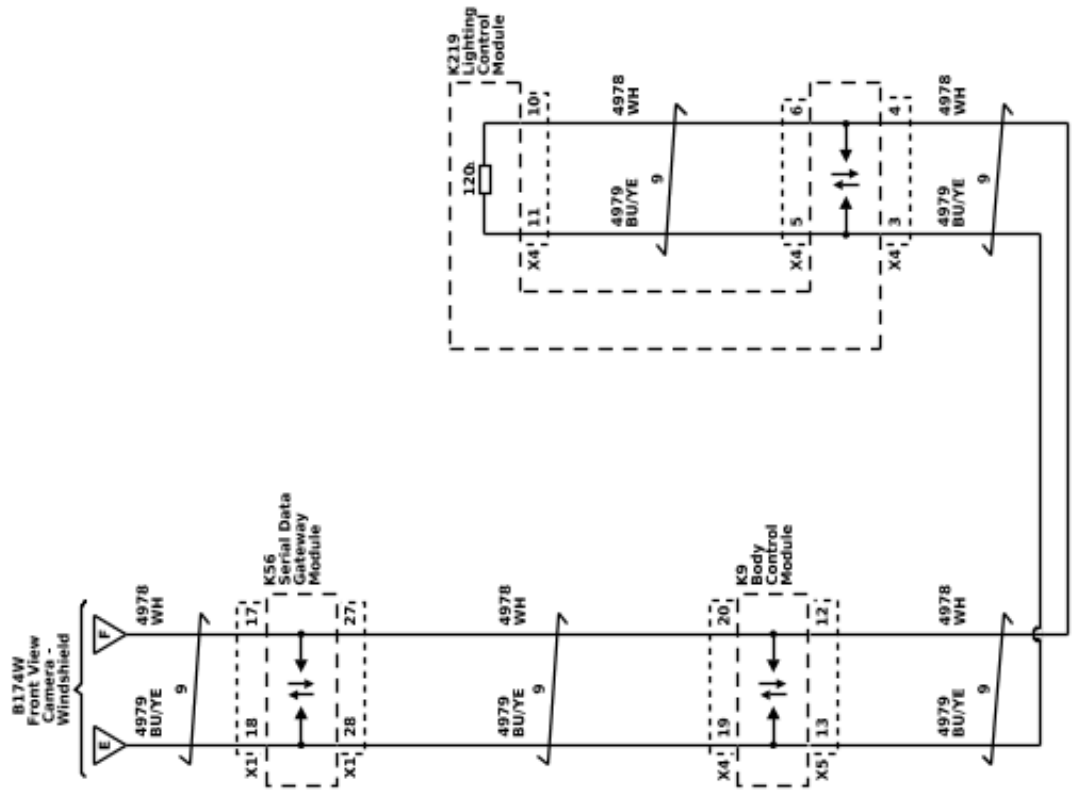
Data Communication Schematics (CAN 1 - 3 of 3)



Data Communication Schematics (CAN 2 - 1 of 2)



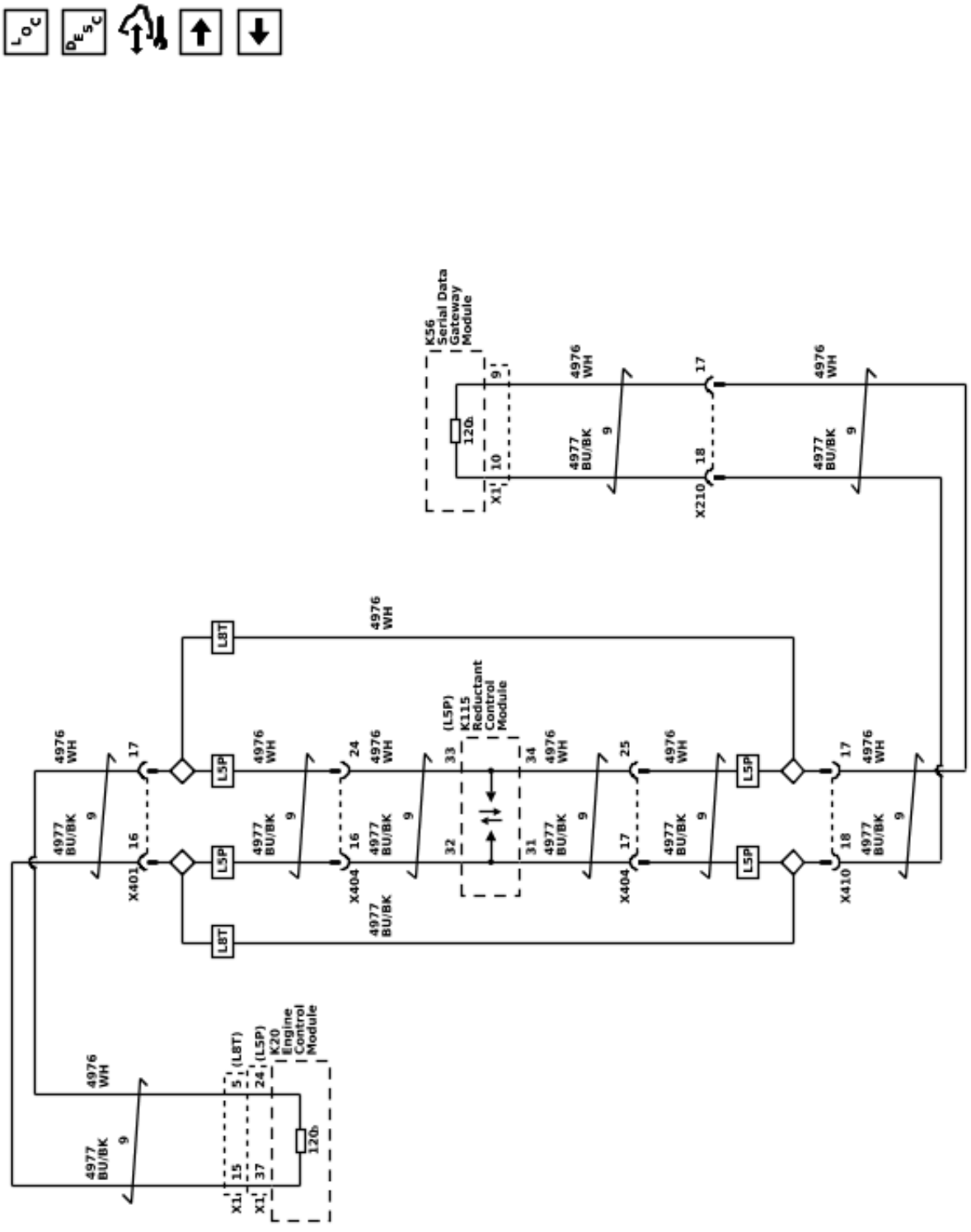
Data Communication Schematics (CAN 2 - 2 of 2)



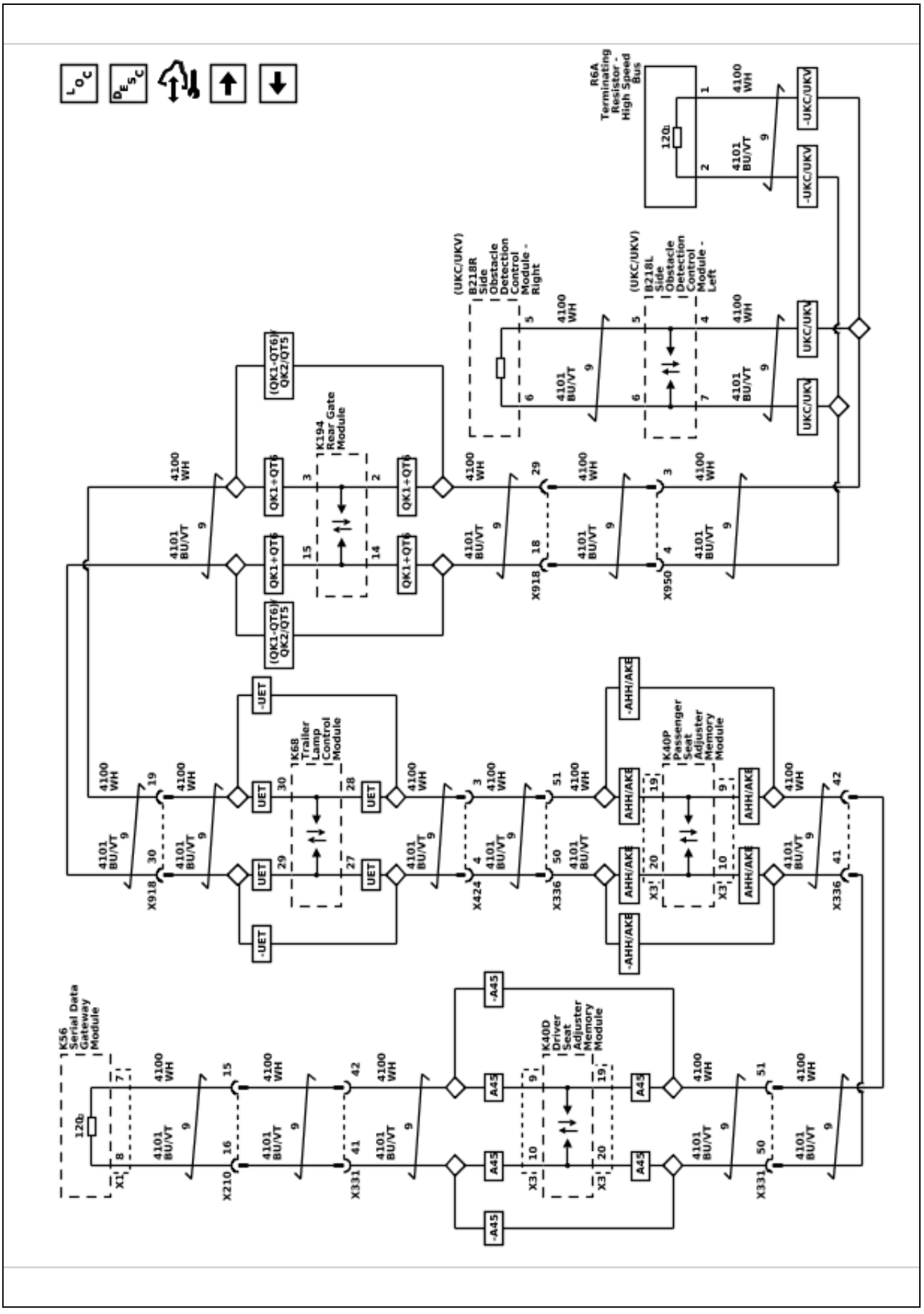
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6530347

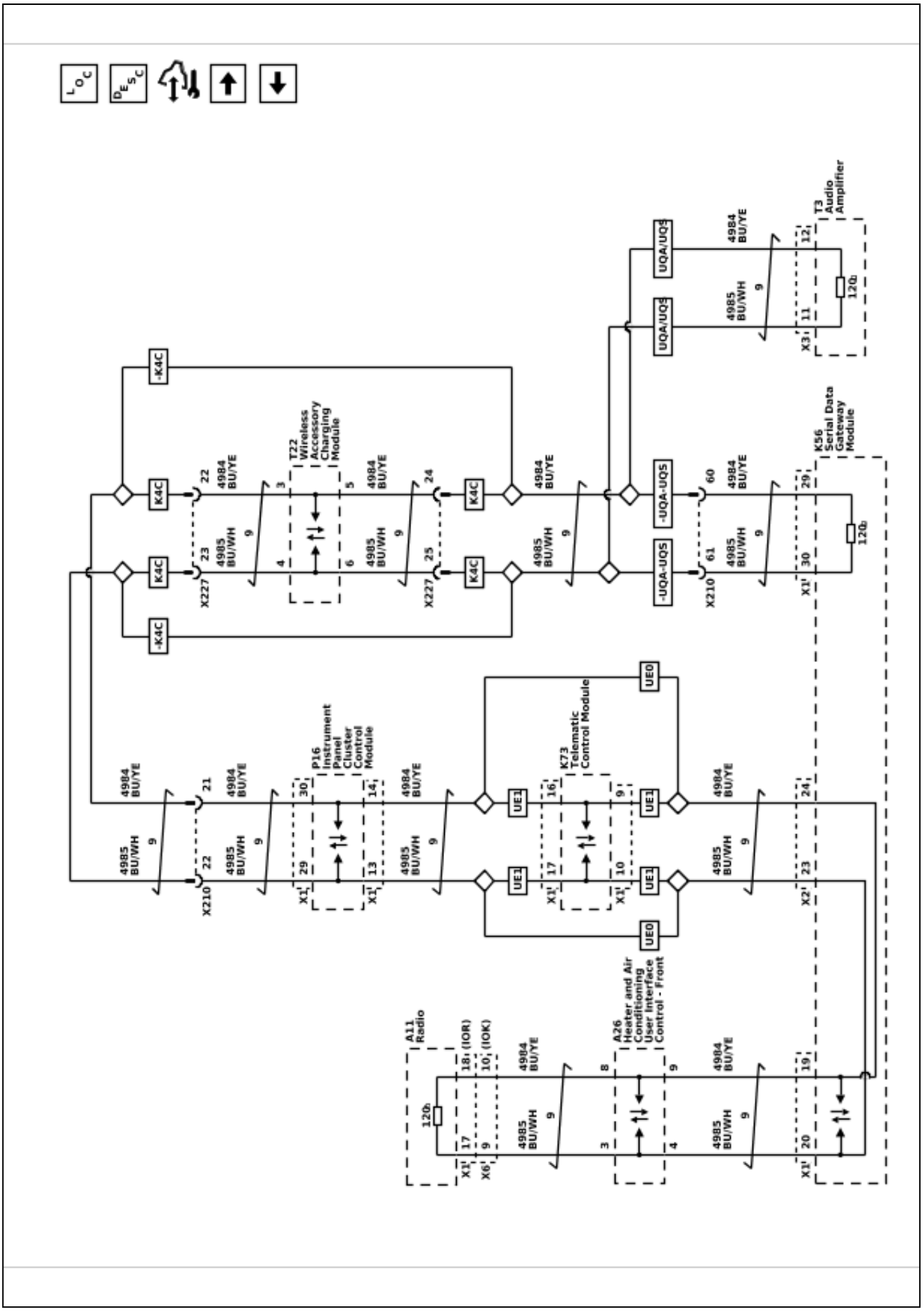
Data Communication Schematics (CAN 3)



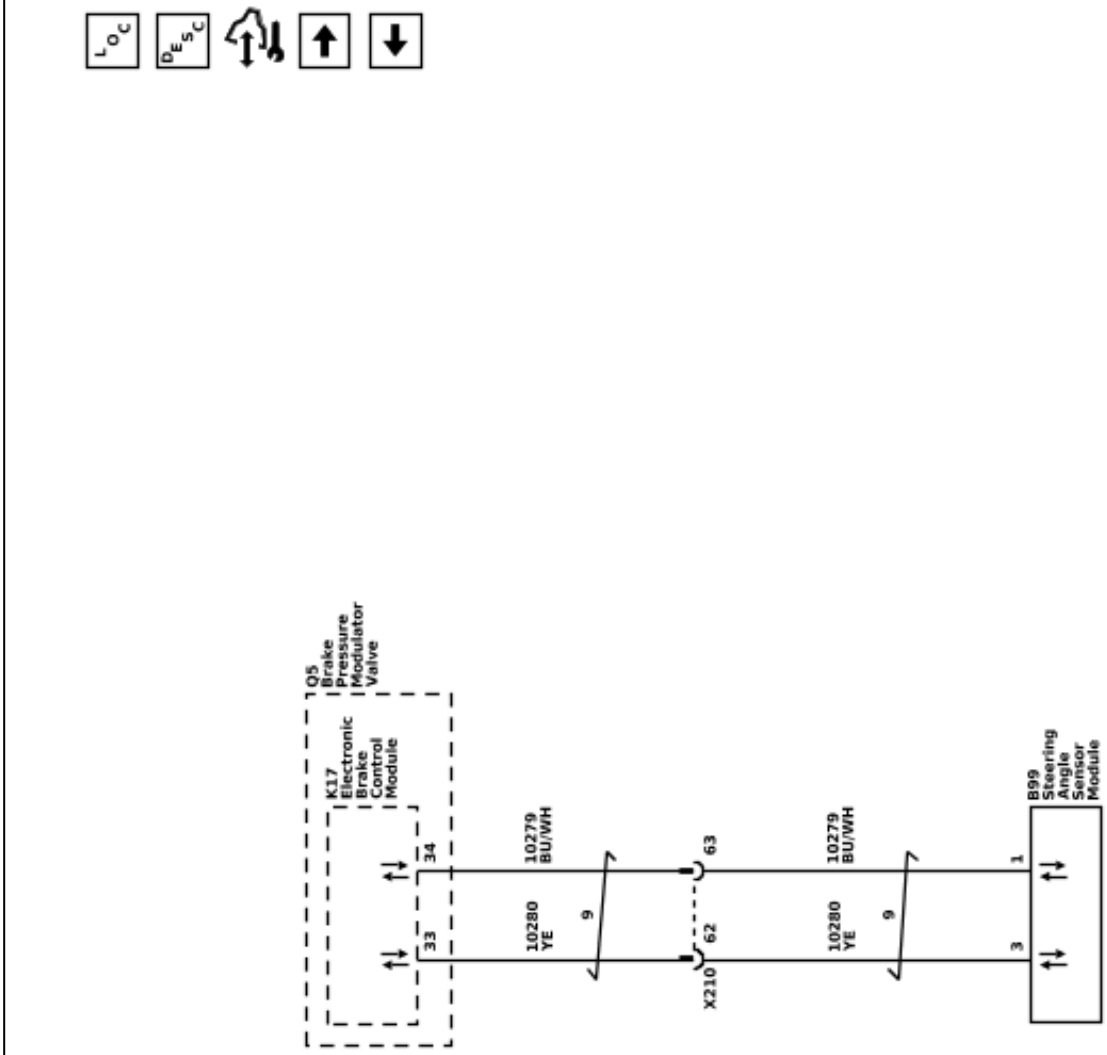
Data Communication Schematics (CAN 4)



Data Communication Schematics (CAN 5)



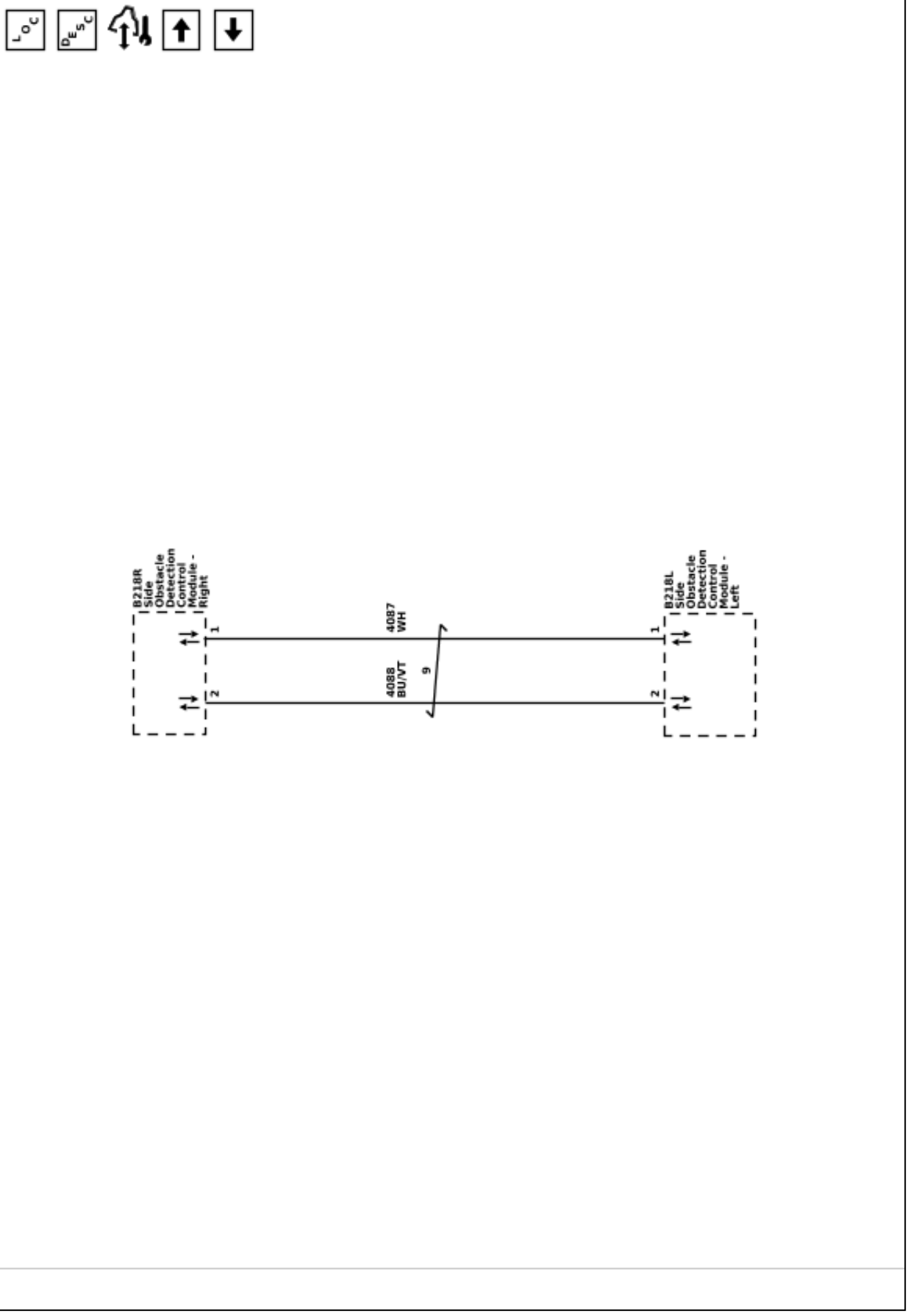
Data Communication Schematics (Private Steering Angle CAN)



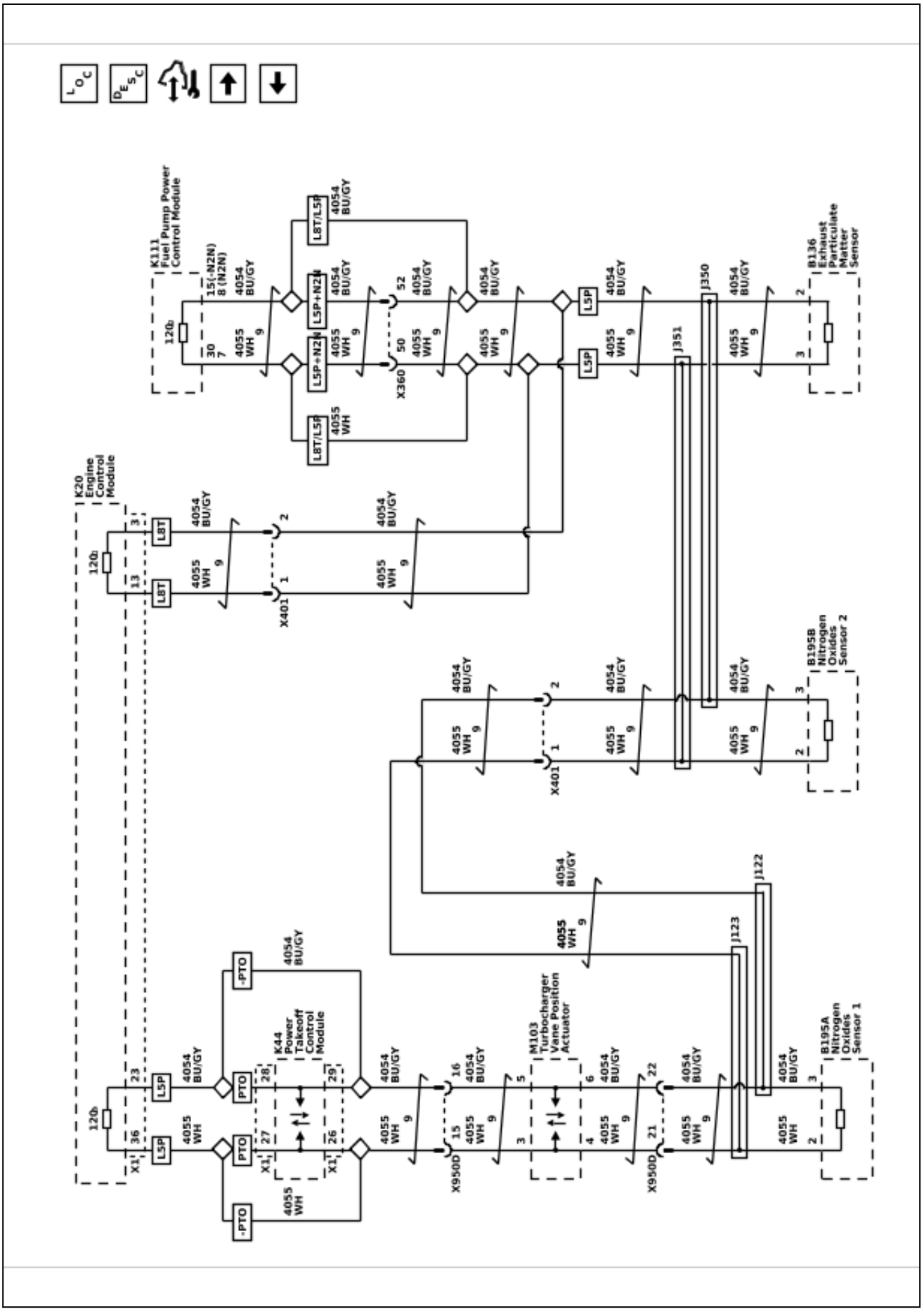
6530350

Data Communication Schematics (Private Serial Data Side Obstacle Detection Can)

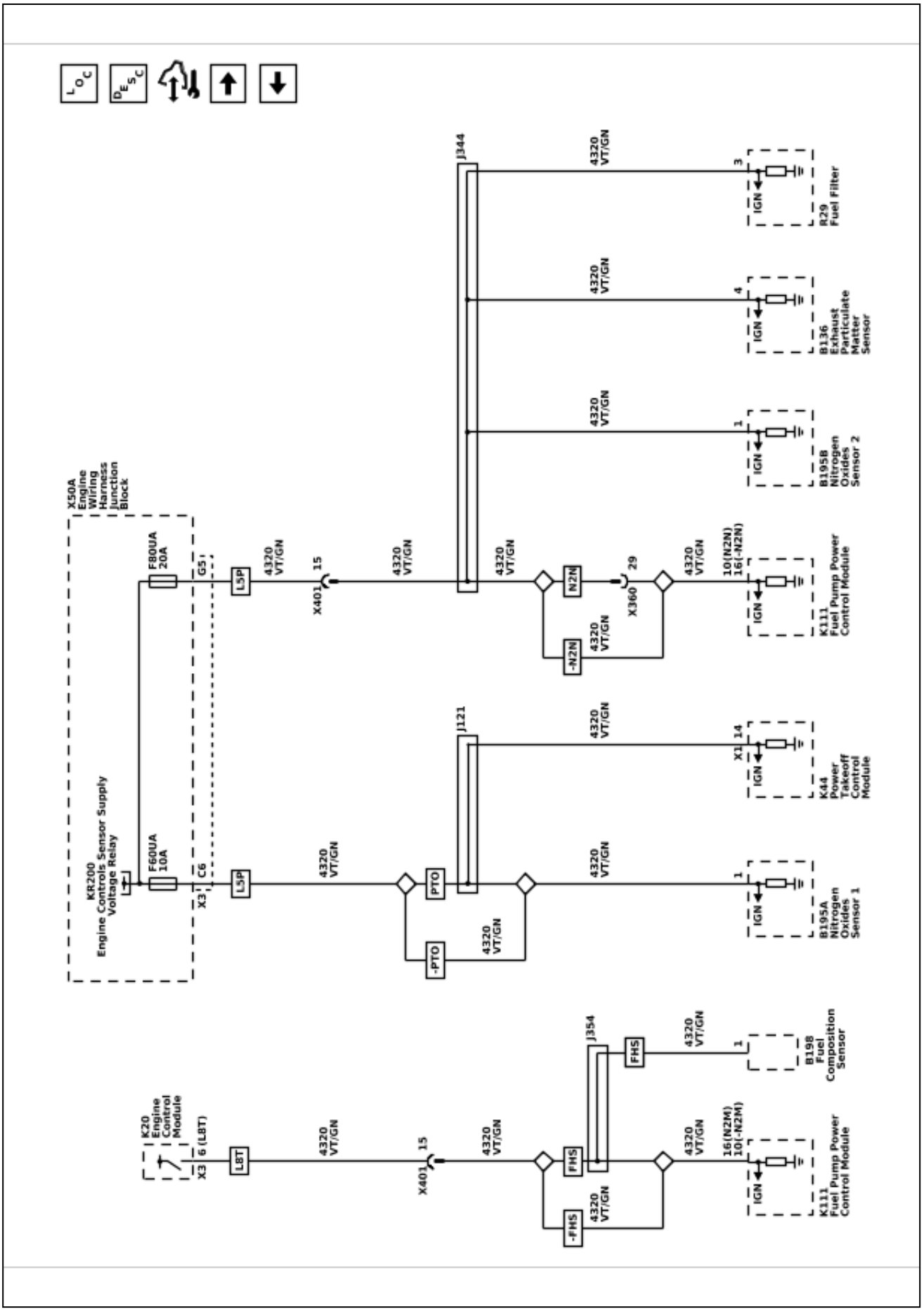
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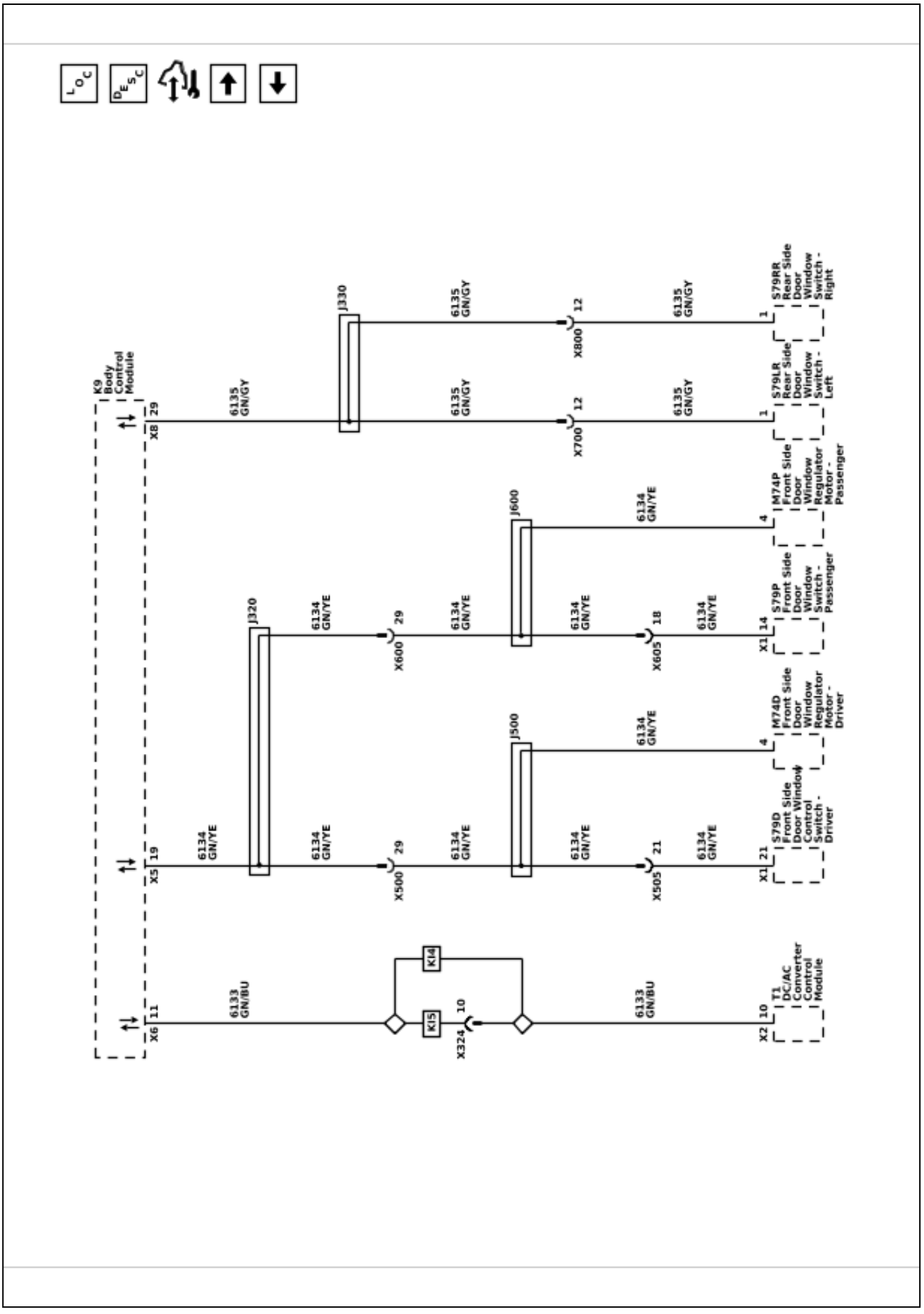
Data Communication Schematics (Powertrain CAN)



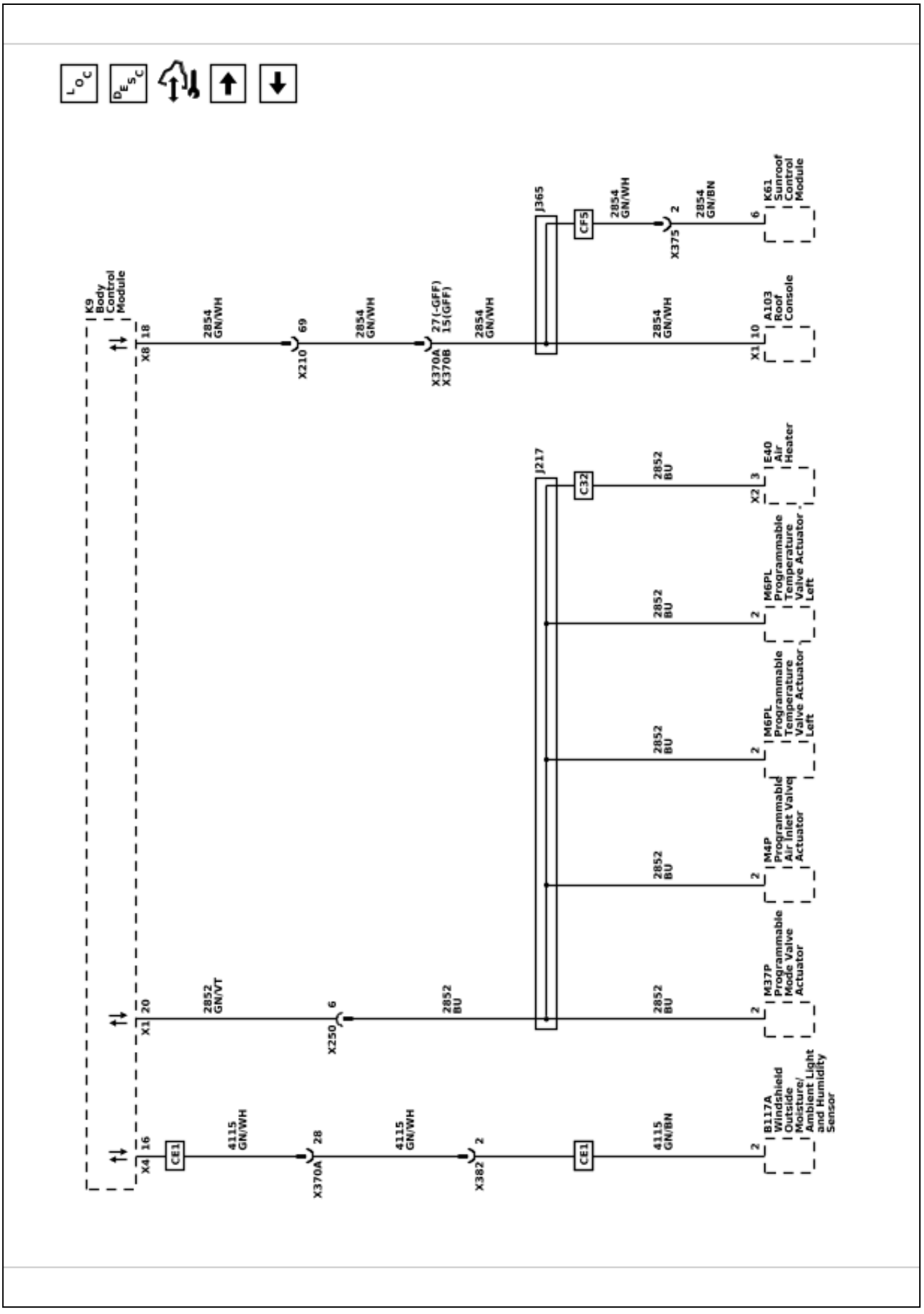
Data Communication Schematics (Powertrain CAN Enable)



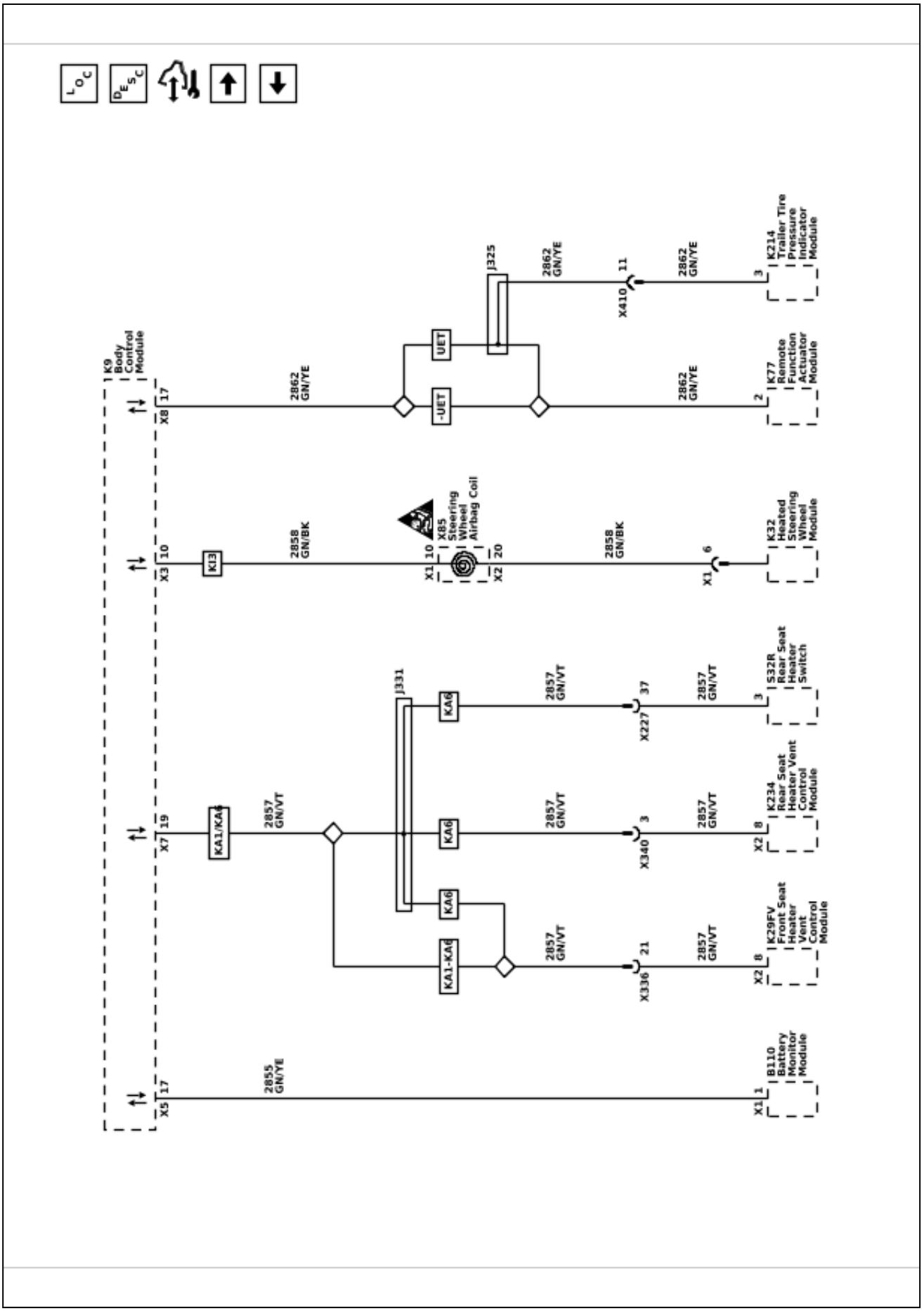
Data Communication Schematics (Body Control Module Local Interconnect Network LIN Busses 2, 3, and 4)



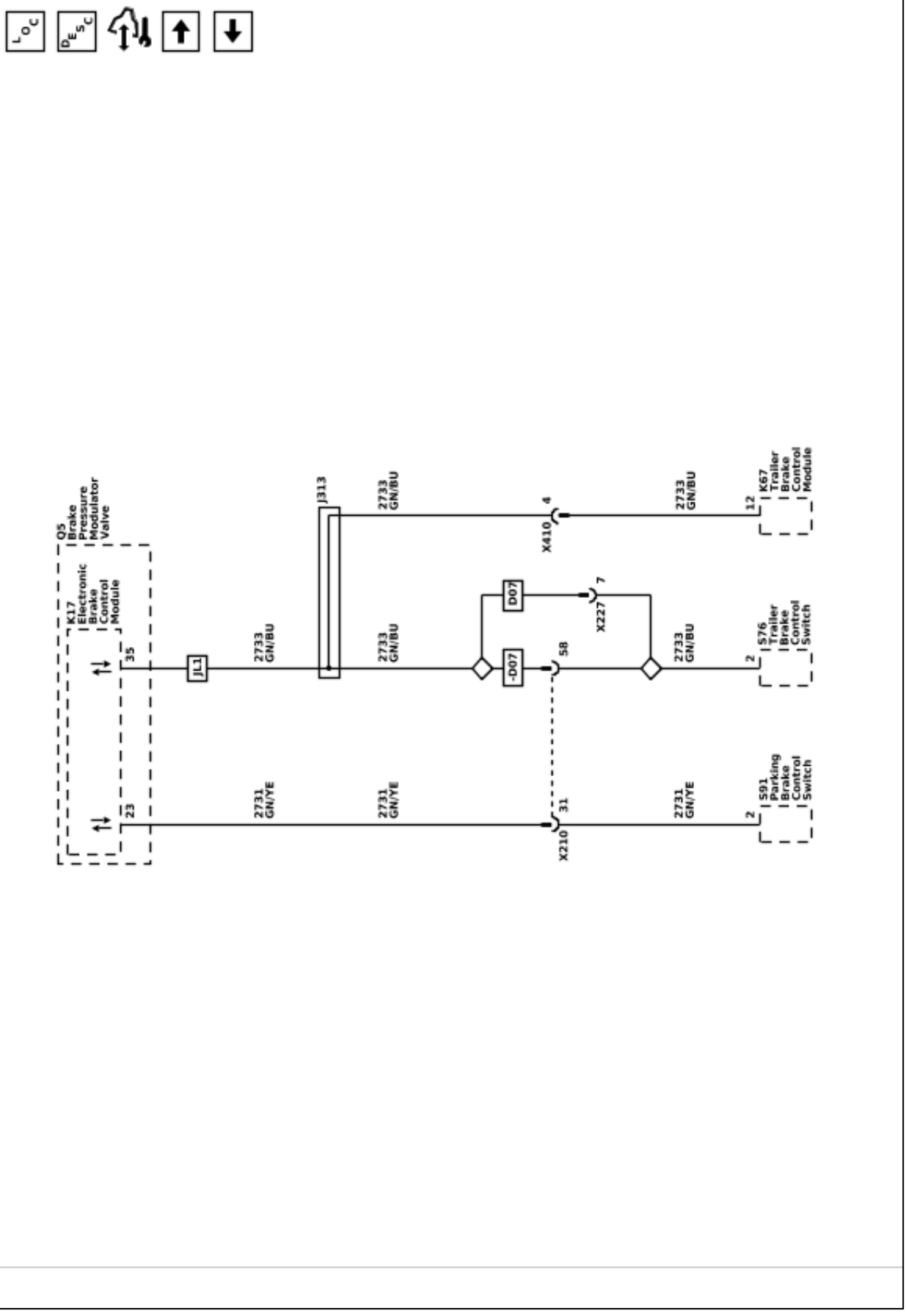
Data Communication Schematics (Body Control Module Local Interconnect Network LIN Busses 5, 6, and 8)



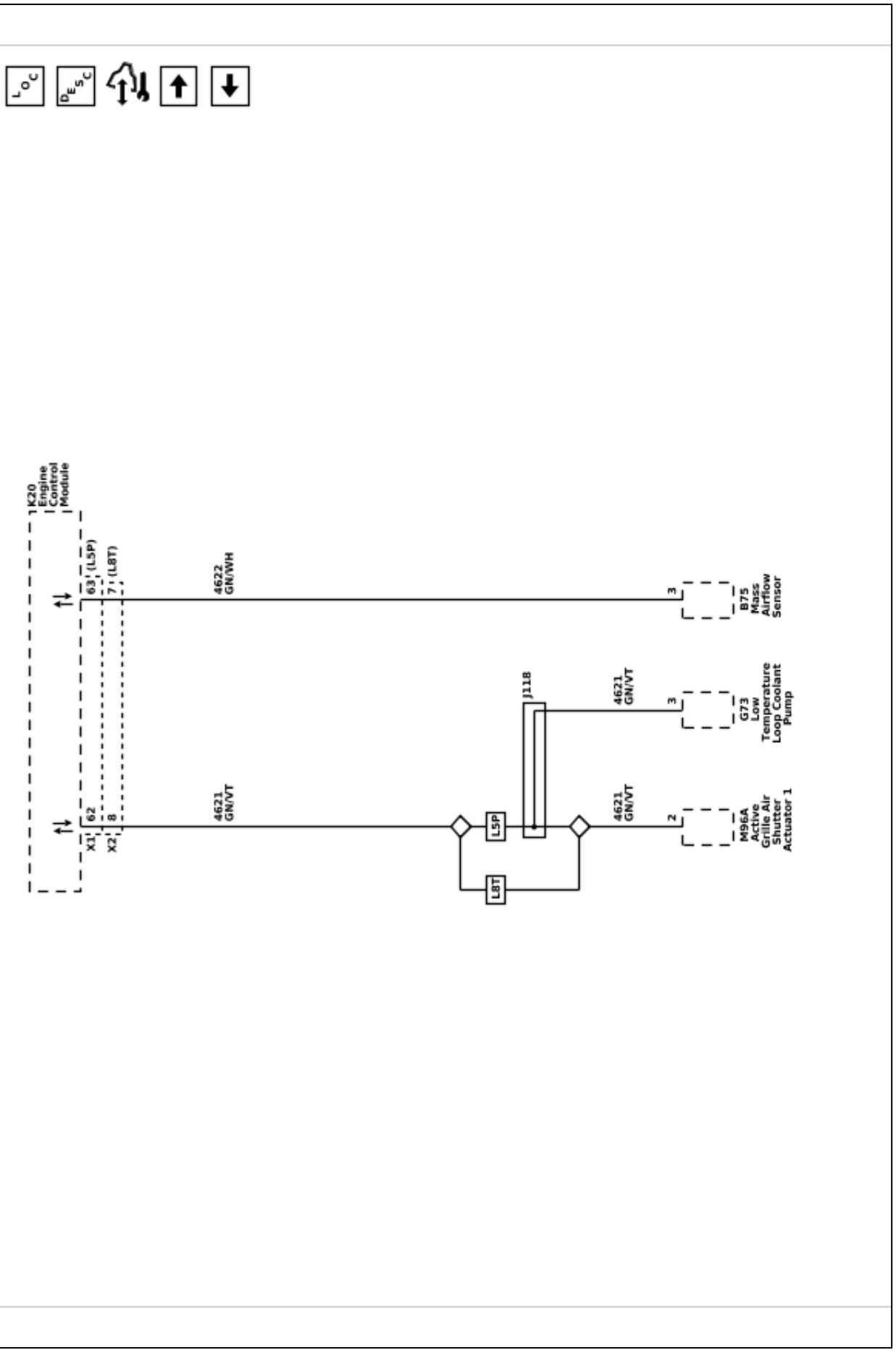
Data Communication Schematics (Body Control Module Local Interconnect Network LIN Busses 9, 11, 12, and 16)



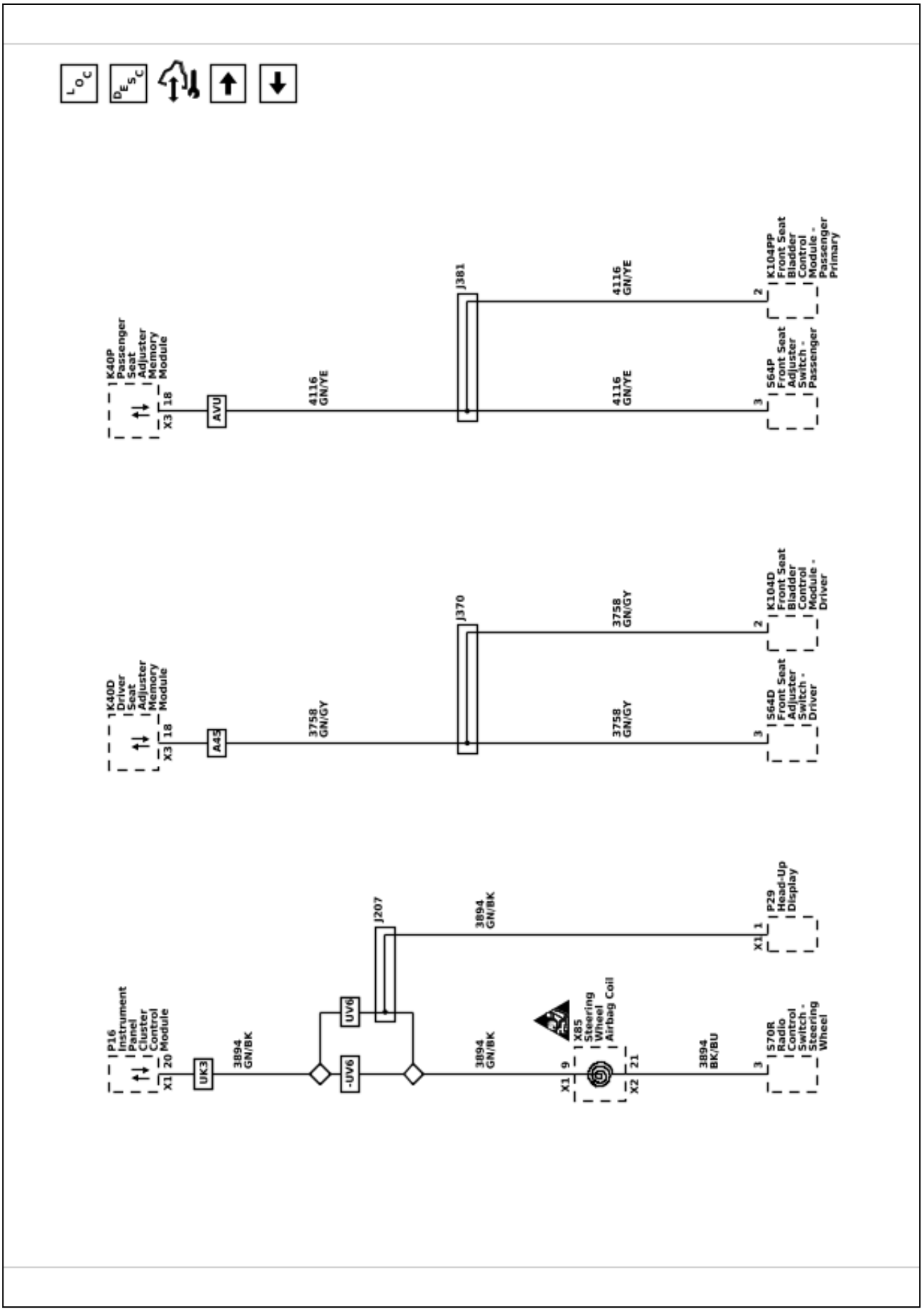
Data Communication Schematics (Brake System Control Module Local Interconnect Network LIN Busses)



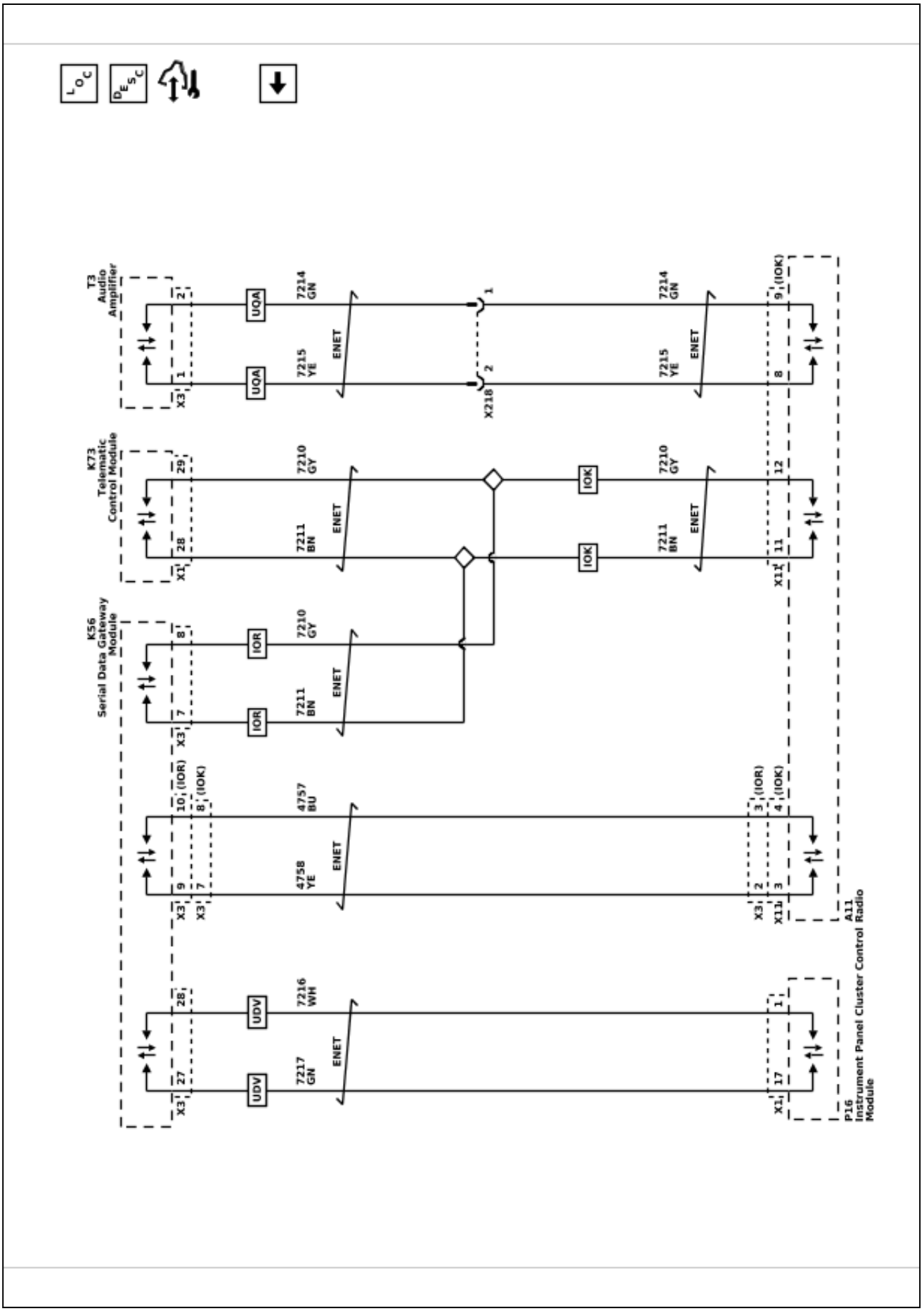
Data Communication Schematics (Engine Control Module Local Interconnect Network LIN Busses)



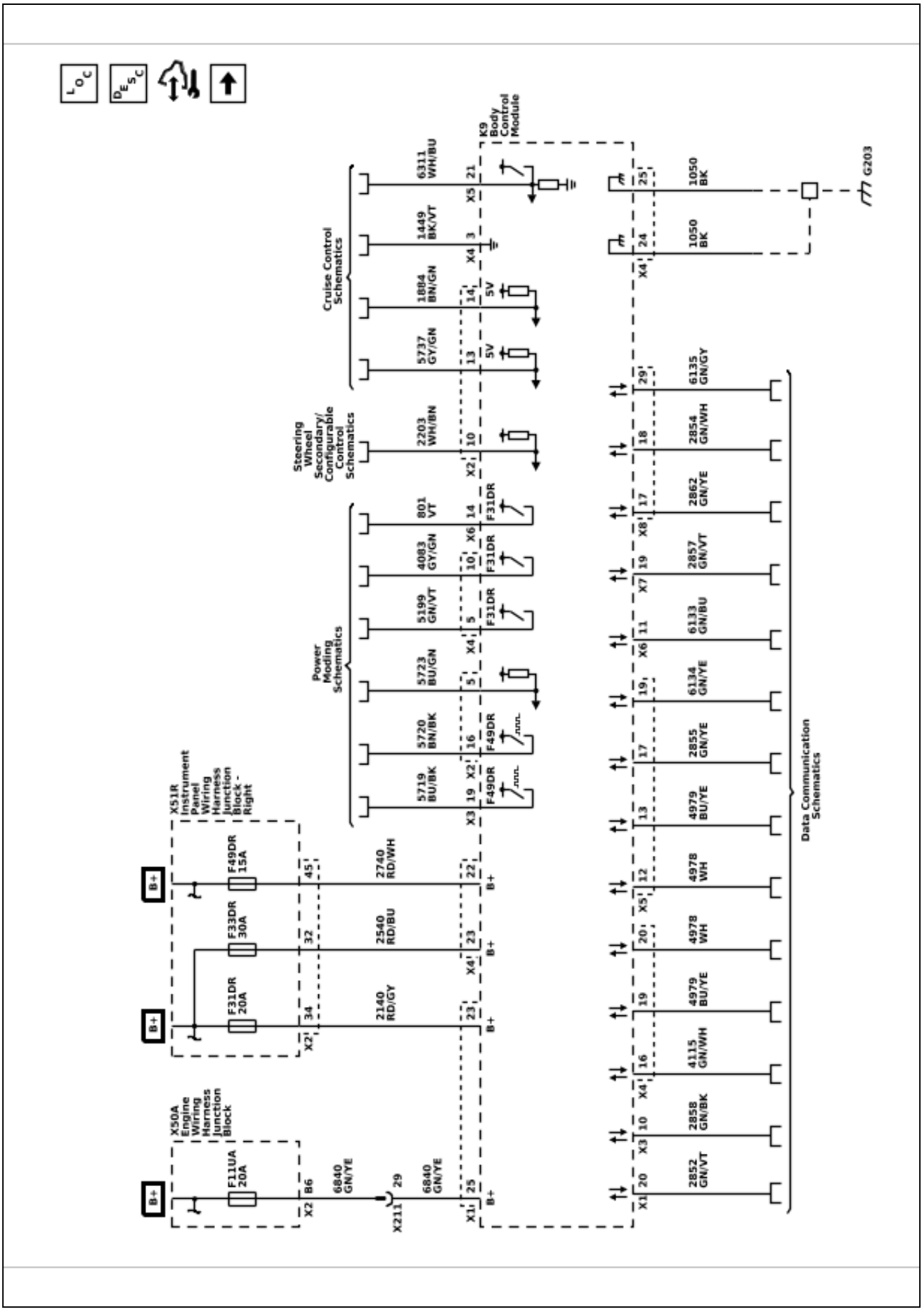
Data Communication Schematics (Instrument Panel Cluster, and Seat Memory Module Local Interconnect Network (LIN) Busses)



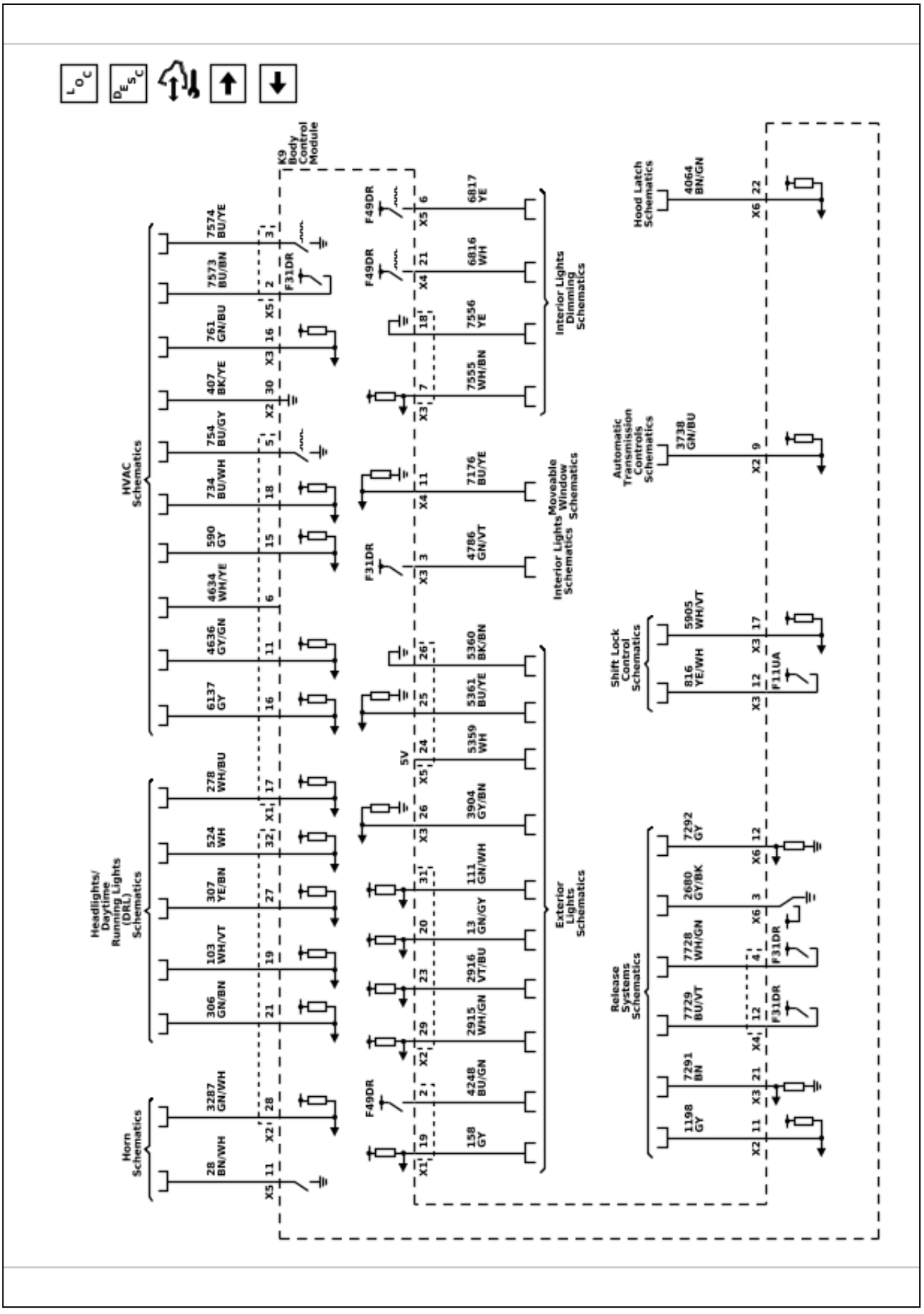
Data Communication Schematics (Ethernet Bus)



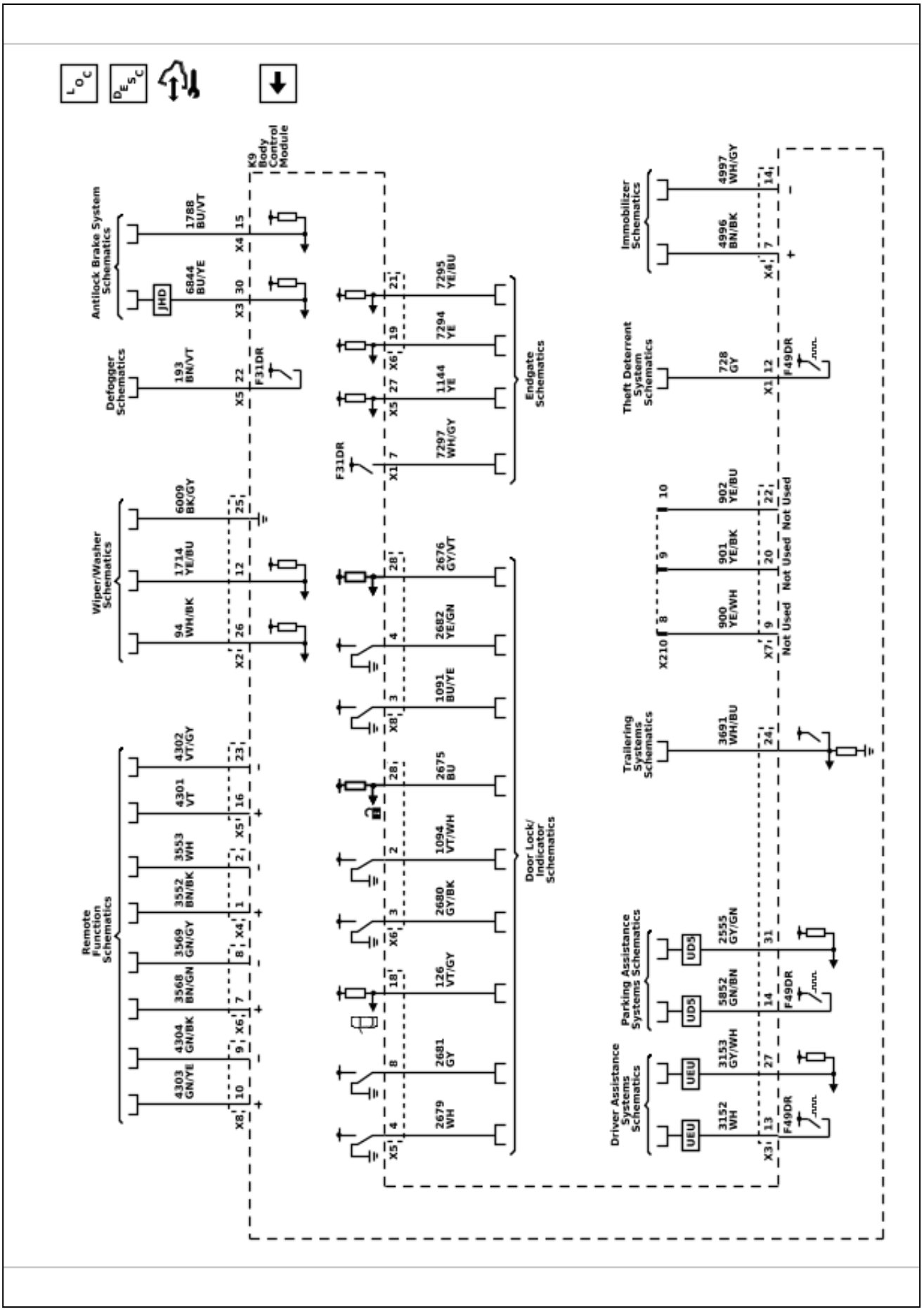
Body Control System Schematics (Power, Ground, Serial Data, and Subsystem References - 1 of 3)



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 Vbatt. 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+

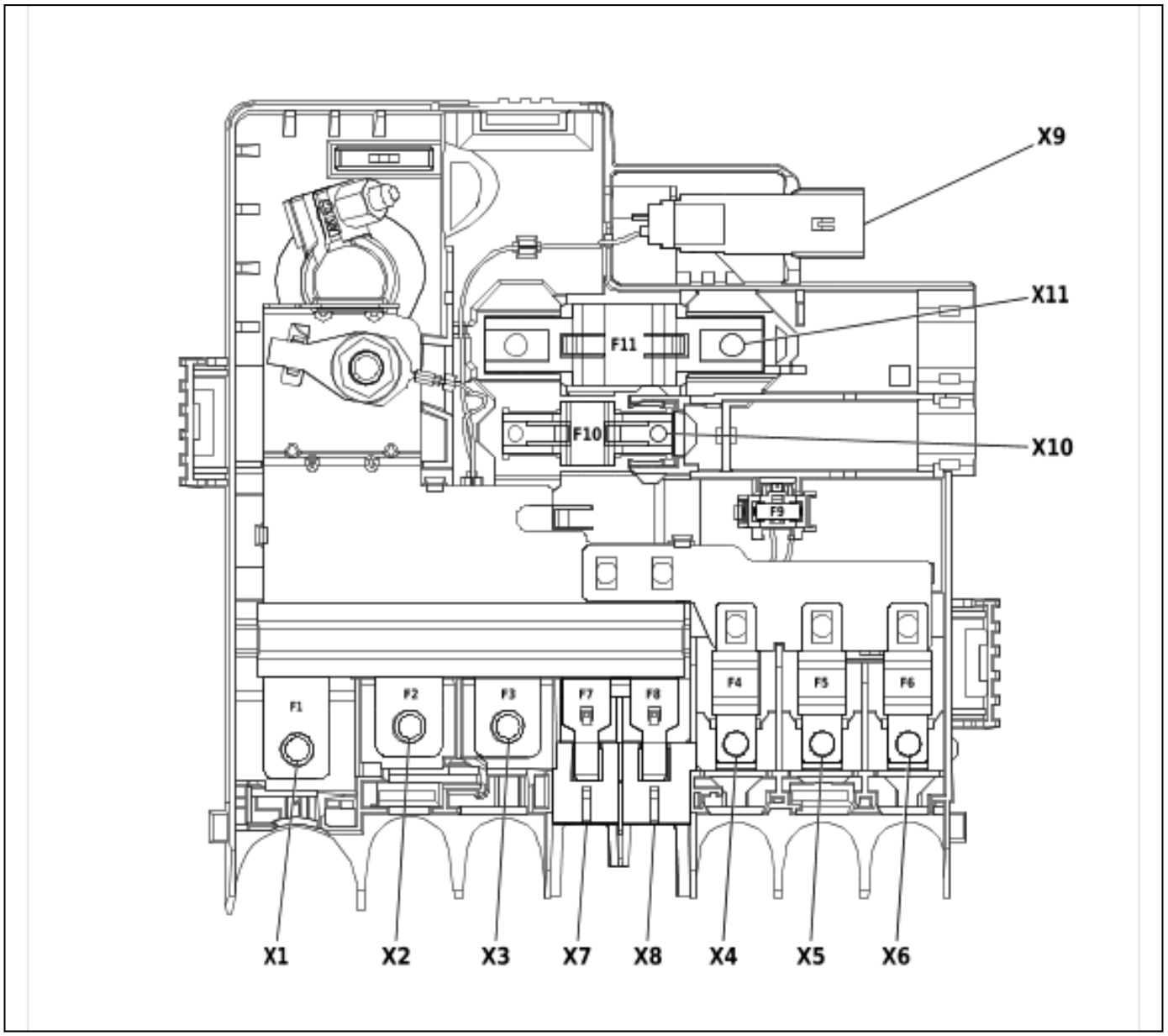
Serial Data Reference

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

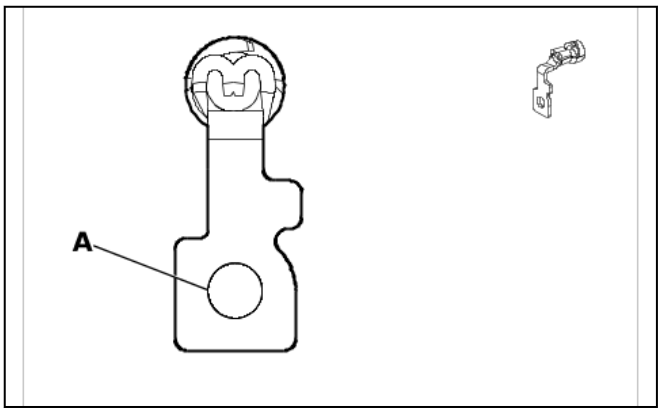
Component Locator

X50B Battery Distribution Engine Compartment Fuse Block Top View



5070128

X50B Battery Distribution Engine Compartment Fuse Block X1



5881464

Connector Part Information
- Harness Type: Generator Battery Jumper Cable
- OEM Connector: 84335252
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

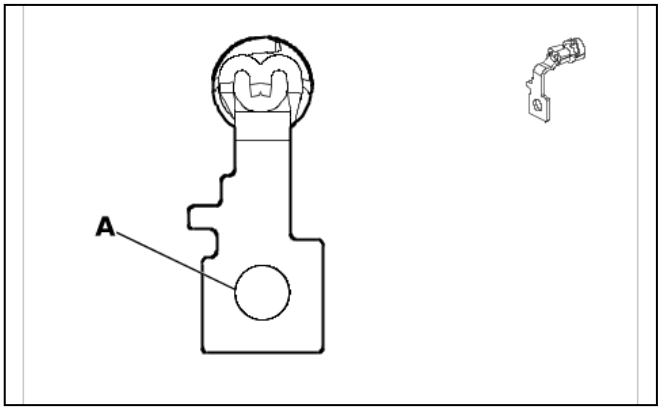
Terminal Part Information

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	35	RD / GN	242	Battery Positive Voltage	I	KW7
	35	RD / YE	2	Battery Positive Voltage	I	- KW7

X50B Battery Distribution Engine Compartment Fuse Block X2 (L5P)



5664311

Connector Part Information
- Harness Type: Battery Positive Cable
- OEM Connector: 1122401
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

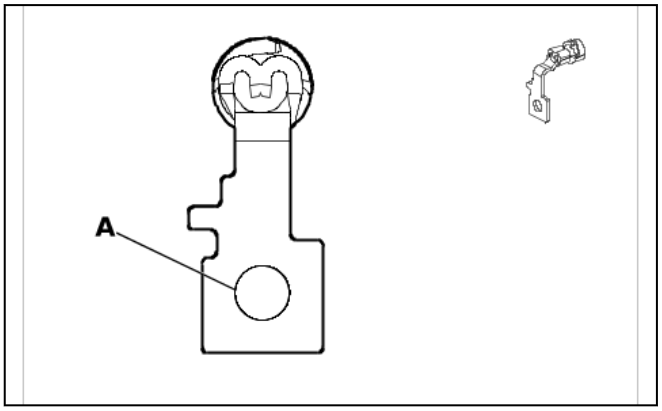
Terminal Part Information

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 (L5P)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD / GN	242	Battery Positive Voltage	I	—

X50B Battery Distribution Engine Compartment Fuse Block X2 (L8T - K4Z)



5664311

Connector Part Information

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

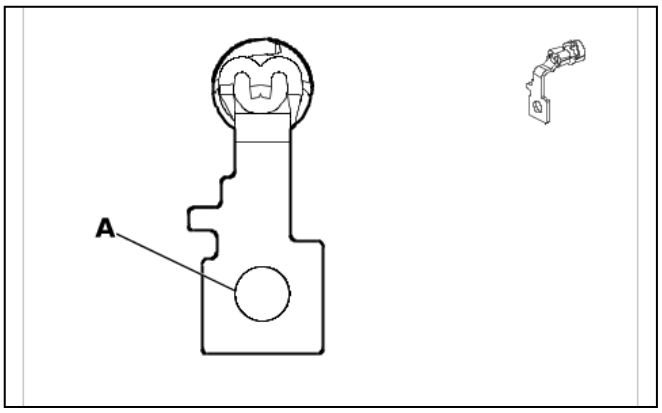
Terminal Part Information

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 (L8T - K4Z)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD / GN	242	Battery Positive Voltage	I	—

X50B Battery Distribution Engine Compartment Fuse Block X2 (L8T & K4Z)



5664311

Connector Part Information
- Harness Type: Battery Positive Cable
- OEM Connector: 84386514
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

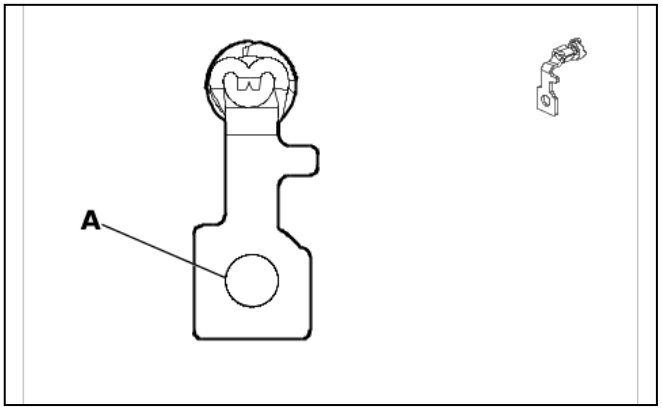
Terminal Part Information

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 (L8T & K4Z)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD / GN	242	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

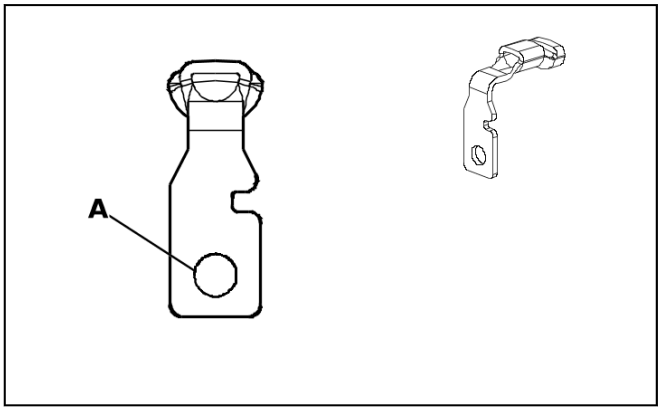
Terminal Part Information

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



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

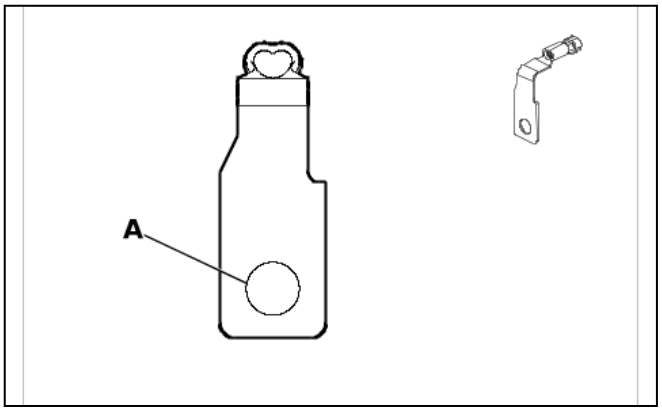
Terminal Part Information

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

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 (L5P)



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

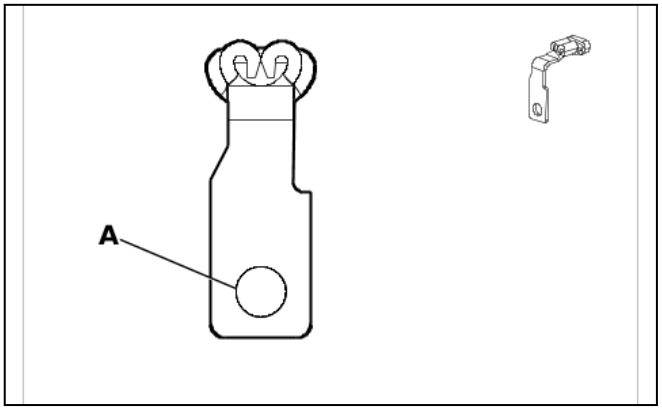
Terminal Part Information

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 (L5P)

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 X5 (L8T)



5838179

Connector Part Information
- Harness Type: Battery Positive Cable
- OEM Connector: 84386517
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

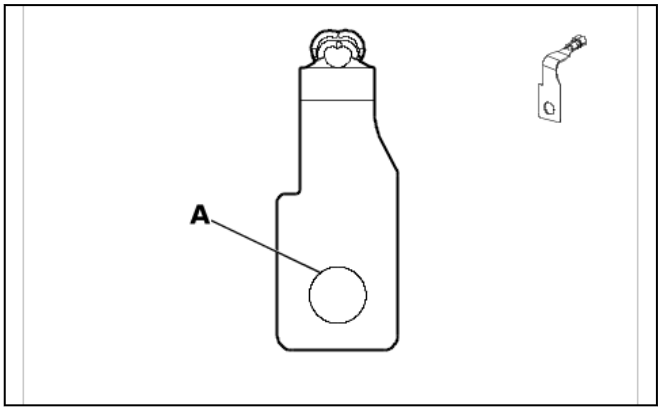
Terminal Part Information

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 (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	16	RD / GN	742	Battery Positive Voltage	I	—

X50B Battery Distribution Engine Compartment Fuse Block X6



6167349

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35510990
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

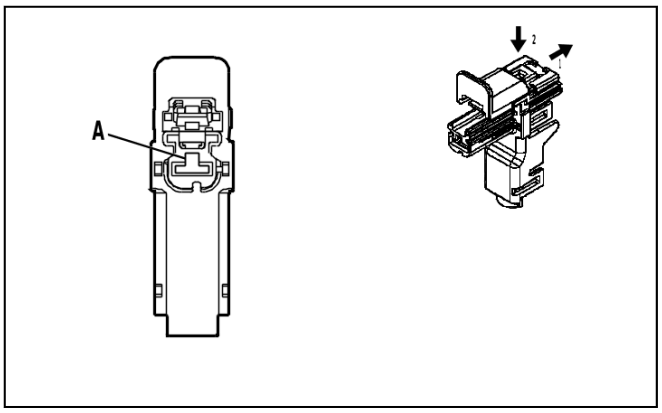
Terminal Part Information

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	6	BN / BU	104	Glow Plug Control	I	—

X50B Battery Distribution Engine Compartment Fuse Block X7



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)

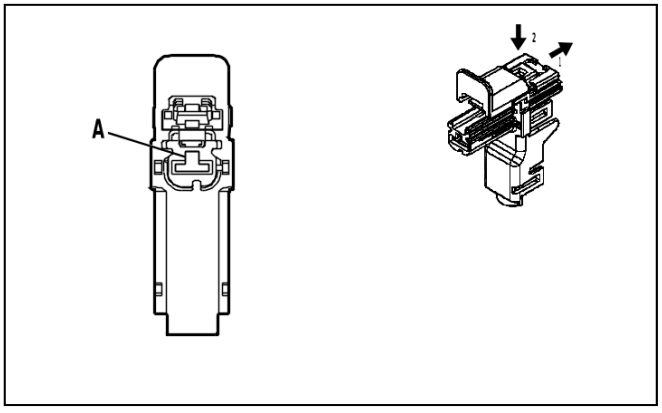
Terminal Part Information

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 X7

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 X8



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)

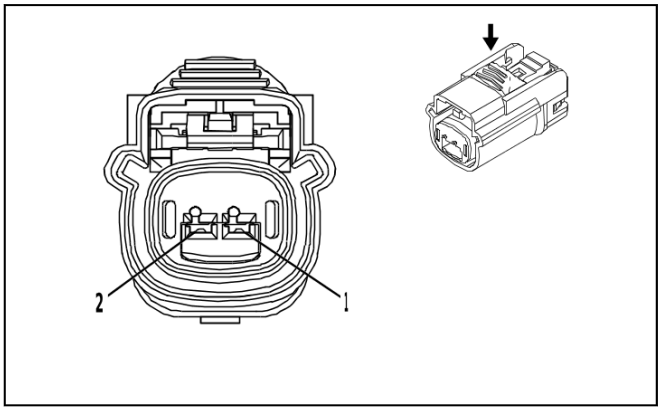
Terminal Part Information

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 X8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD / WH	342	Battery Positive Voltage	I	—

X50B Battery Distribution Engine Compartment Fuse Block X9



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)

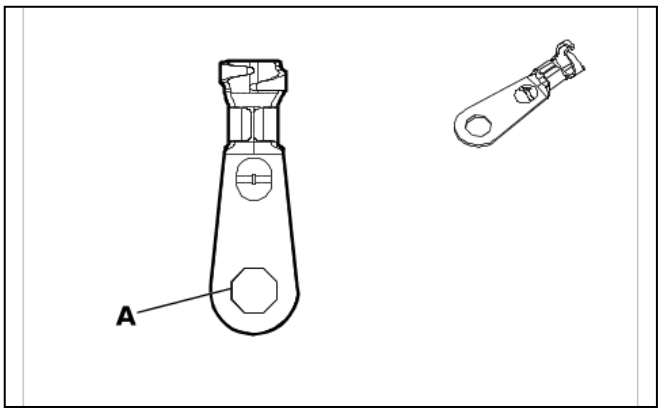
Terminal Part Information

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 X9

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	—	—

X50B Battery Distribution Engine Compartment Fuse Block X10



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

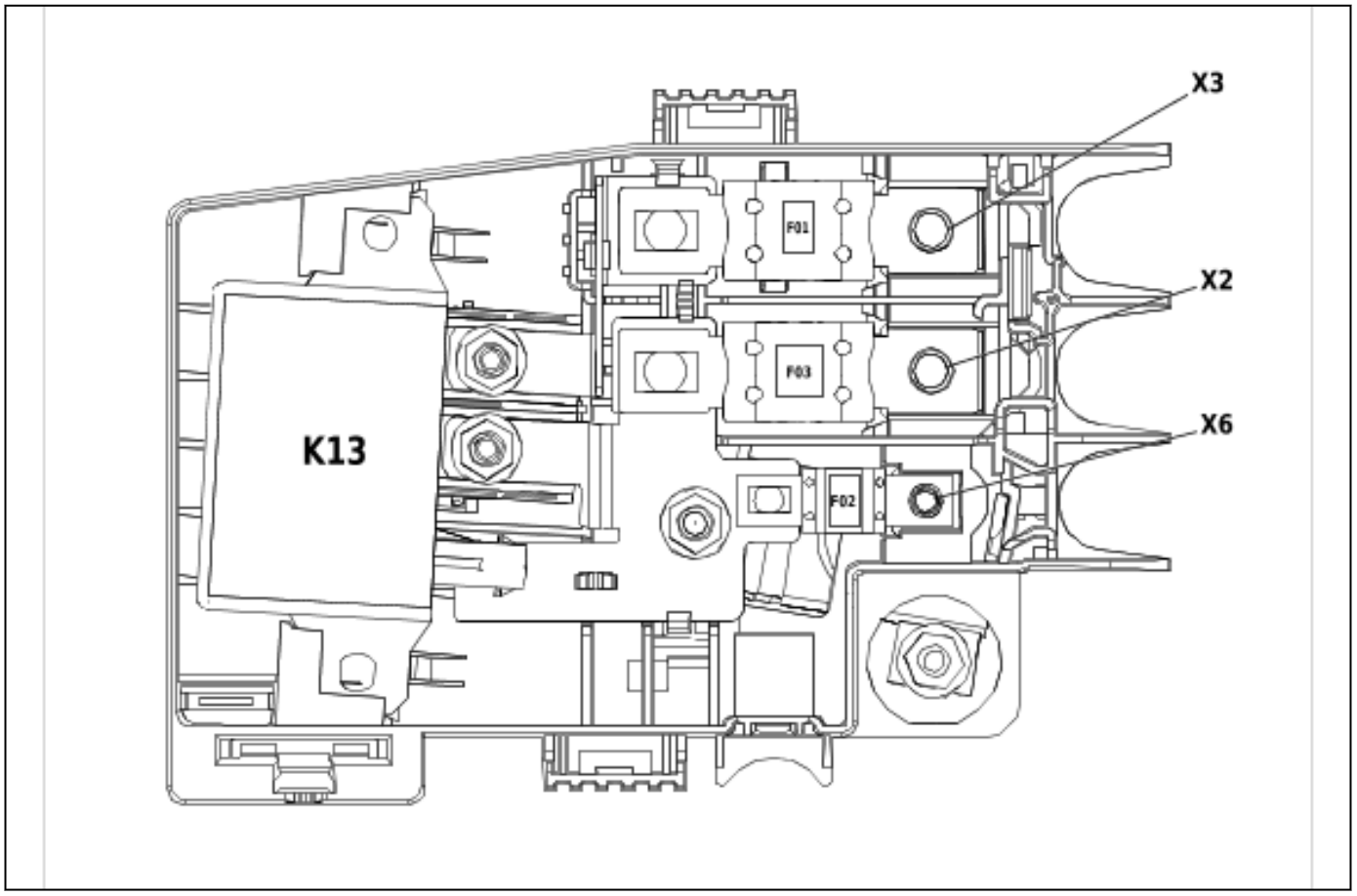
Terminal Part Information

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 X10

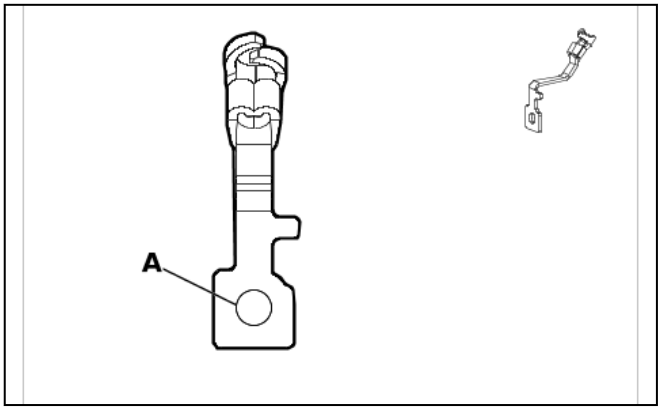
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD / VT	542	Battery Positive Voltage	I	—

X50EA Battery Distribution Fuse Block - Auxiliary Top View (L8T & K4Z)



6465526

X50EA Battery Distribution Fuse Block - Auxiliary X1



6444793

Connector Part Information

- Harness Type: Auxiliary Generator Battery Jumper Cable
- OEM Connector: 1129802
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

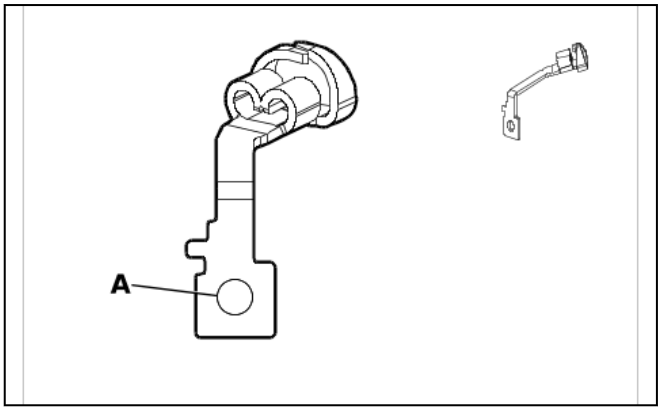
Terminal Part Information

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

X50EA Battery Distribution Fuse Block - Auxiliary X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD / YE	2	Battery Positive Voltage	I	—

X50EA Battery Distribution Fuse Block - Auxiliary X2



6444120

Connector Part Information

- Harness Type: Battery Positive Cable
- OEM Connector: 1128601
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

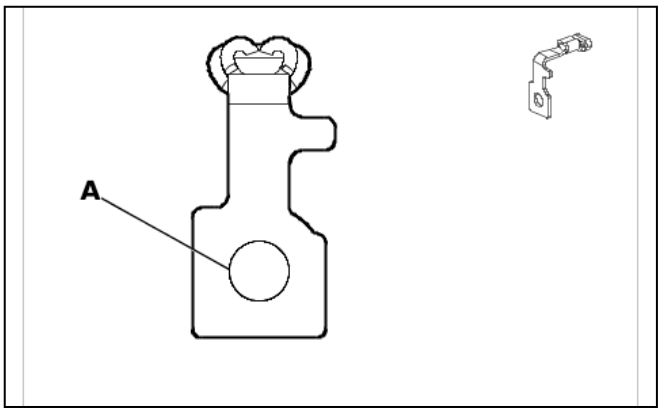
Terminal Part Information

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

X50EA Battery Distribution Fuse Block - Auxiliary X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25 35	RD / YE RD / GN	2 242	Battery Positive Voltage Battery Positive Voltage	I	— —

X50EA Battery Distribution Fuse Block - Auxiliary X3



5873864

Connector Part Information
- Harness Type: Battery Positive Cable
- OEM Connector: 84537527
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

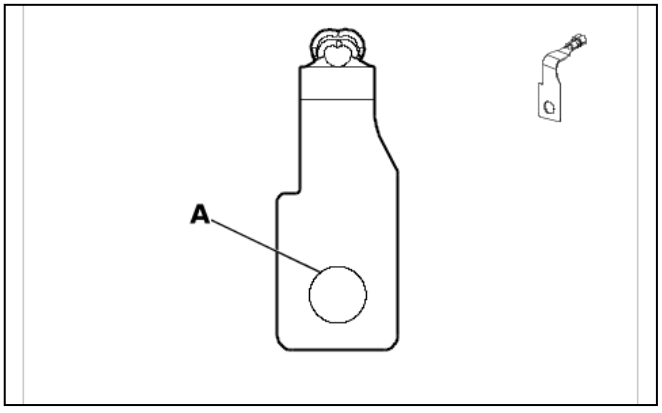
Terminal Part Information

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

X50EA Battery Distribution Fuse Block - Auxiliary X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	16	RD / YE	2	Battery Positive Voltage	I	—

X50EA Battery Distribution Fuse Block - Auxiliary X6



6167349

Connector Part Information
- Harness Type: Battery Positive Cable
- OEM Connector: 84392525
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

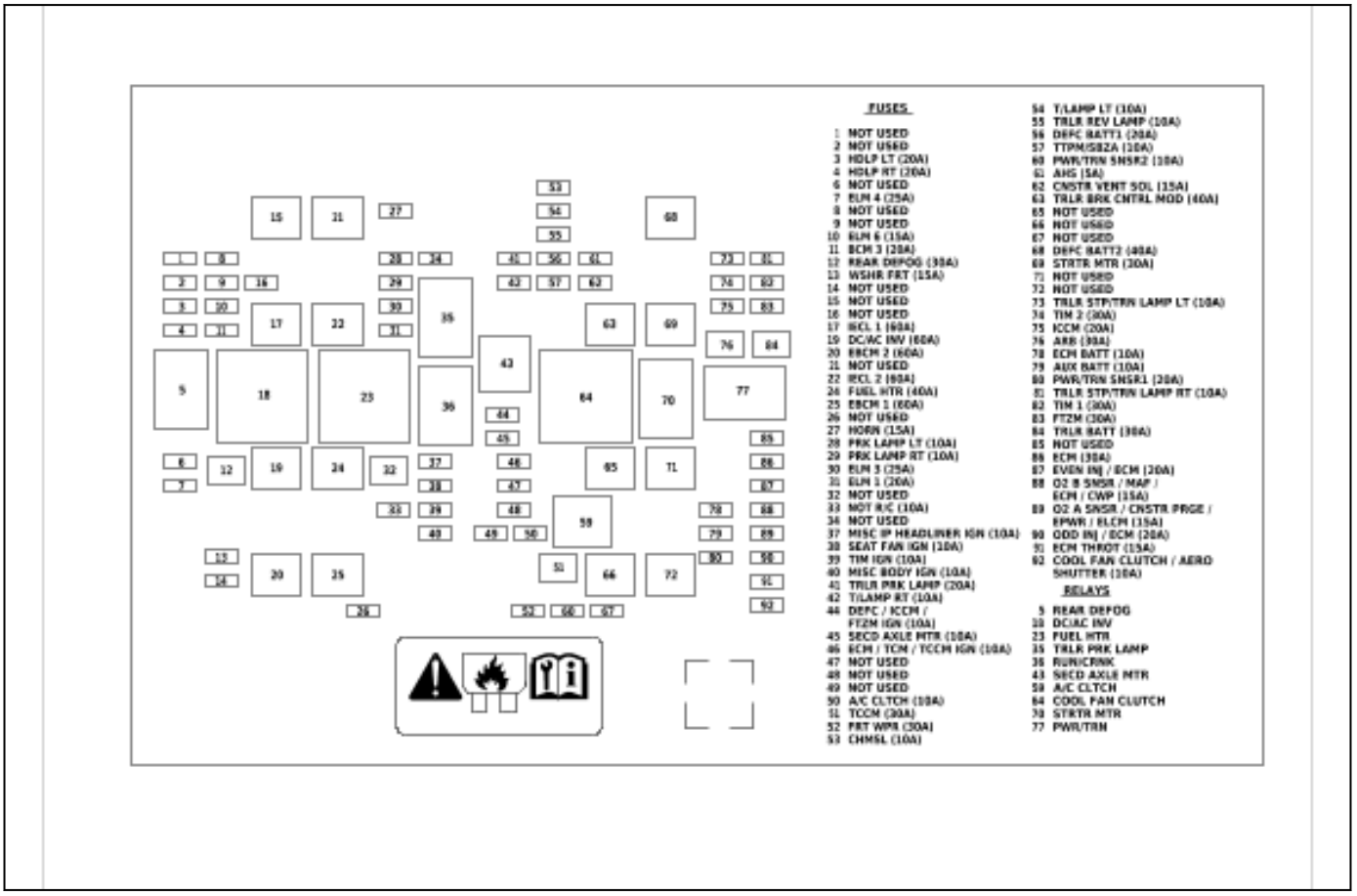
Terminal Part Information

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

X50EA Battery Distribution Fuse Block - Auxiliary X6

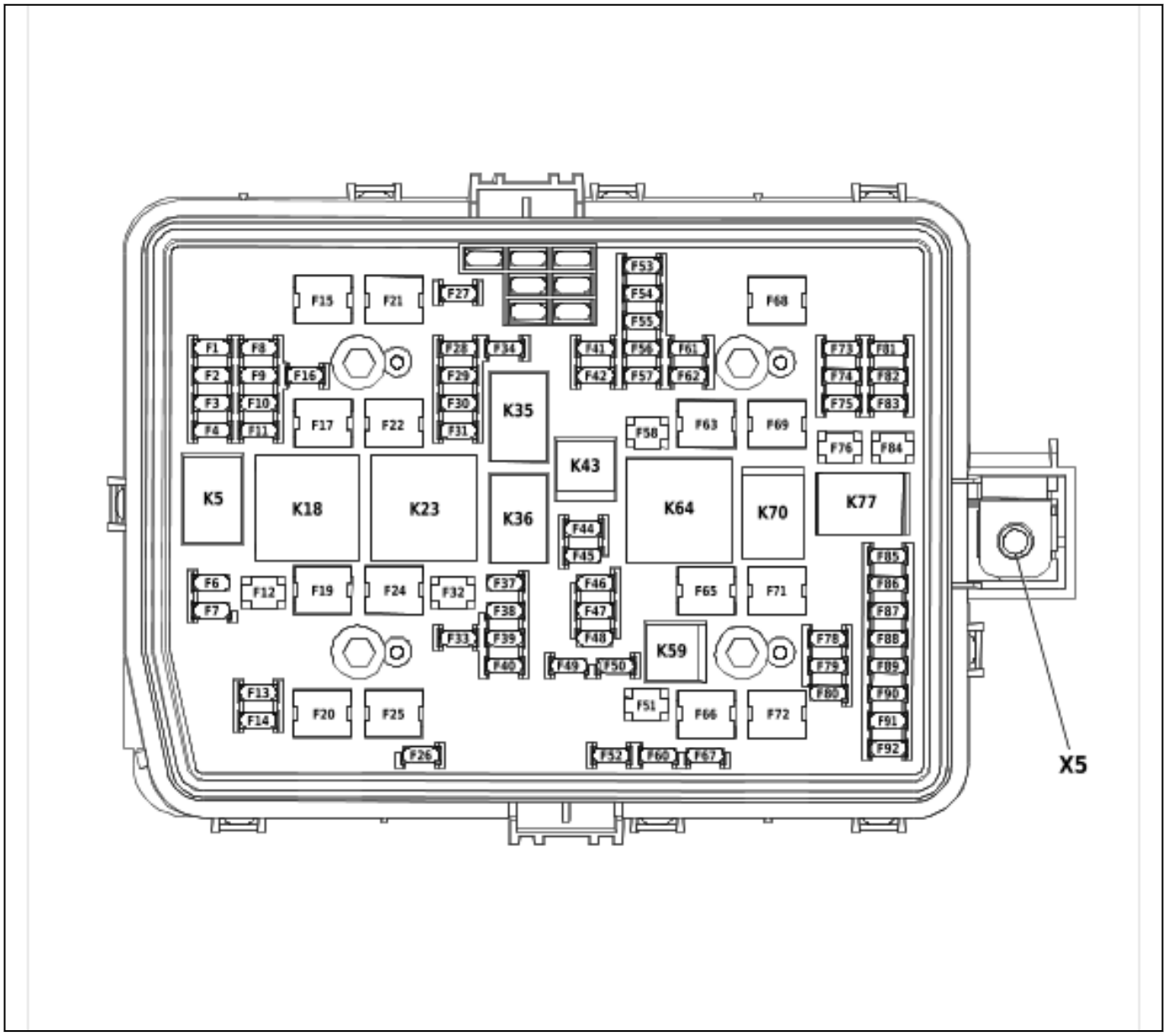
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	4	RD / GN	842	Battery Positive Voltage	I	—

X50A Engine Wiring Harness Junction Block Label



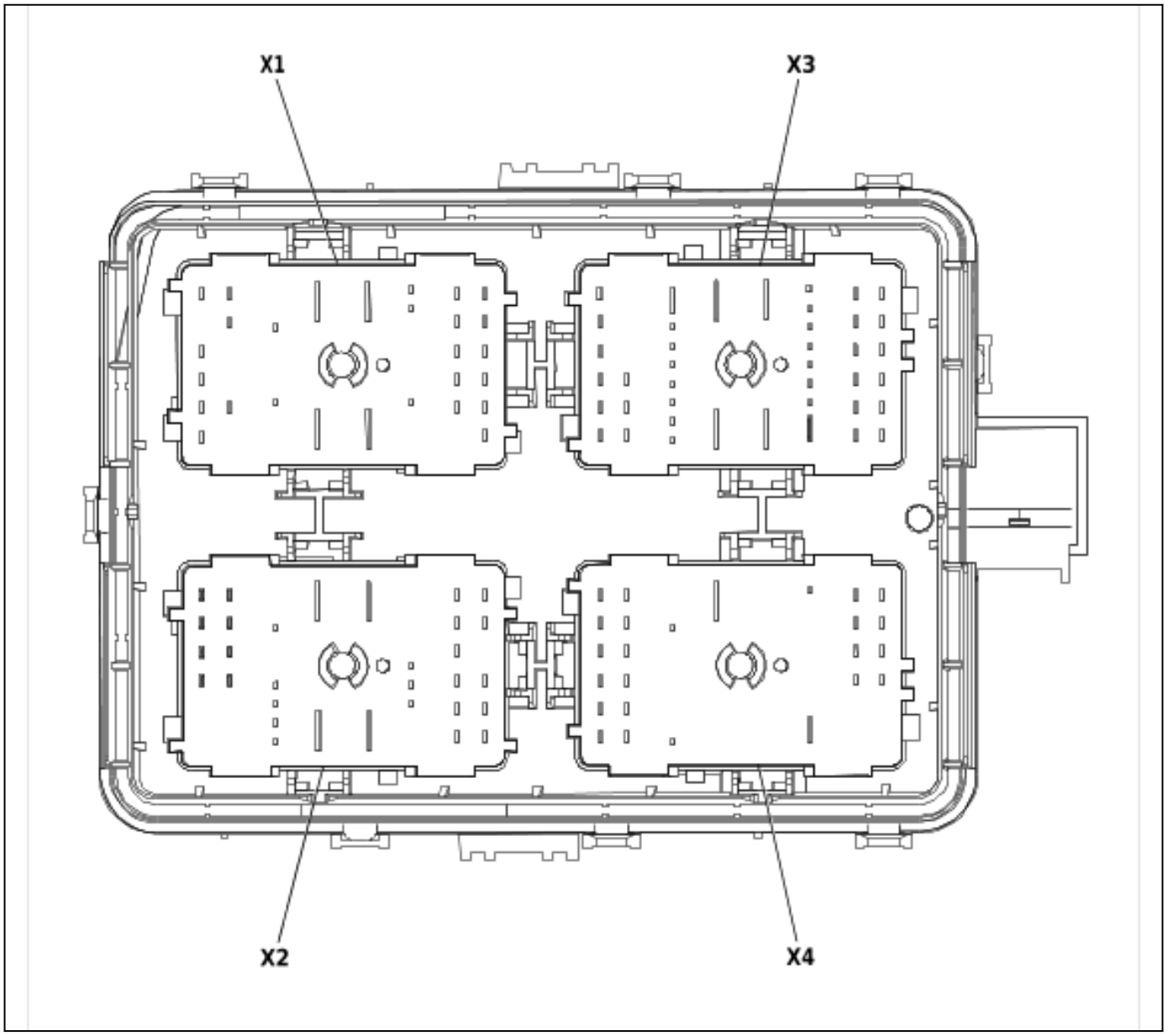
6401221

X50A Engine Wiring Harness Junction Block Top View



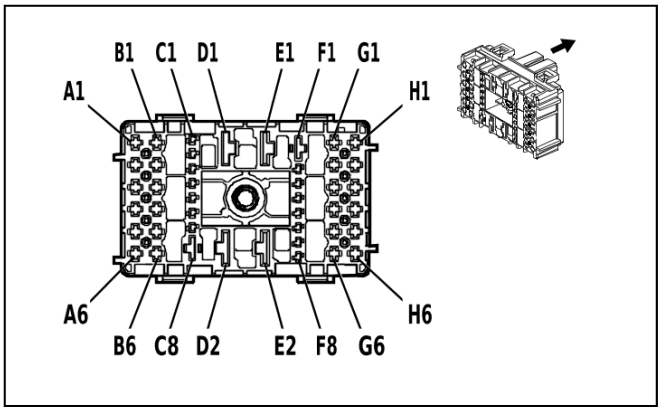
6485542

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

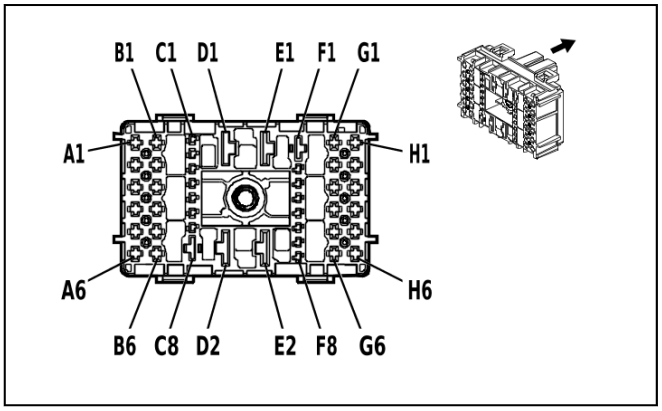
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19369711	J-35616-14 (GN)	EL-38125-560A
II	84764079	J-35616-44 (YE)	J-38125-11A
III	84779405	J-35616-35 (VT)	J-38125-215A

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	1	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	6	RD / WH	1642	Battery Positive Voltage	II	—
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	—
F7 - G2	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
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 / BK	739	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

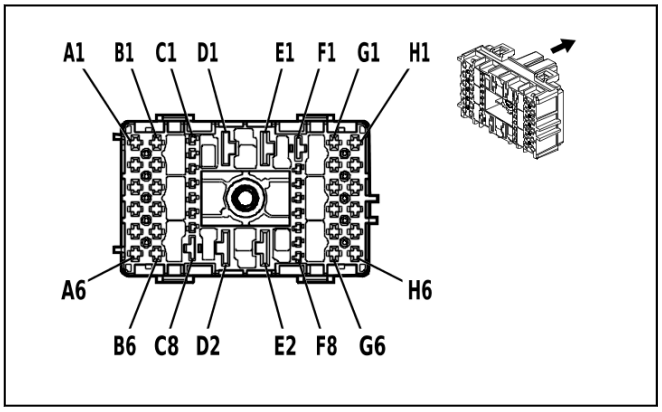
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19369711	J-35616-14 (GN)	EL-38125-560A
II	84779405	J-35616-35 (VT)	J-38125-215A
III	Not required	J-35616-44 (YE)	No Tool Required

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	—	—
B5	0.5	RD / BU	840	Battery Positive Voltage	II	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
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	0.5	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 - 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

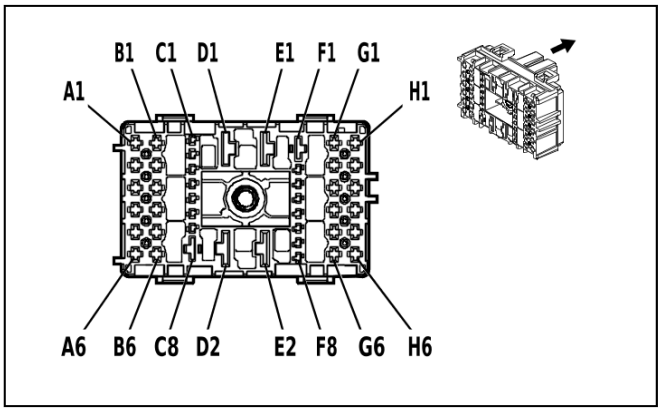
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19369711	J-35616-14 (GN)	EL-38125-560A
II	84764078	J-35616-42 (RD)	J-38125-215A
III	84779405	J-35616-35 (VT)	J-38125-215A

X50A Engine Wiring Harness Junction Block X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.75 0.75	VT / GN VT / GN	439 439	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	III III	L5P L8T
A2 - A3	—	—	—	Not Occupied	—	—
A4	0.75 0.75	BN / GN BN / GN	59 59	Air Conditioning Compressor Clutch Control Air Conditioning Compressor Clutch Control	III III	L5P L8T
A5	—	—	—	Not Occupied	—	—
A6	0.5 0.5	GN GN	8016 8016	Secondary Axle Motor Control Secondary Axle Motor Control	III III	L5P L8T
B1	0.5	WH	2368	Cooling Fan Control Signal	III	—
B2	0.5	VT / BU	5705	Powertrain Main Relay Control	III	—
B3	0.5 0.5	VT / GY VT / GY	8017 8017	Secondary Axle Motor Relay Control Secondary Axle Motor Relay Control	III III	L5P L8T
B4 - B5	—	—	—	Not Occupied	—	—
B6	3	GN / RD	6042	Cruise Control Switch 5V Reference	III	—
C1	0.5	BU	3017	Fuel Heater Relay 1 Control	I	—
C2	0.5	WH / BK	2366	Cooling Fan Speed Control Signal	I	—
C3	1.5	BK	450	Ground	I	—
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	0.75	VT / GN	4320	Powertrain Sensor Bus Enable	I	—
C7 - E2	—	—	—	Not Occupied	—	—
F1	2.5 2.5	YE YE	6 6	Starter Solenoid Crank Ignition Voltage Starter Solenoid Crank Ignition Voltage	II II	L5P L8T
F2	0.5	YE / BK	625	Starter Enable Relay Control	I	—
F3	0.75 0.5	RD / BN RD / BN	440 440	Battery Positive Voltage Battery Positive Voltage	I I	L5P L8T
F4	0.5	YE	5991	Powertrain Relay Coil Control	I	—
F5	0.5	RD / WH	3440	Battery Positive Voltage	I	—
F6	—	—	—	Not Occupied	—	—
F7	0.5	VT / BU	5705	Powertrain Main Relay Control	I	—
F8 - G1	—	—	—	Not Occupied	—	—
G2	1	VT / BU	5292	Powertrain Main Relay Fused Supply Voltage 3	III	—
G3	—	—	—	Not Occupied	—	—
G4	0.75	VT / BU	5293	Powertrain Main Relay Fused Supply Voltage 4	III	—
G5	1.5	VT / GN	4320	Powertrain Sensor Bus Enable	III	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
G6	0.75	VT / BU	5291	Powertrain Main Relay Fused Supply Voltage 2	III	—
H1	4 2.5	VT / BU VT / BU	5290 5290	Powertrain Main Relay Fused Supply Voltage 1 Powertrain Main Relay Fused Supply Voltage 1	III III	L5P L8T
H2	0.75	VT / BU	5292	Powertrain Main Relay Fused Supply Voltage 3	III	—
H3	1 1	VT / BU VT / BU	5294 5294	Powertrain Main Relay Fused Supply Voltage 5 Powertrain Main Relay Fused Supply Voltage 5	III III	L5P L8T
H4	0.75	VT / BU	5293	Powertrain Main Relay Fused Supply Voltage 4	III	—
H5	1	VT / BU	5291	Powertrain Main Relay Fused Supply Voltage 2	III	—
H6	2.5 0.75	VT / BU VT / BU	5290 5290	Powertrain Main Relay Fused Supply Voltage 1 Powertrain Main Relay Fused Supply Voltage 1	III III	L5P L8T

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

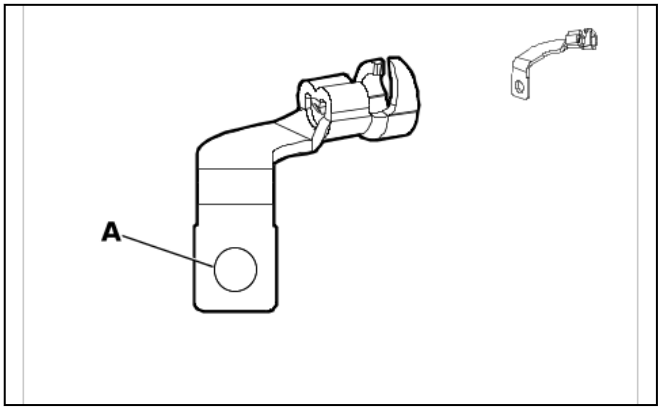
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19369711	J-35616-14 (GN)	EL-38125-560A
II	84764078	J-35616-42 (RD)	J-38125-215A
III	84764079	J-35616-44 (YE)	J-38125-11A
IV	84779405	J-35616-35 (VT)	J-38125-215A

X50A Engine Wiring Harness Junction Block X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1 - A2	—	—	—	Not Occupied	—	—
A3	1.5	BN	2109	Trailer Park Lamp Control	IV	—
A4	0.5	RD / WH	6440	Battery Positive Voltage	IV	—
A5	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A6	0.5	VT / WH	639	Run/Crank Ignition 1 Voltage	IV	—
B1	0.5	RD / WH	640	Battery Positive Voltage	IV	—
B2	1	GY	1624	Trailer Backup Lamp Control	IV	—
B3	1.5	RD / GN	2440	Battery Positive Voltage	IV	—
B4	0.5	RD / GN	6940	Battery Positive Voltage	IV	—
B5 - B6	—	—	—	Not Occupied	—	—
C1	0.5	RD / WH	5740	Battery Positive Voltage	I	—
C2 - C6	—	—	—	Not Occupied	—	—
C7	0.5	RD / WH	3440	Battery Positive Voltage	I	—
C8	2.5	BN / YE	2996	Fuel Heater Control 1	II	—
D1	—	—	—	Not Occupied	—	—
D2	4	RD / BN	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 / BN	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 4	OG RD / BU	3940 3940	Battery Positive Voltage Battery Positive Voltage	IV IV	L5P L8T

X50A Engine Wiring Harness Junction Block X5 (L5P)



6443464

Connector Part Information

- Harness Type: Battery Positive Cable
- OEM Connector: 1128202
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

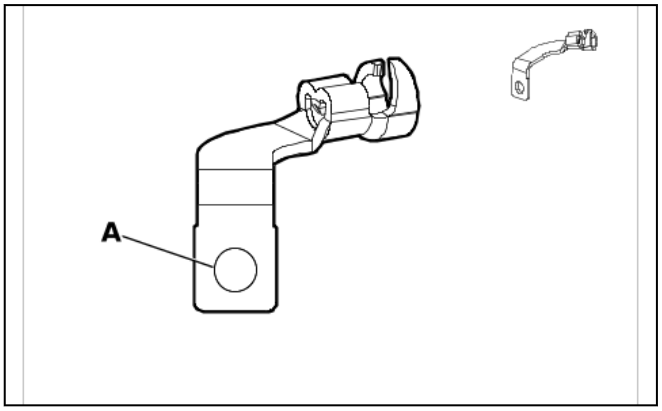
Terminal Part Information

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 (L5P)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD / YE	2	Battery Positive Voltage	I	—

X50A Engine Wiring Harness Junction Block X5 (L8T - K4Z)



6443464

Connector Part Information

- Harness Type: Battery Positive Cable
- OEM Connector: 1128202
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

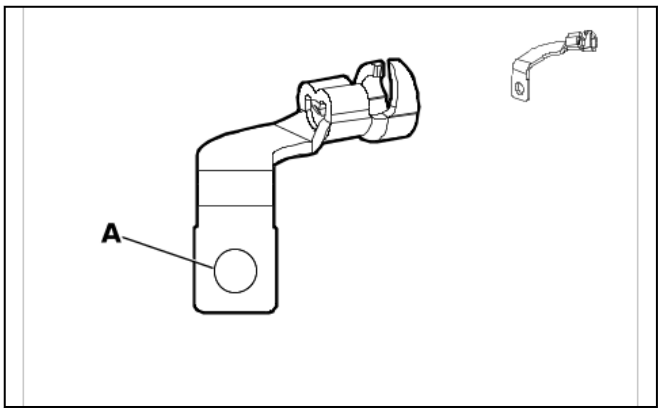
Terminal Part Information

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 (L8T - K4Z)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD / GN	242	Battery Positive Voltage	I	—

X50A Engine Wiring Harness Junction Block X5 (L8T & K4Z)



6443464

Connector Part Information
- Harness Type: Battery Positive Cable
- OEM Connector: 84537526
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

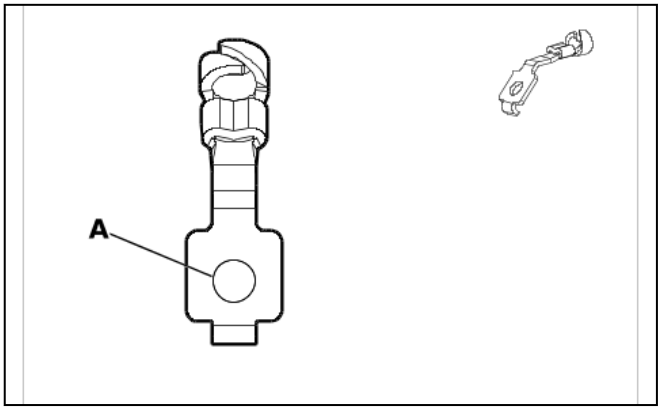
Terminal Part Information

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 (L8T & K4Z)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD / GN	242	Battery Positive Voltage	I	—

X50A Engine Wiring Harness Junction Block X5 (L8T & KHF)



6444148

Connector Part Information
- Harness Type: Auxiliary Generator Battery Jumper Cable
- OEM Connector: 84386099
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

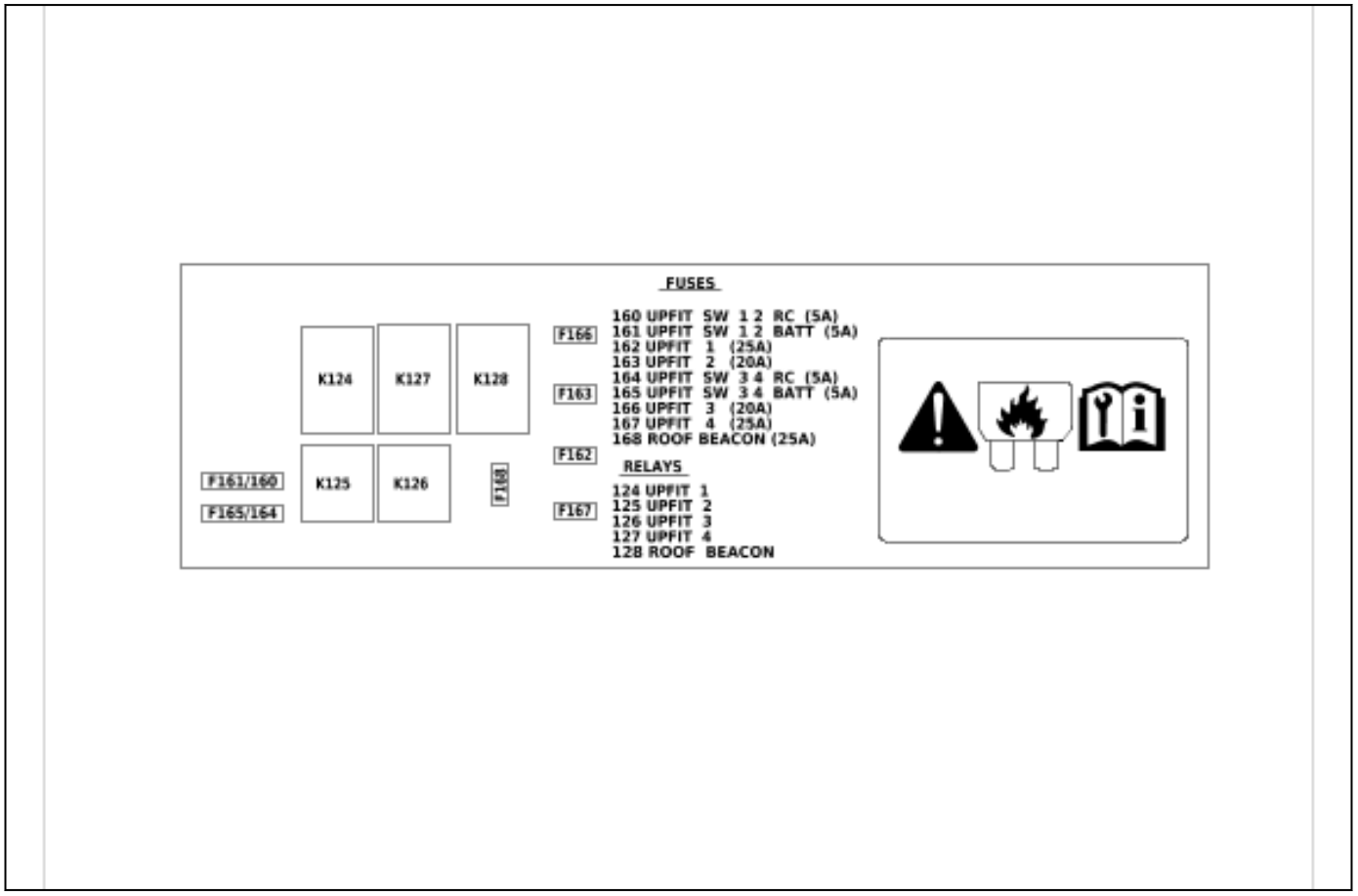
Terminal Part Information

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 (L8T & KHF)

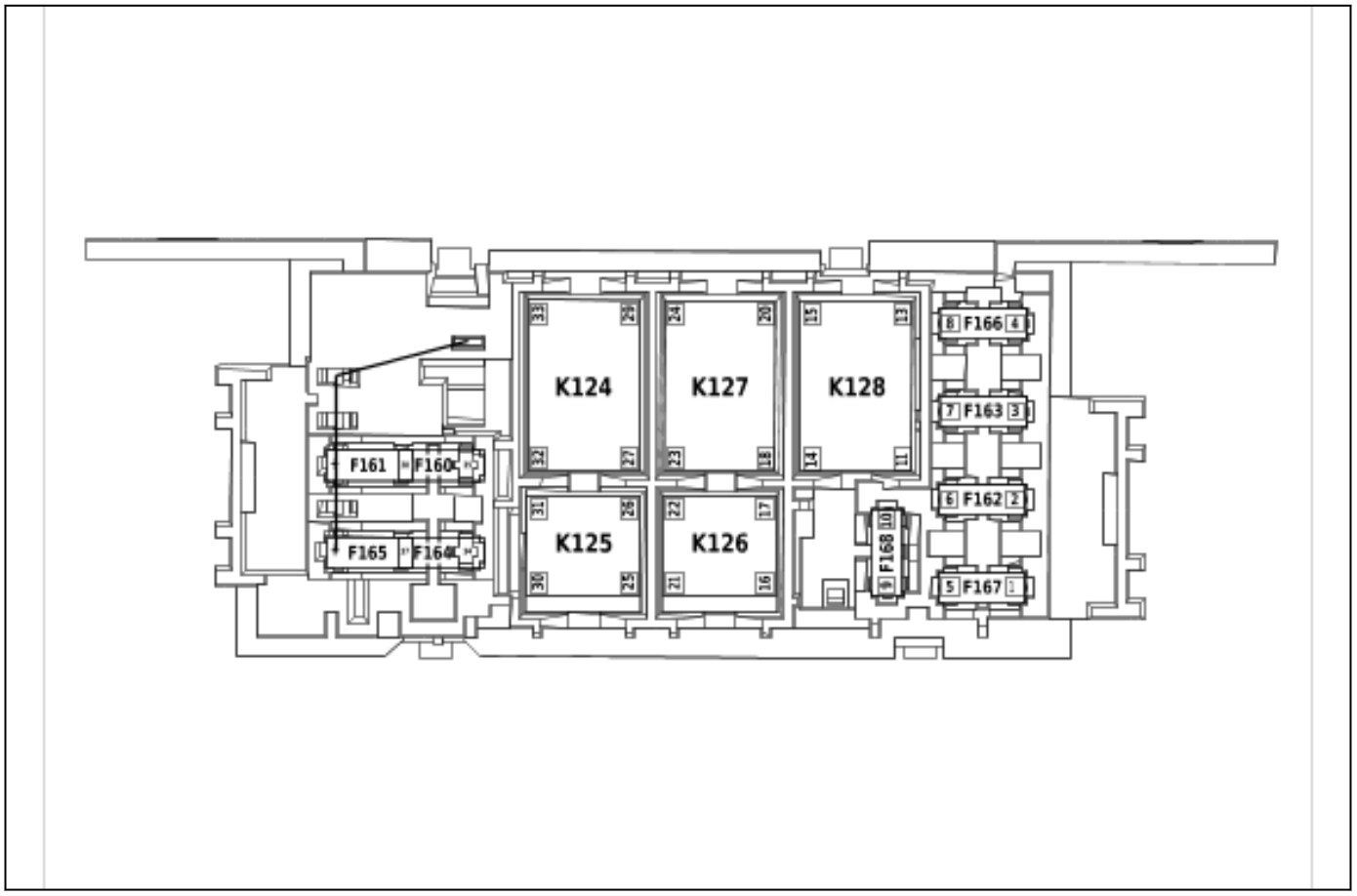
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD / YE	2	Battery Positive Voltage	I	—

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



5969422

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



5988611

X51AX Instrument Panel Wiring Harness Junction Block - Auxiliary

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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	19332366	J-35616-4A (PU)	J-38125-212
II	Not required	J-35616-22 (RD)	No Tool Required

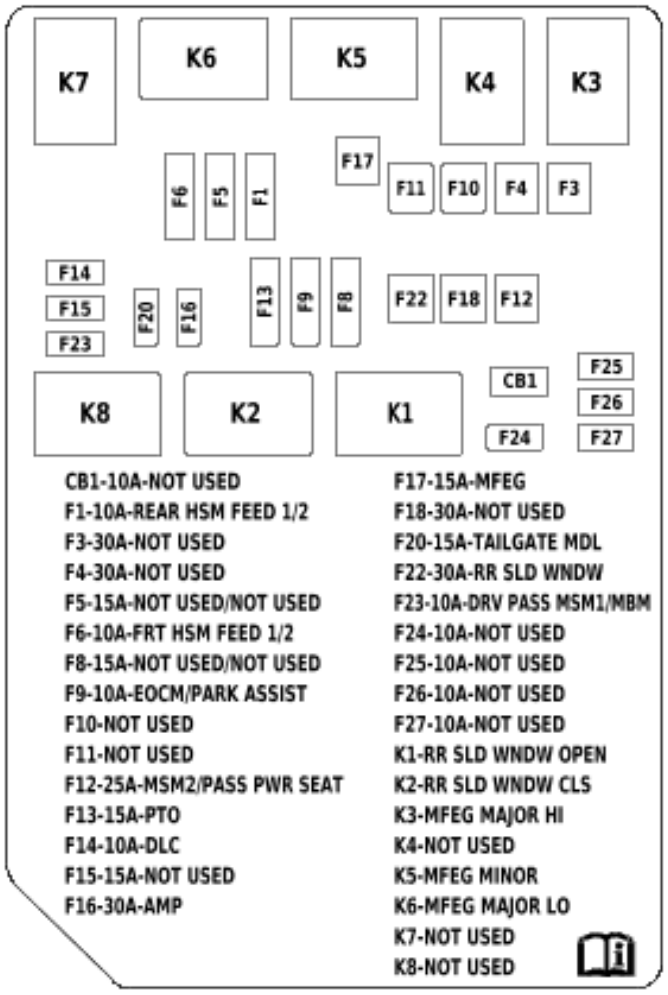
X51AX Instrument Panel Wiring Harness Junction Block - Auxiliary

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) I	(1) —
(2) 2	(2) 2.5	(2) BU	(2) 10731	(2) Upfitter Accessory 1 Supply Voltage	(2) I	(2) —
(3) 3	(3) 2.5	(3) GY / BK	(3) 10732	(3) Upfitter Accessory 2 Supply Voltage	(3) I	(3) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(4) 4	(4) 2.5	(4) BN / WH	(4) 10733	(4) Upfitter Accessory 3 Supply Voltage	(4) I	(4) —
(5) 5	(5) 2.5	(5) YE	(5) 10729	(5) Upfitter Accessory Fuse 4 Supply Voltage	(5) I	(5) —
(6) 6	(6) 2.5	(6) BU / GN	(6) 10726	(6) Upfitter Accessory Fuse 1 Supply Voltage	(6) I	(6) —
(7) 7	(7) 2.5	(7) GY	(7) 10727	(7) Upfitter Accessory Fuse 2 Supply Voltage	(7) I	(7) —
(8) 8	(8) 2.5	(8) BN	(8) 10728	(8) Upfitter Accessory Fuse 3 Supply Voltage	(8) I	(8) —
(9) 9	(9) 2.5	(9) VT / BU	(9) 10735	(9) Upfitter Accessory 5 Supply Voltage	(9) I	(9) —
(10) 10	(10) 2.5	(10) VT	(10) 10730	(10) Upfitter Accessory Fuse 5 Supply Voltage	(10) I	(10) —
(11) 11	(11) 2.5	(11) VT	(11) 10730	(11) Upfitter Accessory Fuse 5 Supply Voltage	(11) I	(11) —
(13) 13	(13) 0.35	(13) VT / BN	(13) 10723	(13) Upfitter Accessory Relay 3 Coil Supply Voltage	(13) I	(13) —
(14) 14	(14) 0.35	(14) GY / VT	(14) 10720	(14) Upfitter Accessory Relay 5 Coil Control	(14) I	(14) —
(15) 15	(15) 2.5	(15) RD / VT	(15) 542	(15) Battery Positive Voltage	(15) I	(15) —
(16) 16	(16) 2.5	(16) RD / VT	(16) 542	(16) Battery Positive Voltage	(16) I	(16) —
(17) 17	(17) 0.35	(17) GN / BN	(17) 10718	(17) Upfitter Accessory Relay 3 Coil Control	(17) I	(17) —
(18) 18	(18) 2.5	(18) YE	(18) 10729	(18) Upfitter Accessory Fuse 4 Supply Voltage	(18) I	(18) —
(20) 20	(20) 0.35	(20) VT / BN	(20) 10723	(20) Upfitter Accessory Relay 3 Coil Supply Voltage	(20) I	(20) —
(21) 21	(21) 0.35	(21) VT / BN	(21) 10723	(21) Upfitter Accessory Relay 3 Coil Supply Voltage	(21) I	(21) —
(22) 22	(22) 2.5	(22) BN	(22) 10728	(22) Upfitter Accessory Fuse 3 Supply Voltage	(22) I	(22) —
(23) 23	(23) 0.35	(23) WH / YE	(23) 10719	(23) Upfitter Accessory Relay 4 Coil Control	(23) I	(23) —
(24) 24	(24) 2.5	(24) RD / VT	(24) 542	(24) Battery Positive Voltage	(24) I	(24) —
(25) 25	(25) 2.5	(25) RD / VT	(25) 542	(25) Battery Positive Voltage	(25) I	(25) —
(26) 26	(26) 0.35	(26) VT / GY	(26) 10717	(26) Upfitter Accessory Relay 2 Coil Control	(26) I	(26) —
(27) 27	(27) 2.5	(27) BU / GN	(27) 10726	(27) Upfitter Accessory Fuse 1 Supply Voltage	(27) I	(27) —
(29) 29	(29) 0.35	(29) BU / VT	(29) 10721	(29) Upfitter Accessory Relay 1 Coil Supply Voltage	(29) I	(29) —
(30) 30	(30) 0.35	(30) BU / VT	(30) 10721	(30) Upfitter Accessory Relay 1 Coil Supply Voltage	(30) I	(30) —
(31) 31	(31) 2.5	(31) GY	(31) 10727	(31) Upfitter Accessory Fuse 2 Supply Voltage	(31) I	(31) —
(32) 32	(32) 0.35	(32) BU / WH	(32) 10716	(32) Upfitter Accessory Relay 1 Coil Control	(32) I	(32) —
(33) 33	(33) 2.5	(33) RD / VT	(33) 542	(33) Battery Positive Voltage	(33) I	(33) —
(34) 34	(34) 0.5	(34) VT / BK	(34) 339	(34) Run/Crank Ignition 1 Voltage	(34) I	(34) —

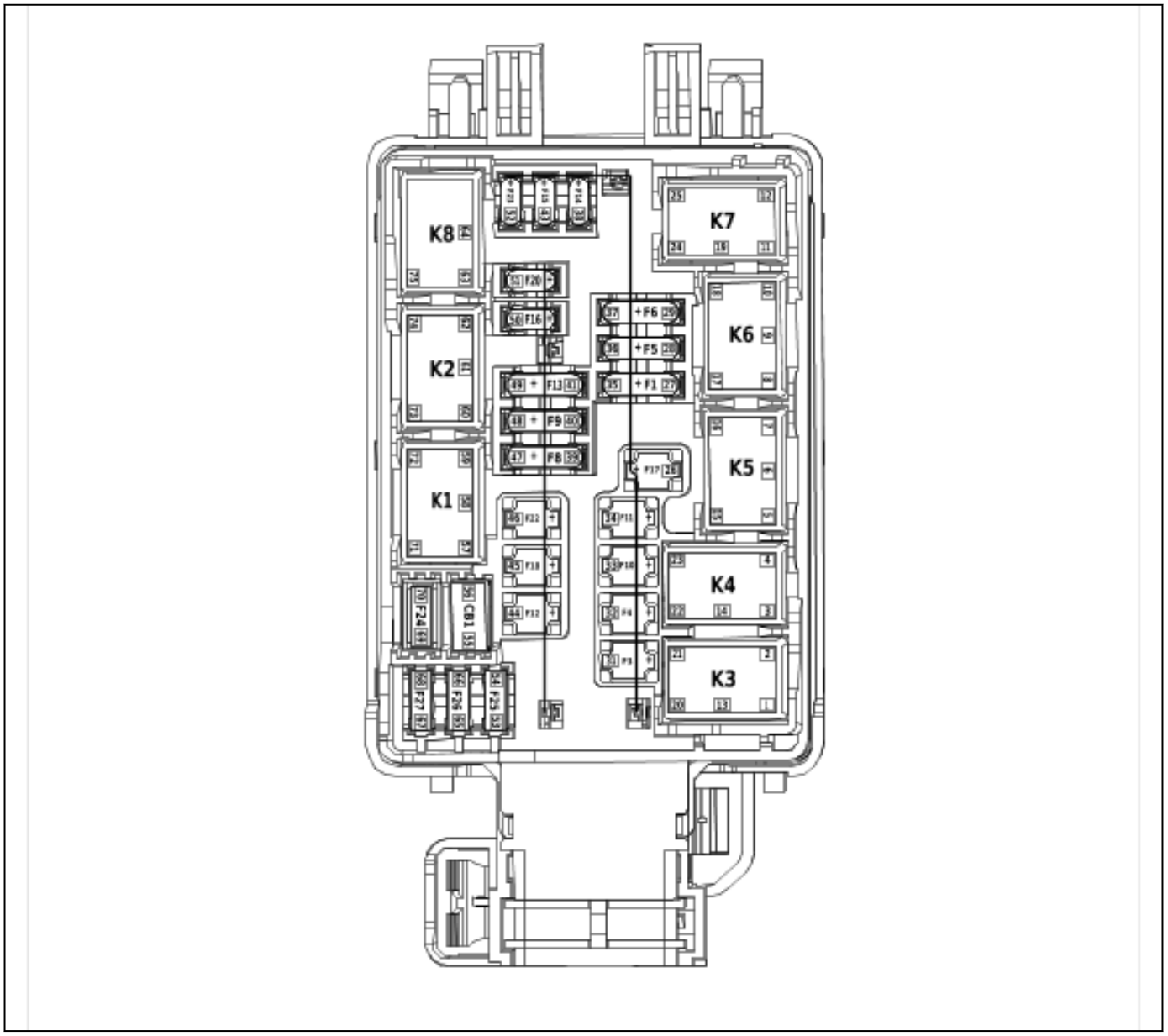
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(35) 35	(35) 0.5	(35) VT / BK	(35) 339	(35) Run/Crank Ignition 1 Voltage	(35) I	(35) —
(36) 36	(36) 10	(36) RD / VT	(36) 542	(36) Battery Positive Voltage	(36) II	(36) —
(37) 37	(37) 0.35	(37) VT / BN	(37) 10723	(37) Upfitter Accessory Relay 3 Coil Supply Voltage	(37) I	(37) —
(38) 38	(38) 0.35	(38) BU / VT	(38) 10721	(38) Upfitter Accessory Relay 1 Coil Supply Voltage	(38) I	(38) —
(39) 39	(39) 2.5	(39) RD / VT	(39) 542	(39) Battery Positive Voltage	(39) I	(39) —
(40) 40	(40) 2.5	(40) RD / VT	(40) 542	(40) Battery Positive Voltage	(40) I	(40) —
(41) 41	(41) 2.5	(41) RD / VT	(41) 542	(41) Battery Positive Voltage	(41) I	(41) —
(42) 42	(42) 2.5	(42) RD / VT	(42) 542	(42) Battery Positive Voltage	(42) I	(42) —
(43) 43	(43) 2.5	(43) RD / VT	(43) 542	(43) Battery Positive Voltage	(43) I	(43) —

X53AF Body Wiring Harness Junction Block Label



6465161

X53AF Body Wiring Harness Junction Block Top View



6094371

X53AF Body Wiring Harness Junction Block

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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	13575574	J-35616-5 (PU)	J-38125-215A
II	13578850	J-35616-5 (PU)	J-38125-215A

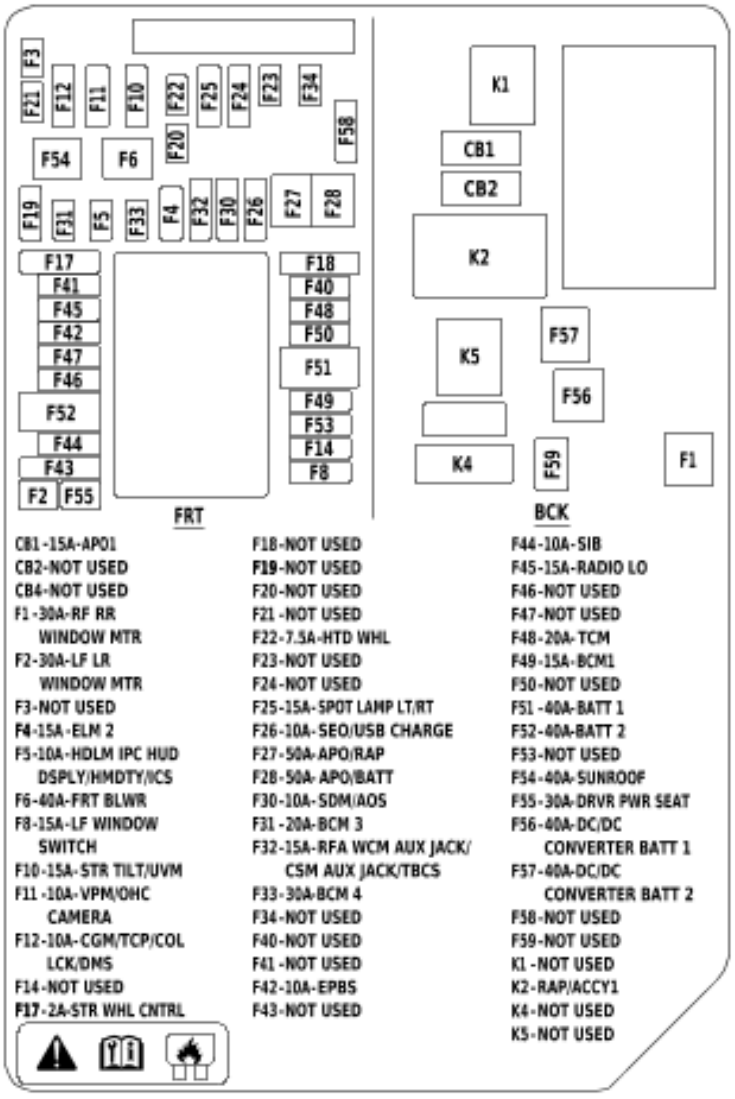
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
III	19332366	J-35616-4A (PU)	J-38125-212
IV	Not required	J-35616-22 (RD)	No Tool Required

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) III	(1) —
(2) 2	(2) 1	(2) GN	(2) 1299	(2) Major Endgate Motor Control	(2) III	(2) —
(5) 5	(5) 1	(5) VT	(5) 7725	(5) Minor Endgate Motor Control	(5) III	(5) —
(7) 7	(7) 0.75	(7) WH / GY	(7) 7297	(7) Minor Endgate High Relay Control	(7) III	(7) —
(8) 8	(8) 1.5	(8) BK	(8) 1550	(8) Ground	(8) III	(8) —
(10) 10	(10) 0.75	(10) BU / VT	(10) 7729	(10) Major Endgate Low Relay Control	(10) III	(10) —
(15) 15	(15) 0.5	(15) BK	(15) 1550	(15) Ground	(15) III	(15) —
(16) 16	(16) 1	(16) RD / BN	(16) 8240	(16) Battery Positive Voltage	(16) III	(16) —
(17) 17	(17) 0.5	(17) BK	(17) 1550	(17) Ground	(17) III	(17) —
(18) 18	(18) 1	(18) YE / BK	(18) 7730	(18) Major Endgate Motor Low Reference	(18) III	(18) —
(20) 20	(20) 1	(20) RD / BN	(20) 8240	(20) Battery Positive Voltage	(20) III	(20) —
(21) 21	(21) 0.5	(21) BK	(21) 1550	(21) Ground	(21) III	(21) —
(26) 26	(26) 1	(26) RD / BN	(26) 8240	(26) Battery Positive Voltage	(26) II	(26) —
(27) 27	(27) 0.75	(27) RD / WH	(27) 5740	(27) Battery Positive Voltage	(27) III	(27) —
(29) 29	(29) 0.75	(29) RD / BN	(29) 6640	(29) Battery Positive Voltage	(29) III	(29) —
(30) 30	(30) 10	(30) RD / GY	(30) 142	(30) Battery Positive Voltage	(30) IV	(30) —
(35) 35	(35) 0.75	(35) RD / BU	(35) 6740	(35) Battery Positive Voltage	(35) III	(35) —
(37) 37	(37) 0.75	(37) RD / GN	(37) 6140	(37) Battery Positive Voltage	(37) III	(37) —
(38) 38	(38) 0.5	(38) RD / YE	(38) 6540	(38) Battery Positive Voltage	(38) III	(38) —
(41) 41	(41) 0.5	(41) RD / VT	(41) 2640	(41) Battery Positive Voltage	(41) III	(41) —
(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) I	(44) —
(46) 46	(46) 2.5	(46) RD / VT	(46) 8640	(46) Battery Positive Voltage	(46) I	(46) —
(48) 48	(48) 0.5	(48) RD / WH	(48) 4740	(48) Battery Positive Voltage	(48) III	(48) —
(49) 49	(49) 0.5	(49) RD / BU	(49) 4540	(49) Battery Positive Voltage	(49) III	(49) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(50) 50	(50) 2.5	(50) RD / YE	(50) 3740	(50) Battery Positive Voltage	(50) III	(50) —
(51) 51	(51) 2.5	(51) RD / VT	(51) 4442	(51) Primary Fused Battery Positive Voltage	(51) III	(51) —
(52) 52	(52) 0.5	(52) RD / BN	(52) 2240	(52) Battery Positive Voltage	(52) III	(52) —
(57) 57	(57) 2.5	(57) RD / VT	(57) 8640	(57) Battery Positive Voltage	(57) III	(57) —
(58) 58	(58) 2.5	(58) BK	(58) 1550	(58) Ground	(58) III	(58) —
(59) 59	(59) 0.5	(59) BK	(59) 1550	(59) Ground	(59) III	(59) —
(60) 60	(60) 2.5	(60) RD / VT	(60) 8640	(60) Battery Positive Voltage	(60) III	(60) —
(61) 61	(61) 2.5	(61) BK	(61) 1550	(61) Ground	(61) III	(61) —
(62) 62	(62) 0.5	(62) BK	(62) 1550	(62) Ground	(62) III	(62) —
(71) 71	(71) 0.5	(71) YE / VT	(71) 6191	(71) Power Rear Window Switch Open Signal	(71) III	(71) —
(72) 72	(72) 2	(72) VT / YE	(72) 7453	(72) Window Motor Rear Auxiliary Open Control	(72) III	(72) —
(73) 73	(73) 0.5	(73) WH	(73) 6192	(73) Sliding Rear Window Switch Close Signal	(73) III	(73) —
(74) 74	(74) 2	(74) YE	(74) 7454	(74) Window Motor Rear Auxiliary Close Control	(74) III	(74) —

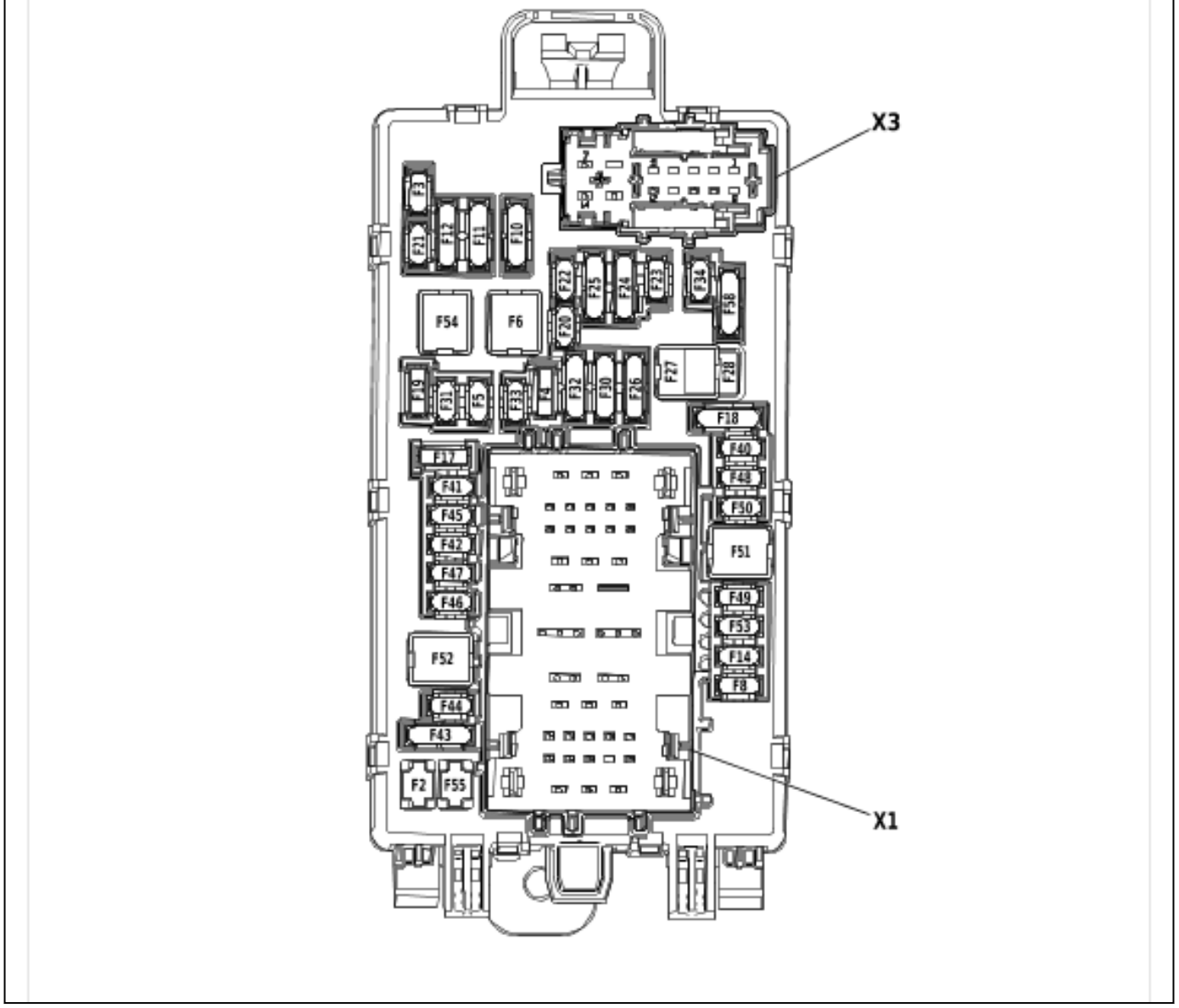
X51R Instrument Panel Wiring Harness Junction Block - Right Label



CB1-15A-APO1
CB2-NOT USED
CB4-NOT USED
F1-30A-RF RR WINDOW MTR
F2-30A-LF LR WINDOW MTR
F3-NOT USED
F4-15A-ELM 2
F5-10A-HDLM IPC HUD DSPLY/HMDTY/ICS
F6-40A-FRT BLWR
F8-15A-LF WINDOW SWITCH
F10-15A-STR TILT/UVM
F11-10A-VPM/OHC CAMERA
F12-10A-CGM/TCP/COL LCK/DMS
F14-NOT USED
F17-2A-STR WHL CNTRL
F18-NOT USED
F19-NOT USED
F20-NOT USED
F21-NOT USED
F22-7.5A-HTD WHL
F23-NOT USED
F24-NOT USED
F25-15A-SPOT LAMP LT/RT
F26-10A-SEO/USB CHARGE
F27-50A-APO/RAP
F28-50A-APO/BATT
F30-10A-SDM/AOS
F31-20A-BCM 3
F32-15A-RFA WCM AUX JACK/CSM AUX JACK/TBCS
F33-30A-BCM 4
F34-NOT USED
F40-NOT USED
F41-NOT USED
F42-10A-EPBS
F43-NOT USED
F44-10A-SIB
F45-15A-RADIO LO
F46-NOT USED
F47-NOT USED
F48-20A-TCM
F49-15A-BCM1
F50-NOT USED
F51-40A-BATT 1
F52-40A-BATT 2
F53-NOT USED
F54-40A-SUNROOF
F55-30A-DRVR PWR SEAT
F56-40A-DC/DC CONVERTER BATT 1
F57-40A-DC/DC CONVERTER BATT 2
F58-NOT USED
F59-NOT USED
K1-NOT USED
K2-RAP/ACCY1
K4-NOT USED
K5-NOT USED

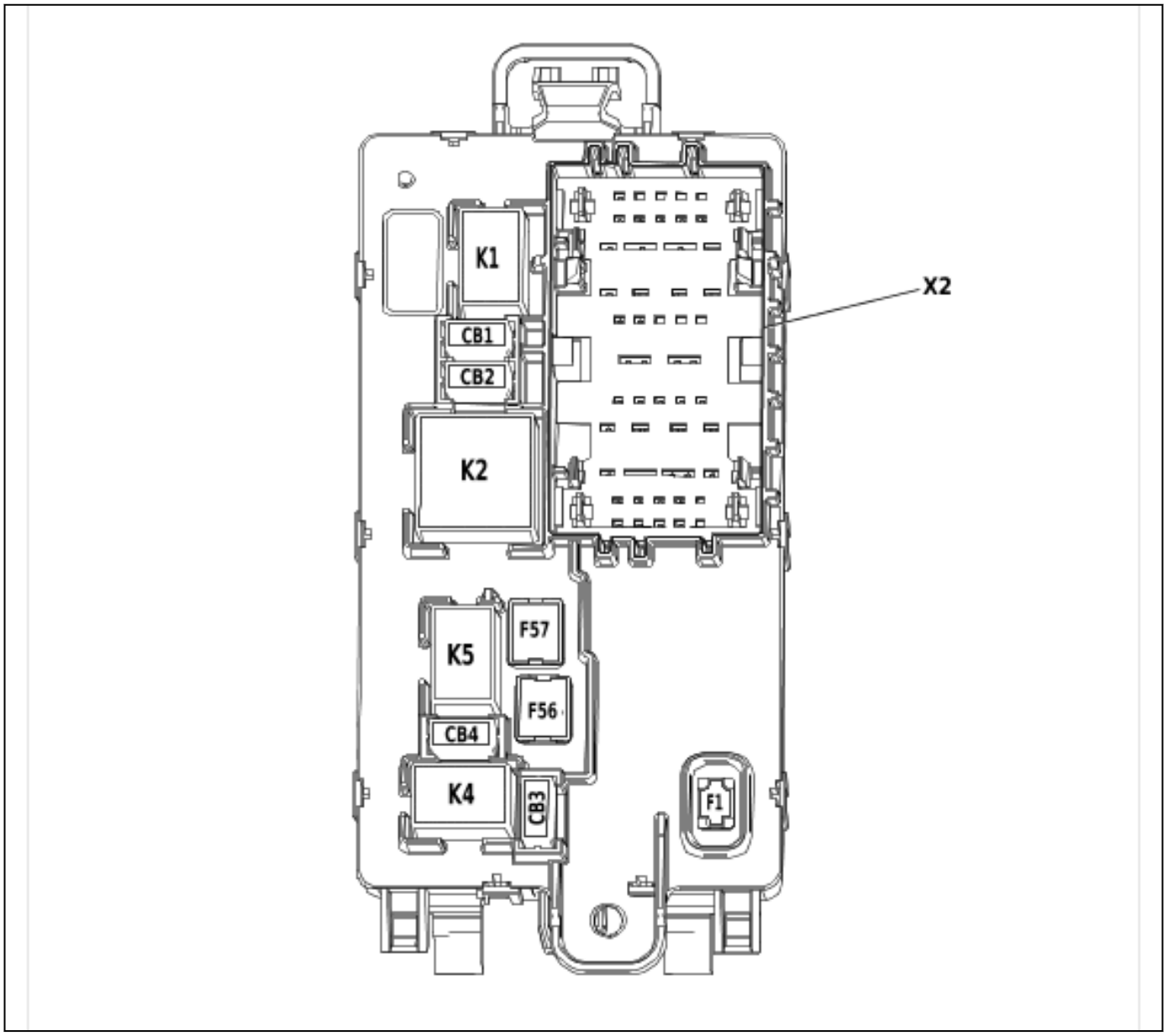
5969420

X51R Instrument Panel Wiring Harness Junction Block - Right Top View



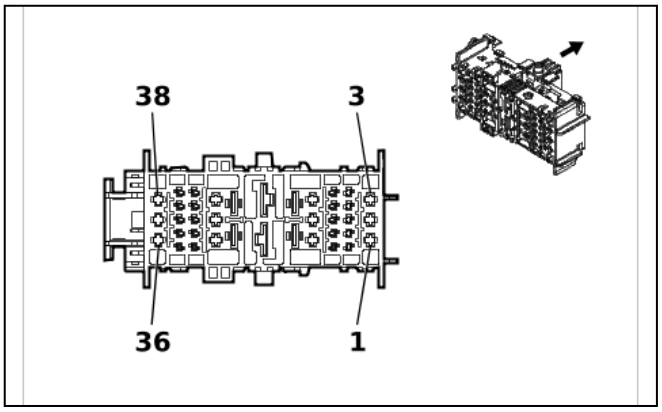
5041376

X51R Instrument Panel Wiring Harness Junction Block - Right Bottom View



6094373

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

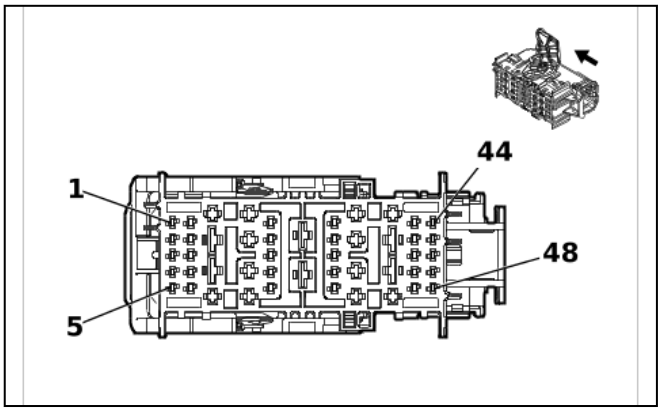
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19332366	J-35616-35 (VT)	J-38125-212
II	19371175	J-35616-2A (GY)	EL-38125-560A
III	84764079	J-35616-44 (YE)	J-38125-11A
IV	Not required	J-35616-44 (YE)	No Tool Required

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 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 5	(19) RD / YE	(19) 1442	(19) Battery Positive Voltage	(19) III	(19) —
(20) 20	(20) 10	(20) RD / WH	(20) 342	(20) Battery Positive Voltage	(20) IV	(20) —
21 - 22	—	—	—	Not Occupied	—	—
(23) 23	(23) 2.5	(23) RD / GY	(23) 4840	(23) Battery Positive Voltage	(23) I	(23) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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 - 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

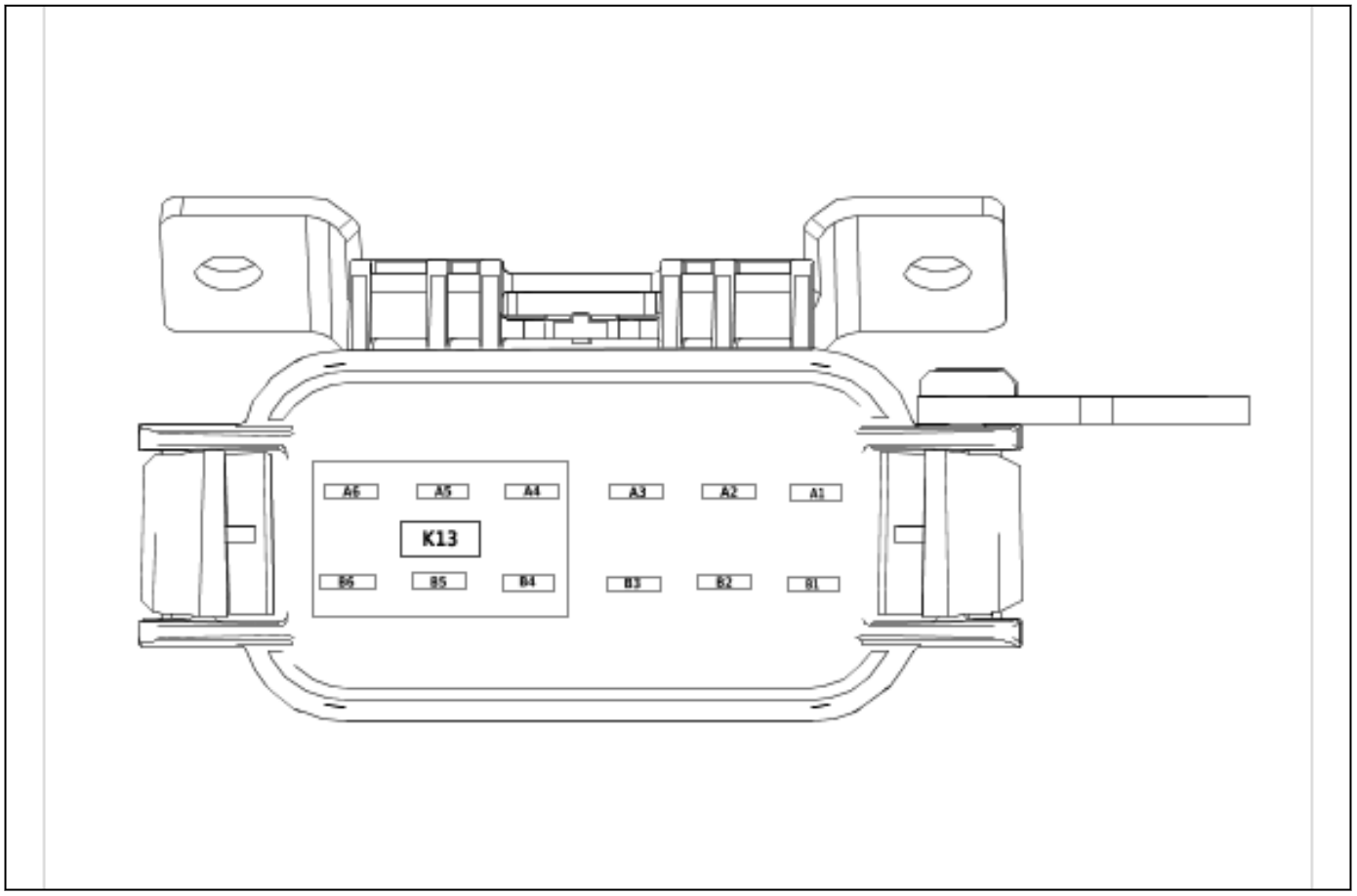
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19369711	J-35616-14 (GN)	EL-38125-560A
II	84764078	J-35616-42 (RD)	J-38125-215A
III	84779405	J-35616-35 (VT)	J-38125-215A

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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
4 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.5	(8) RD / GN	(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 - 13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.5	(14) RD / YE	(14) 3040	(14) Battery Positive Voltage	(14) III	(14) —
(15) 15	(15) 0.5	(15) RD / BN	(15) 10040	(15) Battery Positive Voltage	(15) III	(15) —
(16) 16	(16) 0.75	(16) RD / VT	(16) 4640	(16) Battery Positive Voltage	(16) III	(16) —
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.35	(18) RD / VT	(18) 3340	(18) Battery Positive Voltage	(18) III	(18) —
19 - 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 / VT	(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) 0.35	(41) RD / GN	(41) 5140	(41) Battery Positive Voltage	(41) I	(41) —
(42) 42	(42) 0.35	(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	—	—

X54 Accessory Wiring Junction Block - Snow Plow Top View (VYU)



6471250

X54 Accessory Wiring Junction Block - Snow Plow

—

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	85533337	J-35616-4A (PU)	J-38125-11A

X54 Accessory Wiring Junction Block - Snow Plow

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A4	0.5	BN	25	Charge Indicator Control	I	—
A6	0.75	GY / VT	9026	Snow Plow Relay Supply	I	—
B4	1	OG	9026	Snow Plow Relay Supply	I	—
B5	0.5	BN	25	Charge Indicator Control	I	—

X55SP Wiring Harness Fuse Holder - Snow Plow

—

Connector Part Information
- Harness Type: Accessory Wiring Harness
- OEM Connector: 13788151
- Service Connector: Service by Component Assembly - See Part Catalog
- Description: Wire Entry Fuse Block

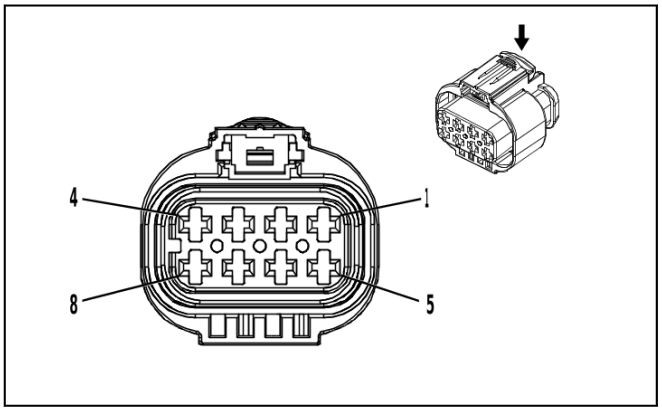
Terminal Part Information

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

X55SP Wiring Harness Fuse Holder - Snow Plow

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	OG	9026	Snow Plow Relay Supply	I	—
B	0	BARE	9028	Snow Plow Relay Supply	I	—

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)

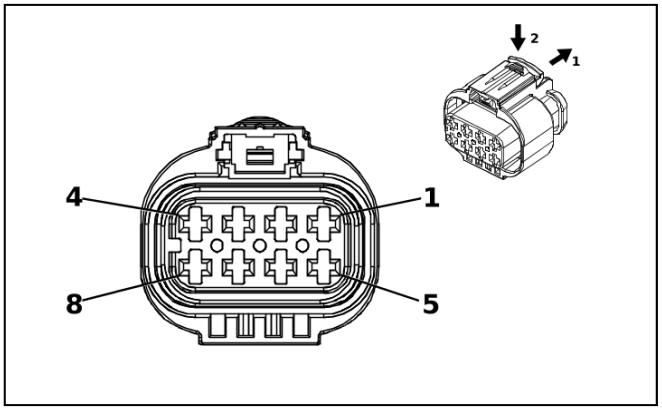
Terminal Part Information

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) 0.75 (5) 0.5	(5) BU / GN (5) BU / GN	(5) 1936 (5) 1936	(5) Primary Fuel Level Sensor Signal (5) Primary Fuel Level Sensor Signal	(5) II (5) II	(5) L5P (5) L8T
(6) 6	(6) 0.5	(6) BK / GN	(6) 6281	(6) Fuel Level Sensor Low Reference	(6) II	(6) —
7 - 8	—	—	—	Not Occupied	—	—

A7AX Fuel Tank Fuel Pump Module - Auxiliary (L5P)



3749581

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 2109441-4
- Service Connector: 19355165
- Description: 8-Way F 2.8 Series, Sealed(BK)

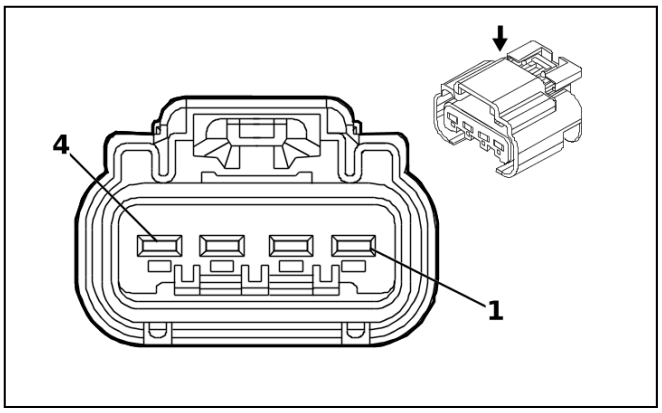
Terminal Part Information

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

A7AX Fuel Tank Fuel Pump Module - Auxiliary (L5P)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) BU / WH	(5) 1937	(5) Secondary Fuel Level Sensor Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) BK / BU	(6) 6282	(6) Fuel Level Sensor 2 Low Reference	(6) I	(6) —
7 - 8	—	—	—	Not Occupied	—	—

A7AX Fuel Tank Fuel Pump Module - Auxiliary (L8T)



5199377

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 13843236
- Service Connector: 84769204
- Description: 4-Way F 280 GT Series, Sealed(NA)

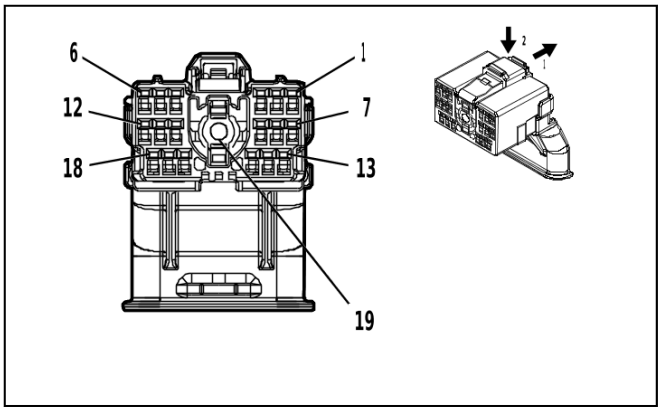
Terminal Part Information

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

A7AX Fuel Tank Fuel Pump Module - Auxiliary (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BU / GN	(1) 2120	(1) Secondary Fuel Pump Control	(1) I	(1) —
(2) 2	(2) 1	(2) BK / GN	(2) 1580	(2) Fuel Pump Low Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / WH	(3) 1937	(3) Secondary Fuel Level Sensor Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / BU	(4) 6282	(4) Fuel Level Sensor 2 Low Reference	(4) I	(4) —

A9A Outside Rearview Mirror - Driver X1



4991775

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Left
- 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

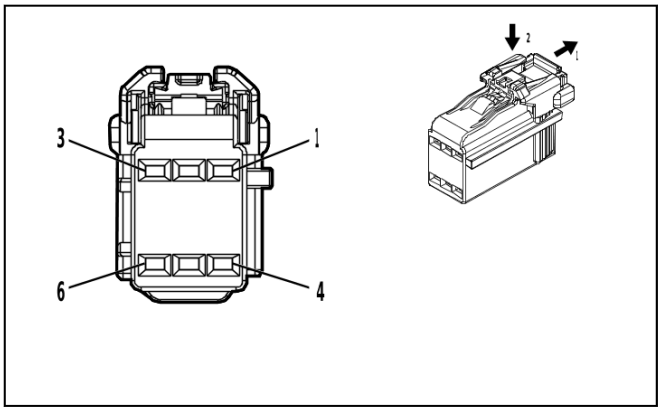
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required
III	Service by Cable	No Tool Required	No Tool Required

A9A Outside Rearview Mirror - Driver X1

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) II	(1) —
(2) 2	(2) 0.5	(2) VT / BU	(2) 2788	(2) Left Front Mirror Motor Up [+] Down [-] Control	(2) II	(2) —
(3) 3	(3) 0.5	(3) WH / GN	(3) 2786	(3) Left Front Mirror Motor Fold In Control	(3) II	(3) —
(4) 4	(4) 0.5	(4) GY / YE	(4) 1760	(4) Left Side Object Detection LED Control	(4) II	(4) —
(5) 5	(5) 0.5	(5) WH / GN	(5) 5966	(5) Approach Lamp Control	(5) II	(5) —
(6) 6	(6) 0.5	(6) BN / GN	(6) 4246	(6) Identification Lamp Control	(6) II	(6) —
(7) 7	(7) 0.5	(7) WH	(7) 606	(7) Left Outside Rearview Mirror Heater Control	(7) II	(7) —
(8) 8	(8) 0.5	(8) WH / GY	(8) 2114	(8) Left Turn Signal Lamp Control 2	(8) II	(8) —
(9) 9	(9) 0.5	(9) BK	(9) 1550	(9) Ground	(9) II	(9) —
10	—	—	—	Not Occupied	—	—
(11) 11	(11) 0.35	(11) YE / GY	(11) 2933	(11) Task Lamp Control Left	(11) I	(11) —
(12) 12	(12) 0.5	(12) BK / YE	(12) 1691	(12) Automatic Day/Night Mirror Low Reference	(12) II	(12) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(13) 13	(13) 0.5	(13) BU / YE	(13) 7761	(13) Backup Illumination Lamp Control	(13) II	(13) —
(14) 14	(14) 0.5	(14) YE / BN	(14) 2789	(14) Left Front Mirror Motor Common Control	(14) II	(14) —
(15) 15	(15) 0.5	(15) GY / WH	(15) 2785	(15) Left Front Mirror Motor Fold Out Control	(15) II	(15) —
16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.5	(17) YE / WH	(17) 1690	(17) Mirror Dimming Signal	(17) II	(17) —
18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0	(19) Coax Cable	(19) 4725	(19) Left Sideview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(19) III	(19) —

A9A Outside Rearview Mirror - Driver X2



4862126

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Left
- OEM Connector: 6098-8996
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.2 Series(BK)

Terminal Part Information

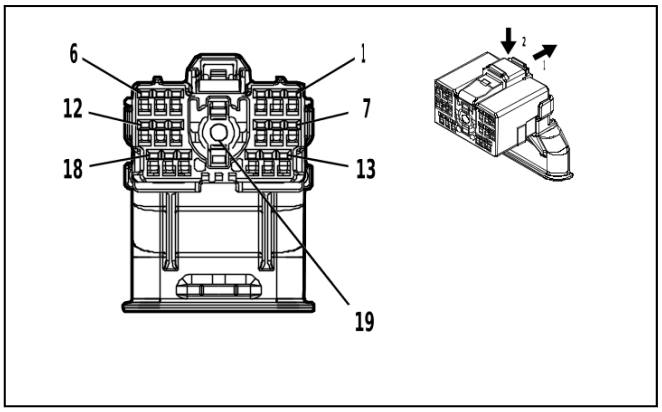
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

A9A Outside Rearview Mirror - Driver X2

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) VT / RD	(2) 2791	(2) Left Front Mirror Position Sensor High Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) GY / BN	(3) 2787	(3) Left Front Mirror Position Sensor Up [+] Down [-] Signal	(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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(5) 5	(5) 0.5	(5) BN	(5) 10201	(5) Left Front Mirror Motor Extend Control	(5) I	(5) —
(6) 6	(6) 0.5	(6) WH / BK	(6) 10202	(6) Left Front Mirror Motor Retract Control	(6) I	(6) —

A9B Outside Rearview Mirror - Passenger X1



4991775

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Right
- 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

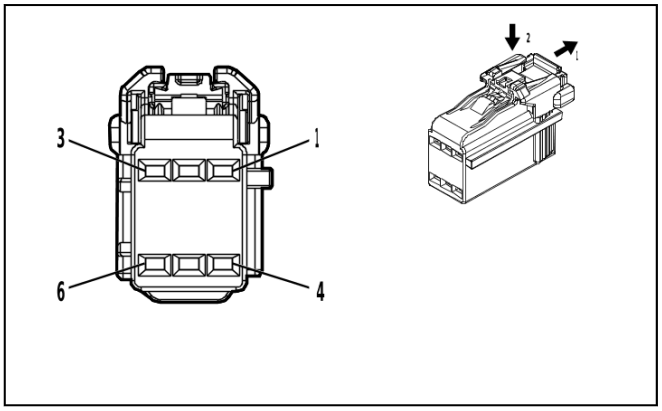
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required
III	Service by Cable	No Tool Required	No Tool Required

A9B Outside Rearview Mirror - Passenger X1

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) II	(1) —
(2) 2	(2) 0.5	(2) YE / VT	(2) 2796	(2) Right Front Mirror Motor Up [+] Down [-] Control	(2) II	(2) —
(3) 3	(3) 0.5	(3) BU / GY	(3) 2794	(3) Right Front Mirror Motor Fold In Control	(3) II	(3) —
(4) 4	(4) 0.5	(4) GY	(4) 1761	(4) Right Side Object Detection LED Control	(4) II	(4) —
(5) 5	(5) 0.5	(5) WH / GN	(5) 5966	(5) Approach Lamp Control	(5) II	(5) —
(6) 6	(6) 0.5	(6) BN / GN	(6) 4246	(6) Identification Lamp Control	(6) II	(6) —
(7) 7	(7) 0.5	(7) BN / VT	(7) 607	(7) Right Outside Rearview Mirror Heater Control	(7) II	(7) —
(8) 8	(8) 0.5	(8) GN / GY	(8) 2115	(8) Right Turn Signal Lamp Control 2	(8) II	(8) —
(9) 9	(9) 0.75	(9) BK	(9) 1350	(9) Ground	(9) II	(9) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(10) 10	(10) 0.5	(10) BU / GY	(10) 636	(10) Ambient Air Temperature Sensor Signal	(10) II	(10) —
(11) 11	(11) 0.35	(11) YE / WH	(11) 2934	(11) Task Lamp Control Right	(11) I	(11) —
(12) 12	(12) 0.5	(12) BK / YE	(12) 1691	(12) Automatic Day/Night Mirror Low Reference	(12) II	(12) —
(13) 13	(13) 0.5	(13) BU / YE	(13) 7761	(13) Backup Illumination Lamp Control	(13) II	(13) —
(14) 14	(14) 0.5	(14) WH	(14) 2797	(14) Right Front Mirror Motor Common Control	(14) II	(14) —
(15) 15	(15) 0.5	(15) YE / WH	(15) 2793	(15) Right Front Mirror Motor Fold Out Control	(15) II	(15) —
16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.5	(17) YE / WH	(17) 1690	(17) Mirror Dimming Signal	(17) II	(17) —
(18) 18	(18) 0.5	(18) BK / GY	(18) 626	(18) Engine Control Vehicle Sensors Low Reference 1	(18) II	(18) —
(19) 19	(19) 0	(19) Coax Cable	(19) 4724	(19) Right Sideview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(19) III	(19) —

A9B Outside Rearview Mirror - Passenger X2



4862126

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Right
- OEM Connector: 6098-8996
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.2 Series(BK)

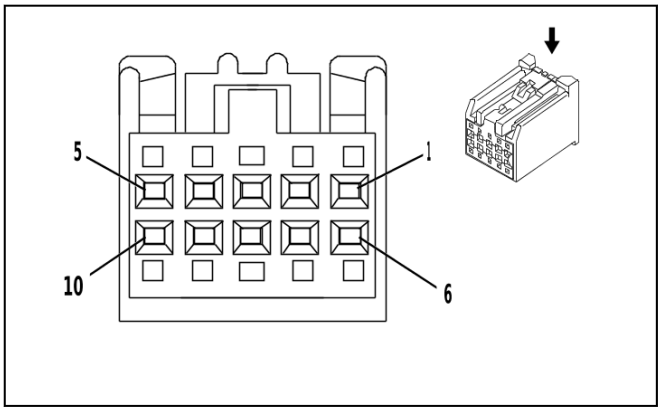
Terminal Part Information

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

A9B Outside Rearview Mirror - Passenger X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / WH	(1) 2800	(1) Right Front Mirror Position Sensor Left [-] Right [+] Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) YE / RD	(2) 2799	(2) Right Front Mirror Position Sensor High Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) BU / YE	(3) 2795	(3) Right Front Mirror Position Sensor Up [+] Down [-] Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / GN	(4) 675	(4) Right Outside Rearview Mirror Position Sensor Low Reference	(4) I	(4) —
(5) 5	(5) 0.5	(5) BN / GN	(5) 10203	(5) Right Front Mirror Motor Extend Control	(5) I	(5) —
(6) 6	(6) 0.5	(6) VT	(6) 10204	(6) Right Front Mirror Motor Retract Control	(6) I	(6) —

A10 Inside Rearview Mirror X1



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

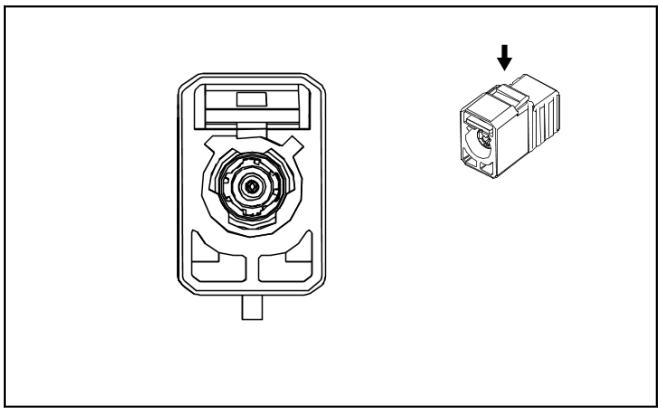
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575742	J-35616-64B (L-BU)	J-38125-215A

A10 Inside Rearview Mirror X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GN / WH	(1) 24	(1) Backup Lamp Control	(1) I	(1) —
(2) 2	(2) 0.35 (2) 0.5	(2) VT / BK (2) VT / BK	(2) 339 (2) 339	(2) Run/Crank Ignition 1 Voltage (2) Run/Crank Ignition 1 Voltage	(2) I (2) I	(2) UEU - UV6 (2) UVO
3 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) BK / WH	(5) 851	(5) Signal Ground	(5) I	(5) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(6) 6	(6) 0.35	(6) GY / YE	(6) 6972	(6) Rearview Camera Signal [+]	(6) I	(6) —
(7) 7	(7) 0.35	(7) WH / BU	(7) 6973	(7) Rearview Camera Signal [-]	(7) I	(7) —
(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)

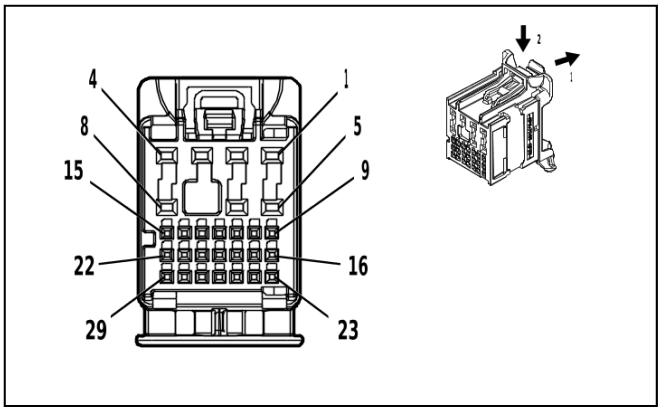
Terminal Part Information

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

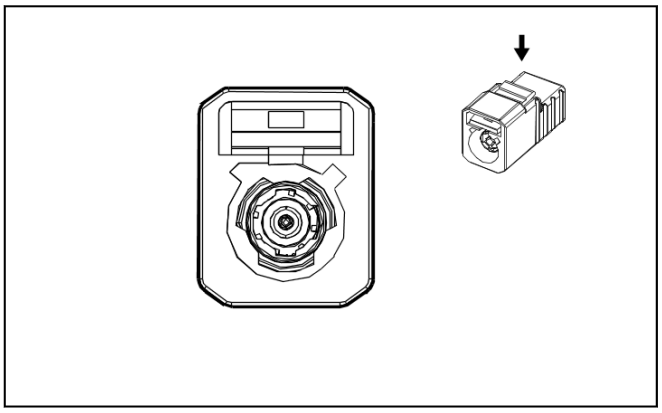
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

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) 0.35	(11) GN / WH	(11) 24	(11) Backup Lamp Control	(11) I	(11) —
12 - 14	—	—	—	Not Occupied	—	—
(15) 15	(15) 0.35	(15) BU / GY	(15) 11244	(15) Radio Switch Dimming Control	(15) I	(15) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.35	(17) BU / WH	(17) 4985	(17) AUTOSAR CAN Bus [+] 5 Serial Data	(17) I	(17) —
(18) 18	(18) 0.35	(18) BU / YE	(18) 4984	(18) AUTOSAR CAN Bus [-] 5 Serial Data	(18) I	(18) —
19 - 20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.35	(21) GY / VT	(21) 11249	(21) Infotainment Display Backlight Enable Control	(21) I	(21) —
(22) 22	(22) 0.35	(22) BU / GN	(22) 11248	(22) Infotainment Display Backlight Dimming Control	(22) I	(22) —
23	—	—	—	Not Occupied	—	—
(24) 24	(24) 0.35	(24) BN / WH	(24) 11233	(24) Radio Switch Power ON/OFF Switch Signal	(24) I	(24) —
(25) 25	(25) 0.35	(25) VT / WH	(25) 11245	(25) Radio Switch Buttons Signal	(25) I	(25) —
(26) 26	(26) 0.35	(26) BU	(26) 11235	(26) Radio Switch Volume Up Signal	(26) I	(26) —
(27) 27	(27) 0.35	(27) GY / BN	(27) 11234	(27) Radio Switch Volume Down Signal	(27) I	(27) —
28 - 29	—	—	—	Not Occupied	—	—

A11 Radio X1 (IOK)



5331855

Connector Part Information

- Harness Type: Radio Antenna Cable Extension Cable COAX
- OEM Connector: 13581682
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BK)

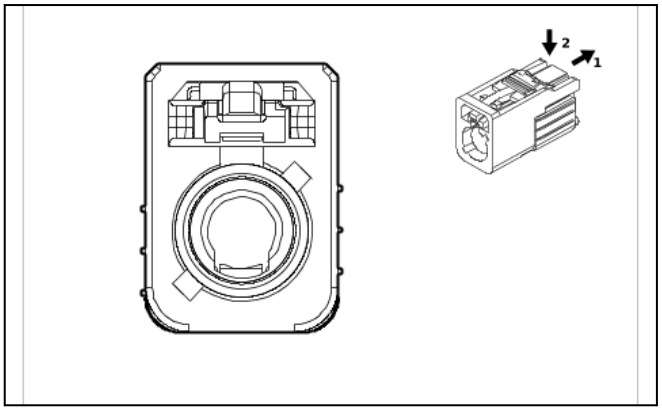
Terminal Part Information

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

A11 Radio X1 (IOK)

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

A11 Radio X2 (IOK)



5793980

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33340311
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BU)

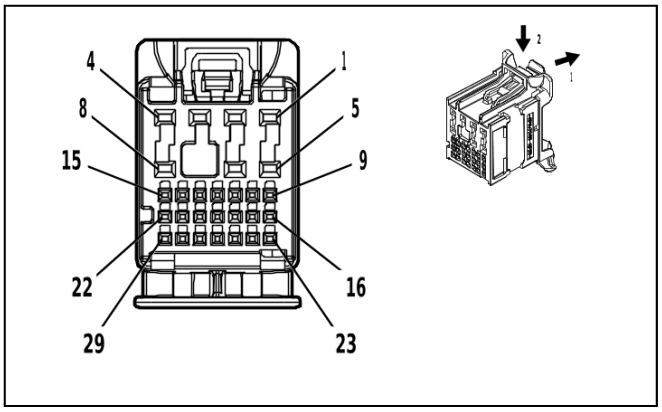
Terminal Part Information

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

A11 Radio X2 (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	(GPS only) Coaxial Antenna GPS Signal	I	—

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(GY)

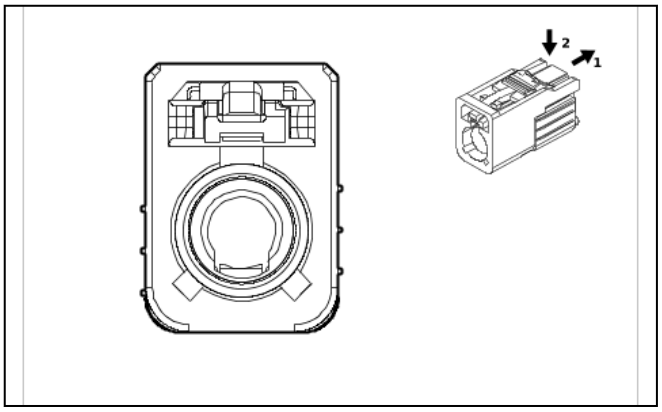
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	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) 0.35	(9) BK / BN (9) BK / GY	(9) 654 (9) 5152	(9) Cellular Telephone Microphone Low Reference (9) Voice Recognition Audio [-] Control	(9) I (9) I	(9) - GFF+ IOR-UE1 (9) IOR+ UE1
(10) 10	(10) 0.35 (10) 0.35	(10) BU (10) GY / YE	(10) 655 (10) 5149	(10) Cellular Telephone Microphone Signal (10) Voice Recognition Audio Signal	(10) I (10) I	(10) - GFF+ IOR-UE1 (10) IOR+ UE1
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)

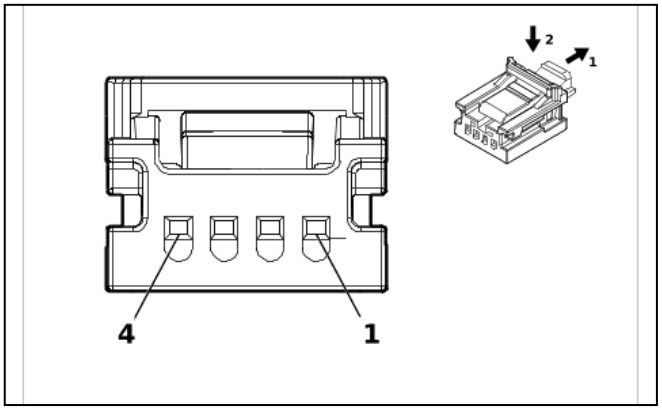
Terminal Part Information

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)

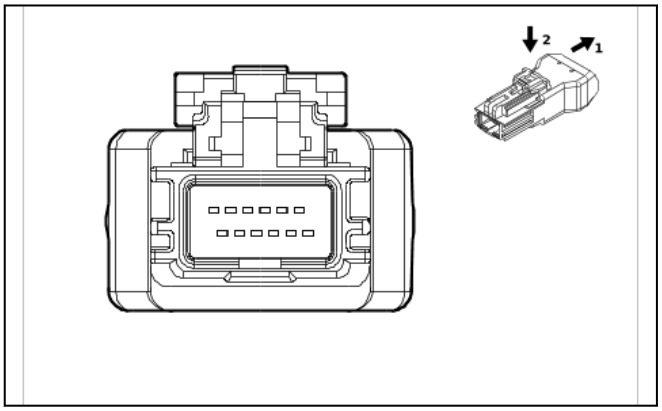
Terminal Part Information

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

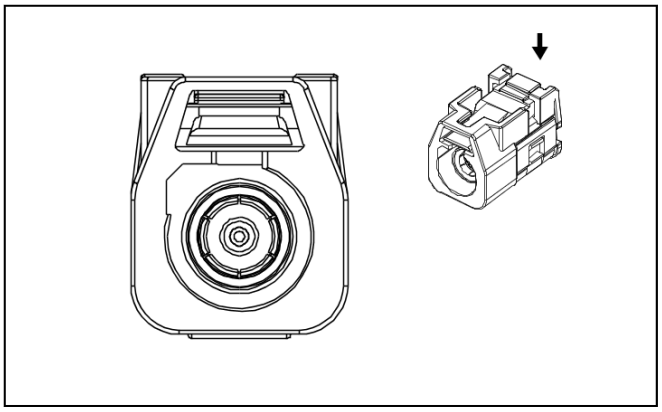
Terminal Part Information

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
—	—	USB	—	USB Serial Data	I	—

A11 Radio X4 (U2Q)



3530699

Connector Part Information
- Harness Type: Radio Antenna Cable Extension Cable COAX
- OEM Connector: 13581978
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(GN)

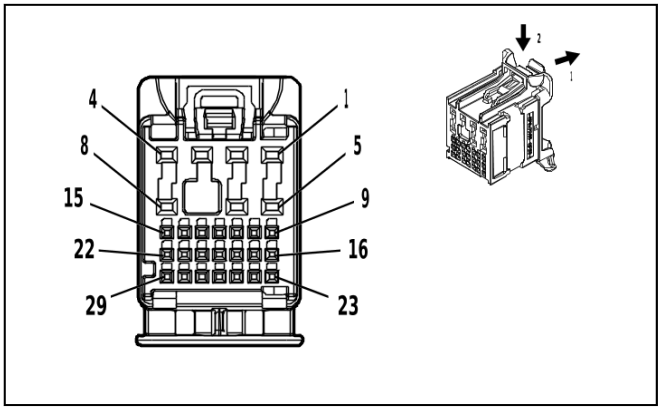
Terminal Part Information

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

A11 Radio X4 (U2Q)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	(DAB/DMB) Coaxial Antenna DAB Signal	I	—

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)

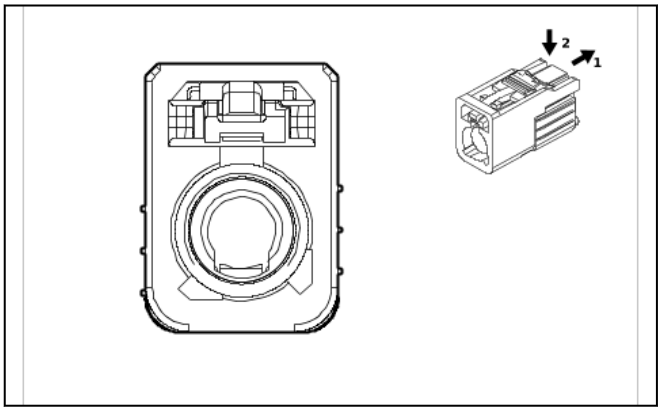
Terminal Part Information

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) 0.35	(9) BU (9) GY / YE	(9) 655 (9) 5149	(9) Cellular Telephone Microphone Signal (9) Voice Recognition Audio Signal	(9) I (9) I	(9) - GFF+ IOR-UE1 (9) IOK+ UE1
(10) 10	(10) 0.35 (10) 0.35	(10) BK / BN (10) BK / GY	(10) 654 (10) 5152	(10) Cellular Telephone Microphone Low Reference (10) Voice Recognition Audio [-] Control	(10) I (10) I	(10) - GFF+ IOR-UE1 (10) IOK+ UE1
(11) 11	(11) 0.35	(11) VT / YE	(11) 7043	(11) Microphone [+] Signal	(11) I	(11) —
(12) 12	(12) 0.35	(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)

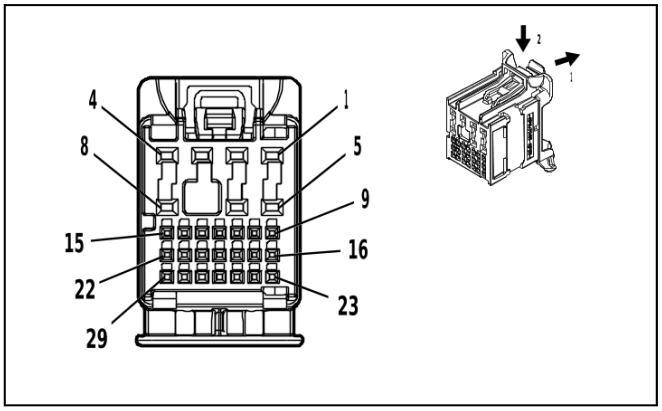
Terminal Part Information

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(GY)

Terminal Part Information

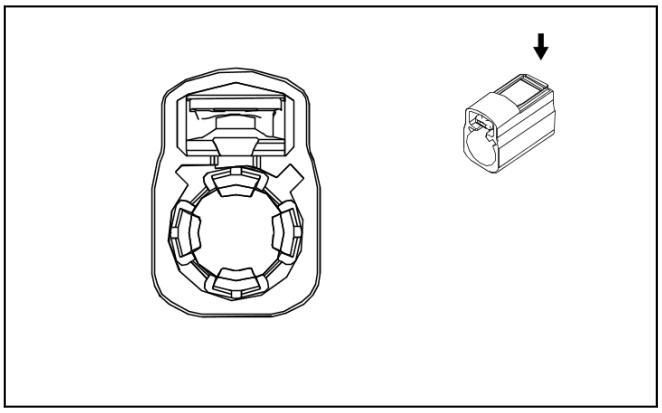
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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)

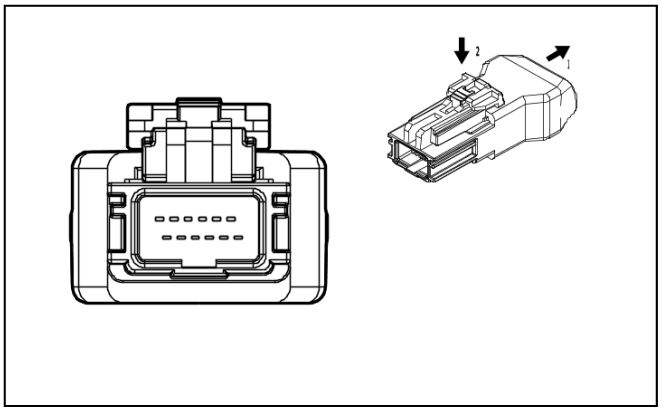
Terminal Part Information

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)

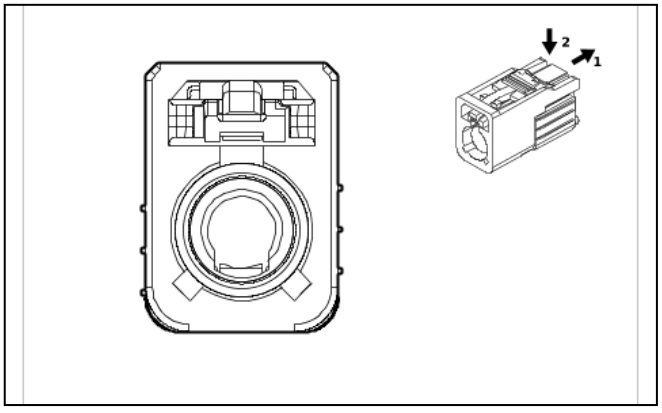
Terminal Part Information

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
—	—	LVDS	—	(Infotainment) Infotainment Display Signal	I	—

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)

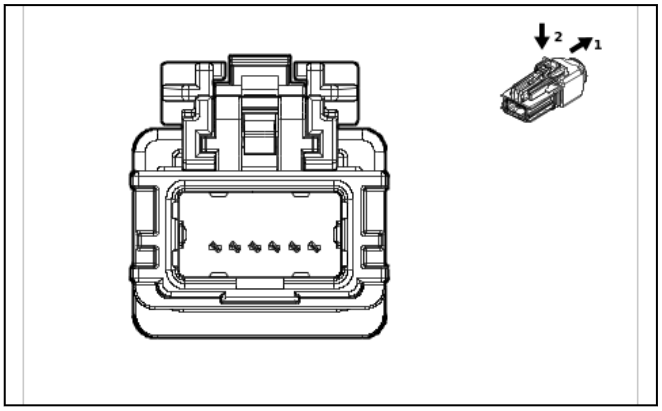
Terminal Part Information

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)

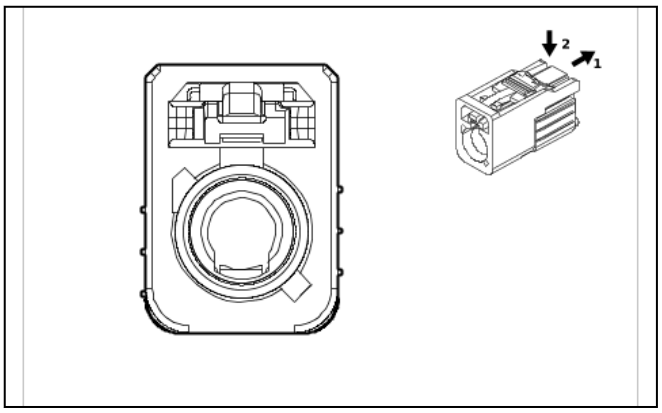
Terminal Part Information

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)

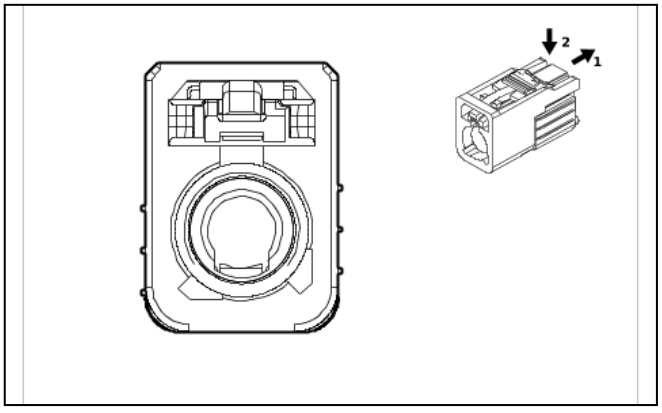
Terminal Part Information

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)

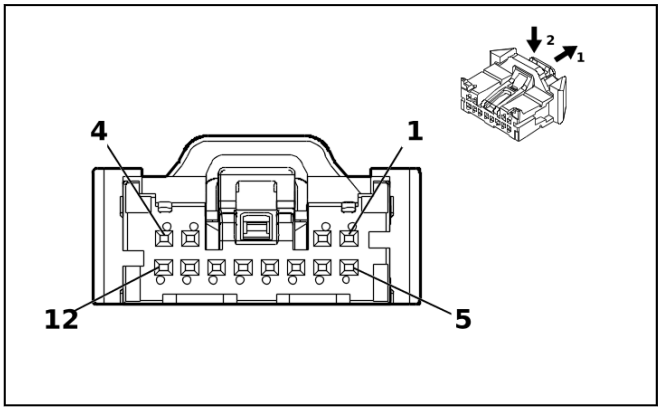
Terminal Part Information

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 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)

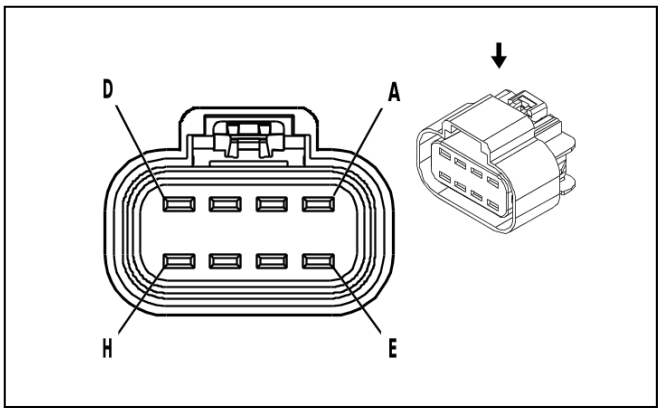
Terminal Part Information

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) 0.35	(11) BN	(11) 7211	(11) Ethernet Bus 4 [+]	(11) I	(11) —
(12) 12	(12) 0.35	(12) GY	(12) 7210	(12) Ethernet Bus 4 [-]	(12) I	(12) —

A16 Transfer Case Four Wheel Drive Actuator (NQF)



646372

Connector Part Information

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

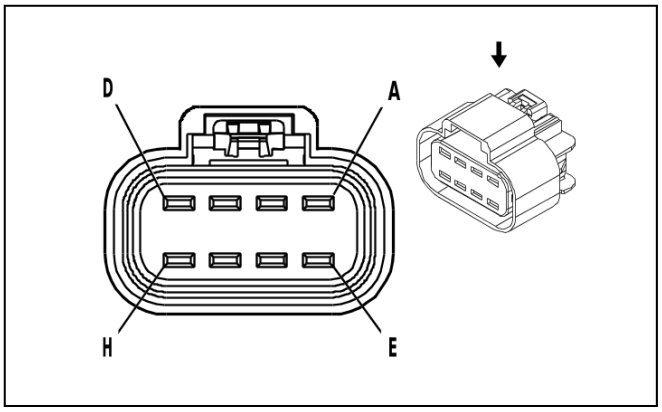
Terminal Part Information

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 (NQF)

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	—

A16 Transfer Case Four Wheel Drive Actuator (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)

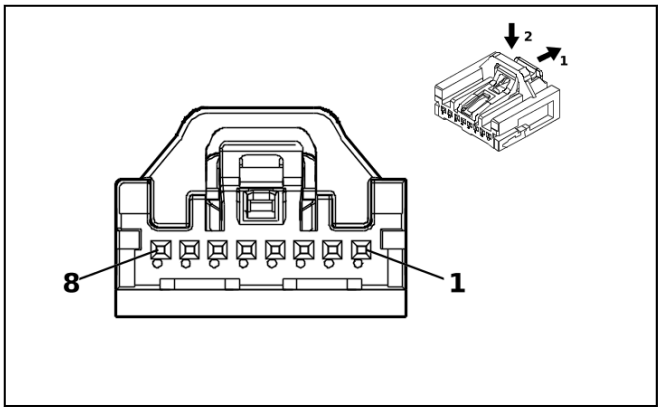
Terminal Part Information

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 (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 (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)

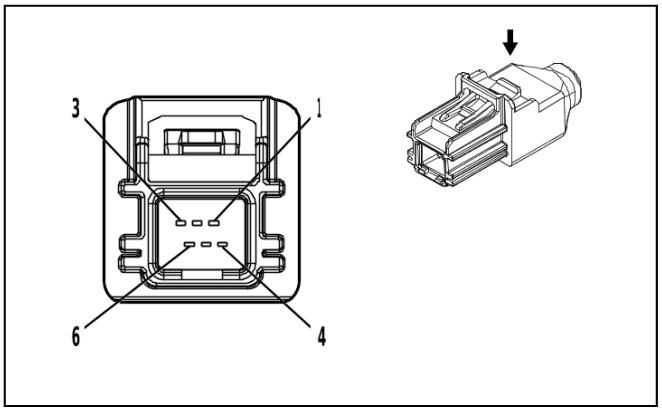
Terminal Part Information

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

A22 Radio Control 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) —

A22 Radio Control 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)

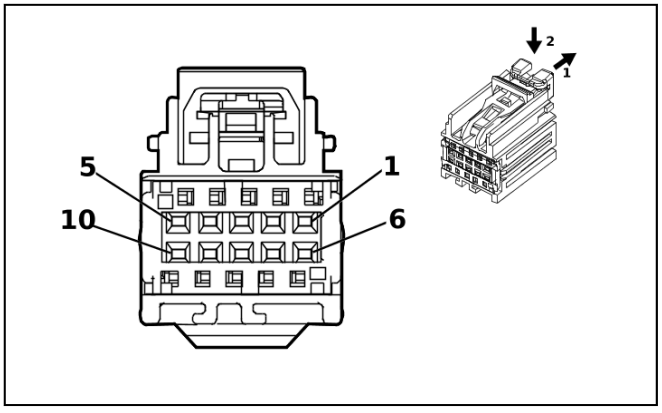
Terminal Part Information

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

A22 Radio Control X2 (IOK)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	(Infotainment) Infotainment Display Signal	I	—

A23D Front Side Door Latch - Driver



4622549

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

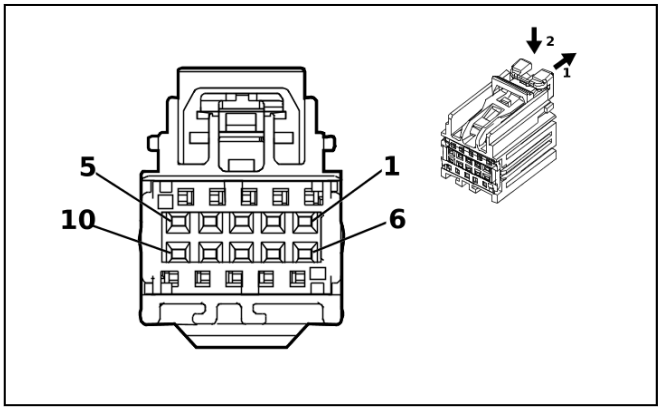
Terminal Part Information

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
- 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

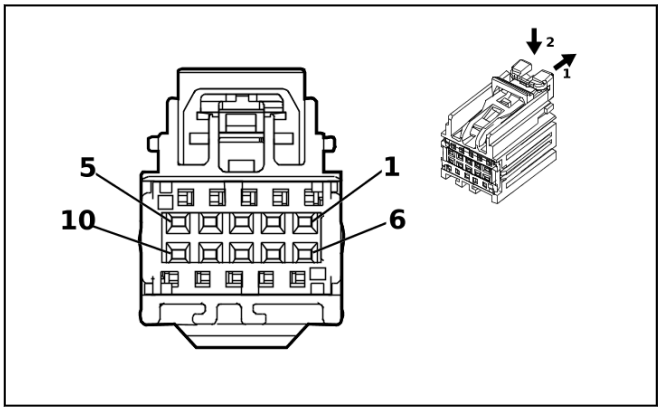
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

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	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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 Side Door Door Wiring Harness - Right
- OEM Connector: 7289-5068-60
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 0.64 Kaizen Series(GN)

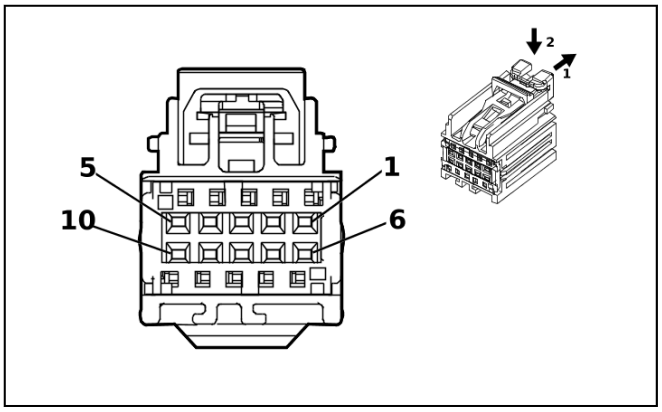
Terminal Part Information

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
- OEM Connector: 7289-5068-60
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 0.64 Kaizen Series(GN)

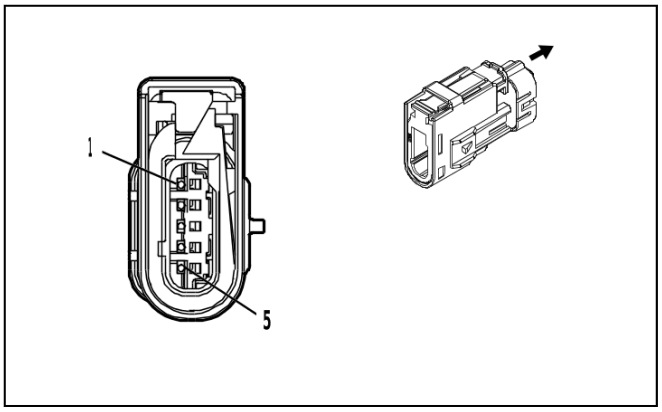
Terminal Part Information

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 - Left
- OEM Connector: SRVWSB-04A-BS
- Service Connector: Service by Harness - See Part Catalog
- Description: 5-Way M 1.2 Series, Sealed(NA)

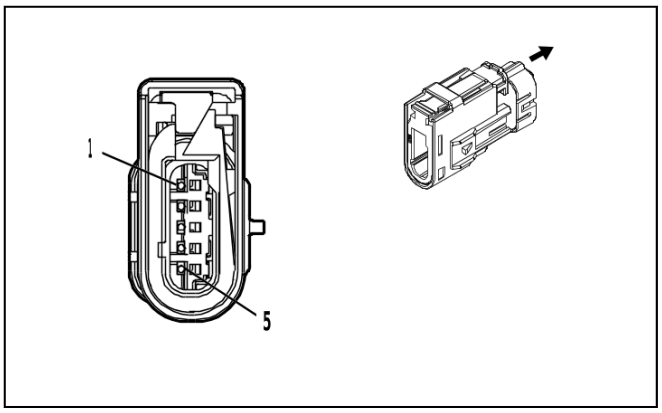
Terminal Part Information

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 - Right
- OEM Connector: SRVWSB-04A-BS
- Service Connector: Service by Harness - See Part Catalog
- Description: 5-Way M 1.2 Series, Sealed(NA)

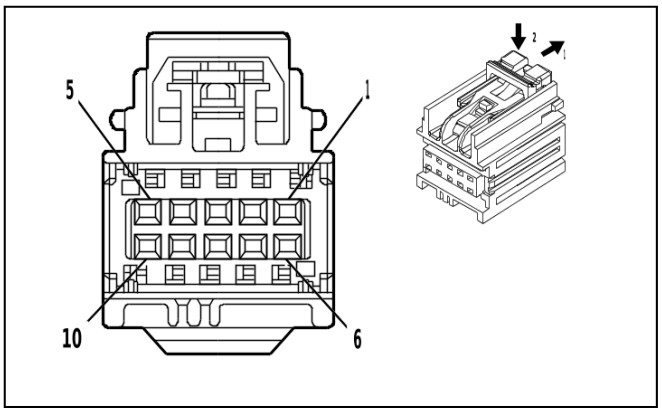
Terminal Part Information

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)

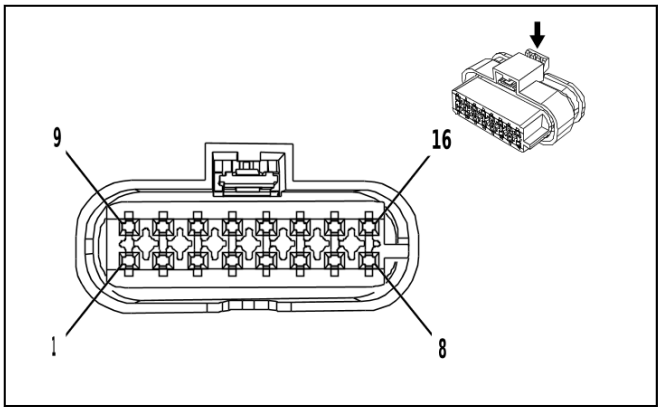
Terminal Part Information

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 / YE	(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 (L5P)



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

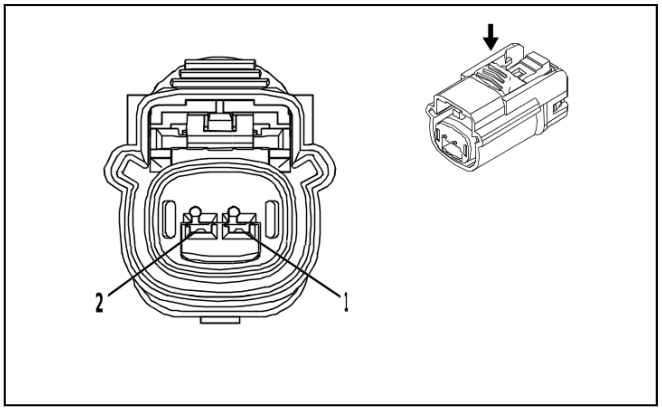
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required

A38 Reductant Tank Fluid Supply Pump Module (L5P)

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) 6	(6) 1	(6) BU	(6) 4318	(6) Diesel Exhaust Fluid Tank Heater Low Control	(6) I	(6) —
(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 - 11	—	—	—	Not Occupied	—	—
(12) 12	(12) 1	(12) BN	(12) 3676	(12) Diesel Exhaust Fluid Heating Tank 2 Heater Control	(12) I	(12) —
13	—	—	—	Not Occupied	—	—
(14) 14	(14) 1	(14) BK	(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) YE	(15) 3876	(15) Diesel Exhaust Fluid Smart Pump Supply Voltage Phase 3	(15) I	(15) —
(16) 16	(16) 1	(16) BN	(16) 2936	(16) Diesel Exhaust Fluid Heating Tank 2 Heater Control Low	(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)

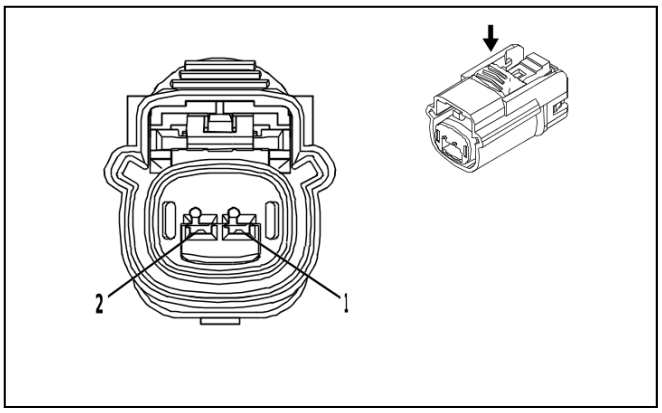
Terminal Part Information

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)

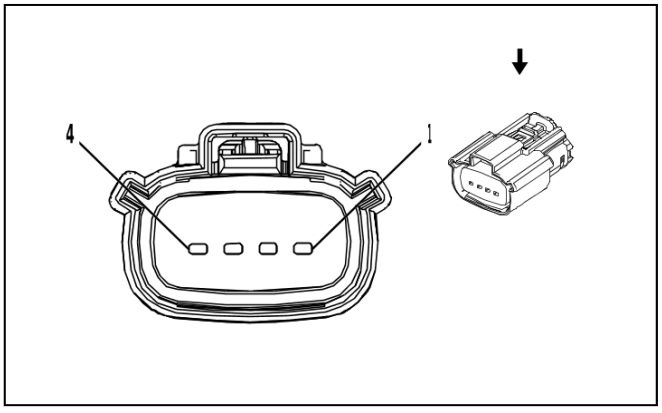
Terminal Part Information

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)

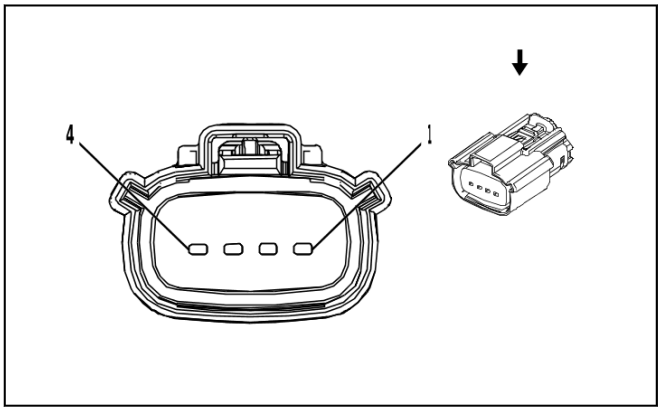
Terminal Part Information

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)

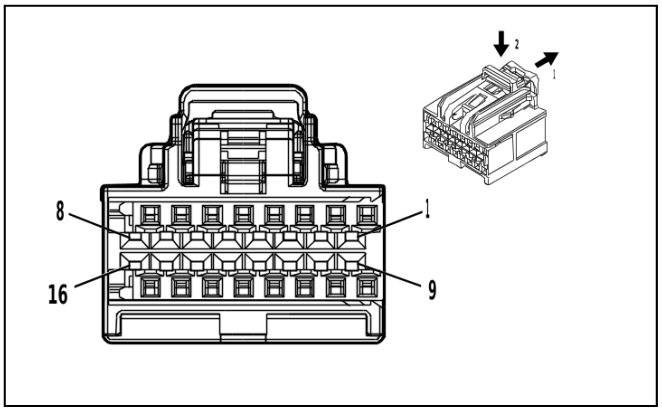
Terminal Part Information

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)

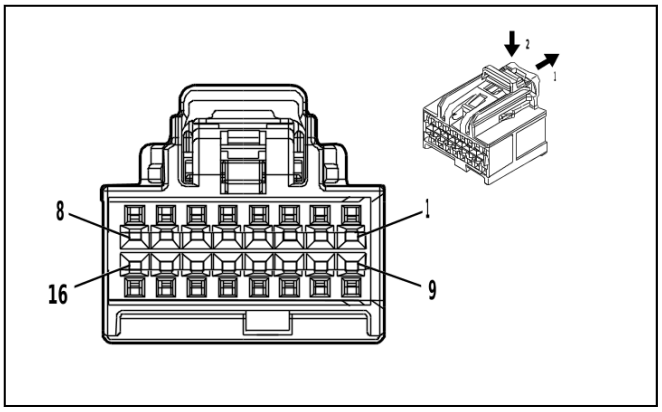
Terminal Part Information

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) 0.35	(11) BU / GN	(11) 4785	(11) Interior Lamp Overhead Enable Signal	(11) I	(11) —
(12) 12	(12) 0.35	(12) GY / WH	(12) 2369	(12) Interior Lamp Overhead 2 Enable Signal	(12) I	(12) —
(13) 13	(13) 0.35	(13) GN / YE	(13) 2903	(13) Row 2 Dome Reading Lamp Interior Lamp Control	(13) I	(13) —
(14) 14	(14) 0.35	(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)

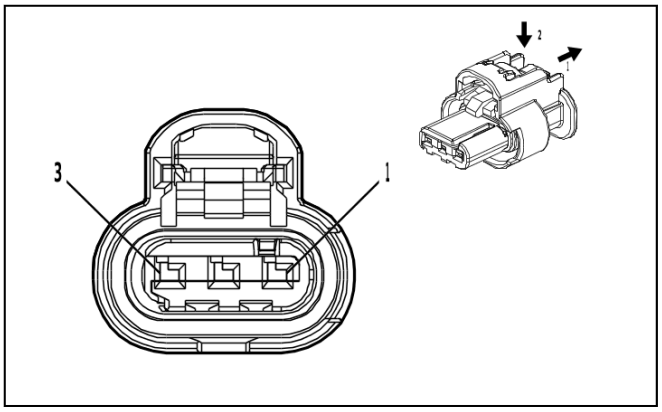
Terminal Part Information

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)

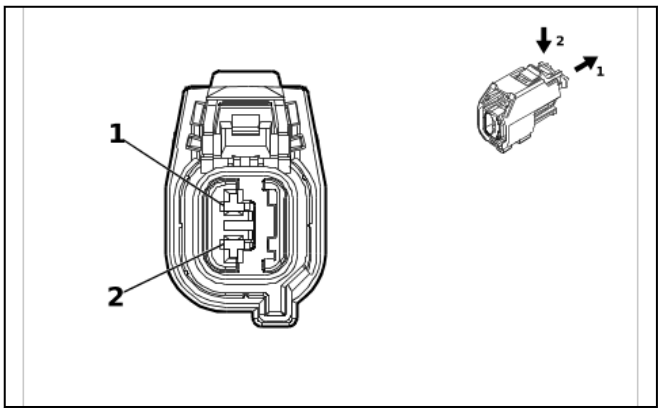
Terminal Part Information

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)

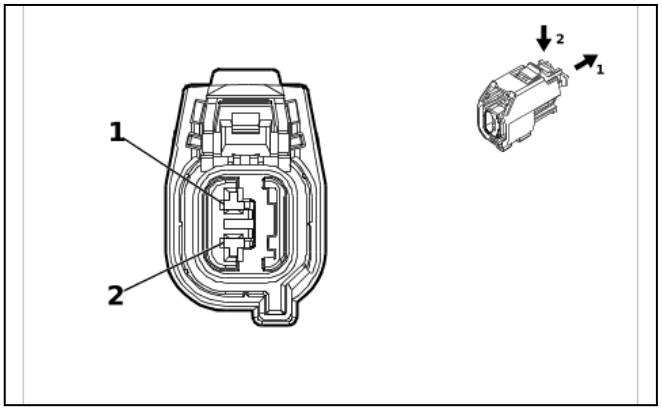
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	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 (DZW - GTY)



5666214

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 85016384
- Service Connector: Service by Harness - See Part Catalog
- Description: Wheel Speed Sensor

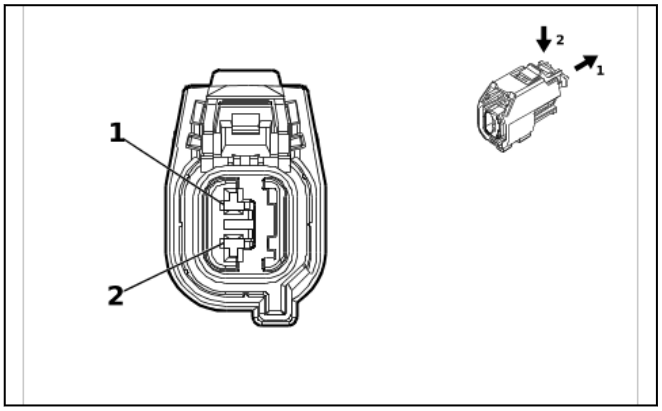
Terminal Part Information

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

B5LR Rear Wheel Speed Sensor - Left (DZW - GTY)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) TN	(1) 7127	(1) Left Rear Wheel Speed Sensor Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) OG	(2) 884	(2) Left Rear Wheel Speed Sensor Signal	(2) I	(2) —

B5LR Rear Wheel Speed Sensor - Left (DZW & GTY)



5666214

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 85016386
- Service Connector: Service by Harness - See Part Catalog
- Description: Wheel Speed Sensor

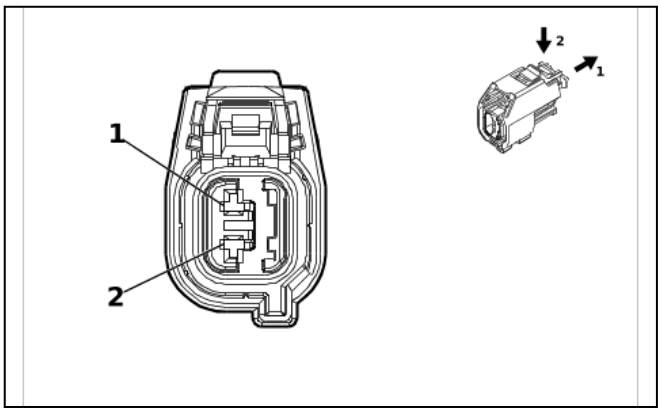
Terminal Part Information

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

B5LR Rear Wheel Speed Sensor - Left (DZW & GTY)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) TN	(1) 7127	(1) Left Rear Wheel Speed Sensor Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) OG	(2) 884	(2) Left Rear Wheel Speed Sensor Signal	(2) I	(2) —

B5LR Rear Wheel Speed Sensor - Left (SRW)



5666214

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 85016382
- Service Connector: Service by Harness - See Part Catalog
- Description: Wheel Speed Sensor

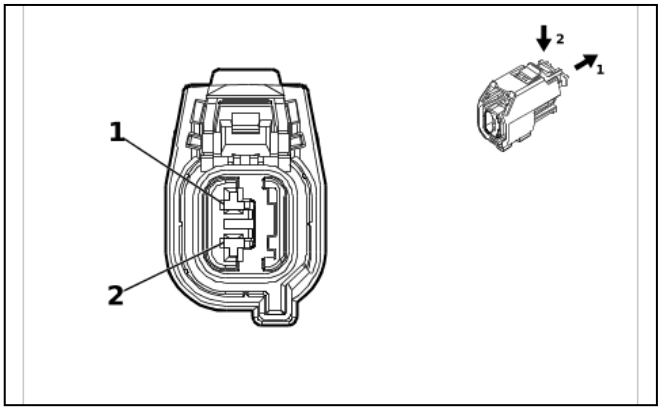
Terminal Part Information

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

B5LR Rear Wheel Speed Sensor - Left (SRW)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) TN	(1) 7127	(1) Left Rear Wheel Speed Sensor Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) OG	(2) 884	(2) Left Rear Wheel Speed Sensor Signal	(2) I	(2) —

B5RF Front Wheel Speed Sensor - Right



5666214

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

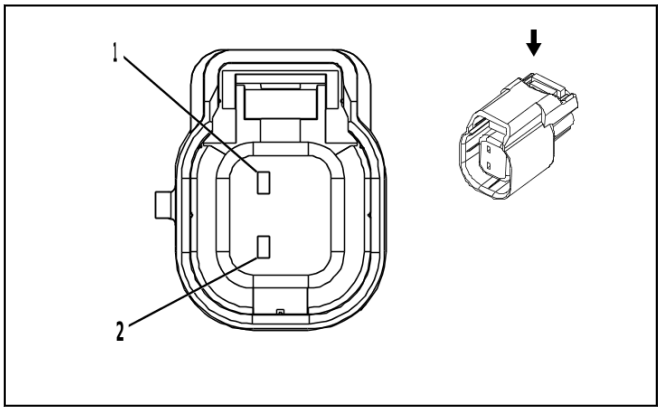
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required

B5RF Front Wheel Speed Sensor - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) GY / BN (1) GY / BN	(1) 7065 (1) 7065	(1) Right Front Wheel Speed Sensor Control (1) Right Front Wheel Speed Sensor Control	(1) I (1) II	(1) L5P (1) L8T
(2) 2	(2) 0.5 (2) 0.5	(2) YE (2) YE	(2) 872 (2) 872	(2) Right Front Wheel Speed Sensor Signal (2) Right Front Wheel Speed Sensor Signal	(2) I (2) II	(2) L5P (2) L8T

B5RR Rear Wheel Speed Sensor - Right (DZW - GTY)



4115616

Connector Part Information

- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 85016385
- Service Connector: Service by Harness - See Part Catalog
- Description: Wheel Speed Sensor

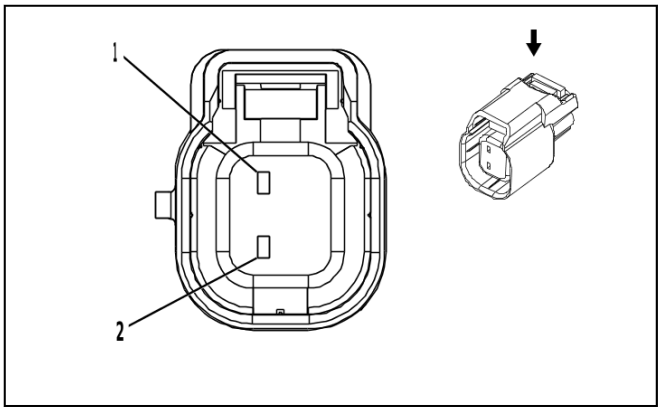
Terminal Part Information

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 (DZW - GTY)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) TN	(1) 7128	(1) Right Rear Wheel Speed Sensor Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) OG	(2) 882	(2) Right Rear Wheel Speed Sensor Signal	(2) I	(2) —

B5RR Rear Wheel Speed Sensor - Right (DZW & GTY)



4115616

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 85016387
- Service Connector: Service by Harness - See Part Catalog
- Description: Wheel Speed Sensor

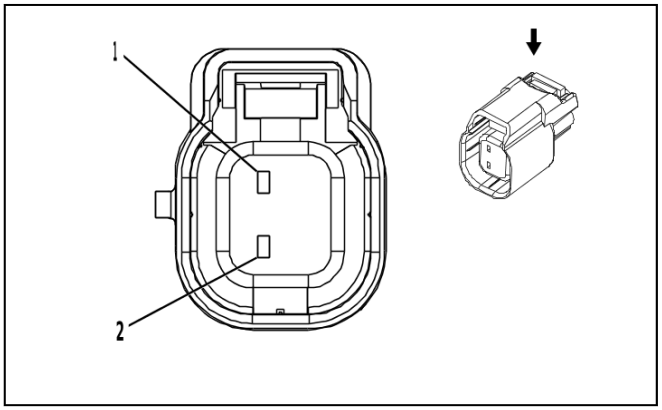
Terminal Part Information

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 (DZW & GTY)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) TN	(1) 7128	(1) Right Rear Wheel Speed Sensor Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) OG	(2) 882	(2) Right Rear Wheel Speed Sensor Signal	(2) I	(2) —

B5RR Rear Wheel Speed Sensor - Right (SRW)



4115616

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 85016383
- Service Connector: Service by Harness - See Part Catalog
- Description: Wheel Speed Sensor

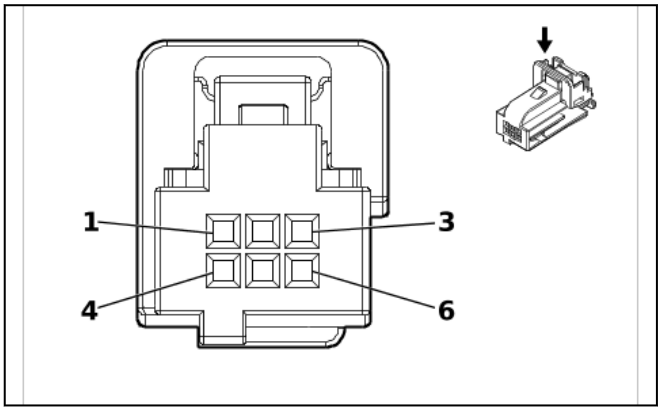
Terminal Part Information

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 (SRW)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) TN	(1) 7128	(1) Right Rear Wheel Speed Sensor Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) OG	(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: 13518220
- Service Connector: 85587649
- Description: 6-Way F 0.64 Micro-Quadlock Series(BK)

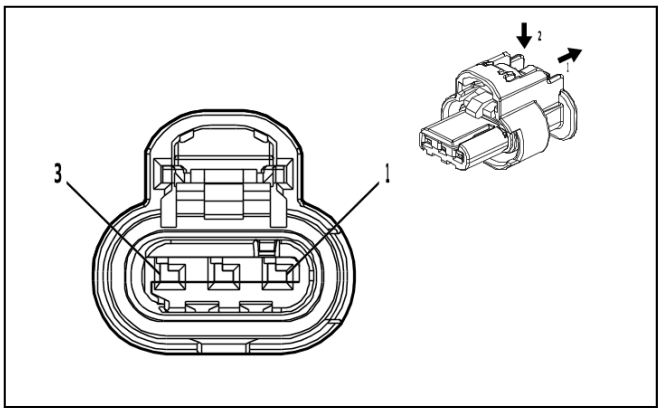
Terminal Part Information

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) —

B12P Automatic Transmission Fluid Pressure Sensor - Power Take-Off (- (NQF / NQH))



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)

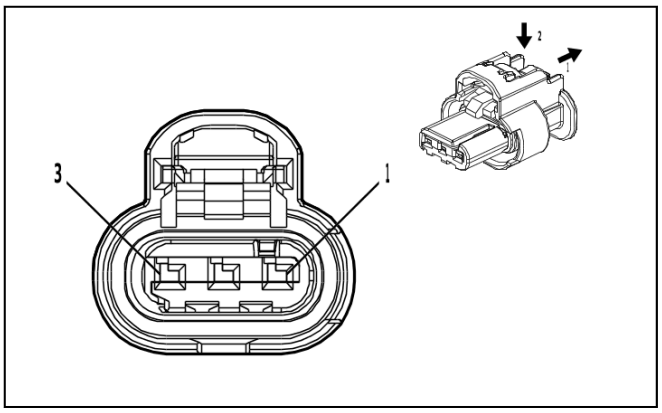
Terminal Part Information

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

B12P Automatic Transmission Fluid Pressure Sensor - Power Take-Off (- (NQF / NQH))

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 8232	(1) Power Take Off Pressure Sensor 5 Volt Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / WH	(2) 8234	(2) Power Take Off Pressure Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE	(3) 8233	(3) Power Take Off Pressure Sensor Low Reference	(3) I	(3) —

B12P Automatic Transmission Fluid Pressure Sensor - Power Take-Off (NQF / NQH)



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)

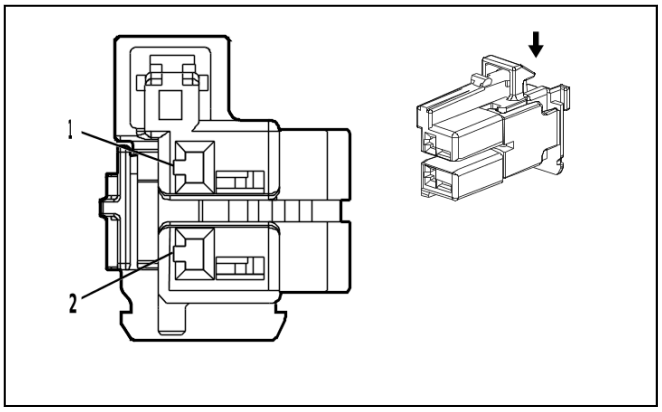
Terminal Part Information

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

B12P Automatic Transmission Fluid Pressure Sensor - Power Take-Off (NQF / NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 8232	(1) Power Take Off Pressure Sensor 5 Volt Reference	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / WH	(2) 8234	(2) Power Take Off Pressure Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE	(3) 8233	(3) Power Take Off Pressure Sensor Low Reference	(3) I	(3) —

B13 Automatic Transmission Fluid Temperature Sensor (MGM / MGU / MKM)



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)

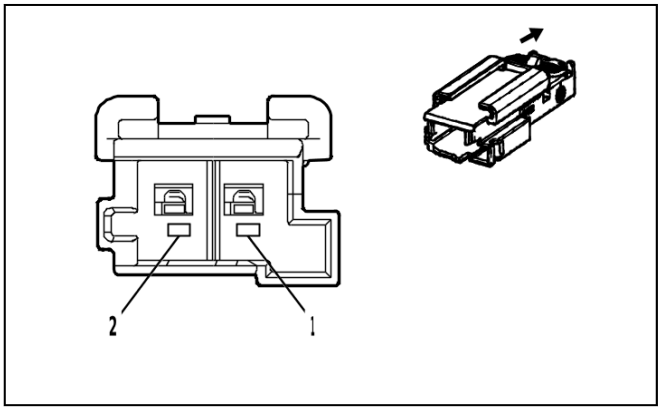
Terminal Part Information

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 (MGM / MGU / MKM)

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) —

B14A Automatic Transmission Output Speed Sensor



4672593

Connector Part Information
- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 2340311-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(BU)

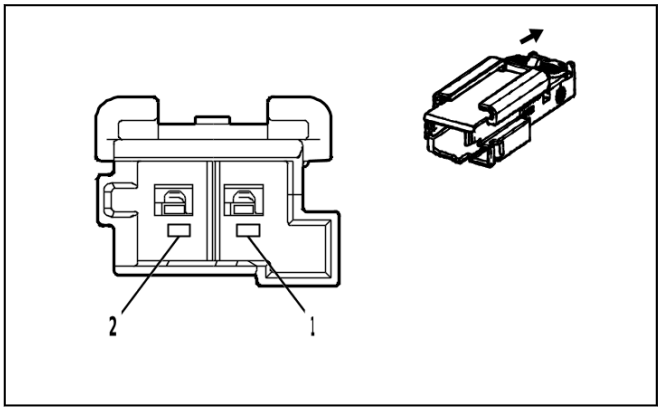
Terminal Part Information

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

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



4672611

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 2340311-3
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(GN)

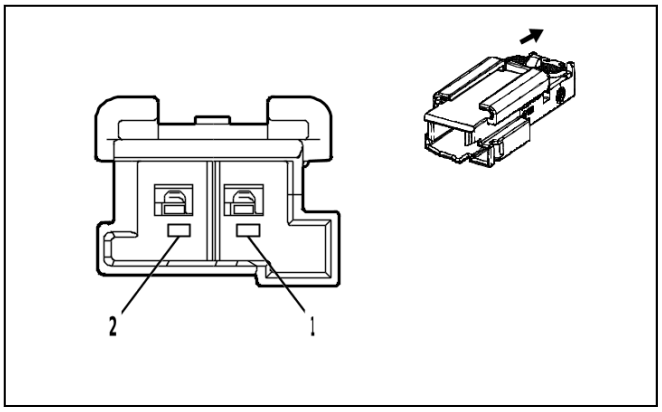
Terminal Part Information

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

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



4663490

Connector Part Information
- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 2340311-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(NA)

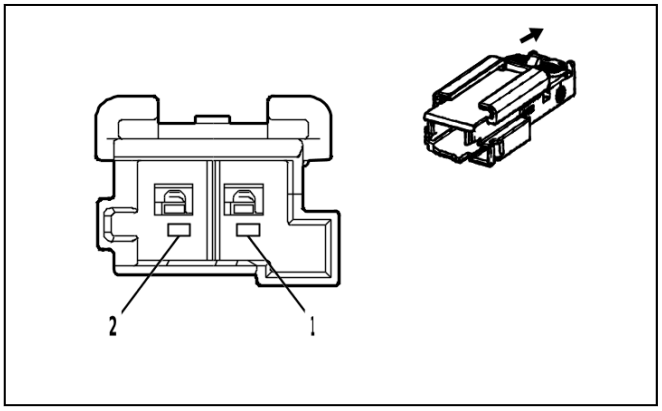
Terminal Part Information

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

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



4672593

Connector Part Information
- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 2340311-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(BU)

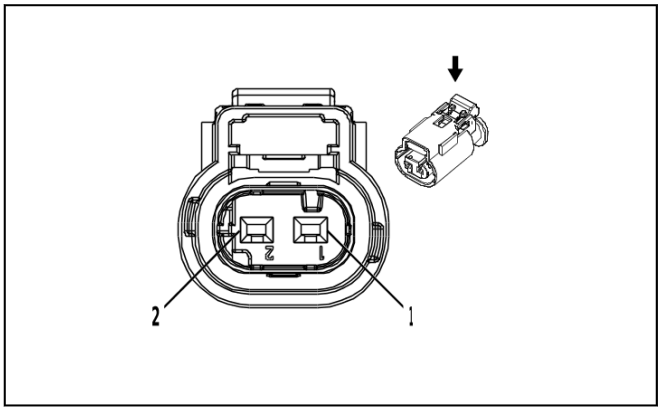
Terminal Part Information

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

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



2717066

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 10010337
- Service Connector: 13587326
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

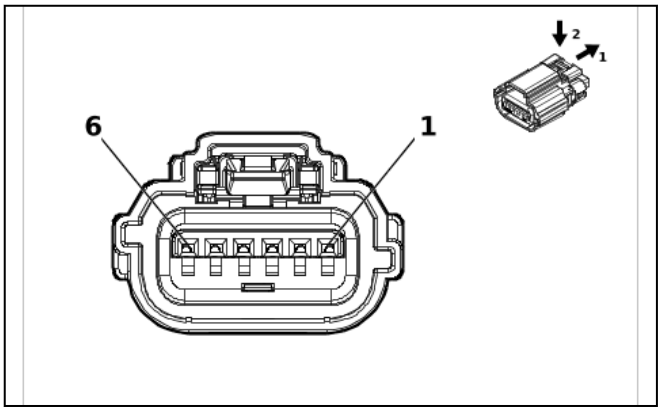
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	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) II	(1) —
(2) 2	(2) 1	(2) BK	(2) 150	(2) 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)

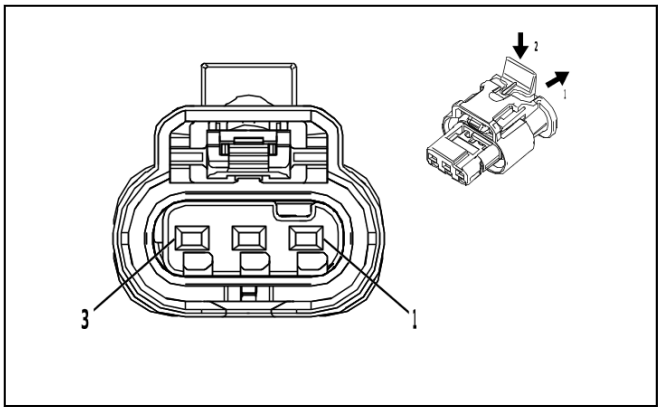
Terminal Part Information

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) —
(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 (L5P)



4249125

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13594670
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCP Series, Sealed(BN)

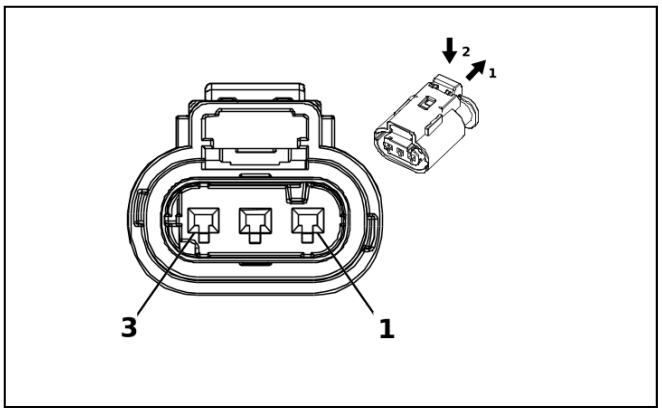
Terminal Part Information

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

B23 Camshaft Position Sensor (L5P)

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 (L8T)



2717069

Connector Part Information

- Harness Type: Camshaft Position Sensor Wire
- OEM Connector: 13503570
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

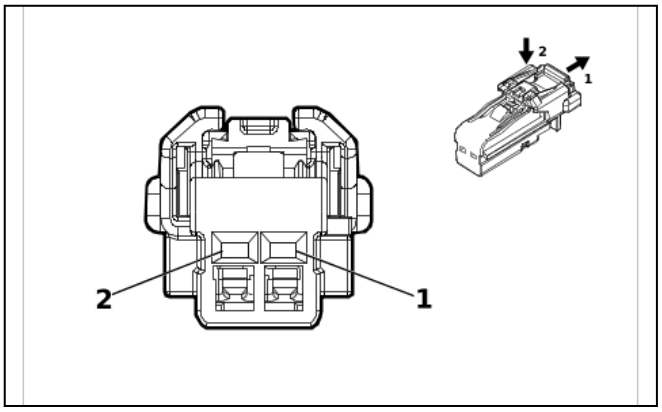
Terminal Part Information

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 (L8T)

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) —

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)

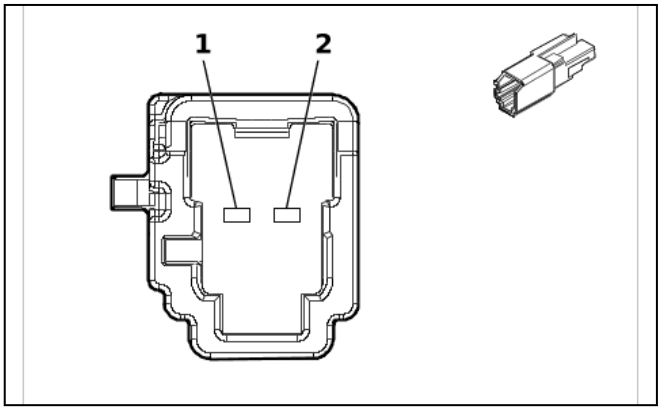
Terminal Part Information

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)

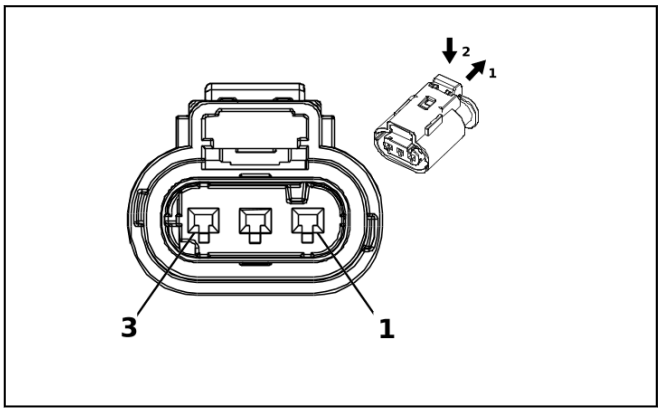
Terminal Part Information

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



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)

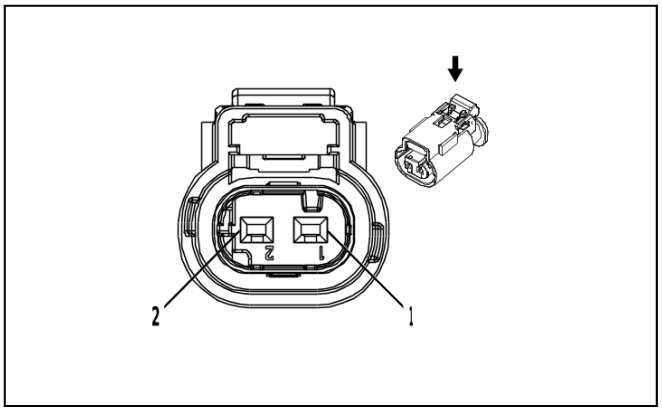
Terminal Part Information

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

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) —

B33 Low Coolant Level 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)

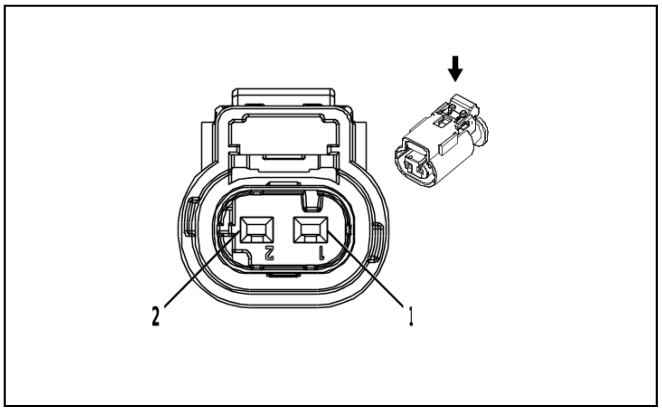
Terminal Part Information

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

B33 Low Coolant Level Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / YE	(1) 68	(1) Low Coolant Level Indicator Control	(1) II	(1) —
(2) 2	(2) 1	(2) BK / WH	(2) 251	(2) Signal Ground	(2) I	(2) —

B34 Engine Coolant Temperature Sensor



2717066

Connector Part Information
- Harness Type: Engine Coolant Temperature Sensor Harness
- OEM Connector: 10010337
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

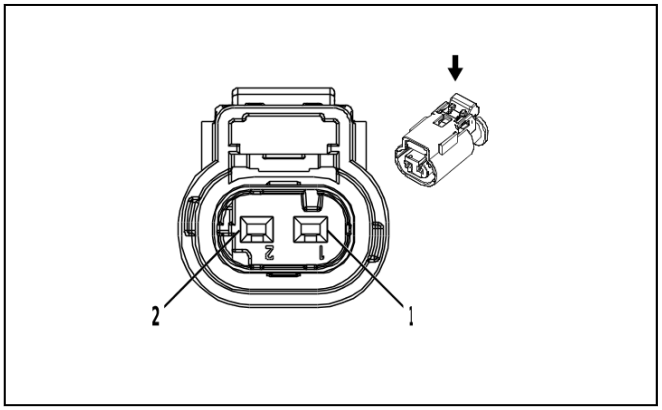
Terminal Part Information

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

B34 Engine Coolant Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU	(1) 410	(1) Engine Coolant Temperature 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) —

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)

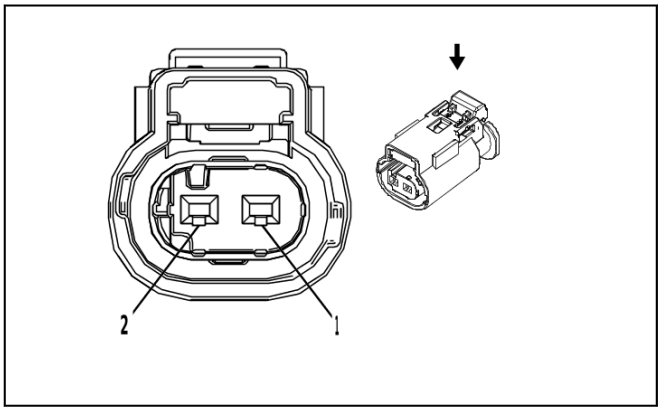
Terminal Part Information

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

B35 Engine Oil Level Indicator Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1 (1) 0.5	(1) BK / WH (1) BN / GN	(1) 6151 (1) 1174	(1) Engine Control Module Ground (1) Oil Level Switch Signal	(1) II (1) I	(1) L5P (1) L8T
(2) 2	(2) 0.5 (2) 1	(2) BN / GN (2) BK / WH	(2) 1174 (2) 251	(2) Oil Level Switch Signal (2) Signal Ground	(2) II (2) I	(2) L5P (2) L8T

B36 Engine Oil 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)

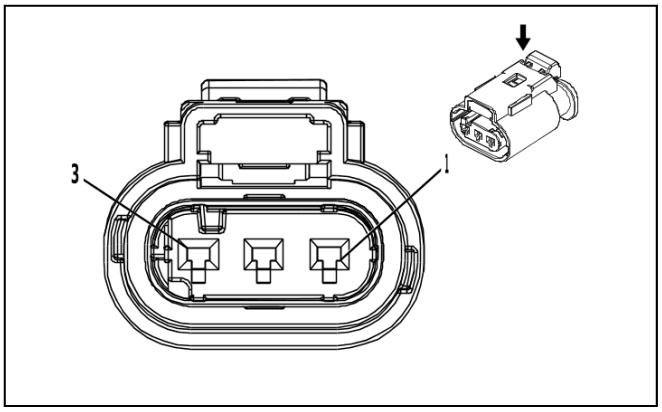
Terminal Part Information

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

B36 Engine Oil Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / BU	(1) 357	(1) Oil Temperature 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) —

B37B Engine Oil Pressure Sensor



3240107

Connector Part Information

- Harness Type: Engine Coolant Temperature Sensor Harness
- OEM Connector: 10010344
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

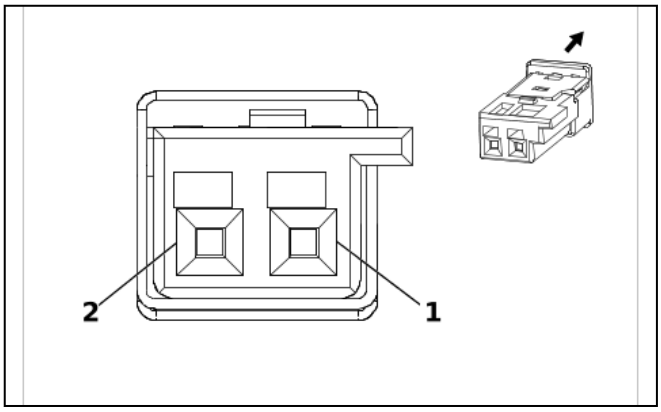
Terminal Part Information

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

B37B Engine Oil Pressure Sensor

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) 0.5	(3) BU / RD (3) WH / RD	(3) 460 (3) 480	(3) Engine Control Sensors 5 Volt Reference 1 (3) Engine Control Vehicle Sensors 5 Volt Reference 1	(3) I (3) I	(3) L5P (3) L8T

B39 Air Conditioning Evaporator Air Temperature Sensor



2780265

Connector Part Information
- Harness Type: Heater Wiring Harness
- OEM Connector: 13535799
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 Micro-Quadlock Series(NA)

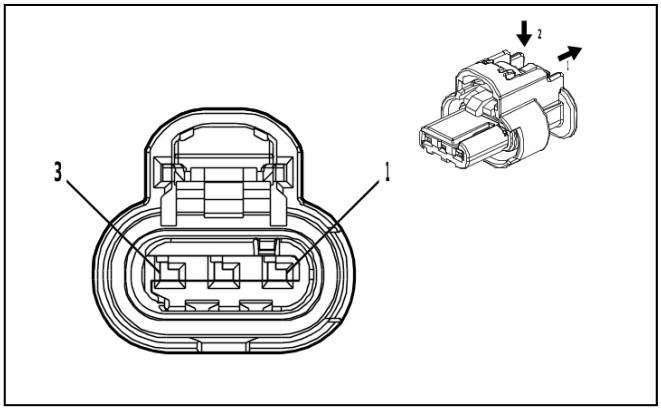
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	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 (FHS)



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)

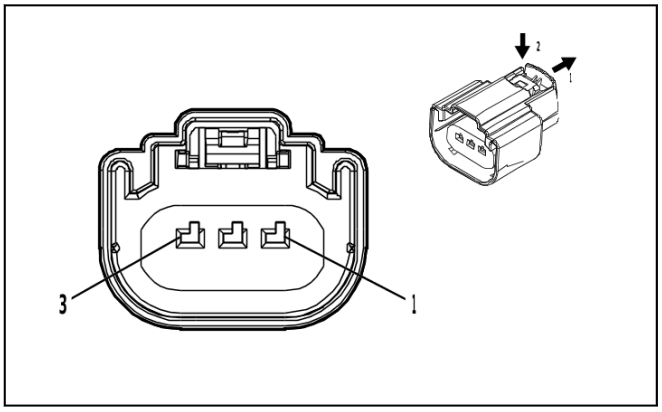
Terminal Part Information

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 (FHS)

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) —

B47 Fuel Pressure Sensor (L5P)



4569745

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 13510882
- Service Connector: 19179750
- Description: 3-Way F 1.5 MX Series, Sealed(BK)

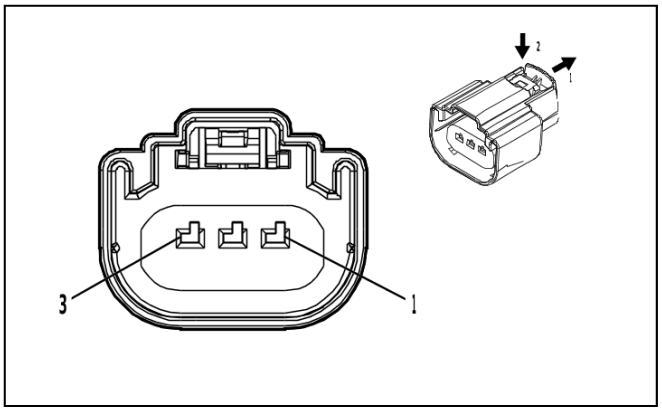
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required

B47 Fuel Pressure Sensor (L5P)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75 (1) 0.5	(1) BU / WH (1) BU / WH	(1) 7446 (1) 7446	(1) Fuel Pressure Sensor Signal (1) Fuel Pressure Sensor Signal	(1) II (1) I	(1) L5P+ N2N (1) L5P- N2N
(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) BN / RD	(3) 7445	(3) Fuel Line Pressure Sensor 5V Reference	(3) I	(3) —

B47 Fuel Pressure Sensor (L8T)



4569745

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 13510882
- Service Connector: 19179750
- Description: 3-Way F 1.5 MX Series, Sealed(BK)

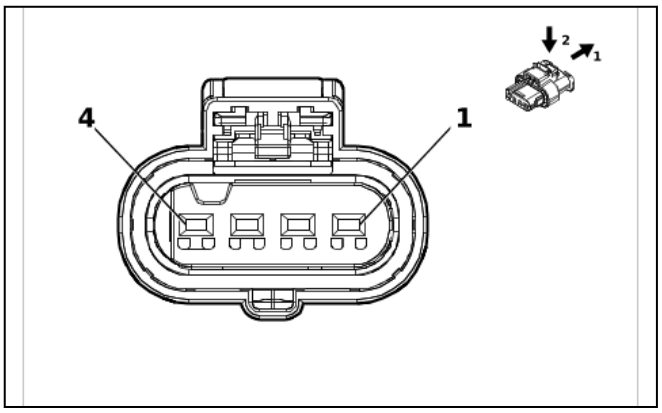
Terminal Part Information

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

B47 Fuel Pressure Sensor (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / WH	(1) 7446	(1) Fuel Pressure Sensor Signal	(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) BN / RD	(3) 7445	(3) Fuel Line Pressure Sensor 5V Reference	(3) I	(3) —

B47B Fuel Rail Pressure Sensor



5985721

Connector Part Information

- Harness Type: Fuel Rail Pressure Sensor Jumper
- OEM Connector: 13534801
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2 HPF Series, Sealed(BK)

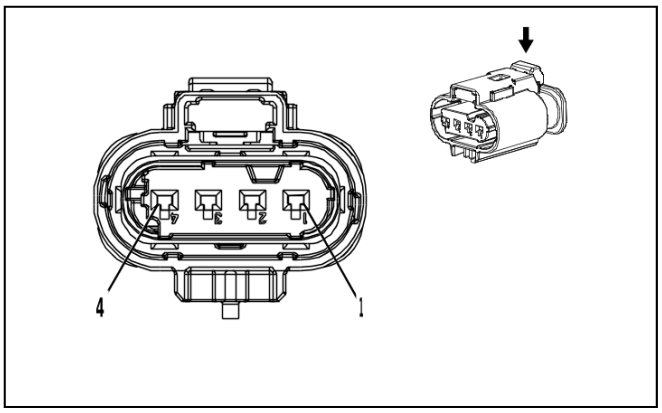
Terminal Part Information

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

B47B Fuel Rail Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) BN / RD	(1) 2917	(1) Fuel Rail Pressure Sensor 5V Reference	(1) I	(1) —
(2) 2	(2) —	(2) BN / YE	(2) 2161	(2) Fuel Rail Pressure Sensor 2 Signal	(2) I	(2) —
(3) 3	(3) —	(3) BK / GN	(3) 2919	(3) Fuel Rail Pressure Sensor Low Reference	(3) I	(3) —
(4) 4	(4) —	(4) BU / WH	(4) 2918	(4) Fuel Rail Pressure Sensor Signal	(4) I	(4) —

B52C Heated Oxygen Sensor - Bank 1 Sensor 1



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)

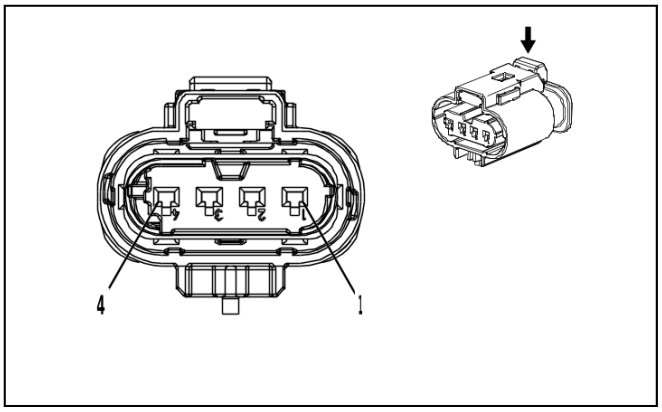
Terminal Part Information

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

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 4	(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



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)

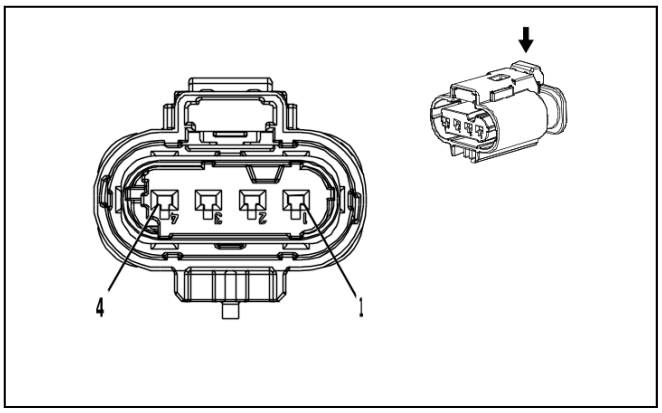
Terminal Part Information

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

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) BN	(4) 3120	(4) HO2S High Signal Bank 1 Sensor 2	(4) I	(4) —

B52E Heated Oxygen Sensor - Bank 2 Sensor 1



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)

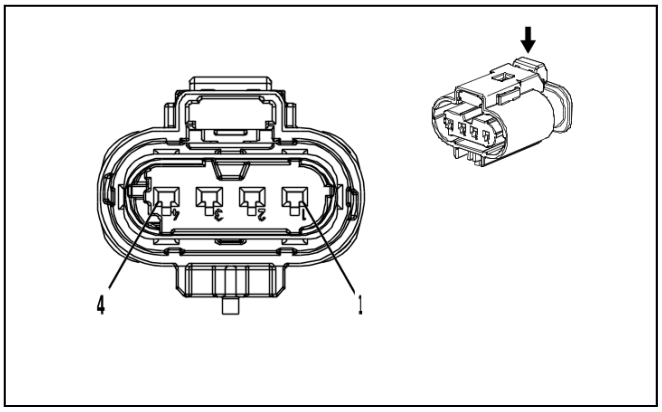
Terminal Part Information

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

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 4	(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



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)

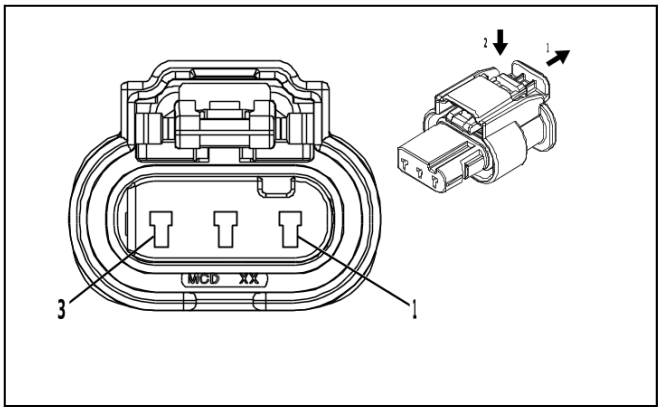
Terminal Part Information

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

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)

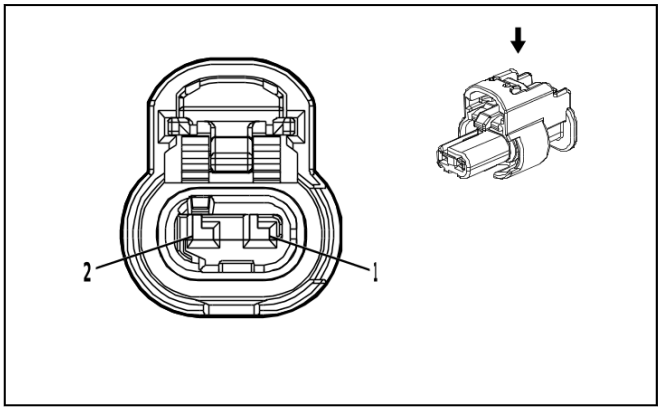
Terminal Part Information

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	(3) 150	(3) Ground	(3) I	(3) —

B58L Airbag Front End Discriminating Sensor - Left



4690744

Connector Part Information
- Harness Type: Body Wiring Harness
- OEM Connector: 1-2296694-3
- Service Connector: 19366871
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

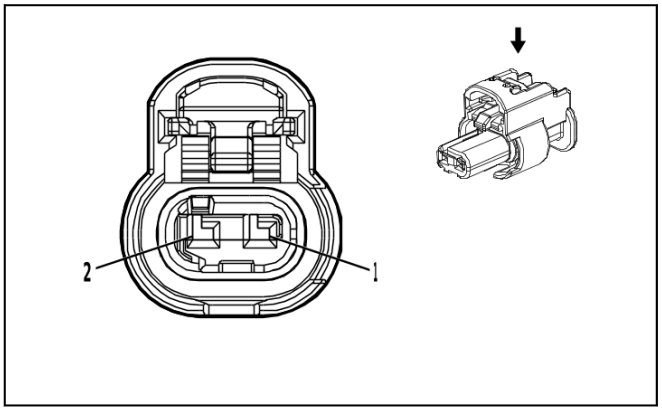
Terminal Part Information

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

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



4690744

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 1-2296694-3
- Service Connector: 19366871
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

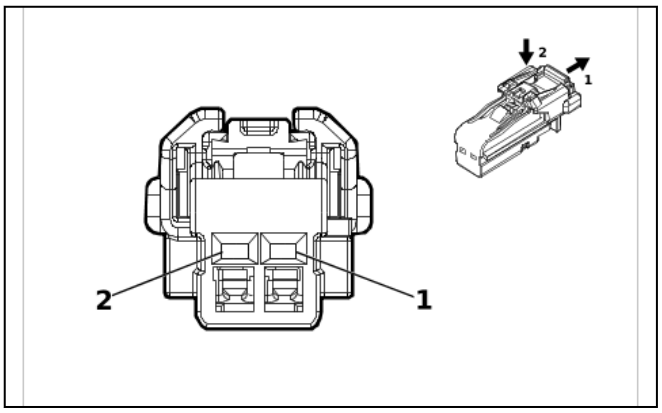
Terminal Part Information

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

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)

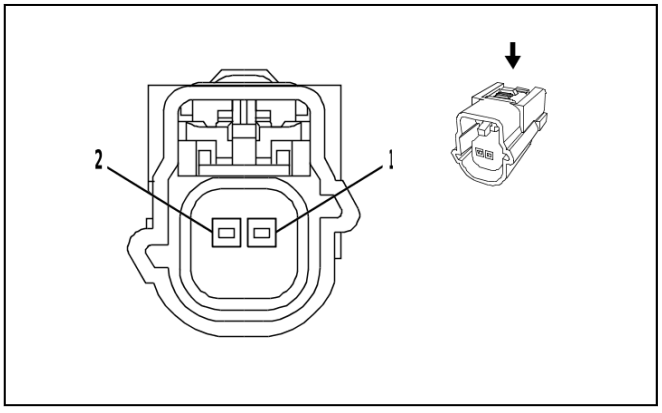
Terminal Part Information

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 - Left
- OEM Connector: 13610095
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 Series, Sealed(GY)

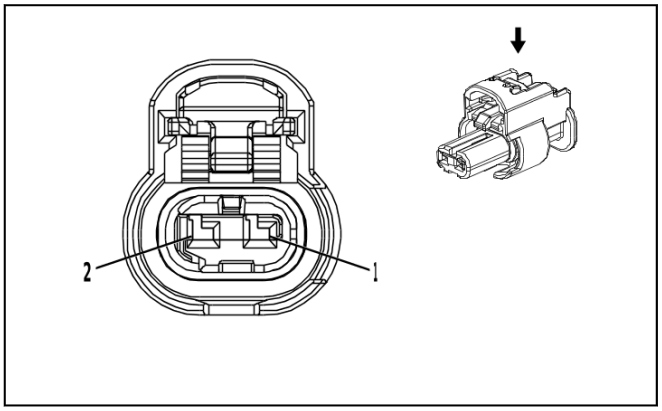
Terminal Part Information

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



4335931

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Left
- OEM Connector: 1-2296694-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

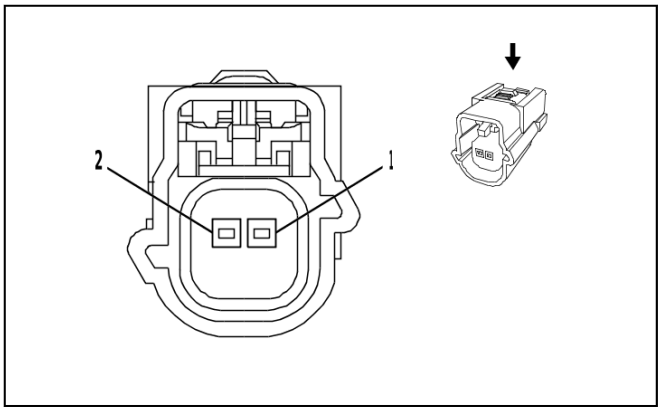
Terminal Part Information

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

B63LR Airbag Side Impact Rear 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 - Right
- OEM Connector: 13610095
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 Series, Sealed(GY)

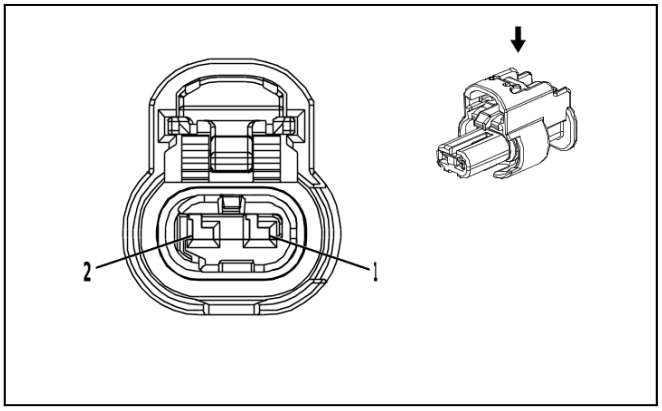
Terminal Part Information

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



4335931

Connector Part Information
- Harness Type: Rear Side Door Door Wiring Harness - Right
- OEM Connector: 1-2296694-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

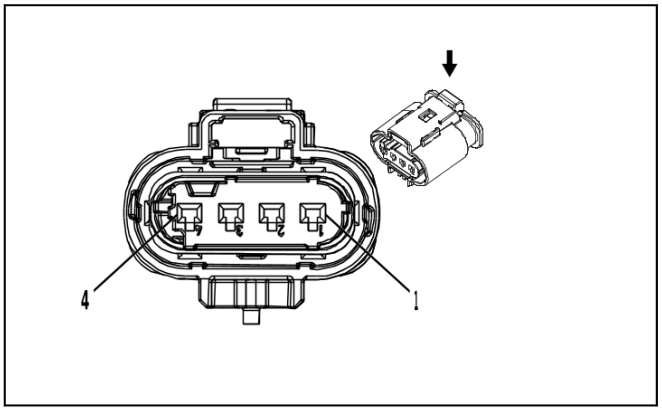
Terminal Part Information

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

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) —

B66 Intake Air Temperature Sensor



2717079

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 13503575
- Service Connector: 13587299
- Description: 4-Way F 1.2 Multilock Series, Sealed(BK)

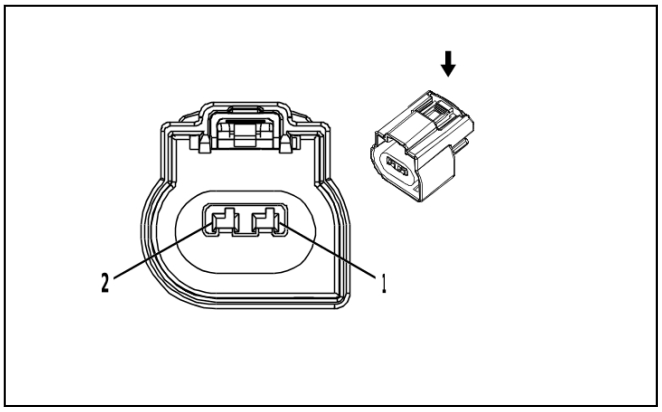
Terminal Part Information

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

B66 Intake Air Temperature Sensor

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) 10667	(2) Engine Control Sensors 5 Volt Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) BK / GN	(3) 580	(3) Engine Control Sensors Low Reference 2	(3) I	(3) —
4	—	—	—	Not Occupied	—	—

B68A Knock Sensor 1



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)

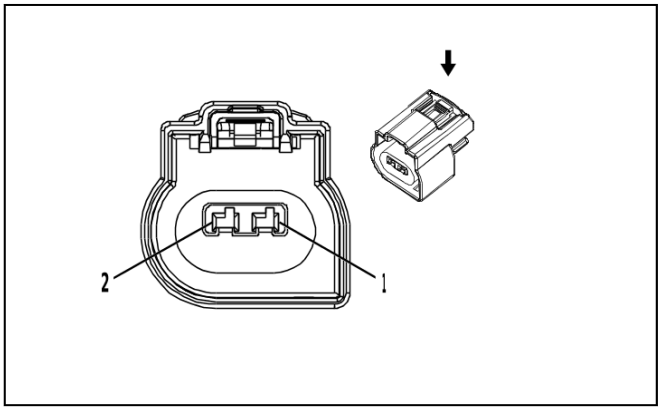
Terminal Part Information

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

B68A Knock Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / GY	(1) 496	(1) Knock Sensor 1 Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 1716	(2) Knock Sensor Low Reference 1	(2) I	(2) —

B68B Knock Sensor 2



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)

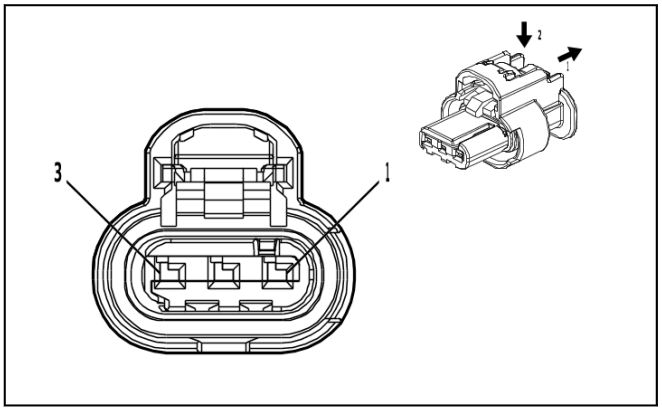
Terminal Part Information

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

B68B Knock Sensor 2

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) —

B74 Manifold Absolute Pressure Sensor (L5P)



4581126

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13514590
- Service Connector: 86792094
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

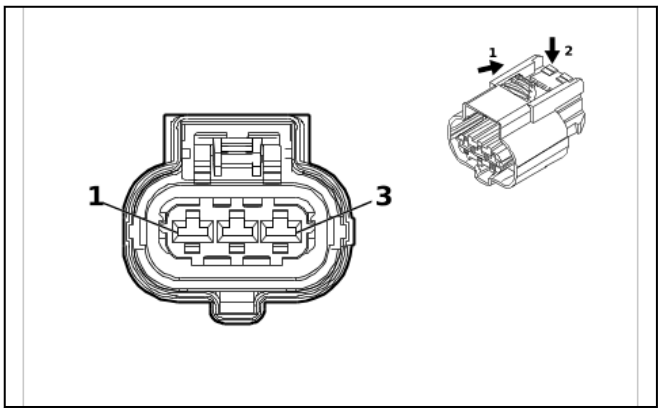
Terminal Part Information

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

B74 Manifold Absolute Pressure Sensor (L5P)

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) GN / WH	(3) 432	(3) Manifold Absolute Pressure Sensor Signal	(3) I	(3) —

B74 Manifold Absolute Pressure Sensor (L8T)



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)

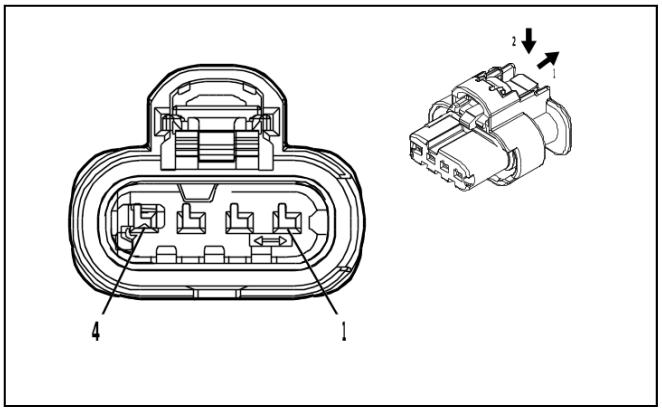
Terminal Part Information

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 (L8T)

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)

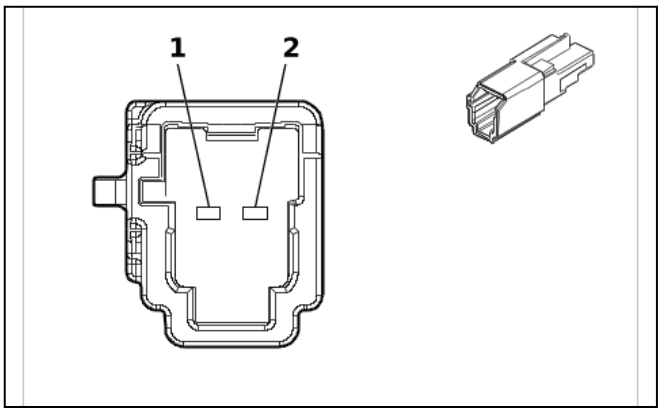
Terminal Part Information

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) 0.75 (1) 0.5	(1) VT / BU (1) VT / BU	(1) 5294 (1) 5294	(1) Powertrain Main Relay Fused Supply Voltage 5 (1) Powertrain Main Relay Fused Supply Voltage 5	(1) I (1) I	(1) L5P (1) L8T
(2) 2	(2) 0.5	(2) BU	(2) 492	(2) Mass Air Flow Sensor Signal	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / WH	(3) 4622	(3) Engine Control Module LIN Bus 2	(3) I	(3) —
(4) 4	(4) 0.5 (4) 1	(4) BK / WH (4) BK / WH	(4) 6151 (4) 251	(4) Engine Control Module Ground (4) Signal Ground	(4) I (4) I	(4) L5P (4) L8T

B77 Radio Volume Compensator Interior Noise Microphone



6529124

Connector Part Information
- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 6099-0610
- Service Connector: 85725003
- Description: 2-Way M 1.2 MBS Series(BK)

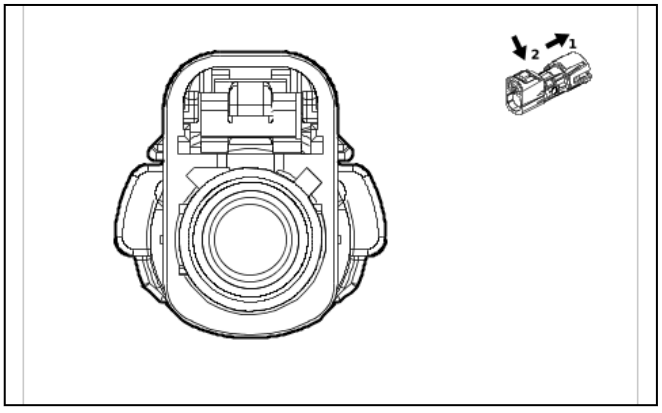
Terminal Part Information

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

B77 Radio Volume Compensator Interior Noise Microphone

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GN / BK	(1) 3008	(1) Active Noise Cancellation Microphone 1 Feedback Signal	(1) I	(1) —
(2) 2	(2) 0.35	(2) GN / BN	(2) 3005	(2) Active Noise Cancellation Microphone 1 Signal	(2) I	(2) —

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)

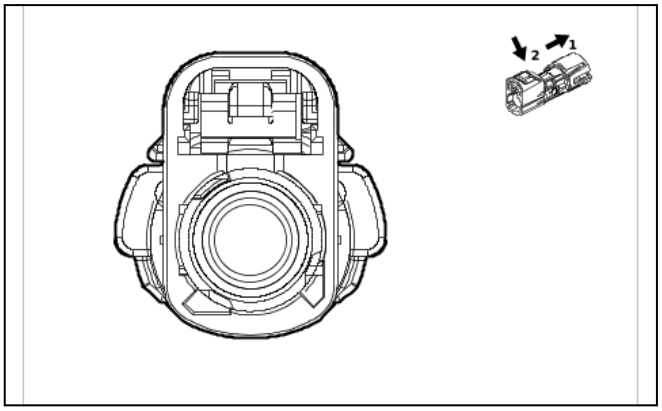
Terminal Part Information

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)

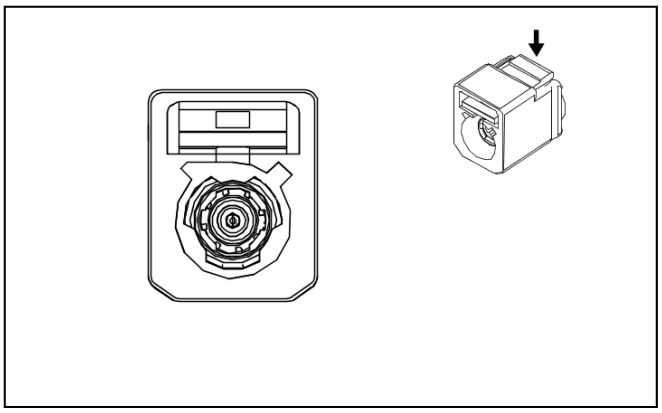
Terminal Part Information

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 COAX
- OEM Connector: 3FA1ENARJ-C01ER
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BK)

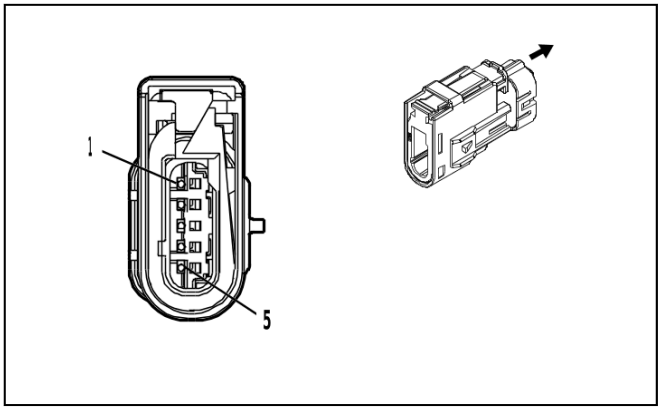
Terminal Part Information

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	—

B87CA Auxiliary Rearview Camera - Cargo Area (UVO)



4808321

Connector Part Information
- Harness Type: Inside Rearview Mirror Wiring Harness
- OEM Connector: SRVWSB-05A-AH
- Service Connector: Service by Harness - See Part Catalog
- Description: 5-Way M 1.2 Series, Sealed(GY)

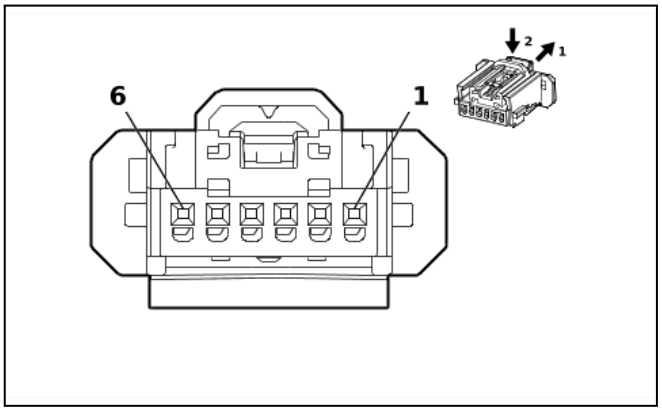
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

B87CA Auxiliary Rearview Camera - Cargo Area (UVO)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GY / YE	(1) 6972	(1) Rearview Camera Signal [+]	(1) I	(1) —
(2) 2	(2) 0.35	(2) WH / BU	(2) 6973	(2) Rearview Camera Signal [-]	(2) I	(2) —
(3) 3	(3) 0.35	(3) BU	(3) 6974	(3) Rearview Camera Low Reference	(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) VT / GN	(5) 339	(5) Run/Crank Ignition 1 Voltage	(5) I	(5) —

B99 Steering Angle Sensor Module



6171406

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 2292884-5
- Service Connector: 85669157
- Description: 6-Way F 2.0 Gen 50 Series(BK)

Terminal Part Information

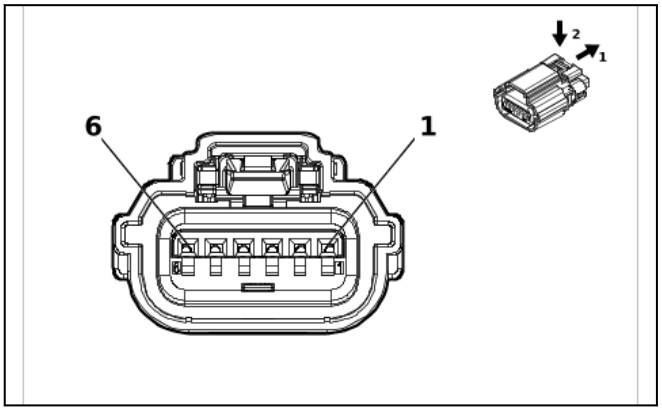
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

B99 Steering Angle Sensor Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) BU / WH	(1) 10279	(1) Private Steering Angle CAN Bus [-] Serial Data	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) YE	(3) 10280	(3) Private Steering Angle CAN Bus [+] Serial Data	(3) I	(3) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.35	(5) GN / BN	(5) 2087	(5) Multi-axis Acceleration Sensor Supply Voltage	(5) I	(5) —
(6) 6	(6) 0.35	(6) BK / WH	(6) 851	(6) Signal Ground	(6) I	(6) —

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)

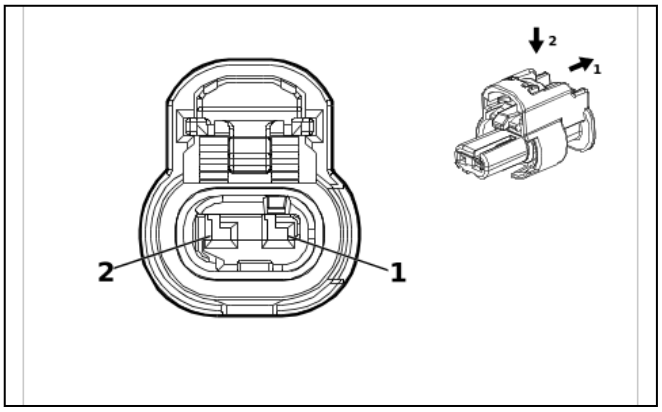
Terminal Part Information

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)

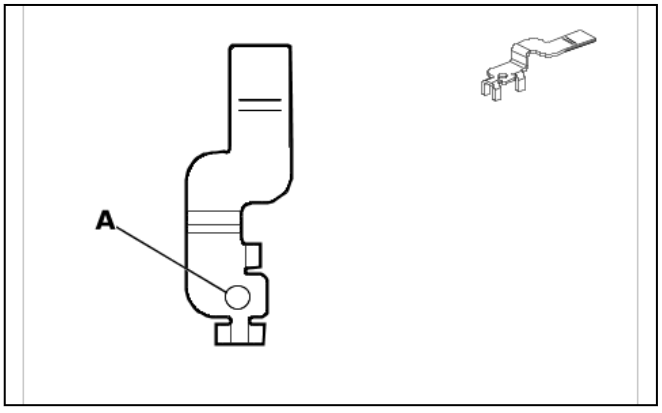
Terminal Part Information

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



6444803

Connector Part Information
- Harness Type: Battery Negative Cable
- OEM Connector: 86816602
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

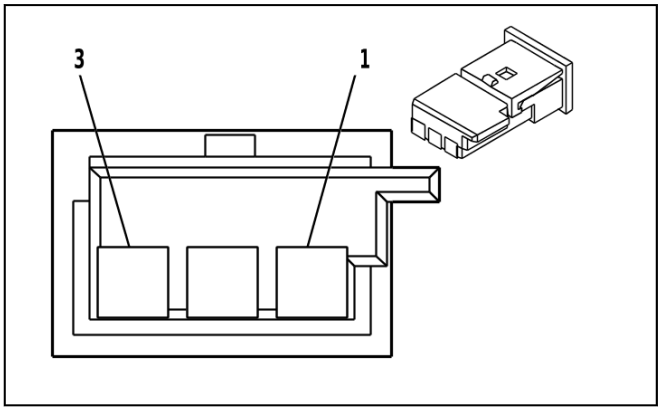
Terminal Part Information

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

B110 Battery Monitor Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	50	BK	550	Ground	I	—

B117A Windshield Outside Moisture/Ambient Light and Humidity Sensor



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)

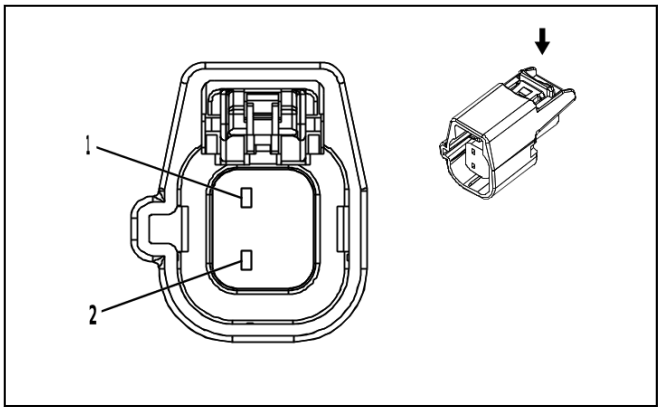
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) RD / VT	(1) 1340	(1) Battery Positive 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) 1050	(3) 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)

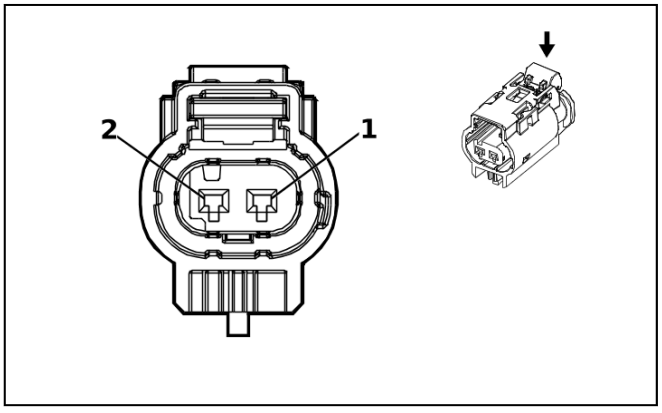
Terminal Part Information

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	(2) 150	(2) Ground	(2) I	(2) —

B130 Exhaust Gas Recirculation Temperature Sensor



5207726

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13583199
- Service Connector: 19332628
- Description: 2-Way F 1.2 Multilock Series, Sealed(GY)

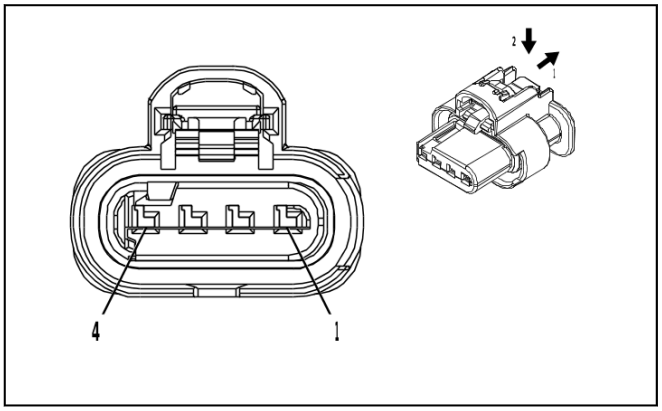
Terminal Part Information

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

B130 Exhaust Gas Recirculation Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / GN	(1) 3236	(1) Exhaust Gas Recirculation Temperature Sensor 2 Signal	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 6275	(2) Exhaust Gas Recirculation Temperature Sensor 2 Low Reference	(2) I	(2) —

B136 Exhaust Particulate Matter Sensor



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)

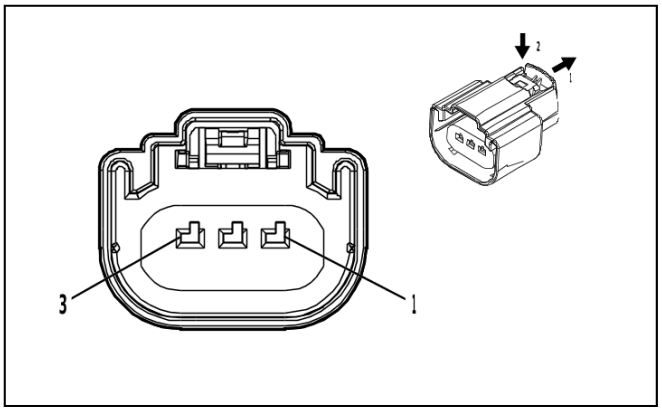
Terminal Part Information

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

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) —

B139 Transfer Case Two/Four Wheel Drive Actuator Position Sensor



4569745

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13510882
- Service Connector: 19179750
- Description: 3-Way F 1.5 MX Series, Sealed(BK)

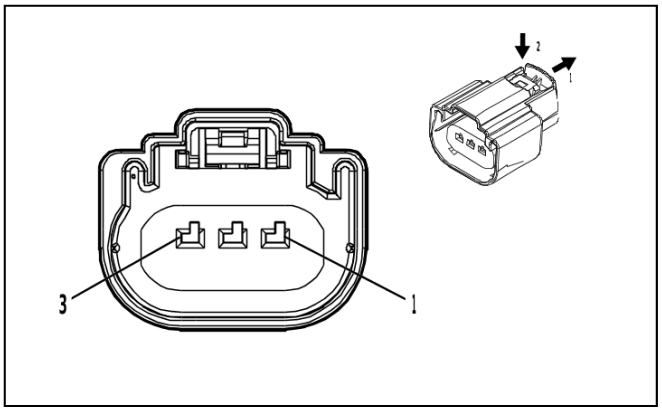
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required

B139 Transfer Case Two/Four Wheel Drive Actuator Position Sensor

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) II	(1) —
(2) 2	(2) 0.5 (2) 0.5	(2) WH / GN (2) WH / GN	(2) 7479 (2) 7479	(2) Rotary Position Sensor Signal (2) Rotary Position Sensor Signal	(2) I (2) II	(2) L5P (2) L8T
(3) 3	(3) 0.5	(3) YE / BK	(3) 7478	(3) Gear Position Sensor Low Reference	(3) II	(3) —

B150 Fuel Tank Pressure Sensor - Chassis Cab



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)

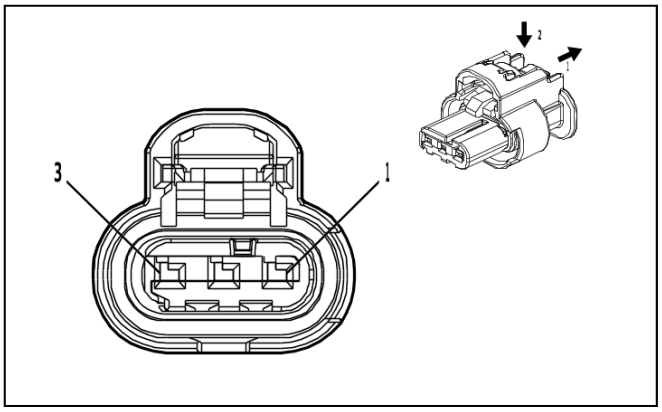
Terminal Part Information

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 - Chassis Cab

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / GN	(1) 890	(1) Fuel Tank Pressure Sensor Signal	(1) I	(1) —
(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) —

B150 Fuel Tank Pressure Sensor - Pickup



4778903

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 1-2296695-2
- Service Connector: 86792095
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

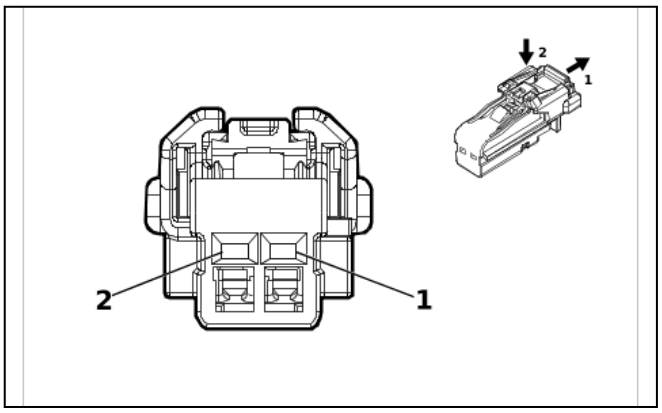
Terminal Part Information

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

B150 Fuel Tank Pressure Sensor - Pickup

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / GN	(1) 890	(1) Fuel Tank Pressure Sensor Signal	(1) I	(1) —
(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) —

B153D Front Seat Belt Buckle - Driver



4115691

Connector Part Information
- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

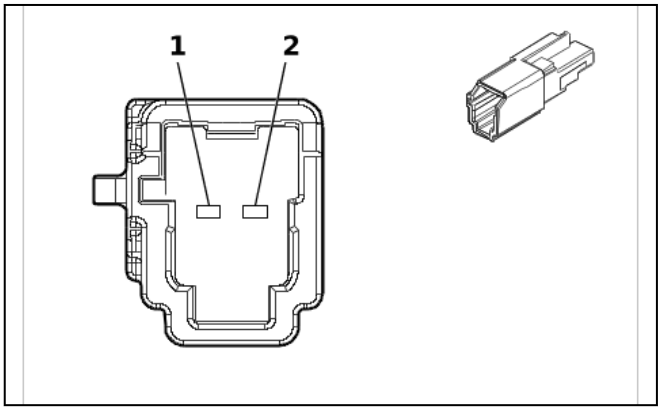
Terminal Part Information

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

B153D Front Seat Belt Buckle - 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) —

B153LR Rear Seat Belt Buckle - Left



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)

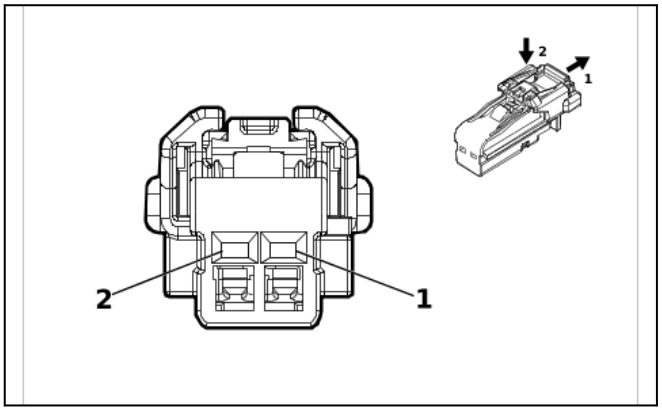
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

B153LR Rear Seat Belt Buckle - Left

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) —

B153P Front Seat Belt Buckle - 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)

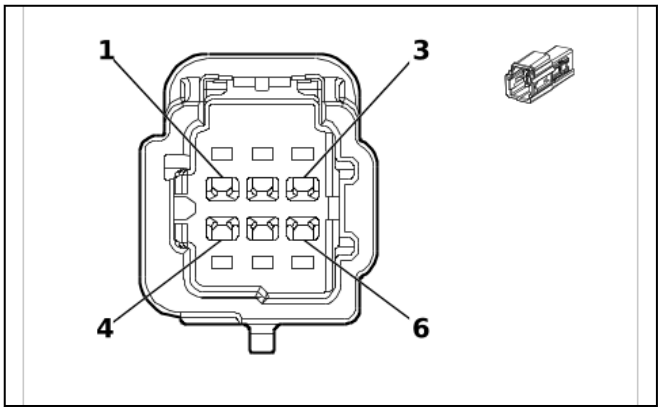
Terminal Part Information

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

B153P Front Seat Belt Buckle - 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) —

B153RR Rear Seat Belt Buckle - Right



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)

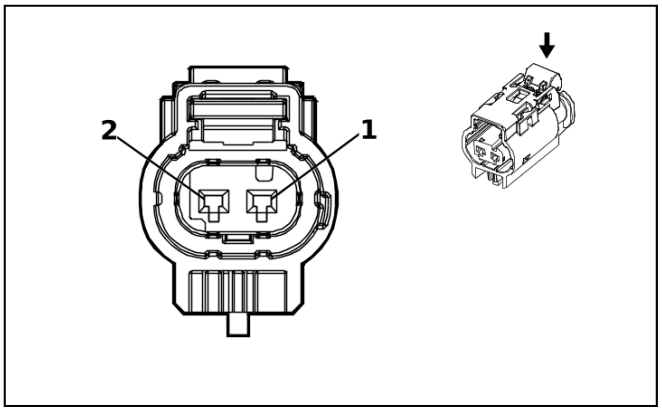
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

B153RR Rear Seat Belt Buckle - Right

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) —

B172LF Front Disc Brake Pad Wear Sensor - Left



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)

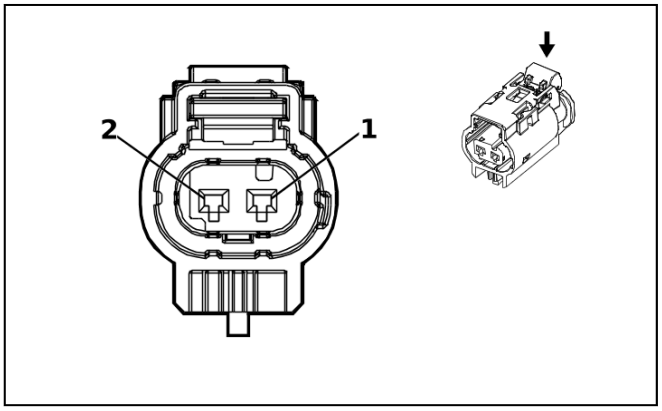
Terminal Part Information

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

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) 1	(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)

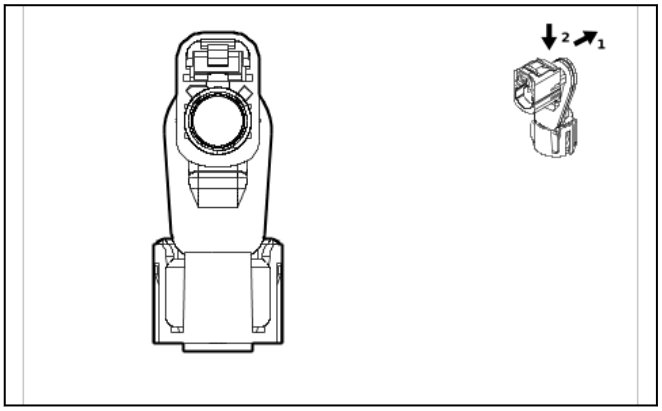
Terminal Part Information

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) —
(2) 2	(2) 0.75	(2) BK / WH	(2) 1751	(2) Signal Ground	(2) I	(2) —

B174G Front View Driver Information Camera - Grille



5920539

Connector Part Information

- Harness Type: Front View Camera Switch Wiring Harness COAX
- OEM Connector: 13537644
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BK)

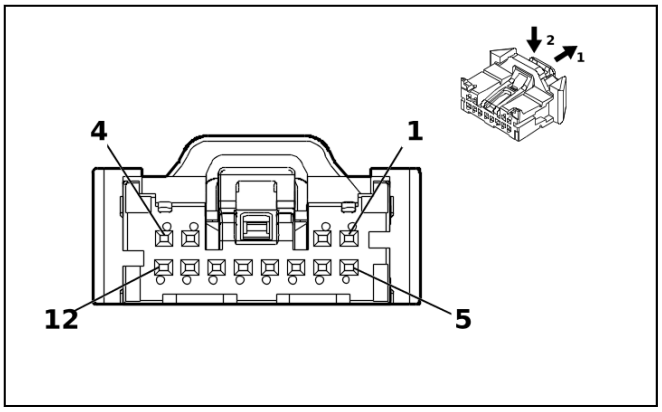
Terminal Part Information

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

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)

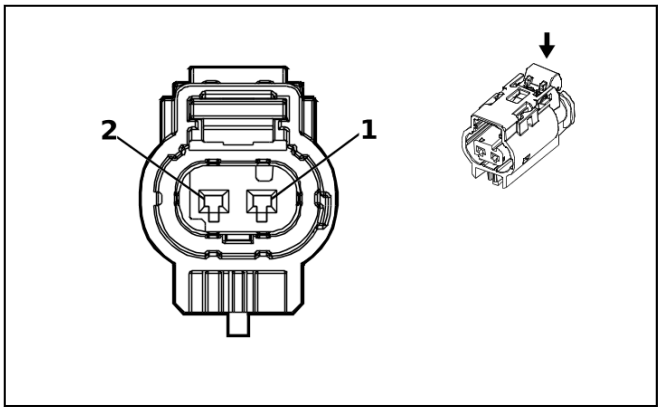
Terminal Part Information

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) 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) BU / YE	(7) 4979	(7) AUTOSAR CAN Bus [+] 2 Serial Data	(7) I	(7) —
(8) 8	(8) 0.35	(8) WH	(8) 4978	(8) AUTOSAR CAN Bus [-] 2 Serial Data	(8) I	(8) —
9 - 12	—	—	—	Not Occupied	—	—

B193A Charge Air Cooler Air Temperature Sensor - Inlet



3747581

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13583195
- Service Connector: 84727362
- Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

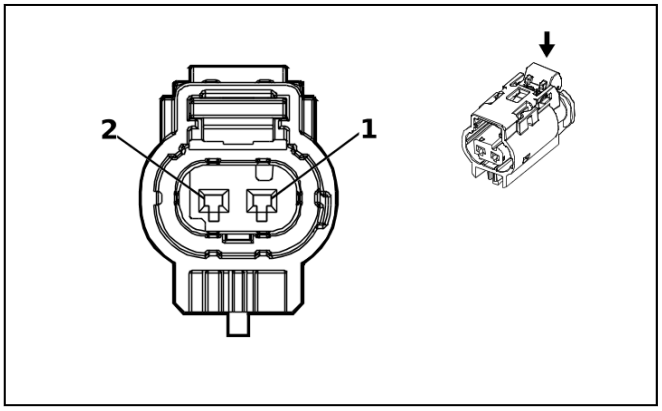
Terminal Part Information

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) BK / GN	(1) 580	(1) Engine Control Sensors Low Reference 2	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN	(2) 3683	(2) Charge Air Cooler Inlet Temperature Sensor Signal	(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)

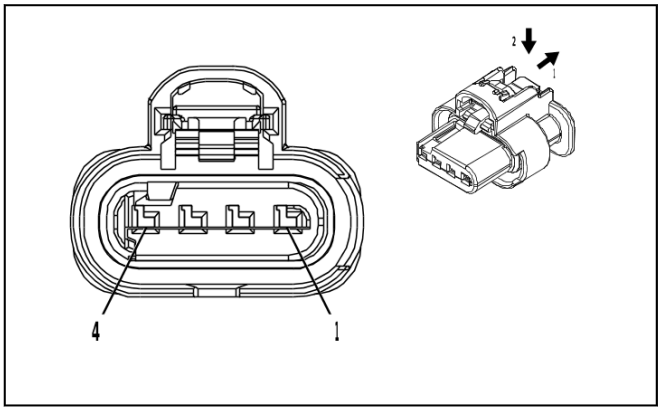
Terminal Part Information

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) BK / BU	(1) 10597	(1) Engine Control Sensors Low Reference 3	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN	(2) 3681	(2) Charge Air Cooler Outlet Temperature Sensor Signal	(2) I	(2) —

B195A Nitrogen Oxides Sensor 1 (KHF)



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)

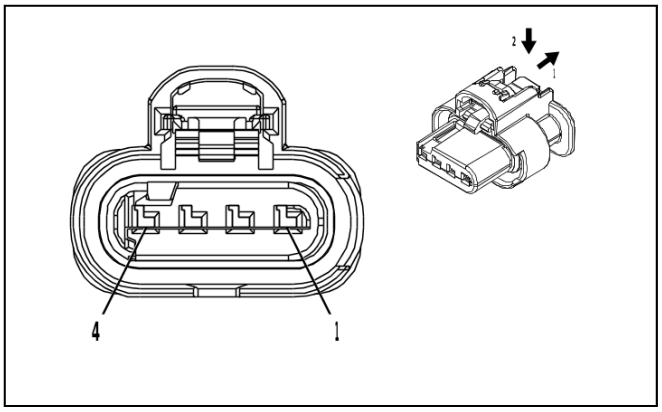
Terminal Part Information

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 (KHF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(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) 0.75	(4) BK / WH	(4) 1151	(4) Signal Ground	(4) I	(4) —

B195A Nitrogen Oxides Sensor 1 (KW5)



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)

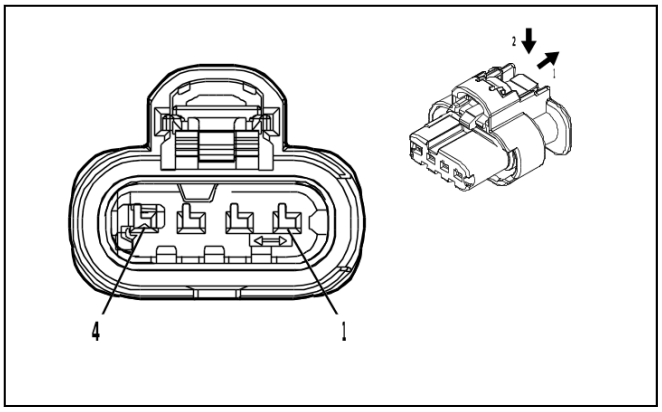
Terminal Part Information

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 (KW5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(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) 0.75	(4) BK / WH	(4) 1151	(4) Signal Ground	(4) I	(4) —

B195B Nitrogen Oxides Sensor 2



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)

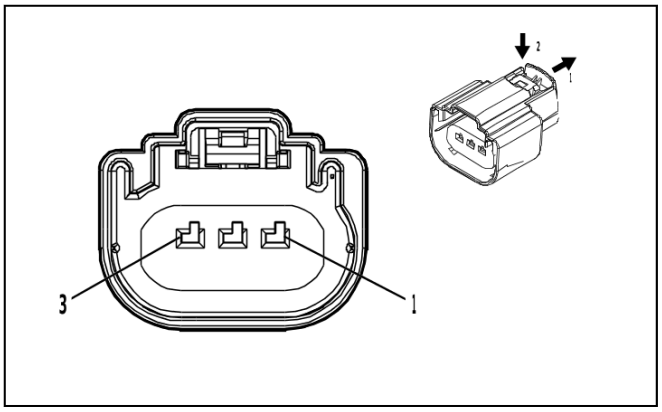
Terminal Part Information

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

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



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)

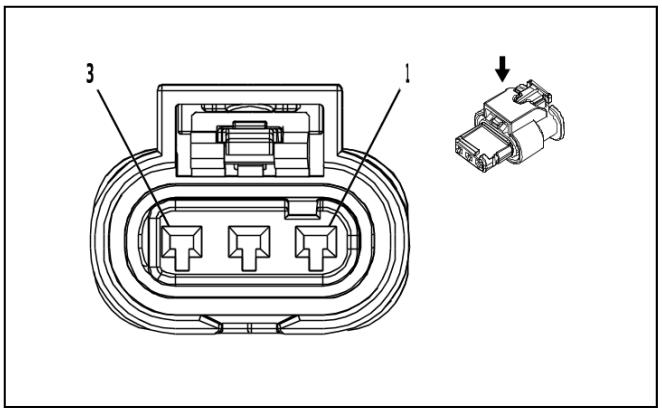
Terminal Part Information

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

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) —

B212 Reductant Tank Fluid Sensor (L5P)



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)

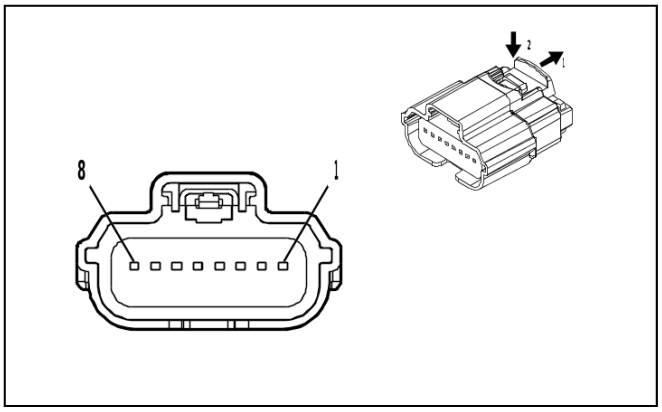
Terminal Part Information

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 (L5P)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 7286	(1) Diesel Exhaust Fluid Sensor Voltage Reference 2	(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) 7284	(3) Diesel Exhaust Fluid Liquid Quality Temperature Signal	(3) I	(3) —

B218L Side Obstacle Detection Control Module - Left



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)

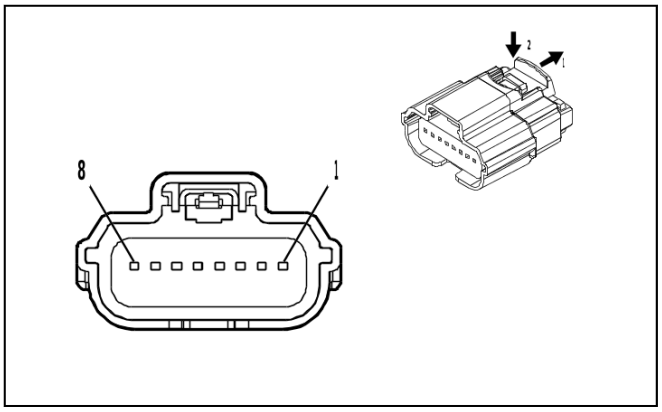
Terminal Part Information

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

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) —
(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



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)

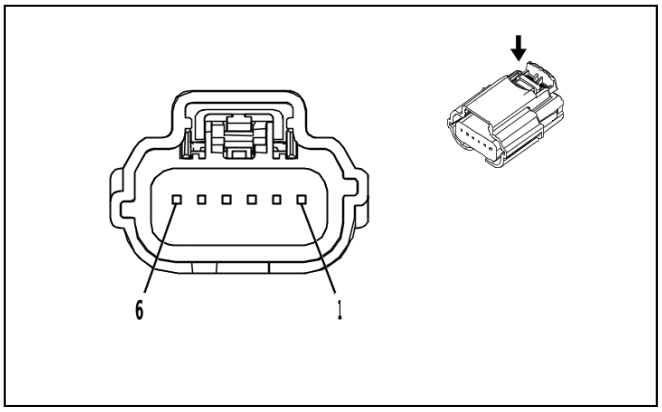
Terminal Part Information

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

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) —

B302 Steering Gear Pressure Sensor



2871903

Connector Part Information

- Harness Type: Power Steering Control Module Wiring Harness
- OEM Connector: 31404-7213
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 64 Series, Sealed(GY)

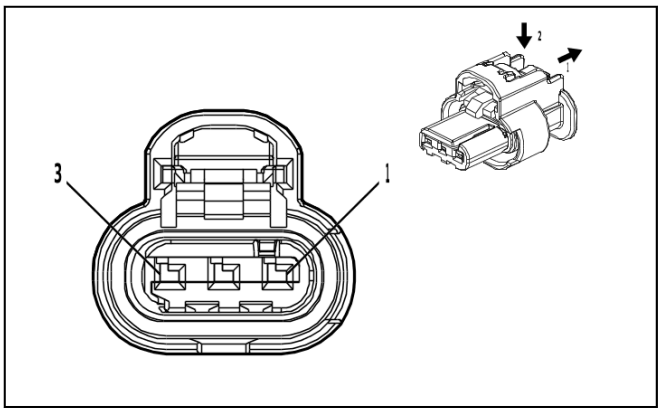
Terminal Part Information

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

B302 Steering Gear Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.5	(2) RD	(2) 3130	(2) Hydrocarbon Injection Pressure Sensor 5V Reference	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN	(3) 3129	(3) Hydrocarbon Injection Pressure Sensor Low Reference	(3) I	(3) —
(4) 4	(4) 0.5	(4) WH	(4) 3128	(4) Hydrocarbon Injection Pressure Sensor Signal	(4) I	(4) —
(5) 5	(5) 0.5	(5) BK	(5) 8023	(5) Hydraulic Pressure Sensor Low Reference	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

B306A Parking Assist Alarm Sensor - Front Left Outer



4581126

Connector Part Information

- Harness Type: Front 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)

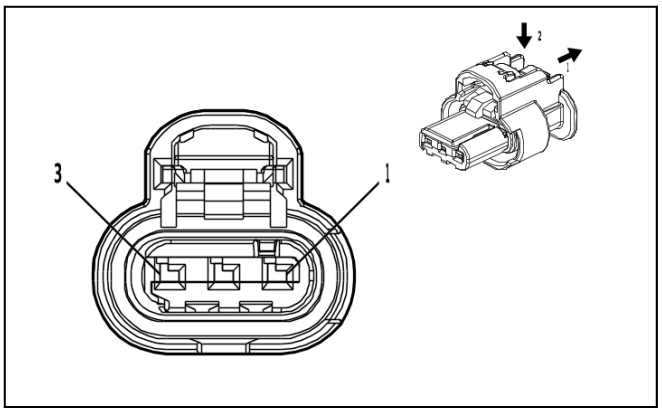
Terminal Part Information

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

B306A Parking Assist Alarm Sensor - Front Left Outer

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



4581126

Connector Part Information

- Harness Type: Front 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)

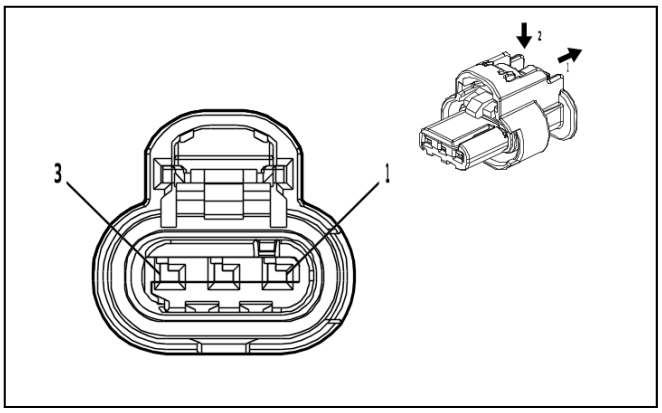
Terminal Part Information

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

B306B Parking Assist Alarm Sensor - Front Left Middle

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



4581126

Connector Part Information

- Harness Type: Front 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)

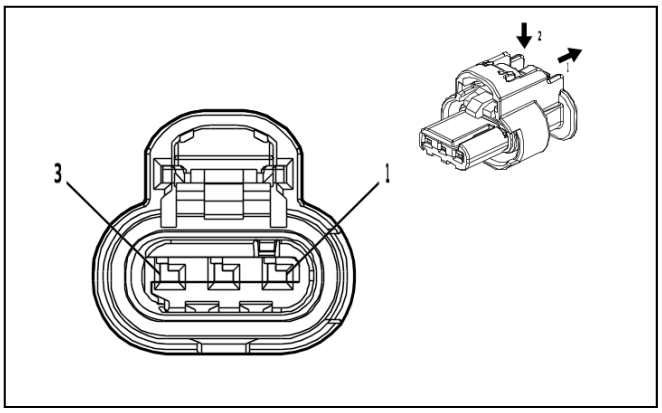
Terminal Part Information

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

B306C Parking Assist Alarm Sensor - Front Right Middle

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



4581126

Connector Part Information

- Harness Type: Front 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)

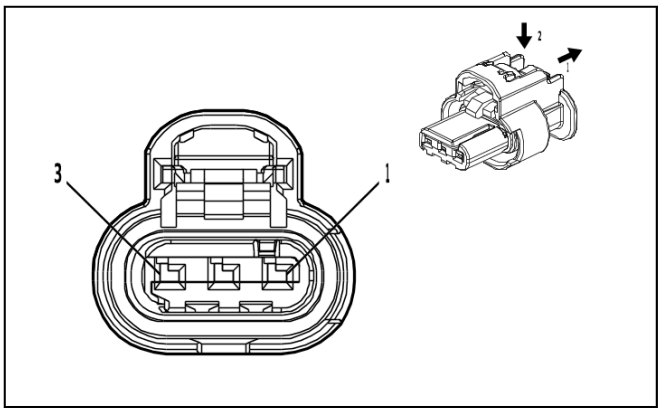
Terminal Part Information

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

B306D Parking Assist Alarm Sensor - Front Right Outer

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



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)

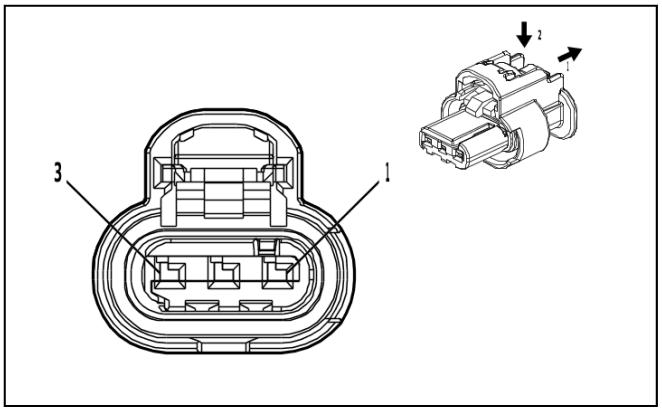
Terminal Part Information

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

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



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)

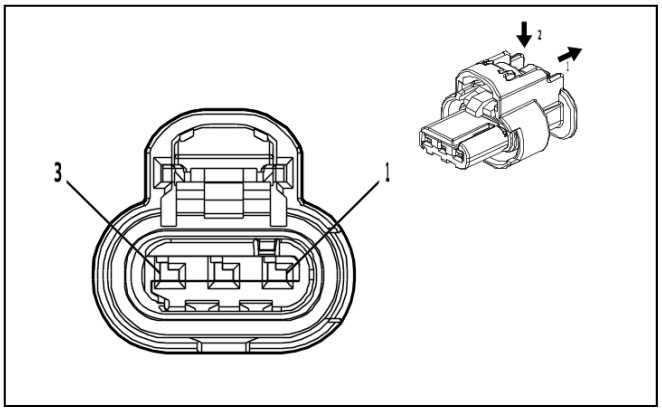
Terminal Part Information

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

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



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)

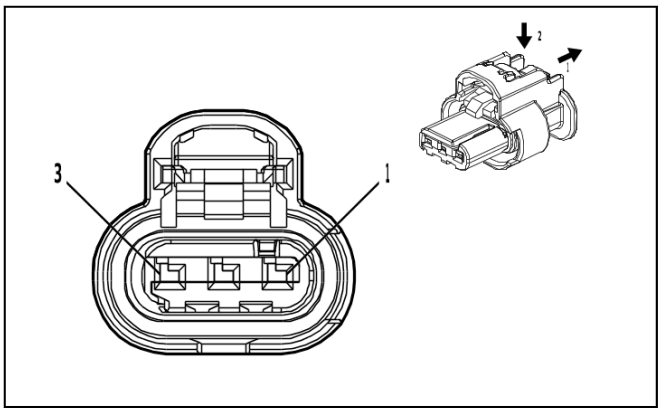
Terminal Part Information

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

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



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)

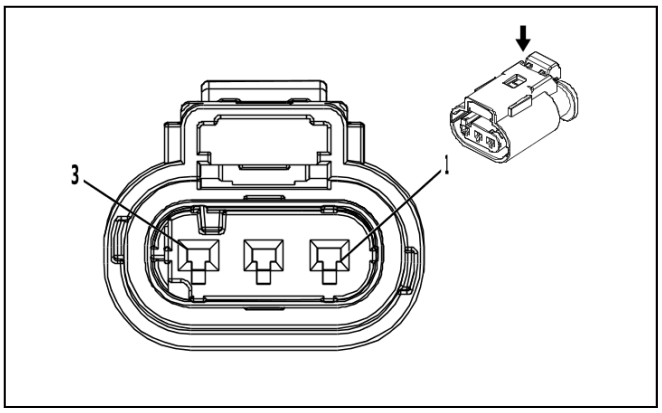
Terminal Part Information

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

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



3240107

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Left
- OEM Connector: 10010344
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

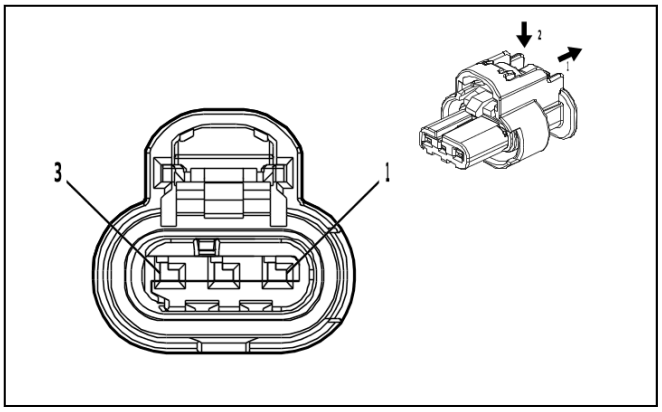
Terminal Part Information

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

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) 10786	(2) Fuel Rail Pressure Sensor SENT 1 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) —

B321 Crankcase Pressure Sensor



4994602

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13514592
- Service Connector: 19371199
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

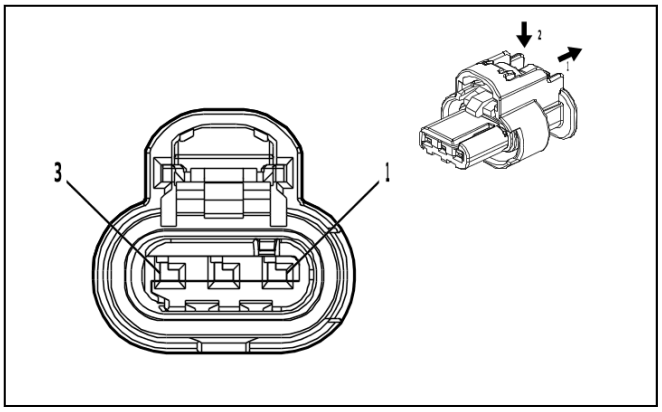
Terminal Part Information

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

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 / GN	(2) 580	(2) Engine Control Sensors Low Reference 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) GY / RD	(3) 10667	(3) Engine Control Sensors 5 Volt Reference	(3) I	(3) —

B345P Exhaust Pressure Differential Sensor - Particulate Filter



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)

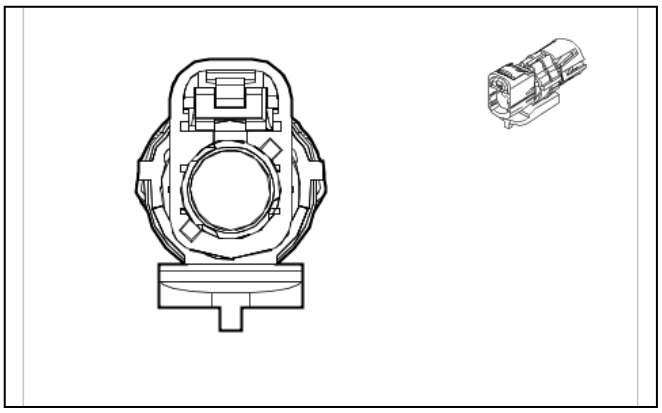
Terminal Part Information

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

B345P Exhaust Pressure Differential Sensor - Particulate Filter

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) WH / RD	(1) 480	(1) Engine Control Vehicle Sensors 5 Volt Reference 1	(1) I	(1) —
(2) 2	(2) 1	(2) WH / BN	(2) 2363	(2) Exhaust Pressure Sensor SENT 1 Signal	(2) I	(2) —
(3) 3	(3) 1	(3) BK / GY	(3) 626	(3) Engine Control Vehicle 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 COAX
- OEM Connector: 35187049
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type, Sealed(BU)

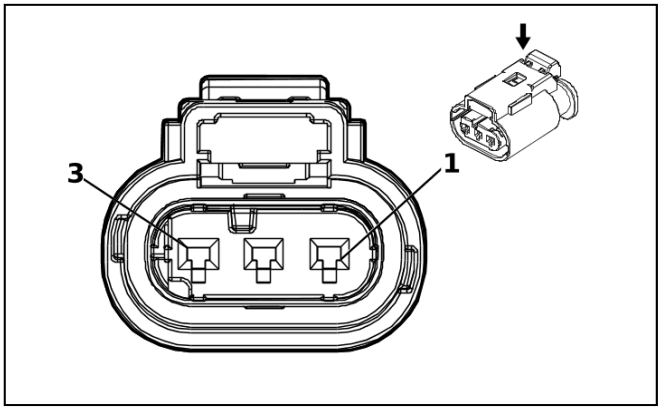
Terminal Part Information

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 (L5P)



5192187

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13503572
- Service Connector: Service by Harness - See Part Catalog
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

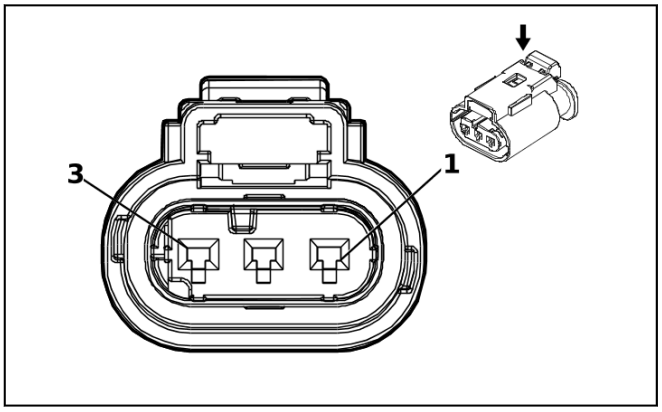
Terminal Part Information

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

B359 Exhaust Gas Temperature Sensor Module (L5P)

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) GY / RD	(3) 10667	(3) Engine Control Sensors 5 Volt Reference	(3) I	(3) —

B359B Exhaust Gas Temperature Sensor Module 2



5192187

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 10010343
- Service Connector: 84777453
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

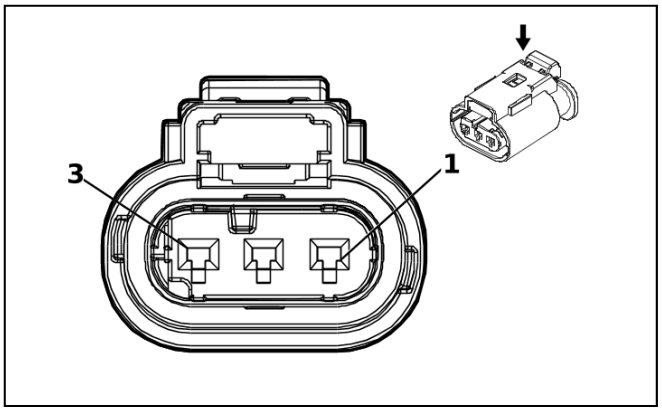
Terminal Part Information

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 / GY	(2) 626	(2) Engine Control Vehicle Sensors Low Reference 1	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE / RD	(3) 10595	(3) Engine Control Vehicle Sensors 5 Volt Reference 2	(3) I	(3) —

B359C Exhaust Gas Temperature Sensor Module 3



5192187

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 10010343
- Service Connector: 84777453
- Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

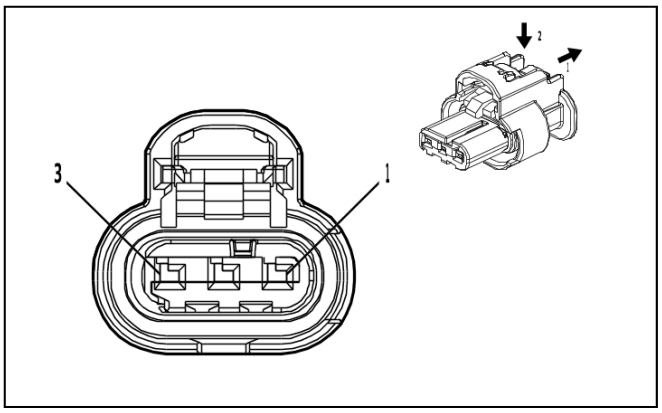
Terminal Part Information

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

B359C Exhaust Gas Temperature Sensor Module 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE	(1) 10291	(1) Exhaust Gas Temperature Sensor SENT 3 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) —
(3) 3	(3) 0.5	(3) YE / RD	(3) 10595	(3) Engine Control Vehicle Sensors 5 Volt Reference 2	(3) I	(3) —

B394 Evaporative Emission Canister Purge System Pressure Sensor



4778903

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 1-2296695-2
- Service Connector: 86792095
- Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

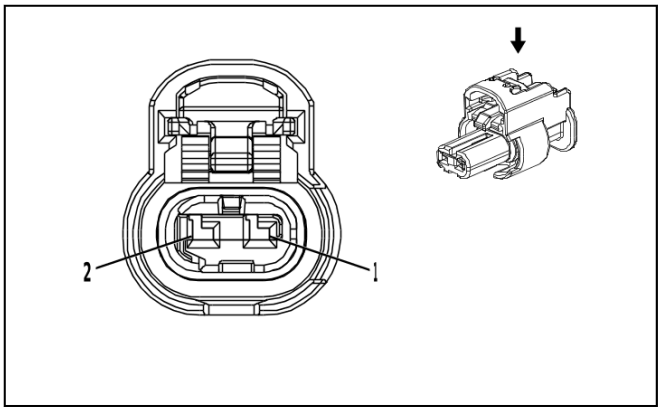
Terminal Part Information

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

B394 Evaporative Emission Canister Purge System Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) YE / GY	(1) 11029	(1) Canister Vapor Pressure Sensor 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) —
(3) 3	(3) 0.5	(3) WH / RD	(3) 480	(3) Engine Control Vehicle Sensors 5 Volt Reference 1	(3) I	(3) —

E2LF Front Side Marker Lamp - Left



4335931

Connector Part Information
- Harness Type: Front Side Marker Lamp Wiring Harness
- OEM Connector: 1-2296694-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

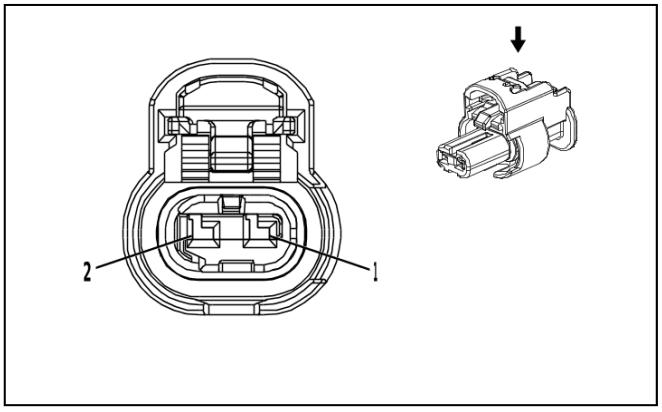
Terminal Part Information

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

E2LF Front Side Marker Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 20	(1) BK	(1) 150	(1) Ground	(1) I	(1) —
(2) 2	(2) 20	(2) WH / YE	(2) 1254	(2) Left Front Park Lamp Control	(2) I	(2) —

E2LRW Rear Side Marker Lamp - Left Wheel Opening Molding



4335931

Connector Part Information
- Harness Type: Rear Lamp Wiring Harness
- OEM Connector: 13512366
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

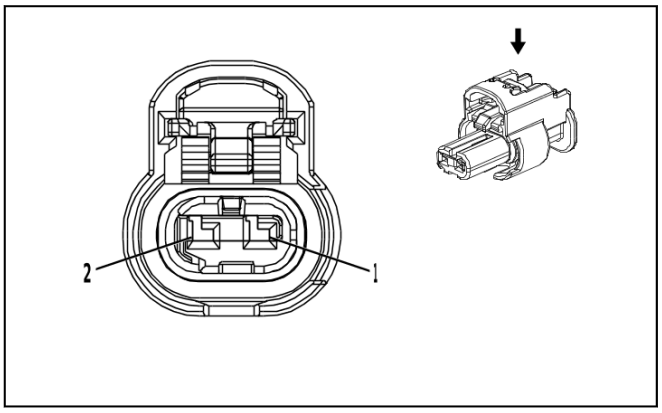
Terminal Part Information

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

E2LRW Rear Side Marker Lamp - Left Wheel Opening Molding

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 20	(1) BK	(1) 1850	(1) Ground	(1) I	(1) —
(2) 2	(2) 20	(2) BN / GN	(2) 4246	(2) Identification Lamp Control	(2) I	(2) —

E2RF Front Side Marker Lamp - Right



4335931

Connector Part Information
- Harness Type: Front Side Marker Lamp Wiring Harness
- OEM Connector: 1-2296694-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

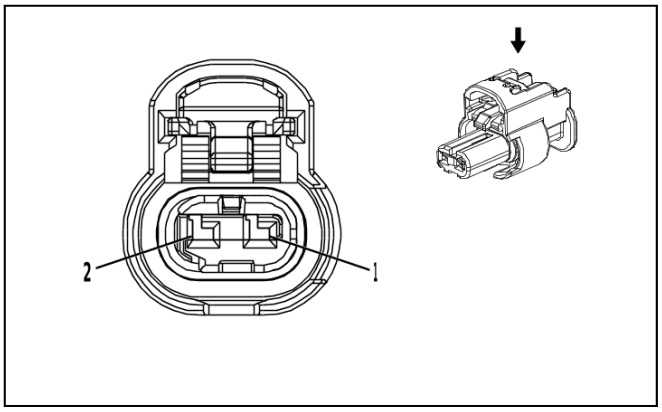
Terminal Part Information

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

E2RF Front Side Marker Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 20	(1) BK	(1) 650	(1) Ground	(1) I	(1) —
(2) 2	(2) 20	(2) BU / GN	(2) 1253	(2) Right Front Park Lamp Control	(2) I	(2) —

E2RRW Rear Side Marker Lamp - Right Wheel Opening Molding



4335931

Connector Part Information
- Harness Type: Rear Lamp Wiring Harness
- OEM Connector: 13512366
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

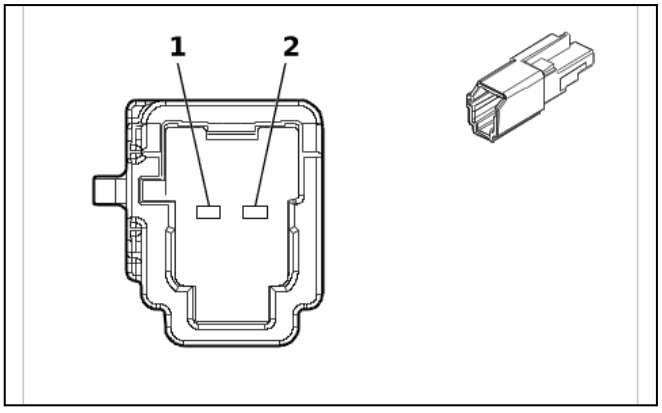
Terminal Part Information

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

E2RRW Rear Side Marker Lamp - Right Wheel Opening Molding

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 20	(1) BK	(1) 1850	(1) Ground	(1) I	(1) —
(2) 2	(2) 20	(2) BN / GN	(2) 4246	(2) Identification Lamp Control	(2) II	(2) —

E3A Front Clearance Lamp - Roof Left Outer



6529124

Connector Part Information
- Harness Type: Roof Wiring Harness
- OEM Connector: 6099-0610
- Service Connector: 85725003
- Description: 2-Way M 1.2 MBS Series(BK)

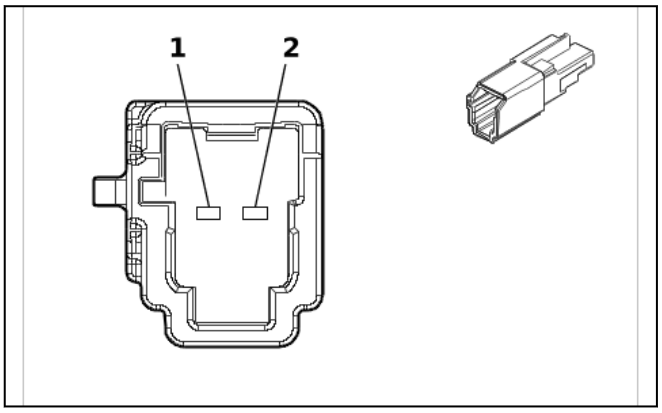
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

E3A Front Clearance Lamp - Roof Left Outer

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1050	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 4246	(2) Identification Lamp Control	(2) I	(2) —

E3E Front Clearance Lamp - Roof Right Outer



6529124

Connector Part Information

- Harness Type: Roof Wiring Harness
- OEM Connector: 6099-0610
- Service Connector: 85725003
- Description: 2-Way M 1.2 MBS Series(BK)

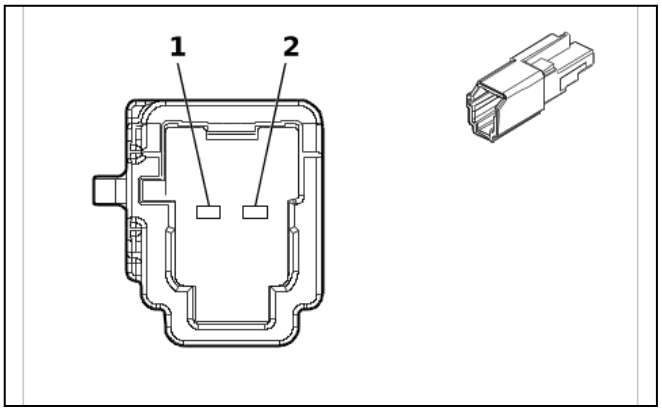
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

E3E Front Clearance Lamp - Roof Right Outer

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1050	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 4246	(2) Identification Lamp Control	(2) I	(2) —

E3FA Front Identification Lamp



6529124

Connector Part Information
- Harness Type: Roof Wiring Harness
- OEM Connector: 6099-0610
- Service Connector: 85725003
- Description: 2-Way M 1.2 MBS Series(BK)

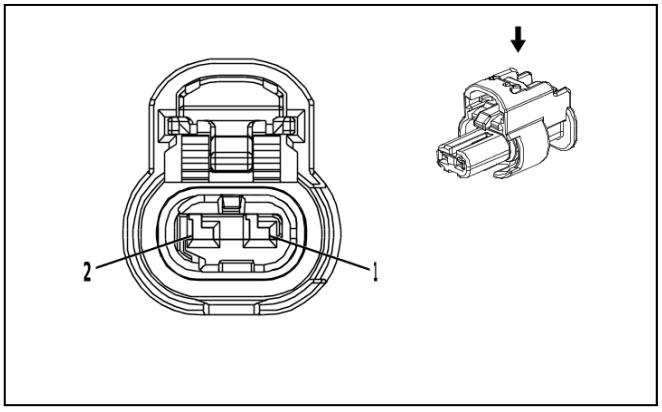
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

E3FA Front Identification Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1050	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 4246	(2) Identification Lamp Control	(2) I	(2) —

E3LF Rear Clearance Lamp - Fender Left Front



4335931

Connector Part Information
- Harness Type: Rear License Plate Lamp Wiring Harness Extension Harness - Left
- OEM Connector: 1-2296694-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

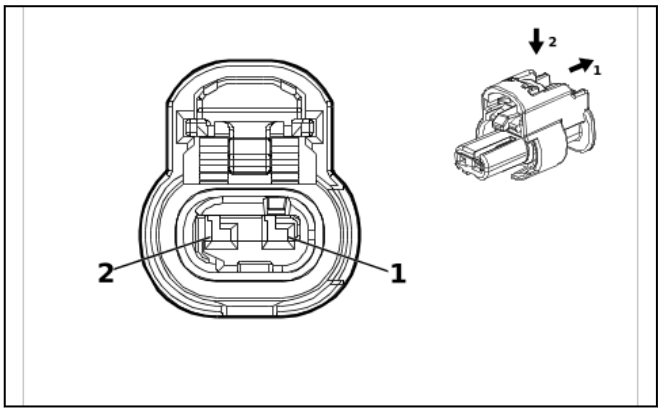
Terminal Part Information

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

E3LF Rear Clearance Lamp - Fender Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1850	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 4246	(2) Identification Lamp Control	(2) I	(2) —

E3LR Rear Clearance Lamp - Fender Left Rear



4649903

Connector Part Information

- Harness Type: Rear License Plate Lamp Wiring Harness Extension Harness - Left
- OEM Connector: 1-2296694-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

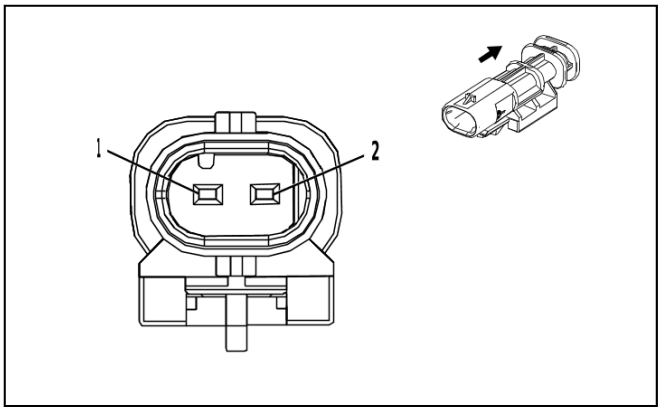
Terminal Part Information

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

E3LR Rear Clearance Lamp - Fender Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1850	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 4246	(2) Identification Lamp Control	(2) I	(2) —

E3RA Rear Identification Lamp



2474755

Connector Part Information
- Harness Type: Rear License Plate Lamp Wiring Harness Extension Harness - Right
- OEM Connector: 2203314-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(BK)

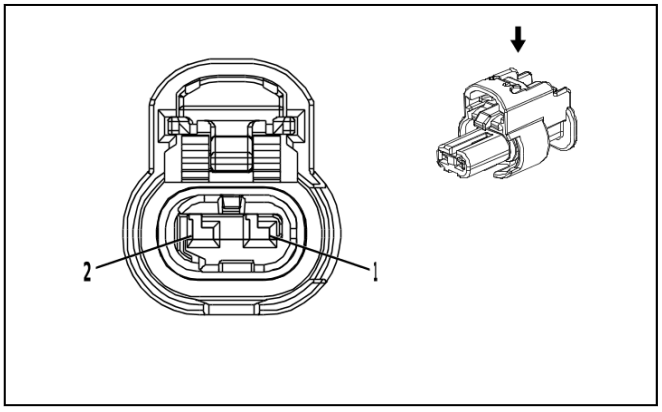
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

E3RA Rear Identification Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1850	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 4246	(2) Identification Lamp Control	(2) I	(2) —

E3RF Rear Clearance Lamp - Fender Right Front



4335931

Connector Part Information
- Harness Type: Rear License Plate Lamp Wiring Harness Extension Harness - Right
- OEM Connector: 1-2296694-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

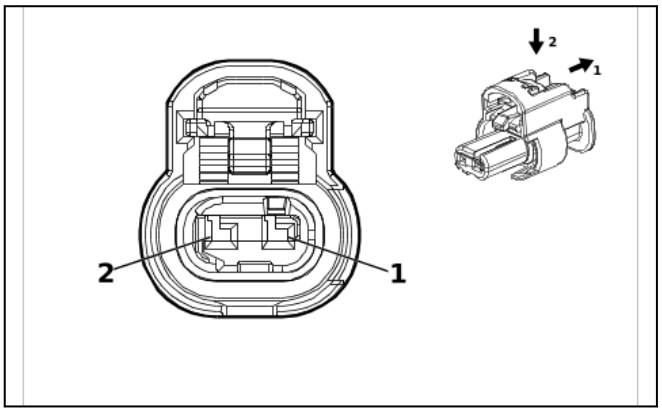
Terminal Part Information

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

E3RF Rear Clearance Lamp - Fender Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1850	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 4246	(2) Identification Lamp Control	(2) I	(2) —

E3RR Rear Clearance Lamp - Fender Right Rear



4649903

Connector Part Information

- Harness Type: Rear License Plate Lamp Wiring Harness Extension Harness - Right
- OEM Connector: 1-2296694-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

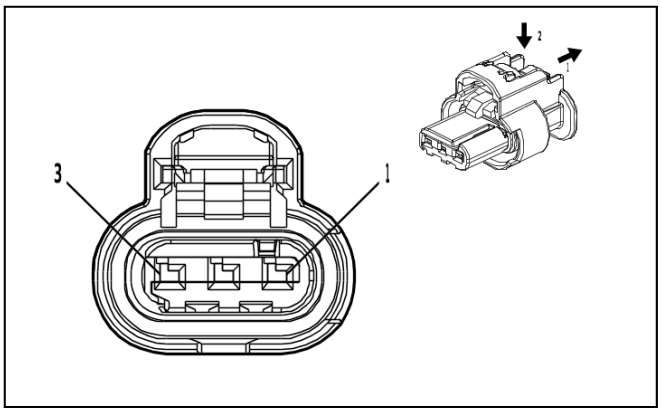
Terminal Part Information

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

E3RR Rear Clearance Lamp - Fender Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1850	(1) Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 4246	(2) Identification Lamp Control	(2) I	(2) —

E6A High Mount Stop and Cargo Lamp (- U95)



4581126

Connector Part Information

- Harness Type: Inside Rearview Mirror 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)

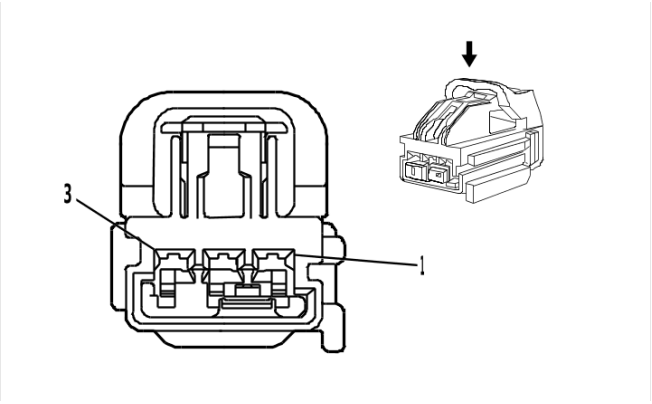
Terminal Part Information

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

E6A High Mount Stop and Cargo Lamp (- U95)

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) - UVO
	(1) 0.35	(1) WH / VT	(1) 1430	(1) Exterior Courtesy Lamp Control	(1) I	(1) UVO
(2) 2	(2) 0.5	(2) BN / YE	(2) 820	(2) Center High Mounted Stop Lamp Supply Voltage	(2) I	(2) - UVO
	(2) 0.35	(2) VT / WH	(2) 820	(2) Center High Mounted Stop Lamp Supply Voltage	(2) I	(2) UVO
(3) 3	(3) 0.5	(3) BK	(3) 1050	(3) Ground	(3) I	(3) - UVO
	(3) 0.35	(3) BK	(3) 1050	(3) Ground	(3) I	(3) UVO

E6A High Mount Stop and Cargo Lamp (U95)



1787799

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)

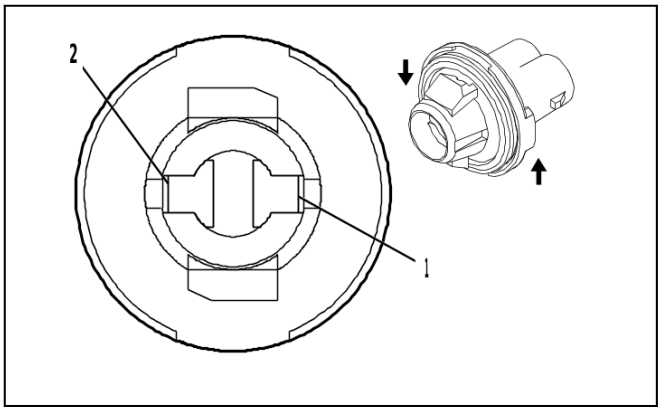
Terminal Part Information

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

E6A High Mount Stop and Cargo Lamp (U95)

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) BU / BK	(2) 1053	(2) Center High Mounted Stop Lamp Control 3	(2) I	(2) —
(3) 3	(3) 1	(3) BK	(3) 1050	(3) Ground	(3) I	(3) —

E7 Rear License Plate Lamp (ZW9)



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)

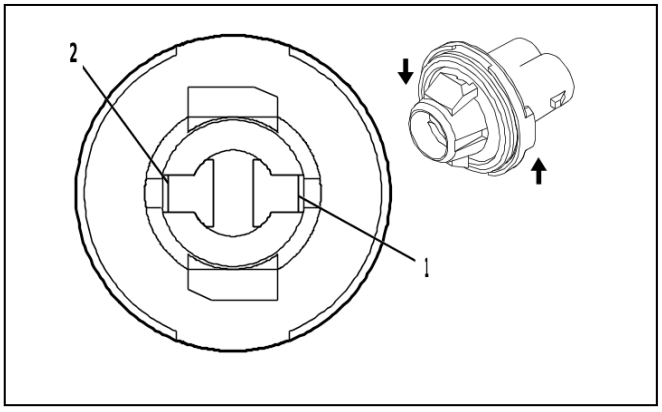
Terminal Part Information

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

E7 Rear License Plate Lamp (ZW9)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) GN / YE	(1) 6846	(1) Rear License Plate Lamp Control	(1) I	(1) —
(2) 2	(2) —	(2) BK	(2) 1850	(2) Ground	(2) I	(2) —

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)

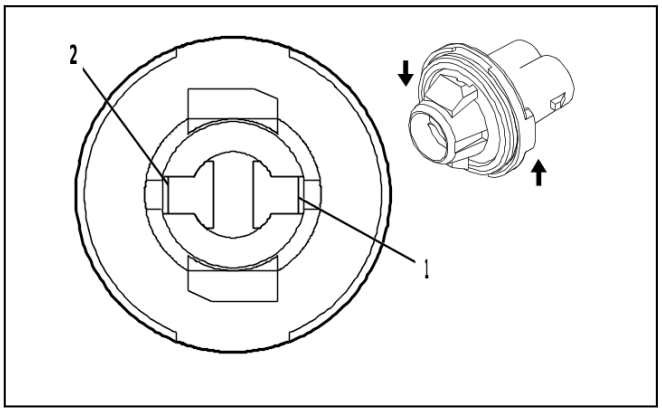
Terminal Part Information

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)

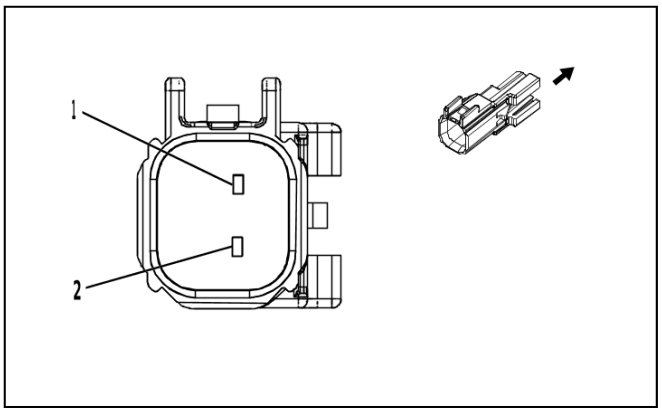
Terminal Part Information

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) —

E8ZL Assist Step Lamp - Left (BRS)



3271068

Connector Part Information
- Harness Type: Left Running Board Harness
- OEM Connector: 13583926
- Service Connector: Service by Harness - See Part Catalog
- Description: 30-Way F 150, 280 GT FBT Series(BK)

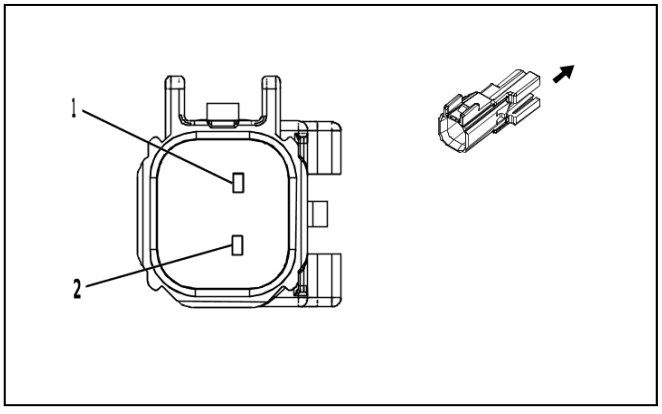
Terminal Part Information

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

E8ZL Assist Step Lamp - Left (BRS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 4748	(1) Left Running Board Step Courtesy Lamp Control	(1) I	(1) BRS
(2) 2	(2) 0.5	(2) BK	(2) 1850	(2) Ground	(2) I	(2) BRS

E8ZR Assist Step Lamp - Right (BRS)



3271068

Connector Part Information
- Harness Type: Right Running Board Harness
- OEM Connector: 13503926
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.5 Series, Sealed(BK)

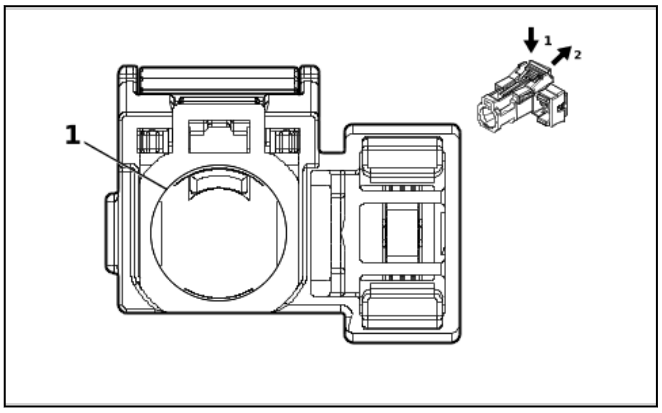
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-3 (GY)	No Tool Required

E8ZR Assist Step Lamp - Right (BRS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / VT	(1) 4749	(1) Right Running Board Step Courtesy Lamp Control	(1) I	(1) BRS
(2) 2	(2) 0.5	(2) BK	(2) 1850	(2) Ground	(2) I	(2) BRS

E12A Glow Plug 1



6166047

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13551815
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way F RK4 Receptacle(BK)

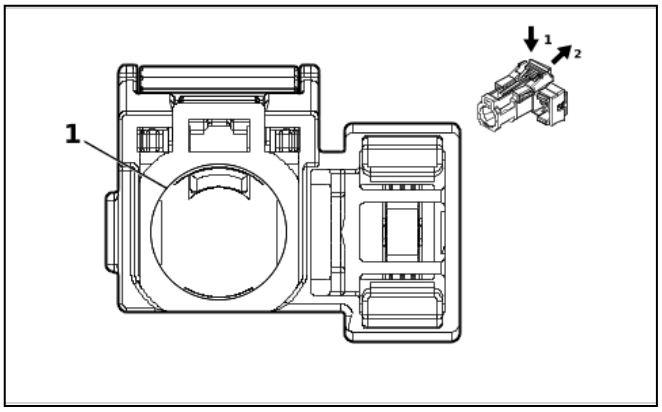
Terminal Part Information

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 / BU	(1) 1581	(1) Glow Plug 1 Control	(1) I	(1) —

E12B Glow Plug 2



6166047

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13551815
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way F RK4 Receptacle(BK)

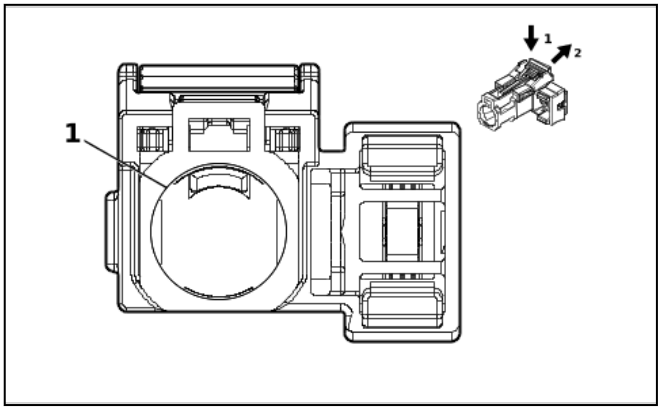
Terminal Part Information

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 / BN	(1) 1582	(1) Glow Plug 2 Control	(1) I	(1) —

E12C Glow Plug 3



6166047

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13551815
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way F RK4 Receptacle(BK)

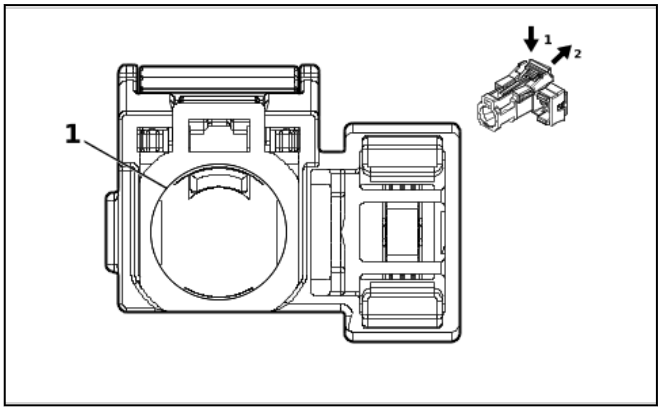
Terminal Part Information

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



6166047

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 13551815
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way F RK4 Receptacle(BK)

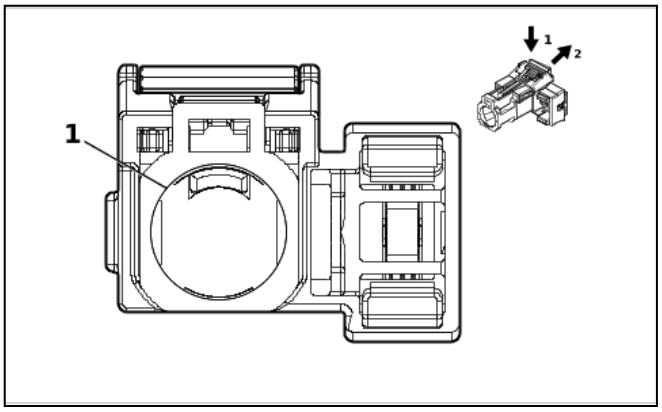
Terminal Part Information

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



6166047

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13551815
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way F RK4 Receptacle(BK)

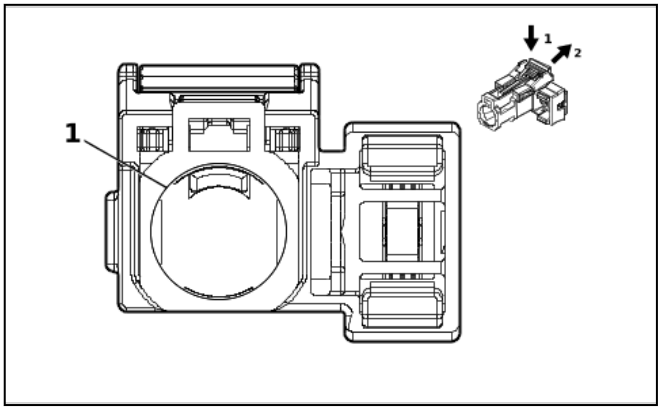
Terminal Part Information

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



6166047

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13551815
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way F RK4 Receptacle(BK)

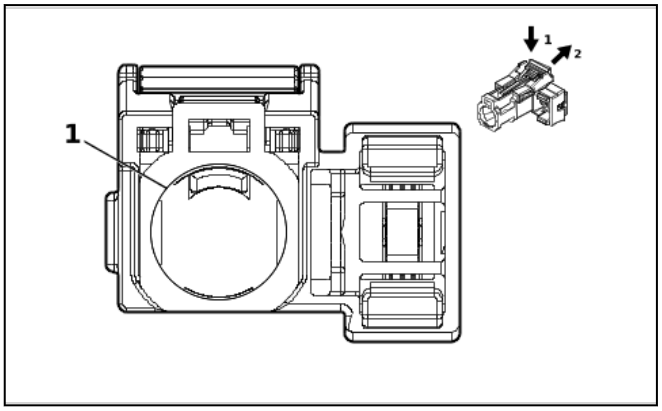
Terminal Part Information

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 / VT	(1) 1586	(1) Glow Plug 6 Control	(1) I	(1) —

E12G Glow Plug 7



6166047

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 13551815
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way F RK4 Receptacle(BK)

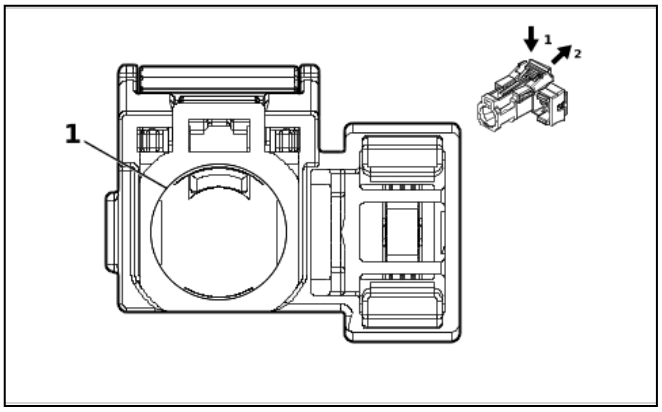
Terminal Part Information

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

E12G Glow Plug 7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) WH / BK	(1) 1587	(1) Glow Plug 7 Control	(1) I	(1) —

E12H Glow Plug 8



6166047

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13551815
- Service Connector: Service by Cable Assembly - See Part Catalog
- Description: 1-Way F RK4 Receptacle(BK)

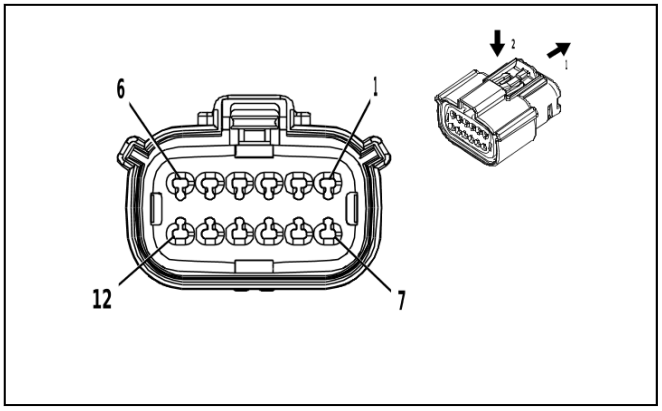
Terminal Part Information

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

E12H Glow Plug 8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) WH / BU	(1) 1588	(1) Glow Plug 8 Control	(1) I	(1) —

E13LA Front Headlamp - Left X1



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)

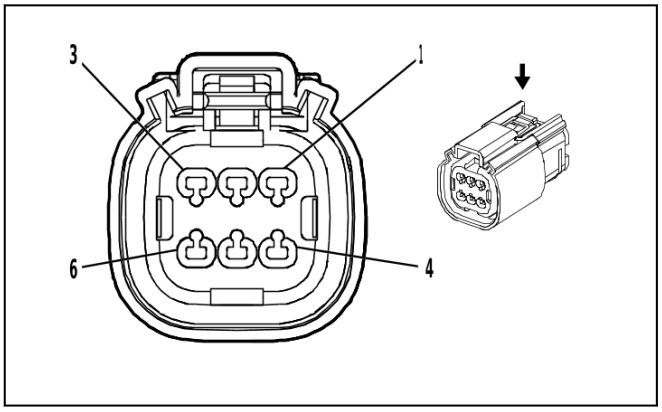
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217

E13LA Front Headlamp - Left X1

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) 0.5	(3) YE	(3) 712	(3) Left Headlamp Low Beam Control	(3) I	(3) —
(4) 4	(4) 0.5	(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	—	—

E13LA Front Headlamp - Left X2



4974077

Connector Part Information

- Harness Type: Front Side Marker Lamp Wiring Harness
- OEM Connector: 33472-0654
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.5 MX Series, Sealed(GY)

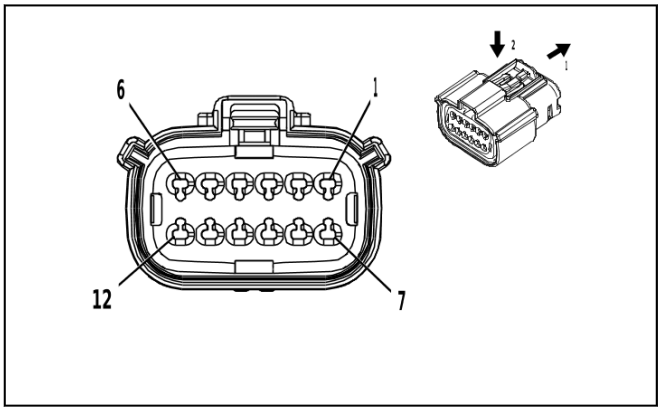
Terminal Part Information

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

E13LA Front Headlamp - Left X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 20	(1) BK	(1) 150	(1) Ground	(1) I	(1) —
2 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 20	(5) WH / YE	(5) 1254	(5) Left Front Park Lamp Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

E13RA Front Headlamp - Right X1



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

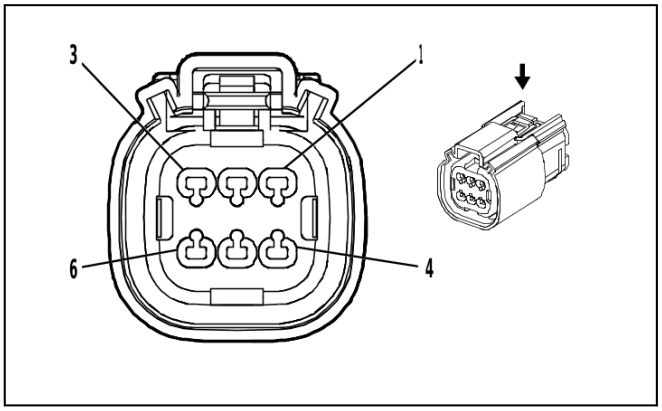
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217

E13RA Front Headlamp - Right X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 650	(1) Ground	(1) I	(1) —
(2) 2	(2) 1.5	(2) RD / YE	(2) 740	(2) Battery Positive Voltage	(2) I	(2) —
(3) 3	(3) 0.5	(3) YE	(3) 312	(3) Right Headlamp Low Beam Control	(3) I	(3) —
(4) 4	(4) 0.5	(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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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	—	—

E13RA Front Headlamp - Right X2



4974077

Connector Part Information

- Harness Type: Front Side Marker Lamp Wiring Harness
- OEM Connector: 33472-0654
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.5 MX Series, Sealed(GY)

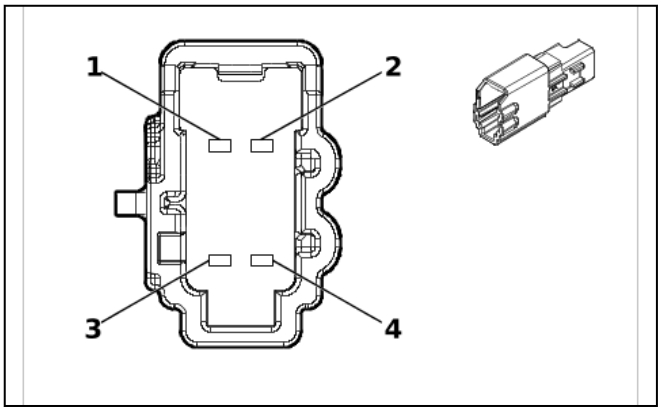
Terminal Part Information

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

E13RA Front Headlamp - Right X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 20	(1) BK	(1) 650	(1) Ground	(1) I	(1) —
2 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 20	(5) BU / GN	(5) 1253	(5) Right Front Park Lamp Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

E14A Front Seat Back Heater - Driver



5423974

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 6098-9049
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(GY)

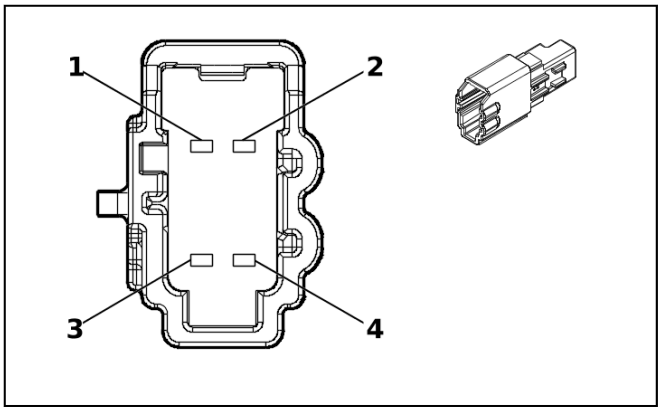
Terminal Part Information

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

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



5360963

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 6098-9046
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(BK)

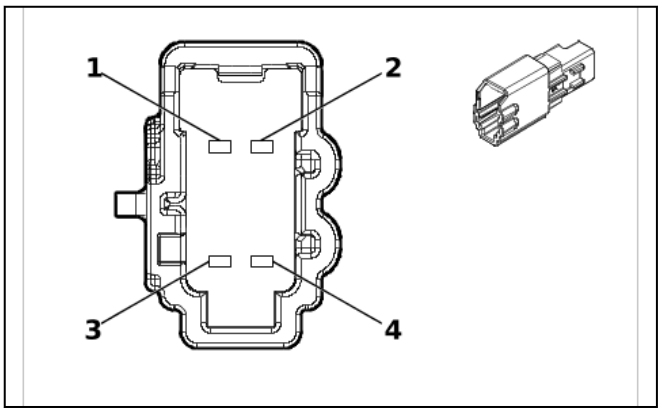
Terminal Part Information

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

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)

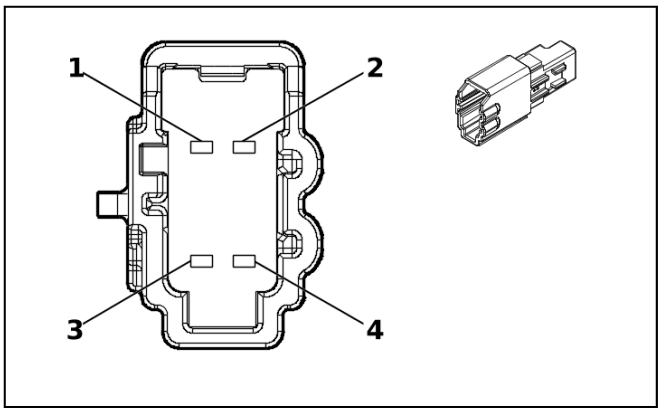
Terminal Part Information

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)

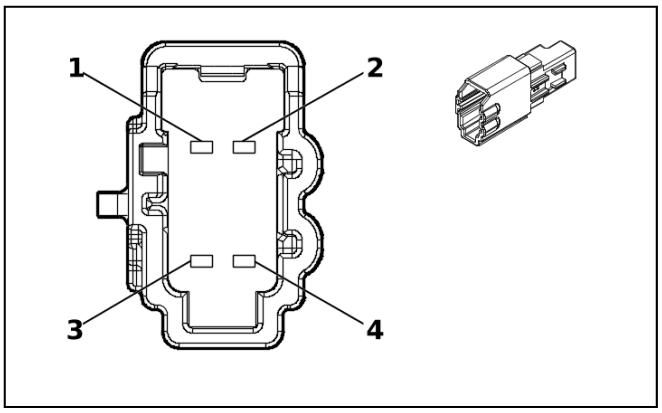
Terminal Part Information

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)

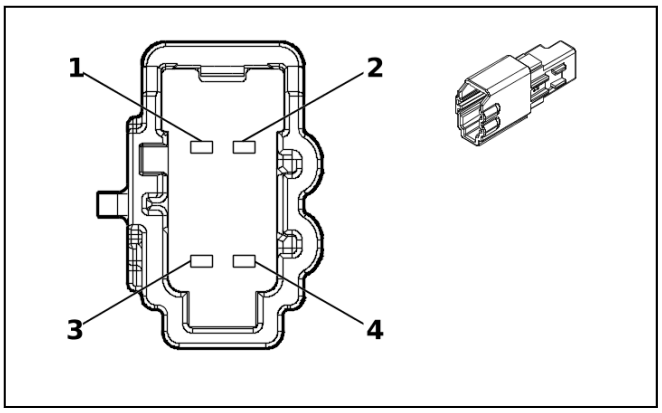
Terminal Part Information

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)

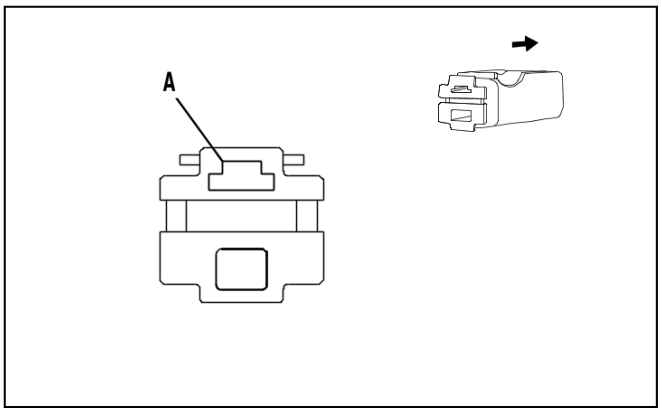
Terminal Part Information

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)

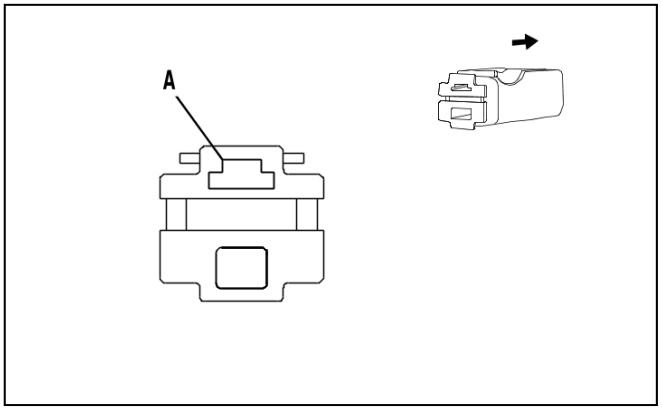
Terminal Part Information

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)

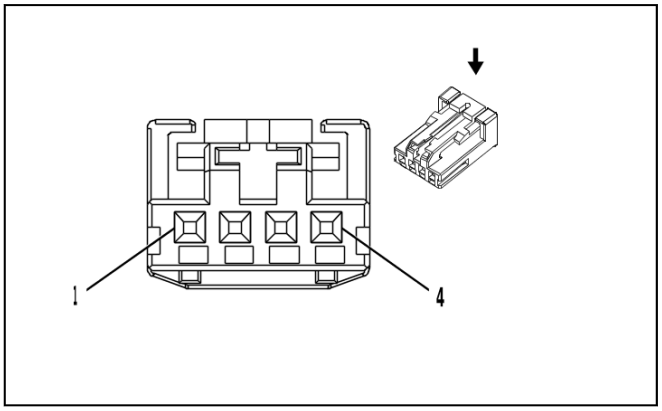
Terminal Part Information

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	—

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)

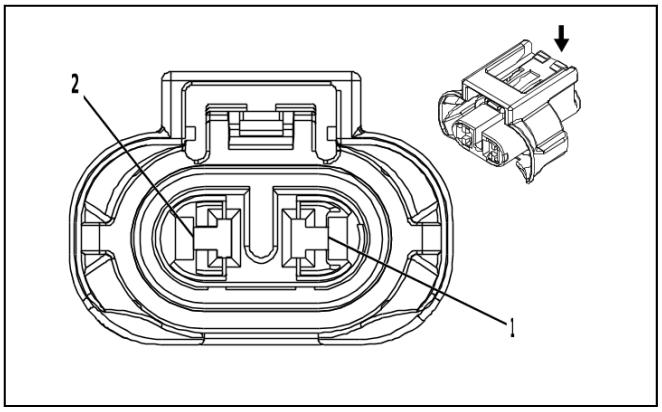
Terminal Part Information

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) 1350	(1) 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



3404058

Connector Part Information
- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 13930730
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 APEX Series, Sealed(BK)

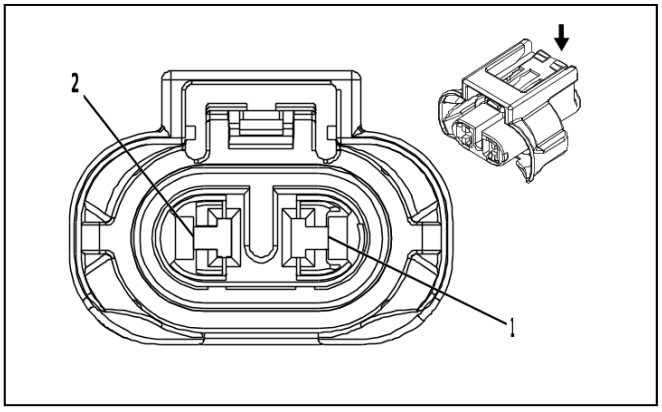
Terminal Part Information

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

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



3404058

Connector Part Information
- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 13930730
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 APEX Series, Sealed(BK)

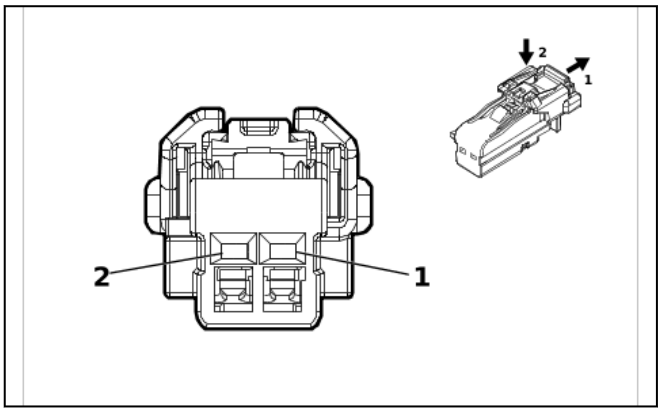
Terminal Part Information

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

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: 6098-8990
- Service Connector: 84867147
- Description: 2-Way F 1.2 MCON Series(BN)

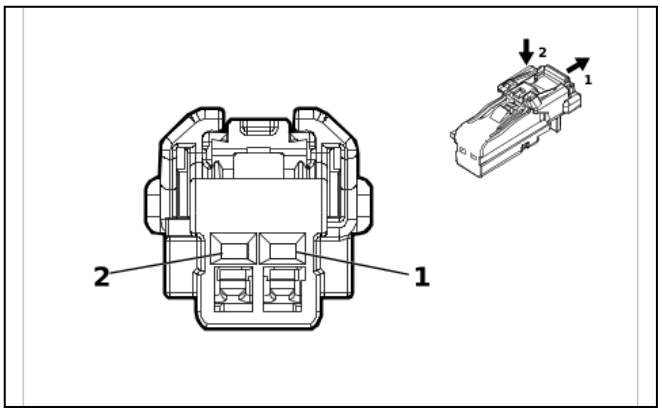
Terminal Part Information

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

E31L Sunshade Mirror Lamp - 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) —

E31R Sunshade Mirror Lamp - 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)

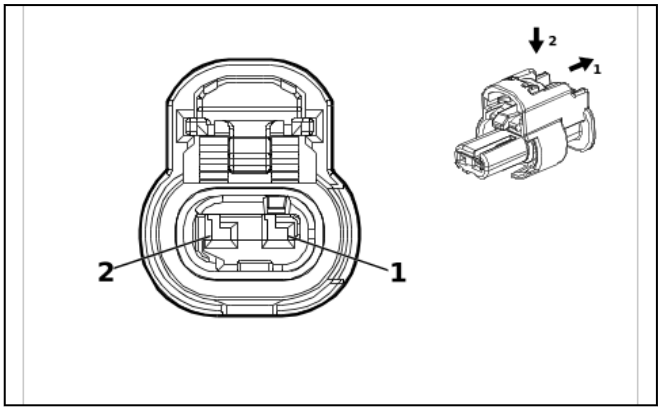
Terminal Part Information

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

E31R Sunshade Mirror Lamp - 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) —

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)

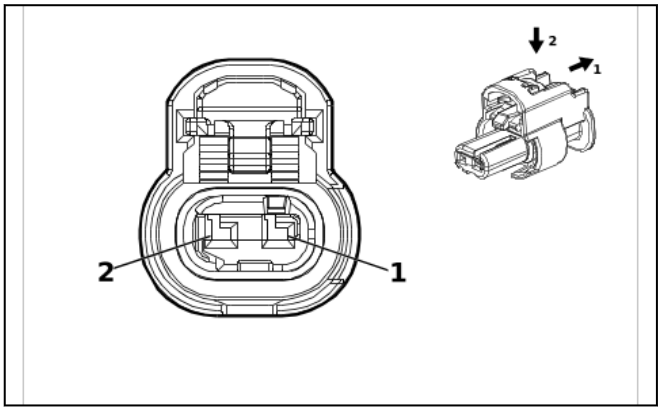
Terminal Part Information

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) 18	(1) BU	(1) 7762	(1) Cargo Lamp Control	(1) I	(1) —
(2) 2	(2) 18	(2) BK	(2) 1951	(2) Signal Ground	(2) I	(2) —

E33R Cargo Lamp - Right



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)

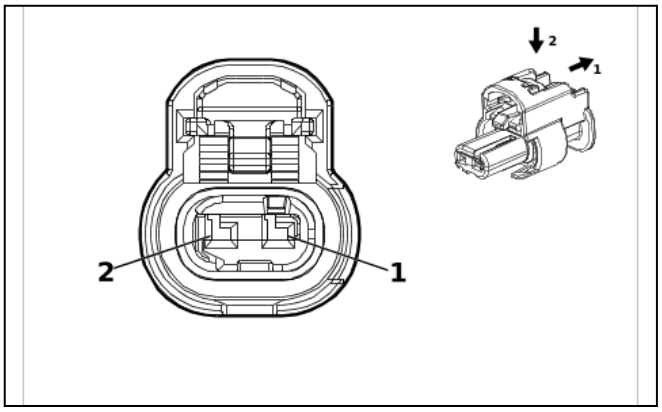
Terminal Part Information

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

E33R Cargo Lamp - Right

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) —

E33TH Rear Closure Auxiliary Signal Lamp



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)

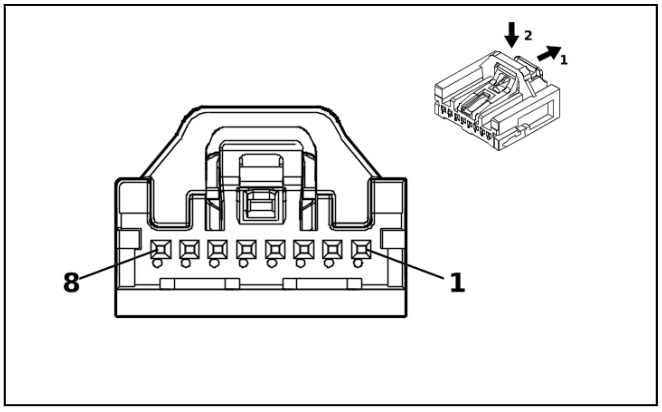
Terminal Part Information

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

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)

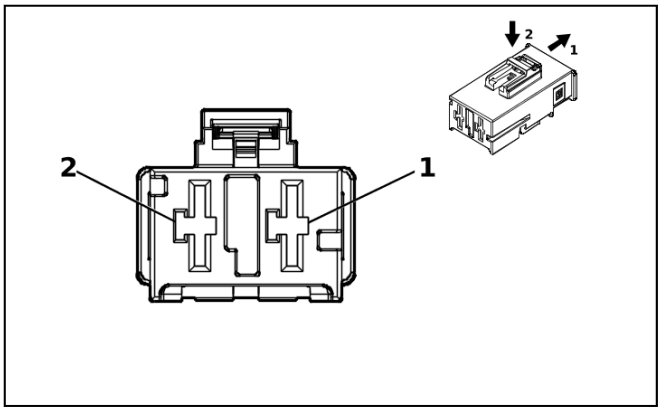
Terminal Part Information

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)

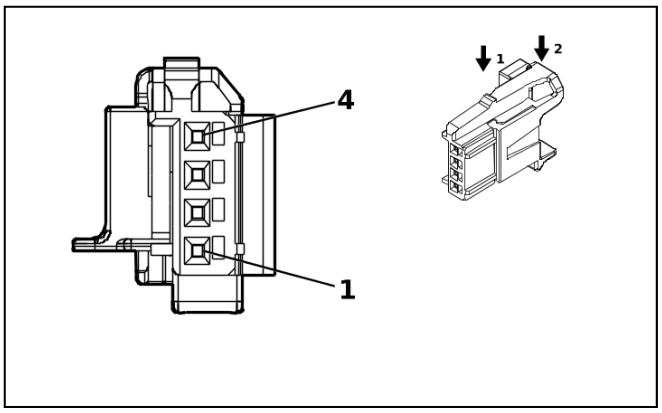
Terminal Part Information

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) 0.35	(3) BU (3) GN / VT	(3) 2852 (3) 2852	(3) Body Control Module LIN Bus 6 (3) Body Control Module LIN Bus 6	(3) I (3) I	(3) — (3) —
(4) 4	(4) 0.35 (4) 0.35	(4) BK (4) BK	(4) 1050 (4) 51	(4) Ground (4) Signal Ground	(4) I (4) I	(4) — (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

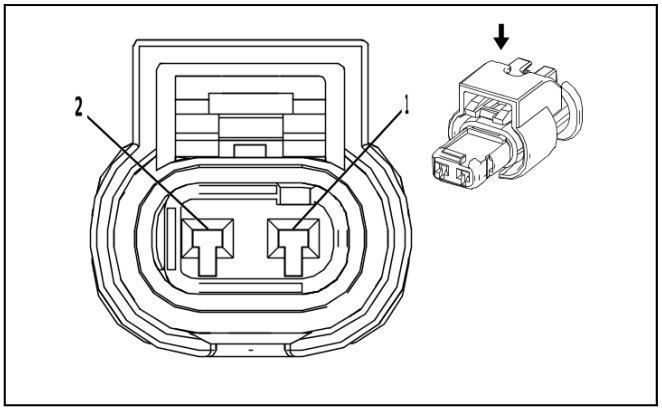
Terminal Part Information

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) —

E52 Reductant Heater 2 - Injector Supply Pipe (L5P)



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)

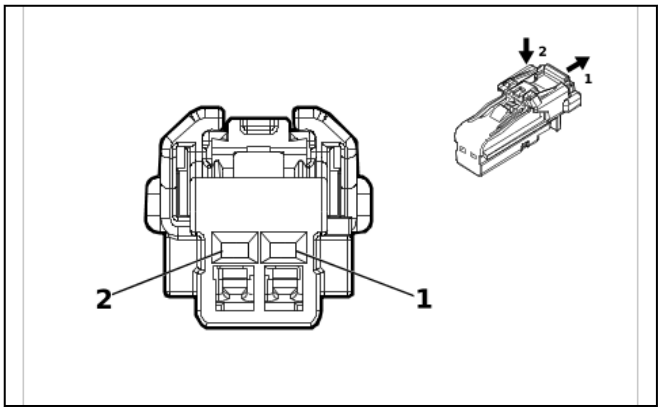
Terminal Part Information

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 (L5P)

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 - Left
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

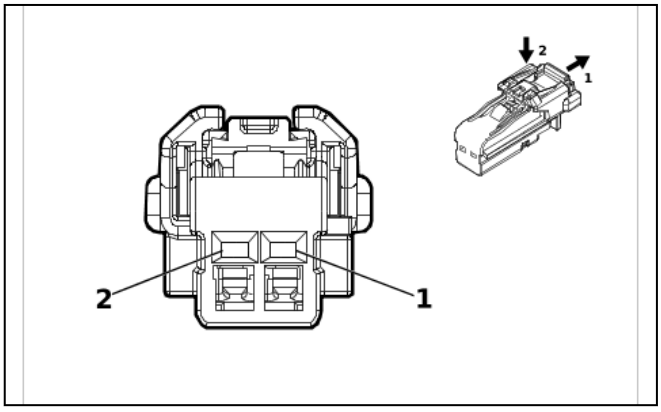
Terminal Part Information

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 - Right
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

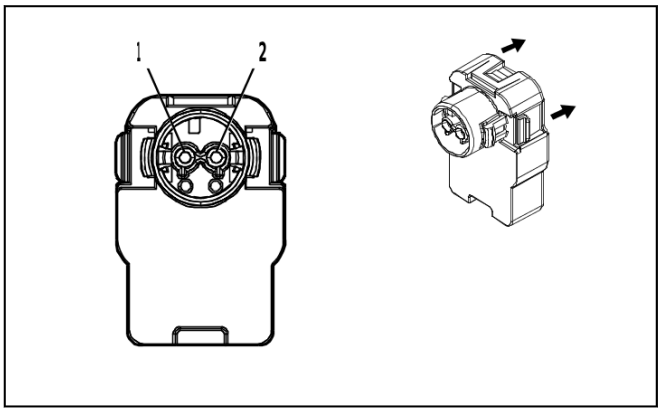
Terminal Part Information

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) 0.75	(2) BK	(2) 1350	(2) Ground	(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)

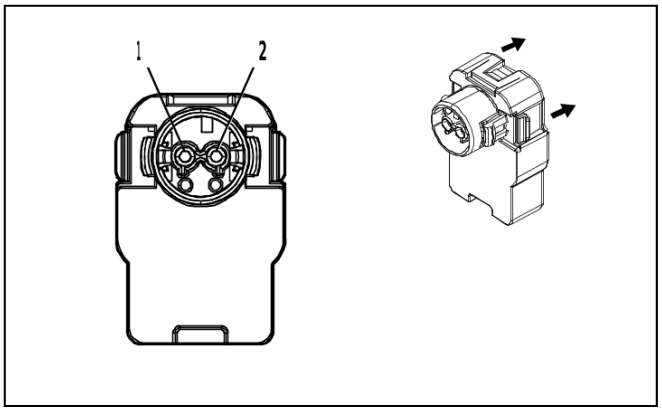
Terminal Part Information

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

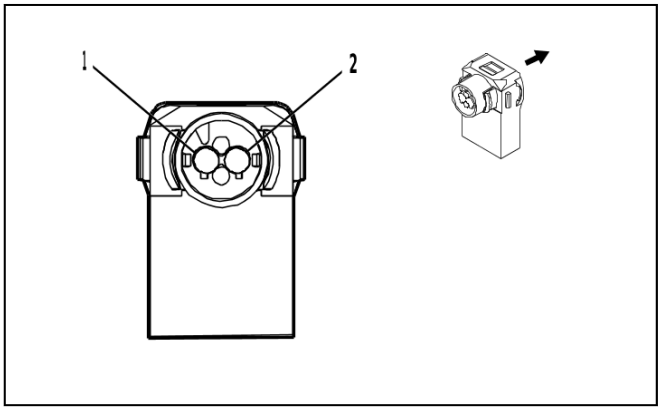
Terminal Part Information

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) —

F105L Front and Rear Row Roof Rail Airbag - Left



4679778

Connector Part Information
- Harness Type: Body Wiring Harness
- OEM Connector: 35504154
- Service Connector: 85666124
- Description: 2-Way F ABX-5 Series(GY with YE Cover)

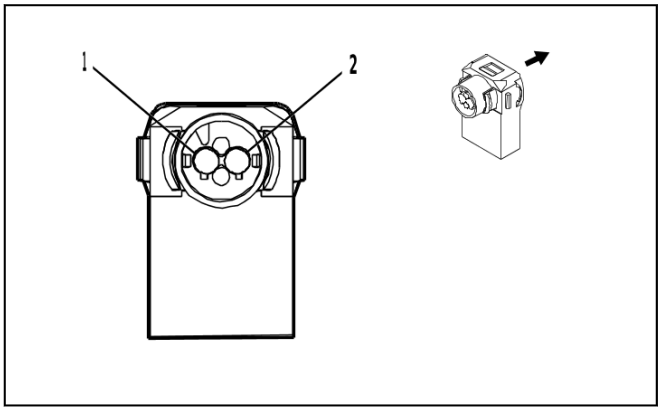
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F105L Front and Rear 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) —

F105LF Front Row Roof Rail Airbag - Left



4679778

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35504154
- Service Connector: 85666124
- Description: 2-Way F ABX-5 Series(GY with YE Cover)

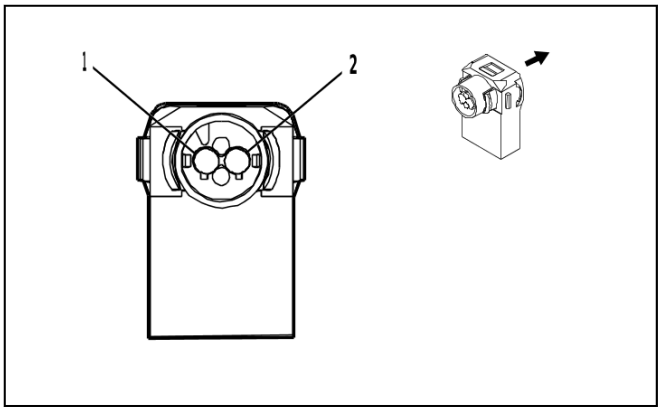
Terminal Part Information

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) —

F105R Front and Rear Row Roof Rail Airbag - Right



4679778

Connector Part Information
- Harness Type: Body Wiring Harness
- OEM Connector: 35504154
- Service Connector: 85666124
- Description: 2-Way F ABX-5 Series(GY with YE Cover)

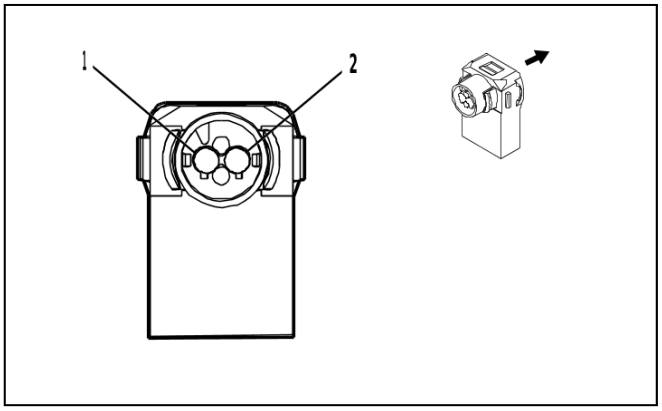
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-10 (GN)	No Tool Required

F105R Front and Rear 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) —

F105RF Front Row Roof Rail Airbag - Right



4679778

Connector Part Information
- Harness Type: Body Wiring Harness
- OEM Connector: 35504154
- Service Connector: 85666124
- Description: 2-Way F ABX-5 Series(GY with YE Cover)

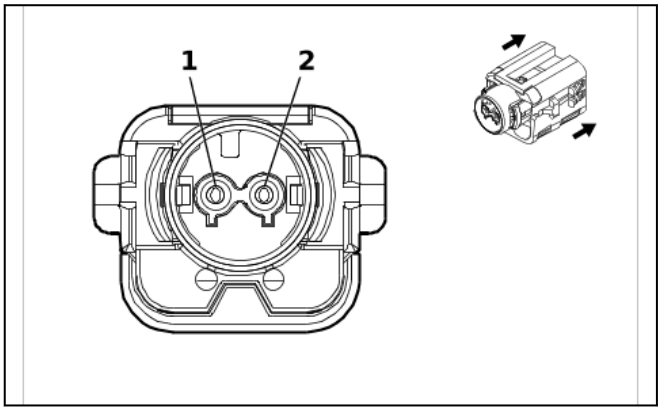
Terminal Part Information

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_A45
- OEM Connector: 35212936
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F ABX-5 Series(PK with YE Cover)

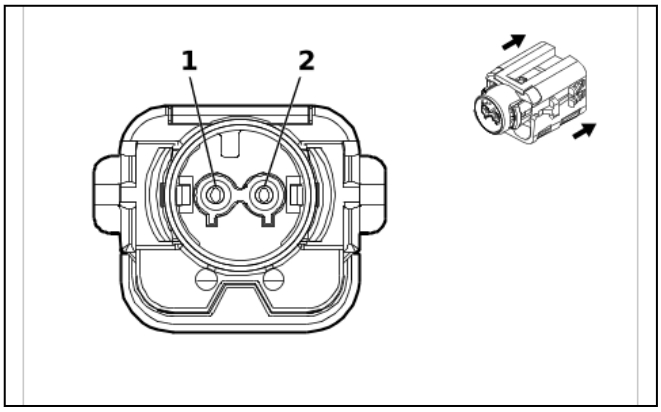
Terminal Part Information

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)

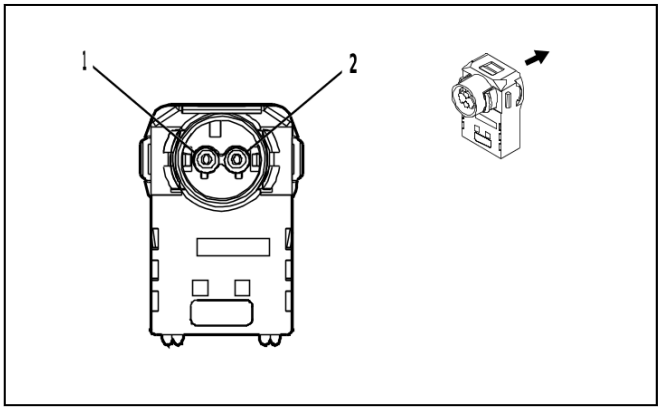
Terminal Part Information

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



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)

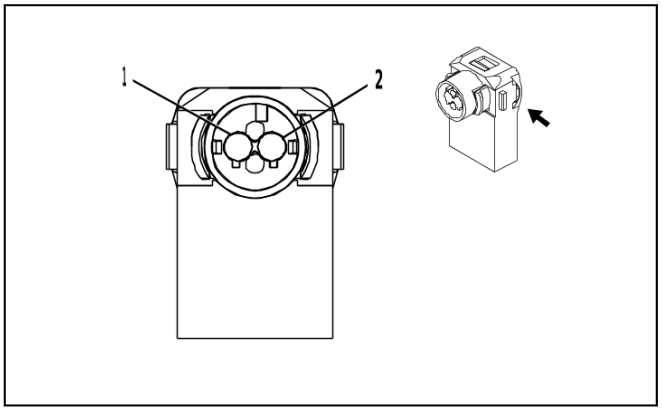
Terminal Part Information

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

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



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)

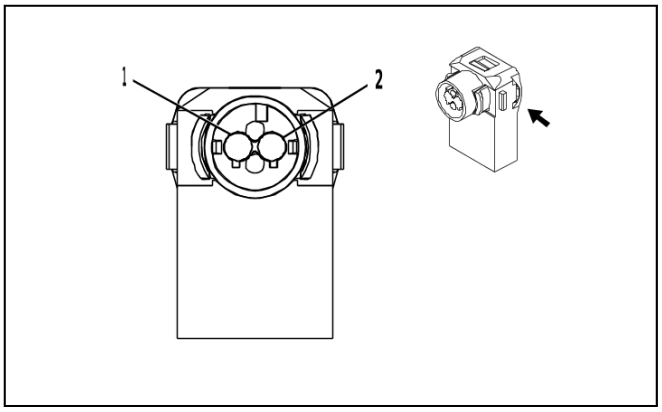
Terminal Part Information

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

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: 35504153
- Service Connector: 85666123
- Description: 2-Way F ABX-5 Series(PU with YE Cover)

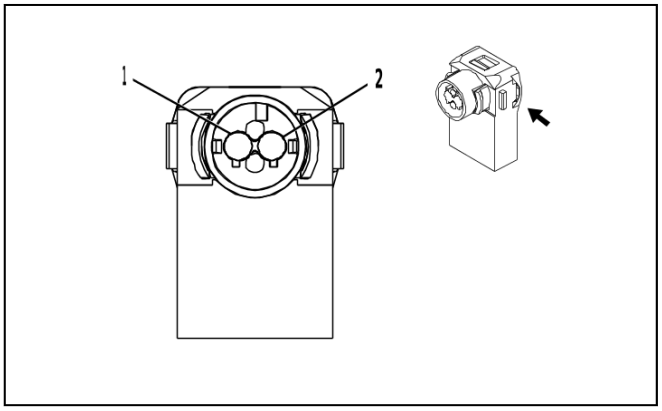
Terminal Part Information

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: 35504153
- Service Connector: 85666123
- Description: 2-Way F ABX-5 Series(PU with YE Cover)

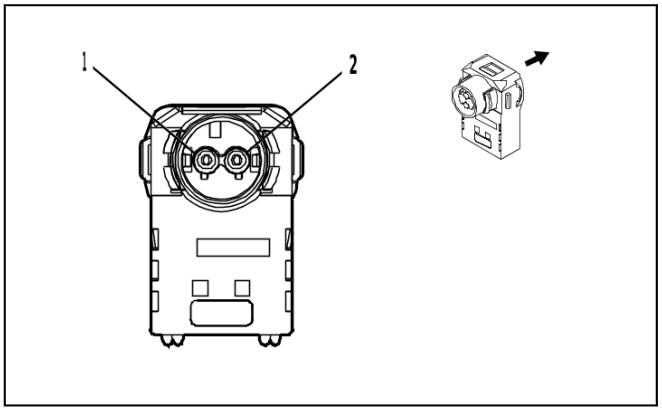
Terminal Part Information

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: 35504152
- Service Connector: 85666122
- Description: 2-Way F ABX-5 Series(PK with YE Cover)

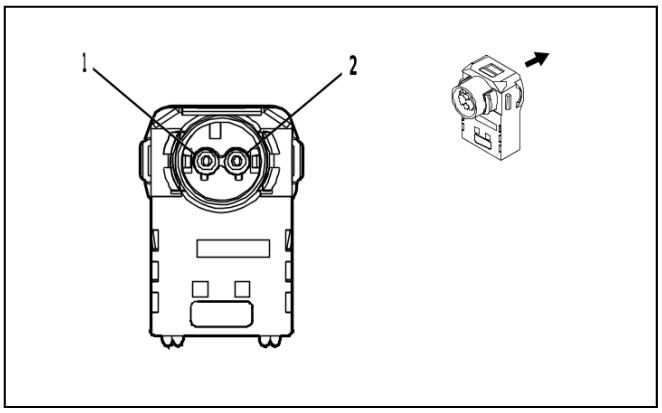
Terminal Part Information

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: 35504152
- Service Connector: 85666122
- Description: 2-Way F ABX-5 Series(PK with YE Cover)

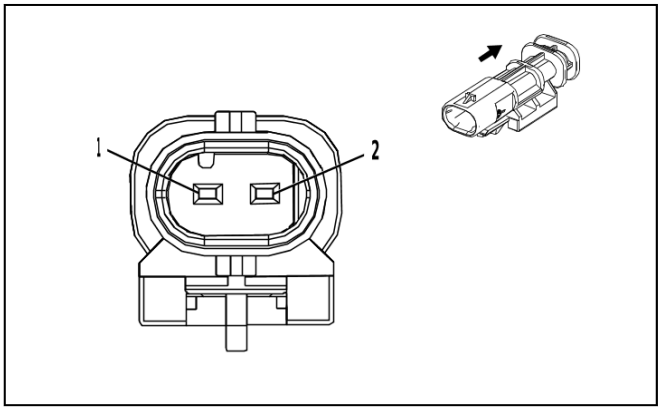
Terminal Part Information

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) —

G12AX Fuel Pump - Auxiliary (L5P)



2474755

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 2203314-1
- Service Connector: 85533165
- Description: 2-Way M 1.2 MCON Series, Sealed(BK)

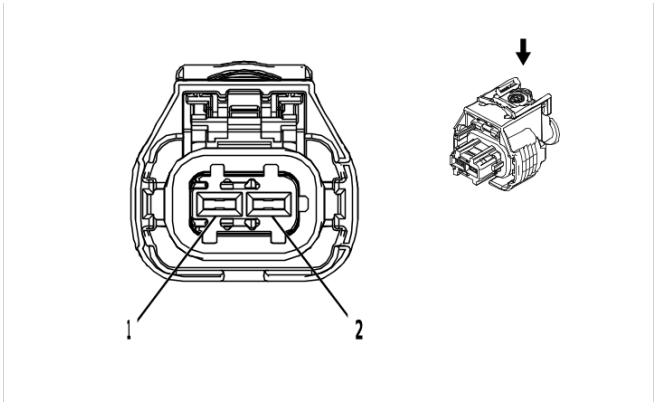
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-17 (L-GN)	No Tool Required

G12AX Fuel Pump - Auxiliary (L5P)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BU / GN	(1) 2120	(1) Secondary Fuel Pump Control	(1) I	(1) —
(2) 2	(2) 1	(2) BK / GN	(2) 1580	(2) Fuel Pump Low Reference	(2) I	(2) —

G13 Generator X1 (L5P - VYU)



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)

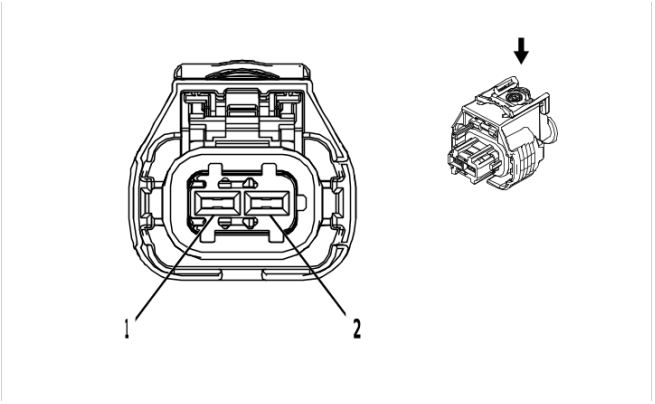
Terminal Part Information

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

G13 Generator X1 (L5P - VYU)

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 (L8T - VYU)



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)

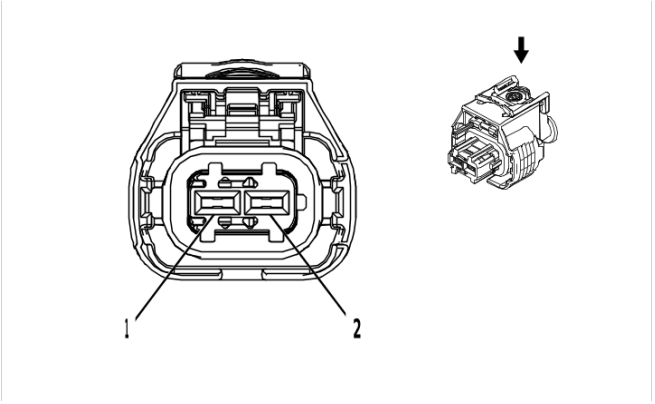
Terminal Part Information

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

G13 Generator X1 (L8T - VYU)

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)



2577394

Connector Part Information
- Harness Type: Accessory Wiring Harness
- OEM Connector: 1 928 405 714
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 Series, Sealed(BK)

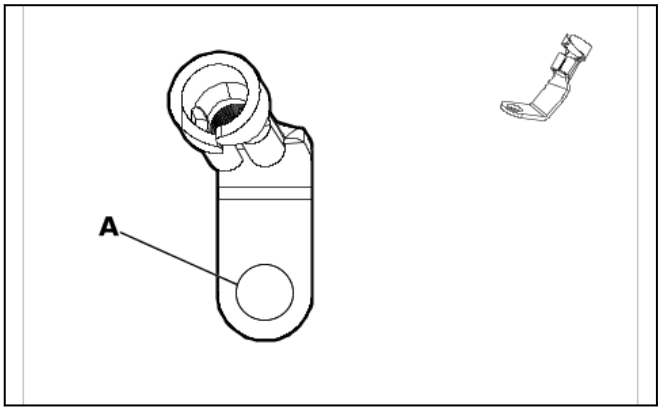
Terminal Part Information

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

G13 Generator X1 (VYU)

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 X2



6444138

Connector Part Information
- Harness Type: Generator Battery Jumper Cable
- OEM Connector: 84386100
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

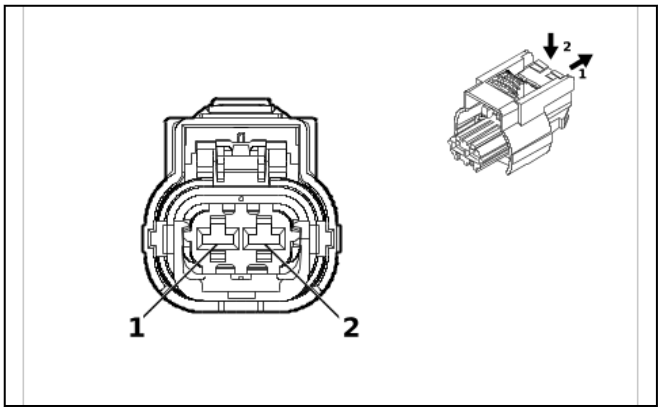
Terminal Part Information

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

G13 Generator X2

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

G13A Auxiliary Generator X1 (L5P - VYU)



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)

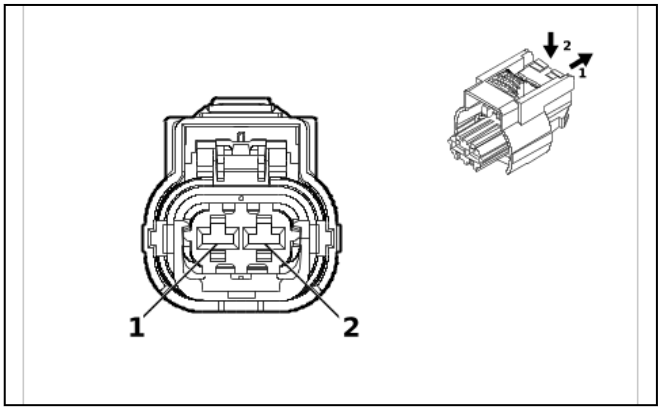
Terminal Part Information

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

G13A Auxiliary Generator X1 (L5P - VYU)

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) —

G13A Auxiliary Generator X1 (L8T - VYU)



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)

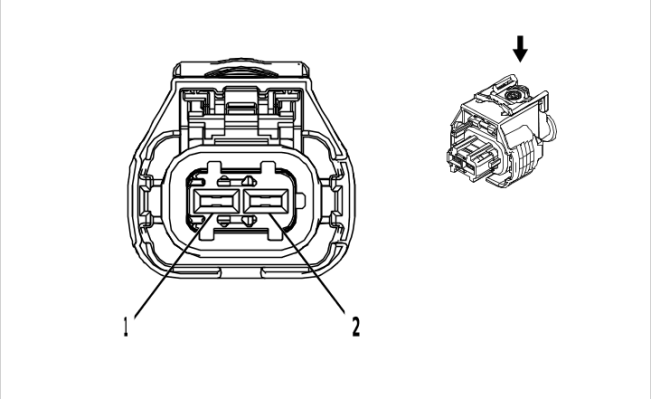
Terminal Part Information

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

G13A Auxiliary Generator X1 (L8T - VYU)

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) —

G13A Auxiliary Generator X1 (VYU)



2577394

Connector Part Information

- Harness Type: Accessory Wiring Harness
- OEM Connector: 1 928 405 714
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 Series, Sealed(BK)

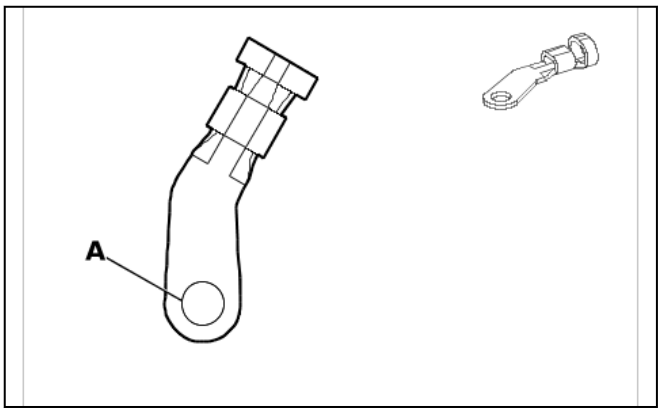
Terminal Part Information

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

G13A Auxiliary Generator X1 (VYU)

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) —

G13A Auxiliary Generator X2 (L5P)



6444786

Connector Part Information
- Harness Type: Auxiliary Generator Battery Jumper Cable
- OEM Connector: 1122701
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

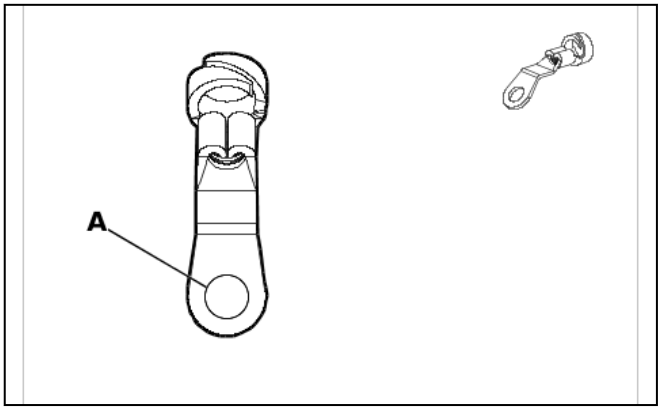
Terminal Part Information

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

G13A Auxiliary Generator X2 (L5P)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD / YE	2	Battery Positive Voltage	I	—

G13A Auxiliary Generator X2 (L8T)



6444145

Connector Part Information
- Harness Type: Auxiliary Generator Battery Jumper Cable
- OEM Connector: 13531265
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

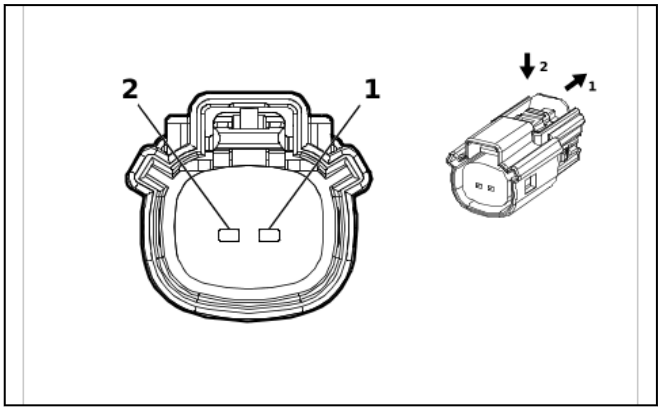
Terminal Part Information

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

G13A Auxiliary Generator X2 (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	25	RD / YE	2	Battery Positive Voltage	I	—

G18 Fuel Pump - High Pressure



2474713

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Right
- OEM Connector: 33471-0206
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

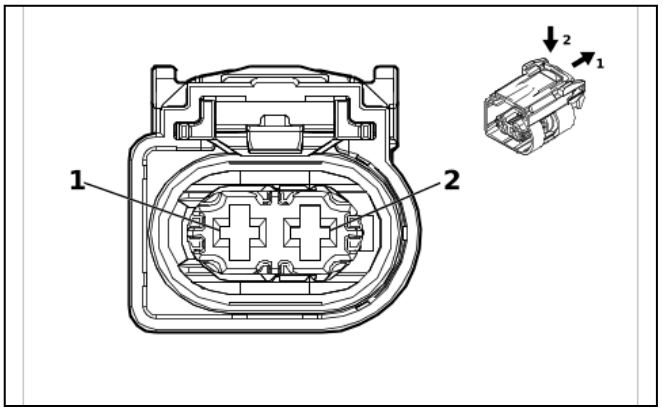
Terminal Part Information

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

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)

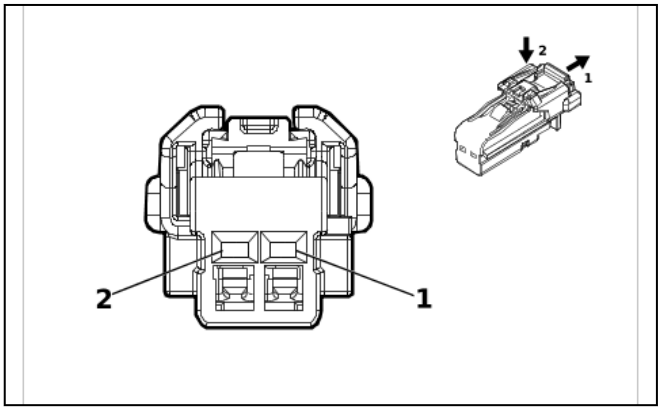
Terminal Part Information

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 (AVK)



4115691

Connector Part Information
- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

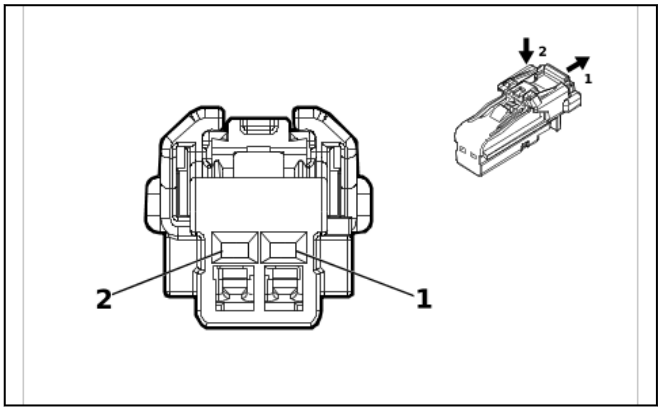
Terminal Part Information

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 (- (AVE & 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)

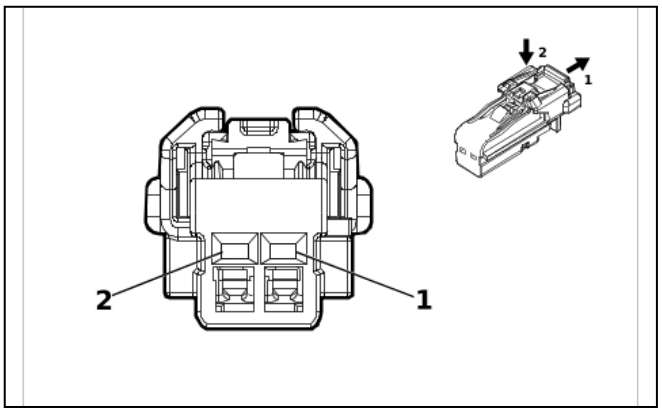
Terminal Part Information

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 (- (AVE & 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)

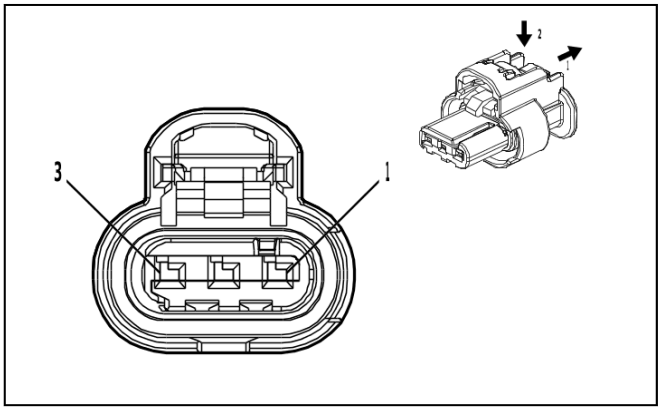
Terminal Part Information

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) —

G73 Low Temperature Loop Coolant Pump (MGM)



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)

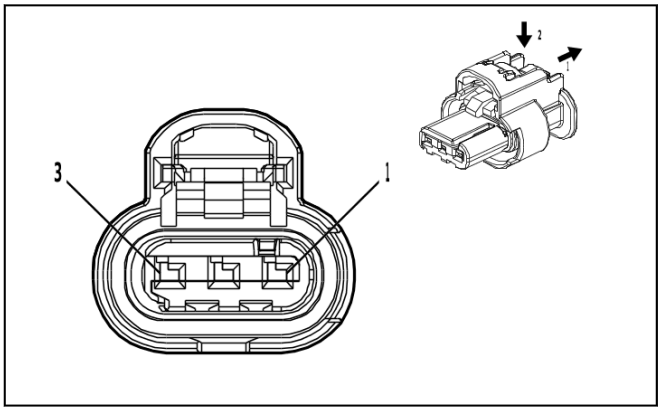
Terminal Part Information

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

G73 Low Temperature Loop Coolant Pump (MGM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6150	(1) Engine Odd Bank Ground	(1) I	(1) —
(2) 2	(2) 1	(2) VT / BU	(2) 5294	(2) Powertrain Main Relay Fused Supply Voltage 5	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / VT	(3) 4621	(3) Engine Control Module LIN Bus 1	(3) I	(3) —

G73 Low Temperature Loop Coolant Pump (MGU)



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)

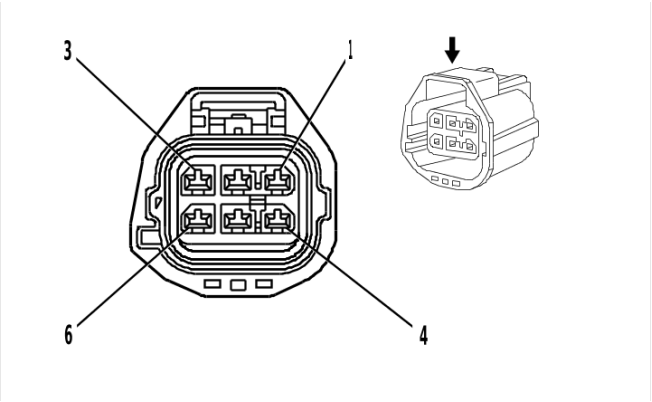
Terminal Part Information

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

G73 Low Temperature Loop Coolant Pump (MGU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1	(1) BK	(1) 6150	(1) Engine Odd Bank Ground	(1) I	(1) —
(2) 2	(2) 1	(2) VT / BU	(2) 5294	(2) Powertrain Main Relay Fused Supply Voltage 5	(2) I	(2) —
(3) 3	(3) 0.5	(3) GN / VT	(3) 4621	(3) Engine Control Module LIN Bus 1	(3) I	(3) —

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)

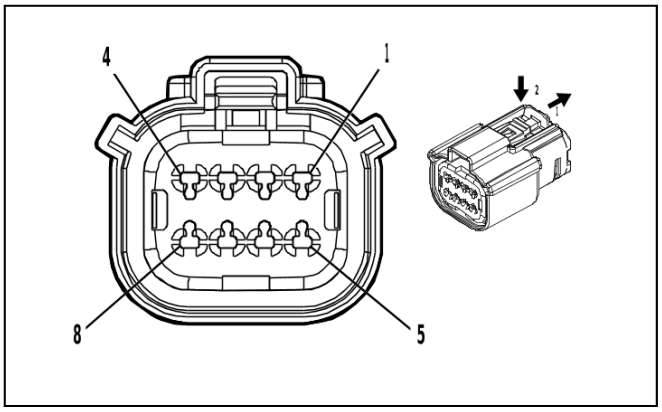
Terminal Part Information

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 / WH	(4) 1151	(4) Signal 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: 33472-4806
- Service Connector: 84928314
- Description: 8-Way F 1.5 MX Series, Sealed(BK)

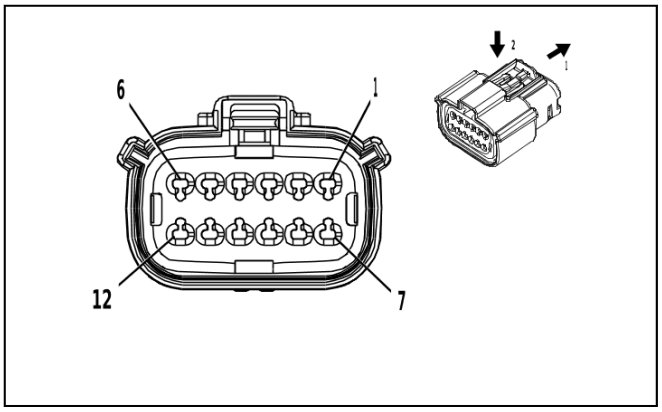
Terminal Part Information

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: 33472-6223
- Service Connector: 19352907
- Description: 12-Way F 1.5 MX Series, Sealed(BK)

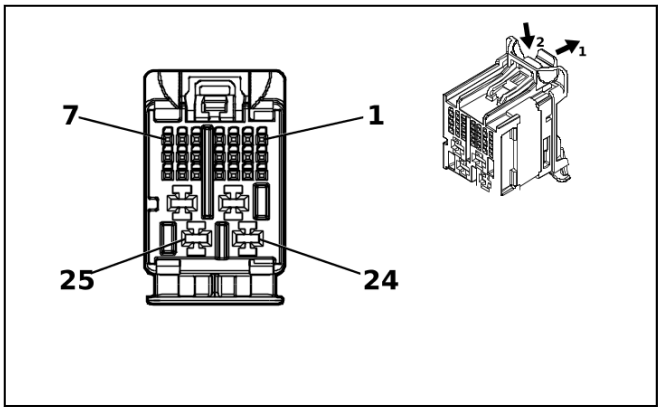
Terminal Part Information

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) 4	(4) 0.5	(4) BN	(4) 4748	(4) Left Running Board Step Courtesy Lamp Control	(4) I	(4) —
(5) 5	(5) 0.5	(5) GY / VT	(5) 4749	(5) Right Running Board Step Courtesy Lamp Control	(5) I	(5) —
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 - 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

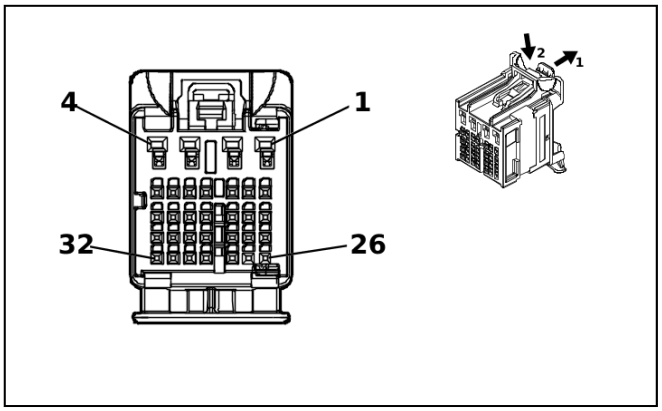
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	87814662	J-35616-35 (VT)	J-38125-557

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) 0.35	(11) GY / GN	(11) 4636	(11) HVAC System Enable Signal	(11) I	(11) —
(12) 12	(12) 0.35	(12) GY	(12) 728	(12) Security Indicator Control	(12) I	(12) —
(13) 13	(13) 0.35	(13) YE	(13) 6812	(13) Out of Park Signal	(13) I	(13) —
(14) 14	(14) 0.35	(14) BN / BU	(14) 4892	(14) Auxiliary Battery Relay Control	(14) I	(14) —
(15) 15	(15) 0.35	(15) GY	(15) 590	(15) Driver Solar Sensor Signal	(15) I	(15) —
(16) 16	(16) 0.35	(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) 0.35	(17) WH / BU	(17) 278	(17) Ambient Light Sensor Signal	(17) I	(17) —
(18) 18	(18) 0.35	(18) BU / WH	(18) 734	(18) Inside Air Temperature Sensor Signal	(18) I	(18) —
(19) 19	(19) 0.35	(19) GY	(19) 158	(19) Cargo Lamp Switch Signal	(19) I	(19) —
(20) 20	(20) 0.35	(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

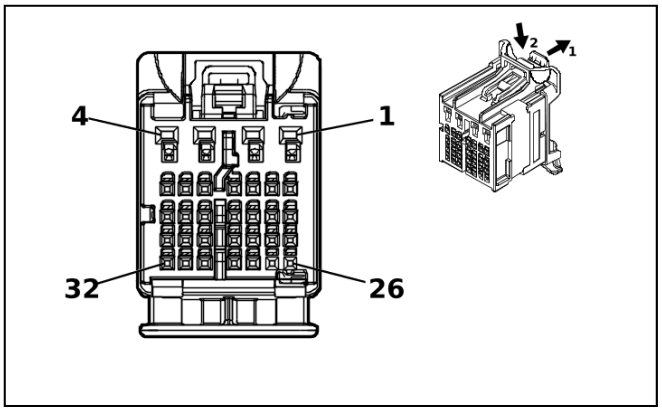
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58

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	—	—
(9) 9	(9) 0.35	(9) GN / BU	(9) 3738	(9) Tap Up/Tap Down Switch Signal 2	(9) I	(9) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(10) 10	(10) 0.35	(10) WH / BN	(10) 2203	(10) Enhanced Driver Mode 2 Switch Signal	(10) I	(10) —
(11) 11	(11) 0.35	(11) GY	(11) 1198	(11) Endgate Release Switch Analog Signal Interior	(11) I	(11) —
(12) 12	(12) 0.35	(12) YE / BU	(12) 1714	(12) Windshield Wiper Switch Low Signal	(12) I	(12) —
(13) 13	(13) 0.35	(13) GY / GN	(13) 5737	(13) Distance Sensing Cruise Control Gap Up/ Down Switch Signal	(13) I	(13) —
(14) 14	(14) 0.35	(14) BN / GN	(14) 1884	(14) Cruise Control Set/Coast/Resume/ Accelerate Switch Signal	(14) I	(14) —
15	—	—	—	Not Occupied	—	—
(16) 16	(16) 0.35	(16) BN / BK	(16) 5720	(16) Ignition Mode Switch Accessory LED Signal	(16) I	(16) —
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.35	(18) YE / BU	(18) 2912	(18) Driver Mode 2 Indicator Control	(18) I	(18) —
(19) 19	(19) 0.35	(19) WH / VT	(19) 103	(19) Headlamp Switch On Signal	(19) I	(19) —
(20) 20	(20) 0.35	(20) GN / GY	(20) 13	(20) Headlamp Switch Park Lamp Signal	(20) I	(20) —
(21) 21	(21) 0.35	(21) GN / BN	(21) 306	(21) Headlamp Switch Off Signal	(21) I	(21) —
(22) 22	(22) 0.35	(22) GY	(22) 4989	(22) Driver Mode 2 Switch Signal	(22) I	(22) —
(23) 23	(23) 0.35	(23) VT / BU	(23) 2916	(23) Right Turn Signal Switch Signal	(23) I	(23) —
24	—	—	—	Not Occupied	—	—
(25) 25	(25) 0.35	(25) BK / GY	(25) 6009	(25) Windshield Wiper Switch Low Reference	(25) I	(25) —
(26) 26	(26) 0.35	(26) WH / BK	(26) 94	(26) Windshield Washer Switch Signal	(26) I	(26) —
(27) 27	(27) 0.35	(27) YE / BN	(27) 307	(27) Headlamp Switch Flash Signal	(27) I	(27) —
(28) 28	(28) 0.35	(28) GN / WH	(28) 3287	(28) Horn Switch Signal	(28) I	(28) —
(29) 29	(29) 0.35	(29) WH / GN	(29) 2915	(29) Left Turn Signal Switch Signal	(29) I	(29) —
(30) 30	(30) 0.35	(30) BK / YE	(30) 407	(30) Sensor Low Reference	(30) I	(30) —
(31) 31	(31) 0.35	(31) GN / WH	(31) 111	(31) Hazard Warning Switch Signal	(31) I	(31) —
(32) 32	(32) 0.35	(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

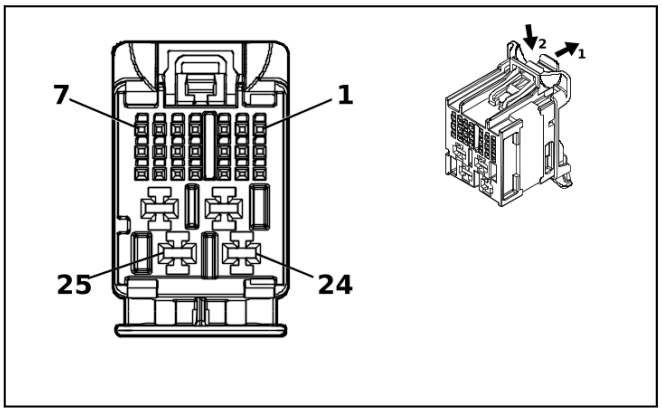
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

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) 0.35	(10) GN / BK	(10) 2858	(10) Body Control Module LIN Bus 12	(10) I	(10) —
11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0.35	(12) YE / WH	(12) 816	(12) Brake Transmission Shift Interlock Solenoid Actuator Control	(12) I	(12) —
(13) 13	(13) 0.35	(13) WH	(13) 3152	(13) Lane Departure Warning Indicator Control	(13) I	(13) —
(14) 14	(14) 0.35	(14) GN / BN	(14) 5852	(14) Rear Parking Assist Disable LED Signal	(14) I	(14) —
15	—	—	—	Not Occupied	—	—
(16) 16	(16) 0.35	(16) GN / BU	(16) 761	(16) Blower Speed Feedback Signal	(16) I	(16) —
(17) 17	(17) 0.35	(17) WH / VT	(17) 5905	(17) Key Capture/Column Lock Shift Position Signal	(17) I	(17) —
(18) 18	(18) 0.35	(18) YE	(18) 7556	(18) Headlamp Switch Reference	(18) I	(18) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(19) 19	(19) 0.35	(19) BU / BK	(19) 5719	(19) Ignition Mode Switch Start LED Signal	(19) I	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.35	(21) BN	(21) 7291	(21) Major Endgate Release Switch Signal Interior	(21) I	(21) —
22 - 23	—	—	—	Not Occupied	—	—
(24) 24	(24) 0.35	(24) WH / BU	(24) 3691	(24) Trailer Brake Apply Signal	(24) I	(24) —
(25) 25	(25) 0.35	(25) BU / GY	(25) 4990	(25) Driver Mode 1 Switch Signal	(25) I	(25) —
(26) 26	(26) 0.35	(26) GY / BN	(26) 3904	(26) Auto High Beam Assist Switch Signal	(26) I	(26) —
(27) 27	(27) 0.35	(27) GY / WH	(27) 3153	(27) Lane Departure Warning Disable Switch Signal	(27) I	(27) —
28 - 29	—	—	—	Not Occupied	—	—
(30) 30	(30) 0.35	(30) BU / YE	(30) 6844	(30) ABS/Traction Control Hill Descent Control Switch Signal	(30) I	(30) —
(31) 31	(31) 0.35	(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)

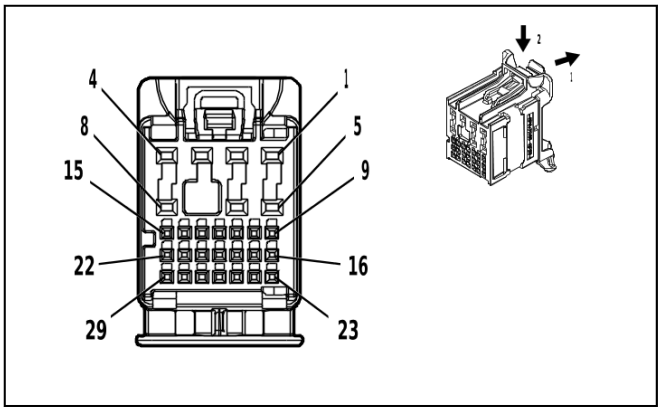
Terminal Part Information

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) 0.35	(10) GY / GN	(10) 4083	(10) Retained Accessory Power Relay 2 Coil Control	(10) I	(10) —
(11) 11	(11) 0.35	(11) BU / YE	(11) 7176	(11) All Windows Open Switch Signal	(11) I	(11) —
(12) 12	(12) 0.35	(12) BU / VT	(12) 7729	(12) Major Endgate Low Relay Control	(12) I	(12) —
13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.35	(14) WH / GY	(14) 4997	(14) Immobilizer Antenna Low Signal	(14) I	(14) —
(15) 15	(15) 0.35	(15) BU / VT	(15) 1788	(15) Traction Control Switch Signal 1	(15) I	(15) —
(16) 16	(16) 0.35	(16) GN / WH	(16) 4115	(16) Body Control Module LIN Bus 5	(16) I	(16) —
17 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.35	(19) BU / YE	(19) 4979	(19) AUTOSAR CAN Bus [+] 2 Serial Data	(19) I	(19) —
(20) 20	(20) 0.35	(20) WH	(20) 4978	(20) AUTOSAR CAN Bus [-] 2 Serial Data	(20) I	(20) —
(21) 21	(21) 0.35	(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

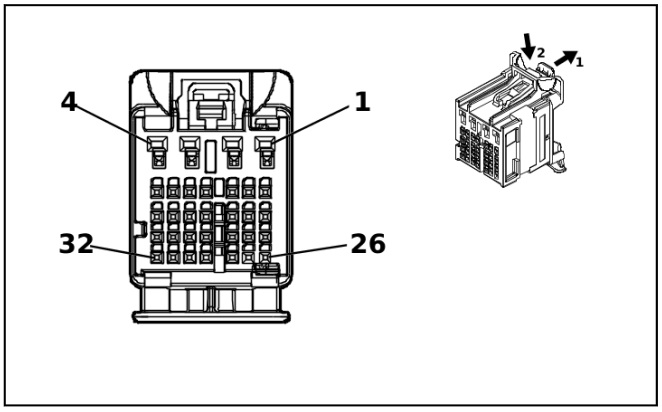
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

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) 0.35	(11) BN / WH	(11) 28	(11) Horn Relay Control	(11) I	(11) —
(12) 12	(12) 0.35	(12) WH	(12) 4978	(12) AUTOSAR CAN Bus [-] 2 Serial Data	(12) I	(12) —
(13) 13	(13) 0.35	(13) BU / YE	(13) 4979	(13) AUTOSAR CAN Bus [+] 2 Serial Data	(13) I	(13) —
14 - 15	—	—	—	Not Occupied	—	—
(16) 16	(16) 0.35	(16) VT	(16) 4301	(16) Passive Entry Left Antenna Signal High	(16) I	(16) —
(17) 17	(17) 0.35	(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) 0.35	(18) VT / GY	(18) 126	(18) Left Front Door Open Switch Signal	(18) I	(18) —
(19) 19	(19) 0.35	(19) GN / YE	(19) 6134	(19) Body Control Module LIN Bus 3	(19) I	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.35	(21) WH / BU	(21) 6311	(21) Cruise/ETC/TCC Brake Signal	(21) I	(21) —
(22) 22	(22) 0.35	(22) BN / VT	(22) 193	(22) Rear Defogger Relay Control	(22) I	(22) —
(23) 23	(23) 0.35	(23) VT / GY	(23) 4302	(23) Passive Entry Left Antenna Signal Low	(23) I	(23) —
(24) 24	(24) 0.35	(24) WH	(24) 5359	(24) Brake Apply Sensor Control	(24) I	(24) —
(25) 25	(25) 0.35	(25) BU / YE	(25) 5361	(25) Brake Apply Sensor Signal	(25) I	(25) —
(26) 26	(26) 0.35	(26) BK / BN	(26) 5360	(26) Brake Apply Sensor Low Reference	(26) I	(26) —
(27) 27	(27) 0.35	(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)

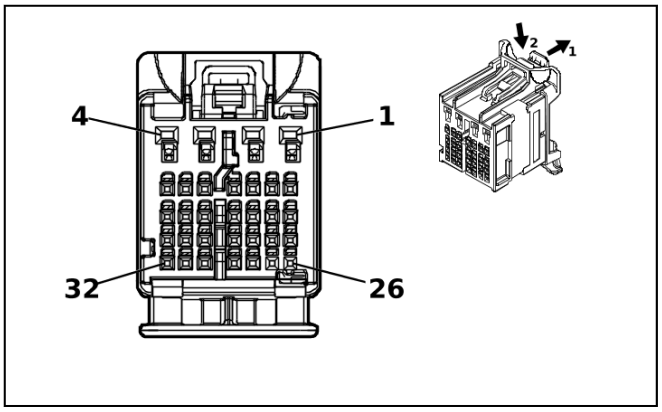
Terminal Part Information

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) 0.35	(11) GN / BU	(11) 6133	(11) Body Control Module LIN Bus 2	(11) I	(11) —
(12) 12	(12) 0.35	(12) GY	(12) 7292	(12) Major Endgate Release Switch Signal Exterior	(12) I	(12) —
13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.35	(14) VT	(14) 801	(14) Retained Accessory Power Control	(14) I	(14) —
15 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.35	(19) YE	(19) 7294	(19) Minor Endgate Release Switch Discrete Signal Exterior	(19) I	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.35	(21) YE / BU	(21) 7295	(21) Left Minor Endgate Ajar Signal	(21) I	(21) —
(22) 22	(22) 0.35	(22) BN / GN	(22) 4064	(22) Hood Status B Signal	(22) I	(22) —
23 - 27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.35	(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)

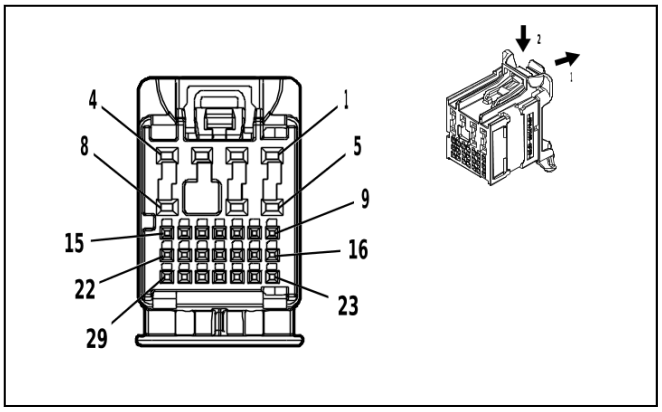
Terminal Part Information

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 / WH	(9) 900	(9) Unused	(9) I	(9) —
10 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.35	(19) GN / VT	(19) 2857	(19) Body Control Module LIN Bus 11	(19) I	(19) —
(20) 20	(20) 0.35	(20) YE / BK	(20) 901	(20) Unused	(20) I	(20) —
21	—	—	—	Not Occupied	—	—
(22) 22	(22) 0.35	(22) YE / BU	(22) 902	(22) Unused	(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(GY)

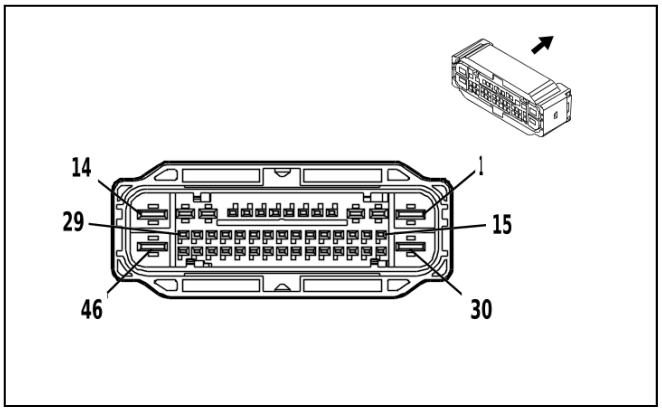
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	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) 0.35	(10) GN / YE	(10) 4303	(10) Passive Entry Right Antenna Signal High	(10) I	(10) —
11 - 16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.35	(17) GN / YE	(17) 2862	(17) Body Control Module LIN Bus 16	(17) I	(17) —
(18) 18	(18) 0.35	(18) GN / WH	(18) 2854	(18) Body Control Module LIN Bus 8	(18) I	(18) —
19 - 27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.35	(28) GY / VT	(28) 2676	(28) Right Front Door Exterior Switch Unlock Signal	(28) I	(28) —
(29) 29	(29) 0.35	(29) GN / GY	(29) 6135	(29) Body Control Module LIN Bus 4	(29) I	(29) —

K17 Electronic Brake Control Module



4162046

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 35670689
- Service Connector: 85090369
- Description: 46-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(GY)

Terminal Part Information

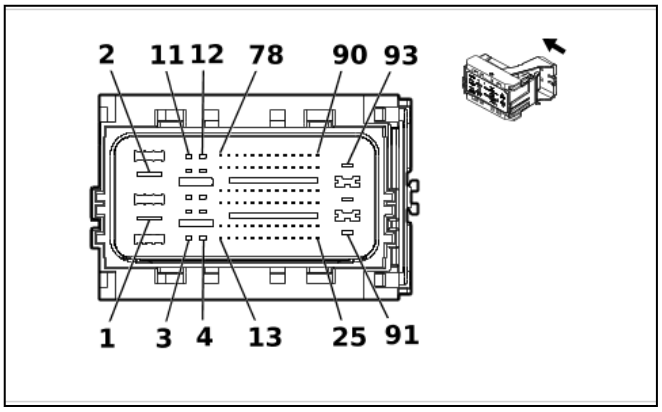
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575368	J-35616-35 (VT)	J-38125-36
II	19370818	J-35616-12 (BU)	J-38125-215A
III	84634921	J-35616-42 (RD)	J-38125-212

K17 Electronic Brake Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 6	(1) RD / WH	(1) 1642	(1) Battery Positive Voltage	(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	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) BU / YE	(7) 4979	(7) AUTOSAR CAN Bus [+] 2 Serial Data	(7) II	(7) —
(8) 8	(8) 0.5	(8) WH	(8) 4978	(8) AUTOSAR CAN Bus [-] 2 Serial Data	(8) II	(8) —
(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) 4	(14) BK	(14) 150	(14) Ground	(14) III	(14) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.5	(19) BU / YE	(19) 4979	(19) AUTOSAR CAN Bus [+] 2 Serial Data	(19) II	(19) —
(20) 20	(20) 0.5	(20) WH	(20) 4978	(20) AUTOSAR CAN Bus [-] 2 Serial Data	(20) II	(20) —
21 - 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 - 25	—	—	—	Not Occupied	—	—
(26) 26	(26) 0.5	(26) WH	(26) 4986	(26) AUTOSAR CAN Bus [-] 1 Serial Data	(26) II	(26) —
(27) 27	(27) 0.5	(27) GN / GY	(27) 333	(27) Brake Fluid Level Signal	(27) II	(27) —
(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) RD / WH	(30) 1040	(30) Battery Positive Voltage	(30) III	(30) —
31 - 32	—	—	—	Not Occupied	—	—
(33) 33	(33) 0.35	(33) YE	(33) 10280	(33) Private Steering Angle CAN Bus [+] Serial Data	(33) II	(33) —
(34) 34	(34) 0.35	(34) BU / WH	(34) 10279	(34) Private Steering Angle CAN Bus [-] 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) 0.35	(36) GN / GY	(36) 817	(36) Vehicle Speed Signal	(36) II	(36) —
37 - 38	—	—	—	Not Occupied	—	—
(39) 39	(39) 0.5	(39) BN / BU	(39) 1602	(39) Front Brake Pad Wear Sensor Signal	(39) II	(39) —
(40) 40	(40) 0.5	(40) GN / YE	(40) 1616	(40) Rear Brake Pad Wear Sensor Signal	(40) II	(40) —
41	—	—	—	Not Occupied	—	—
(42) 42	(42) 0.5	(42) BU	(42) 4987	(42) AUTOSAR CAN Bus [+] 1 Serial Data	(42) II	(42) —
(43) 43	(43) 0.35	(43) GN / BN	(43) 2087	(43) Multi-axis Acceleration Sensor Supply Voltage	(43) II	(43) —
(44) 44	(44) 0.5	(44) WH / BK	(44) 2223	(44) Trailer Brake Apply Signal	(44) II	(44) —
(45) 45	(45) 0.5	(45) YE / BK	(45) 2224	(45) Trailer Brake Enable Signal	(45) II	(45) —
(46) 46	(46) 4	(46) BK	(46) 250	(46) Ground	(46) III	(46) —

K20 Engine Control Module X1 (L5P)



6173672

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35659436
- Service Connector: 85079961
- Description: 93-Way F 0.5, 1.2, 2.8, 6.3 MX GENV Series, Sealed(BK with BU Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19355735	J-35616-4A (PU)	J-38125-217
II	85079962	EL-35616-58 (BK)	EL-38125-58
III	85079963	J-35616-12 (BU)	EL-38125-58
IV	85079964	J-35616-42 (RD)	J-38125-217

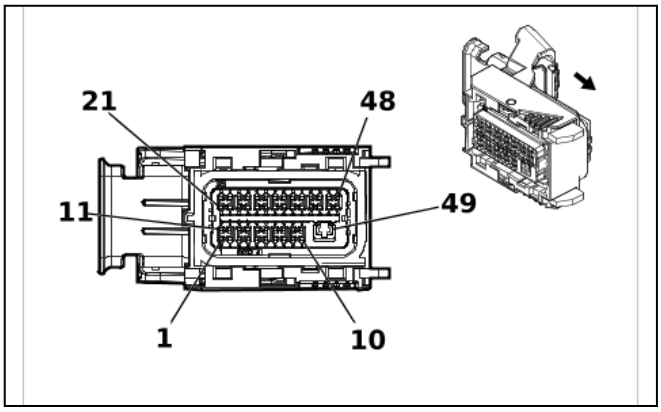
K20 Engine Control Module X1 (L5P)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 4	(1) BK / WH	(1) 251	(1) Signal Ground	(1) IV	(1) —
(2) 2	(2) 4	(2) VT / BU	(2) 5290	(2) Powertrain Main Relay Fused Supply Voltage 1	(2) IV	(2) —
(3) 3	(3) 0.75	(3) RD / BN	(3) 440	(3) Battery Positive Voltage	(3) III	(3) —
(4) 4	(4) 0.75	(4) VT / GN	(4) 439	(4) Run/Crank Ignition 1 Voltage	(4) III	(4) —
(5) 5	(5) 0.5	(5) BU / GN	(5) 11437	(5) Secondary Fuel Pump Disable Signal	(5) III	(5) —
(6) 6	(6) 0.5	(6) GN / GY	(6) 465	(6) Fuel Pump Primary Relay Control	(6) III	(6) —
(7) 7	(7) 0.5	(7) VT / BN	(7) 2927	(7) Exhaust Aftertreatment Fuel Injector Low Control	(7) III	(7) —
(8) 8	(8) 0.5	(8) YE	(8) 5991	(8) Powertrain Relay Coil Control	(8) III	(8) —
(9) 9	(9) 0.5	(9) BN / BU	(9) 2926	(9) Exhaust Aftertreatment Fuel Injector High Control	(9) III	(9) —
(10) 10	(10) 0.5	(10) BN / WH	(10) 3100	(10) Diesel Exhaust Fluid Dosing Valve Low Control	(10) III	(10) —
(11) 11	(11) 0.5	(11) GN / BU	(11) 3889	(11) Powertrain Sensor Bus Relay Control	(11) III	(11) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(12) 12	(12) 0.5	(12) BN	(12) 3099	(12) Diesel Exhaust Fluid Dosing Valve High Control	(12) III	(12) —
(13) 13	(13) 0.5	(13) BN / YE	(13) 11438	(13) Power Take Off Wakeup Signal	(13) II	(13) —
(14) 14	(14) 0.5	(14) WH / BK	(14) 2366	(14) Cooling Fan Speed Control Signal	(14) II	(14) —
(15) 15	(15) 0.5	(15) BU	(15) 3017	(15) Fuel Heater Relay 1 Control	(15) II	(15) —
(16) 16	(16) 0.5	(16) WH / GY	(16) 459	(16) Air Conditioning Compressor Clutch Relay Control	(16) II	(16) —
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.5	(18) YE / WH	(18) 1161	(18) Accelerator Pedal Position Signal 1	(18) II	(18) —
(19) 19	(19) 0.5	(19) WH / RD	(19) 1164	(19) Accelerator Pedal Position 5V Reference 1	(19) II	(19) —
(20) 20	(20) 0.5	(20) BN / RD	(20) 1274	(20) Accelerator Pedal Position 5V Reference 2	(20) II	(20) —
(21) 21	(21) 0.5	(21) GN / WH	(21) 1162	(21) Accelerator Pedal Position Signal 2	(21) II	(21) —
22	—	—	—	Not Occupied	—	—
(23) 23	(23) 0.5	(23) BU / GY	(23) 4054	(23) Private Serial Data Powertrain CAN Bus [-] Serial Data	(23) II	(23) —
(24) 24	(24) 0.5	(24) WH	(24) 4976	(24) AUTOSAR CAN Bus [-] 3 Serial Data	(24) II	(24) —
(25) 25	(25) 0.5	(25) WH	(25) 4978	(25) AUTOSAR CAN Bus [-] 2 Serial Data	(25) II	(25) —
26 - 27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.5	(28) GN / BN	(28) 507	(28) Wait To Start Indicator Control	(28) II	(28) —
29 - 30	—	—	—	Not Occupied	—	—
(31) 31	(31) 0.5	(31) BK / BU	(31) 1271	(31) Accelerator Pedal Position Low Reference 1	(31) II	(31) —
32	—	—	—	Not Occupied	—	—
(33) 33	(33) 0.5	(33) BK / GY	(33) 626	(33) Engine Control Vehicle Sensors Low Reference 1	(33) II	(33) —
(34) 34	(34) 0.5	(34) BK / VT	(34) 1272	(34) Accelerator Pedal Position Low Reference 2	(34) II	(34) —
35	—	—	—	Not Occupied	—	—
(36) 36	(36) 0.5	(36) WH	(36) 4055	(36) Private Serial Data Powertrain CAN Bus [+] Serial Data	(36) II	(36) —
(37) 37	(37) 0.5	(37) BU / BK	(37) 4977	(37) AUTOSAR CAN Bus [+] 3 Serial Data	(37) II	(37) —
(38) 38	(38) 0.5	(38) BU / YE	(38) 4979	(38) AUTOSAR CAN Bus [+] 2 Serial Data	(38) II	(38) —
(39) 39	(39) 0.5	(39) BN	(39) 25	(39) Charge Indicator Control	(39) II	(39) —
40	—	—	—	Not Occupied	—	—
(41) 41	(41) 0.5	(41) BU / VT	(41) 2364	(41) Cooling Fan Speed Signal	(41) II	(41) —
42 - 43	—	—	—	Not Occupied	—	—
(44) 44	(44) 0.5	(44) BU / GY	(44) 636	(44) Ambient Air Temperature Sensor Signal	(44) II	(44) —
(45) 45	(45) 0.5	(45) WH / GN	(45) 5380	(45) Brake Position Sensor Signal	(45) II	(45) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(46) 46	(46) 0.5	(46) YE	(46) 4063	(46) Hood Status A Signal	(46) II	(46) —
(47) 47	(47) 0.5	(47) GN	(47) 380	(47) Air Conditioning Refrigerant Pressure Sensor Signal	(47) II	(47) —
48 - 51	—	—	—	Not Occupied	—	—
(52) 52	(52) 0.5	(52) YE / BK	(52) 625	(52) Starter Enable Relay Control	(52) II	(52) —
53	—	—	—	Not Occupied	—	—
(54) 54	(54) 0.5	(54) GN / YE	(54) 3337	(54) Transmission Internal Mode Switch Mode Control Y	(54) II	(54) —
(55) 55	(55) 0.5	(55) GY	(55) 23	(55) Generator Field Duty Cycle Signal	(55) II	(55) —
(56) 56	(56) 0.5	(56) BU	(56) 492	(56) Mass Air Flow Sensor Signal	(56) II	(56) —
57 - 61	—	—	—	Not Occupied	—	—
(62) 62	(62) 0.5	(62) GN / VT	(62) 4621	(62) Engine Control Module LIN Bus 1	(62) II	(62) —
(63) 63	(63) 0.5	(63) GN / WH	(63) 4622	(63) Engine Control Module LIN Bus 2	(63) II	(63) —
64 - 66	—	—	—	Not Occupied	—	—
(67) 67	(67) 0.5 (67) 0.5	(67) WH / GN (67) BK	(67) 6142 (67) 163	(67) Power Take-Off Engine Shutdown Signal (67) Folding Top Motor Down Control	(67) II (67) II	(67) PTO (67) - PTO
68 - 72	—	—	—	Not Occupied	—	—
(73) 73	(73) 0.5	(73) BU	(73) 10290	(73) Exhaust Gas Temperature Sensor SENT 2 Signal	(73) II	(73) —
(74) 74	(74) 0.5	(74) YE	(74) 10291	(74) Exhaust Gas Temperature Sensor SENT 3 Signal	(74) II	(74) —
75 - 76	—	—	—	Not Occupied	—	—
(77) 77	(77) 0.5	(77) WH / BN	(77) 2363	(77) Exhaust Pressure Sensor SENT 1 Signal	(77) II	(77) —
(78) 78	(78) 0.5	(78) WH / RD	(78) 480	(78) Engine Control Vehicle Sensors 5 Volt Reference 1	(78) II	(78) —
(79) 79	(79) 0.5	(79) YE / RD	(79) 10595	(79) Engine Control Vehicle Sensors 5 Volt Reference 2	(79) II	(79) —
80 - 91	—	—	—	Not Occupied	—	—
(92) 92	(92) 2.5	(92) VT / BU	(92) 5294	(92) Powertrain Main Relay Fused Supply Voltage 5	(92) I	(92) —
(93) 93	(93) 2.5	(93) VT / BU	(93) 5290	(93) Powertrain Main Relay Fused Supply Voltage 1	(93) I	(93) —

K20 Engine Control Module X1 (L8T)



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

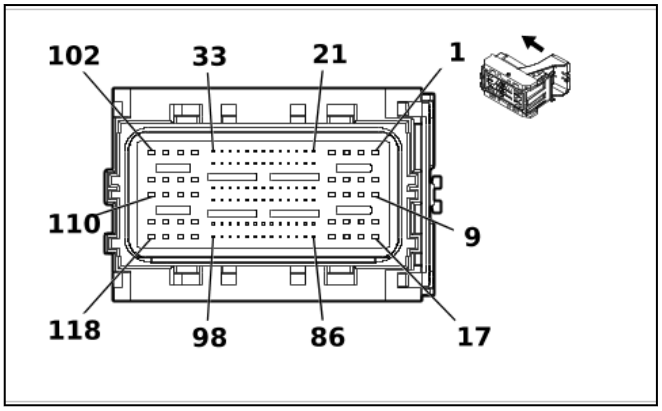
K20 Engine Control Module X1 (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU	(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	—	—	—	Not Occupied	—	—
(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) —
16	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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) BU / GN	(22) 11437	(22) Secondary Fuel Pump Disable Signal	(22) II	(22) —
23	—	—	—	Not Occupied	—	—
(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) 0.75	(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) 42	(42) 0.5	(42) YE / GY	(42) 11029	(42) Canister Vapor Pressure Sensor Signal	(42) II	(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) 0.75	(48) VT / BU	(48) 5290	(48) Powertrain Main Relay Fused Supply Voltage 1	(48) II	(48) —
(49) 49	(49) 2.5	(49) VT / BU	(49) 5290	(49) Powertrain Main Relay Fused Supply Voltage 1	(49) I	(49) —

K20 Engine Control Module X2 (L5P)



6166536

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13552796
- Service Connector: 85079959
- Description: 118-Way F 0.5, 1.2 MXGENV Series, Sealed(BK with BK Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85079962	EL-35616-58 (BK)	EL-38125-58
II	85079963	J-35616-12 (BU)	EL-38125-58

K20 Engine Control Module X2 (L5P)

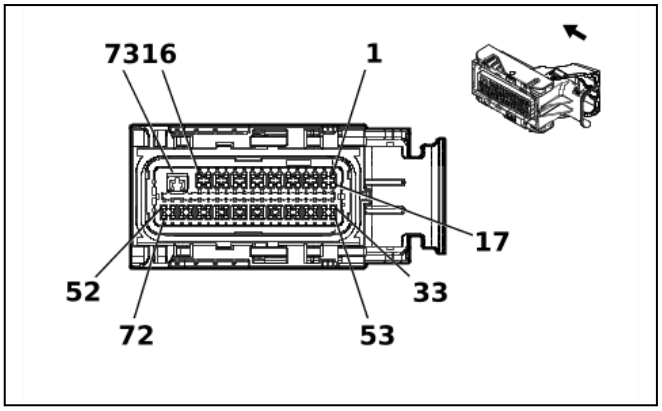
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / WH	(1) 4901	(1) Direct Fuel Injector High Voltage Supply Cylinder 1	(1) II	(1) —
(2) 2	(2) 0.75	(2) BU / WH	(2) 4904	(2) Direct Fuel Injector High Voltage Supply Cylinder 4	(2) II	(2) —
(3) 3	(3) 0.75	(3) BU / GY	(3) 4902	(3) Direct Fuel Injector High Voltage Supply Cylinder 2	(3) II	(3) —
(4) 4	(4) 0.75	(4) GN / WH	(4) 4905	(4) Direct Fuel Injector High Voltage Supply Cylinder 5	(4) II	(4) —
(5) 5	(5) 0.5	(5) YE	(5) 581	(5) Throttle Actuator Open Control	(5) II	(5) —
(6) 6	(6) 0.5	(6) WH / VT	(6) 5764	(6) Exhaust Gas Recirculation Valve High Control	(6) II	(6) —
(7) 7	(7) 0.5	(7) VT / BK	(7) 5746	(7) Exhaust Gas Recirculation Valve Low Control	(7) II	(7) —
(8) 8	(8) 0.5	(8) BK / BU	(8) 10597	(8) Engine Control Sensors Low Reference 3	(8) II	(8) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(9) 9	(9) 0.5	(9) BN / WH	(9) 582	(9) Throttle Actuator Close Control	(9) II	(9) —
(10) 10	(10) 0.5	(10) BN / VT	(10) 3656	(10) EGR Cooler Bypass Valve Close Control	(10) II	(10) —
(11) 11	(11) 0.5	(11) YE / GN	(11) 3655	(11) EGR Cooler Bypass Valve Open Control	(11) II	(11) —
12	—	—	—	Not Occupied	—	—
(13) 13	(13) 0.5	(13) BU / WH	(13) 2530	(13) Fuel Rail Pressure Solenoid Valve Control	(13) II	(13) —
14 - 16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.5	(17) YE	(17) 2928	(17) Fuel Metering Solenoid Valve High Control	(17) II	(17) —
18 - 20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.5	(21) GN	(21) 10289	(21) Exhaust Gas Temperature Sensor SENT 1 Signal	(21) I	(21) —
(22) 22	(22) 0.5	(22) BU / WH	(22) 3630	(22) Throttle Position Sensor SENT 1 Signal	(22) I	(22) —
23 - 25	—	—	—	Not Occupied	—	—
(26) 26	(26) 0.5	(26) GN / WH	(26) 432	(26) Manifold Absolute Pressure Sensor Signal	(26) I	(26) —
(27) 27	(27) 0.5	(27) YE / BN	(27) 331	(27) Oil Pressure Sensor Signal	(27) I	(27) —
(28) 28	(28) 0.5	(28) WH / BU	(28) 7329	(28) Pre-Throttle Air Temperature Signal	(28) I	(28) —
(29) 29	(29) 0.5	(29) BU	(29) 410	(29) Engine Coolant Temperature Sensor Signal	(29) I	(29) —
(30) 30	(30) 0.5	(30) BN	(30) 3681	(30) Charge Air Cooler Outlet Temperature Sensor Signal	(30) I	(30) —
(31) 31	(31) 0.5	(31) GN	(31) 3683	(31) Charge Air Cooler Inlet Temperature Sensor Signal	(31) I	(31) —
32 - 38	—	—	—	Not Occupied	—	—
(39) 39	(39) 0.5	(39) BU / WH	(39) 2918	(39) Fuel Rail Pressure Sensor Signal	(39) I	(39) —
(40) 40	(40) 0.5	(40) BN / WH	(40) 5763	(40) Exhaust Gas Recirculation Position Signal	(40) I	(40) —
(41) 41	(41) 0.5	(41) GN / GY	(41) 3654	(41) EGR Cooler Bypass Valve Position Sensor Signal	(41) I	(41) —
42 - 46	—	—	—	Not Occupied	—	—
(47) 47	(47) 0.5	(47) YE / GY	(47) 3926	(47) Crankcase Differential Pressure Sensor Signal	(47) I	(47) —
48 - 59	—	—	—	Not Occupied	—	—
(60) 60	(60) 0.5	(60) BN / GN	(60) 1174	(60) Oil Level Switch Signal	(60) I	(60) —
61 - 63	—	—	—	Not Occupied	—	—
(64) 64	(64) 0.5	(64) BK / GN	(64) 2919	(64) Fuel Rail Pressure Sensor Low Reference	(64) I	(64) —
65 - 76	—	—	—	Not Occupied	—	—
(77) 77	(77) 0.5	(77) BN / YE	(77) 2161	(77) Fuel Rail Pressure Sensor 2 Signal	(77) I	(77) —
(78) 78	(78) 0.5	(78) BK / YE	(78) 6275	(78) Exhaust Gas Recirculation Temperature Sensor 2 Low Reference	(78) I	(78) —
79 - 82	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(83) 83	(83) 0.5	(83) BK / GY	(83) 5296	(83) Exhaust Camshaft Position Sensor Low Reference 1	(83) I	(83) —
(84) 84	(84) 0.5	(84) GN	(84) 6271	(84) Crankshaft Position Sensor Signal	(84) I	(84) —
(85) 85	(85) 0.5	(85) BK / VT	(85) 6272	(85) Crankshaft Position Sensor Low Reference	(85) I	(85) —
86 - 89	—	—	—	Not Occupied	—	—
(90) 90	(90) 0.5	(90) BN / RD	(90) 2917	(90) Fuel Rail Pressure Sensor 5V Reference	(90) I	(90) —
(91) 91	(91) 0.5	(91) YE / GN	(91) 3236	(91) Exhaust Gas Recirculation Temperature Sensor 2 Signal	(91) I	(91) —
92 - 95	—	—	—	Not Occupied	—	—
(96) 96	(96) 0.5	(96) VT / BU	(96) 6270	(96) Crankshaft Position Sensor Voltage	(96) I	(96) —
(97) 97	(97) 0.5	(97) VT / BK	(97) 5273	(97) Exhaust Camshaft Position Sensor 1	(97) I	(97) —
(98) 98	(98) 0.5	(98) GY / YE	(98) 5297	(98) Exhaust Camshaft Position Sensor 1 Voltage Reference	(98) I	(98) —
(99) 99	(99) 0.75	(99) WH / YE	(99) 4907	(99) Direct Fuel Injector High Voltage Supply Cylinder 7	(99) II	(99) —
(100) 100	(100) 0.75	(100) VT / GY	(100) 4906	(100) Direct Fuel Injector High Voltage Supply Cylinder 6	(100) II	(100) —
(101) 101	(101) 0.75	(101) GY / WH	(101) 4908	(101) Direct Fuel Injector High Voltage Supply Cylinder 8	(101) II	(101) —
(102) 102	(102) 0.75	(102) GN / GY	(102) 4903	(102) Direct Fuel Injector High Voltage Supply Cylinder 3	(102) II	(102) —
(103) 103	(103) 0.75	(103) BN	(103) 4801	(103) Direct Fuel Injector High Voltage Control Cylinder 1	(103) II	(103) —
(104) 104	(104) 0.75	(104) GY / BU	(104) 4804	(104) Direct Fuel Injector High Voltage Control Cylinder 4	(104) II	(104) —
(105) 105	(105) 0.75	(105) BU	(105) 4802	(105) Direct Fuel Injector High Voltage Control Cylinder 2	(105) II	(105) —
(106) 106	(106) 0.75	(106) WH / GN	(106) 4805	(106) Direct Fuel Injector High Voltage Control Cylinder 5	(106) II	(106) —
(107) 107	(107) 0.75	(107) YE / GY	(107) 4807	(107) Direct Fuel Injector High Voltage Control Cylinder 7	(107) II	(107) —
(108) 108	(108) 0.75	(108) VT / GN	(108) 4806	(108) Direct Fuel Injector High Voltage Control Cylinder 6	(108) II	(108) —
(109) 109	(109) 0.75	(109) GY	(109) 4808	(109) Direct Fuel Injector High Voltage Control Cylinder 8	(109) II	(109) —
(110) 110	(110) 0.75	(110) GN	(110) 4803	(110) Direct Fuel Injector High Voltage Control Cylinder 3	(110) II	(110) —
(111) 111	(111) 0.5	(111) BU / RD	(111) 460	(111) Engine Control Sensors 5 Volt Reference 1	(111) II	(111) —
(112) 112	(112) 0.5	(112) BK / YE	(112) 548	(112) Engine Control Sensors Low Reference 1	(112) II	(112) —
113 - 114	—	—	—	Not Occupied	—	—
(115) 115	(115) 0.5	(115) GY / RD	(115) 10667	(115) Engine Control Sensors 5 Volt Reference	(115) II	(115) —
(116) 116	(116) 0.5	(116) BK / GN	(116) 580	(116) Engine Control Sensors Low Reference 2	(116) II	(116) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(117) 117	(117) 0.5	(117) BK / YE	(117) 2834	(117) Fuel Rail Pressure Solenoid Valve Low Control	(117) II	(117) —
(118) 118	(118) 0.5	(118) BN / BK	(118) 2929	(118) Fuel Metering Solenoid Valve Low Control	(118) II	(118) —

K20 Engine Control Module X2 (L8T)



1673472

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 35806227
- 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-38125-215A

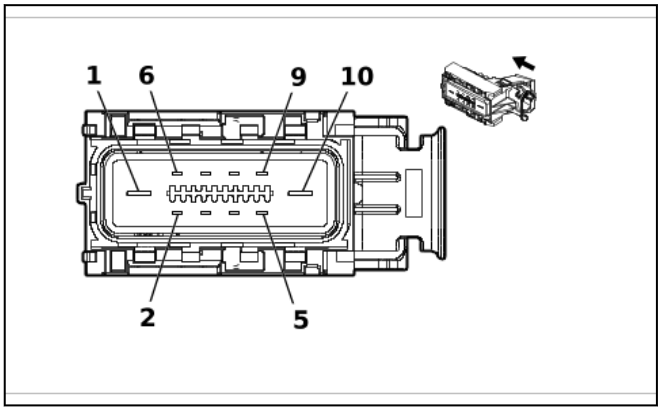
K20 Engine Control Module X2 (L8T)

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	—	—	—	Not Occupied	—	—
(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 / WH	(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	—	—	—	Not Occupied	—	—
(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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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 - 16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.5	(17) GY / WH	(17) 3113	(17) HO2S Heater Low Control Bank 1 Sensor 1	(17) II	(17) —
18 - 25	—	—	—	Not Occupied	—	—
(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 - 32	—	—	—	Not Occupied	—	—
(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	—	—	—	Not Occupied	—	—
(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 - 49	—	—	—	Not Occupied	—	—
(50) 50	(50) 0.5	(50) BK / GY	(50) 2303	(50) Knock Sensor Low Reference 2	(50) II	(50) —
(51) 51	(51) 0.5	(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 - 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) BN	(67) 3120	(67) HO2S High Signal Bank 1 Sensor 2	(67) II	(67) —
68 - 69	—	—	—	Not Occupied	—	—
(70) 70	(70) 0.5	(70) WH / GY	(70) 1876	(70) Knock Sensor 2 Signal	(70) II	(70) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(71) 71	(71) 0.5	(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 X3 (L5P)



6168487

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 203259-0106
- Service Connector: 85761015
- Description: 10-Way F 2.8, 6.3 APEX Series, Sealed(BK with GY Terminal Position Assurance)

Terminal Part Information

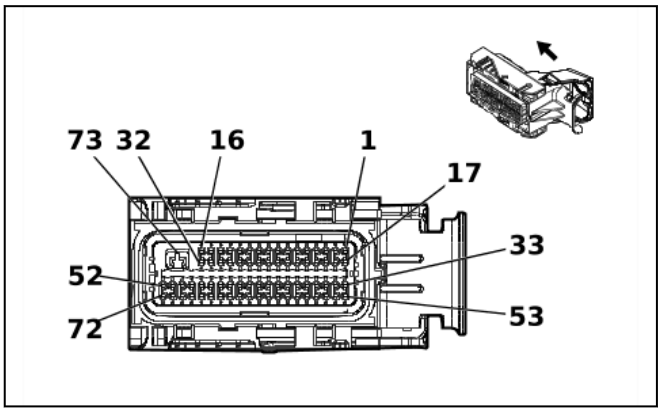
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19355735	J-35616-4A (PU)	J-38125-217
II	85079964	J-35616-42 (RD)	J-38125-217

K20 Engine Control Module X3 (L5P)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 6	(1) BN / BU	(1) 104	(1) Glow Plug Control	(1) II	(1) —
(2) 2	(2) 2.5	(2) GY / BU	(2) 1581	(2) Glow Plug 1 Control	(2) I	(2) —
(3) 3	(3) 2.5	(3) WH / BK	(3) 1587	(3) Glow Plug 7 Control	(3) I	(3) —
(4) 4	(4) 2.5	(4) GY / YE	(4) 1584	(4) Glow Plug 4 Control	(4) I	(4) —
(5) 5	(5) 2.5	(5) GY / VT	(5) 1586	(5) Glow Plug 6 Control	(5) I	(5) —
(6) 6	(6) 2.5	(6) GY / BN	(6) 1582	(6) Glow Plug 2 Control	(6) I	(6) —
(7) 7	(7) 2.5	(7) WH / BU	(7) 1588	(7) Glow Plug 8 Control	(7) I	(7) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(8) 8	(8) 2.5	(8) GY / WH	(8) 1585	(8) Glow Plug 5 Control	(8) I	(8) —
(9) 9	(9) 2.5	(9) GY / GN	(9) 1583	(9) Glow Plug 3 Control	(9) I	(9) —
(10) 10	(10) 6	(10) BN / BU	(10) 104	(10) Glow Plug Control	(10) II	(10) —

K20 Engine Control Module X3 (L8T)



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-38125-215A

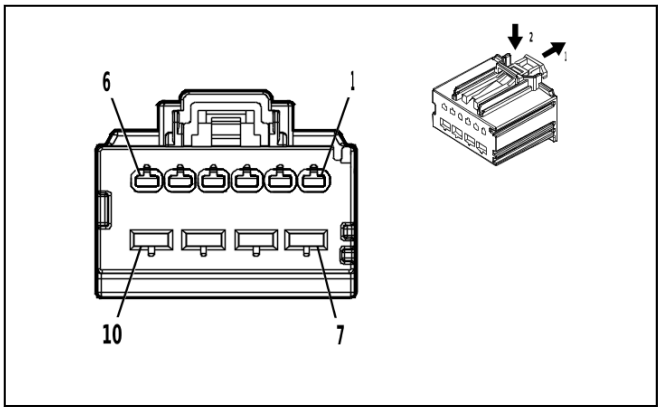
K20 Engine Control Module X3 (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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) 0.75	(16) YE	(16) 7301	(16) High Pressure Fuel Pump High Control	(16) II	(16) —
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.5	(18) WH / RD	(18) 11031	(18) Fuel Tank Isolation Valve Supply Voltage	(18) II	(18) —
19 - 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) 0.75	(32) VT / BK	(32) 7300	(32) High Pressure Fuel Pump Low Control	(32) II	(32) —
33 - 35	—	—	—	Not Occupied	—	—
(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) 0.75	(44) VT / BU	(44) 5292	(44) Powertrain Main Relay Fused Supply Voltage 3	(44) II	(44) —
(45) 45	(45) 0.75	(45) GN	(45) 4803	(45) Direct Fuel Injector High Voltage Control Cylinder 3	(45) II	(45) —
(46) 46	(46) 0.75	(46) GY / BU	(46) 4804	(46) Direct Fuel Injector High Voltage Control Cylinder 4	(46) II	(46) —
(47) 47	(47) 0.75	(47) WH / GN	(47) 4805	(47) Direct Fuel Injector High Voltage Control Cylinder 5	(47) II	(47) —
(48) 48	(48) 0.75	(48) VT / GN	(48) 4806	(48) Direct Fuel Injector High Voltage Control Cylinder 6	(48) II	(48) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(49) 49	(49) 0.75	(49) BU	(49) 4802	(49) Direct Fuel Injector High Voltage Control Cylinder 2	(49) II	(49) —
(50) 50	(50) 0.75	(50) YE / GY	(50) 4807	(50) Direct Fuel Injector High Voltage Control Cylinder 7	(50) II	(50) —
(51) 51	(51) 0.75	(51) GY	(51) 4808	(51) Direct Fuel Injector High Voltage Control Cylinder 8	(51) II	(51) —
(52) 52	(52) 0.75	(52) BN	(52) 4801	(52) Direct Fuel Injector High Voltage Control Cylinder 1	(52) II	(52) —
53 - 54	—	—	—	Not Occupied	—	—
(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) 10786	(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) 0.75	(65) GN / GY	(65) 4903	(65) Direct Fuel Injector High Voltage Supply Cylinder 3	(65) II	(65) —
(66) 66	(66) 0.75	(66) BU / WH	(66) 4904	(66) Direct Fuel Injector High Voltage Supply Cylinder 4	(66) II	(66) —
(67) 67	(67) 0.75	(67) GN / WH	(67) 4905	(67) Direct Fuel Injector High Voltage Supply Cylinder 5	(67) II	(67) —
(68) 68	(68) 0.75	(68) VT / GY	(68) 4906	(68) Direct Fuel Injector High Voltage Supply Cylinder 6	(68) II	(68) —
(69) 69	(69) 0.75	(69) BU / GY	(69) 4902	(69) Direct Fuel Injector High Voltage Supply Cylinder 2	(69) II	(69) —
(70) 70	(70) 0.75	(70) WH / YE	(70) 4907	(70) Direct Fuel Injector High Voltage Supply Cylinder 7	(70) II	(70) —
(71) 71	(71) 0.75	(71) GY / WH	(71) 4908	(71) Direct Fuel Injector High Voltage Supply Cylinder 8	(71) II	(71) —
(72) 72	(72) 0.75	(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)

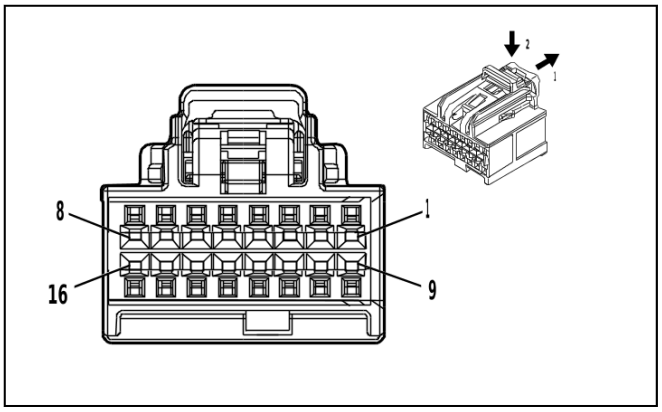
Terminal Part Information

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) —
(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)

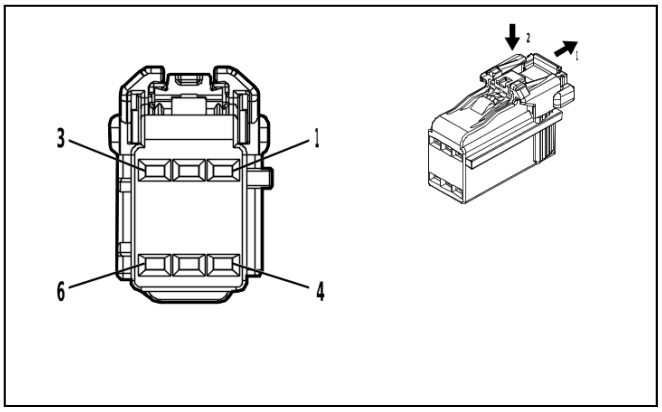
Terminal Part Information

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) —
(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	—	—

K32 Heated Steering Wheel Module X1 (KI3)



4862126

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 6098-8996
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.2 Series(BK)

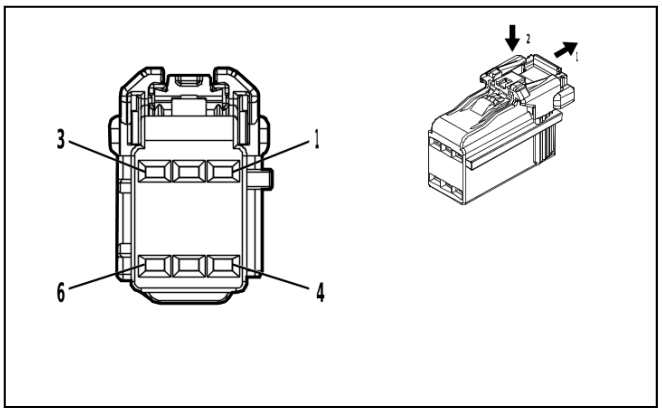
Terminal Part Information

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)

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) 50	(4) 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 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)

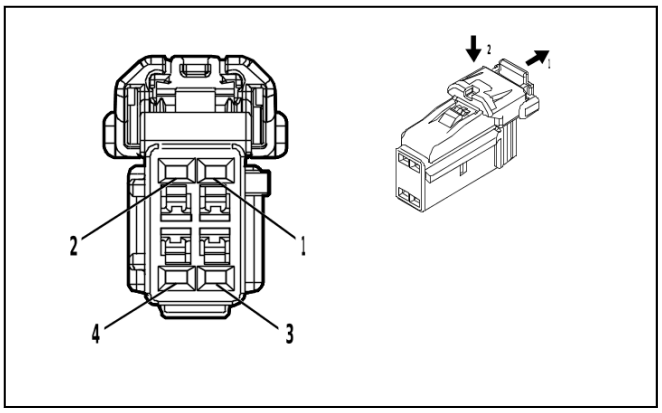
Terminal Part Information

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) 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) 6050	(4) Steering Wheel 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 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)

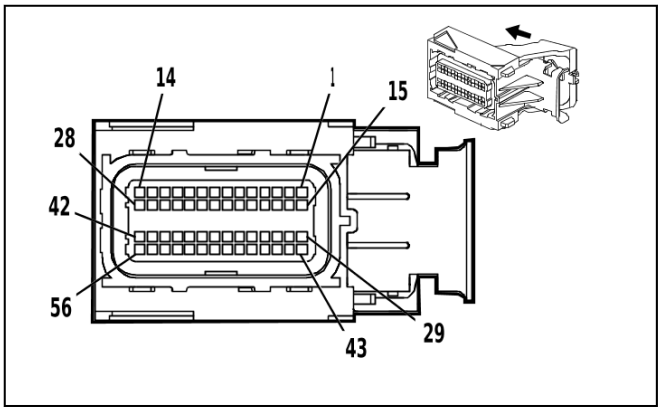
Terminal Part Information

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

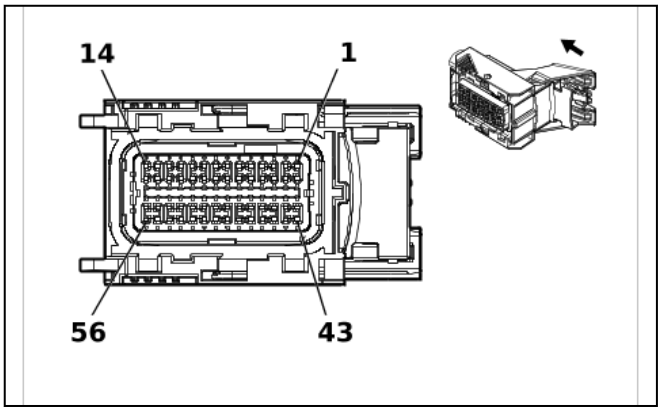
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19354746	J-35616-64B (L-BU)	J-38125-215A

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) 0.35	(13) YE / OG	(13) 3025	(13) Passenger Instrument Panel Air Bag Stage 1 High Control	(13) I	(13) —
(14) 14	(14) 0.35	(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) 0.35	(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) 0.35	(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) 0.35	(38) OG / VT	(38) 3026	(38) Passenger Instrument Panel Air Bag Stage 2 Low Control	(38) I	(38) —
(39) 39	(39) 0.35	(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) 0.35	(50) BN / WH	(50) 3895	(50) Roof Rail Air Bag Disable Switch Low Reference	(50) I	(50) —
(51) 51	(51) 0.35	(51) BU / WH	(51) 3119	(51) Roof Rail Air Bag Disable Switch Signal	(51) I	(51) —
52	—	—	—	Not Occupied	—	—
(53) 53	(53) 0.35	(53) WH / OG	(53) 3022	(53) Steering Wheel Air Bag Stage 2 Low Control	(53) I	(53) —
(54) 54	(54) 0.35	(54) OG / GN	(54) 3023	(54) Steering Wheel Air Bag Stage 2 High Control	(54) I	(54) —
(55) 55	(55) 0.35	(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

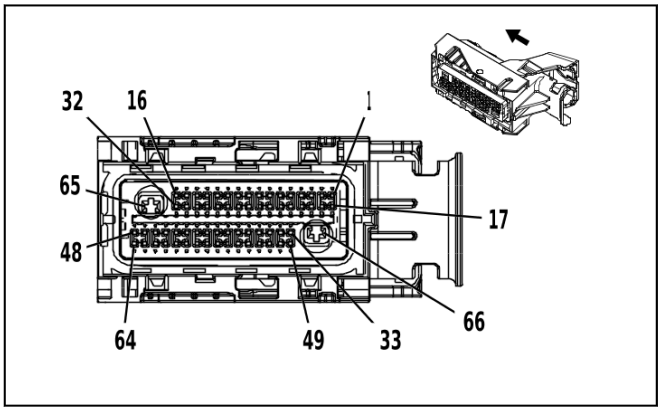
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19354746	J-35616-64B (L-BU)	J-38125-215A

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) 0.35	(12) OG / BN	(12) 238	(12) Driver Seat Belt Switch 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) 0.35	(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



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)

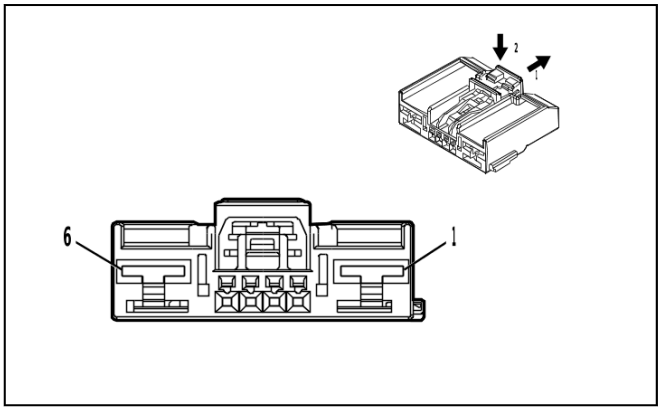
Terminal Part Information

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-38125-215A

K38 Chassis Control Module

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 - 33	—	—	—	Not Occupied	—	—
(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) 0.75	(44) GY / BK	(44) 7253	(44) Rear Differential Lock Actuator Low Control	(44) II	(44) —
45 - 49	—	—	—	Not Occupied	—	—
(50) 50	(50) 0.75	(50) VT / BN	(50) 7258	(50) Rear Differential Lock Actuator Control	(50) II	(50) —
51 - 64	—	—	—	Not Occupied	—	—
(65) 65	(65) 1.5	(65) BK	(65) 1850	(65) Ground	(65) I	(65) —
(66) 66	(66) 1.5	(66) RD / BN	(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_A45
- OEM Connector: 7289-7139-30
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64, 6.3 Series(BK)

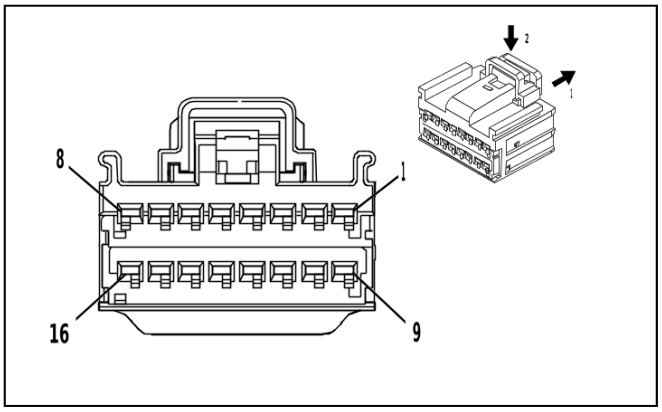
Terminal Part Information

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_A45
- OEM Connector: 15512506
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way F 1.5 OCS Series(BK)

Terminal Part Information

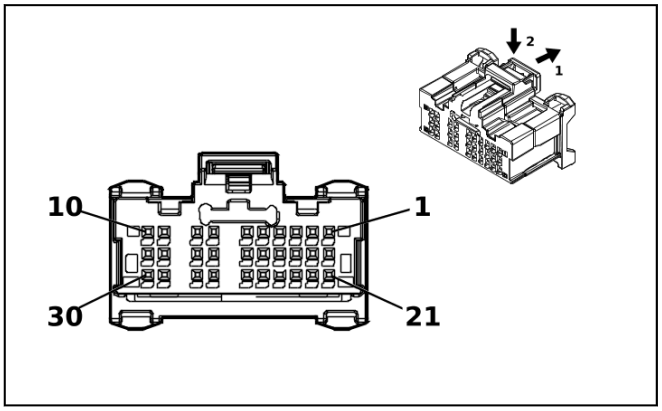
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
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_A45
- OEM Connector: 2309644-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 30-Way F 0.5 MQS Series(BK)

Terminal Part Information

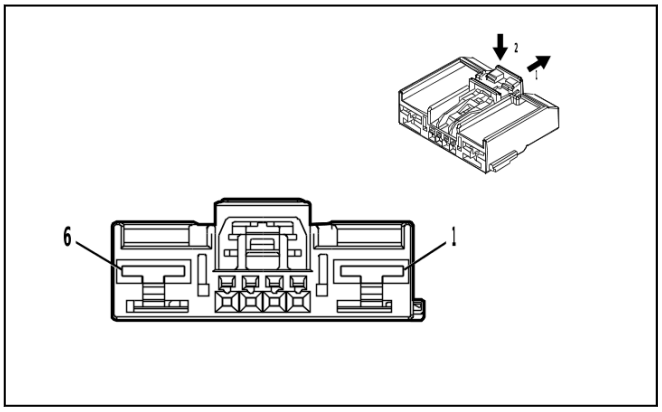
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
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) —
(20) 20	(20) 0.35	(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)

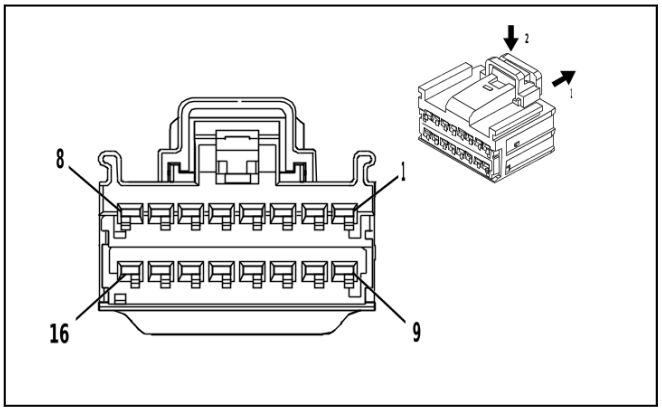
Terminal Part Information

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

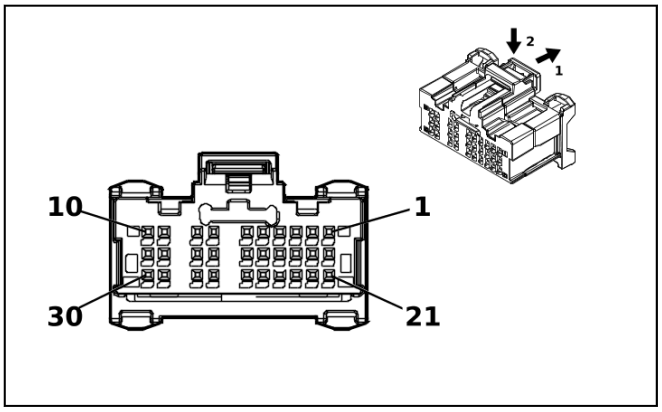
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required

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	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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

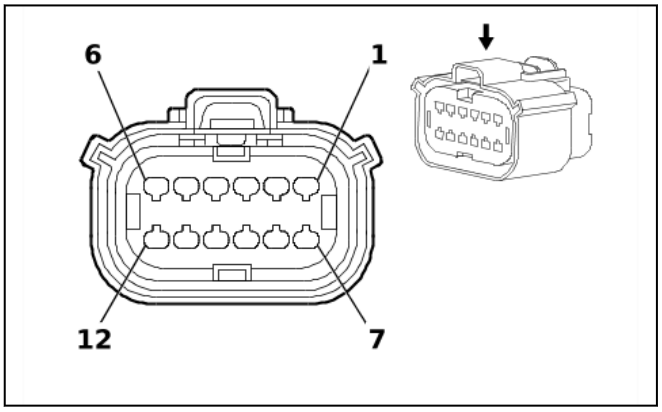
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

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) 0.35	(10) BU / VT	(10) 4101	(10) AUTOSAR CAN Bus [+] 4 Serial Data	(10) I	(10) —
11 - 17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.35	(18) GN / YE	(18) 4116	(18) Passenger 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) 0.35	(20) BU / VT	(20) 4101	(20) AUTOSAR CAN Bus [+] 4 Serial Data	(20) I	(20) —
21	—	—	—	Not Occupied	—	—
(22) 22	(22) 0.35	(22) BN / VT	(22) 2452	(22) Seat Memory Module Configuration 2	(22) I	(22) —
(23) 23	(23) 0.35	(23) BN / VT	(23) 2452	(23) Seat Memory Module Configuration 2	(23) I	(23) —
24 - 30	—	—	—	Not Occupied	—	—

K43 Power Steering Control Module X1



1825165

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 33472-1216
- Service Connector: 19352907
- Description: 12-Way F 1.5 MX Series, Sealed(BK)

Terminal Part Information

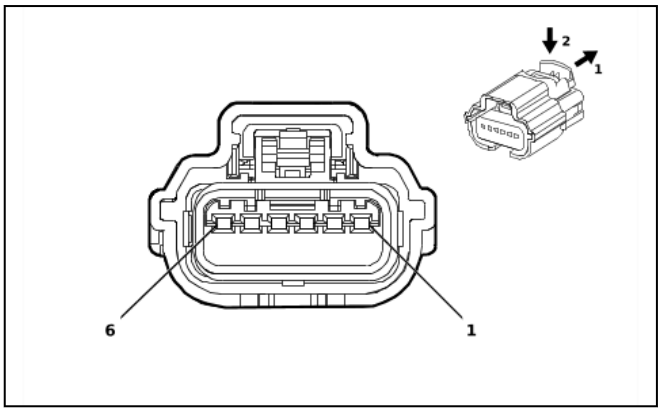
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217

K43 Power Steering Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU	(1) 4987	(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 - 4	—	—	—	Not Occupied	—	—
(5) 5	(5) 0.5	(5) RD / WH	(5) 5740	(5) Battery Positive Voltage	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) BU	(7) 4987	(7) AUTOSAR CAN Bus [+] 1 Serial Data	(7) I	(7) —
(8) 8	(8) 0.5	(8) WH	(8) 4986	(8) AUTOSAR CAN Bus [-] 1 Serial Data	(8) I	(8) —
9 - 10	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(11) 11	(11) 1	(11) BK / WH	(11) 1151	(11) Signal Ground	(11) I	(11) —
12	—	—	—	Not Occupied	—	—

K43 Power Steering Control Module X2



5157678

Connector Part Information

- Harness Type: Power Steering Control Module Wiring Harness
- OEM Connector: 31404-7132
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 64 Series, Sealed(BK)

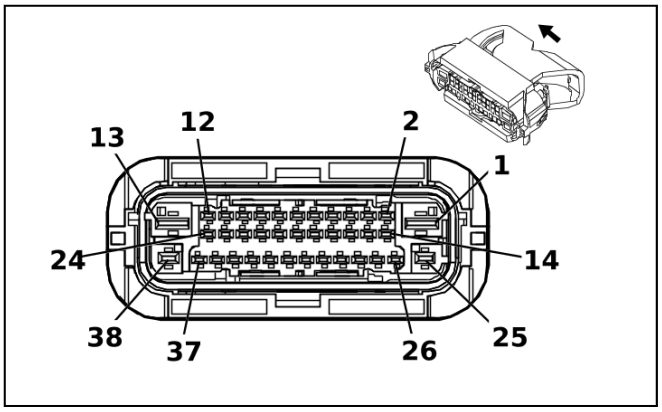
Terminal Part Information

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

K43 Power Steering Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.8	(1) BN	(1) 1151	(1) Signal Ground	(1) I	(1) —
(2) 2	(2) 0.5	(2) RD	(2) 3130	(2) Hydrocarbon Injection Pressure Sensor 5V Reference	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.5	(4) WH	(4) 3128	(4) Hydrocarbon Injection Pressure Sensor Signal	(4) I	(4) —
(5) 5	(5) 0.5	(5) GN	(5) 3129	(5) Hydrocarbon Injection Pressure Sensor Low Reference	(5) I	(5) —
(6) 6	(6) 0.5	(6) BK	(6) 8023	(6) Hydraulic Pressure Sensor Low Reference	(6) I	(6) —

K44 Power Takeoff Control Module X1



5199902

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 35503406
- Service Connector: 85761012
- Description: 38-Way F 1.5, 2.8, 4.8 MCP Series, Sealed(BK with BK Inner Connector)

Terminal Part Information

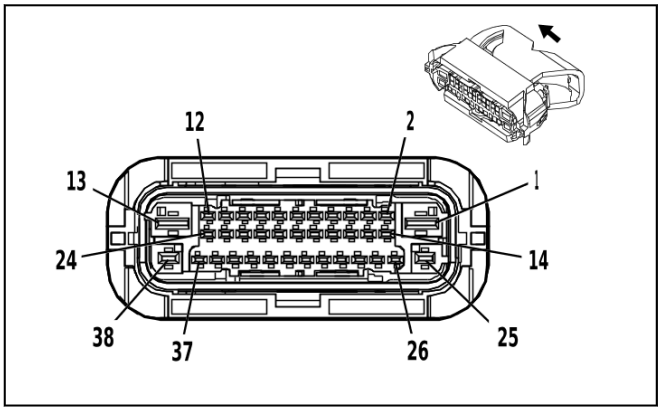
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19119379	J-35616-40 (BU)	J-38125-556
II	19119772	J-35616-35 (VT)	J-38125-557
III	19301775	J-35616-40 (BU)	J-38125-556
IV	19301776	J-35616-14 (GN)	J-38125-215A

K44 Power Takeoff Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / BU	(1) 4540	(1) Battery Positive Voltage	(1) III	(1) —
2 - 12	—	—	—	Not Occupied	—	—
(13) 13	(13) 1.5	(13) BK / WH	(13) 251	(13) Signal Ground	(13) I	(13) —
(14) 14	(14) 0.5	(14) VT / GN	(14) 4320	(14) Powertrain Sensor Bus Enable	(14) IV	(14) —
(15) 15	(15) 0.5	(15) GN / WH	(15) 488	(15) Power Take-Off Control Switch Signal	(15) IV	(15) —
16 - 17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.5	(18) BN / GN	(18) 4311	(18) Power Take-Off Enable Cabin Switch Normally Closed Signal	(18) IV	(18) —
19 - 21	—	—	—	Not Occupied	—	—
(22) 22	(22) 0.5	(22) BN / YE	(22) 11438	(22) Power Take Off Wakeup Signal	(22) IV	(22) —
23 - 24	—	—	—	Not Occupied	—	—
(25) 25	(25) 0.5	(25) GY / GN	(25) 6239	(25) Transmission Power Take-Off Engage/ Disengage Signal Power	(25) II	(25) —
(26) 26	(26) 0.5	(26) WH	(26) 4055	(26) Private Serial Data Powertrain CAN Bus [+] Serial Data	(26) IV	(26) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(27) 27	(27) 0.5	(27) WH	(27) 4055	(27) Private Serial Data Powertrain CAN Bus [+] Serial Data	(27) IV	(27) —
(28) 28	(28) 0.5	(28) BU / GY	(28) 4054	(28) Private Serial Data Powertrain CAN Bus [-] Serial Data	(28) IV	(28) —
(29) 29	(29) 0.5	(29) BU / GY	(29) 4054	(29) Private Serial Data Powertrain CAN Bus [-] Serial Data	(29) IV	(29) —
30 - 38	—	—	—	Not Occupied	—	—

K44 Power Takeoff Control Module X2



5141918

Connector Part Information
- Harness Type: Engine 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

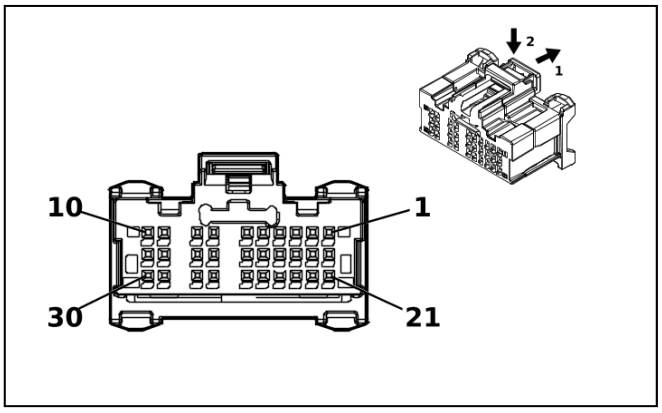
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19369235	J-35616-14 (GN)	EL-38125-560A
II	85158596	J-35616-40 (BU)	J-38125-556

K44 Power Takeoff Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.5	(8) WH / BK	(8) 8238	(8) Power Take Off Upfitter Interlock Switch Signal 2	(8) I	(8) —
(9) 9	(9) 0.5	(9) GN / WH	(9) 8236	(9) Power Take Off Solenoid Control Low	(9) I	(9) —
(10) 10	(10) 0.5	(10) GN / WH	(10) 8236	(10) Power Take Off Solenoid Control Low	(10) I	(10) —
11 - 12	—	—	—	Not Occupied	—	—
(13) 13	(13) 0.5	(13) BU / WH	(13) 8235	(13) Power Take Off Solenoid Control High	(13) II	(13) —
14 - 16	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(17) 17	(17) 0.5	(17) WH	(17) 8232	(17) Power Take Off Pressure Sensor 5 Volt Reference	(17) I	(17) —
(18) 18	(18) 0.5	(18) YE	(18) 8233	(18) Power Take Off Pressure Sensor Low Reference	(18) I	(18) —
(19) 19	(19) 0.5	(19) BN / WH	(19) 8234	(19) Power Take Off Pressure Sensor Signal	(19) I	(19) —
20 - 27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.5	(28) WH / GN	(28) 6142	(28) Power Take-Off Engine Shutdown Signal	(28) I	(28) —
29 - 34	—	—	—	Not Occupied	—	—
(35) 35	(35) 0.5	(35) VT / GN	(35) 4308	(35) Power Take-Off Remote Throttle Signal	(35) I	(35) —
(36) 36	(36) 0.5	(36) BU / BN	(36) 4408	(36) Power Take-Off Enable Signal	(36) I	(36) —
37 - 38	—	—	—	Not Occupied	—	—

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

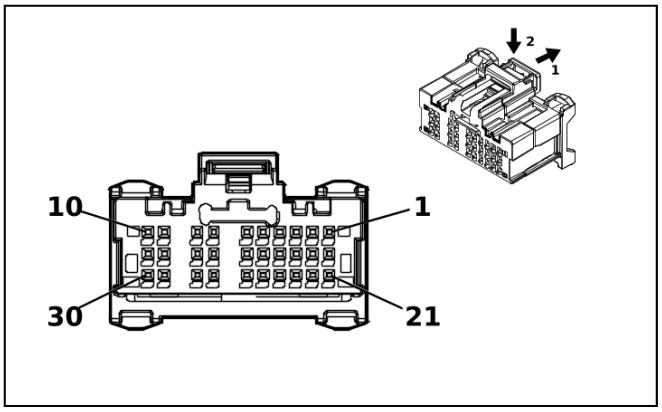
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58

K56 Serial Data Gateway Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) RD / VT	(1) 3340	(1) Battery Positive Voltage	(1) I	(1) —
2 - 3	—	—	—	Not Occupied	—	—
(4) 4	(4) 0.35	(4) BK / WH	(4) 851	(4) Signal Ground	(4) I	(4) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(5) 5	(5) 0.35	(5) BU	(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	(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) 0.35	(10) BU / BK	(10) 4977	(10) AUTOSAR CAN Bus [+] 3 Serial Data	(10) I	(10) —
11 - 14	—	—	—	Not Occupied	—	—
(15) 15	(15) 0.35	(15) BU	(15) 4987	(15) AUTOSAR CAN Bus [+] 1 Serial Data	(15) I	(15) —
(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) WH	(17) 4978	(17) AUTOSAR CAN Bus [-] 2 Serial Data	(17) I	(17) —
(18) 18	(18) 0.35	(18) BU / YE	(18) 4979	(18) AUTOSAR CAN Bus [+] 2 Serial Data	(18) I	(18) —
(19) 19	(19) 0.35	(19) BU / YE	(19) 4984	(19) AUTOSAR CAN Bus [-] 5 Serial Data	(19) I	(19) —
(20) 20	(20) 0.35	(20) BU / WH	(20) 4985	(20) AUTOSAR CAN Bus [+] 5 Serial Data	(20) I	(20) —
21 - 24	—	—	—	Not Occupied	—	—
(25) 25	(25) 0.35	(25) BU	(25) 4987	(25) AUTOSAR CAN Bus [+] 1 Serial Data	(25) I	(25) —
(26) 26	(26) 0.35	(26) WH	(26) 4986	(26) AUTOSAR CAN Bus [-] 1 Serial Data	(26) I	(26) —
(27) 27	(27) 0.35	(27) WH	(27) 4978	(27) AUTOSAR CAN Bus [-] 2 Serial Data	(27) I	(27) —
(28) 28	(28) 0.35	(28) BU / YE	(28) 4979	(28) AUTOSAR CAN Bus [+] 2 Serial Data	(28) I	(28) —
(29) 29	(29) 0.35	(29) BU / YE	(29) 4984	(29) AUTOSAR CAN Bus [-] 5 Serial Data	(29) I	(29) —
(30) 30	(30) 0.35	(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

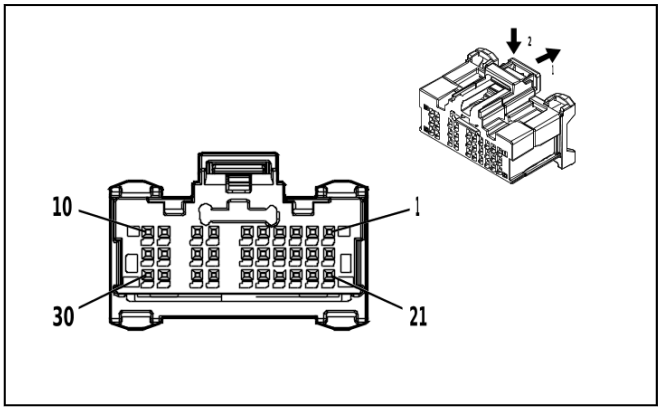
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	Service by Cable	EL-35616-58 (BK)	EL-38125-58

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) 0.35	(10) YE	(10) 4972	(10) Ethernet Bus 1R [-]	(10) II	(10) —
11 - 12	—	—	—	Not Occupied	—	—
(13) 13	(13) 0.35	(13) BU / BN	(13) 4983	(13) AUTOSAR CAN Bus [+] 7 Serial Data	(13) I	(13) —
(14) 14	(14) 0.35	(14) WH	(14) 4982	(14) AUTOSAR CAN Bus [-] 7 Serial Data	(14) I	(14) —
(15) 15	(15) 0.35	(15) GN / BK	(15) 3558	(15) Passive Start Switch Signal 2	(15) I	(15) —
(16) 16	(16) 0.35	(16) WH	(16) 4980	(16) AUTOSAR CAN Bus [-] 6 Serial Data	(16) I	(16) —
(17) 17	(17) 0.35	(17) GN	(17) 2578	(17) Private Serial Data Presentation CAN Bus [+] 1 Serial Data	(17) I	(17) —
(18) 18	(18) 0.35	(18) BN	(18) 2577	(18) Private Serial Data Presentation CAN Bus [-] 1 Serial Data	(18) I	(18) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(19) 19	(19) 0.35	(19) WH	(19) 7207	(19) Ethernet Bus 1 Enable Signal	(19) I	(19) —
20 - 22	—	—	—	Not Occupied	—	—
(23) 23	(23) 0.35	(23) BU / WH	(23) 4985	(23) AUTOSAR CAN Bus [+] 5 Serial Data	(23) I	(23) —
(24) 24	(24) 0.35	(24) BU / YE	(24) 4984	(24) AUTOSAR CAN Bus [-] 5 Serial Data	(24) I	(24) —
25	—	—	—	Not Occupied	—	—
(26) 26	(26) 0.35	(26) YE	(26) 4981	(26) AUTOSAR CAN Bus [+] 6 Serial Data	(26) I	(26) —
(27) 27	(27) 0.35	(27) VT	(27) 2580	(27) Private Serial Data Presentation CAN Bus [+] 2 Serial Data	(27) I	(27) —
(28) 28	(28) 0.35	(28) GY	(28) 2579	(28) Private Serial Data Presentation CAN Bus [-] 2 Serial Data	(28) I	(28) —
(29) 29	(29) 0.35	(29) BU	(29) 4975	(29) Ethernet Bus 1T [+]	(29) II	(29) —
(30) 30	(30) 0.35	(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)

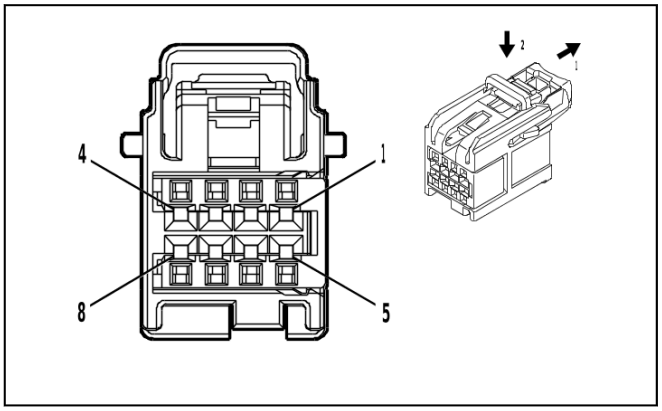
Terminal Part Information

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+ 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+ UE1
(9) 9	(9) 0.35	(9) YE	(9) 4758	(9) Ethernet Bus 2 [+]	(9) I	(9) —
(10) 10	(10) 0.35	(10) BU	(10) 4757	(10) Ethernet Bus 2 [-]	(10) I	(10) —
11 - 26	—	—	—	Not Occupied	—	—
(27) 27	(27) 0.35	(27) GN	(27) 7217	(27) Ethernet Bus 7 [+]	(27) I	(27) —
(28) 28	(28) 0.35	(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

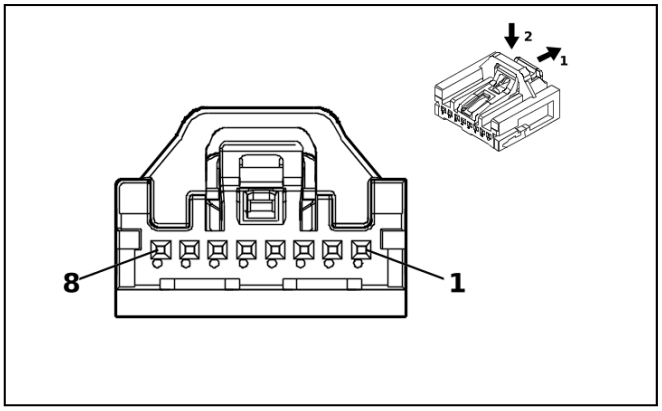
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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)

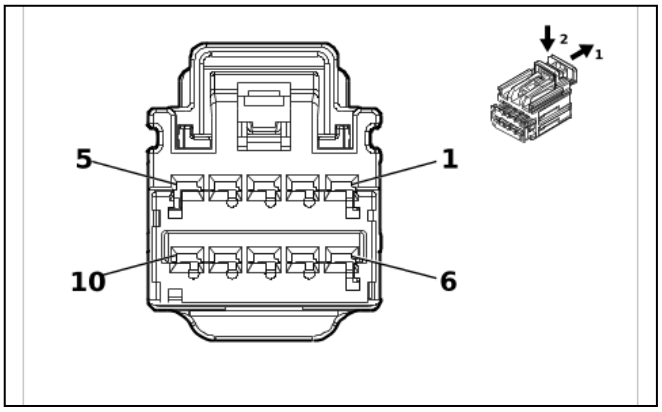
Terminal Part Information

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 / VT	(1) 3340	(1) Battery Positive Voltage	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) BK	(3) 1050	(3) 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	(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	(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



6153939

Connector Part Information

- Harness Type: Sunroof Wiring Harness
- OEM Connector: 15512475
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 1.5 OCS Series(BK)

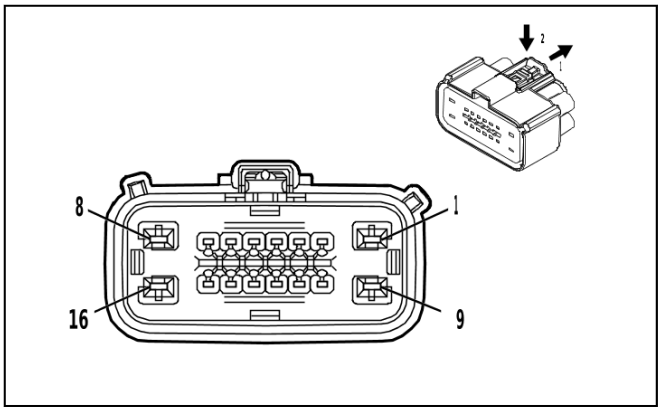
Terminal Part Information

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

K61 Sunroof Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.35	(6) GN / BN	(6) 2854	(6) Body Control Module LIN Bus 8	(6) I	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 1.5	(8) RD / GY	(8) 4540	(8) Battery Positive Voltage	(8) I	(8) —
9	—	—	—	Not Occupied	—	—
(10) 10	(10) 1.5	(10) BK	(10) 1050	(10) Ground	(10) I	(10) —

K67 Trailer Brake Control Module



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)

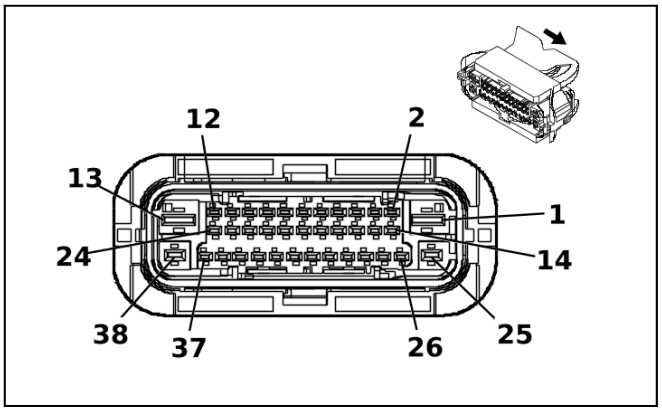
Terminal Part Information

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

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



5199340

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 35810688
- Service Connector: 86825458
- Description: 38-Way F 1.5, 2.8, 4.8 MCP Series, Sealed(BK with BN Inner Connector)

Terminal Part Information

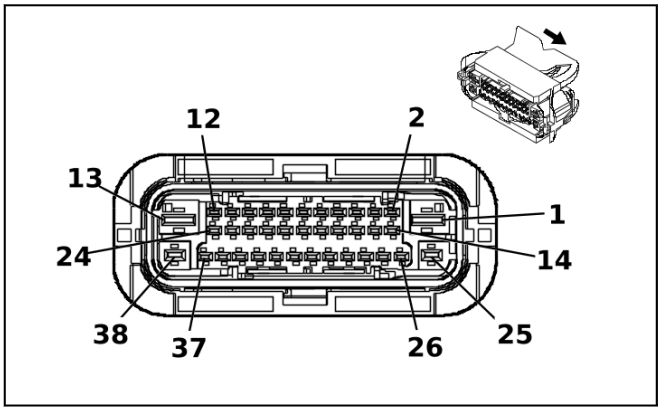
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368624	J-35616-35 (VT)	J-38125-557
II	19369235	J-35616-14 (GN)	EL-38125-560A
III	85158596	J-35616-40 (BU)	J-38125-556

K68 Trailer Lamp Control Module

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) 0.5	(10) VT / BK	(10) 739	(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



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

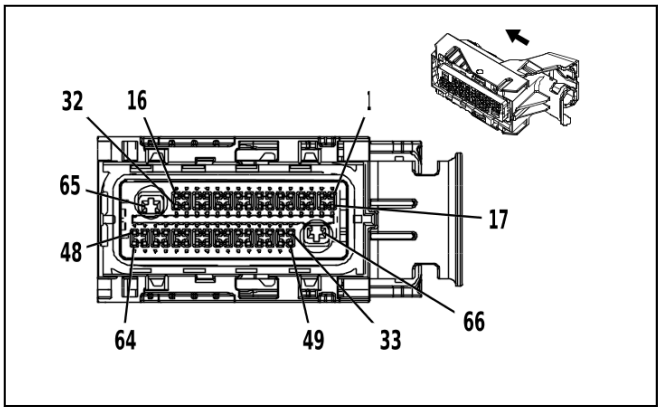
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368624	J-35616-35 (VT)	J-38125-557
II	19369235	J-35616-14 (GN)	EL-38125-560A
III	85158596	J-35616-40 (BU)	J-38125-556

K69 Transfer Case Control Module

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) 0.75	(33) BU	(33) 8013	(33) Transfer Case Lock Solenoid Control 2	(33) II	(33) —
(34) 34	(34) 0.75	(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



4504420

Connector Part Information

- Harness Type: Engine 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

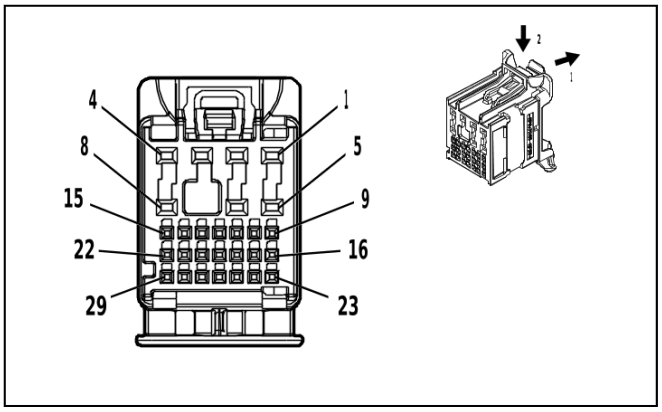
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13587518	J-35616-35 (VT)	J-38125-11A
II	19354746	J-35616-64B (L-BU)	J-38125-215A

K71 Transmission Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / WH	(1) 422	(1) Torque Converter Clutch Solenoid Valve Control	(1) II	(1) —
(2) 2	(2) 0.5	(2) GY / GN	(2) 6403	(2) Clutch Solenoid Valve D Control	(2) II	(2) —
(3) 3	(3) 0.5	(3) WH / BU	(3) 4507	(3) Transmission Clutch H Control	(3) II	(3) —
(4) 4	(4) 0.5	(4) WH	(4) 4508	(4) Transmission Clutch G Control	(4) II	(4) —
5 - 6	—	—	—	Not Occupied	—	—
(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) —
9 - 11	—	—	—	Not Occupied	—	—
(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) —
(14) 14	(14) 0.5	(14) GY / BU	(14) 6358	(14) Output Speed Signal	(14) II	(14) —
(15) 15	(15) 0.5	(15) BN / WH	(15) 6254	(15) Transmission Input Speed Sensor Signal	(15) II	(15) —
16	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(17) 17	(17) 0.5	(17) GN / WH	(17) 1530	(17) Transmission Line Pressure Control Solenoid Valve Control	(17) II	(17) —
(18) 18	(18) 0.5	(18) YE / BN	(18) 6404	(18) Clutch Solenoid Valve E Control	(18) II	(18) —
(19) 19	(19) 0.5	(19) GY	(19) 6402	(19) Clutch Solenoid Valve C Control	(19) II	(19) —
(20) 20	(20) 0.5	(20) VT	(20) 4509	(20) Transmission Clutch F Control	(20) II	(20) —
21	—	—	—	Not Occupied	—	—
(22) 22	(22) 0.5	(22) GN / BK	(22) 7819	(22) Default Disable Solenoid Control	(22) II	(22) —
23 - 27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.5	(28) BK / BN	(28) 586	(28) Transmission Fluid Temperature Sensor Low Reference	(28) II	(28) —
29 - 32	—	—	—	Not Occupied	—	—
(33) 33	(33) 0.5	(33) GN / GY	(33) 6387	(33) Transmission High Side Driver 1 Control	(33) II	(33) —
34	—	—	—	Not Occupied	—	—
(35) 35	(35) 0.5	(35) VT / GN	(35) 439	(35) Run/Crank Ignition 1 Voltage	(35) II	(35) —
36	—	—	—	Not Occupied	—	—
(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) —
39 - 48	—	—	—	Not Occupied	—	—
(49) 49	(49) 0.5	(49) GY / BN	(49) 6388	(49) Transmission High Side Driver 2 Control	(49) II	(49) —
50 - 52	—	—	—	Not Occupied	—	—
(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) —
55 - 62	—	—	—	Not Occupied	—	—
(63) 63	(63) 0.5	(63) BN / WH	(63) 585	(63) Transmission Fluid Temperature Sensor Signal	(63) II	(63) —
(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)

Terminal Part Information

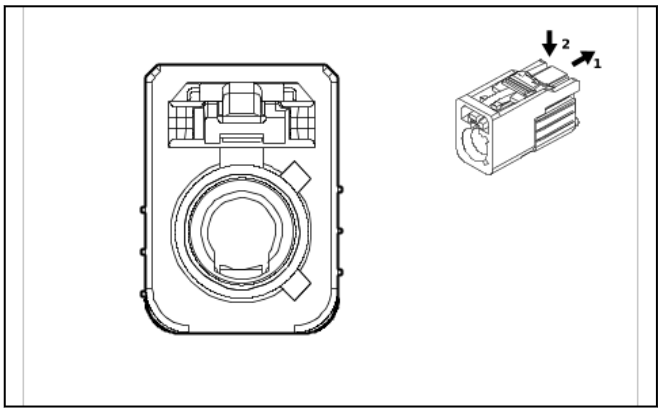
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A
III	Service by Cable	EL-35616-58 (BK)	EL-38125-58

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) —
(10) 10	(10) 0.35	(10) BU / WH	(10) 4985	(10) AUTOSAR CAN Bus [+] 5 Serial Data	(10) I	(10) —
(11) 11	(11) 0.35	(11) GN / WH	(11) 2514	(11) Telematics Switch Signal	(11) I	(11) —
12	—	—	—	Not Occupied	—	—
(13) 13	(13) 0.35	(13) BARE	(13) 1792	(13) Low Reference	(13) I	(13) —
(14) 14	(14) 0.35	(14) BK / GY	(14) 5152	(14) Voice Recognition Audio [-] Control	(14) I	(14) —
(15) 15	(15) 0.35	(15) GY / YE	(15) 5149	(15) Voice Recognition Audio Signal	(15) I	(15) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(16) 16	(16) 0.35	(16) BU / YE	(16) 4984	(16) AUTOSAR CAN Bus [-] 5 Serial Data	(16) I	(16) —
(17) 17	(17) 0.35	(17) BU / WH	(17) 4985	(17) AUTOSAR CAN Bus [+] 5 Serial Data	(17) I	(17) —
18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.35	(19) YE / VT	(19) 2516	(19) Telematics Switch Green LED Indicator Control	(19) I	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.35	(21) BK / BN	(21) 654	(21) Cellular Telephone Microphone Low Reference	(21) I	(21) —
(22) 22	(22) 0.35	(22) BU	(22) 655	(22) Cellular Telephone Microphone Signal	(22) I	(22) —
23 - 25	—	—	—	Not Occupied	—	—
(26) 26	(26) 0.35	(26) BN / WH	(26) 2517	(26) Telematics Switch Red LED Indicator Control	(26) I	(26) —
27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.35	(28) BN	(28) 7211	(28) Ethernet Bus 4 [+]	(28) III	(28) —
(29) 29	(29) 0.35	(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)

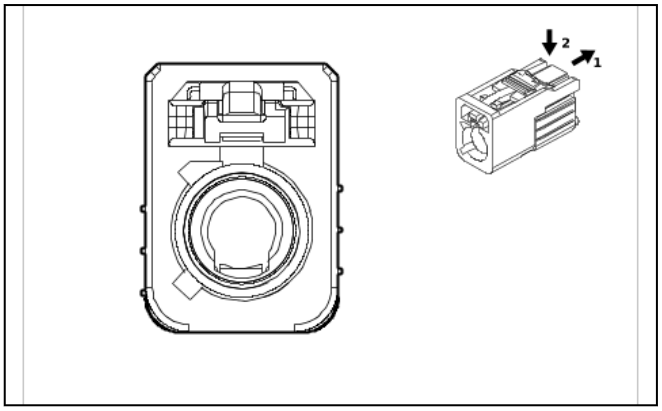
Terminal Part Information

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)

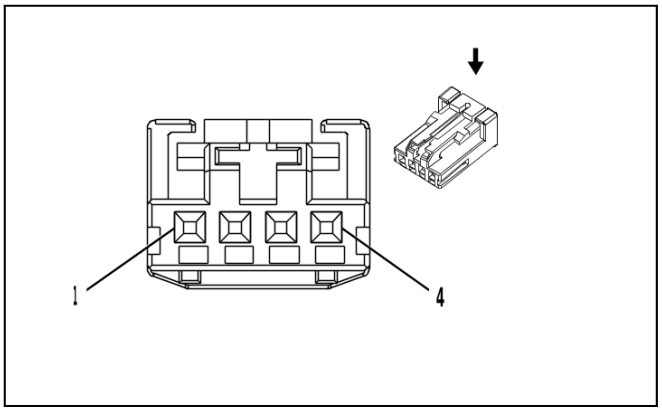
Terminal Part Information

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)

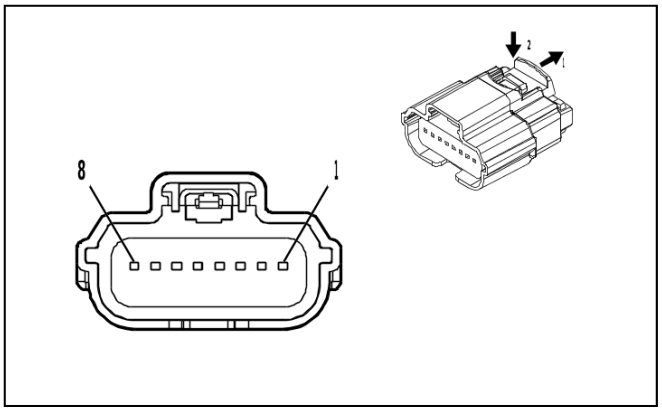
Terminal Part Information

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) 0.5	(2) GN / YE (2) GN / YE	(2) 2862 (2) 2862	(2) Body Control Module LIN Bus 16 (2) Body Control Module LIN Bus 16	(2) I (2) I	(2) (AVJ/ AQQ) + UET (2) (AVJ/ AQQ) - UET
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)

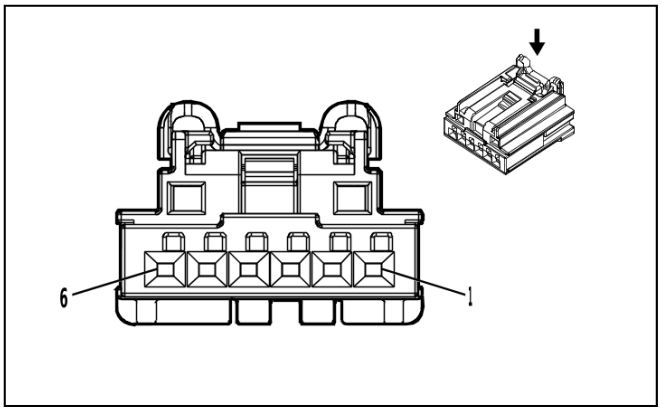
Terminal Part Information

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) —

K104D Front Seat Bladder Control Module - Driver



5020940

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 2035363-6
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

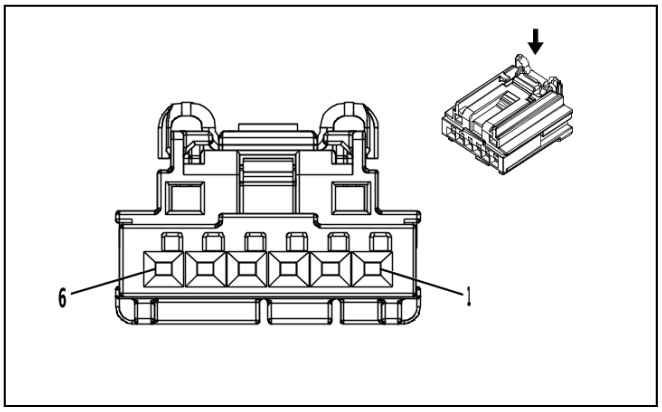
Terminal Part Information

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

K104D Front Seat Bladder Control Module - Driver

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 / GY	(2) 3758	(2) Driver Seat Adjuster Memory Module LIN Bus 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH / BU	(3) 4891	(3) Driver Seat Lumbar/Bolster Pump Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 1550	(4) Ground	(4) I	(4) —
(5) 5	(5) 0.5	(5) BN / BK	(5) 2305	(5) Driver Seat Bolster Pump Low Reference	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

K104DP Front Seat Bladder Control Module - Driver Primary (AF6)



3960313

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 2035363-4
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

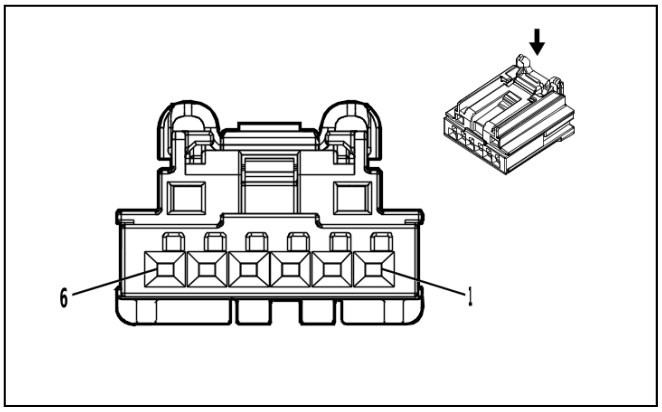
Terminal Part Information

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

K104DP Front Seat Bladder Control Module - Driver Primary (AF6)

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 / GY	(2) 3758	(2) Driver Seat Adjuster Memory Module LIN Bus 2	(2) I	(2) —
(3) 3	(3) 0.5	(3) WH / BU	(3) 4891	(3) Driver Seat Lumbar/Bolster Pump Control	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK	(4) 1550	(4) Ground	(4) I	(4) —
(5) 5	(5) 0.5	(5) BN / BK	(5) 2305	(5) Driver Seat Bolster Pump Low Reference	(5) I	(5) —
(6) 6	(6) 0.5	(6) GN / BK	(6) 2637	(6) Front Seat Bolster Memory Module - Driver LIN Bus 1	(6) I	(6) —

K104DS Front Seat Bladder Control Module - Driver Secondary



5020940

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 2035363-6
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

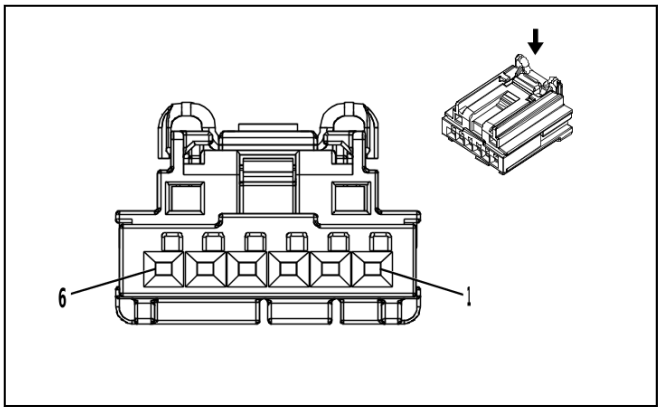
Terminal Part Information

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

K104DS Front Seat Bladder Control Module - Driver Secondary

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 / 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)

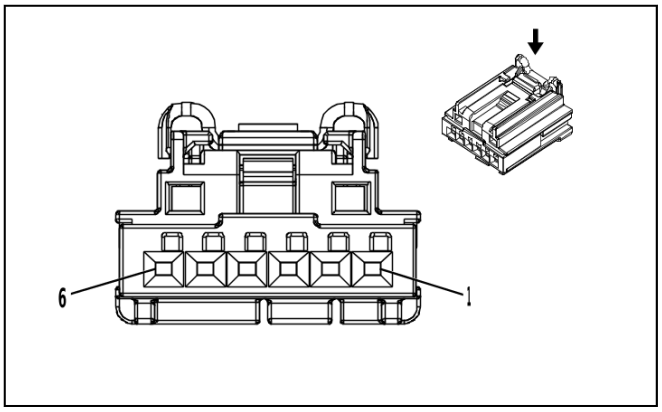
Terminal Part Information

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

K104P Front Seat Bladder Control Module - Passenger (AVU - (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) 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) —

K104PP Front Seat Bladder Control Module - Passenger Primary (AVU & (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)

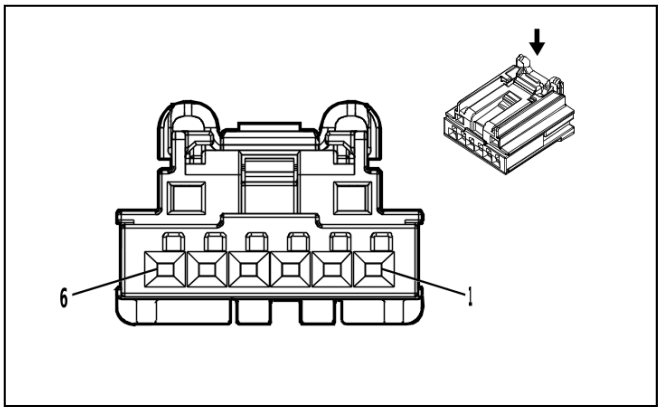
Terminal Part Information

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

K104PP Front Seat Bladder Control Module - Passenger Primary (AVU & (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) 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 / AHH))



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)

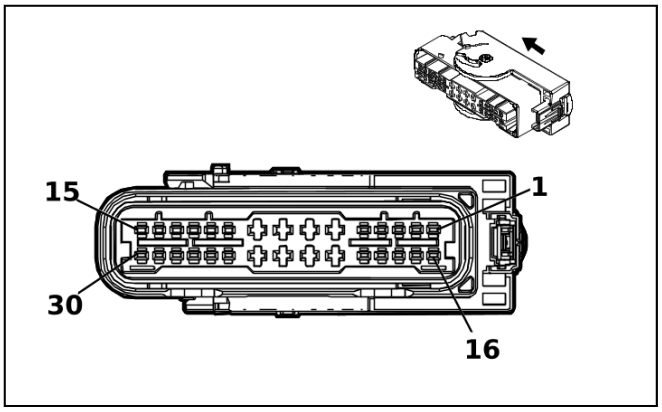
Terminal Part Information

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 / 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) 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 - Chassis Cab (L5P - N2N)



3240109

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 5-2109446-7
- Service Connector: 86545828
- Description: 30-Way F 1.5, 2.8 MCP Series, Sealed(BK)

Terminal Part Information

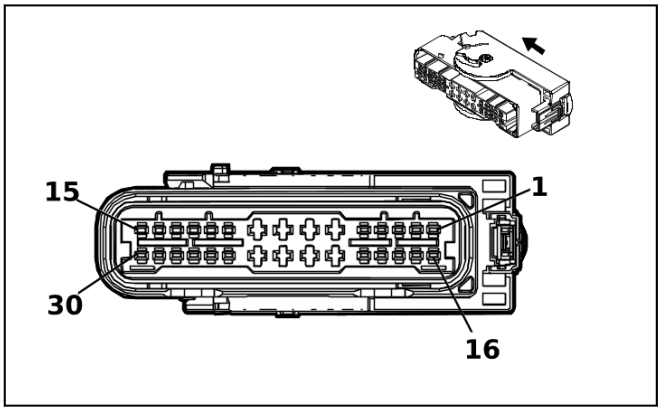
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19329958	J-35616-2A (GY)	J-38125-560
II	19371214	J-35616-35 (VT)	J-38125-556

K111 Fuel Pump Power Control Module - Chassis Cab (L5P - N2N)

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 - 11	—	—	—	Not Occupied	—	—
(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) 1	(16) VT / GN	(16) 4320	(16) Powertrain Sensor Bus Enable	(16) I	(16) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
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 - 21	—	—	—	Not Occupied	—	—
(22) 22	(22) 2.5	(22) BK / WH	(22) 1951	(22) Signal 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	—	—	—	Not Occupied	—	—
(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 - Chassis Cab (L8T & N2M)



3240109

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 5-2109446-7
- Service Connector: 86545828
- Description: 30-Way F 1.5, 2.8 MCP Series, Sealed(BK)

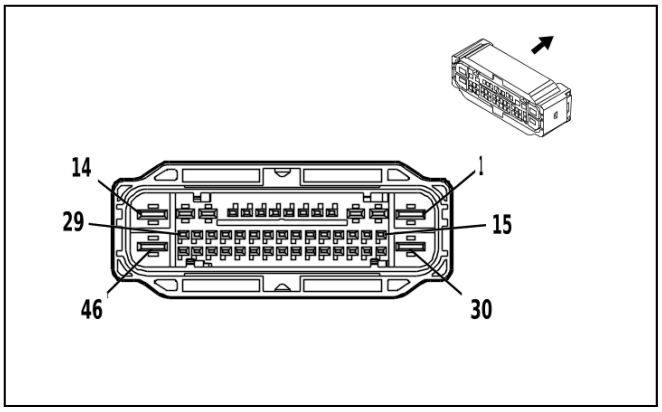
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19329958	J-35616-2A (GY)	J-38125-560
II	19371214	J-35616-35 (VT)	J-38125-556

K111 Fuel Pump Power Control Module - Chassis Cab (L8T & N2M)

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 / GN	(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	—	—
(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 / WH	(22) 1951	(22) Signal 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 - Chassis Cab (L8T & N2N)



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

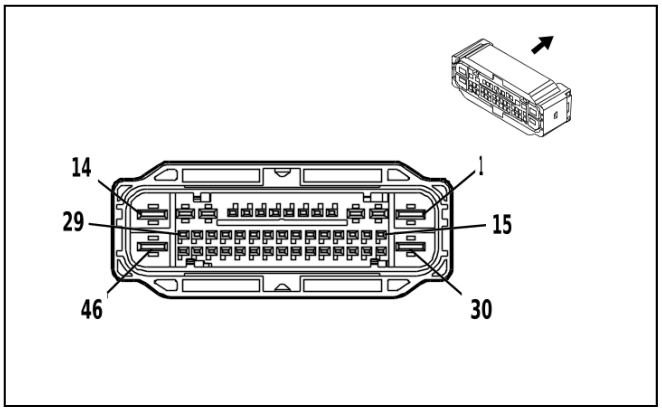
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575368	J-35616-35 (VT)	J-38125-36
II	19370818	J-35616-12 (BU)	J-38125-215A
III	84634921	J-35616-42 (RD)	J-38125-212

K111 Fuel Pump Power Control Module - Chassis Cab (L8T & N2N)

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) 3	(3) 0.5	(3) VT / WH	(3) 639	(3) Run/Crank Ignition 1 Voltage	(3) I	(3) —
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.5	(6) BU / GN	(6) 11437	(6) Secondary Fuel Pump Disable Signal	(6) II	(6) —
(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) 12	(12) 1	(12) BK / GN	(12) 1580	(12) Fuel Pump Low Reference	(12) I	(12) —
(13) 13	(13) 1	(13) BU / GN	(13) 2120	(13) Secondary Fuel Pump Control	(13) I	(13) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(14) 14	(14) 2.5	(14) BK / WH	(14) 1951	(14) Signal Ground	(14) III	(14) —
(15) 15	(15) 0.5	(15) WH	(15) 7444	(15) Fuel Pump Assembly Shield Ground	(15) II	(15) —
16 - 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) 22	(22) 0.5	(22) BK / BU	(22) 6282	(22) Fuel Level Sensor 2 Low Reference	(22) II	(22) —
(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) 38	(38) 0.5	(38) BU / WH	(38) 1937	(38) Secondary Fuel Level Sensor Signal	(38) II	(38) —
(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 (L5P & N2N)



4162046

Connector Part Information

- Harness Type: Fuel Pump Power Control Module Harness
- OEM Connector: 35492372
- Service Connector: Service by Harness - See Part Catalog
- Description: 46-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(GY)

Terminal Part Information

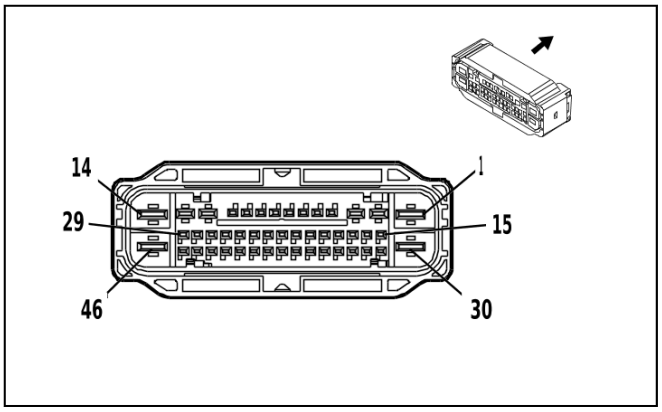
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-35 (VT)	No Tool Required
III	Not required	J-35616-40 (BU)	No Tool Required

K111 Fuel Pump Power Control Module (L5P & N2N)

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) II	(2) —
(3) 3	(3) 0.5	(3) VT / WH	(3) 639	(3) Run/Crank Ignition 1 Voltage	(3) II	(3) —
4 - 5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.75	(6) BU / GN	(6) 11437	(6) Secondary Fuel Pump Disable Signal	(6) I	(6) —
(7) 7	(7) 0.5	(7) WH	(7) 4055	(7) Private Serial Data Powertrain CAN Bus [+] Serial Data	(7) I	(7) —
(8) 8	(8) 0.5	(8) BU / GY	(8) 4054	(8) Private Serial Data Powertrain CAN Bus [-] Serial Data	(8) I	(8) —
9	—	—	—	Not Occupied	—	—
(10) 10	(10) 0.75	(10) VT / GN	(10) 4320	(10) Powertrain Sensor Bus Enable	(10) I	(10) —
(11) 11	(11) 0.5	(11) GN / GY	(11) 465	(11) Fuel Pump Primary Relay Control	(11) I	(11) —
12	—	—	—	Not Occupied	—	—
(13) 13	(13) 1	(13) BU / GN	(13) 2120	(13) Secondary Fuel Pump Control	(13) II	(13) —
(14) 14	(14) 2.5	(14) BK / WH	(14) 1951	(14) Signal Ground	(14) III	(14) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(15) 15	(15) 0.75	(15) WH	(15) 7444	(15) Fuel Pump Assembly Shield Ground	(15) I	(15) —
(16) 16	(16) 0.5	(16) BU / YE	(16) 6861	(16) Water In Fuel Sensor Signal	(16) I	(16) —
17 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.5	(19) BN / RD	(19) 7445	(19) Fuel Line Pressure Sensor 5V Reference	(19) I	(19) —
(20) 20	(20) 0.75	(20) BU / WH	(20) 7446	(20) Fuel Pressure Sensor Signal	(20) I	(20) —
(21) 21	(21) 0.5	(21) BK / GN	(21) 6281	(21) Fuel Level Sensor Low Reference	(21) I	(21) —
(22) 22	(22) 0.5	(22) BK / BU	(22) 6282	(22) Fuel Level Sensor 2 Low Reference	(22) I	(22) —
(23) 23	(23) 0.5	(23) BK / BU	(23) 6863	(23) Water In Fuel Sensor Low Reference	(23) I	(23) —
(24) 24	(24) 0.5	(24) BN / WH	(24) 7073	(24) Fuel Temperature Sensor 1 Low Reference	(24) I	(24) —
25 - 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) I	(35) —
(36) 36	(36) 0.5	(36) BN / GY	(36) 7072	(36) Fuel Temperature Sensor 1 Signal	(36) I	(36) —
(37) 37	(37) 0.75	(37) BU / GN	(37) 1936	(37) Primary Fuel Level Sensor Signal	(37) I	(37) —
(38) 38	(38) 0.5	(38) BU / WH	(38) 1937	(38) Secondary Fuel Level Sensor Signal	(38) I	(38) —
39 - 43	—	—	—	Not Occupied	—	—
(44) 44	(44) 0.75	(44) BK / GN	(44) 1580	(44) Fuel Pump Low Reference	(44) I	(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 - Pickup (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

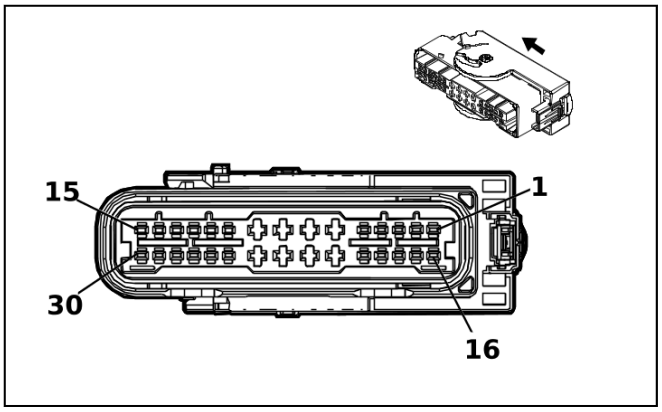
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575368	J-35616-35 (VT)	J-38125-36
II	19370818	J-35616-12 (BU)	J-38125-215A
III	84634921	J-35616-42 (RD)	J-38125-212

K111 Fuel Pump Power Control Module - Pickup (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 / WH	(14) 1951	(14) Signal Ground	(14) III	(14) —
(15) 15	(15) 0.5	(15) WH	(15) 7444	(15) Fuel Pump Assembly Shield Ground	(15) II	(15) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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 / 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 - Pickup (L5P - N2N)



3240109

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 5-2109446-7
- Service Connector: 86545828
- Description: 30-Way F 1.5, 2.8 MCP Series, Sealed(BK)

Terminal Part Information

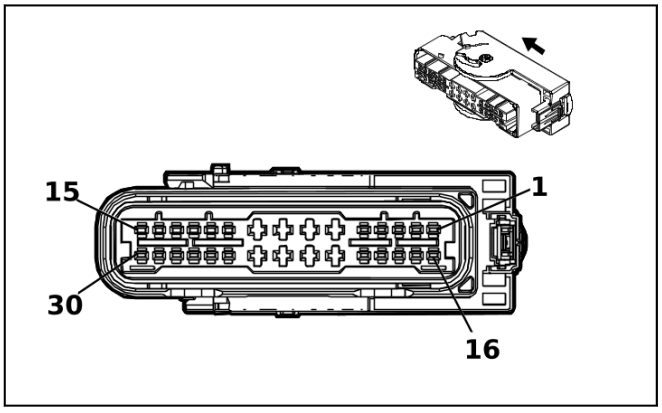
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19329958	J-35616-2A (GY)	J-38125-560
II	19371214	J-35616-35 (VT)	J-38125-556

K111 Fuel Pump Power Control Module - Pickup (L5P - N2N)

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 - 11	—	—	—	Not Occupied	—	—
(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) 1	(16) VT / GN	(16) 4320	(16) Powertrain Sensor Bus Enable	(16) I	(16) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
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 - 21	—	—	—	Not Occupied	—	—
(22) 22	(22) 2.5	(22) BK / WH	(22) 1951	(22) Signal 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	—	—	—	Not Occupied	—	—
(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 - Pickup (L8T)



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)

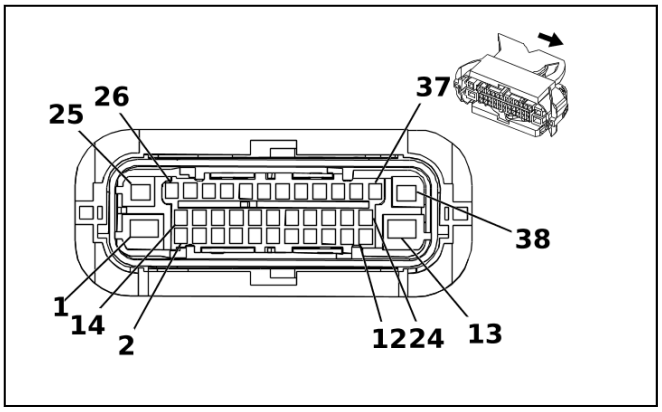
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19329958	J-35616-2A (GY)	J-38125-560
II	19371214	J-35616-35 (VT)	J-38125-556

K111 Fuel Pump Power Control Module - Pickup (L8T)

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 / GN	(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	—	—
(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 / WH	(22) 1951	(22) Signal 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 (L5P)



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

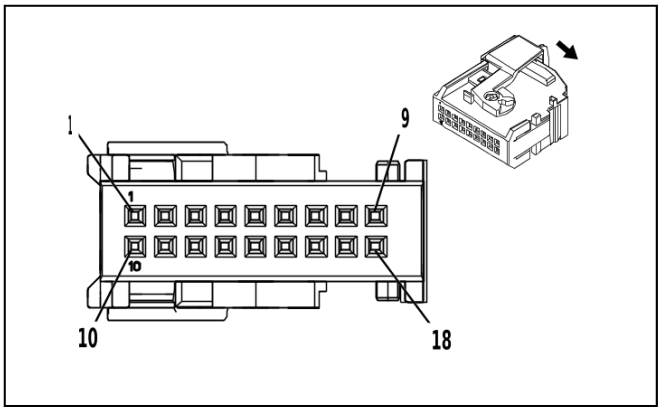
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-40 (BU)	No Tool Required
III	Not required	J-35616-4A (PU)	No Tool Required

K115 Reductant Control Module (L5P)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 3	(1) RD / WH	(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) 7286	(7) Diesel Exhaust Fluid Sensor Voltage Reference 2	(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) 7284	(9) Diesel Exhaust Fluid Liquid Quality Temperature Signal	(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) BK	(13) 1650	(13) Ground	(13) II	(13) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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) VT / WH	(30) 639	(30) Run/Crank Ignition 1 Voltage	(30) I	(30) —
(31) 31	(31) 0.5	(31) BU / BK	(31) 4977	(31) AUTOSAR CAN Bus [+] 3 Serial Data	(31) I	(31) —
(32) 32	(32) 0.5	(32) BU / BK	(32) 4977	(32) AUTOSAR CAN Bus [+] 3 Serial Data	(32) I	(32) —
(33) 33	(33) 0.5	(33) WH	(33) 4976	(33) AUTOSAR CAN Bus [-] 3 Serial Data	(33) I	(33) —
(34) 34	(34) 0.5	(34) WH	(34) 4976	(34) AUTOSAR CAN Bus [-] 3 Serial Data	(34) I	(34) —
35	—	—	—	Not Occupied	—	—
(36) 36	(36) 1	(36) BK	(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 / GN	(38) 2440	(38) Battery Positive Voltage	(38) III	(38) —

K157 Video Processing Module X1



4329088

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 13528967
- Service Connector: 84976200
- Description: 18-Way F 0.64 Micro-Quadlock Series(BK)

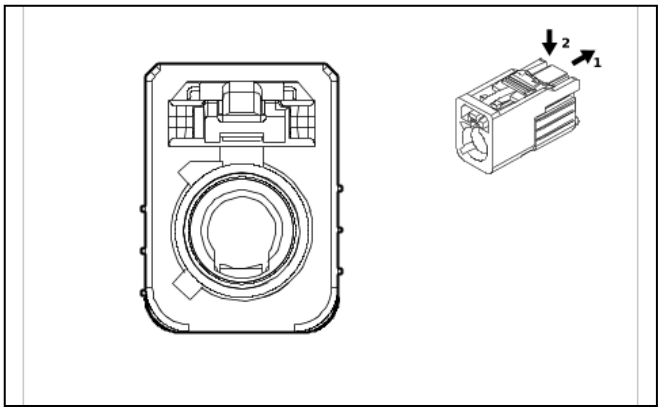
Terminal Part Information

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

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



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)

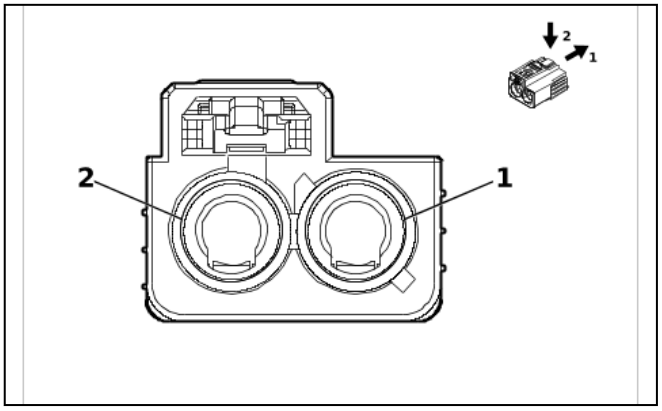
Terminal Part Information

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

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

K157 Video Processing Module X4



5810836

Connector Part Information
- Harness Type: Body Wiring Harness COAX
- OEM Connector: 33340386
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 2-Way F Coax Type(BG)

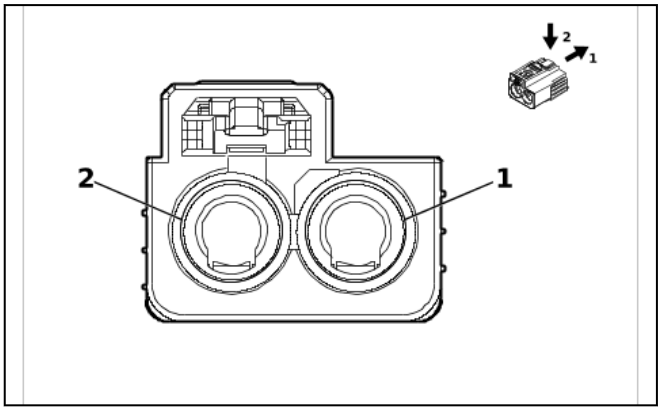
Terminal Part Information

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

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

K157 Video Processing Module X5



5810827

Connector Part Information

- Harness Type: Body Wiring Harness COAX
- OEM Connector: 33340382
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 2-Way F Coax Type(GN)

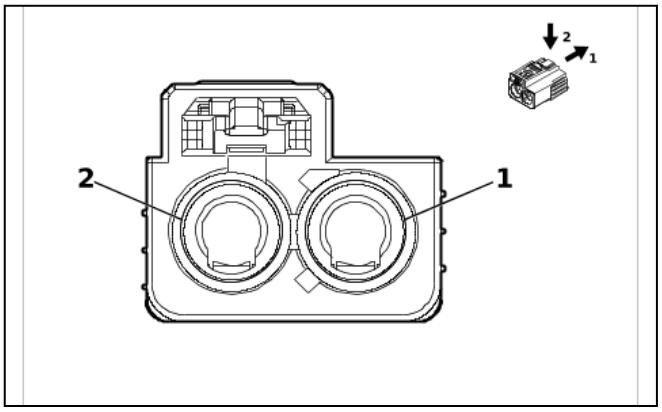
Terminal Part Information

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

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

K157 Video Processing Module X6



5810832

Connector Part Information
- Harness Type: Body Wiring Harness COAX
- OEM Connector: 33340383
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 2-Way F Coax Type(BN)

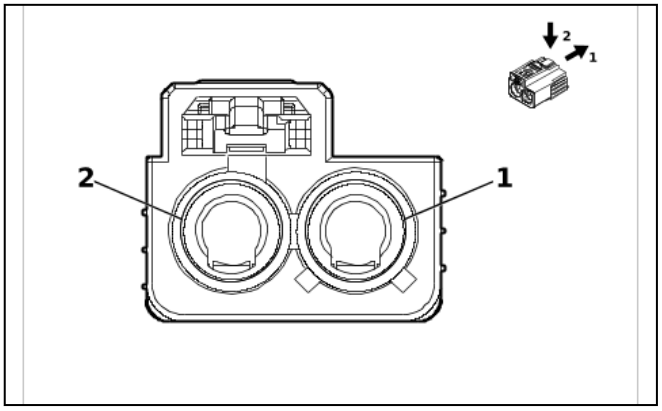
Terminal Part Information

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

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

K157 Video Processing Module X7



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)

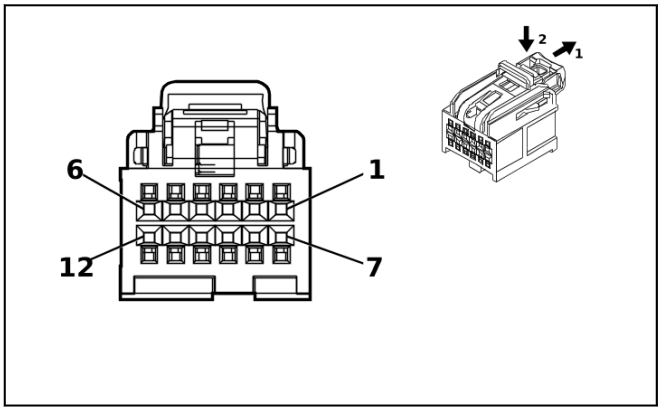
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.14	(1) WH	(1) 4722	(1) Frontview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(1) I	(1) —
(2) 2	(2) 0.14 (2) 0.14	(2) BARE (2) WH	(2) 4721 (2) 4721	(2) Rearview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal (2) Rearview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(2) I (2) I	(2) — (2) —

K182 Parking Assist Control Module X1



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

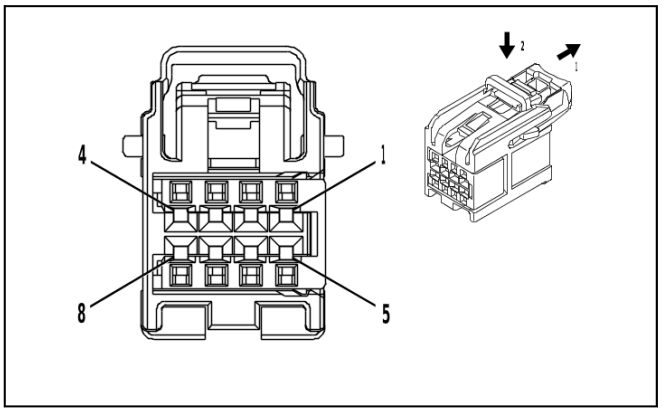
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300660	J-35616-64B (L-BU)	J-38125-215A

K182 Parking Assist Control Module X1

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) BK / WH	(6) 1551	(6) Signal Ground	(6) I	(6) —
7	—	—	—	Not Occupied	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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



4232228

Connector Part Information
- Harness Type: Body Wiring Harness
- OEM Connector: 15526973
- Service Connector: 19353873
- Description: 8-Way F 0.64 OCS Series(GY)

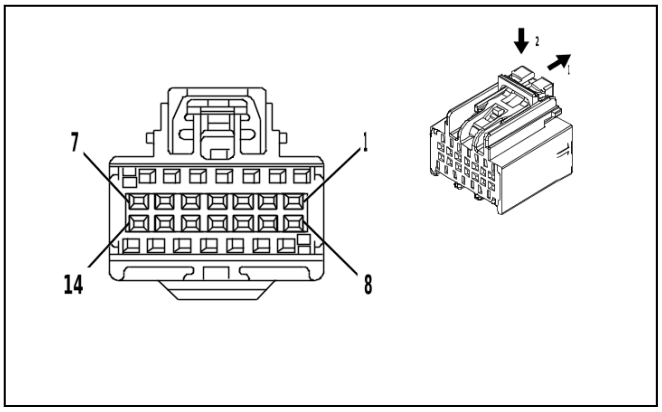
Terminal Part Information

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

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



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)

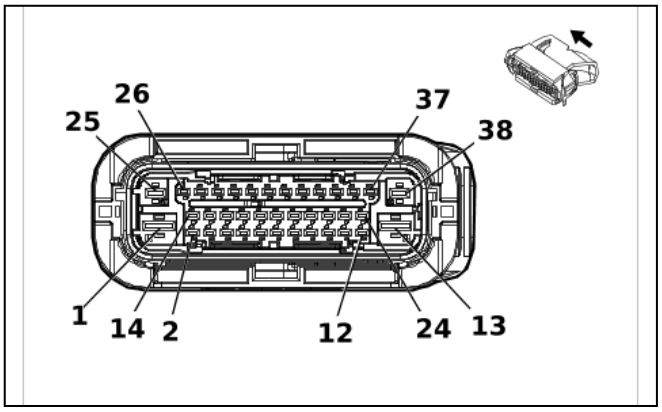
Terminal Part Information

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

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

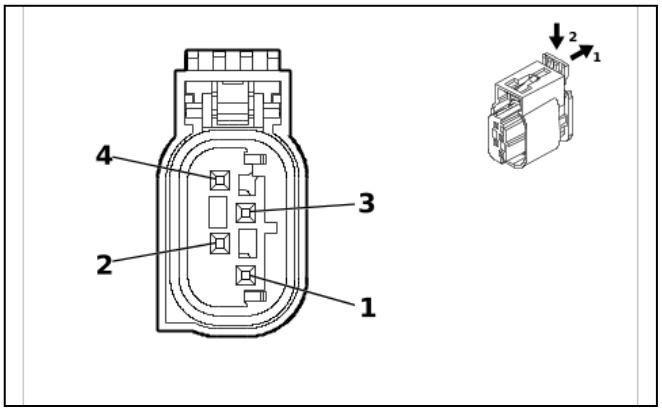
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-35 (VT)	No Tool Required
III	Not required	J-35616-40 (BU)	No Tool Required

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) 20	(20) 0.5	(20) BU / VT	(20) 4101	(20) AUTOSAR CAN Bus [+] 4 Serial Data	(20) I	(20) —
(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) 10283	(23) Rear Closure Latch 2 Primary Status Signal	(23) I	(23) —
(24) 24	(24) 0.5	(24) VT / WH	(24) 10284	(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) 10282	(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) 32	(32) 0.5	(32) WH	(32) 4100	(32) AUTOSAR CAN Bus [-] 4 Serial Data	(32) I	(32) —
(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) —

K214 Trailer Tire Pressure Indicator Module



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)

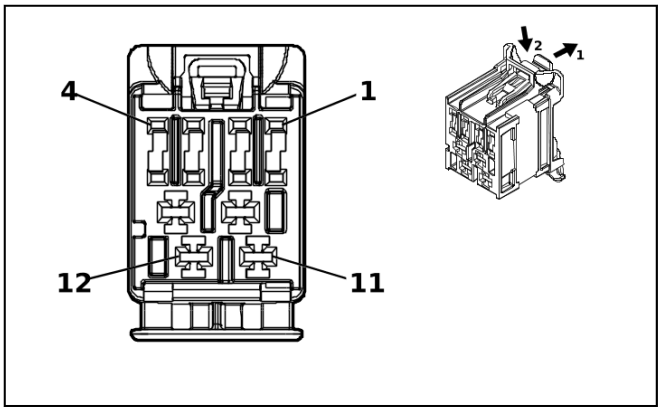
Terminal Part Information

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

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	(2) 1850	(2) 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)

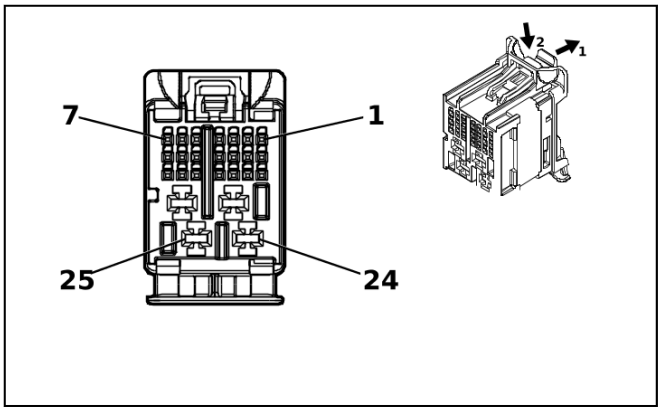
Terminal Part Information

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) 0.5	(10) YE	(10) 712	(10) Left Headlamp Low Beam Control	(10) II	(10) —
11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0.5	(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

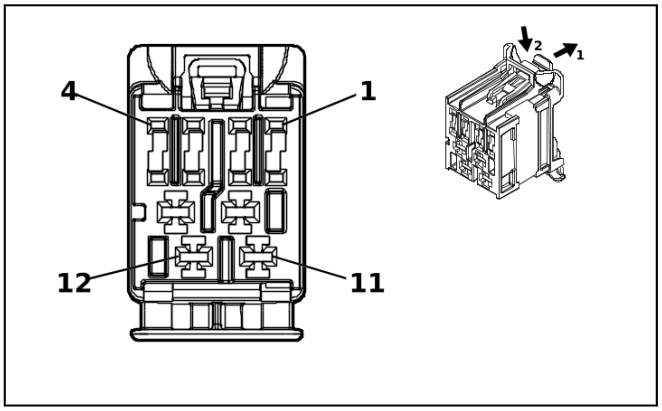
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	87814662	J-35616-35 (VT)	J-38125-557

K219 Lighting Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.35	(2) WH / YE	(2) 7541	(2) Right Rear Stop Lamp Control	(2) I	(2) —
(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) 0.35	(10) BN / GN	(10) 196	(10) Windshield Wiper Motor Park Switch Signal	(10) I	(10) —
(11) 11	(11) 0.35	(11) VT / BK	(11) 6568	(11) Front Turn Signal Lamp Feedback Signal	(11) I	(11) —
(12) 12	(12) 0.35	(12) GY	(12) 91	(12) Windshield Wiper Motor Relay Coil Control	(12) I	(12) —
(13) 13	(13) 0.35	(13) BU / YE	(13) 68	(13) Low Coolant Level Indicator Control	(13) I	(13) —
(14) 14	(14) 0.35	(14) VT	(14) 185	(14) Low Washer Fluid Indicator Control	(14) I	(14) —
15 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.35	(19) WH / BN	(19) 7055	(19) Auxiliary Park Lamp Relay Control	(19) I	(19) —
(20) 20	(20) 0.35	(20) WH / YE	(20) 7545	(20) Right Front Turn Signal Lamp Feedback Signal	(20) I	(20) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(21) 21	(21) 0.35	(21) WH / VT	(21) 860	(21) Windshield Wiper Switch High Signal	(21) I	(21) —
(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

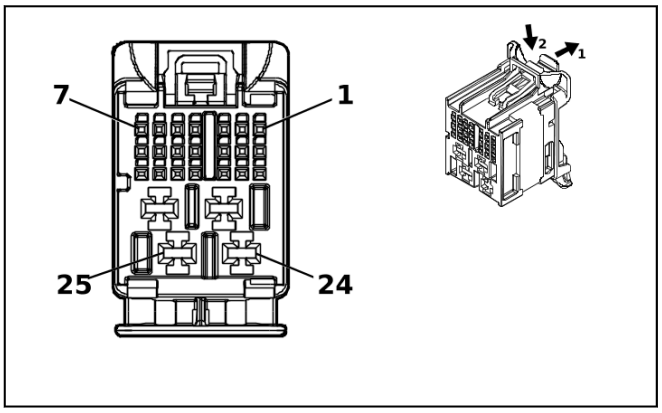
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84729890	J-35616-12 (BU)	J-38125-215A
II	87814662	J-35616-35 (VT)	J-38125-557

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) 2	(2) 0.75	(2) GY / YE	(2) 7542	(2) Left Rear Stop Lamp Control	(2) I	(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	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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) —
(11) 11	(11) 0.5	(11) WH	(11) 311	(11) Right Headlamp High Beam Control	(11) II	(11) —
(12) 12	(12) 0.5	(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

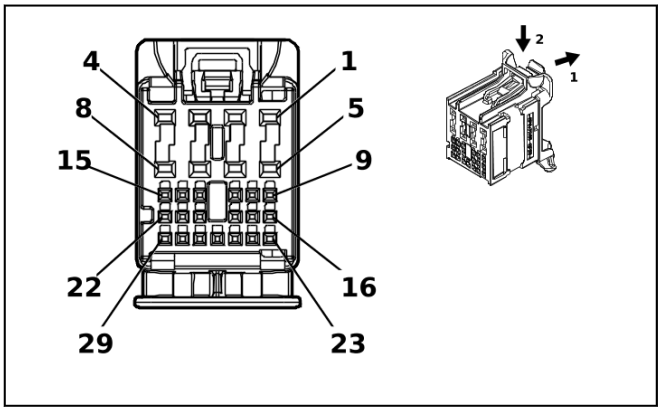
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	87814662	J-35616-35 (VT)	J-38125-557

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) 0.35	(10) WH	(10) 4978	(10) AUTOSAR CAN Bus [-] 2 Serial Data	(10) I	(10) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(11) 11	(11) 0.35	(11) BU / YE	(11) 4979	(11) AUTOSAR CAN Bus [+] 2 Serial Data	(11) I	(11) —
12 - 21	—	—	—	Not Occupied	—	—
(22) 22	(22) 1	(22) RD / BN	(22) 1140	(22) Battery Positive Voltage	(22) II	(22) —
(23) 23	(23) 1.5	(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

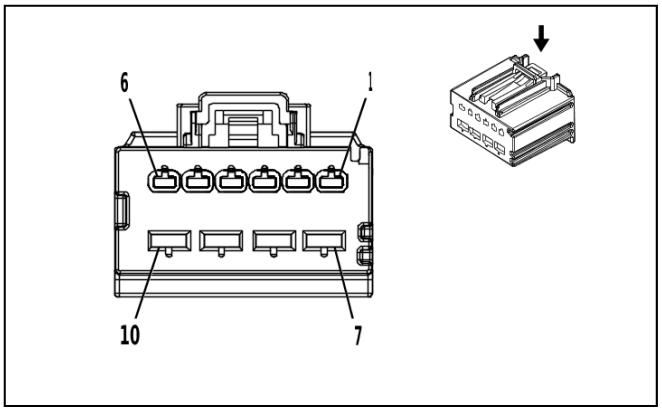
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19370262	EL-35616-58 (BK)	EL-38125-58
II	84729890	J-35616-12 (BU)	J-38125-215A

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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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) —
(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) 0.35	(10) WH / GY	(10) 2114	(10) Left Turn Signal Lamp Control 2	(10) I	(10) —
(11) 11	(11) 0.35	(11) GY	(11) 1715	(11) Windshield Wiper Switch High Signal	(11) I	(11) —
(13) 13	(13) 0.35	(13) GN / BN	(13) 319	(13) Right Rear Trailer Stop/Turn Lamp Control	(13) I	(13) —
14	—	—	—	Not Occupied	—	—
(15) 15	(15) 0.35	(15) WH / GY	(15) 2935	(15) Task Lamp Switch Signal	(15) I	(15) —
(16) 16	(16) 0.35	(16) YE / WH	(16) 2934	(16) Task Lamp Control Right	(16) I	(16) —
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.35	(18) VT / WH	(18) 239	(18) Run/Crank Ignition 1 Voltage	(18) I	(18) —
20 - 22	—	—	—	Not Occupied	—	—
(23) 23	(23) 0.35	(23) WH / VT	(23) 6567	(23) Rear Turn Signal Lamp Feedback Signal	(23) I	(23) —
(24) 24	(24) 0.35	(24) WH / BK	(24) 7544	(24) Right Rear Turn Signal Lamp Feedback Signal	(24) I	(24) —
(25) 25	(25) 0.35	(25) BN / YE	(25) 820	(25) Center High Mounted Stop Lamp Supply Voltage	(25) I	(25) —
26 - 27	—	—	—	Not Occupied	—	—
(28) 28	(28) 0.35	(28) YE / GY	(28) 2933	(28) Task Lamp Control Left	(28) I	(28) —
(29) 29	(29) 0.35	(29) YE / BU	(29) 318	(29) Left Rear Trailer Stop/Turn Lamp Control	(29) I	(29) —

K234 Rear Seat Heater Vent 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)

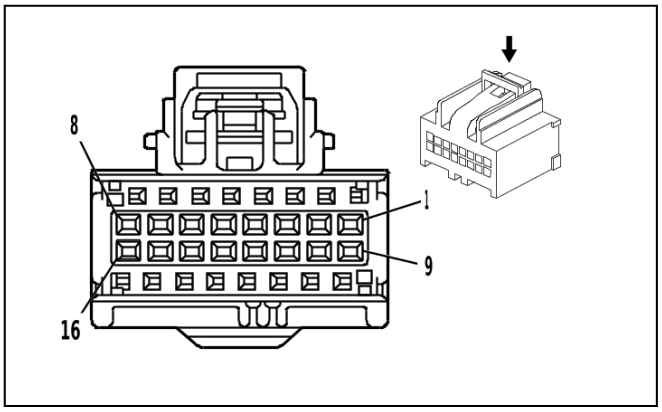
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

K234 Rear Seat Heater Vent 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) —
(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) 1	(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) —

K234 Rear Seat Heater Vent 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)

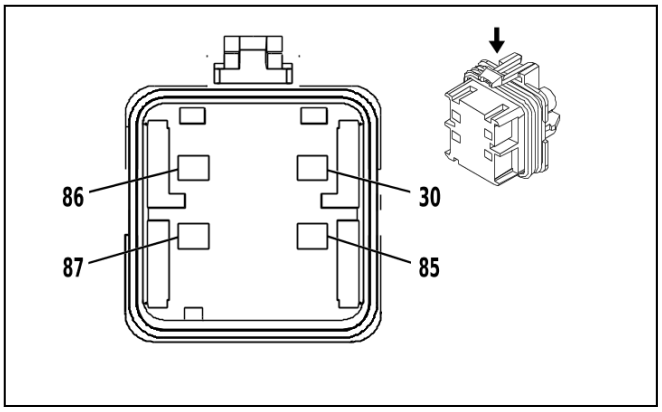
Terminal Part Information

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

K234 Rear Seat Heater Vent 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	—	—
(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) 1150	(7) Ground	(7) I	(7) —
(8) 8	(8) 0.5	(8) GN / BU	(8) 2857	(8) Body Control Module LIN Bus 11	(8) I	(8) —
9 - 16	—	—	—	Not Occupied	—	—

KR81A Auxiliary Battery Relay 1



535912

Connector Part Information

- Harness Type: Battery Positive Cable
- OEM Connector: 12129716
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 280 Metri-Pack Flexlock Series, Sealed(GY)

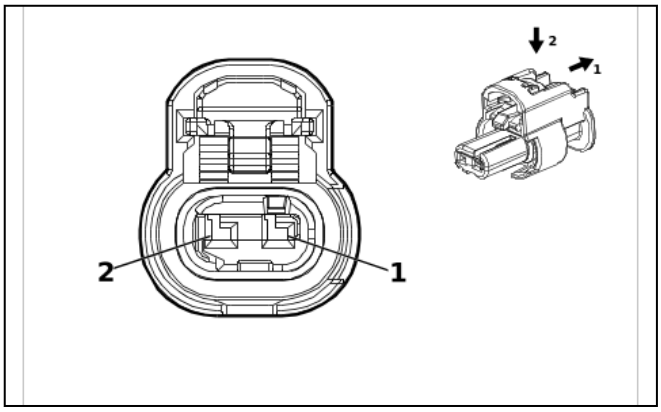
Terminal Part Information

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

KR81A Auxiliary Battery Relay 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(30) 30	(30) 0.5	(30) RD / YE	(30) 4540	(30) Battery Positive Voltage	(30) I	(30) —
(85) 85	(85) 0.5	(85) BK	(85) 450	(85) Ground	(85) I	(85) —
(86) 86	(86) 0.5	(86) VT / BN	(86) 300	(86) Run Ignition 3 Voltage	(86) I	(86) —
(87) 87	(87) 0.5	(87) RD / BU	(87) 4540	(87) Battery Positive Voltage	(87) I	(87) —

KR81B Auxiliary Battery Relay 2



4649903

Connector Part Information
- Harness Type: Battery Positive Cable
- OEM Connector: 1-2296694-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

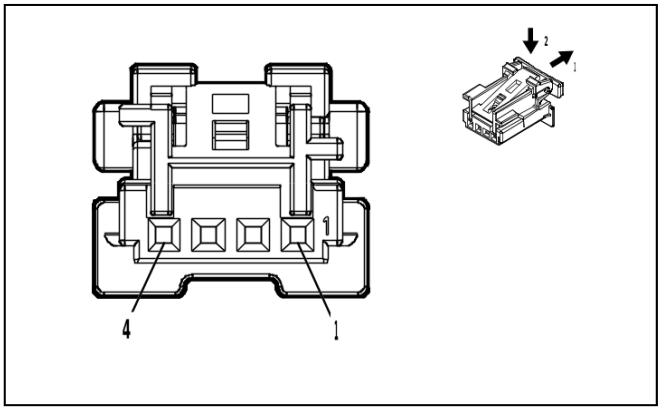
Terminal Part Information

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

KR81B Auxiliary Battery Relay 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / BU	(1) 4540	(1) Battery Positive Voltage	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK	(2) 450	(2) Ground	(2) I	(2) —

M4P Programmable 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)

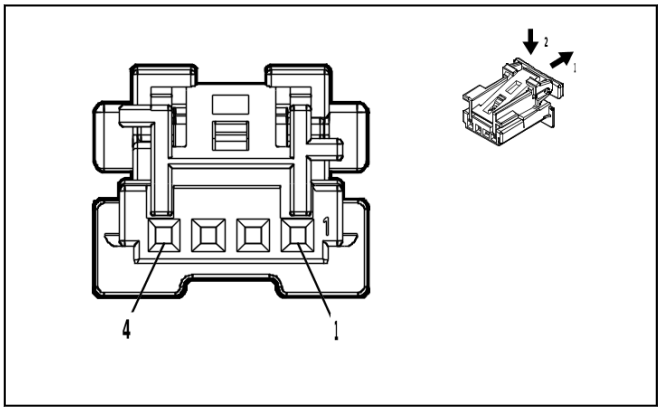
Terminal Part Information

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

M4P Programmable 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) —

M6PL Programmable 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)

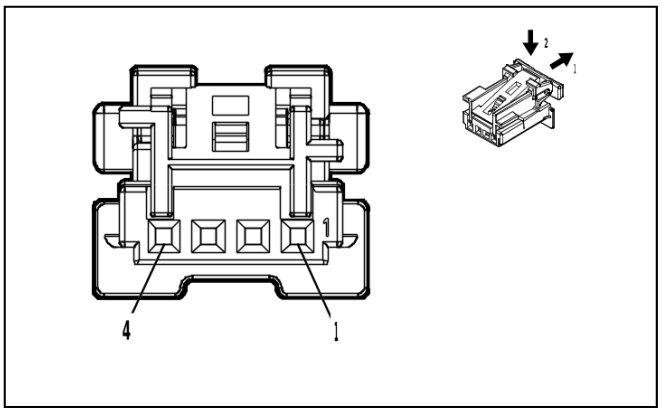
Terminal Part Information

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

M6PL Programmable 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) —

M6PR Programmable 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)

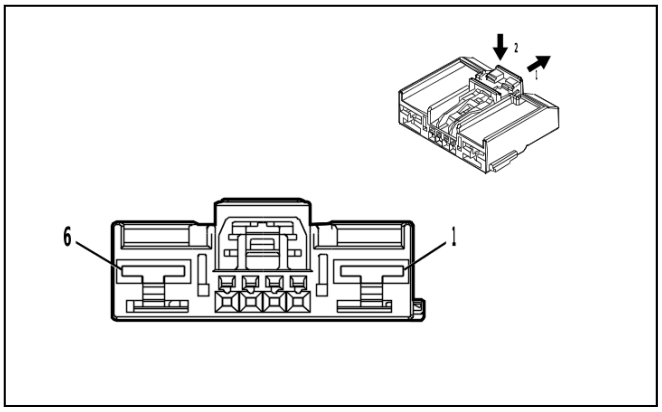
Terminal Part Information

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

M6PR Programmable 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



4650258

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 7289-7139-30
- Service Connector: 19356432
- Description: 6-Way F 0.64, 6.3 Series(BK)

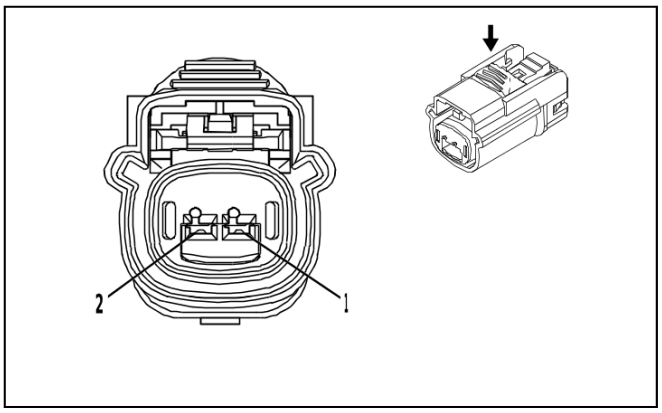
Terminal Part Information

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

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) —

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)

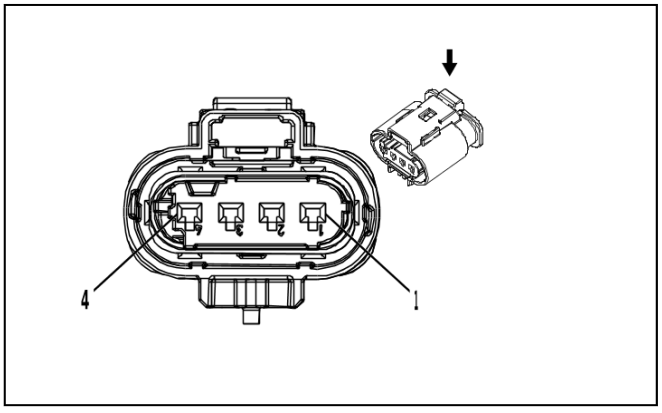
Terminal Part Information

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



2717079

Connector Part Information
- Harness Type: Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness
- OEM Connector: 10520915
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 1.2 Multilock Series, Sealed(BK)

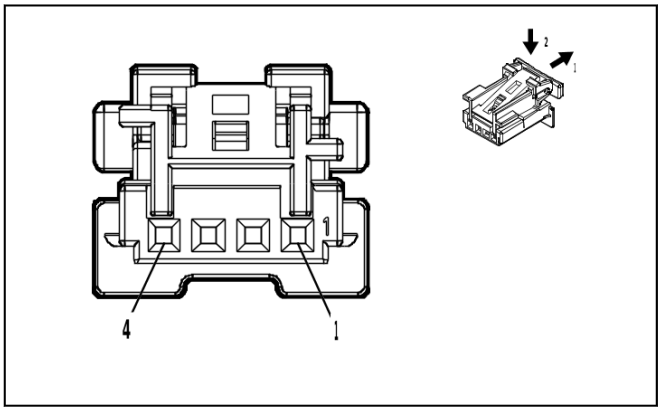
Terminal Part Information

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

M26 Front Drive Axle Actuator

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) —

M37P Programmable 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)

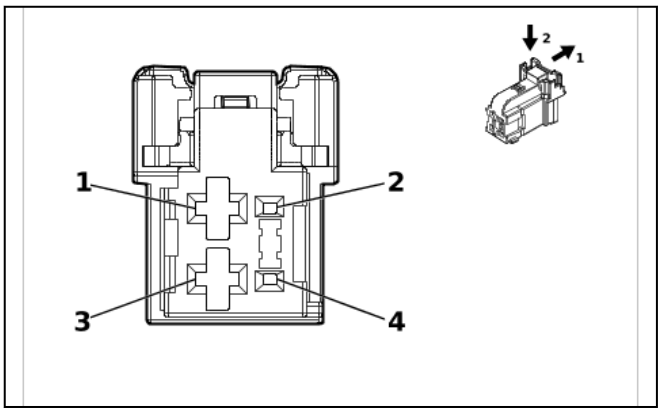
Terminal Part Information

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

M37P Programmable 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



5410027

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 2316171-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

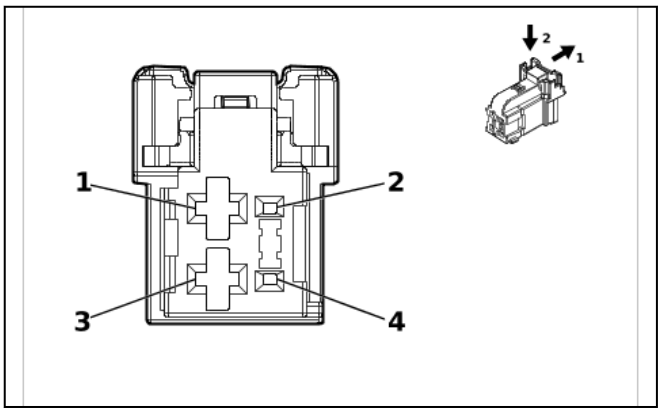
Terminal Part Information

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

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)

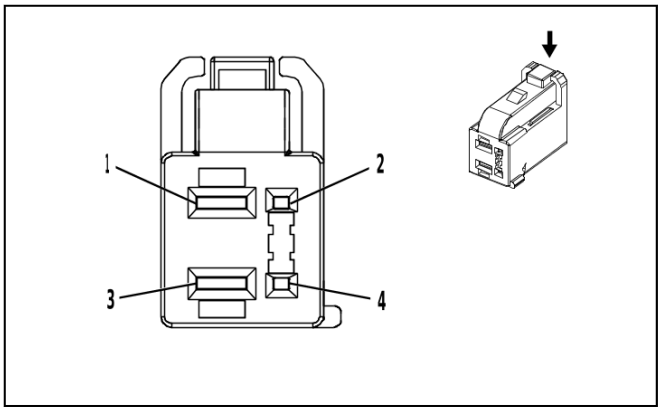
Terminal Part Information

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_A45
- OEM Connector: 13583828
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

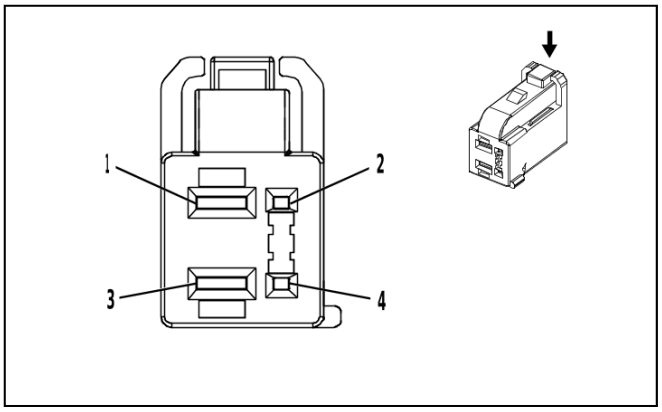
Terminal Part Information

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: 13583828
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

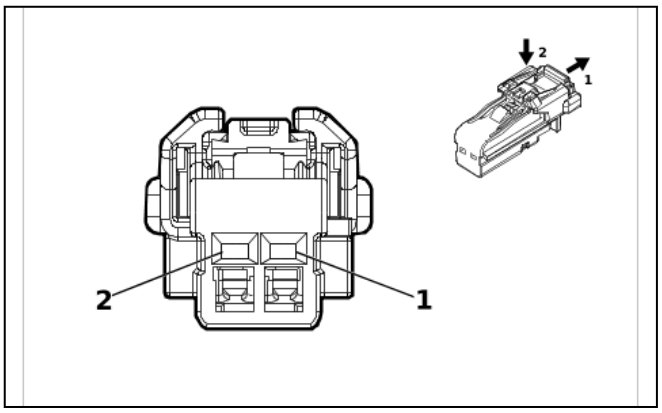
Terminal Part Information

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_A45
- OEM Connector: 6098-8988
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

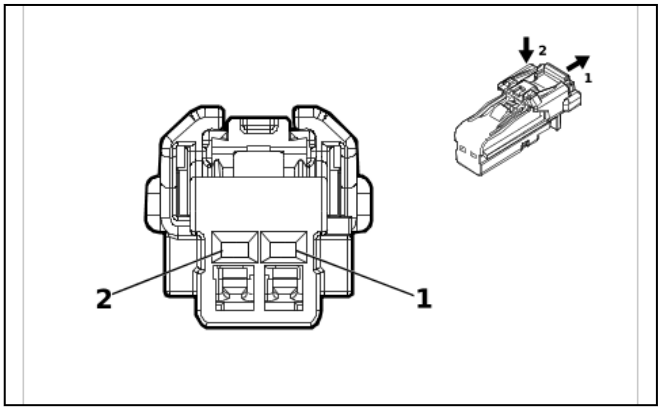
Terminal Part Information

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)

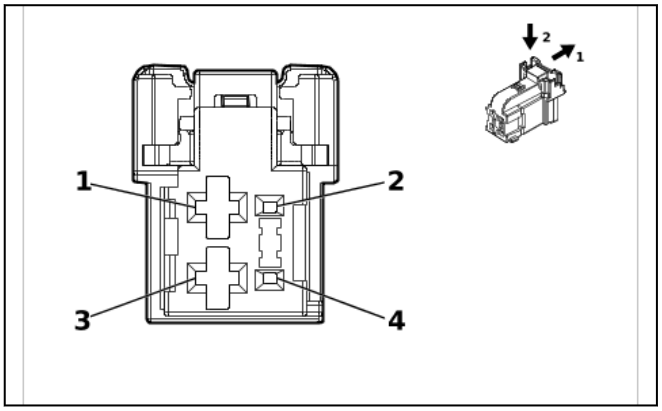
Terminal Part Information

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_A45
- OEM Connector: 2316171-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

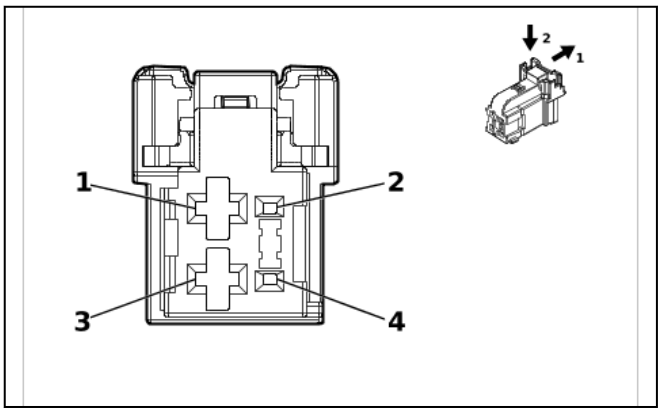
Terminal Part Information

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)

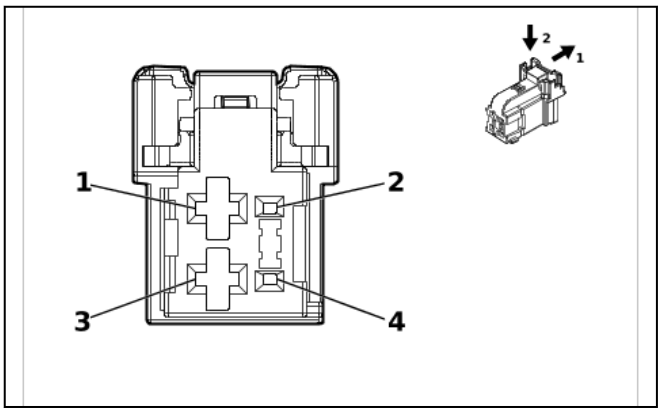
Terminal Part Information

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_A45
- OEM Connector: 2316171-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64, 2.8 Series(BK)

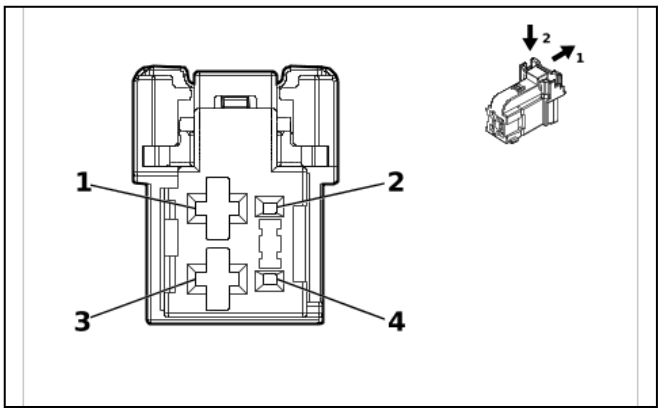
Terminal Part Information

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)

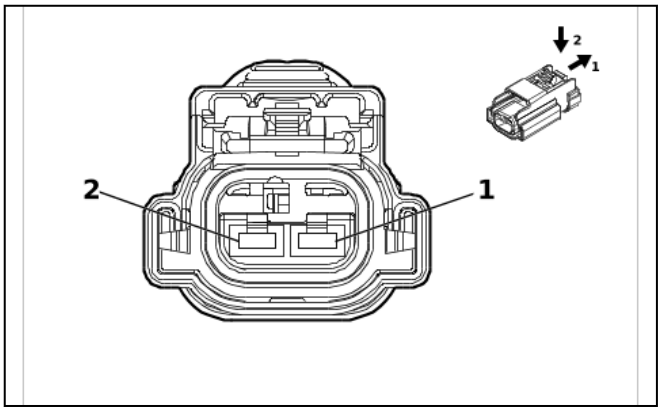
Terminal Part Information

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



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)

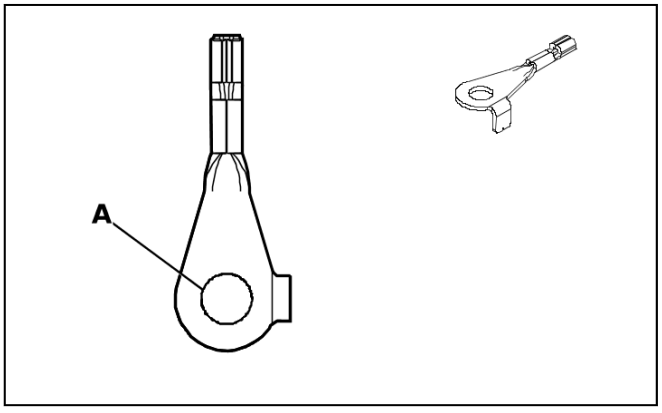
Terminal Part Information

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

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 (L5P)



5200091

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 35181369
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

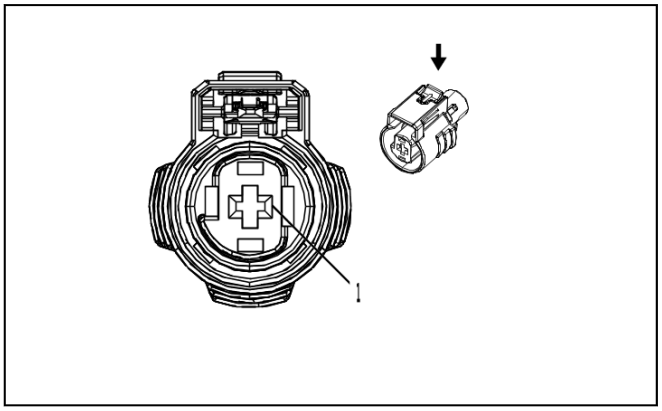
Terminal Part Information

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

M64 Starter X1 (L5P)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.5	YE	6	Starter Solenoid Crank Ignition Voltage	I	—

M64 Starter X1 (L8T)



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)

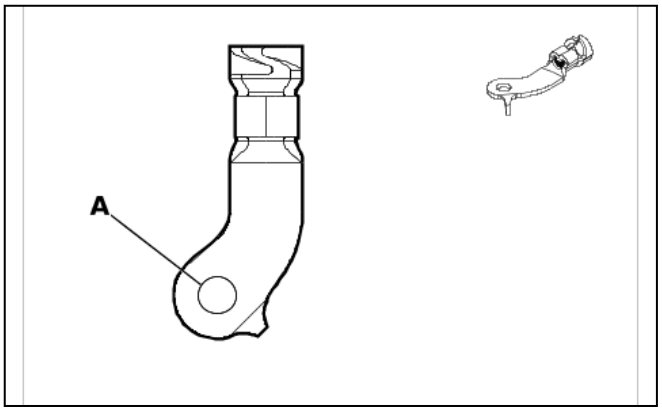
Terminal Part Information

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

M64 Starter X1 (L8T)

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 (L5P)



6444130

Connector Part Information
- Harness Type: Starter Solenoid Cable
- OEM Connector: 84335258
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

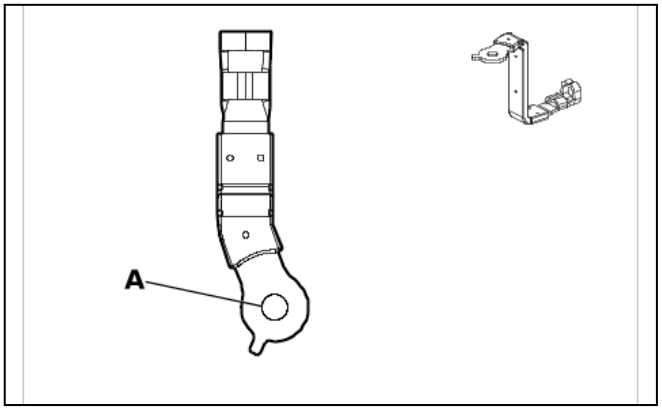
Terminal Part Information

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

M64 Starter X2 (L5P)

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

M64 Starter X2 (L8T)



6056268

Connector Part Information
- Harness Type: Starter Solenoid Cable
- OEM Connector: 85580052
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way Ring Terminal

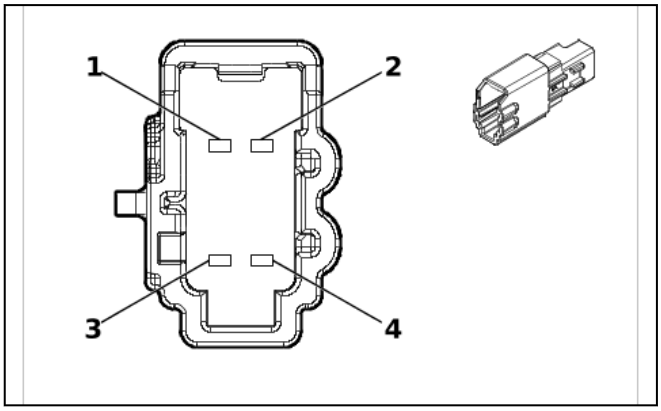
Terminal Part Information

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

M64 Starter X2 (L8T)

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

M73A Front Seat Back Ventilation Blower - Driver



5423974

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 6098-9049
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(GY)

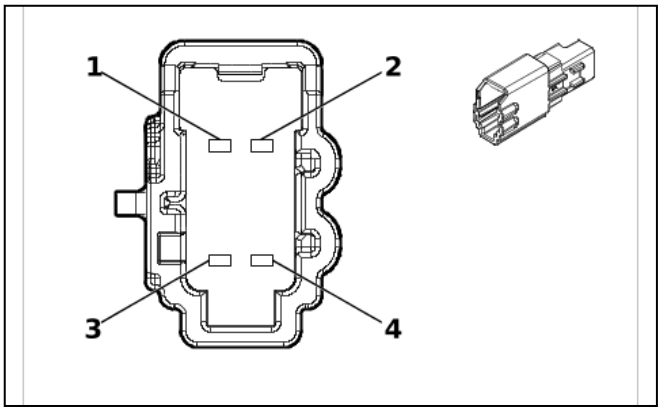
Terminal Part Information

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)

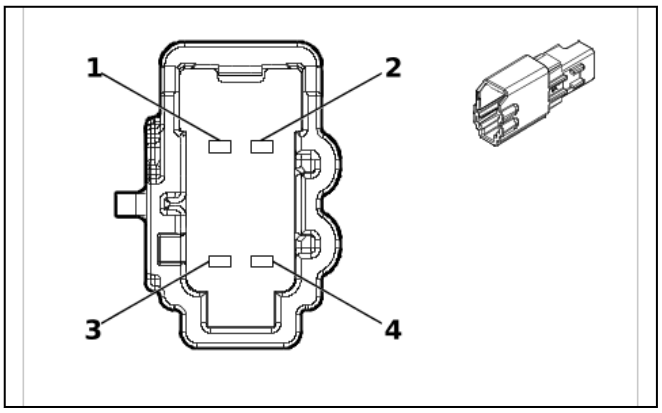
Terminal Part Information

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_A45
- OEM Connector: 6098-9049
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.2 MCON Series(GY)

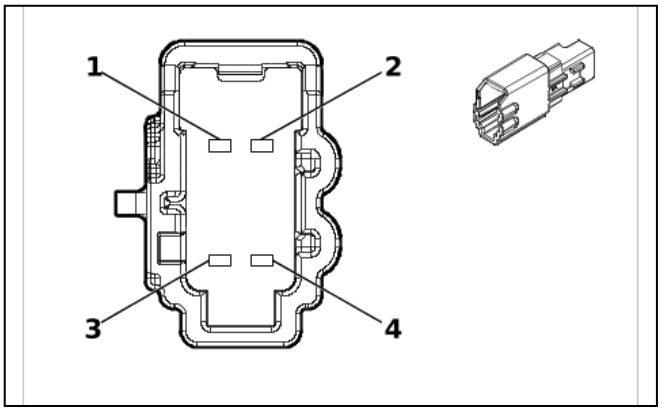
Terminal Part Information

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)

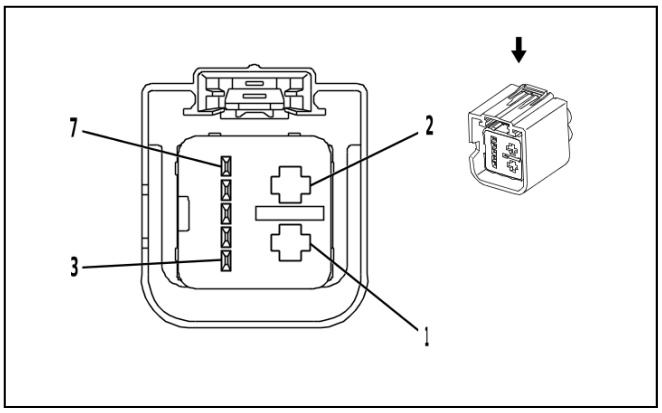
Terminal Part Information

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 - Left
- 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)

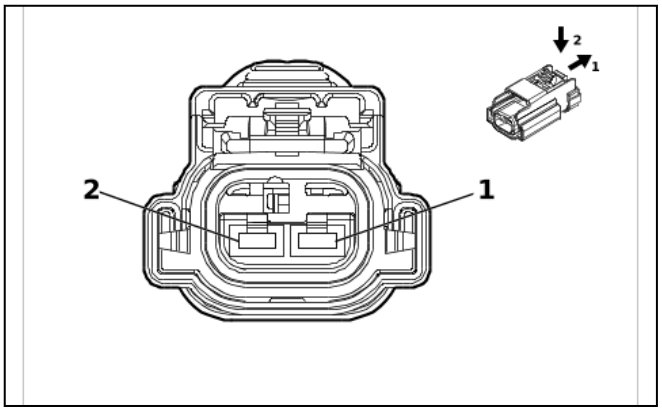
Terminal Part Information

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
- OEM Connector: 35286783
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 APEX Series, Sealed(BK)

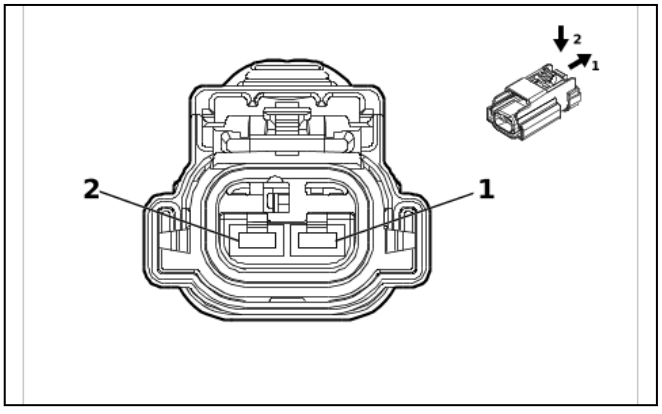
Terminal Part Information

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 Side Door Door Wiring Harness - Right
- OEM Connector: 35286783
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 APEX Series, Sealed(BK)

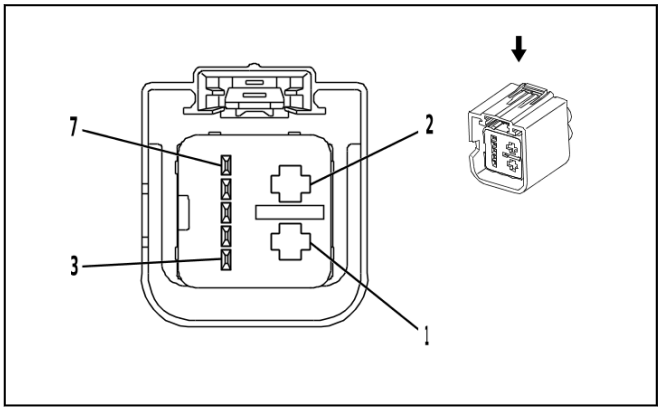
Terminal Part Information

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 - Right
- 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

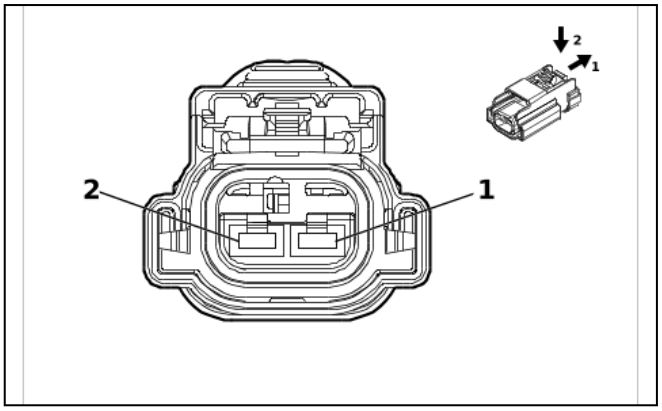
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	J-35616-64B (L-BU)	No Tool Required

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
- OEM Connector: 35286783
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 APEX Series, Sealed(BK)

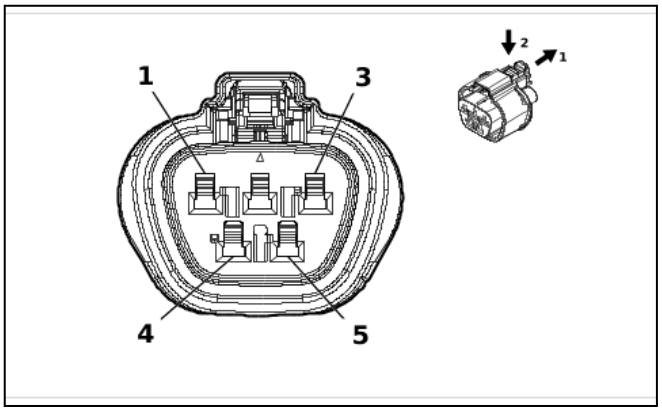
Terminal Part Information

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



6171401

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 6189-8622
- Service Connector: 85761017
- Description: 5-Way F 2.3 Sumitomo Series, Sealed(BK)

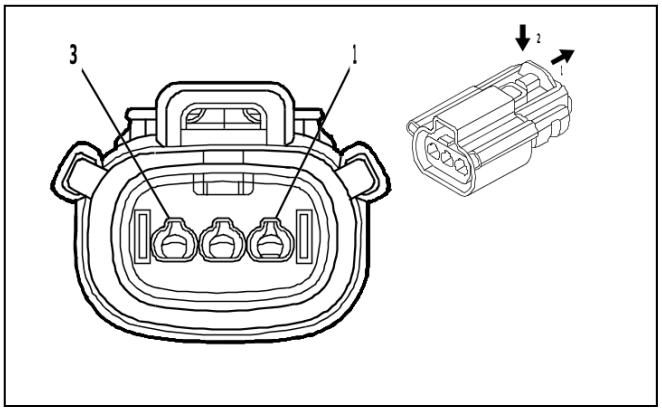
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	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) I	(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) I	(4) —
(5) 5	(5) 2	(5) BK	(5) 150	(5) Ground	(5) I	(5) —

M96A Active Grille Air Shutter Actuator 1



5095610

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 33471-3306
- Service Connector: 84719651
- Description: 3-Way F 1.5 Series, Sealed(BK)

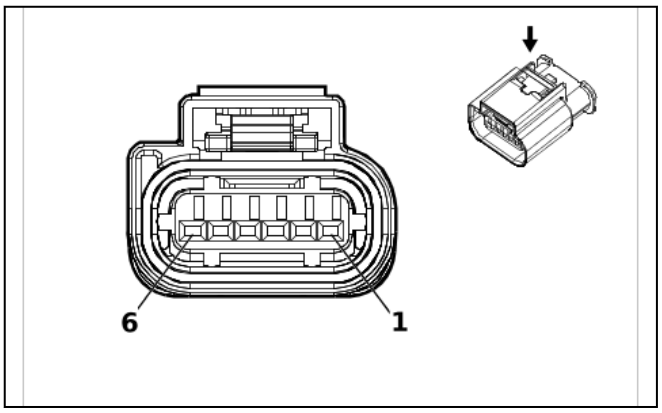
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required

M96A Active Grille Air Shutter Actuator 1

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) II	(1) —
(2) 2	(2) 0.5	(2) GN / VT	(2) 4621	(2) Engine Control Module LIN Bus 1	(2) II	(2) —
(3) 3	(3) 1.5	(3) BK	(3) 450	(3) Ground	(3) I	(3) —

M103 Turbocharger Vane Position Actuator



5483505

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13507084
- Service Connector: 84981395
- Description: 6-Way F 1.2 MCON Series, Sealed(BK)

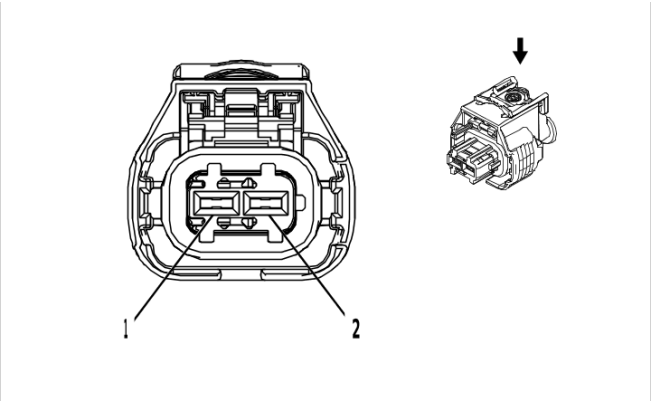
Terminal Part Information

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

M103 Turbocharger Vane Position Actuator

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 / WH	(2) 6151	(2) Engine Control Module Ground	(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) 0.5	(4) WH	(4) 4055	(4) Private Serial Data Powertrain CAN Bus [+] Serial Data	(4) I	(4) —
(5) 5	(5) 0.5	(5) BU / GY	(5) 4054	(5) Private Serial Data Powertrain CAN Bus [-] Serial Data	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / GY	(6) 4054	(6) Private Serial Data Powertrain CAN Bus [-] Serial Data	(6) I	(6) —

M104L Parking Brake Actuator - Left



2577394

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 1 928 405 714
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 Series, Sealed(BK)

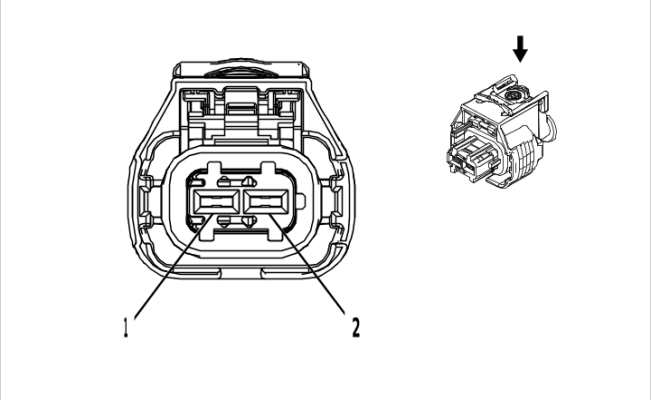
Terminal Part Information

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

M104L Parking Brake Actuator - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY / BK	(1) 4369	(1) Left Park Brake Motor Low Reference	(1) I	(1) —
(2) 2	(2) 2.5	(2) WH	(2) 2001	(2) Left Park Brake Motor Apply Control	(2) I	(2) —

M104R Parking Brake Actuator - Right



2577394

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 1 928 405 714
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 Series, Sealed(BK)

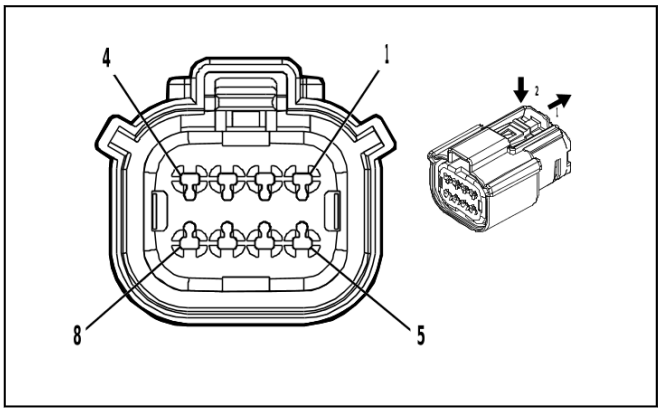
Terminal Part Information

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

M104R Parking Brake Actuator - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY	(1) 4368	(1) Right Park Brake Motor Low Reference	(1) I	(1) —
(2) 2	(2) 2.5	(2) GN / VT	(2) 1988	(2) Right Park Brake Motor Apply 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

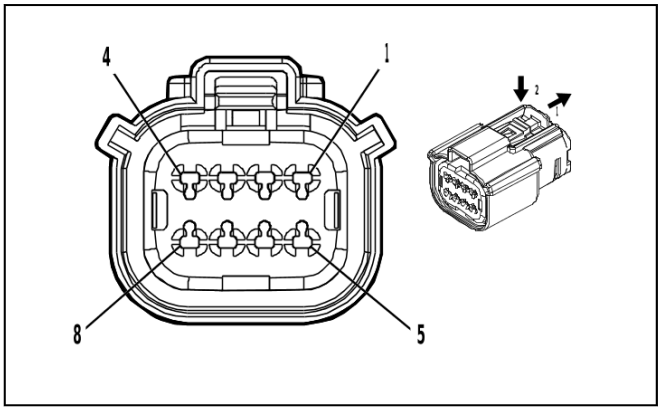
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required

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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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) —

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)

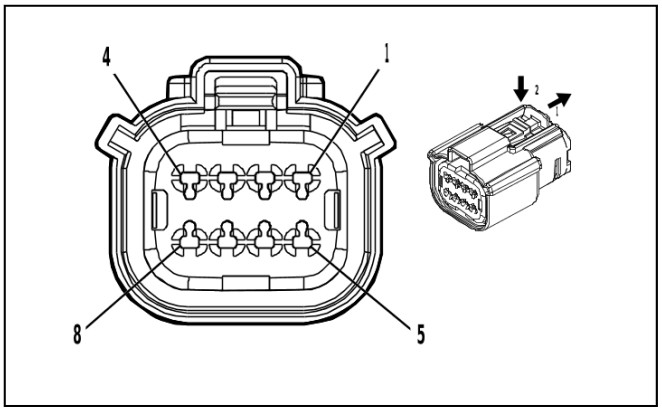
Terminal Part Information

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)

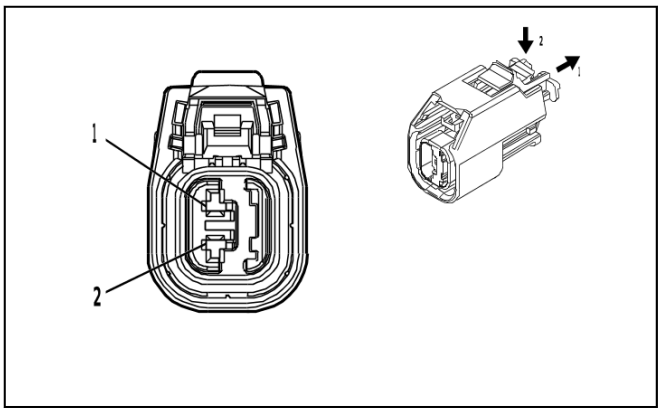
Terminal Part Information

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)

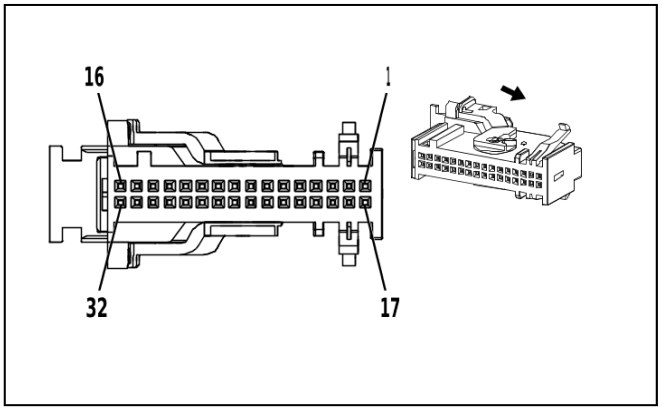
Terminal Part Information

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: 13511333
- Service Connector: 13511333
- Description: 32-Way F 0.64 Micro-Quadlock Series(GY)

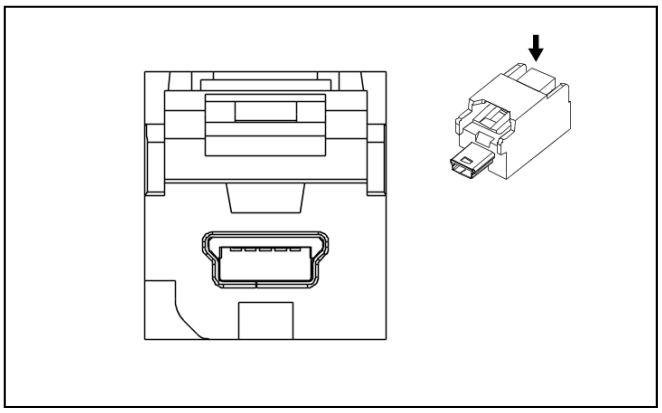
Terminal Part Information

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) 0.35	(11) GY / BK	(11) 4787	(11) Day Night LED Control	(11) I	(11) —
(12) 12	(12) 0.35	(12) GY / YE	(12) 3885	(12) Forward Collision Alert LED Control	(12) I	(12) —
(13) 13	(13) 0.35	(13) BU / WH	(13) 4985	(13) AUTOSAR CAN Bus [+] 5 Serial Data	(13) I	(13) —
(14) 14	(14) 0.35	(14) BU / YE	(14) 4984	(14) AUTOSAR CAN Bus [-] 5 Serial Data	(14) I	(14) —
15 - 16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.35	(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) 0.35	(29) BU / WH	(29) 4985	(29) AUTOSAR CAN Bus [+] 5 Serial Data	(29) I	(29) —
(30) 30	(30) 0.35	(30) BU / YE	(30) 4984	(30) AUTOSAR CAN Bus [-] 5 Serial Data	(30) I	(30) —
31	—	—	—	Not Occupied	—	—
(32) 32	(32) 0.35	(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
- OEM Connector: 13893437
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 5-Way M 2.0 Mini-B USB Type(GY)

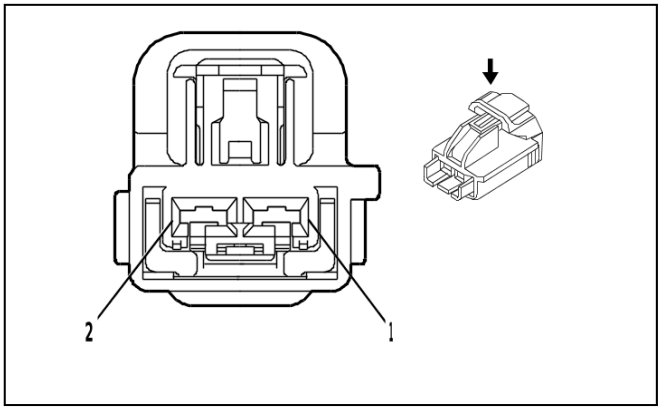
Terminal Part Information

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
—	—	LVDS	—	(Head Up Display) Head Up Display Signal	I	—

P19AFC Front Floor Speaker - Console



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)

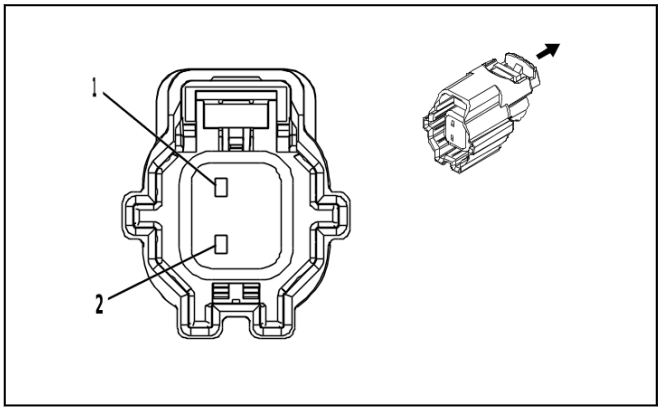
Terminal Part Information

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

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 - Left
- OEM Connector: 34062-0044
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 MX Series, Sealed(BK)

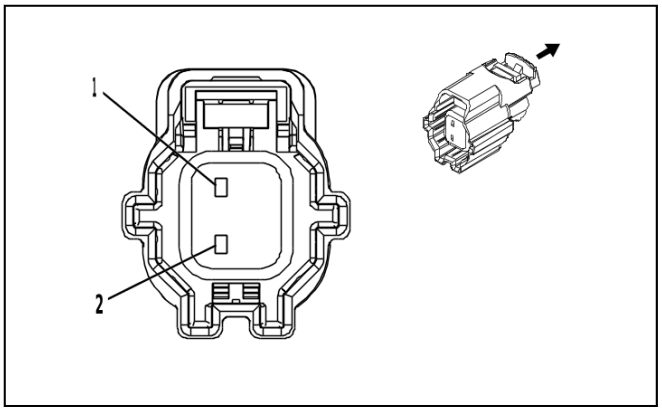
Terminal Part Information

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 - Right
- OEM Connector: 34062-0044
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 MX Series, Sealed(BK)

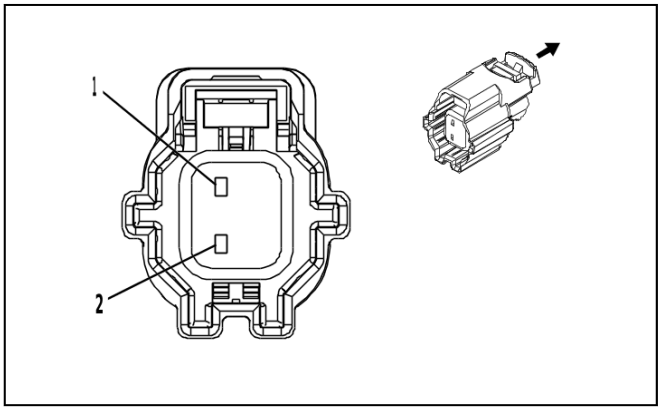
Terminal Part Information

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
- OEM Connector: 34062-0044
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 MX Series, Sealed(BK)

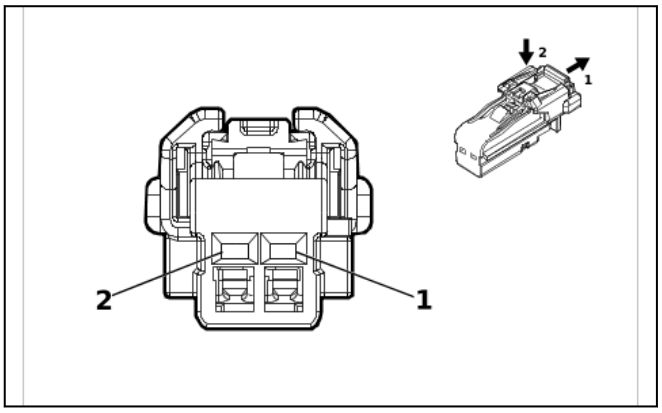
Terminal Part Information

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) —

P19ALU Radio Rear Side Door Upper Speaker - Left



4115691

Connector Part Information

- Harness Type: Rear Side Door Wiring Harness
- OEM Connector: 35311666
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

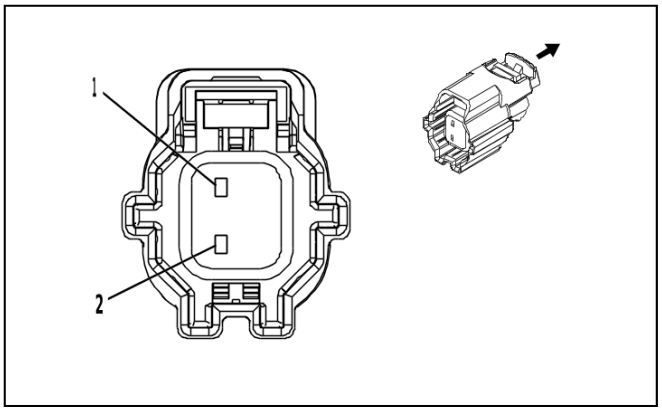
Terminal Part Information

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

P19ALU Radio Rear Side Door Upper 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
- OEM Connector: 34062-0044
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 MX Series, Sealed(BK)

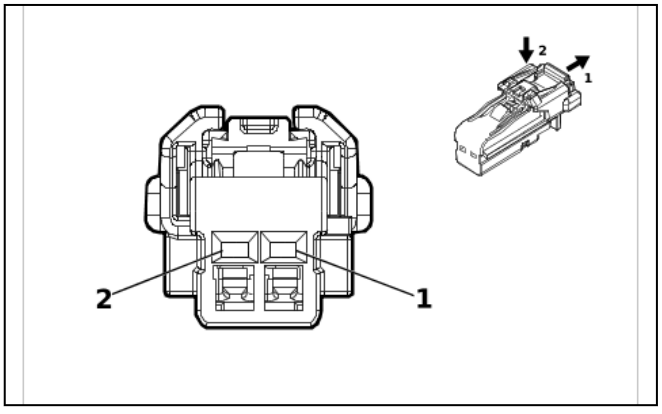
Terminal Part Information

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) —

P19AMU Radio Rear Side Door Upper Speaker - Right



4115691

Connector Part Information
- Harness Type: Rear Side Door Wiring Harness - Right
- OEM Connector: 35311666
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BK)

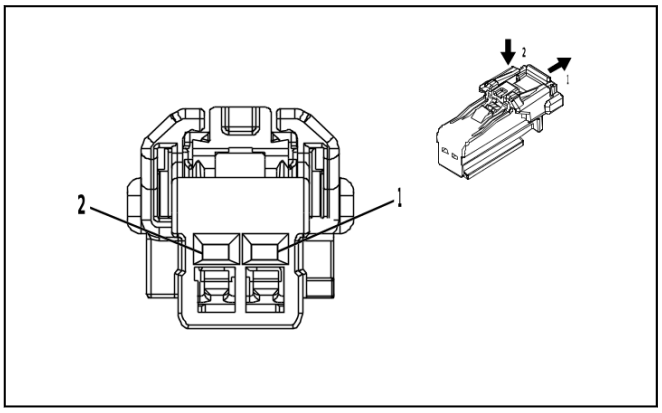
Terminal Part Information

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

P19AMU Radio Rear Side Door Upper Speaker - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) BU / BK	(1) 115	(1) Right Rear Speaker [-] Control	(1) I	(1) —
(2) 2	(2) —	(2) WH	(2) 46	(2) Right Rear Speaker [+] Control	(2) I	(2) —

P19B Radio Front Center Speaker



4373379

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6098-8989
- Service Connector: 19369632
- Description: 2-Way F 1.2 MCON Series(GY)

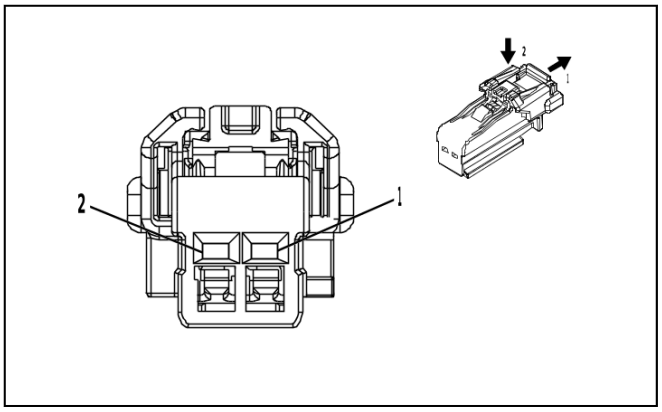
Terminal Part Information

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

P19B Radio Front Center Speaker

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / YE	(1) 1960	(1) Front Center Speaker [-] Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) YE / WH	(2) 1860	(2) Front Center Speaker [+] Control	(2) I	(2) —

P19J Radio Front Speaker - Instrument Panel Left (UQA / UQS)



4373379

Connector Part Information
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6098-8989
- Service Connector: 19369632
- Description: 2-Way F 1.2 MCON Series(GY)

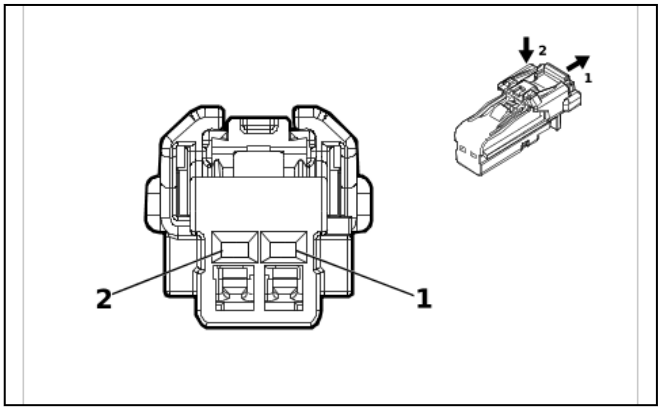
Terminal Part Information

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

P19J Radio Front Speaker - Instrument Panel Left (UQA / UQS)

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) —
(2) 2	(2) 0.75	(2) BU / VT	(2) 1857	(2) Left Front Midrange Speaker [+] Control	(2) I	(2) —

P19J Radio Front Speaker - Instrument Panel Left (UQF / UQS)



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)

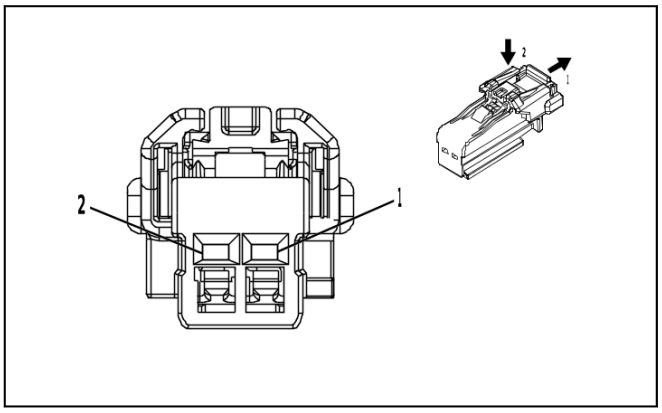
Terminal Part Information

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

P19J Radio Front Speaker - Instrument Panel Left (UQF / UQS)

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) —

P19W Radio Front Speaker - Instrument Panel Right (UQA / UQS)



4373379

Connector Part Information

- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6098-8989
- Service Connector: 19369632
- Description: 2-Way F 1.2 MCON Series(GY)

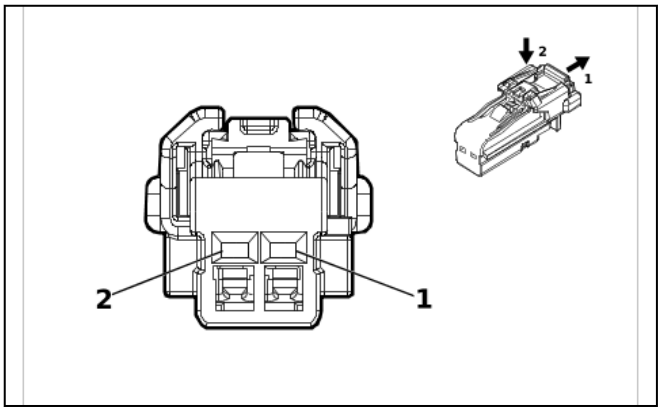
Terminal Part Information

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

P19W Radio Front Speaker - Instrument Panel Right (UQA / UQS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / BK	(1) 1953	(1) Right Front Midrange Speaker [-] Control	(1) I	(1) —
(2) 2	(2) 0.75	(2) WH / YE	(2) 1853	(2) Right Front Midrange Speaker [+] Control	(2) I	(2) —

P19W Radio Front Speaker - Instrument Panel Right (UQF / UQS)



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)

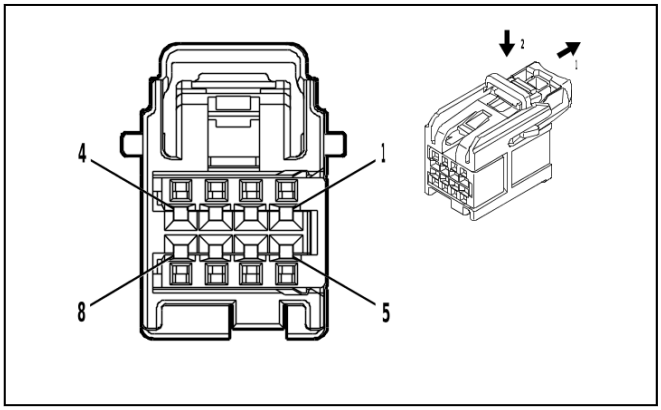
Terminal Part Information

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

P19W Radio Front Speaker - Instrument Panel Right (UQF / UQS)

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) —

P29 Head-Up Display X1



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)

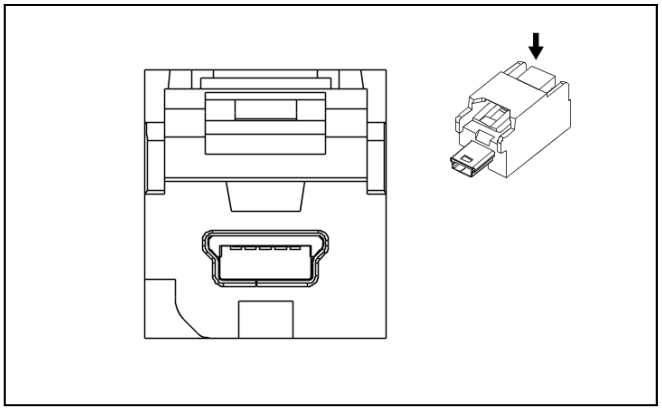
Terminal Part Information

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

P29 Head-Up Display X1

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) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.35	(3) YE / WH	(3) 622	(3) Head-Up Display Switch Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / WH	(4) 851	(4) Signal Ground	(4) I	(4) —
5	—	—	—	Not Occupied	—	—
(6) 6	(6) 0.5	(6) RD / WH	(6) 1340	(6) Battery Positive Voltage	(6) I	(6) —
7	—	—	—	Not Occupied	—	—
(8) 8	(8) 0.35	(8) BK / GN	(8) 5699	(8) Head-Up Display Switch Low Reference	(8) I	(8) —

P29 Head-Up Display X2



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)

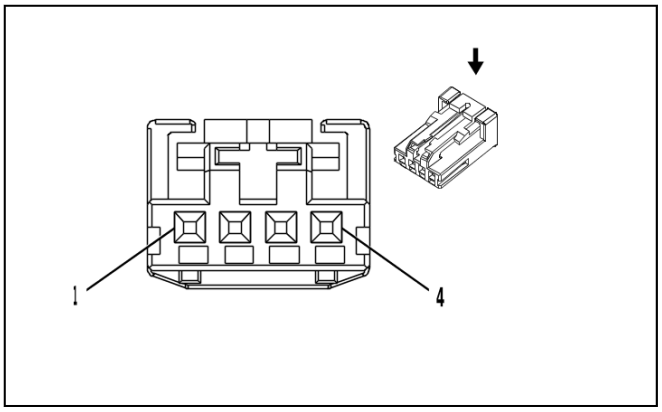
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	(Head Up Display) Head Up Display Signal	I	—

P43 Forward Collision Alert Display



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)

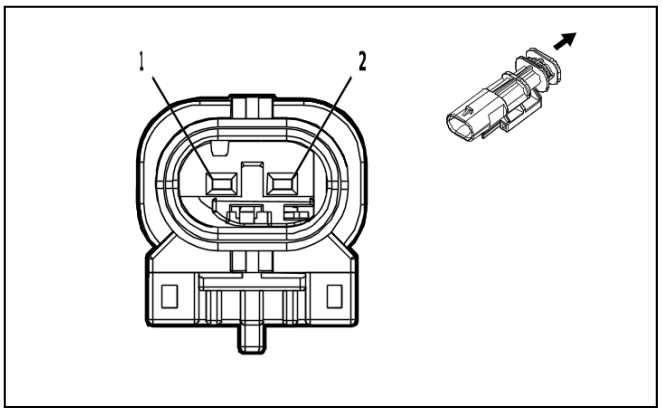
Terminal Part Information

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

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_A45
- OEM Connector: 34899-2080
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(BK)

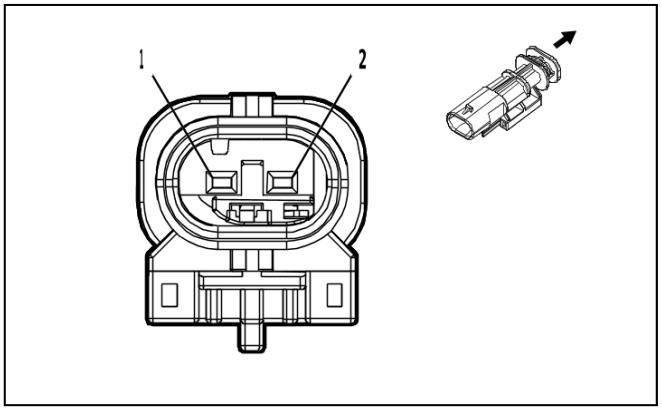
Terminal Part Information

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_A45
- OEM Connector: 34899-2080
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(BK)

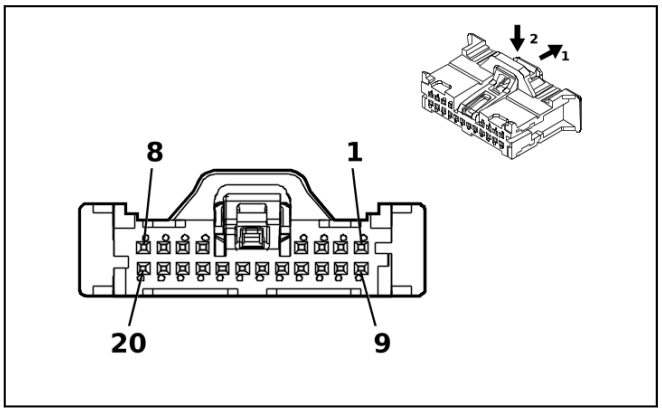
Terminal Part Information

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



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

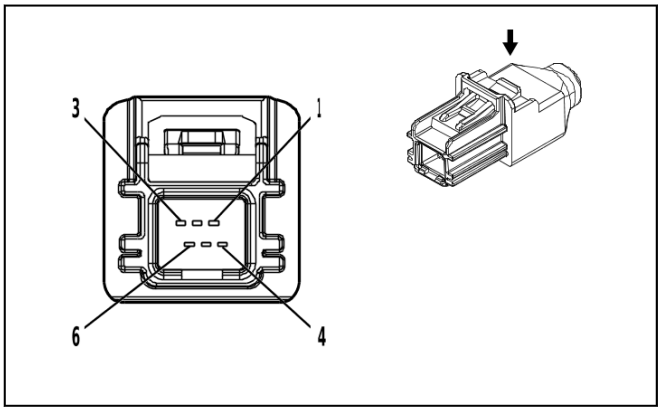
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84944580	EL-35616-58 (BK)	EL-38125-58

P53 Driver Information Display X1

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) —
(6) 6	(6) 0.35	(6) BN / WH	(6) 11233	(6) Radio Switch Power ON/OFF Switch Signal	(6) I	(6) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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) 0.35	(11) BK / WH	(11) 11252	(11) Infotainment Display Low Reference	(11) I	(11) —
(12) 12	(12) 0.35	(12) YE / RD	(12) 11236	(12) Radio Switch 5 Volt Reference	(12) I	(12) —
(13) 13	(13) 0.35	(13) BK / BU	(13) 11237	(13) Radio Switch Low Reference 1	(13) I	(13) —
(14) 14	(14) 0.35	(14) BU	(14) 11235	(14) Radio Switch Volume Up Signal	(14) I	(14) —
(15) 15	(15) 0.35	(15) GY / BN	(15) 11234	(15) Radio Switch Volume Down Signal	(15) I	(15) —
(16) 16	(16) 0.35	(16) BN / WH	(16) 11233	(16) Radio Switch Power ON/OFF Switch Signal	(16) I	(16) —
(17) 17	(17) 0.35	(17) VT / WH	(17) 11245	(17) Radio Switch Buttons Signal	(17) I	(17) —
(18) 18	(18) 0.35	(18) BU / GY	(18) 11244	(18) Radio Switch Dimming Control	(18) I	(18) —
(19) 19	(19) 0.35	(19) GY / VT	(19) 11249	(19) Infotainment Display Backlight Enable Control	(19) I	(19) —
(20) 20	(20) 0.35	(20) BK / GN	(20) 11238	(20) Radio Switch Low Reference 2	(20) I	(20) —

P53 Driver Information Display 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)

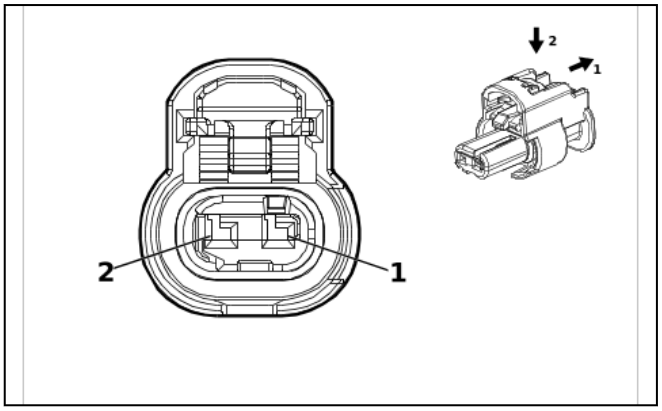
Terminal Part Information

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

P53 Driver Information Display X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	LVDS	—	(Infotainment) Infotainment Display Signal	I	—

Q2 Air Conditioning Clutch



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)

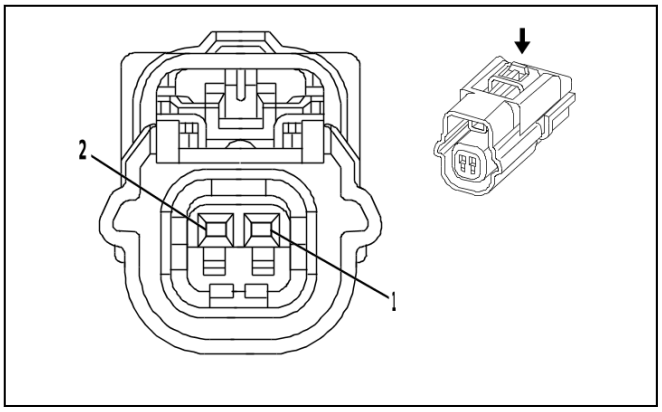
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(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) —

Q6 Camshaft Position Actuator Solenoid Valve



1664592

Connector Part Information
- Harness Type: Camshaft Position Sensor Wire
- OEM Connector: 89047381
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 0.64 Kaizen Series, Sealed(BK)

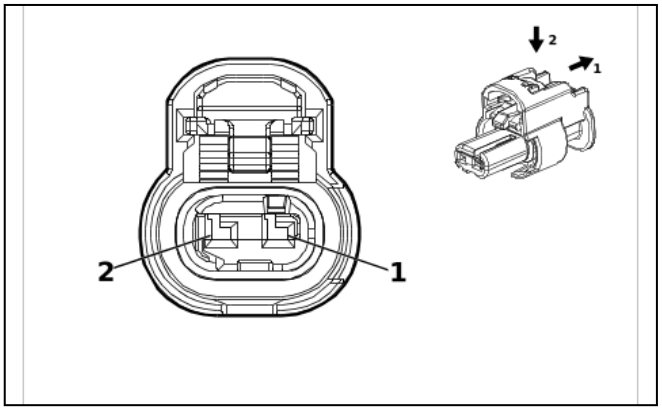
Terminal Part Information

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) —

Q9R Differential Locking Actuator - Rear



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)

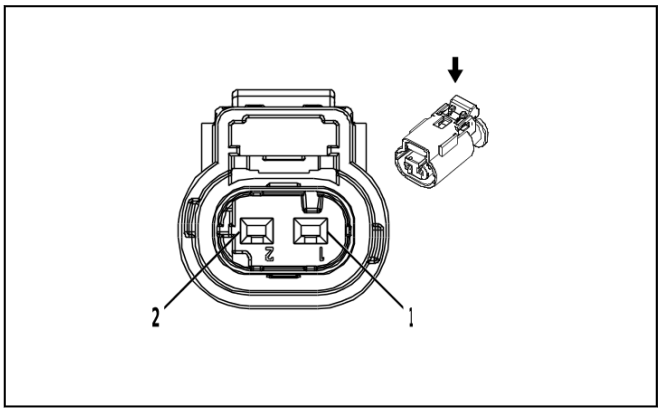
Terminal Part Information

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

Q9R Differential Locking Actuator - Rear

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) —
(2) 2	(2) 0.75	(2) GY / BK	(2) 7253	(2) Rear Differential Lock Actuator Low Control	(2) I	(2) —

Q12 Evaporative Emission Canister Purge Solenoid Valve



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)

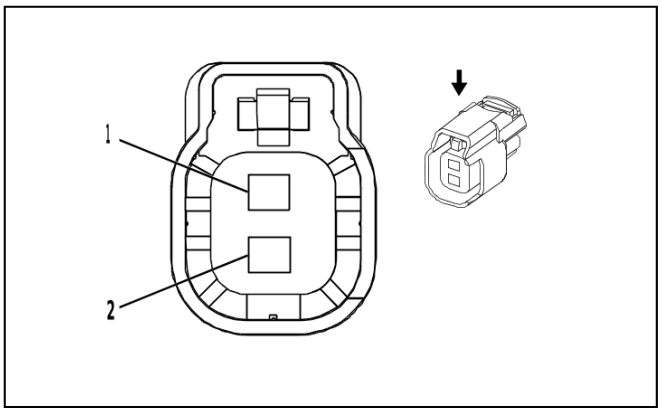
Terminal Part Information

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

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



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)

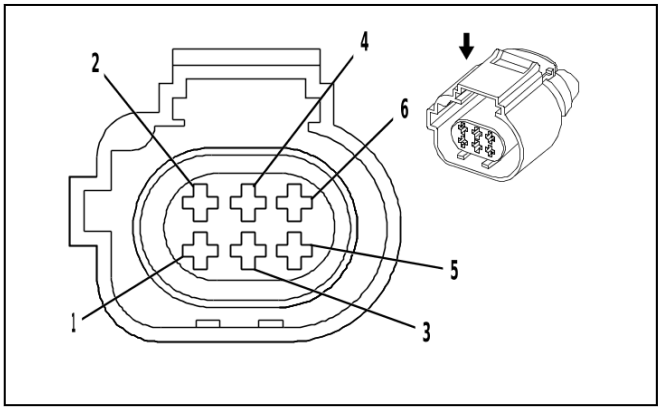
Terminal Part Information

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

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) —

Q14 Exhaust Gas Recirculation Valve



2216905

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 284716-5
- Service Connector: 19354082
- Description: 6-Way F 1.6 Micro-Timer Series, Sealed(GY)

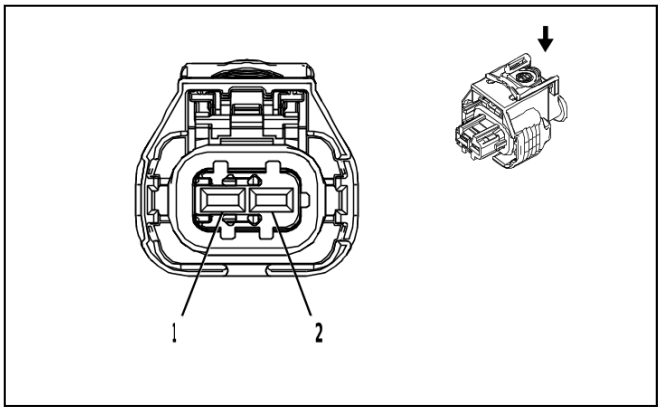
Terminal Part Information

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

Q14 Exhaust Gas Recirculation Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / VT	(1) 5764	(1) Exhaust Gas Recirculation Valve High Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / WH	(2) 5763	(2) Exhaust Gas Recirculation Position Signal	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(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) VT / BK	(5) 5746	(5) Exhaust Gas Recirculation Valve Low Control	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / RD	(6) 460	(6) Engine Control Sensors 5 Volt Reference 1	(6) I	(6) —

Q17A Fuel Injector 1 (L5P)



2845578

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 13343445
- Service Connector: 19368140
- Description: 2-Way F 2.8 Series, Sealed(BK)

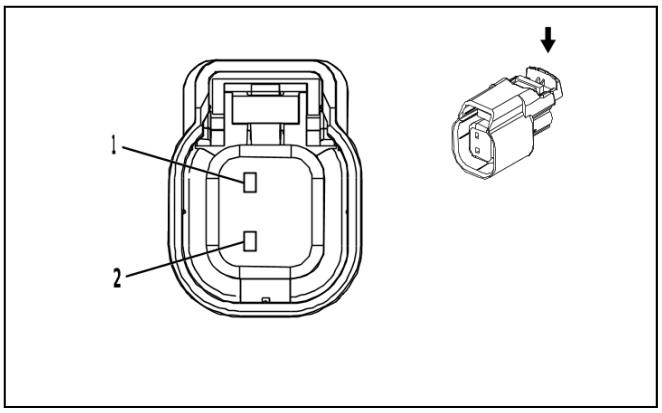
Terminal Part Information

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 (L5P)

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 (L8T)



2792100

Connector Part Information
- Harness Type: Fuel Injector Wiring Harness - Left
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

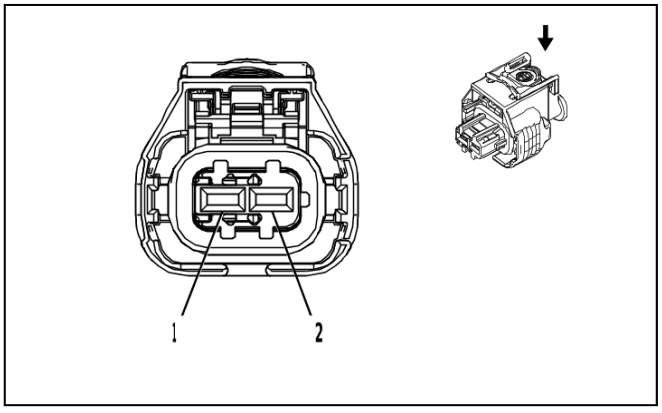
Terminal Part Information

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 (L8T)

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) —

Q17B Fuel Injector 2 (L5P)



2845578

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13343445
- Service Connector: 19368140
- Description: 2-Way F 2.8 Series, Sealed(BK)

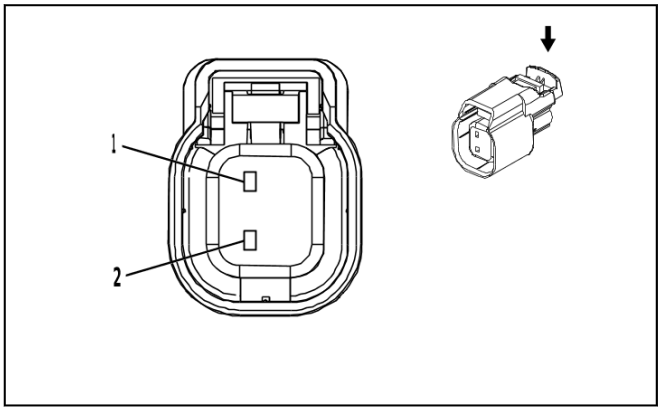
Terminal Part Information

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 (L5P)

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 (L8T)



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Right
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

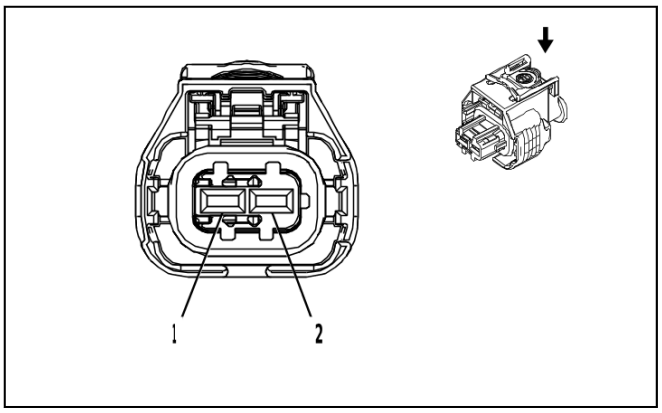
Terminal Part Information

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 (L8T)

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) —

Q17C Fuel Injector 3 (L5P)



2845578

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13343445
- Service Connector: 19368140
- Description: 2-Way F 2.8 Series, Sealed(BK)

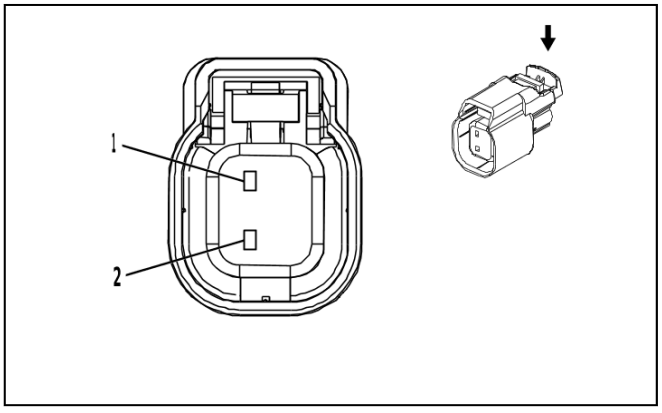
Terminal Part Information

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 (L5P)

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 (L8T)



2792100

Connector Part Information
- Harness Type: Fuel Injector Wiring Harness - Left
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

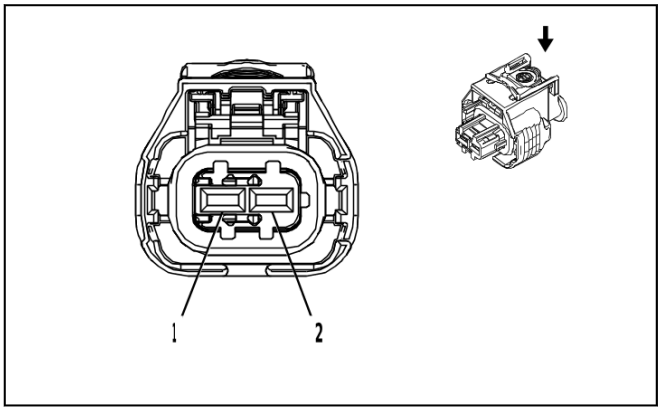
Terminal Part Information

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 (L8T)

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) —

Q17D Fuel Injector 4 (L5P)



2845578

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13343445
- Service Connector: 19368140
- Description: 2-Way F 2.8 Series, Sealed(BK)

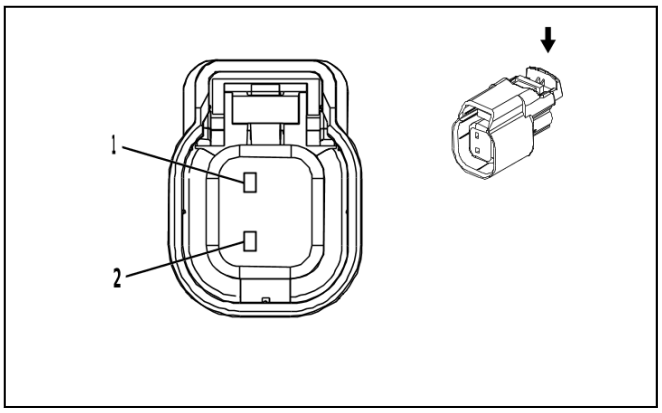
Terminal Part Information

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 (L5P)

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 (L8T)



2792100

Connector Part Information
- Harness Type: Fuel Injector Wiring Harness - Right
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

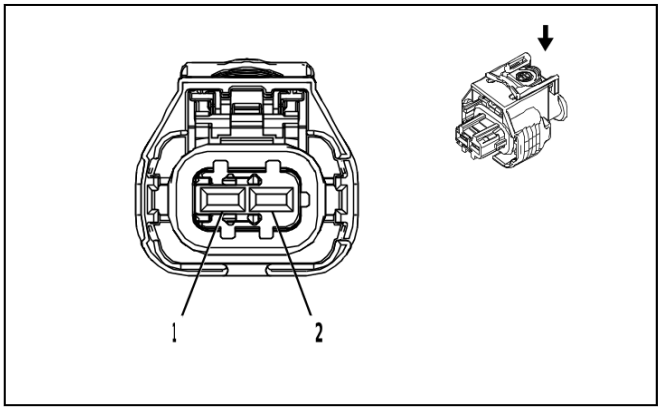
Terminal Part Information

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 (L8T)

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) —

Q17E Fuel Injector 5 (L5P)



2845578

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13343445
- Service Connector: 19368140
- Description: 2-Way F 2.8 Series, Sealed(BK)

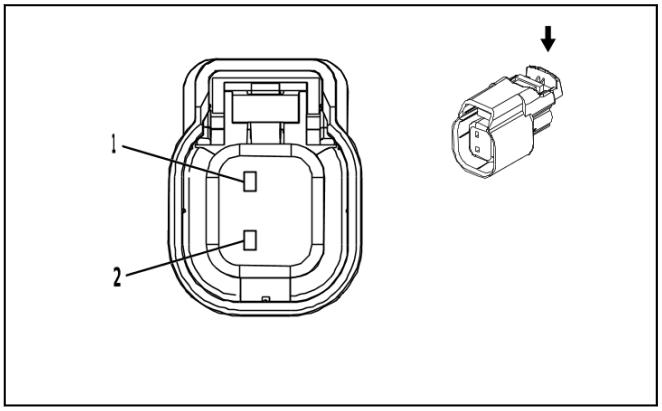
Terminal Part Information

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 (L5P)

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 (L8T)



2792100

Connector Part Information

- Harness Type: Fuel Injector Wiring Harness - Left
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

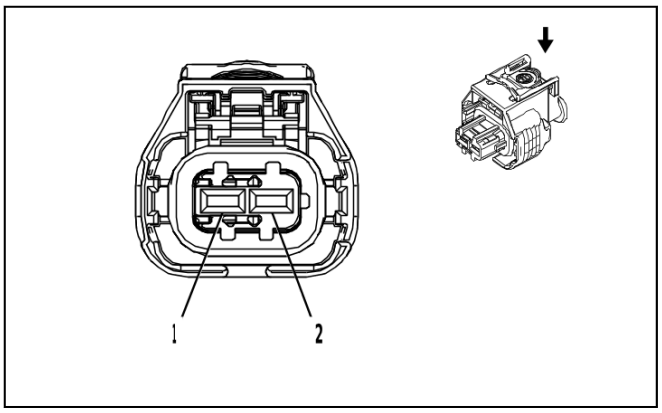
Terminal Part Information

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 (L8T)

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) —

Q17F Fuel Injector 6 (L5P)



2845578

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13343445
- Service Connector: 19368140
- Description: 2-Way F 2.8 Series, Sealed(BK)

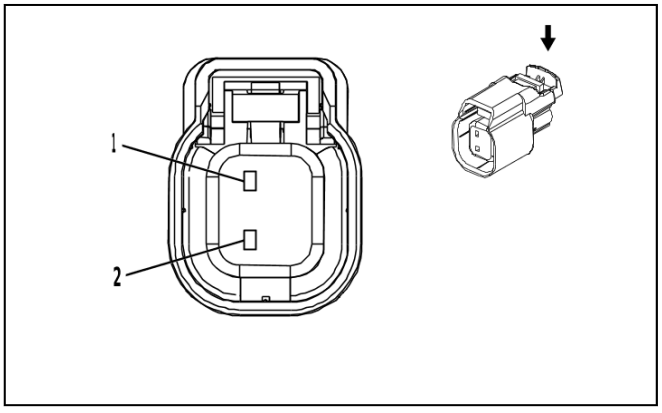
Terminal Part Information

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 (L5P)

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 (L8T)



2792100

Connector Part Information
- Harness Type: Fuel Injector Wiring Harness - Right
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

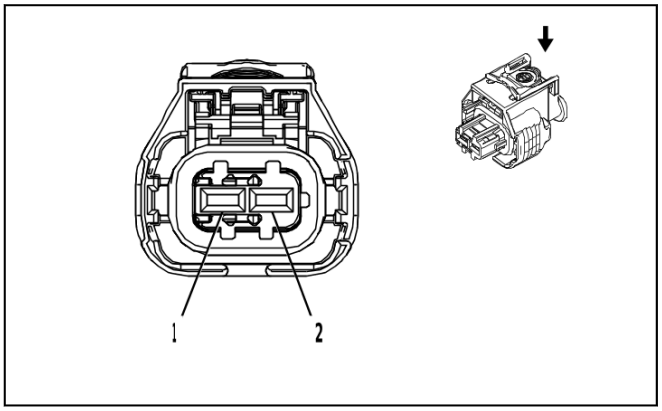
Terminal Part Information

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 (L8T)

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) —

Q17G Fuel Injector 7 (L5P)



2845578

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 13343445
- Service Connector: 19368140
- Description: 2-Way F 2.8 Series, Sealed(BK)

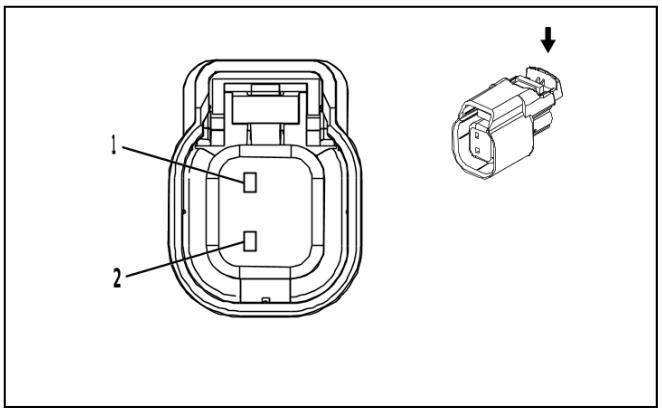
Terminal Part Information

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

Q17G Fuel Injector 7 (L5P)

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) —

Q17G Fuel Injector 7 (L8T)



2792100

Connector Part Information
- Harness Type: Fuel Injector Wiring Harness - Left
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

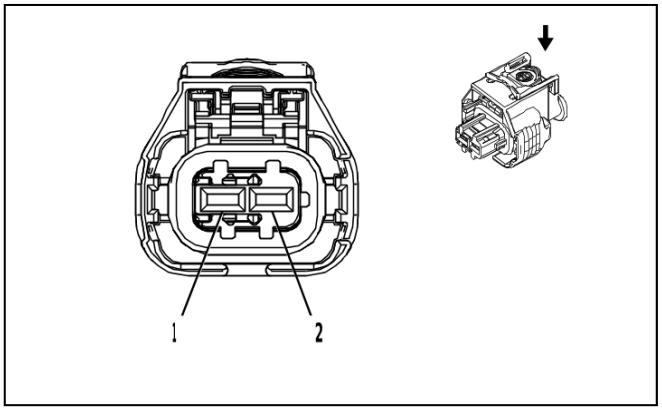
Terminal Part Information

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 (L8T)

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 (L5P)



2845578

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13343445
- Service Connector: 19368140
- Description: 2-Way F 2.8 Series, Sealed(BK)

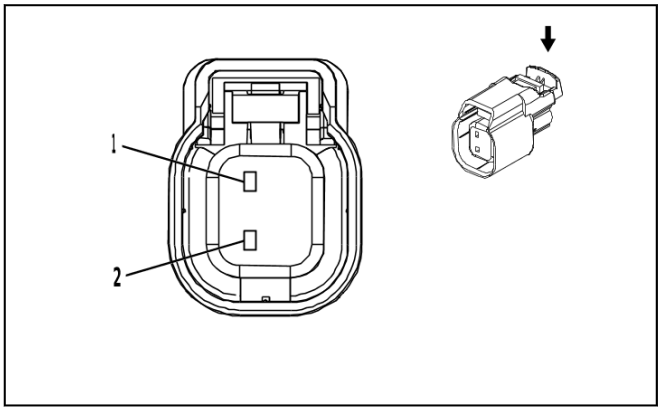
Terminal Part Information

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

Q17H Fuel Injector 8 (L5P)

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) —

Q17H Fuel Injector 8 (L8T)



2792100

Connector Part Information
- Harness Type: Fuel Injector Wiring Harness - Right
- OEM Connector: 340624008
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.5 Series, Sealed(BK)

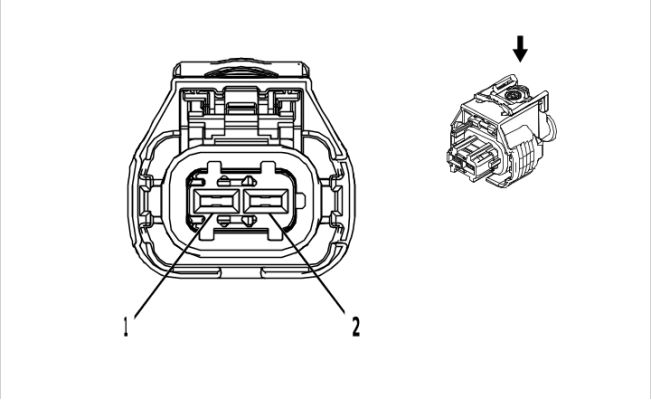
Terminal Part Information

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 (L8T)

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



2577394

Connector Part Information
- Harness Type: Fuel Pressure Regulator 1 Jumper Harness
- OEM Connector: 13343443
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 2.8 Series, Sealed(BK)

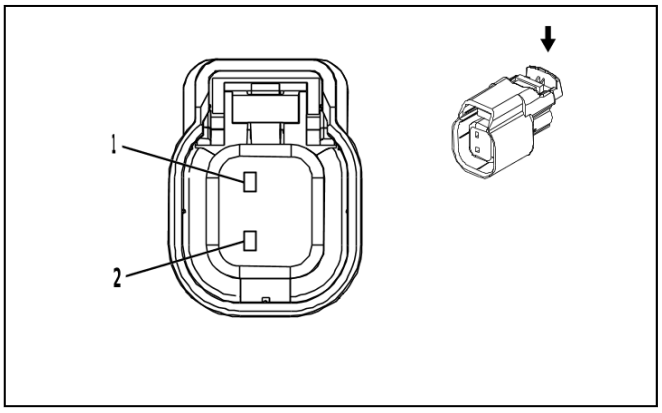
Terminal Part Information

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

Q18A Fuel Pressure Regulator 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) BN / BK	(1) 2929	(1) Fuel Metering Solenoid Valve Low Control	(1) I	(1) —
(2) 2	(2) —	(2) YE	(2) 2928	(2) Fuel Metering Solenoid Valve High Control	(2) I	(2) —

Q18B Fuel Pressure Regulator 2



2792100

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13581410
- Service Connector: 19352068
- Description: 2-Way F 1.5 Series, Sealed(BK)

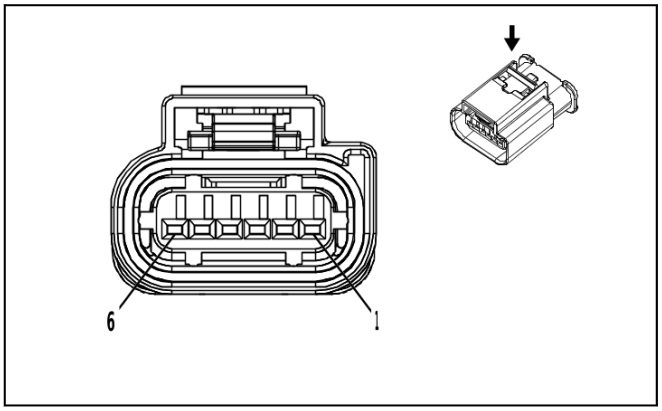
Terminal Part Information

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

Q18B Fuel Pressure Regulator 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / WH	(1) 2530	(1) Fuel Rail Pressure Solenoid Valve Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 2834	(2) Fuel Rail Pressure Solenoid Valve Low Control	(2) I	(2) —

Q20 Intake Airflow Control Valve



3747579

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13507087
- Service Connector: 19352911
- Description: 6-Way F 1.2 MCON Series, Sealed(BK)

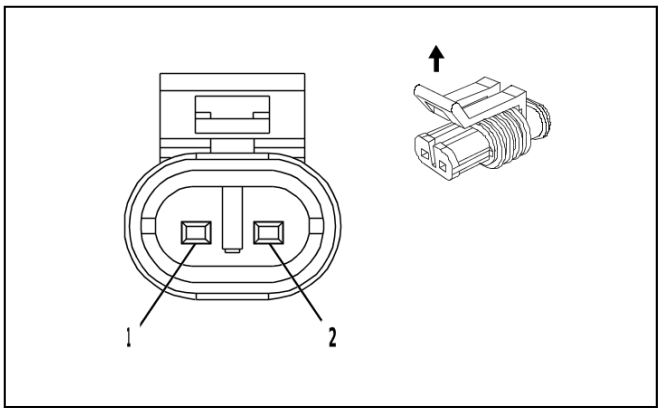
Terminal Part Information

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

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 / 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	—	—

Q32P Shift Solenoid Valve - Power Take-Off (- (NQF / NQH))



2448482

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 282080-1
- Service Connector: 88988136
- Description: 2-Way F 1.5 Series, Sealed(BK)

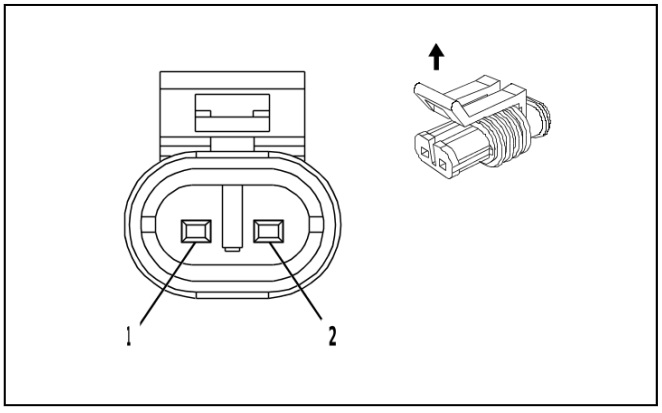
Terminal Part Information

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

Q32P Shift Solenoid Valve - Power Take-Off (- (NQF / NQH))

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / WH	(1) 8235	(1) Power Take Off Solenoid Control High	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / WH	(2) 8236	(2) Power Take Off Solenoid Control Low	(2) I	(2) —

Q32P Shift Solenoid Valve - Power Take-Off (NQF / NQH)



2448482

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 282080-1
- Service Connector: 88988136
- Description: 2-Way F 1.5 Series, Sealed(BK)

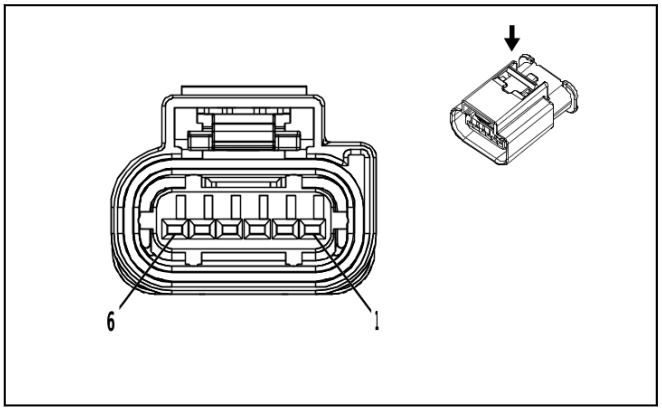
Terminal Part Information

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

Q32P Shift Solenoid Valve - Power Take-Off (NQF / NQH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / WH	(1) 8235	(1) Power Take Off Solenoid Control High	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / WH	(2) 8236	(2) Power Take Off Solenoid Control Low	(2) I	(2) —

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)

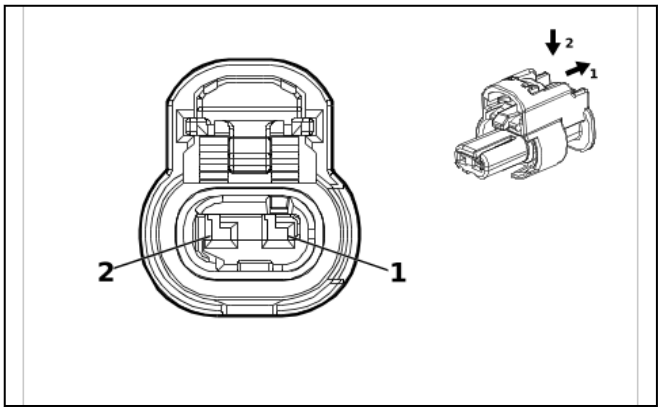
Terminal Part Information

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	—	—

Q44 Engine Oil Pressure Control Solenoid Valve



4036662

Connector Part Information
- Harness Type: Oil Pump Flow Control Solenoid Valve Wire
- OEM Connector: 1-2296704-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

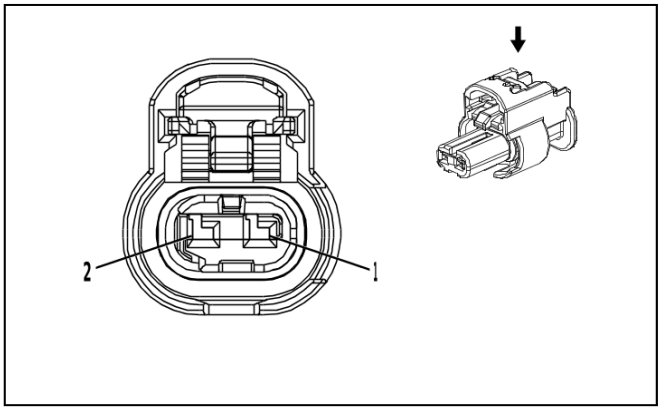
Terminal Part Information

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

Q44 Engine Oil Pressure Control Solenoid Valve

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) BU	(2) 179	(2) Engine Oil Pump Control	(2) I	(2) —

Q46 Air Conditioning Compressor Solenoid Valve



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)

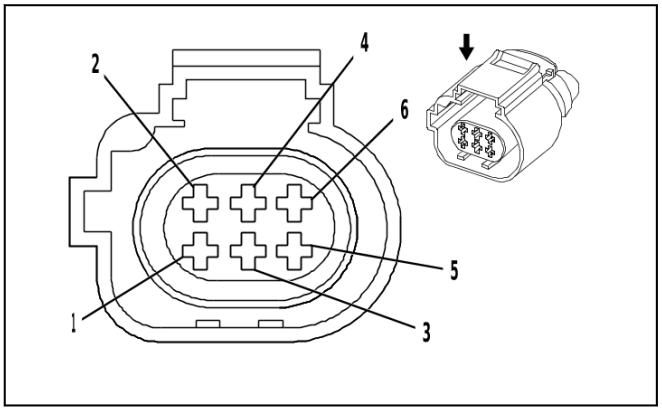
Terminal Part Information

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

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) —

Q47 Exhaust Gas Recirculation Cooler Bypass Solenoid Valve



2216905

Connector Part Information

- Harness Type: Engine Wiring Harness
- OEM Connector: 284716-5
- Service Connector: 19354082
- Description: 6-Way F 1.6 Micro-Timer Series, Sealed(GY)

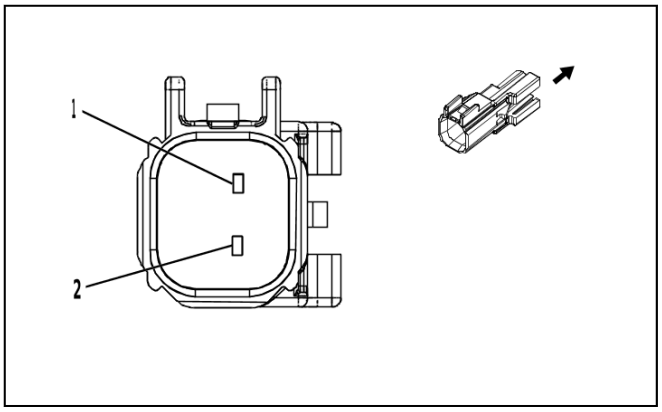
Terminal Part Information

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

Q47 Exhaust Gas Recirculation Cooler Bypass Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / VT	(1) 3656	(1) EGR Cooler Bypass Valve Close Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) GN / GY	(2) 3654	(2) EGR Cooler Bypass Valve Position Sensor Signal	(2) I	(2) —
3	—	—	—	Not Occupied	—	—
(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) YE / GN	(5) 3655	(5) EGR Cooler Bypass Valve Open Control	(5) I	(5) —
(6) 6	(6) 0.5	(6) BU / RD	(6) 460	(6) Engine Control Sensors 5 Volt Reference 1	(6) I	(6) —

Q61 Reductant Fluid Injector



3271068

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 34675-0003
- Service Connector: 19301583
- Description: 2-Way M 1.5 Series, Sealed(BK)

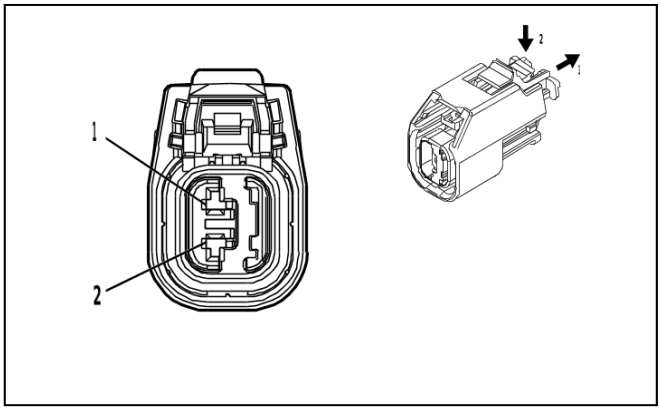
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-3 (GY)	No Tool Required

Q61 Reductant Fluid Injector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / WH	(1) 3100	(1) Diesel Exhaust Fluid Dosing Valve Low Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN	(2) 3099	(2) Diesel Exhaust Fluid Dosing Valve High Control	(2) I	(2) —

Q64 Evaporative Emission System Switching Valve



4889830

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 33164011
- Service Connector: 86802964
- Description: 2-Way F 1.5 OCS Series, Sealed(BK)

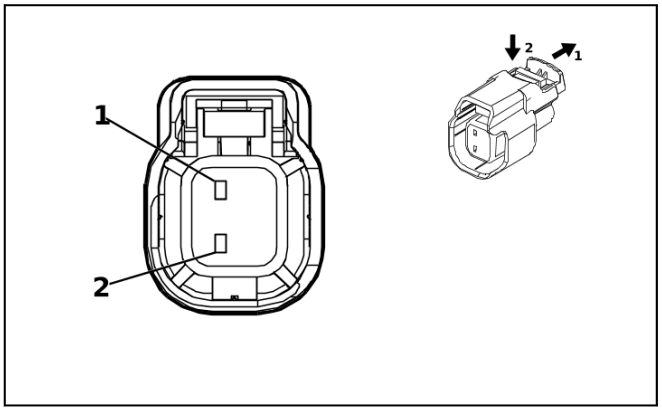
Terminal Part Information

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

Q64 Evaporative Emission System Switching Valve

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) WH / RD	(2) 11031	(2) Fuel Tank Isolation Valve Supply Voltage	(2) I	(2) —

Q67 Exhaust Aftertreatment Fuel Injector - Chassis Cab



5199958

Connector Part Information

- Harness Type: Chassis Wiring Harness
- OEM Connector: 34062-0025
- Service Connector: 13580230
- Description: 2-Way F 1.5 Series, Sealed(BK)

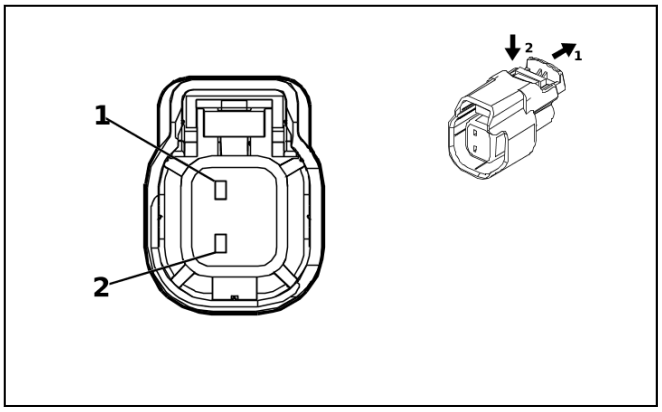
Terminal Part Information

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

Q67 Exhaust Aftertreatment Fuel Injector - Chassis Cab

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BN	(1) 2927	(1) Exhaust Aftertreatment Fuel Injector Low Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / BU	(2) 2926	(2) Exhaust Aftertreatment Fuel Injector High Control	(2) I	(2) —

Q67 Exhaust Aftertreatment Fuel Injector - Pickup



5199958

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 34062-4006
- Service Connector: 84769203
- Description: 2-Way F 1.5 Series, Sealed(BK)

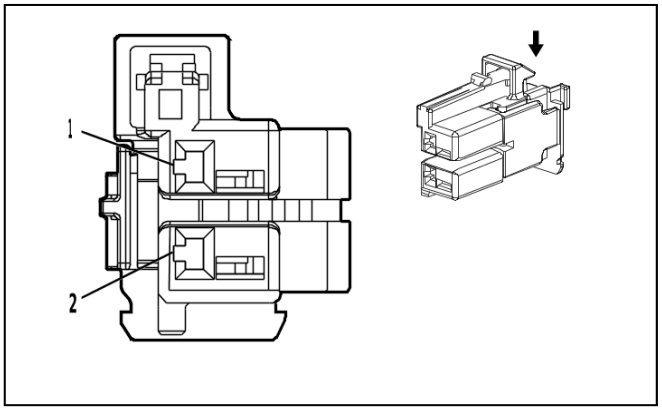
Terminal Part Information

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

Q67 Exhaust Aftertreatment Fuel Injector - Pickup

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BN	(1) 2927	(1) Exhaust Aftertreatment Fuel Injector Low Control	(1) I	(1) —
(2) 2	(2) 0.5	(2) BN / BU	(2) 2926	(2) Exhaust Aftertreatment Fuel Injector High Control	(2) I	(2) —

Q77A Transmission Control Solenoid Valve 1 (MGM / MGU / MKM)



4672650

Connector Part Information
- Harness Type: Transmission Control
- OEM Connector: 2289523-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BN)

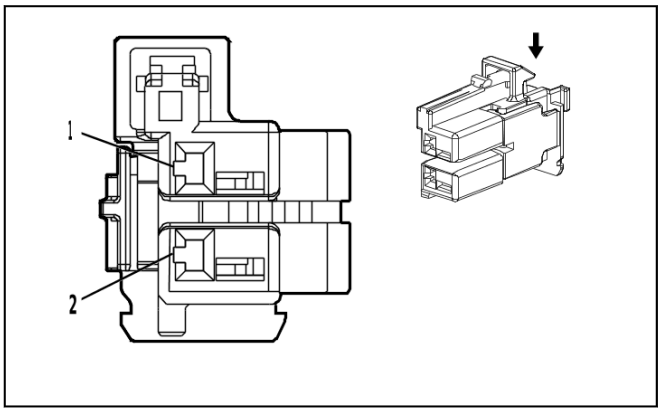
Terminal Part Information

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

Q77A Transmission Control Solenoid Valve 1 (MGM / MGU / MKM)

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) BU / GN	(2) 6404	(2) Clutch Solenoid Valve E Control	(2) I	(2) —

Q77B Transmission Control Solenoid Valve 2 (MGM / MGU / MKM)



4672650

Connector Part Information

- Harness Type: Transmission Control
- OEM Connector: 2289523-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BN)

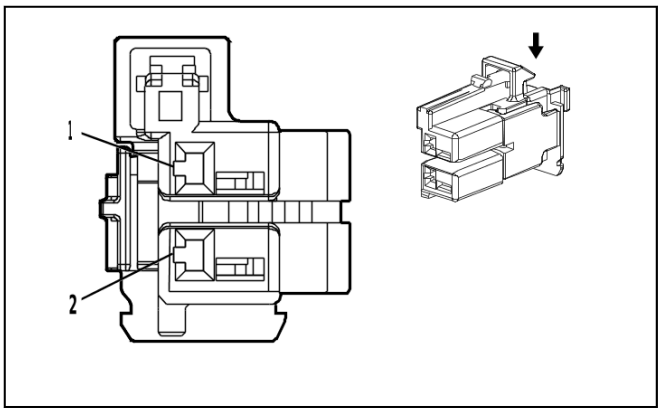
Terminal Part Information

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

Q77B Transmission Control Solenoid Valve 2 (MGM / MGU / MKM)

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) GN / BN	(2) 6403	(2) Clutch Solenoid Valve D Control	(2) I	(2) —

Q77C Transmission Control Solenoid Valve 3 (MGM / MGU / MKM)



4672650

Connector Part Information
- Harness Type: Transmission Control
- OEM Connector: 2289523-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BN)

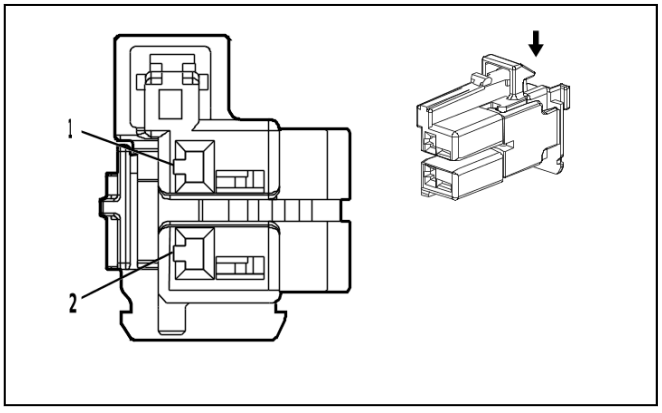
Terminal Part Information

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

Q77C Transmission Control Solenoid Valve 3 (MGM / MGU / MKM)

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) GY	(2) 6402	(2) Clutch Solenoid Valve C Control	(2) I	(2) —

Q77D Transmission Control Solenoid Valve 4 (MGM / MGU / MKM)



4672650

Connector Part Information
- Harness Type: Transmission Control
- OEM Connector: 2289523-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BN)

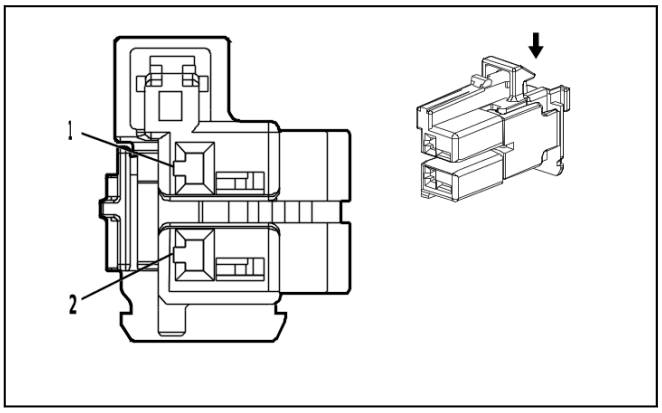
Terminal Part Information

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

Q77D Transmission Control Solenoid Valve 4 (MGM / MGU / MKM)

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) BN / WH	(2) 4509	(2) Transmission Clutch F Control	(2) I	(2) —

Q77E Transmission Control Solenoid Valve 5 (MGM / MGU / MKM)



4672650

Connector Part Information

- Harness Type: Transmission Control
- OEM Connector: 2289523-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BN)

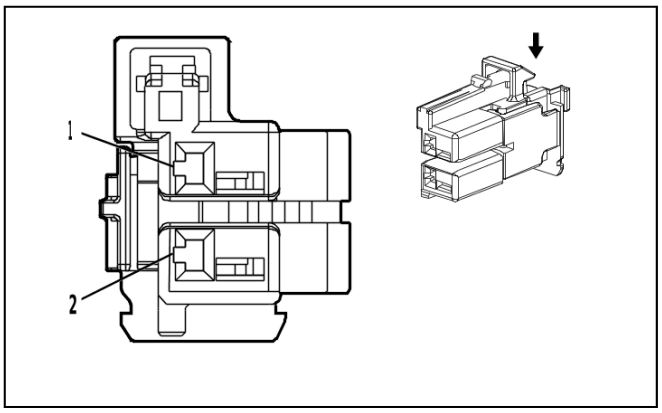
Terminal Part Information

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 (MGM / MGU / MKM)

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) —

Q77F Transmission Control Solenoid Valve 6 (MGM / MGU / MKM)



4672650

Connector Part Information
- Harness Type: Transmission Control
- OEM Connector: 2289523-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BN)

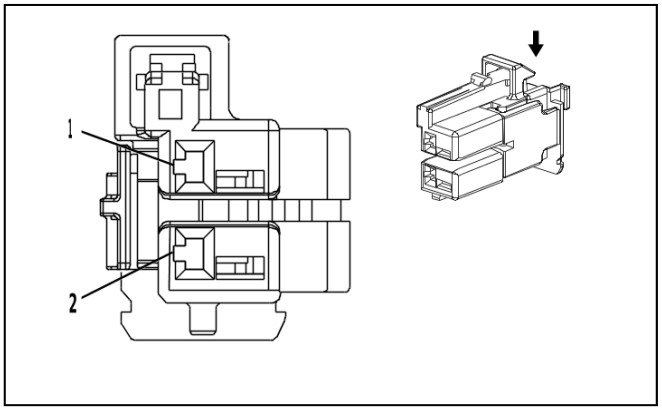
Terminal Part Information

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

Q77F Transmission Control Solenoid Valve 6 (MGM / MGU / MKM)

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) BU / GY	(2) 4508	(2) Transmission Clutch G Control	(2) I	(2) —

Q77G Transmission Control Solenoid Valve 7 (MGM / MGU / MKM)



4364736

Connector Part Information
- Harness Type: Transmission Control Wiring Harness
- OEM Connector: 2289523-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(BU)

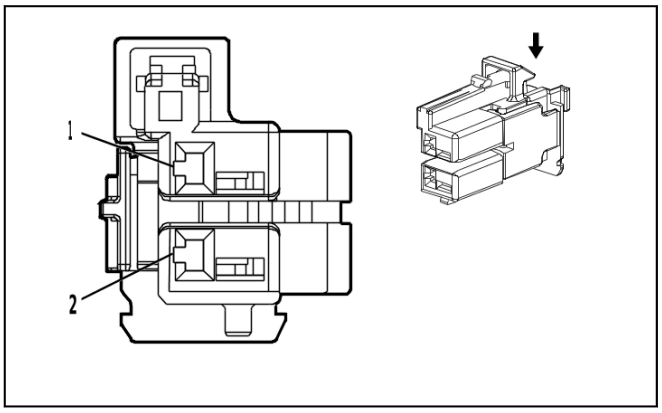
Terminal Part Information

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

Q77G Transmission Control Solenoid Valve 7 (MGM / MGU / MKM)

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) GN / OG	(2) 1530	(2) Transmission Line Pressure Control Solenoid Valve Control	(2) I	(2) —

Q77H Transmission Control Solenoid Valve 8 (MGM / MGU / MKM)



4672683

Connector Part Information

- Harness Type: Transmission Control Wiring Harness
- OEM Connector: 2289523-3
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(GN)

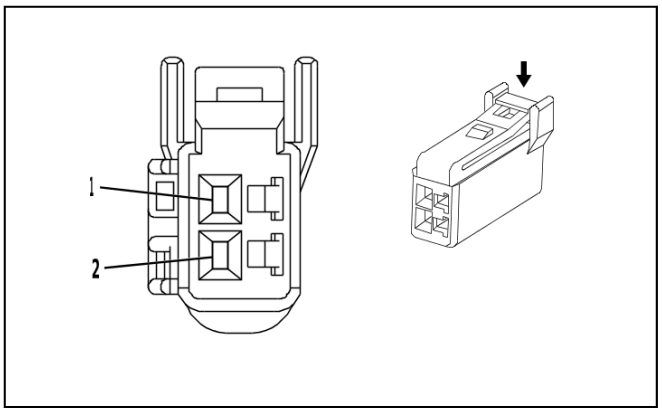
Terminal Part Information

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

Q77H Transmission Control Solenoid Valve 8 (MGM / MGU / MKM)

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) GY / BN	(2) 422	(2) Torque Converter Clutch Solenoid Valve Control	(2) I	(2) —

Q77J Transmission Control Solenoid Valve 9 (MGM / MGU / MKM)



4051682

Connector Part Information
- Harness Type: Transmission Control Wiring Harness
- OEM Connector: 7287-0122
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 040 III Series(NA)

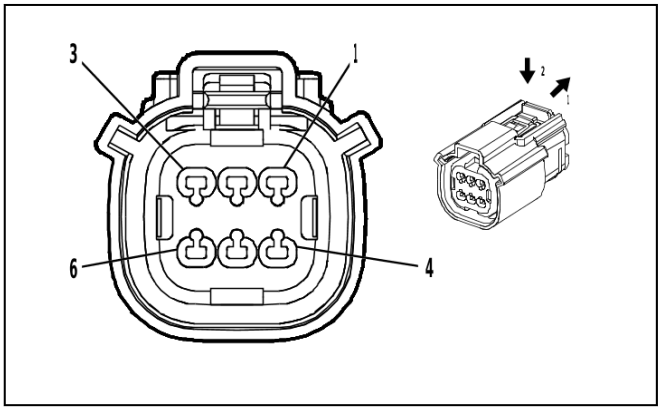
Terminal Part Information

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

Q77J Transmission Control Solenoid Valve 9 (MGM / MGU / MKM)

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) VT	(2) 7819	(2) Default Disable Solenoid Control	(2) I	(2) —

Q85 Cooling Fan Clutch



4574736

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 33472-0681
- Service Connector: 13578533
- 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-35616-14 (GN)	No Tool Required

Q85 Cooling Fan Clutch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) BK	(1) 450	(1) Ground	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5	(3) WH	(3) 2368	(3) Cooling Fan Control Signal	(3) I	(3) —
(4) 4	(4) 0.5	(4) BK / GY	(4) 626	(4) Engine Control Vehicle Sensors Low Reference 1	(4) I	(4) —
(5) 5	(5) 0.5	(5) BU / VT	(5) 2364	(5) Cooling Fan Speed Signal	(5) I	(5) —
(6) 6	(6) 0.5	(6) WH / RD	(6) 480	(6) Engine Control Vehicle Sensors 5 Volt Reference 1	(6) I	(6) —

R12 Power Take-Off Switch Diode (PTO)

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Connector Part Information

- Harness Type: PTO Harness
- OEM Connector: DID00000
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way

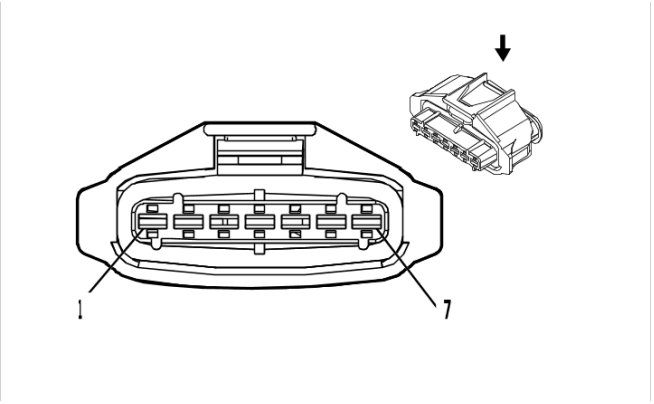
Terminal Part Information

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

R12 Power Take-Off Switch Diode (PTO)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	BU / BN	4408	Power Take-Off Enable Signal	I	—
C	—	GY / GN	6239	Transmission Power Take-Off Engage/ Disengage Signal Power	I	—

R29 Fuel Filter



2537256

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 1928403222
- Service Connector: 19354080
- Description: 7-Way F 2.8 Junior Power Timer Series, Sealed(BK)

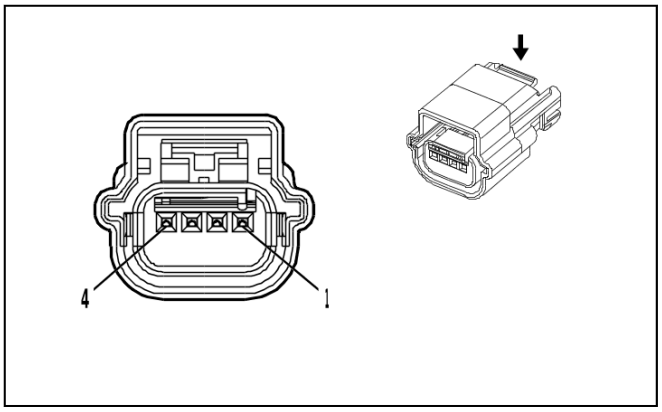
Terminal Part Information

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

R29 Fuel Filter

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BK / WH	(1) 1951	(1) Signal 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 (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)

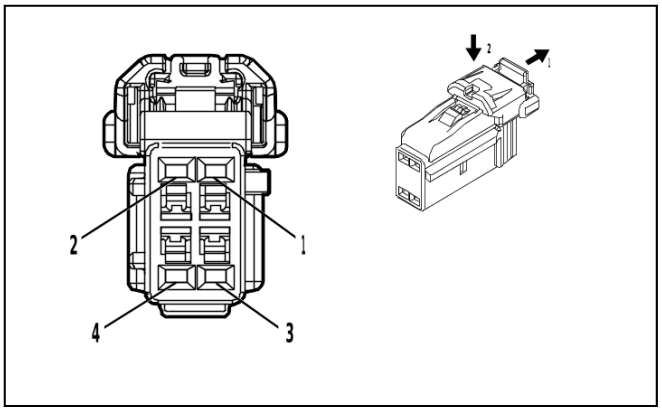
Terminal Part Information

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 (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) WH / RD	(4) 480	(4) Engine Control Vehicle Sensors 5 Volt Reference 1	(4) I	(4) —

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)

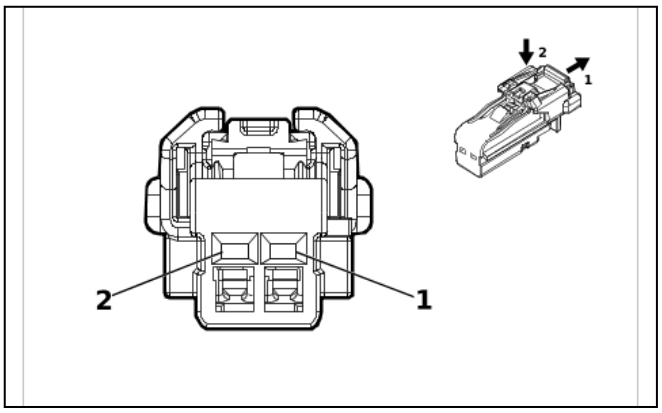
Terminal Part Information

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) WH / VT	(3) 5905	(3) Key Capture/Column Lock Shift Position Signal	(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)

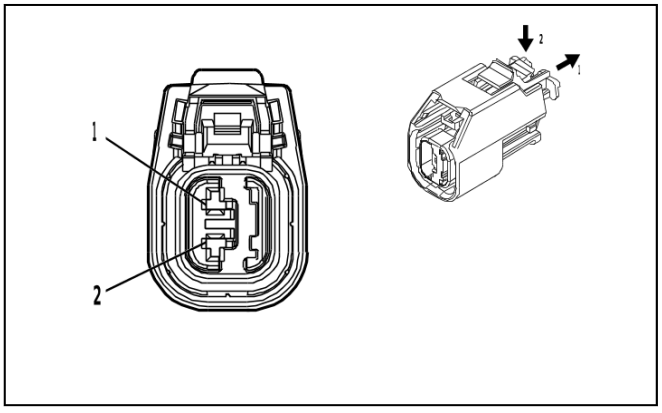
Terminal Part Information

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

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) 0.35	(2) BK / WH	(2) 851	(2) Signal Ground	(2) I	(2) —

R6A Terminating Resistor - High Speed Bus - (UKC / UKV)



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)

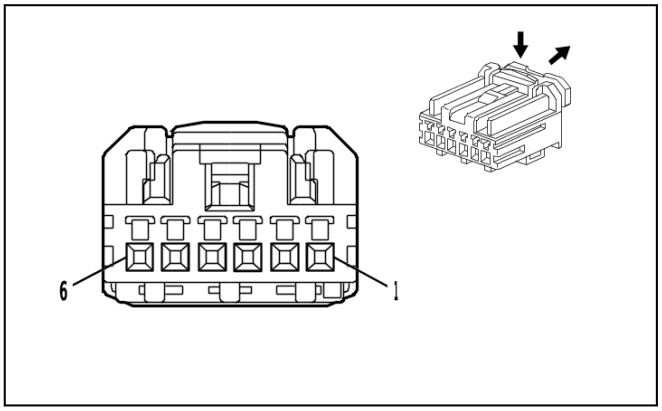
Terminal Part Information

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

R6A Terminating Resistor - High Speed Bus - (UKC / UKV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) WH	(1) 4100	(1) AUTOSAR CAN Bus [-] 4 Serial Data	(1) I	(1) —
(2) 2	(2) —	(2) BU / VT	(2) 4101	(2) AUTOSAR CAN Bus [+] 4 Serial Data	(2) I	(2) —

S13D Door Lock Switch - Driver (- A45)



4650256

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Left
- OEM Connector: 33315784
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 HCM Series(BK)

Terminal Part Information

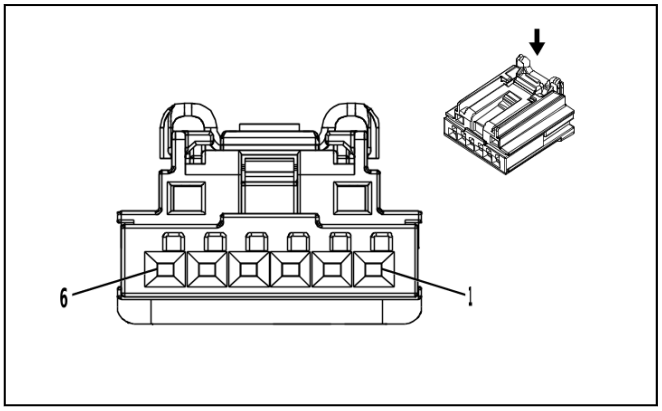
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S13D Door Lock Switch - Driver (- A45)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) BN / GY (1) YE	(1) 4784 (1) 6817	(1) Left Front Door LED Backlight Dimming Control (1) LED Backlight Dimming Control 1	(1) I (1) I	(1) ((GFF) + AU3+ (DLN/ DBG/ DWI/ DZC)) / (AU3+ (DLN/ DBG/ DWI/ DZC)) (1) AU3+ (DLN/ DBG/ DWI/ DZC) - GF2- GF5- GFF
(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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(4) 4	(4) 0.5	(4) BK	(4) 1550	(4) Ground	(4) I	(4) —
5 - 6	—	—	—	Not Occupied	—	—

S13D Door Lock Switch - Driver (A45)



4145138

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Left
- OEM Connector: 2035363-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

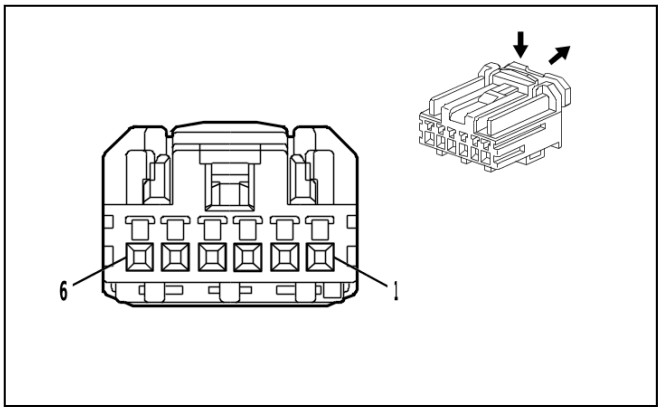
Terminal Part Information

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 (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	(5) 1550	(5) Ground	(5) I	(5) —
6	—	—	—	Not Occupied	—	—

S13P Door Lock Switch - Passenger (- A45)



4650256

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Right
- OEM Connector: 33315784
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 HCM Series(BK)

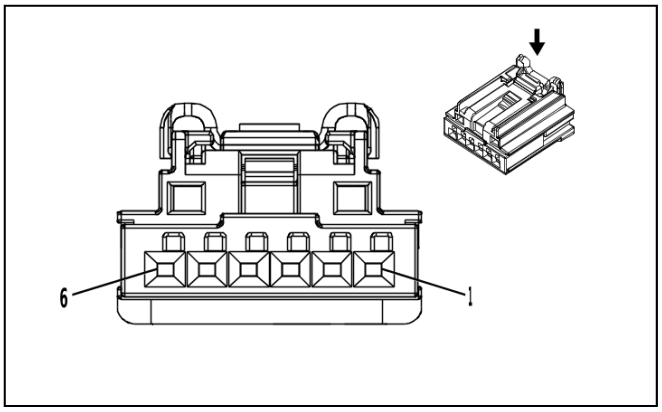
Terminal Part Information

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 (- A45)

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) ((GFF) + AU3+ (DLN/ DBG/ DWI/ DZC)) / (AU3+ (DLN/ DBG/ DWI/ DZC)) (1) AU3+ (DLN/ DBG/ DWI/ DZC) - GF2- GF5- GFF
(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 (A45)



4145138

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Right
- OEM Connector: 2035363-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

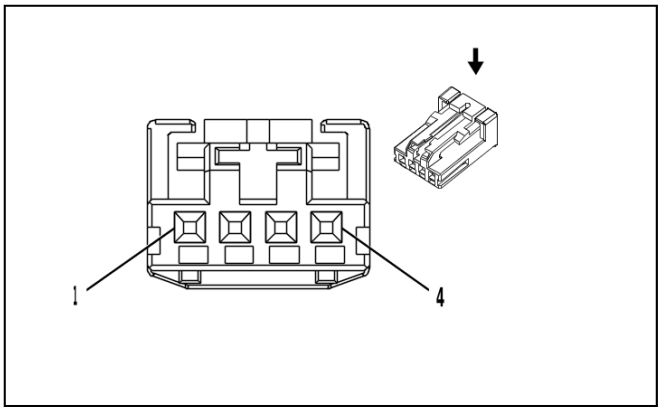
Terminal Part Information

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 (A45)

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	—	—

S27 Head-Up Display Switch



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)

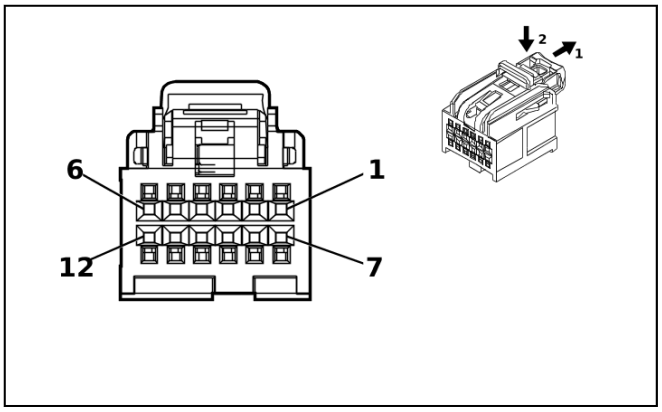
Terminal Part Information

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

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)

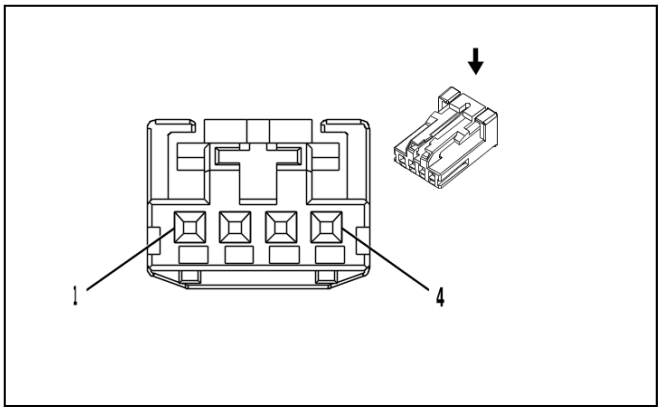
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300660	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) —

S32R Rear Seat Heater Switch



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)

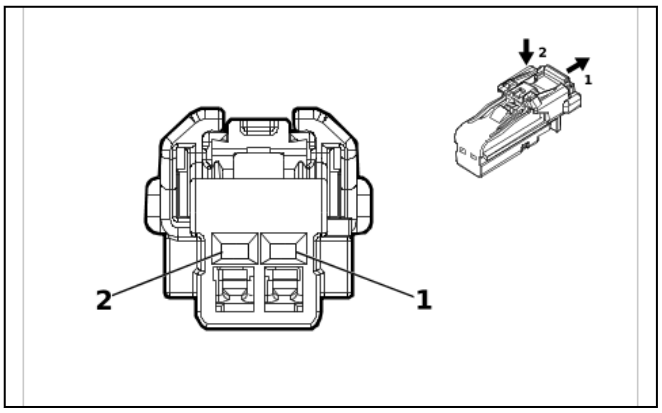
Terminal Part Information

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

S32R Rear Seat Heater Switch

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) —

S33 Steering Wheel Horn Contact (- K34)



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)

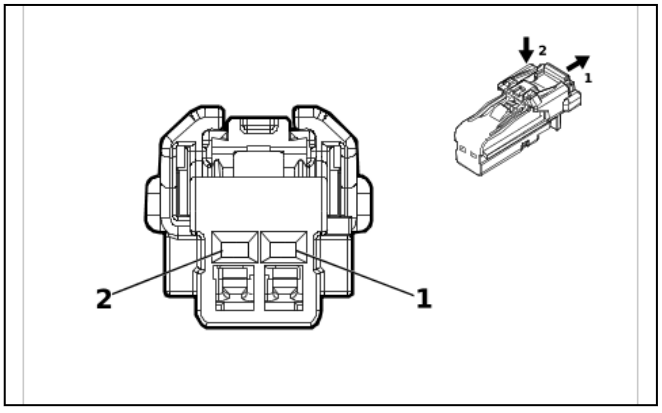
Terminal Part Information

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 (- K34)

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) —

S33 Steering Wheel Horn Contact (K34)



4115691

Connector Part Information
- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 6098-8431
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 Series(BK)

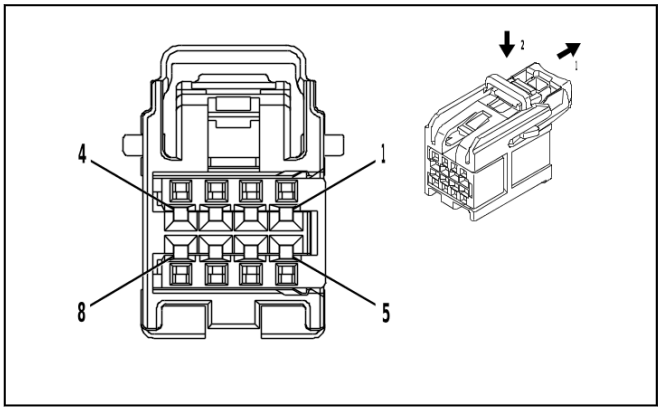
Terminal Part Information

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

S33 Steering Wheel Horn Contact (K34)

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) —

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

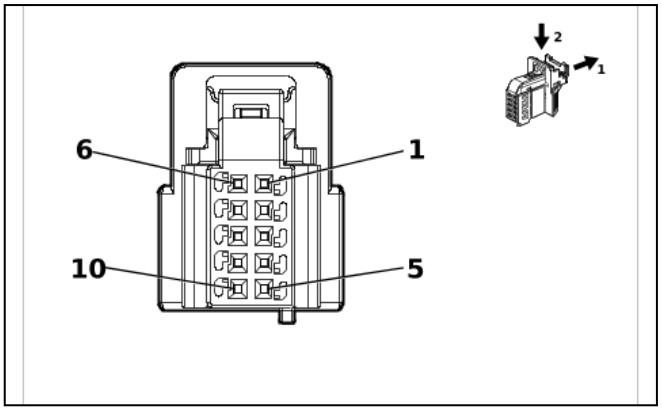
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

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



5838155

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Left
- OEM Connector: 2310000-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 0.64 MQS Series(BK)

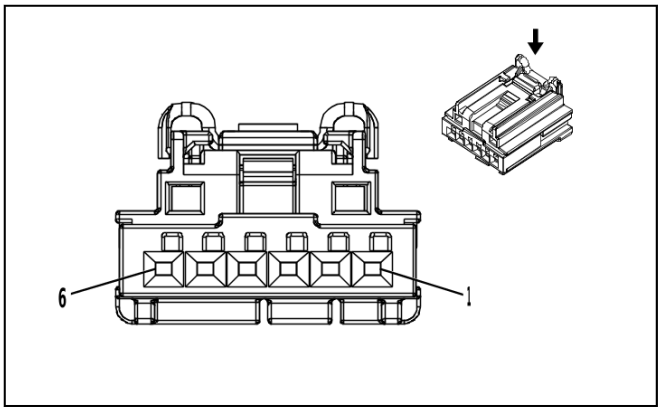
Terminal Part Information

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

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)



3960313

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 13583825
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

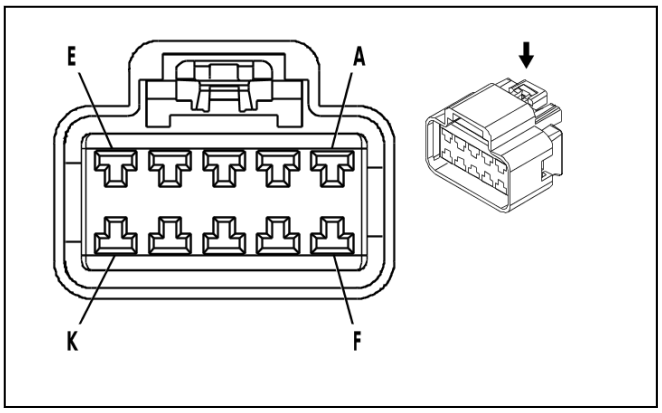
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	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) 0.5	(3) GN / GY	(3) 3758	(3) Driver Seat Adjuster Memory Module LIN Bus 2	(3) I	(3) —
(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) —

S64D Front Seat Adjuster Switch - Driver (- A45)



623046

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 35058909
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 280 GT Series(BK)

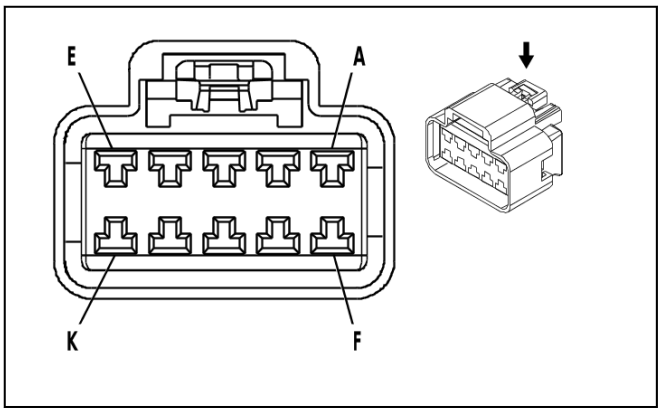
Terminal Part Information

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	—

S64P Front Seat Adjuster Switch - Passenger (- (AKE / AHH))



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)

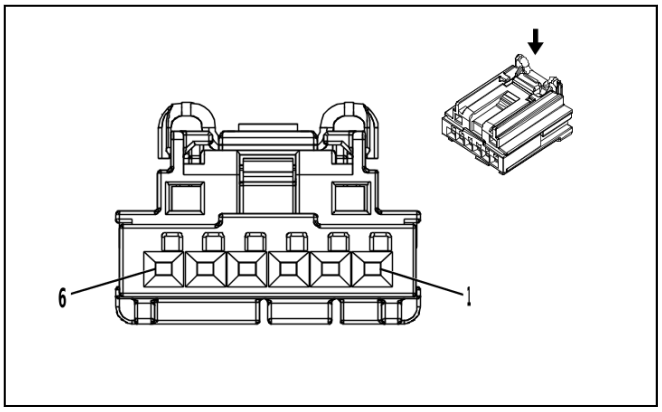
Terminal Part Information

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 (- (AKE / AHH))

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 (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)

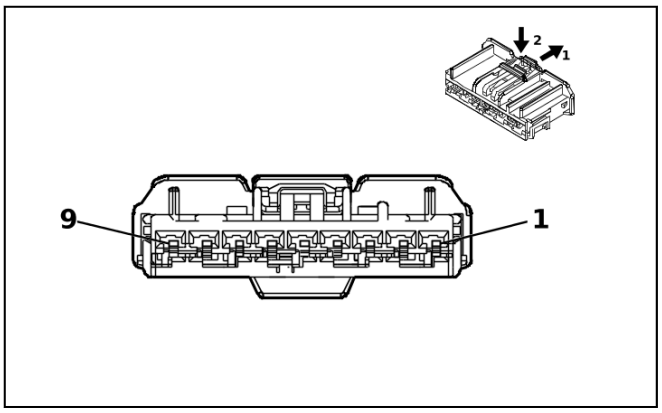
Terminal Part Information

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 (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 (A2X - AVK)



5204289

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 7289-6875-40
- Service Connector: Service by Harness - See Part Catalog
- Description: 9-Way F 2.8 YESC Series(GY)

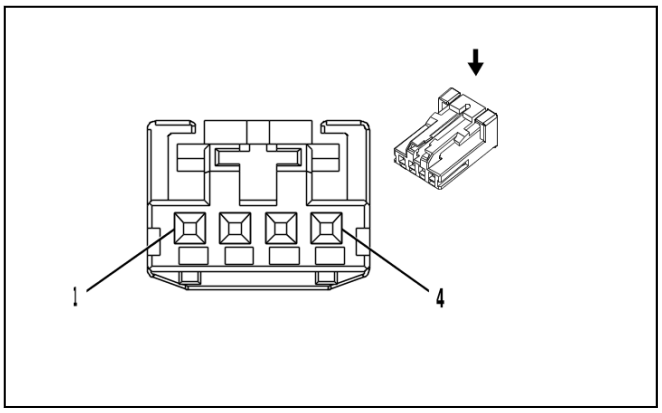
Terminal Part Information

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 (A2X - 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	—	—

S65D Front Seat Lumbar Switch - Driver (AVK)



2717162

Connector Part Information

- Harness Type: Front Seat Wiring Harness - Driver_A45
- OEM Connector: 1-936119-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

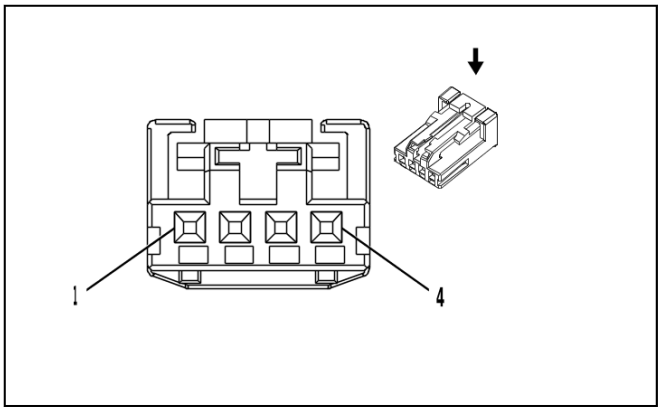
Terminal Part Information

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 (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) —

S65P Front Seat Lumbar Switch - Passenger (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)

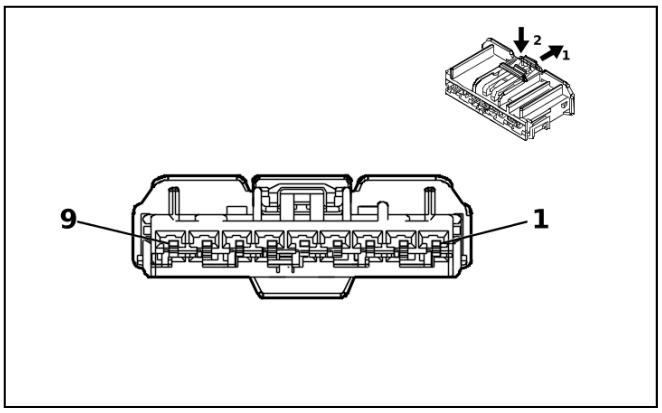
Terminal Part Information

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 (AVU)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
(3) 3	(3) 0.5 (3) 0.5	(3) YE / GN (3) GN / WH	(3) 1068 (3) 2816	(3) Passenger Seat Lumbar Support Switch Analog Signal (3) Passenger Seat Auxiliary Adjustment Switch Signal	(3) I (3) I	(3) - (AKE / AVU) (3) AKE & AVU
(4) 4	(4) 0.5 (4) 0.5	(4) BK / BU (4) BK / BN	(4) 2194 (4) 2815	(4) Passenger Seat Position Switch Low Reference (4) Auxiliary Passenger Seat Adjustment Switch Low Reference	(4) I (4) I	(4) - (AKE / AVU) (4) AKE & AVU

S65P Front Seat Lumbar Switch - Passenger (- 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)

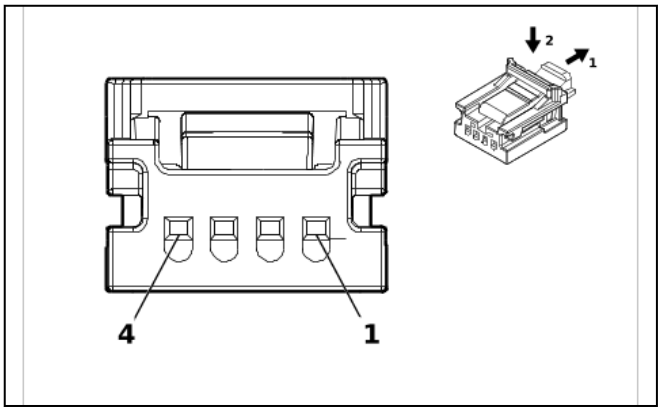
Terminal Part Information

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 (- 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



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)

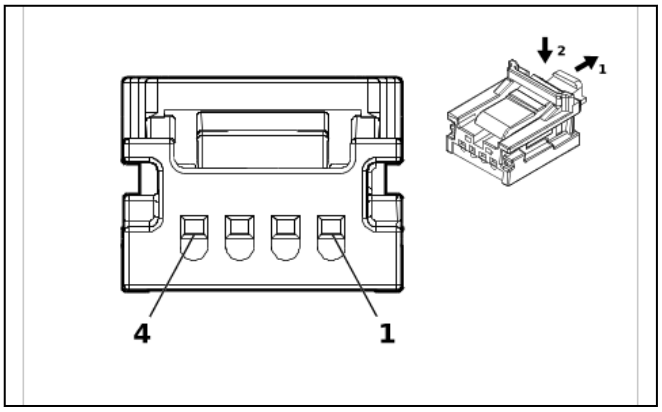
Terminal Part Information

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

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



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)

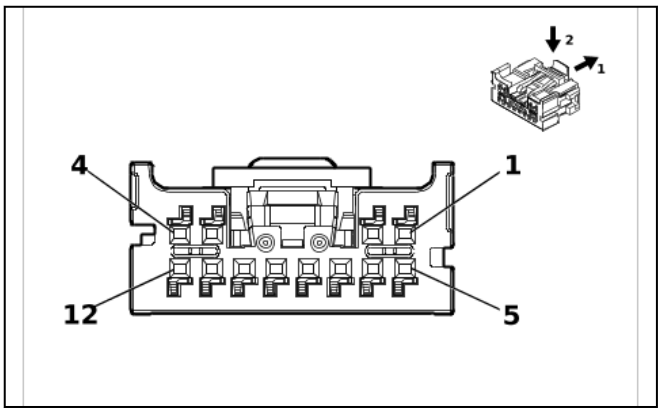
Terminal Part Information

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

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 (- K34)



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)

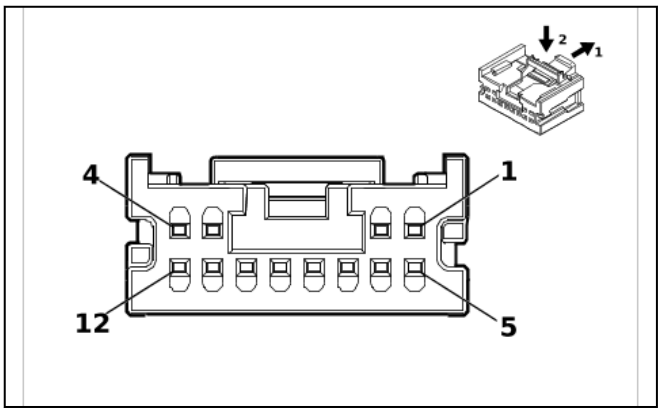
Terminal Part Information

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 (- K34)

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) GY / OG	(7) 5884	(7) Steering Wheel Heating Switch LED Control	(7) I	(7) —
(8) 8	(8) 0.35	(8) GN	(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 (K34)



4539608

Connector Part Information

- Harness Type: Steering Wheel Horn Switch Wiring Harness
- OEM Connector: 34824-5125
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way F Mini 50 Series(GY)

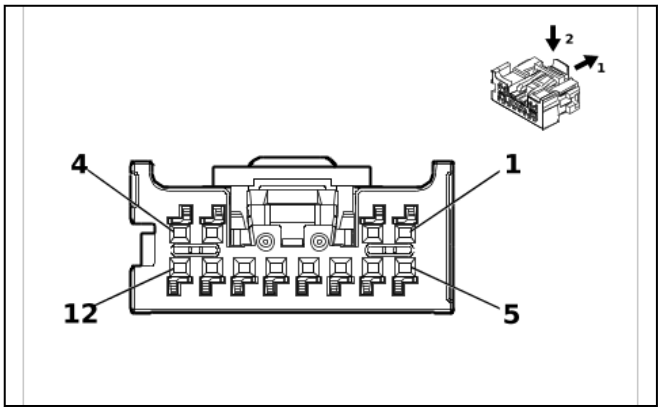
Terminal Part Information

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 (K34)

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) PK	(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 - 9	—	—	—	Not Occupied	—	—
(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)

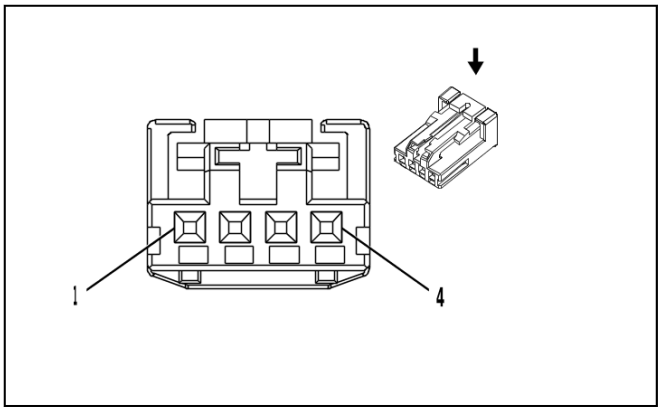
Terminal Part Information

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) 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) BK / BU	(3) 3894	(3) Instrument Panel Cluster Control Module LIN Bus 1	(3) I	(3) —
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) BU / RD	(7) 4313	(7) Radio Favorite Forward Switch Signal	(7) I	(7) —
(8) 8	(8) 0.35	(8) BU / RD	(8) 4312	(8) Radio Favorite Back 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) OG / RD	(10) 4315	(10) Radio Volume Up Switch Signal	(10) I	(10) —
(11) 11	(11) 0.35	(11) GN / RD	(11) 4314	(11) Radio Volume Down Switch Signal	(11) I	(11) —
12	—	—	—	Not Occupied	—	—

S76 Trailer Brake Control Switch (- D07)



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)

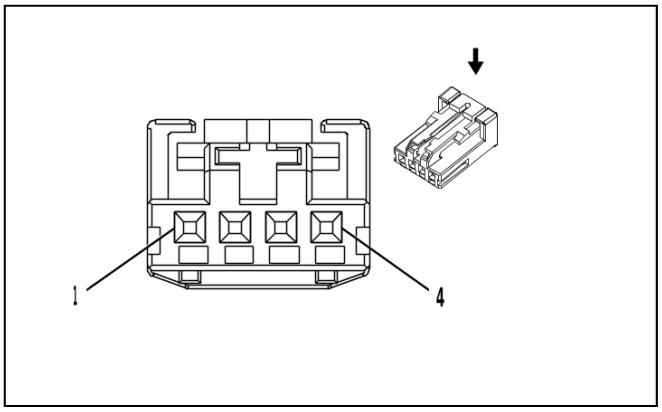
Terminal Part Information

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 (- D07)

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 (D07)



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)

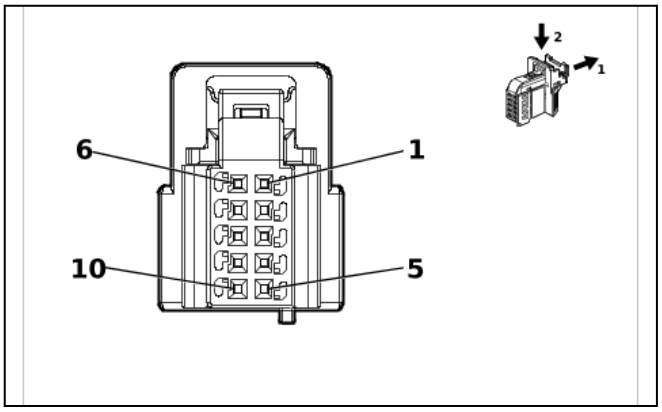
Terminal Part Information

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

S76 Trailer Brake Control Switch (D07)

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) 1350	(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)

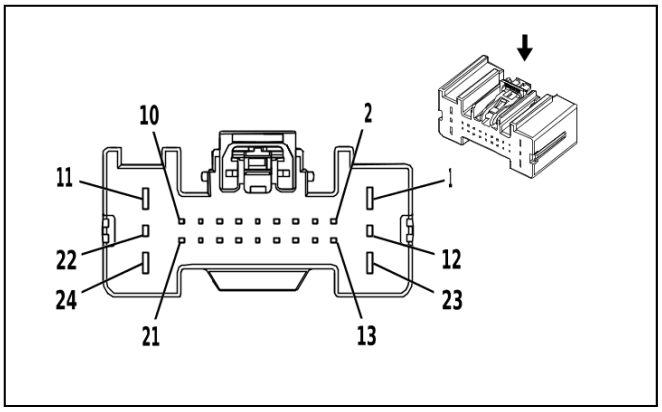
Terminal Part Information

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) 0.35	(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) 0.35	(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 - Left
- 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

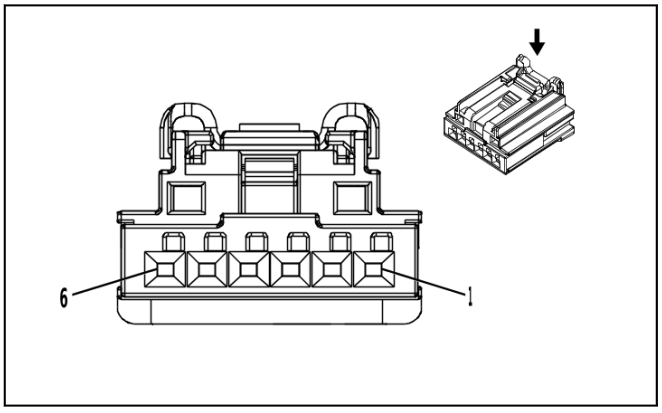
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required
III	Not required	J-35616-64B (L-BU)	No Tool Required

S79D Front Side Door Window Control Switch - Driver X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) WH / BN (1) BN	(1) 2764 (1) 10201	(1) Window Switch Left Front Down Signal (1) Left Front Mirror Motor Extend Control	(1) II (1) II	(1) AXG (1) DZC
(2) 2	(2) 0.5	(2) GN	(2) 2766	(2) Power Window Switch Left Front Express Signal	(2) III	(2) —
(3) 3	(3) 0.5	(3) BN / YE	(3) 2771	(3) Left Front Door Lock Switch Lock Signal	(3) III	(3) —
(4) 4	(4) 0.5	(4) BN / WH	(4) 2772	(4) Left Front Door Lock Switch Unlock Signal	(4) III	(4) —
(5) 5	(5) 0.5	(5) GY / VT	(5) 2767	(5) LED Ambient Lighting Control Left Front Door	(5) III	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.5	(7) BN / GY	(7) 4784	(7) Left Front Door LED Backlight Dimming Control	(7) III	(7) —
(8) 8	(8) 0.35	(8) GY / YE	(8) 1760	(8) Left Side Object Detection LED Control	(8) III	(8) —
(9) 9	(9) 0.5	(9) WH / GN	(9) 2786	(9) Left Front Mirror Motor Fold In Control	(9) III	(9) —
(10) 10	(10) 0.5	(10) YE / BN	(10) 2789	(10) Left Front Mirror Motor Common Control	(10) III	(10) —
(11) 11	(11) 0.5	(11) BK	(11) 1550	(11) Ground	(11) II	(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) 13	(13) 0.5	(13) WH / BN	(13) 2764	(13) Window Switch Left Front Down Signal	(13) III	(13) —
14 - 15	—	—	—	Not Occupied	—	—
(16) 16	(16) 0.5	(16) GY / GN	(16) 2763	(16) Window Switch Left Front Up Signal	(16) III	(16) —
(17) 17	(17) 0.5	(17) WH / VT	(17) 4258	(17) Left Front Door Lock Status Signal	(17) III	(17) —
(18) 18	(18) 0.5	(18) VT / BU	(18) 2788	(18) Left Front Mirror Motor Up [+] Down [-] Control	(18) III	(18) —
(19) 19	(19) 0.5	(19) BN / BK	(19) 2790	(19) Left Front Mirror Motor Right [+] Left [-] Control	(19) III	(19) —
20	—	—	—	Not Occupied	—	—
(21) 21	(21) 0.5	(21) GN / YE	(21) 6134	(21) Body Control Module LIN Bus 3	(21) III	(21) —
(22) 22	(22) 0.5	(22) WH	(22) 606	(22) Left Outside Rearview Mirror Heater Control	(22) I	(22) —
(23) 23	(23) 0.5 (23) 0.5	(23) GY / GN (23) WH / BK	(23) 2763 (23) 10202	(23) Window Switch Left Front Up Signal (23) Left Front Mirror Motor Retract Control	(23) II (23) II	(23) AXG (23) DZC
(24) 24	(24) 0.5	(24) RD / BU	(24) 1240	(24) Battery Positive Voltage	(24) II	(24) —

S79D Front Side Door Window Control Switch - Driver X2



4145138

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Left
- OEM Connector: 2035363-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

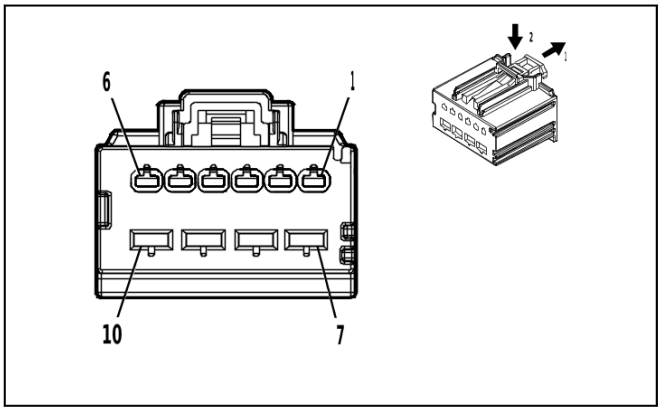
Terminal Part Information

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

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
- 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

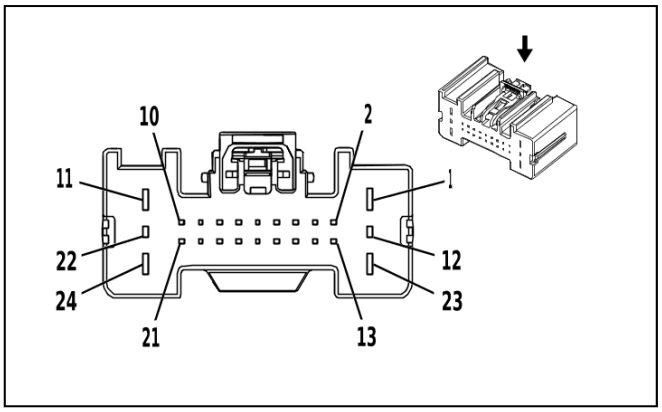
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

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 - Right
- 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

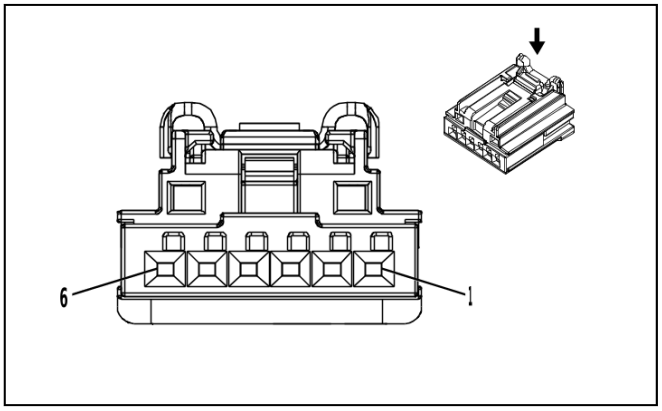
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required
III	Not required	J-35616-64B (L-BU)	No Tool Required

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) BN	(5) 5295	(5) Window Switch Right Front Down Signal	(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) VT	(11) 666 (11) 10204	(11) Right Front Window Motor Up Control (11) Right Front Mirror Motor Retract Control	(11) II (11) II	(11) AED+ AXG (11) DZC
(12) 12	(12) 0.5	(12) BN / VT	(12) 607	(12) Right Outside Rearview Mirror Heater Control	(12) I	(12) —
(13) 13	(13) 0.5	(13) GN	(13) 1184	(13) Window Switch Right Front Up Signal	(13) III	(13) —
(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) AED+ AXG
(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 / GN	(24) 667 (24) 10203	(24) Right Front Window Motor Down Control (24) Right Front Mirror Motor Extend Control	(24) II (24) II	(24) AED+ AXG (24) DZC

S79P Front Side Door Window Switch - Passenger X2



4145138

Connector Part Information

- Harness Type: Front Side Door Door Lock Door Wiring Harness - Right
- OEM Connector: 2035363-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 0.64 Generation Y Series(BK)

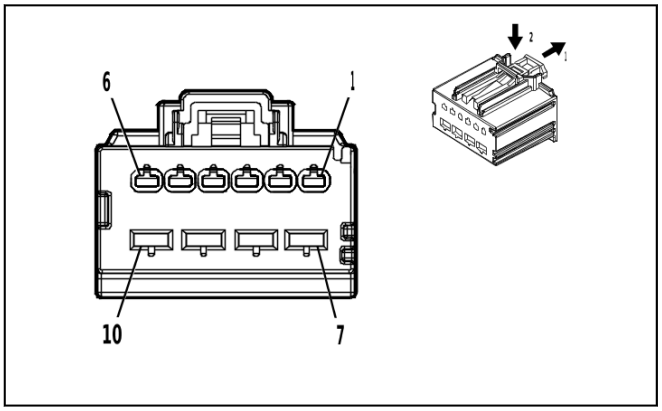
Terminal Part Information

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

S79P Front Side Door Window Switch - Passenger X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
(2) 2	(2) 0.5	(2) WH / BN	(2) 2768	(2) LED Ambient Lighting Control Right Front Door	(2) I	(2) —
3 - 6	—	—	—	Not Occupied	—	—

S79RR Rear Side Door Window Switch - Right



5035058

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Right
- 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

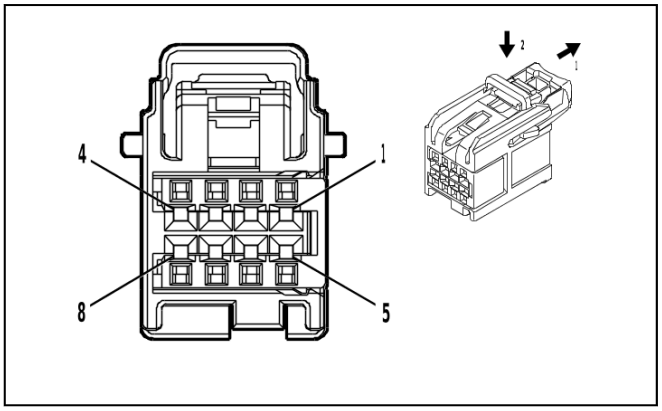
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

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) GN	(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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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)

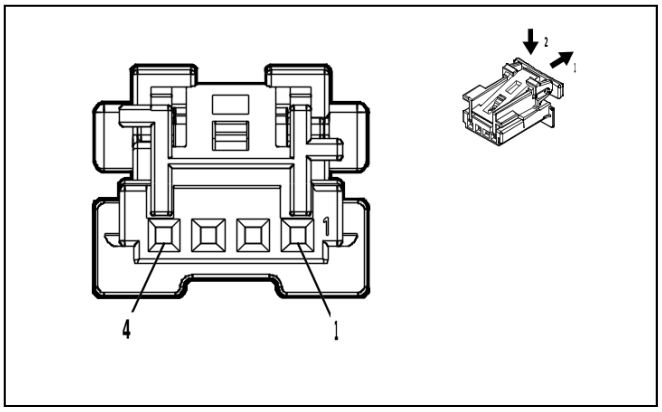
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-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) —
(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)

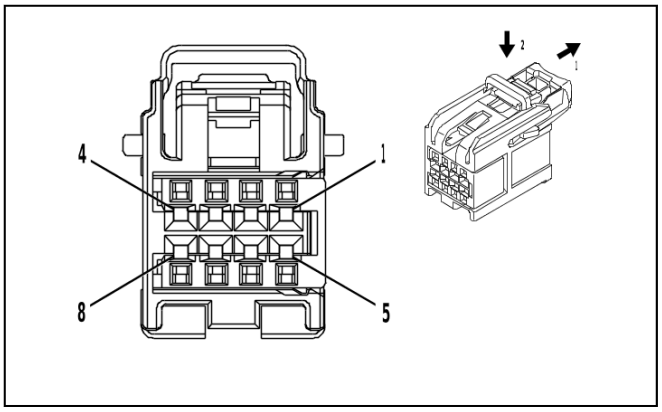
Terminal Part Information

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) —

S126 Ride Control 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)

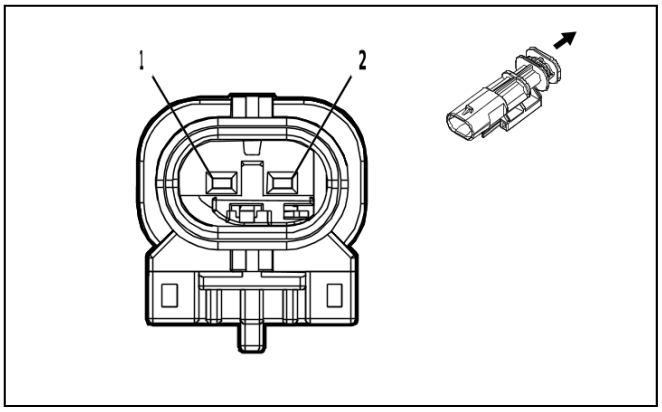
Terminal Part Information

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

S126 Ride Control Switch

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 / GY	(3) 2204	(3) Enhanced Driver Mode 1 Switch 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	—	—

S158 Liftgate Exterior Release Switch - Auxiliary Endgate



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)

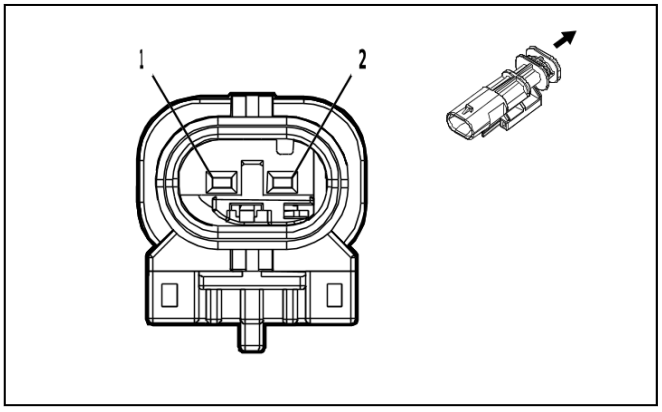
Terminal Part Information

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

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



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)

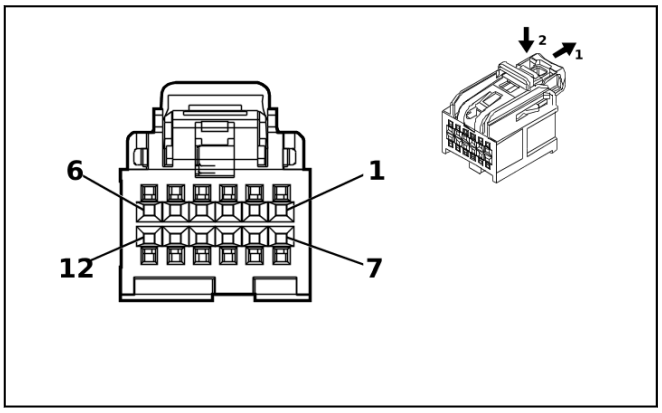
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5 (1) 0.5	(1) YE (1) GY	(1) 1144 (1) 7292	(1) Endgate Release Switch Discrete Signal Exterior (1) Major Endgate Release Switch Signal Exterior	(1) I (1) I	(1) QK1+ QT6 (1) QT5
(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

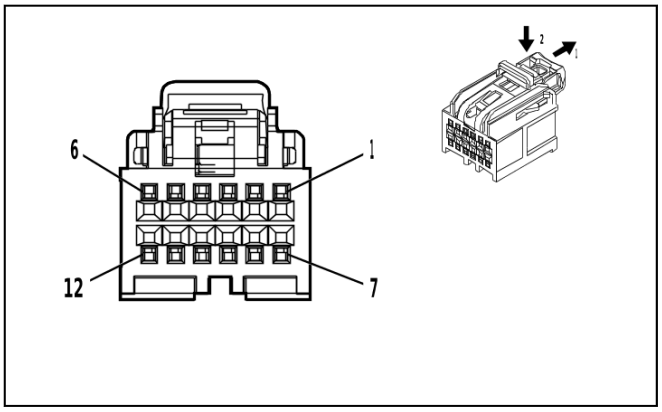
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300660	J-35616-64B (L-BU)	J-38125-215A

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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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) YE / BU	(11) 2912	(11) Driver Mode 2 Indicator Control	(11) I	(11) —
(12) 12	(12) 0.35	(12) GY	(12) 4989	(12) Driver Mode 2 Switch Signal	(12) I	(12) —

S171R Instrument Panel Center Accessory Function Switch - Right



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

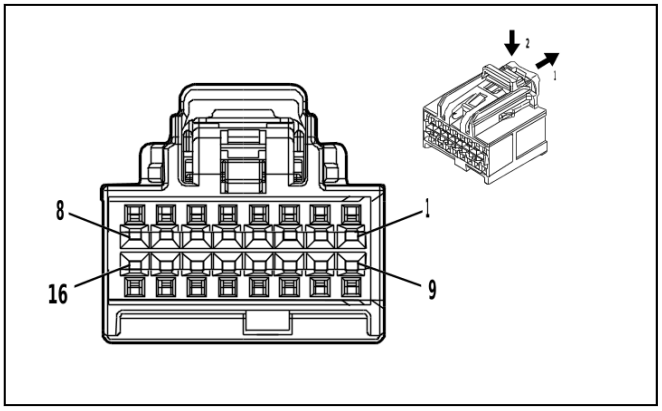
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300660	J-35616-64B (L-BU)	J-38125-215A

S171R Instrument Panel Center Accessory Function Switch - Right

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) 0.35	(4) YE / GN (4) VT / BK	(4) 7122 (4) 339	(4) Axle Differential Lock Switch Signal (4) Run/Crank Ignition 1 Voltage	(4) I (4) I	(4) G94 (4) PTO

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(5) 5	(5) 0.35 (5) 0.35	(5) YE (5) BN / GN	(5) 7115 (5) 4311	(5) Rear Axle Differential Lock Indicator Control (5) Power Take-Off Enable Cabin Switch Normally Closed Signal	(5) I (5) I	(5) G94 (5) PTO
6	—	—	—	Not Occupied	—	—
(7) 7	(7) 0.35	(7) GN / WH	(7) 488	(7) Power Take-Off Control Switch Signal	(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) 0.35	(10) WH	(10) 6816	(10) Indicator Dimming Control	(10) I	(10) —
11	—	—	—	Not Occupied	—	—
(12) 12	(12) 0.35	(12) BU / GY	(12) 4990	(12) Driver Mode 1 Switch Signal	(12) I	(12) —

S172 Auxiliary Multifunction Switch



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

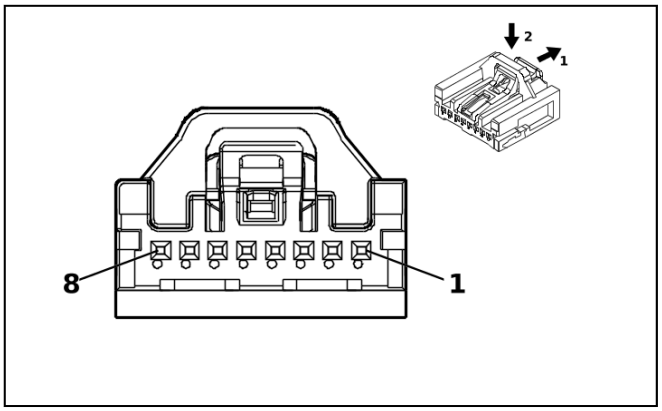
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

S172 Auxiliary Multifunction Switch

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	—	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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) 1050	(12) 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

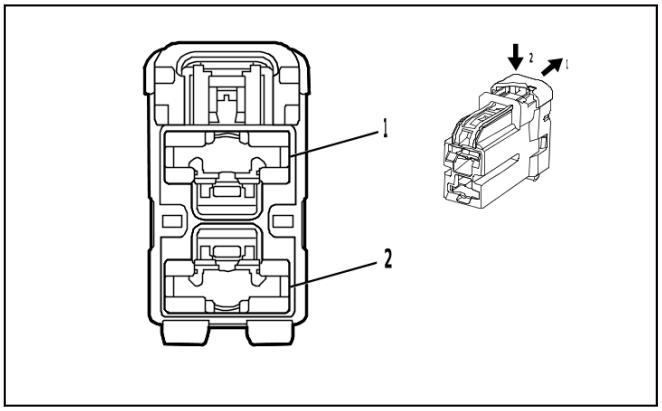
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	EL-35616-58 (BK)	No Tool Required

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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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



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)

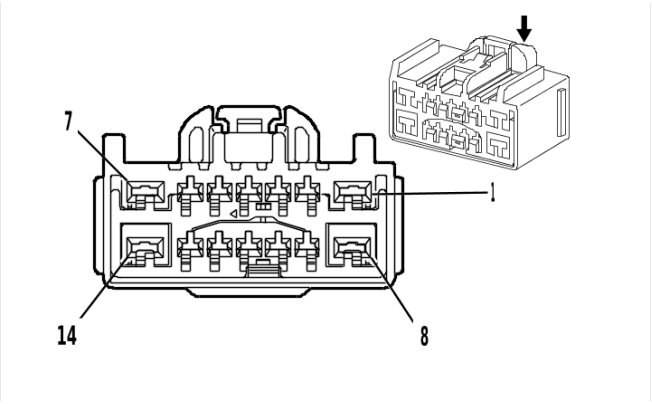
Terminal Part Information

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

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)

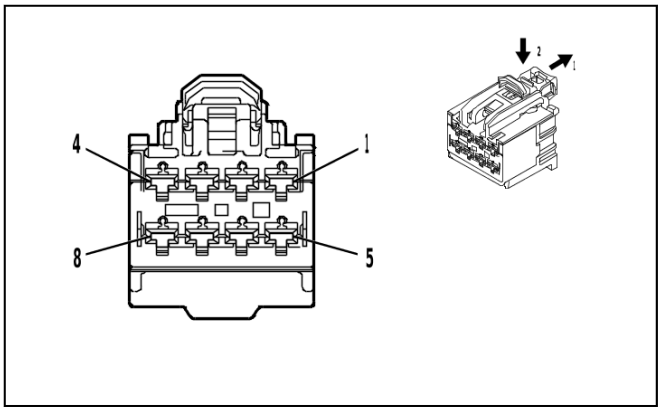
Terminal Part Information

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) 0.35	(13) BARE	(13) 10119	(13) AC Outlet 2 Low Reference	(13) I	(13) —
(14) 14	(14) 0.75	(14) RD / WH	(14) 10121	(14) AC Outlet 2 Phase B Control	(14) II	(14) —

T3 Audio Amplifier X1



4875738

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 33223792
- Service Connector: 19369366
- Description: 8-Way F 2.8 OCS Series(BK)

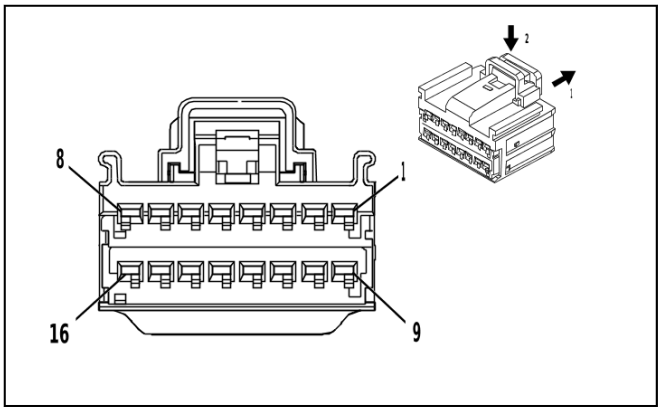
Terminal Part Information

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

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



4332214

Connector Part Information

- Harness Type: Body Wiring Harness
- OEM Connector: 15512506
- Service Connector: 13591061
- Description: 16-Way F 1.5 OCS Series(BK)

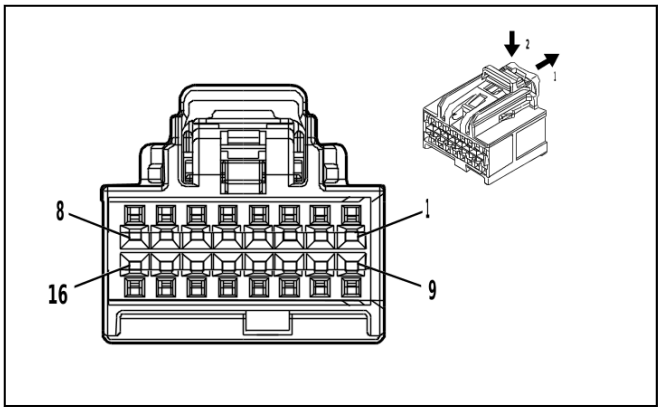
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	84757974	J-35616-2A (GY)	J-38125-215A

T3 Audio Amplifier X2

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) 0.75	(10) WH / YE	(10) 1853	(10) Right Front Midrange Speaker [+] Control	(10) I	(10) —
(11) 11	(11) 0.75	(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) 0.75	(15) BU / YE	(15) 1960	(15) Front Center Speaker [-] Control	(15) I	(15) —
16	—	—	—	Not Occupied	—	—

T3 Audio Amplifier X3



4873243

Connector Part Information

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

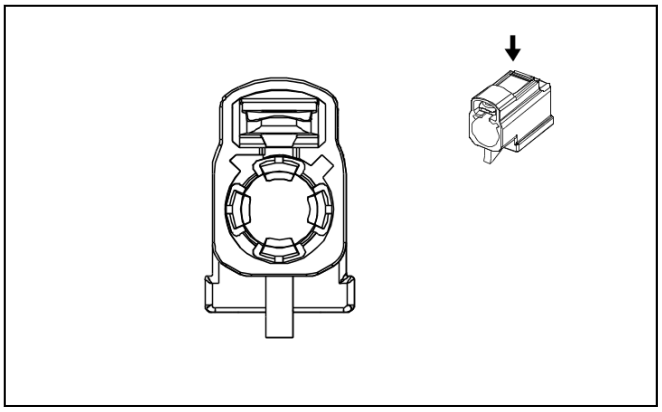
Terminal Part Information

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

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 / BN	(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)

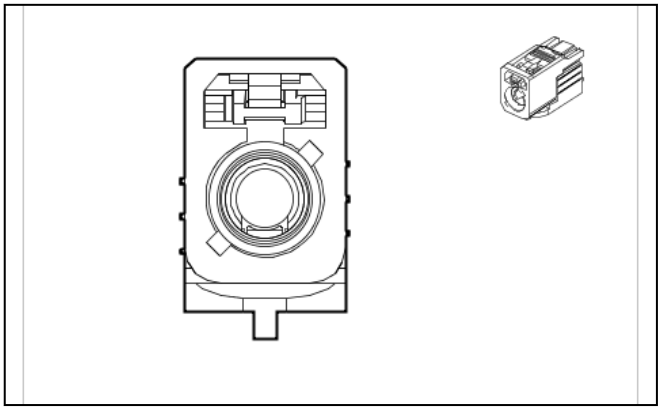
Terminal Part Information

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 (- UE1)



6267120

Connector Part Information
- Harness Type: Instrument Panel Wiring Harness COAX
- OEM Connector: 33351013
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F Coax Type(BU)

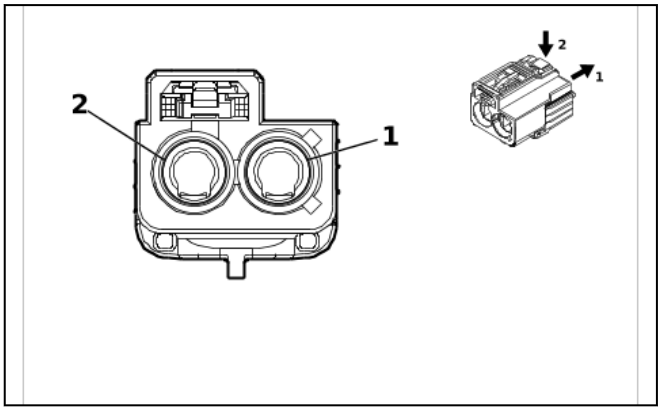
Terminal Part Information

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

T4P High Frequency Antenna X1 (- UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
—	—	Coax Cable	—	(GPS only) Coaxial Antenna GPS Signal	I	—

T4P High Frequency Antenna X1 (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)

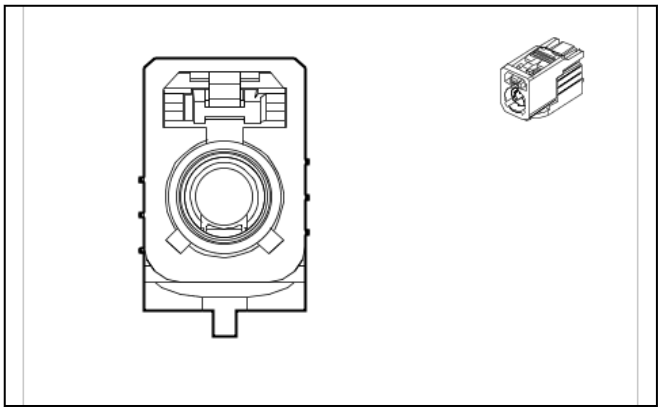
Terminal Part Information

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 (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) 0.1	(2) BARE	(2) 6449	(2) Coaxial Antenna Cell Phone Signal	(2) I	(2) —

T4P High Frequency Antenna X2



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)

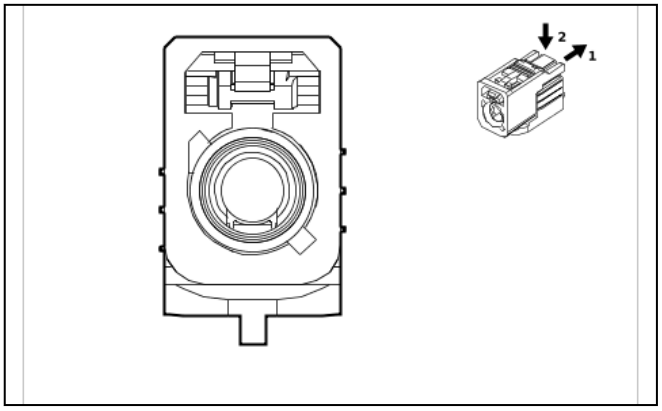
Terminal Part Information

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

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)

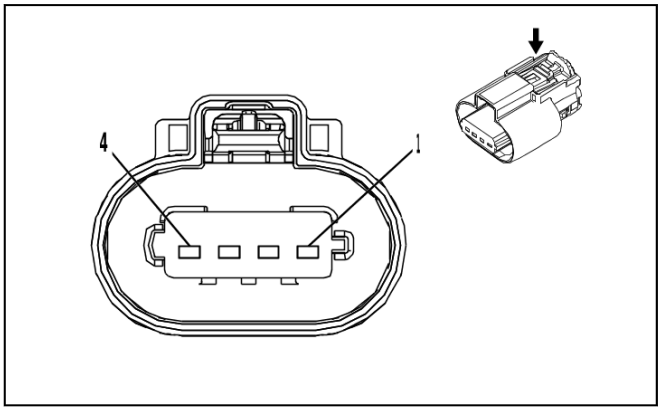
Terminal Part Information

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



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)

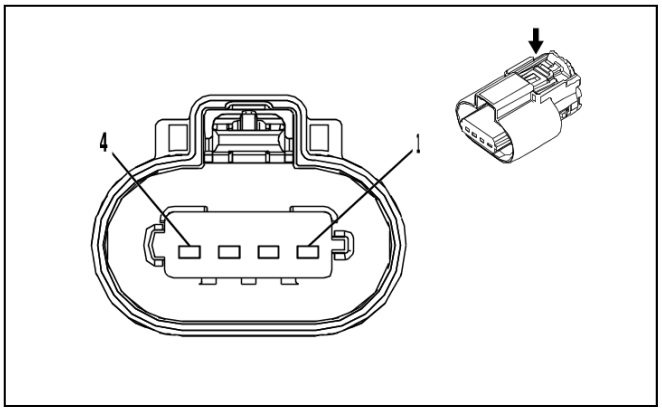
Terminal Part Information

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

T8A Ignition Coil 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 6150	(1) Engine Odd Bank Ground	(1) I	(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) 0.75	(4) VT / BU	(4) 5291	(4) Powertrain Main Relay Fused Supply Voltage 2	(4) I	(4) —

T8B Ignition Coil 2



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)

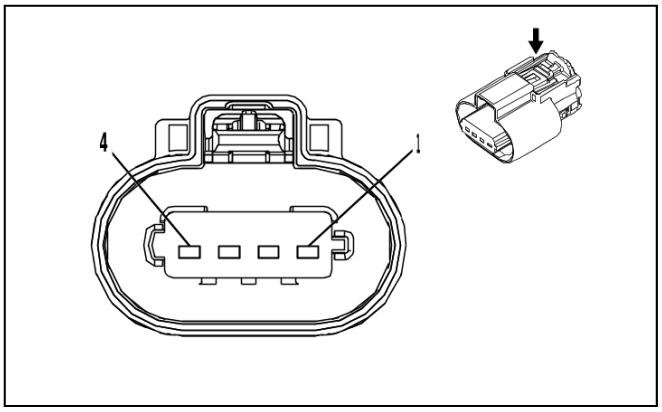
Terminal Part Information

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

T8B Ignition Coil 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 6450	(1) Engine Even Bank Ground	(1) I	(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) 0.75	(4) VT / BU	(4) 5292	(4) Powertrain Main Relay Fused Supply Voltage 3	(4) I	(4) —

T8C Ignition Coil 3



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)

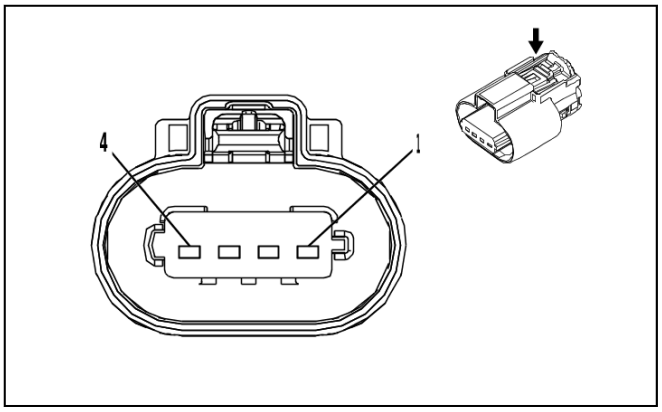
Terminal Part Information

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

T8C Ignition Coil 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 6150	(1) Engine Odd Bank Ground	(1) I	(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) 0.75	(4) VT / BU	(4) 5291	(4) Powertrain Main Relay Fused Supply Voltage 2	(4) I	(4) —

T8D Ignition Coil 4



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)

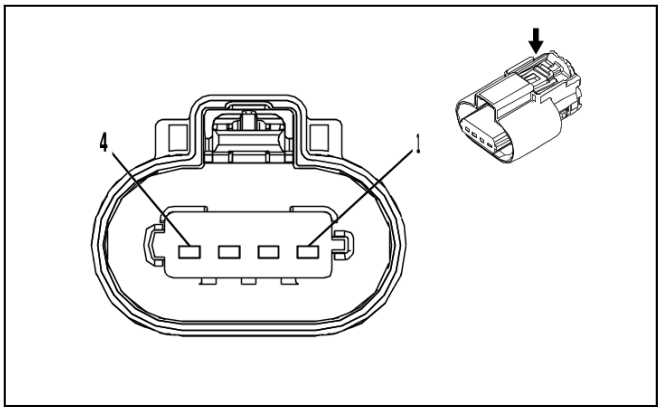
Terminal Part Information

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

T8D Ignition Coil 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 6450	(1) Engine Even Bank Ground	(1) I	(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) 0.75	(4) VT / BU	(4) 5292	(4) Powertrain Main Relay Fused Supply Voltage 3	(4) I	(4) —

T8E Ignition Coil 5



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)

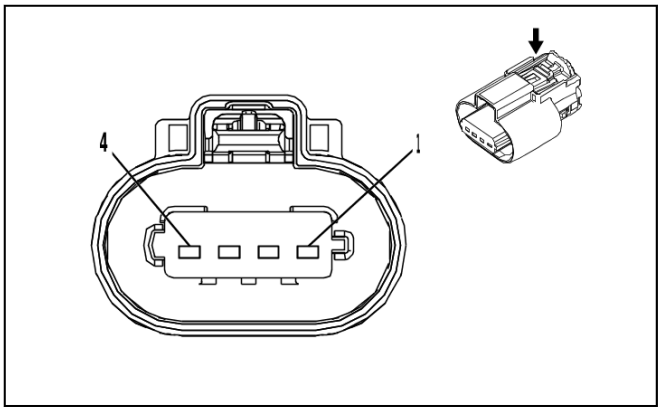
Terminal Part Information

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

T8E Ignition Coil 5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 6150	(1) Engine Odd Bank Ground	(1) I	(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) 0.75	(4) VT / BU	(4) 5291	(4) Powertrain Main Relay Fused Supply Voltage 2	(4) I	(4) —

T8F Ignition Coil 6



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)

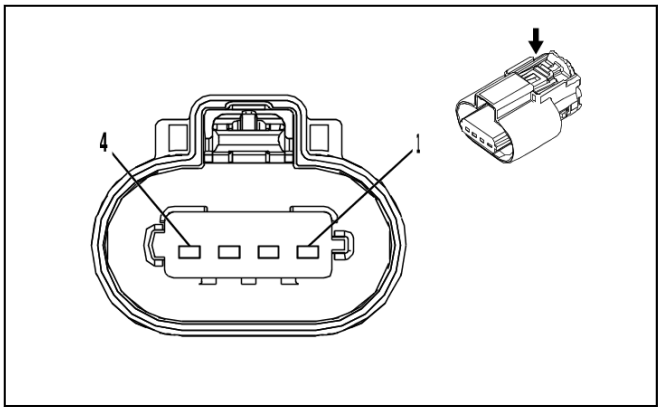
Terminal Part Information

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

T8F Ignition Coil 6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 6450	(1) Engine Even Bank Ground	(1) I	(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) 0.75	(4) VT / BU	(4) 5292	(4) Powertrain Main Relay Fused Supply Voltage 3	(4) I	(4) —

T8G Ignition Coil 7



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)

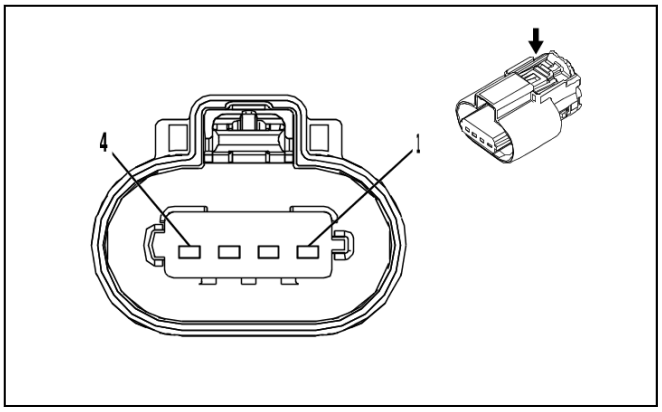
Terminal Part Information

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

T8G Ignition Coil 7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 6150	(1) Engine Odd Bank Ground	(1) I	(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) 0.75	(4) VT / BU	(4) 5291	(4) Powertrain Main Relay Fused Supply Voltage 2	(4) I	(4) —

T8H Ignition Coil 8



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)

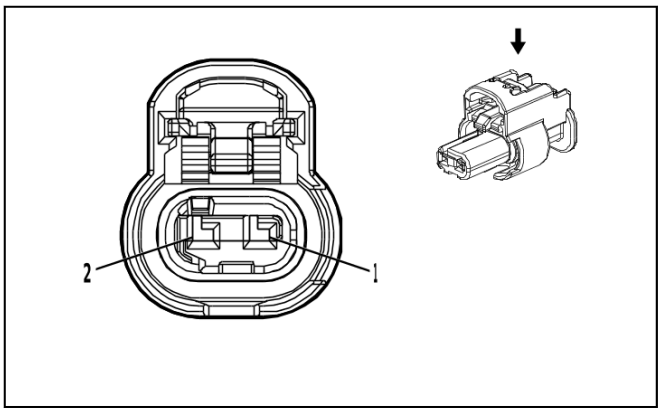
Terminal Part Information

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

T8H Ignition Coil 8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 6450	(1) Engine Even Bank Ground	(1) I	(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) 0.75	(4) VT / BU	(4) 5292	(4) Powertrain Main Relay Fused Supply Voltage 3	(4) I	(4) —

T10G Low Frequency Rear Bumper Antenna



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)

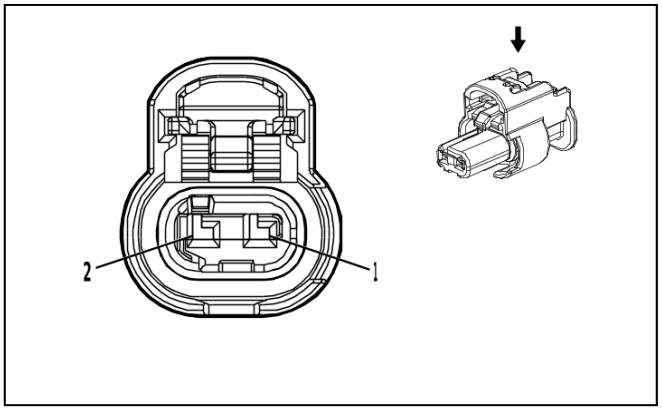
Terminal Part Information

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

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



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)

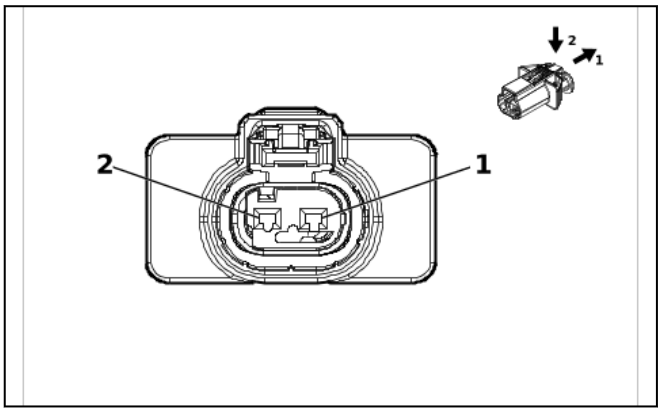
Terminal Part Information

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

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) —

T10KA Low Frequency Console Number 2 Antenna



6168540

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 35242149
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MLK Series, Sealed(BK)

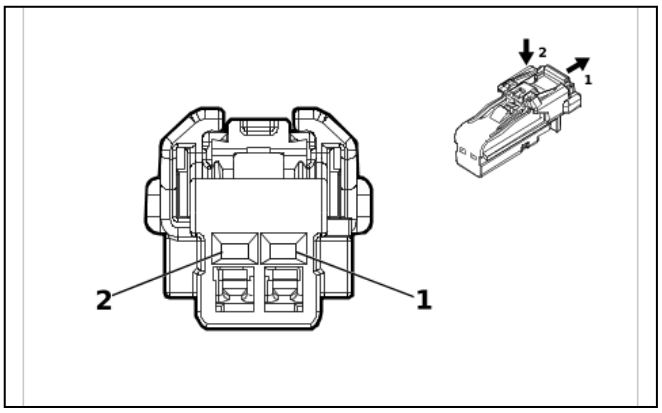
Terminal Part Information

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

T10KA Low Frequency Console Number 2 Antenna

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) —

T10UA Low Frequency Console Antenna (AZ3)



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)

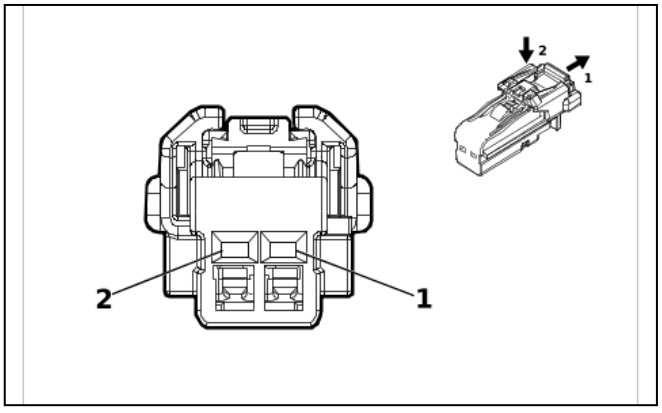
Terminal Part Information

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 (AZ3)

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) —
(2) 2	(2) 0.5	(2) WH / GY	(2) 4997	(2) Immobilizer Antenna Low Signal	(2) I	(2) —

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)

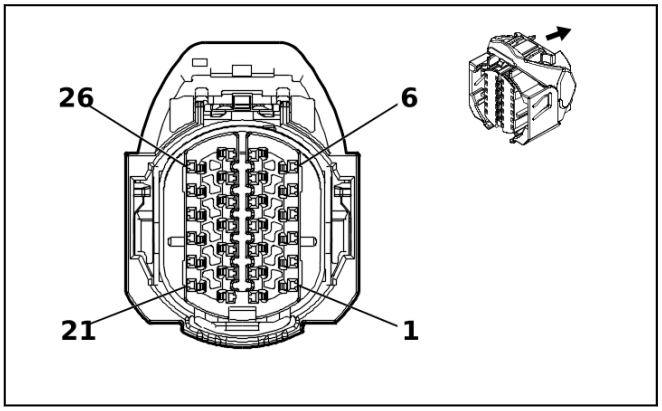
Terminal Part Information

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

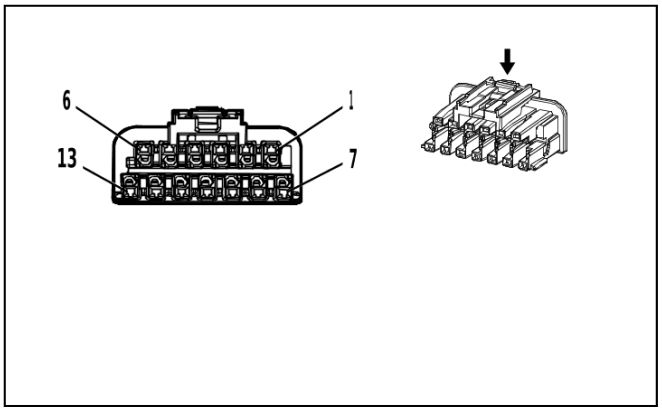
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19331733	J-35616-12 (BU)	J-38125-553

T12 Automatic Transmission X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / YE	(1) 6353	(1) Input Speed Signal	(1) I	(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) —
(5) 5	(5) 0.5	(5) BU / WH	(5) 3338	(5) Transmission Internal Mode Switch Mode Control X	(5) I	(5) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(6) 6	(6) 0.5	(6) GN / YE	(6) 3337	(6) Transmission Internal Mode Switch Mode Control Y	(6) I	(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	—	—	—	Not Occupied	—	—
(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 / RD	(12) 480	(12) Engine Control Vehicle Sensors 5 Volt Reference 1	(12) I	(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 - 18	—	—	—	Not Occupied	—	—
(19) 19	(19) 0.5	(19) GN / BK	(19) 7819	(19) Default Disable Solenoid Control	(19) I	(19) —
(20) 20	(20) 0.5	(20) BK / GY	(20) 626	(20) Engine Control Vehicle Sensors Low Reference 1	(20) I	(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



4757907

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 2203990-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 13-Way F 1.2 MCON Series(BN)

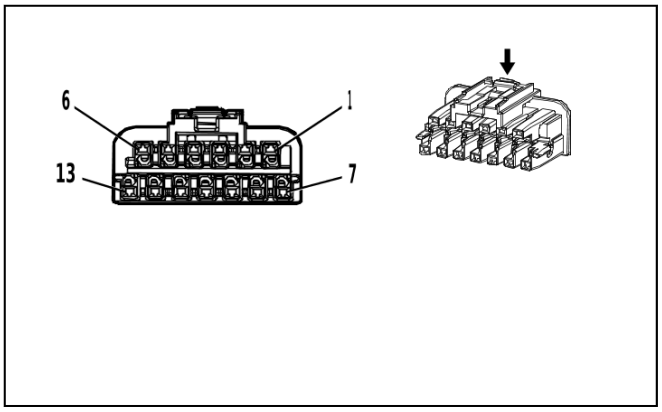
Terminal Part Information

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

T12 Automatic Transmission X2

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) 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 / 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	—	—	—	Not Occupied	—	—
(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



4757999

Connector Part Information

- Harness Type: Automatic Transmission Wiring Harness
- OEM Connector: 2203990-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 13-Way F 1.2 MCON Series(BN)

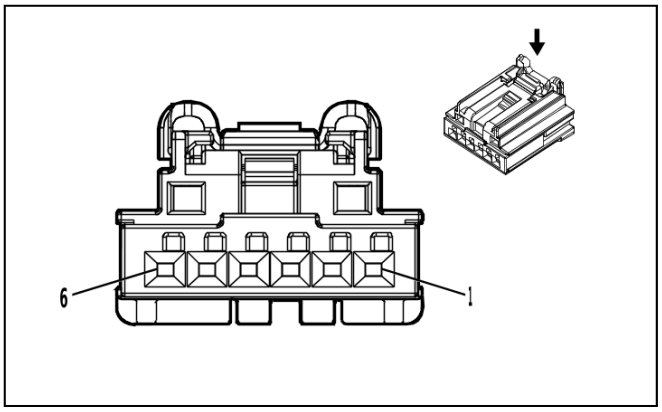
Terminal Part Information

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

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) —
(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 - 11	—	—	—	Not Occupied	—	—
(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) —

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)

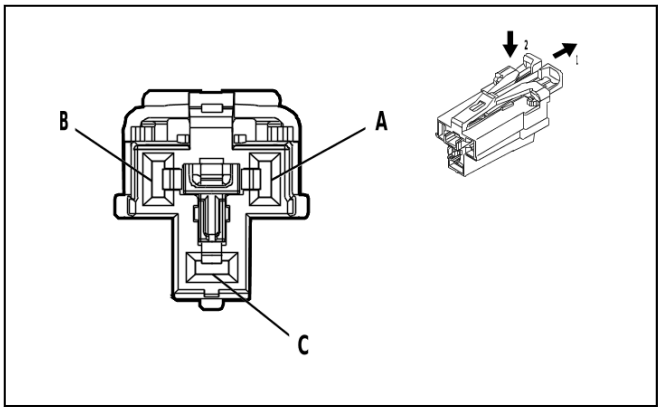
Terminal Part Information

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



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)

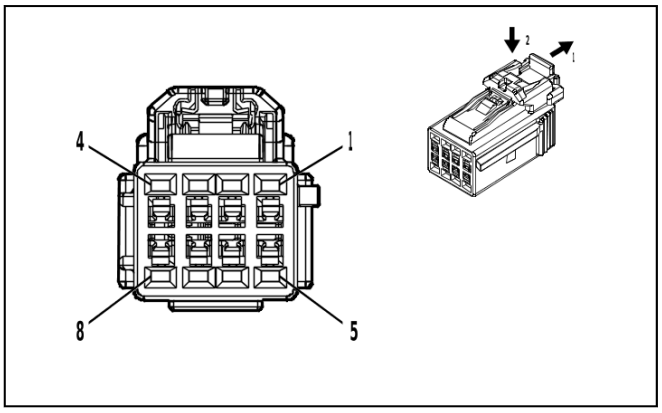
Terminal Part Information

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

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)

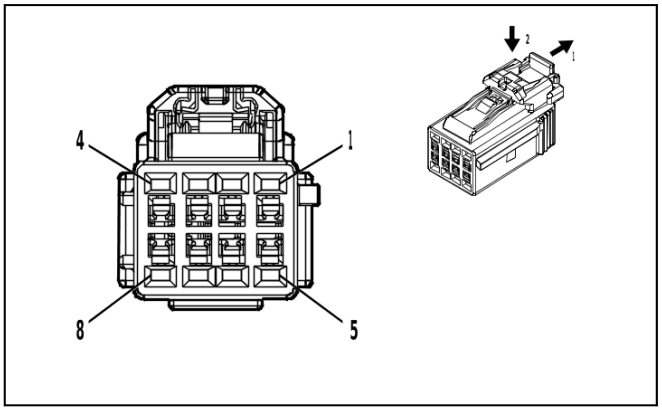
Terminal Part Information

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) —

X81ACA Front Floor Console Accessory Power Rear Receptacle - 110V AC (KI4 & D07)



5086387

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 35029311
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 1.2 Series(BK)

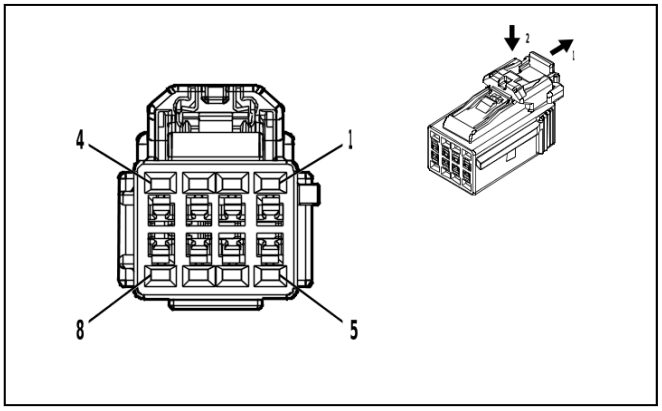
Terminal Part Information

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

X81ACA Front Floor Console Accessory Power Rear Receptacle - 110V AC (KI4 & D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) BK	(1) 10117	(1) AC Outlet Phase A Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) —	(3) VT / RD	(3) 4049	(3) AC Power Outlet Sensor High Reference	(3) I	(3) —
(4) 4	(4) —	(4) BU / BN	(4) 6807	(4) DC/AC Inverter Control	(4) I	(4) —
(5) 5	(5) —	(5) RD	(5) 10118	(5) AC Outlet Phase B Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) —	(7) BK	(7) 1350	(7) Ground	(7) I	(7) —
(8) 8	(8) —	(8) YE	(8) 6817	(8) LED Backlight Dimming Control 1	(8) I	(8) —

X81AI Accessory Power Receptacle - Instrument Panel 110V AC



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

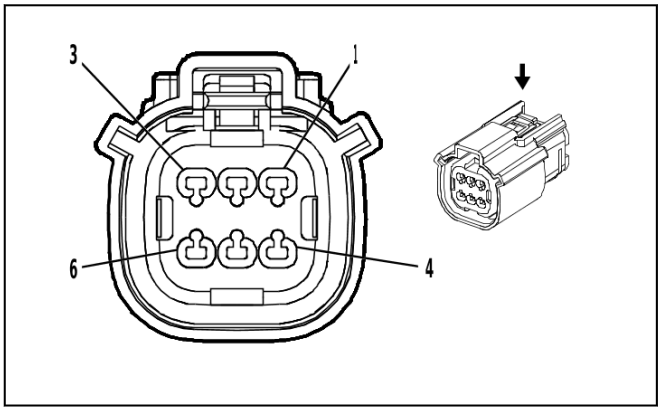
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required

X81AI Accessory Power Receptacle - Instrument Panel 110V AC

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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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) 1050	(7) 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)



1986157

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness
- OEM Connector: 33472-0616
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.5 MX Series, Sealed(BK)

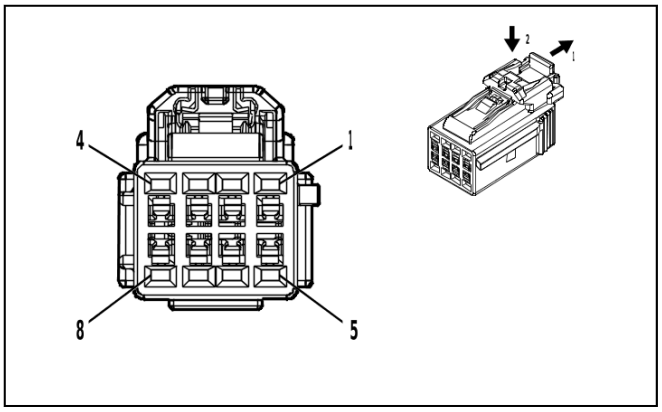
Terminal Part Information

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)

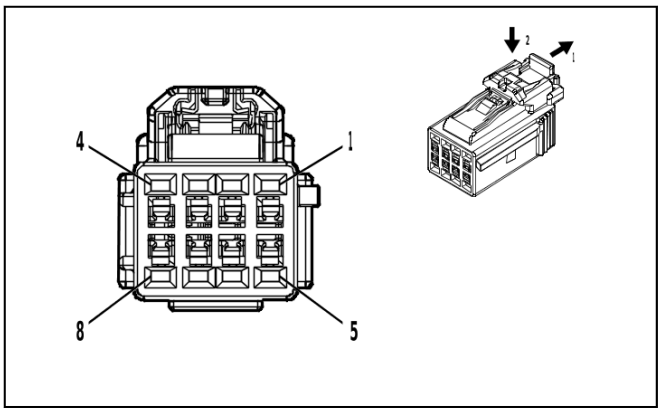
Terminal Part Information

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) —

X81BCA Front Floor Console Accessory Power Rear Receptacle - 220V AC (KI5 & D07)



5086387

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 35029311
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 1.2 Series(BK)

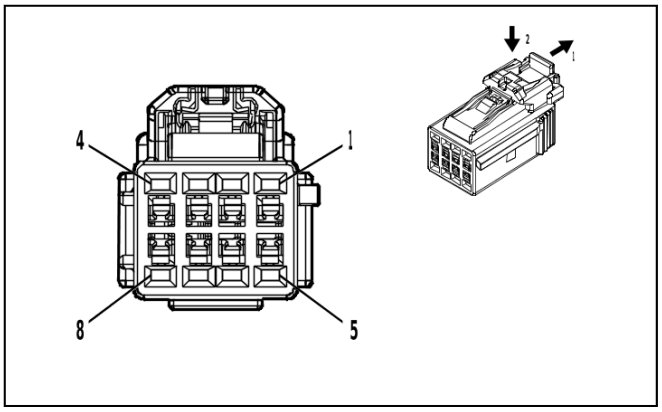
Terminal Part Information

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

X81BCA Front Floor Console Accessory Power Rear Receptacle - 220V AC (KI5 & D07)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(1) 1	(1) —	(1) BK	(1) 10117	(1) AC Outlet Phase A Control	(1) I	(1) —
2	—	—	—	Not Occupied	—	—
(3) 3	(3) —	(3) VT / RD	(3) 4049	(3) AC Power Outlet Sensor High Reference	(3) I	(3) —
(4) 4	(4) —	(4) BU / BN	(4) 6807	(4) DC/AC Inverter Control	(4) I	(4) —
(5) 5	(5) —	(5) RD	(5) 10118	(5) AC Outlet Phase B Control	(5) I	(5) —
6	—	—	—	Not Occupied	—	—
(7) 7	(7) —	(7) BK	(7) 1350	(7) Ground	(7) I	(7) —
(8) 8	(8) —	(8) YE	(8) 6817	(8) LED Backlight Dimming Control 1	(8) I	(8) —

X81BI Accessory Power Receptacle - Instrument Panel 220V AC



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)

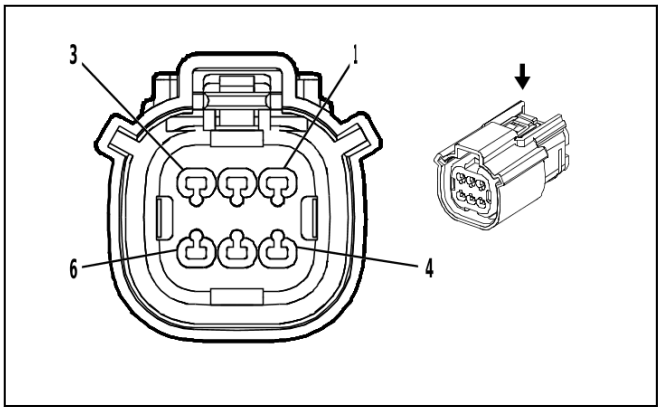
Terminal Part Information

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

X81BI Accessory Power Receptacle - Instrument Panel 220V AC

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) 1050	(7) Ground	(7) II	(7) —
(8) 8	(8) 0.35	(8) YE	(8) 6817	(8) LED Backlight Dimming Control 1	(8) I	(8) —

X81BP Pickup Box Accessory Power Receptacle - 220V AC (KCA)



1986157

Connector Part Information

- Harness Type: Chassis Rear Wiring Harness
- OEM Connector: 33472-0616
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F 1.5 MX Series, Sealed(BK)

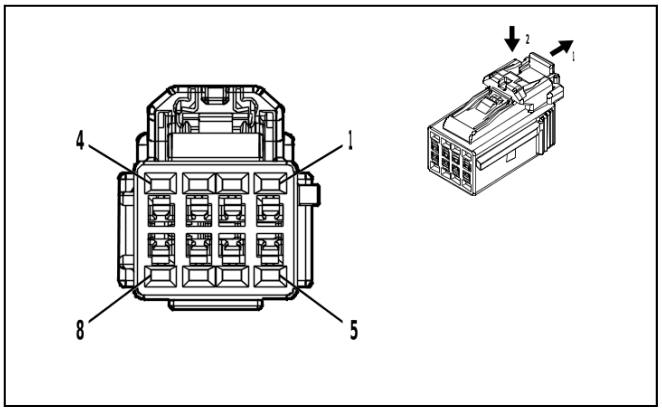
Terminal Part Information

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)

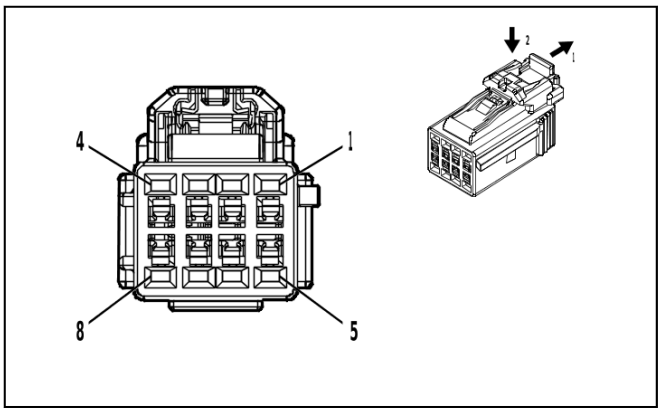
Terminal Part Information

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) —

X81FSA Accessory Power Receptacle - Front Center Seat Rear Cover 110V AC (KI4 & AZ3)



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)

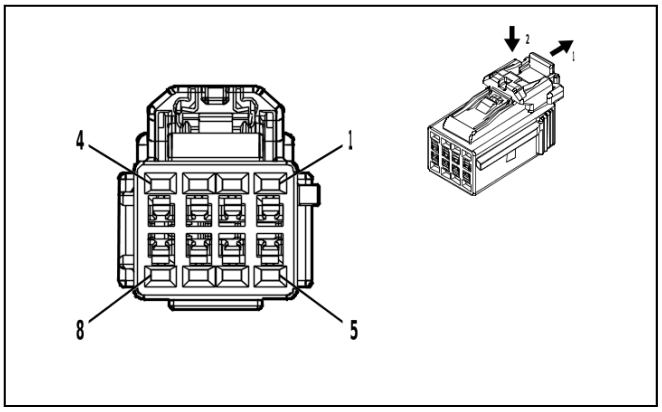
Terminal Part Information

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 & AZ3)

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)

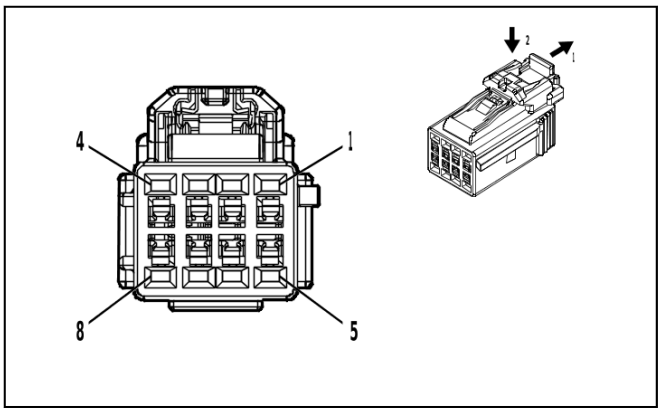
Terminal Part Information

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) —

X81FSB Accessory Power Receptacle - Front Center Seat Rear Cover 220V AC (KI5 & D07)



5086387

Connector Part Information

- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 35029311
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F 1.2 Series(BK)

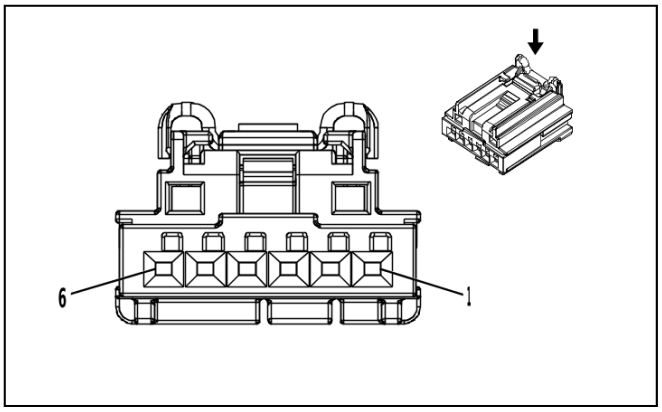
Terminal Part Information

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

X81FSB Accessory Power Receptacle - Front Center Seat Rear Cover 220V AC (KI5 & D07)

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) —

X83B Audio/Video Receptacle X1



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)

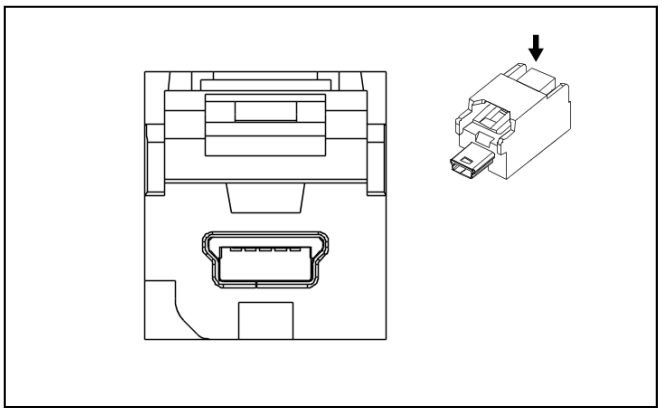
Terminal Part Information

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

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) 0.5	(3) BK / WH	(3) 1051	(3) Signal Ground	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—

X83B Audio/Video Receptacle X2



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)

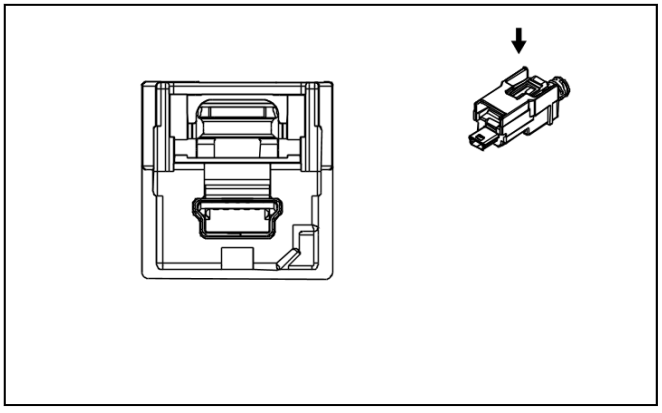
Terminal Part Information

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

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

X83B Audio/Video Receptacle X3



2807425

Connector Part Information
- Harness Type: Front Floor Console Wiring Harness USB
- OEM Connector: 13890925
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 5-Way M 2.0 Mini-B USB Type(BK)

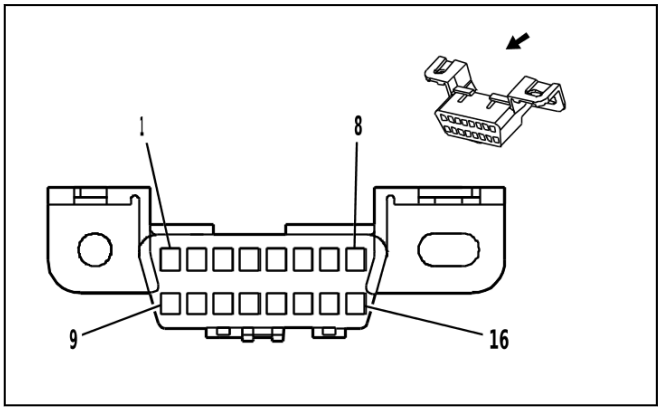
Terminal Part Information

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

X83B Audio/Video Receptacle X3

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

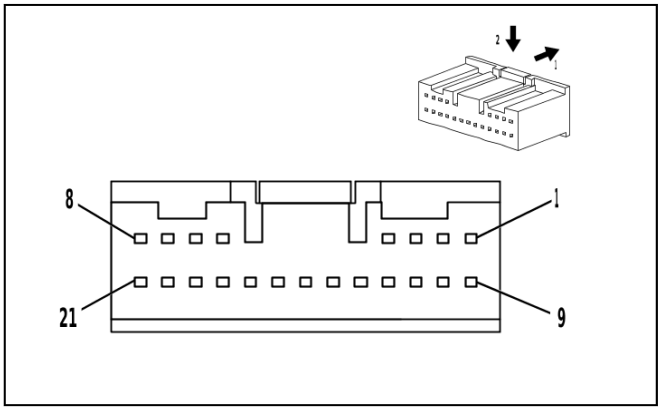
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13580059	J-35616-14 (GN)	J-38125-12A
II	Service by Cable	J-35616-14 (GN)	J-38125-553

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) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(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) 0.35	(10) BN	(10) 2577	(10) Private Serial Data Presentation CAN Bus [-] 1 Serial Data	(10) I	(10) —
(11) 11	(11) 0.35	(11) YE	(11) 4972	(11) Ethernet Bus 1R [-]	(11) II	(11) —
(12) 12	(12) 0.35	(12) BU	(12) 4975	(12) Ethernet Bus 1T [+]	(12) II	(12) —
(13) 13	(13) 0.35	(13) GN	(13) 4974	(13) Ethernet Bus 1T [-]	(13) II	(13) —
(14) 14	(14) 0.35	(14) WH	(14) 4980	(14) AUTOSAR CAN Bus [-] 6 Serial Data	(14) I	(14) —
(15) 15	(15) 0.35	(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



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)

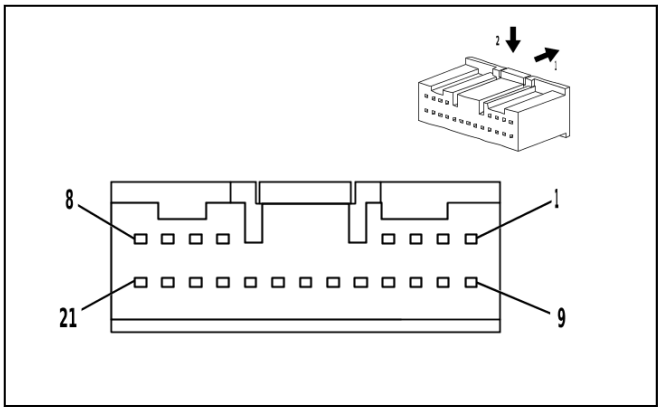
Terminal Part Information

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

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) 0.35	(5) OG / GN	(5) 3023	(5) Steering Wheel Air Bag Stage 2 High Control	(5) II	(5) —
(6) 6	(6) 0.35	(6) WH / OG	(6) 3022	(6) Steering Wheel Air Bag Stage 2 Low Control	(6) II	(6) —
(7) 7	(7) 0.35	(7) BN / OG	(7) 3020	(7) Steering Wheel Air Bag Stage 1 Low Control	(7) II	(7) —
(8) 8	(8) 0.35	(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) 0.35	(10) GN / BK	(10) 2858	(10) Body Control Module LIN Bus 12	(10) I	(10) —
(11) 11	(11) 0.35	(11) BN / GN	(11) 1884	(11) Cruise Control Set/Coast/Resume/ Accelerate Switch Signal	(11) I	(11) —
(12) 12	(12) 0.35	(12) BK / VT	(12) 1449	(12) Steering Wheel Resistor Ladder Low Reference	(12) I	(12) —
13	—	—	—	Not Occupied	—	—
(14) 14	(14) 0.35	(14) RD / GN	(14) 5140	(14) Battery Positive Voltage	(14) I	(14) —
(15) 15	(15) 0.35	(15) GY / GN	(15) 5737	(15) Distance Sensing Cruise Control Gap Up/ Down Switch Signal	(15) I	(15) —
16	—	—	—	Not Occupied	—	—
(17) 17	(17) 0.35	(17) YE	(17) 6817	(17) LED Backlight Dimming Control 1	(17) I	(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) 10040	(21) Battery Positive Voltage	(21) I	(21) —

X85 Steering Wheel Airbag Coil X2



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

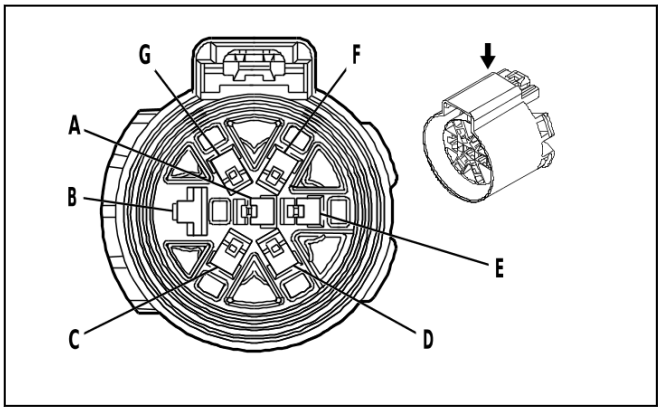
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-64B (L-BU)	No Tool Required

X85 Steering Wheel Airbag Coil X2

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) —
(10) 10	(10) 0.5	(10) BK	(10) 6050	(10) Steering Wheel Ground	(10) I	(10) —
11 - 12	—	—	—	Not Occupied	—	—
(13) 13	(13) 0.35	(13) YE	(13) 6817	(13) LED Backlight Dimming Control 1	(13) I	(13) —
14	—	—	—	Not Occupied	—	—
(15) 15	(15) 0.35	(15) GY / GN	(15) 5737	(15) Distance Sensing Cruise Control Gap Up/ Down Switch Signal	(15) I	(15) —

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
(16) 16	(16) 0.35 (16) 0.35	(16) GN / GN (16) GN	(16) 5140 (16) 5140	(16) Battery Positive Voltage (16) Battery Positive Voltage	(16) I (16) I	(16) — (16) —
17	—	—	—	Not Occupied	—	—
(18) 18	(18) 0.35	(18) BK / VT	(18) 1449	(18) Steering Wheel Resistor Ladder Low Reference	(18) I	(18) —
(19) 19	(19) 0.35	(19) BN / GN	(19) 1884	(19) Cruise Control Set/Coast/Resume/ Accelerate Switch Signal	(19) I	(19) —
(20) 20	(20) 0.35	(20) GN / BK	(20) 2858	(20) Body Control Module LIN Bus 12	(20) I	(20) —
(21) 21	(21) 0.35	(21) BK / BU	(21) 3894	(21) Instrument Panel Cluster Control Module LIN Bus 1	(21) I	(21) —

X88B Tow Vehicle Electrical Receptacle X1 (- UY2)



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

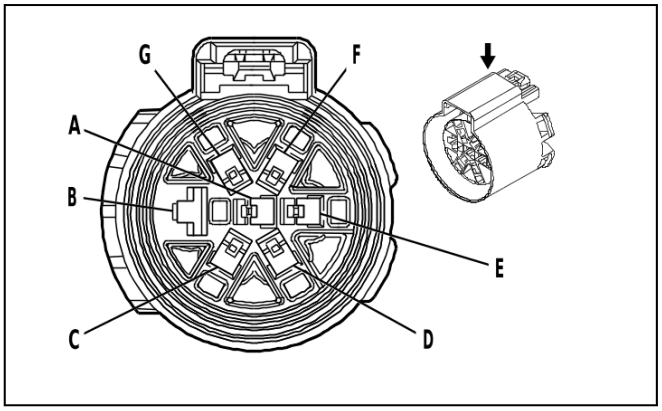
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required

X88B Tow Vehicle Electrical Receptacle X1 (- UY2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	GY	5189	Trailer Backup Lamp Control	II	—
B	5	WH	22	Trailer Ground	I	—
C	4	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	—

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
F	1.5	BN	2109	Trailer Park Lamp Control	II	—
G	1	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	II	—

X88B Tow Vehicle Electrical Receptacle X1 (UY2)



2056936

Connector Part Information

- Harness Type: Trailer Rear Wiring Harness
- OEM Connector: 13857223
- Service Connector: Service by Harness - See Part Catalog
- Description: 7-Way F 280, 630 Metri-Pack Series, Sealed(BK)

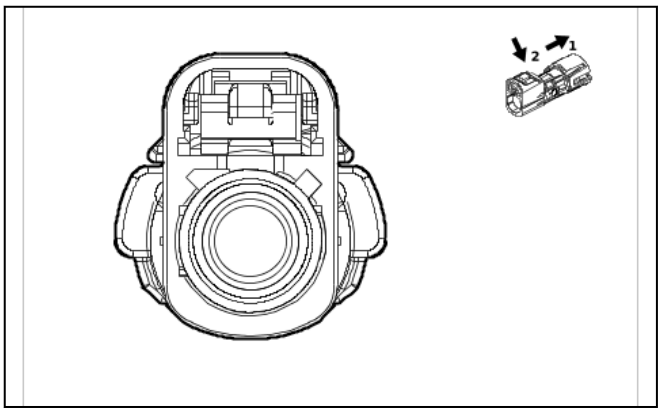
Terminal Part Information

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 (UY2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	GY	1624	Trailer Backup Lamp Control	II	—
B	5	WH	22	Trailer Ground	I	—
C	4	BU	47	Trailer Auxiliary Control	II	—
D	1	GN	1619	Right Rear Trailer Stop/Turn Lamp Control	II	—
E	4	OG	3640	Battery Positive Voltage	II	—
F	1.5	BN	2109	Trailer Park Lamp Control	II	—
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)

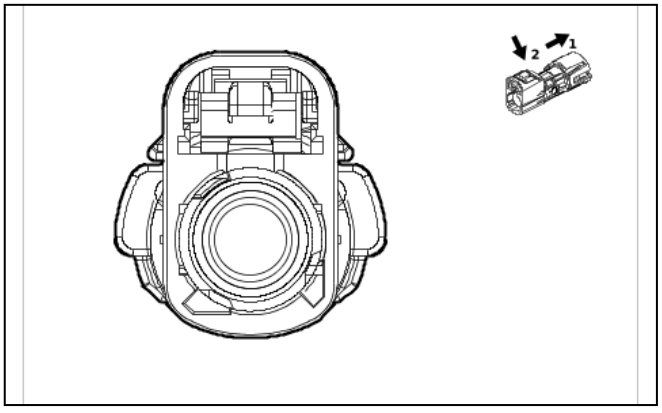
Terminal Part Information

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)

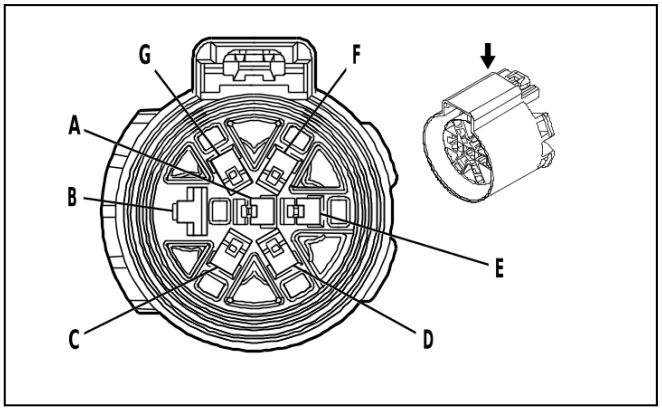
Terminal Part Information

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	—

X88GB Tow Vehicle Electrical Receptacle - 5th Wheel/Camper



2056936

Connector Part Information

- Harness Type: Trailer Rear Wiring Harness
- OEM Connector: 13857223
- Service Connector: Service by Harness - See Part Catalog
- Description: 7-Way F 280, 630 Metri-Pack Series, Sealed(BK)

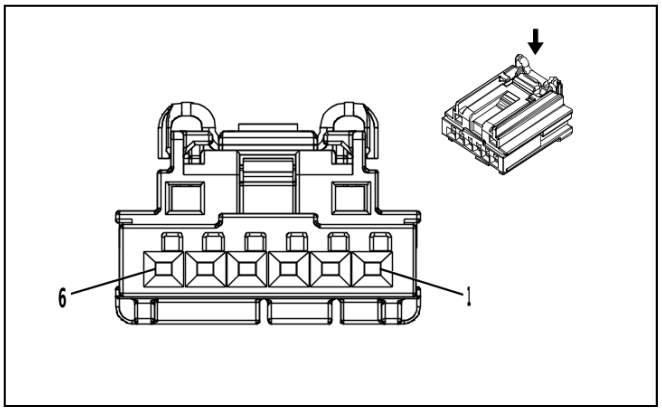
Terminal Part Information

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

X88GB Tow Vehicle Electrical Receptacle - 5th Wheel/Camper

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	GY	1624	Trailer Backup Lamp Control	II	—
B	5	WH	22	Trailer Ground	I	—
C	4	BU	47	Trailer Auxiliary Control	II	—
D	1	GN	1619	Right Rear Trailer Stop/Turn Lamp Control	II	—
E	4	OG	3640	Battery Positive Voltage	II	—
F	1.5	BN	2109	Trailer Park Lamp Control	II	—
G	1	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	II	—

X92CD Dual Charge Only Receptacle - Floor Console Rear



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)

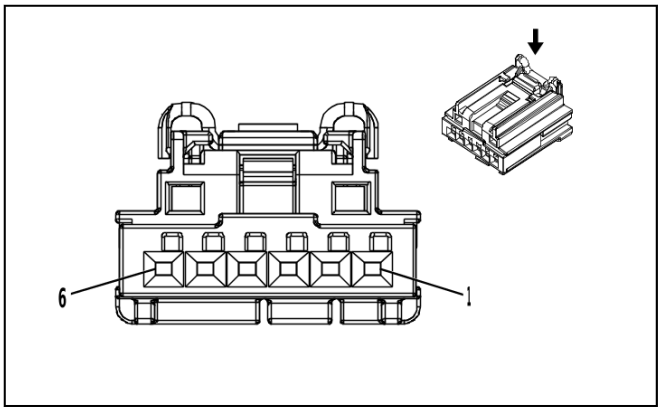
Terminal Part Information

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

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	—	—

X92CF USB 2 Port Receptacle - Floor Console Front X1



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)

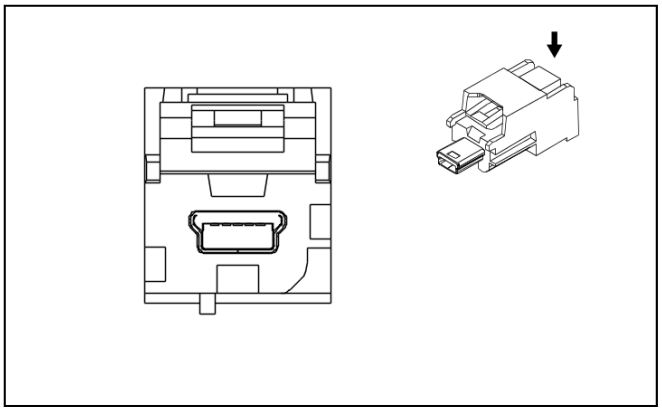
Terminal Part Information

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

X92CF USB 2 Port Receptacle - Floor Console Front X1

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) 0.5	(3) BK / WH	(3) 1051	(3) Signal Ground	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—

X92CF USB 2 Port Receptacle - Floor Console Front X2



3028807

Connector Part Information
- Harness Type: Front Floor Console Wiring Harness USB
- OEM Connector: 13921002
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 5-Way M 2.0 Mini-B USB Type(GY)

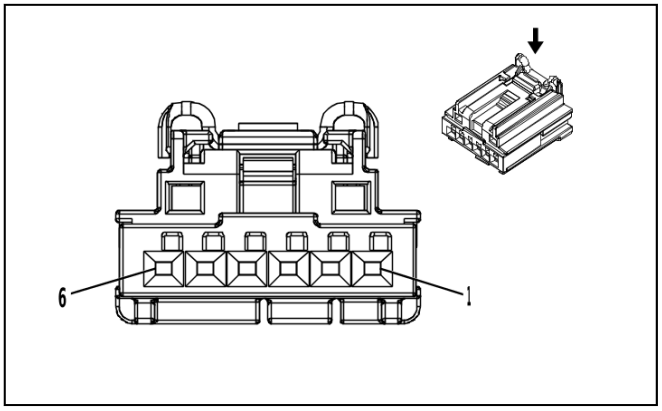
Terminal Part Information

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

X92CF USB 2 Port Receptacle - Floor Console Front X2

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

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)

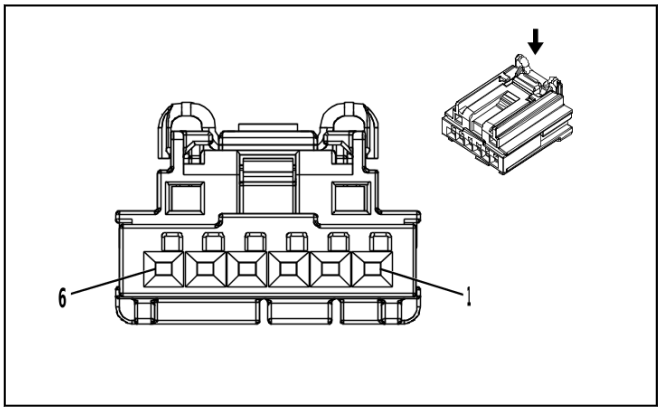
Terminal Part Information

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) 1350	(3) Ground	(3) I	(3) —
4 - 6	—	—	—	Not Occupied	—	—

X92IP USB 2 Port Receptacle - Instrument Panel X1



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)

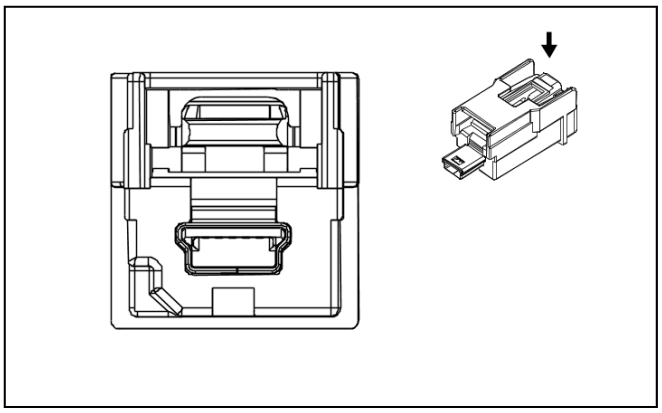
Terminal Part Information

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

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 (IOK)



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)

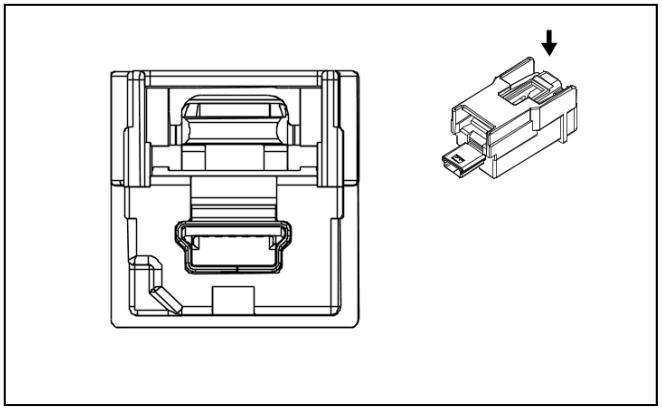
Terminal Part Information

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 (IOK)

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

X92IP USB 2 Port Receptacle - Instrument Panel X2 (IOR)



2807491

Connector Part Information
- Harness Type: Instrument Panel Wiring Harness USB
- OEM Connector: 111014-9501
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 5-Way M 2.0 Mini-B USB Type(GY)

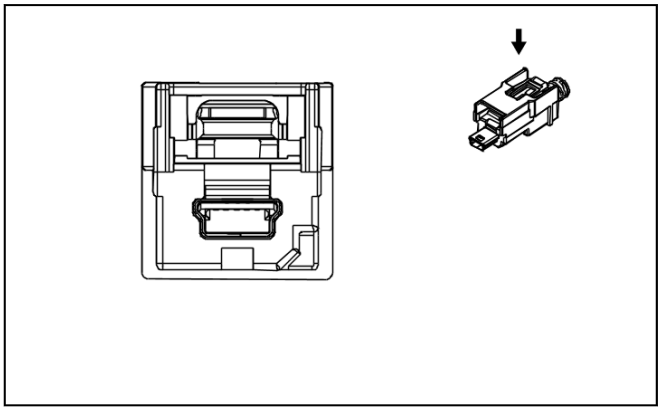
Terminal Part Information

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 (IOR)

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

X92IP USB 2 Port Receptacle - Instrument Panel X3



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)

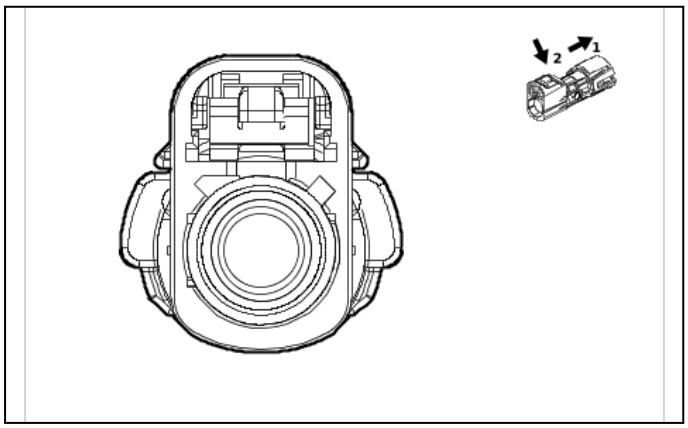
Terminal Part Information

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

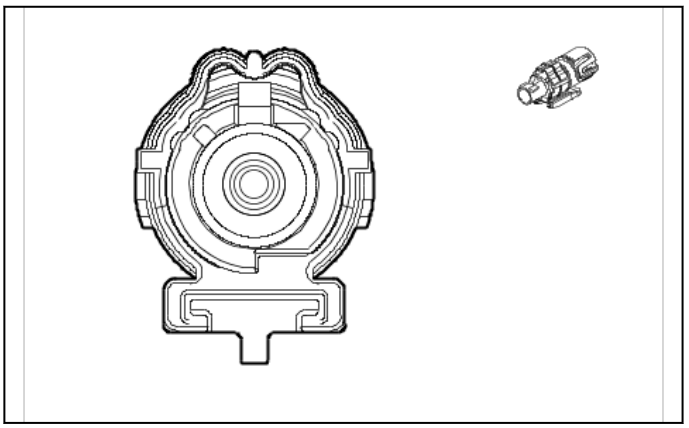
X92IP USB 2 Port Receptacle - Instrument Panel X3

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: 13529782
- 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)

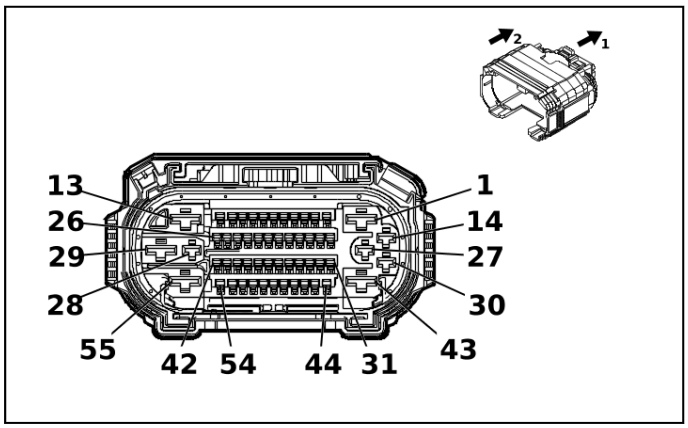
Terminal Part Information

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

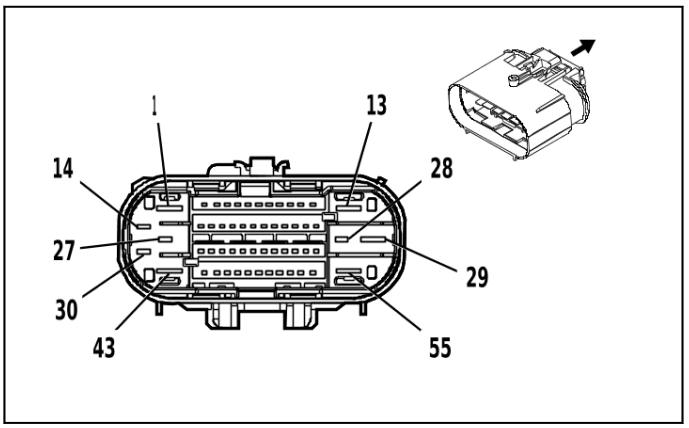
X122 Front View Camera Switch Wiring Harness to Body Wiring Harness

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	—

X125 Body Wiring Harness to Engine Wiring Harness



5246872



4994369

Connector Part Information
- Harness Type: Body Wiring Harness
- OEM Connector: 35582969
- Service Connector: 19371184
- Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(GY)

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13530983
- 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

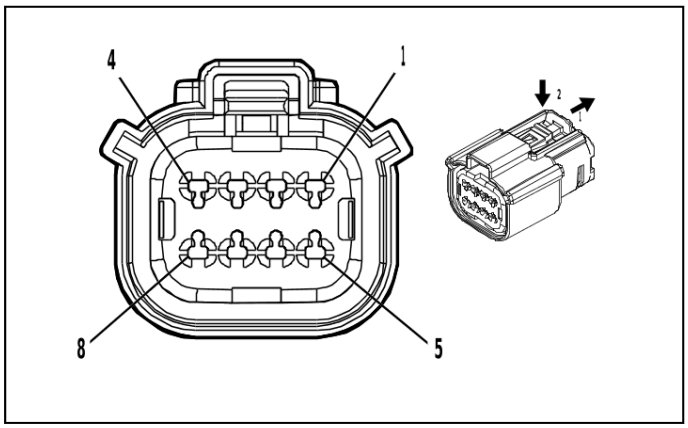
X125 Body Wiring Harness to Engine Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 4	(1) BK / WH	(1) 251	(1) IV	(1) —	(1) Signal Ground	(1) 1	(1) 4	(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) 3	(3) 0.5	(3) BN / GN	(3) 4311	(3) II	(3) —	(3) Power Take-Off Enable Cabin Switch Normally Closed Signal	(3) 3	(3) 0.5	(3) BN / GN	(3) 4311	(3) VI	(3) —
4 - 7	—	—	—	—	—	Not Occupied	4 - 7	—	—	—	—	—
(8) 8	(8) 0.35	(8) WH / RD	(8) 1164	(8) II	(8) —	(8) Accelerator Pedal Position 5V Reference 1	(8) 8	(8) 0.5	(8) WH / RD	(8) 1164	(8) VI	(8) —

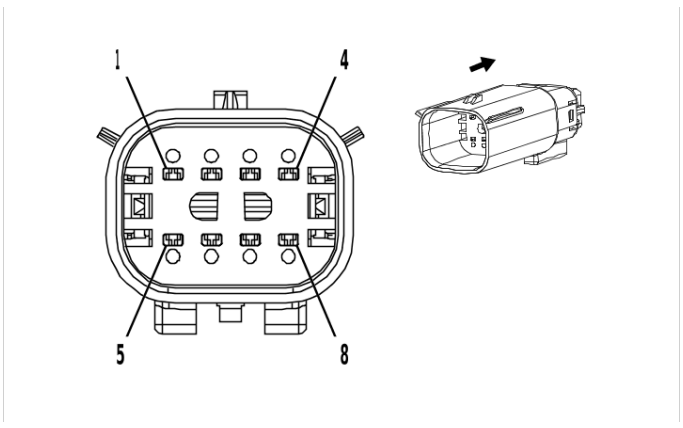
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(9) 9	(9) 0.35	(9) BK / BU	(9) 1271	(9) II	(9) —	(9) Accelerator Pedal Position Low Reference 1	(9) 9	(9) 0.5	(9) BK / BU	(9) 1271	(9) VI	(9) —
(10) 10	(10) 0.35	(10) YE / WH	(10) 1161	(10) II	(10) —	(10) Accelerator Pedal Position Signal 1	(10) 10	(10) 0.5	(10) YE / WH	(10) 1161	(10) VI	(10) —
(11) 11	(11) 0.35	(11) GN / WH	(11) 1162	(11) II	(11) —	(11) Accelerator Pedal Position Signal 2	(11) 11	(11) 0.5	(11) GN / WH	(11) 1162	(11) VI	(11) —
(12) 12	(12) —	(12) —	(12) —	(12) —	(12) —	(12) Unused	(12) 12	(12) 1	(12) BK	(12) 9003	(12) VII	(12) —
(13) 13	(13) 0.5	(13) RD / BU	(13) 4540	(13) IV	(13) —	(13) Battery Positive Voltage	(13) 13	(13) 0.5	(13) RD / BU	(13) 4540	(13) V	(13) —
(14) 14	(14) 0.5	(14) RD / VT	(14) 2640	(14) I	(14) —	(14) Battery Positive Voltage	(14) 14	(14) 0.5	(14) RD / VT	(14) 2640	(14) VIII	(14) —
(15) 15	(15) 0.35	(15) BN / RD	(15) 1274	(15) II	(15) —	(15) Accelerator Pedal Position 5V Reference 2	(15) 15	(15) 0.5	(15) BN / RD	(15) 1274	(15) VI	(15) —
(16) 16	(16) 0.5	(16) YE	(16) 4063	(16) II	(16) —	(16) Hood Status A Signal	(16) 16	(16) 0.5	(16) YE	(16) 4063	(16) VI	(16) —
17	—	—	—	—	—	Not Occupied	17	—	—	—	—	—
(18) 18	(18) 0.35	(18) WH / RD	(18) 480	(18) II	(18) —	(18) Engine Control Vehicle Sensors 5 Volt Reference 1	(18) 18	(18) 0.5	(18) WH / RD	(18) 480	(18) VI	(18) —
(19) 19	(19) 0.35	(19) GN / BN	(19) 507	(19) II	(19) —	(19) Wait To Start Indicator Control	(19) 19	(19) 0.5	(19) GN / BN	(19) 507	(19) VI	(19) —
(20) 20	(20) 0.35	(20) WH / GN	(20) 5380	(20) II	(20) —	(20) Brake Position Sensor Signal	(20) 20	(20) 0.5	(20) WH / GN	(20) 5380	(20) VI	(20) —
21	—	—	—	—	—	Not Occupied	21	—	—	—	—	—
(22) 22	(22) 0.35	(22) BK / VT	(22) 1272	(22) II	(22) —	(22) Accelerator Pedal Position Low Reference 2	(22) 22	(22) 0.5	(22) BK / VT	(22) 1272	(22) VI	(22) —
(23) 23	(23) 0.5	(23) BK / GY	(23) 626	(23) II	(23) —	(23) Engine Control Vehicle Sensors Low Reference 1	(23) 23	(23) 0.5	(23) BK / GY	(23) 626	(23) VI	(23) —
24	—	—	—	—	—	Not Occupied	24	—	—	—	—	—
(25) 25	(25) 0.5	(25) BU / GY	(25) 636	(25) II	(25) —	(25) Ambient Air Temperature Sensor Signal	(25) 25	(25) 0.5	(25) BU / GY	(25) 636	(25) VI	(25) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(26) 26	(26) 0.5	(26) BU / BN	(26) 75 73	(26) II	(26) —	(26) Air Conditioning Compressor Solenoid Valve Control	(26) 26	(26) 0.75	(26) BU / BN	(26) 75 73	(26) VI	(26) —
(27) 27	(27) 0.5	(27) BU / YE	(27) 75 74	(27) I	(27) —	(27) Air Conditioning Compressor Solenoid Valve Control	(27) 27	(27) 0.75	(27) BU / YE	(27) 75 74	(27) VIII	(27) —
(28) 28	(28) 0.5	(28) GN / WH	(28) 48 8	(28) I	(28) —	(28) Power Take-Off Control Switch Signal	(28) 28	(28) 0.5	(28) GN / WH	(28) 48 8	(28) VIII	(28) —
29 - 32	—	—	—	—	—	Not Occupied	29 - 32	—	—	—	—	—
(33) 33	(33) 0.5	(33) VT / WH	(33) 23 9	(33) II	(33) —	(33) Run/ Crank Ignition 1 Voltage	(33) 33	(33) 0.5	(33) VT / WH	(33) 23 9	(33) VI	(33) —
(34) 34	(34) 0.5	(34) GY / BN	(34) 70 65	(34) II	(34) —	(34) Right Front Wheel Speed Sensor Control	(34) 34	(34) 0.5	(34) GY / BN	(34) 70 65	(34) VI	(34) —
(35) 35	(35) 0.5	(35) YE	(35) 87 2	(35) II	(35) —	(35) Right Front Wheel Speed Sensor Signal	(35) 35	(35) 0.5	(35) YE	(35) 87 2	(35) VI	(35) —
36 - 43	—	—	—	—	—	Not Occupied	36 - 43	—	—	—	—	—
(44) 44	(44) —	(44) —	(44) —	(44) —	(44) —	(44) Unused	(44) 44	(44) 1	(44) BK	(44) 90 03	(44) VII	(44) —
45 - 46	—	—	—	—	—	Not Occupied	45 - 46	—	—	—	—	—
(47) 47	(47) 0.35	(47) BU / YE	(47) 68	(47) II	(47) —	(47) Low Coolant Level Indicator Control	(47) 47	(47) 0.5	(47) BU / YE	(47) 68	(47) VI	(47) —
48 - 52	—	—	—	—	—	Not Occupied	48 - 52	—	—	—	—	—
(53) 53	(53) 0.35	(53) BN / BU	(53) 48 92	(53) II	(53) —	(53) Auxiliary Battery Relay Control	(53) 53	(53) 0.5	(53) BN / BU	(53) 48 92	(53) VI	(53) —
(54) 54	(54) —	(54) —	(54) —	(54) —	(54) —	(54) Unused	(54) 54	(54) 1	(54) BK	(54) 90 03	(54) VII	(54) —
55	—	—	—	—	—	Not Occupied	55	—	—	—	—	—

X128 Engine Wiring Harness to Camshaft Position Sensor Wire



4846407



2667653

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: 13520589
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

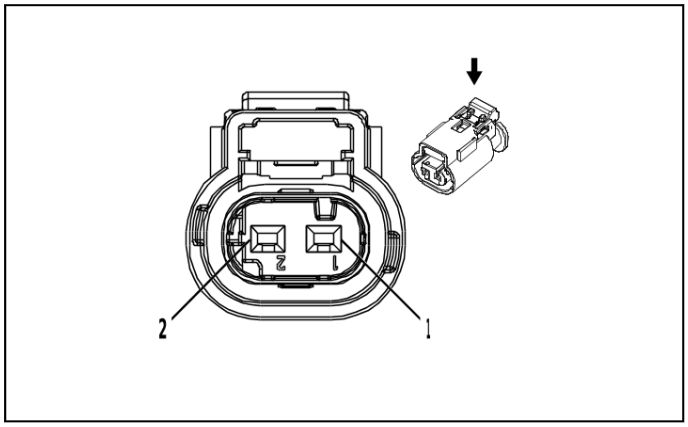
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X128 Engine Wiring Harness to Camshaft Position Sensor Wire

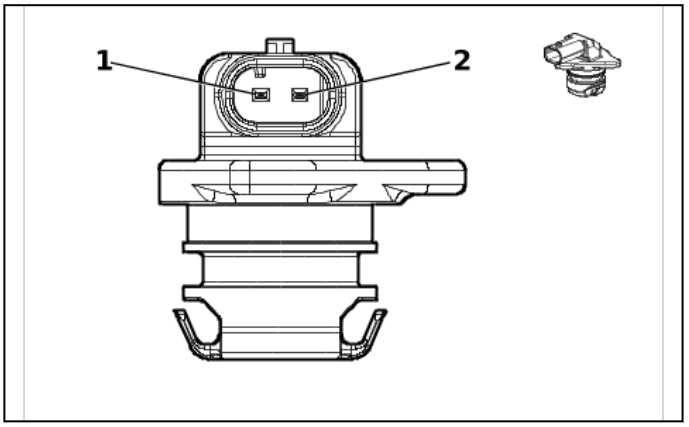
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / BU	(1) 5300	(1) I	(1) —	(1) Intake Camshaft Position Sensor 1 Voltage Reference	(1) 1	(1) 0.5	(1) GY / BU	(1) 5300	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / GN	(2) 5301	(2) I	(2) —	(2) Intake Camshaft Position Sensor Low Reference 1	(2) 2	(2) 0.5	(2) BK / GN	(2) 5301	(2) II	(2) —
(3) 3	(3) 0.5	(3) YE / VT	(3) 5275	(3) I	(3) —	(3) Intake Camshaft Position Sensor 1	(3) 3	(3) 0.5	(3) YE / VT	(3) 5275	(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) 5284	(5) I	(5) —	(5) Intake Camshaft Position Actuator Solenoid Valve 1	(5) 5	(5) 0.5	(5) VT / BN	(5) 5284	(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) 6753	(6) I	(6) —	(6) Camshaft Position Actuator Solenoid Valve W Low Reference	(6) 6	(6) 0.5	(6) BK / BN	(6) 6753	(6) II	(6) —
(7) 7	(7) 0.5	(7) VT / BU	(7) 5293	(7) I	(7) —	(7) Powertrain Main Relay Fused Supply Voltage 4	(7) 7	(7) 0.5	(7) VT / BU	(7) 5293	(7) II	(7) —
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—

X129 Camshaft Position Sensor Wire to Oil Pump Flow Control Solenoid Valve Wire



2717066



5869753

Connector Part Information
- Harness Type: Camshaft Position Sensor Wire
- 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)

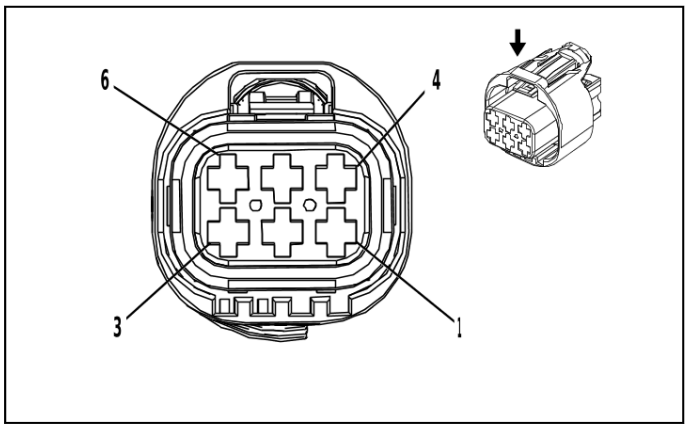
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-13 (BU)	No Tool Required

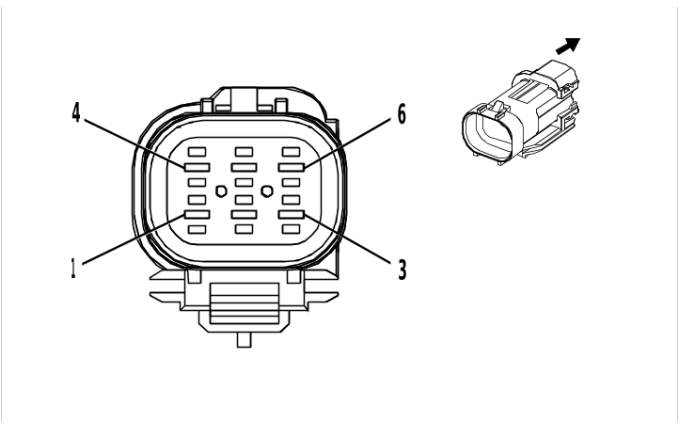
X129 Camshaft Position Sensor Wire to Oil Pump Flow Control Solenoid Valve Wire

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) 5293	(1) I	(1) —	(1) Powertrain Main Relay Fused Supply Voltage 4	(1) 1	(1) 0.5	(1) VT / BU	(1) 5293	(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) —

X135 Engine Wiring Harness to Battery Positive Cable



2042938



2042939

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 1452327-2
- Service Connector: 19332889
- Description: 6-Way F 2.8 Junior Power Timer Series, Sealed(GY)

Connector Part Information
- Harness Type: Battery Positive Cable
- OEM Connector: 1452324-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way M 2.8 Series, Sealed(BK)

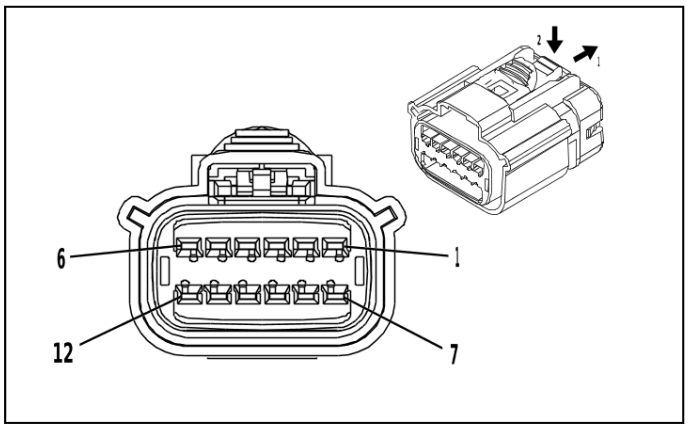
Terminal Part Information

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

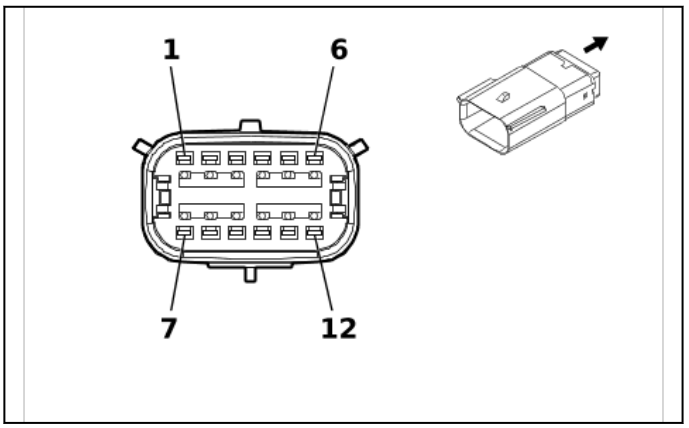
X135 Engine Wiring Harness to Battery Positive Cable

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN / BU	(1) 4892	(1) I	(1) —	(1) Auxiliary Battery Relay Control	(1) 1	(1) 0.5	(1) VT / BN	(1) 300	(1) II	(1) —
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
(3) 3	(3) 0.5	(3) RD / WH	(3) 3440	(3) I	(3) —	(3) Battery Positive Voltage	(3) 3	(3) 0.5	(3) RD / YE	(3) 4540	(3) II	(3) —
(4) 4	(4) 1.5	(4) BK	(4) 450	(4) I	(4) —	(4) Ground	(4) 4	(4) 0.5	(4) BK	(4) 450	(4) II	(4) —
5 - 6	—	—	—	—	—	Not Occupied	5 - 6	—	—	—	—	—

X150 Front Object Alarm Sensor Wiring Harness to Body Wiring Harness



4621955



4862194

Connector Part Information
- Harness Type: Front Object Alarm Sensor Wiring Harness
- OEM Connector: 15514623
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way F 1.5 OCS Series, Sealed(BK)

Connector Part Information
- Harness Type: Body Wiring Harness
- OEM Connector: 35600463
- Service Connector: 19371239
- Description: 12-Way M 1.5 OCS Series, Sealed(BK)

Terminal Part Information

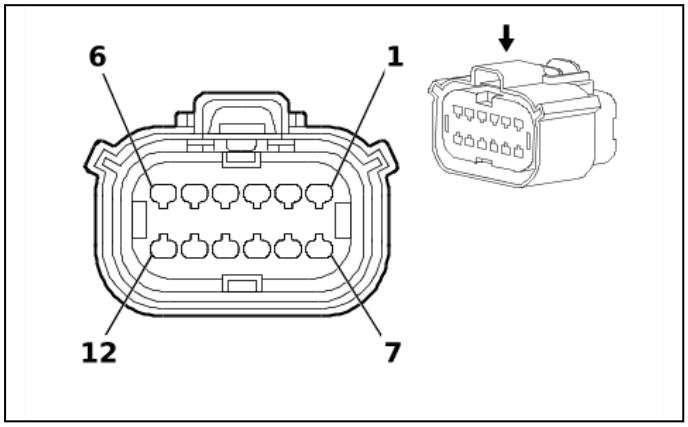
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	19352418	J-35616-3 (GY)	J-38125-215A

X150 Front Object Alarm Sensor Wiring Harness to Body Wiring Harness

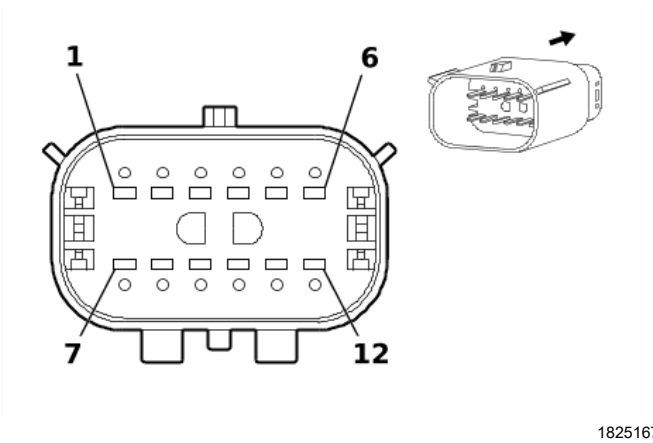
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 2	—	—	—	—	—	Not Occupied	1 - 2	—	—	—	—	—
(3) 3	(3) 0.5	(3) BK / BU	(3) 5214	(3) I	(3) —	(3) Front Parking Assist Sensor Low Reference	(3) 3	(3) 0.5	(3) BK / BU	(3) 5214	(3) II	(3) —
(4) 4	(4) 0.5	(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) II	(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) II	(5) —
(6) 6	(6) 0.5	(6) WH / GY	(6) 5217	(6) I	(6) —	(6) Right Front Outer Parking Assist Sensor	(6) 6	(6) 0.5	(6) WH / GY	(6) 5217	(6) II	(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) II	(7) —
(8) 8	(8) 0.5	(8) BK	(8) 650	(8) I	(8) —	(8) Ground	(8) 8	(8) 0.5	(8) BK	(8) 650	(8) II	(8) —
9	—	—	—	—	—	Not Occupied	9	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(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) II	(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) II	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

X160 Engine Wiring Harness to Fuel Injector Wiring Harness - Left



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 - Left
- OEM Connector: 13520581
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

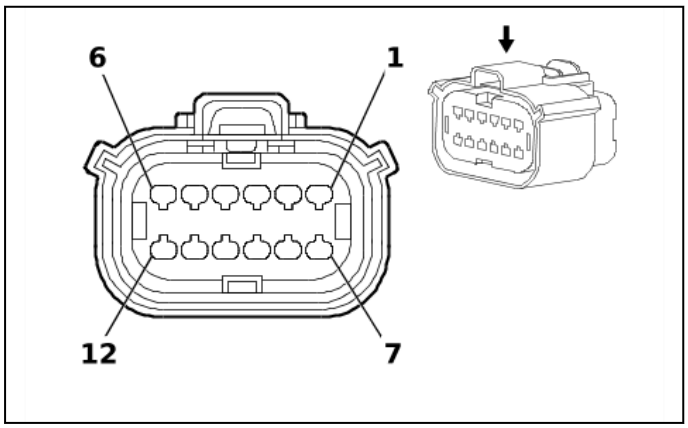
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217
II	Not required	J-35616-3 (GY)	No Tool Required

X160 Engine Wiring Harness to Fuel Injector Wiring Harness - Left

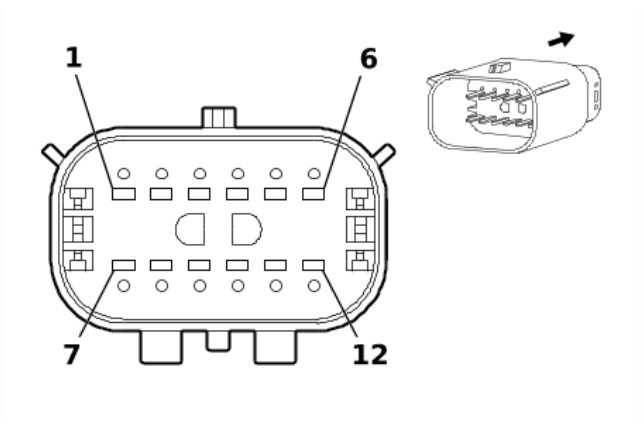
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / WH	(1) 490 1	(1) I	(1) —	(1) Direct Fuel Injector High Voltage Supply Cylinder 1	(1) 1	(1) 0.75	(1) BN / WH	(1) 490 1	(1) II	(1) —
(2) 2	(2) 0.75	(2) G N / GY	(2) 490 3	(2) I	(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) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(3) 3	(3) 0.75	(3) GN / WH	(3) 4905	(3) I	(3) —	(3) Direct Fuel Injector High Voltage Supply Cylinder 5	(3) 3	(3) 0.75	(3) GN / WH	(3) 4905	(3) II	(3) —
(4) 4	(4) 0.75	(4) WH / YE	(4) 4907	(4) I	(4) —	(4) Direct Fuel Injector High Voltage Supply Cylinder 7	(4) 4	(4) 0.75	(4) WH / YE	(4) 4907	(4) II	(4) —
(5) 5	(5) 0.75	(5) BN	(5) 4801	(5) I	(5) —	(5) Direct Fuel Injector High Voltage Control Cylinder 1	(5) 5	(5) 0.75	(5) BN	(5) 4801	(5) II	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 0.75	(7) GN	(7) 4803	(7) I	(7) —	(7) Direct Fuel Injector High Voltage Control Cylinder 3	(7) 7	(7) 0.75	(7) GN	(7) 4803	(7) II	(7) —
(8) 8	(8) 0.75	(8) WH / GN	(8) 4805	(8) I	(8) —	(8) Direct Fuel Injector High Voltage Control Cylinder 5	(8) 8	(8) 0.75	(8) WH / GN	(8) 4805	(8) II	(8) —
(9) 9	(9) 0.75	(9) YE / GY	(9) 4807	(9) I	(9) —	(9) Direct Fuel Injector High Voltage Control Cylinder 7	(9) 9	(9) 0.75	(9) YE / GY	(9) 4807	(9) II	(9) —
(10) 10	(10) 0.5	(10) WH / RD	(10) 480	(10) I	(10) —	(10) Engine Control Vehicle Sensors 5 Volt Reference 1	(10) 10	(10) 0.5	(10) BN / RD	(10) 480	(10) II	(10) —
(11) 11	(11) 0.5	(11) BU / WH	(11) 10786	(11) I	(11) —	(11) Fuel Rail Pressure Sensor SENT 1 Signal	(11) 11	(11) 0.5	(11) BU / WH	(11) 10786	(11) II	(11) —
(12) 12	(12) 0.5	(12) BK / YE	(12) 548	(12) I	(12) —	(12) Engine Control Sensors Low Reference 1	(12) 12	(12) 0.5	(12) BK / GN	(12) 548	(12) II	(12) —

X161 Engine Wiring Harness to Fuel Injector Wiring Harness - Right



1825165



1825167

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)

Connector Part Information
- Harness Type: Fuel Injector Wiring Harness - Right
- OEM Connector: 334826211
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

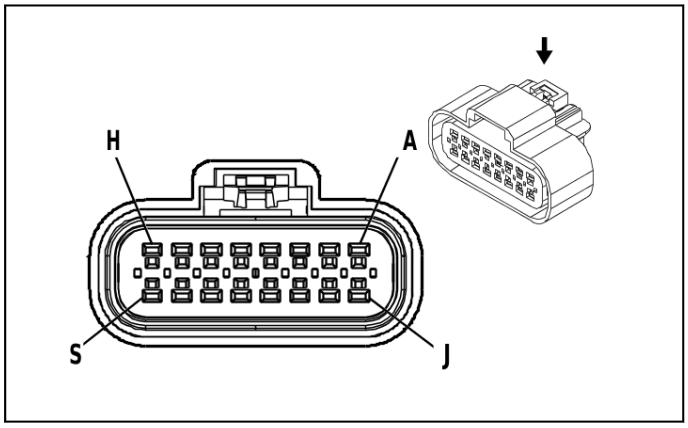
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217
II	Not required	J-35616-3 (GY)	No Tool Required

X161 Engine Wiring Harness to Fuel Injector Wiring Harness - Right

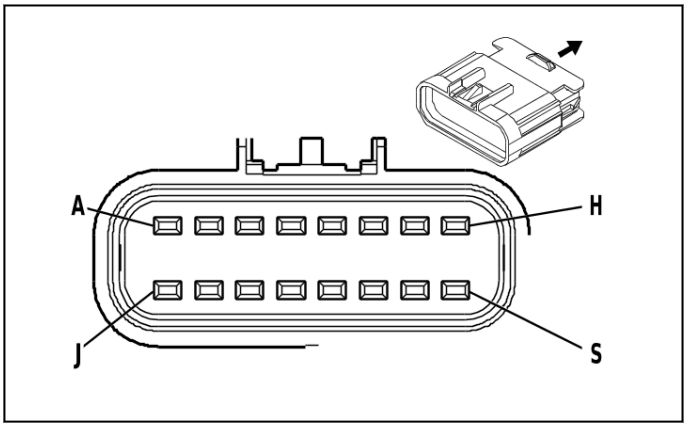
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / GY	(1) 4902	(1) I	(1) —	(1) Direct Fuel Injector High Voltage Supply Cylinder 2	(1) 1	(1) 0.75	(1) BU / GY	(1) 4902	(1) II	(1) —
(2) 2	(2) 0.75	(2) BU / WH	(2) 4904	(2) I	(2) —	(2) Direct Fuel Injector High Voltage Supply Cylinder 4	(2) 2	(2) 0.75	(2) BU / WH	(2) 4904	(2) II	(2) —
(3) 3	(3) 0.75	(3) VT / GY	(3) 4906	(3) I	(3) —	(3) Direct Fuel Injector High Voltage Supply Cylinder 6	(3) 3	(3) 0.75	(3) VT / GY	(3) 4906	(3) II	(3) —
(4) 4	(4) 0.75	(4) GY / WH	(4) 4908	(4) I	(4) —	(4) Direct Fuel Injector High Voltage Supply Cylinder 8	(4) 4	(4) 0.75	(4) GY / WH	(4) 4908	(4) II	(4) —
(5) 5	(5) 0.75	(5) BU	(5) 4802	(5) I	(5) —	(5) Direct Fuel Injector High Voltage Control Cylinder 2	(5) 5	(5) 0.75	(5) BU	(5) 4802	(5) II	(5) —
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(8) 8	(8) 0.75	(8) GY / BU	(8) 4804	(8) I	(8) —	(8) Direct Fuel Injector High Voltage Control Cylinder 4	(8) 8	(8) 0.75	(8) GY / BU	(8) 4804	(8) II	(8) —
(9) 9	(9) 0.75	(9) VT / GN	(9) 4806	(9) I	(9) —	(9) Direct Fuel Injector High Voltage Control Cylinder 6	(9) 9	(9) 0.75	(9) VT / GN	(9) 4806	(9) II	(9) —
(10) 10	(10) 0.75	(10) G Y	(10) 4808	(10) I	(10) —	(10) Direct Fuel Injector High Voltage Control Cylinder 8	(10) 10	(10) 0.75	(10) G Y	(10) 4808	(10) II	(10) —
(11) 11	(11) 0.75	(11) V T / BK	(11) 7300	(11) I	(11) —	(11) High Pressure Fuel Pump Low Control	(11) 11	(11) 0.75	(11) V T / BK	(11) 7300	(11) II	(11) —
(12) 12	(12) 0.75	(12) Y E	(12) 7301	(12) I	(12) —	(12) High Pressure Fuel Pump High Control	(12) 12	(12) 0.75	(12) Y E	(12) 7301	(12) II	(12) —

X175P Engine Wiring Harness to PTO Harness (L5P)



646383



632345

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 15326863
- Service Connector: 19180282
- Description: 16-Way F 150 GT Series, Sealed(BK)

Connector Part Information
- Harness Type: PTO Harness
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 16-Way M (BK)

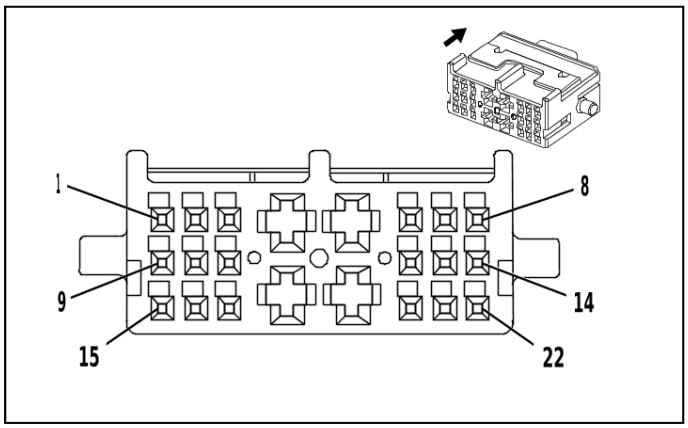
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368215	J-35616-14 (GN)	J-38125-553
II	Not required	No Tool Required	No Tool Required

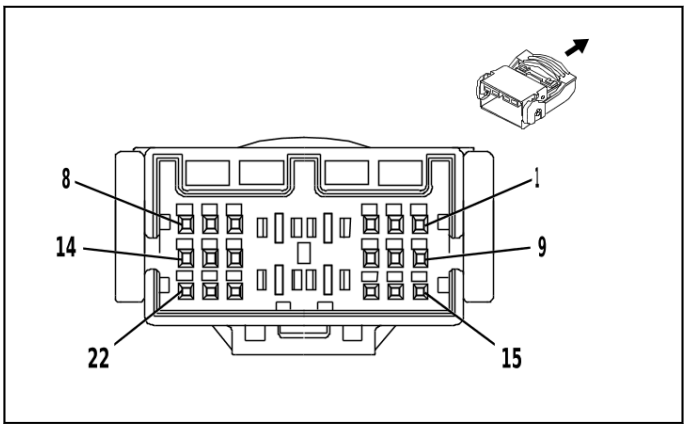
X175P Engine Wiring Harness to PTO Harness (L5P)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	GY / GN	6239	I	—	Transmission Power Take-Off Engage/ Disengage Signal Power	A	0.5	GY / GN	6239	II	—
B - C	—	—	—	—	—	Not Occupied	B - C	—	—	—	—	—
D	1.5	BK	450	I	—	Ground	D	1.5	BK	450	II	—
E - F	—	—	—	—	—	Not Occupied	E - F	—	—	—	—	—
G	0.5	WH / BK	8238	I	—	Power Take Off Upfitter Interlock Switch Signal 2	G	0.5	WH / BK	8238	II	—
H	—	—	—	—	—	Not Occupied	H	—	—	—	—	—
J	0.5	WH / GN	6142	I	—	Power Take-Off Engine Shutdown Signal	J	0.5	WH / GN	6142	II	—
K	0.5	RD / VT	2640	I	—	Battery Positive Voltage	K	0.5	RD / VT	2640	II	—
L - M	—	—	—	—	—	Not Occupied	L - M	—	—	—	—	—
N	0.5	VT / GN	4308	I	—	Power Take-Off Remote Throttle Signal	N	0.5	VT / GN	4308	II	—
P	—	—	—	—	—	Not Occupied	P	—	—	—	—	—
R	0.5	VT / WH	239	I	—	Run/Crank Ignition 1 Voltage	R	0.5	VT / WH	239	II	—
S	—	—	—	—	—	Not Occupied	S	—	—	—	—	—

X176 Automatic Transmission Wiring Harness to Transmission Control Wiring Harness



3977748



3977770

Connector Part Information
- Harness Type: Automatic Transmission Wiring Harness
- 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)

Connector Part Information
- Harness Type: Transmission Control Wiring Harness
- 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

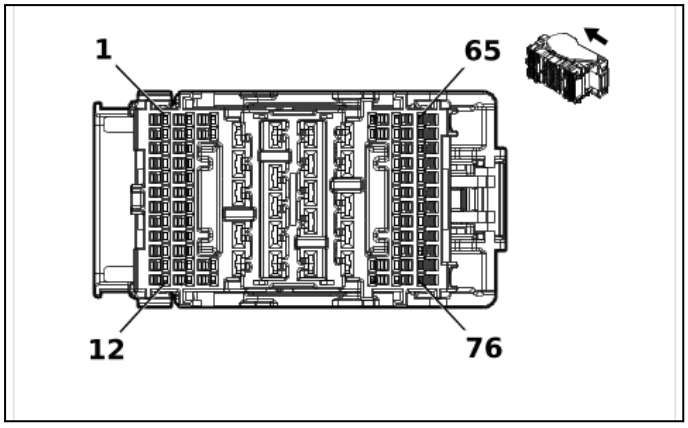
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-12 (BU)	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required
III	Not required	J-35616-65B (L-BU)	No Tool Required

X176 Automatic Transmission Wiring Harness to Transmission Control Wiring Harness

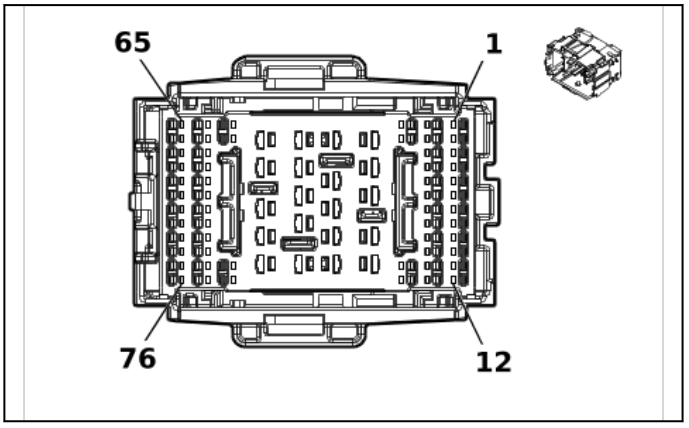
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT	(1) 7819	(1) I	(1) —	(1) Default Disable Solenoid Control	(1) 1	(1) 0.5	(1) VT	(1) 7819	(1) III	(1) —
(2) 2	(2) 0.5	(2) GN / OG	(2) 1530	(2) I	(2) —	(2) Transmission Line Pressure Control Solenoid Valve Control	(2) 2	(2) 0.5	(2) GN / OG	(2) 1530	(2) III	(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) III	(3) —
(4) 4	(4) 0.5	(4) BN	(4) 6387	(4) I	(4) —	(4) Transmission High Side Driver 1 Control	(4) 4	(4) 0.5	(4) BN	(4) 6387	(4) II	(4) —
5 - 12	—	—	—	—	—	Not Occupied	5 - 12	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(13) 13	(13) 0.5	(13) BU / BN	(13) 586	(13) I	(13) —	(13) Transmission Fluid Temperature Sensor Low Reference	(13) 13	(13) 0.5	(13) BU / BN	(13) 586	(13) III	(13) —
(14) 14	(14) 0.5	(14) BN / YE	(14) 585	(14) I	(14) —	(14) Transmission Fluid Temperature Sensor Signal	(14) 14	(14) 0.5	(14) BN / YE	(14) 585	(14) III	(14) —
(15) 15	(15) 0.5	(15) BU / GN	(15) 6404	(15) I	(15) —	(15) Clutch Solenoid Valve E Control	(15) 15	(15) 0.5	(15) BU / GN	(15) 6404	(15) III	(15) —
(16) 16	(16) 0.5	(16) GN / BN	(16) 6403	(16) I	(16) —	(16) Clutch Solenoid Valve D Control	(16) 16	(16) 0.5	(16) GN / BN	(16) 6403	(16) III	(16) —
(17) 17	(17) 0.5	(17) GY	(17) 6402	(17) I	(17) —	(17) Clutch Solenoid Valve C Control	(17) 17	(17) 0.5	(17) GY	(17) 6402	(17) III	(17) —
(18) 18	(18) 0.5	(18) WH	(18) 6388	(18) I	(18) —	(18) Transmission High Side Driver 2 Control	(18) 18	(18) 0.5	(18) WH	(18) 6388	(18) II	(18) —
19	—	—	—	—	—	Not Occupied	19	—	—	—	—	—
(20) 20	(20) 0.5	(20) BN / WH	(20) 4509	(20) I	(20) —	(20) Transmission Clutch F Control	(20) 20	(20) 0.5	(20) BN / WH	(20) 4509	(20) III	(20) —
(21) 21	(21) 0.5	(21) YE / VT	(21) 4507	(21) I	(21) —	(21) Transmission Clutch H Control	(21) 21	(21) 0.5	(21) YE / VT	(21) 4507	(21) III	(21) —
(22) 22	(22) 0.5	(22) BU / GY	(22) 4508	(22) I	(22) —	(22) Transmission Clutch G Control	(22) 22	(22) 0.5	(22) BU / GY	(22) 4508	(22) III	(22) —

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) 1540	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / GN	(1) 1540	(1) III	(1) —
(2) 2	(2) 0.5	(2) RD / YE	(2) 6540	(2) I	(2) —	(2) Battery Positive Voltage	(2) 2	(2) 0.5	(2) RD / YE	(2) 6540	(2) III	(2) —
(3) 3	(3) 0.35	(3) BN / OG	(3) 3020	(3) I	(3) —	(3) Steering Wheel Air Bag Stage 1 Low Control	(3) 3	(3) 0.35	(3) BN / OG	(3) 3020	(3) III	(3) —
(4) 4	(4) 0.35	(4) OG / VT	(4) 3021	(4) I	(4) —	(4) Steering Wheel Air Bag Stage 1 High Control	(4) 4	(4) 0.35	(4) OG / VT	(4) 3021	(4) III	(4) —
(5) 5	(5) 0.35	(5) WH / OG	(5) 3022	(5) I	(5) —	(5) Steering Wheel Air Bag Stage 2 Low Control	(5) 5	(5) 0.35	(5) WH / OG	(5) 3022	(5) III	(5) —
(6) 6	(6) 0.35	(6) OG / GN	(6) 3023	(6) I	(6) —	(6) Steering Wheel Air Bag Stage 2 High Control	(6) 6	(6) 0.35	(6) OG / GN	(6) 3023	(6) III	(6) —
(7) 7	(7) 0.35	(7) BN / BU	(7) 4892	(7) I	(7) —	(7) Auxiliary Battery Relay Control	(7) 7	(7) 0.35	(7) BN / BU	(7) 4892	(7) III	(7) —
(8) 8	(8) —	(8) —	(8) —	(8) —	(8) —	(8) Unused	(8) 8	(8) 0.35	(8) YE / WH	(8) 900	(8) III	(8) —
(9) 9	(9) —	(9) —	(9) —	(9) —	(9) —	(9) Unused	(9) 9	(9) 0.35	(9) YE / BK	(9) 901	(9) III	(9) —
(10) 10	(10) —	(10) —	(10) —	(10) —	(10) —	(10) Unused	(10) 10	(10) 0.35	(10) YE / BU	(10) 902	(10) III	(10) —
11 - 12	—	—	—	—	—	Not Occupied	11 - 12	—	—	—	—	—
(13) 13	(13) 0.35	(13) BN / BK	(13) 3552	(13) I	(13) —	(13) Interior Passive Entry Antenna 1 High Signal	(13) 13	(13) 0.35	(13) BN / 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) —

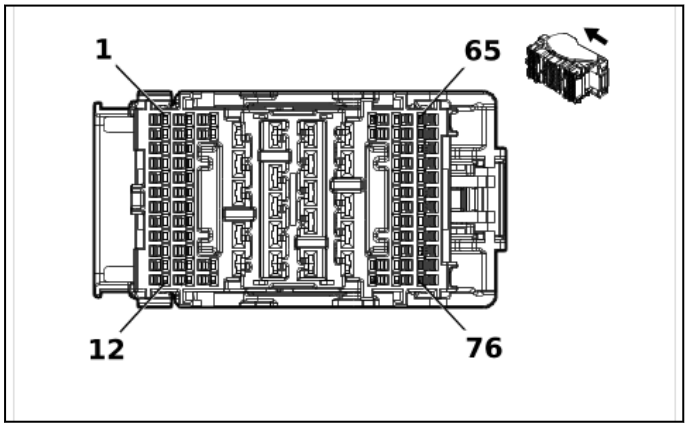
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(16) 16	(16) 0.35	(16) BU / VT	(16) 41 01	(16) I	(16) —	(16) AUTOSAR CAN Bus [+] 4 Serial Data	(16) 16	(16) 0.5	(16) BU / VT	(16) 41 01	(16) III	(16) —
(17) 17	(17) 0.35	(17) WH	(17) 49 76	(17) I	(17) —	(17) AUTOSAR CAN Bus [-] 3 Serial Data	(17) 17	(17) 0.5	(17) WH	(17) 49 76	(17) III	(17) —
(18) 18	(18) 0.35	(18) BU / BK	(18) 49 77	(18) I	(18) —	(18) AUTOSAR CAN Bus [+] 3 Serial Data	(18) 18	(18) 0.5	(18) BU / BK	(18) 49 77	(18) III	(18) —
(19) 19	(19) 0.5	(19) RD / GN	(19) 77 40	(19) I	(19) —	(19) Battery Positive Voltage	(19) 19	(19) 0.5	(19) RD / GN	(19) 77 40	(19) III	(19) —
20	—	—	—	—	—	Not Occupied	20	—	—	—	—	—
(21) 21	(21) 0.35	(21) BU / YE	(21) 49 84	(21) I	(21) —	(21) AUTOSAR CAN Bus [-] 5 Serial Data	(21) 21	(21) 0.5	(21) BU / YE	(21) 49 84	(21) III	(21) —
(22) 22	(22) 0.35	(22) BU / WH	(22) 49 85	(22) I	(22) —	(22) AUTOSAR CAN Bus [+] 5 Serial Data	(22) 22	(22) 0.5	(22) BU / WH	(22) 49 85	(22) III	(22) —
(23) 23	(23) 0.35	(23) WH	(23) 49 86	(23) I	(23) —	(23) AUTOSAR CAN Bus [-] 1 Serial Data	(23) 23	(23) 0.5	(23) WH	(23) 49 86	(23) III	(23) —
(24) 24	(24) 0.35	(24) BU	(24) 49 87	(24) I	(24) —	(24) AUTOSAR CAN Bus [+] 1 Serial Data	(24) 24	(24) 0.5	(24) BU	(24) 49 87	(24) III	(24) —
25 - 26	—	—	—	—	—	Not Occupied	25 - 26	—	—	—	—	—
(27) 27	(27) 0.35	(27) BN / BK	(27) 49 96	(27) I	(27) —	(27) Immobilizer Antenna Signal [+]	(27) 27	(27) 0.35	(27) BN / BK	(27) 49 96	(27) III	(27) —
(28) 28	(28) 0.35	(28) WH / GY	(28) 49 97	(28) I	(28) —	(28) Immobilizer Antenna Low Signal	(28) 28	(28) 0.35	(28) WH / GY	(28) 49 97	(28) III	(28) —
(29) 29	(29) 2.5	(29) RD / BN	(29) 41 42	(29) II	(29) —	(29) Primary Fused Battery Positive Voltage	(29) 29	(29) 2.5	(29) RD / BN	(29) 41 42	(29) IV	(29) —
(30) 30	(30) 0.35	(30) GY	(30) 17 15	(30) II	(30) —	(30) Windshield Wiper Switch High Signal	(30) 30	(30) 0.35	(30) GY	(30) 17 15	(30) IV	(30) —
(31) 31	(31) 0.5	(31) GN / YE	(31) 27 31	(31) II	(31) —	(31) Brake System Control Module LIN Bus 1	(31) 31	(31) 0.5	(31) GN / YE	(31) 27 31	(31) IV	(31) —
(32) 32	(32) 0.35	(32) BU	(32) 49 87	(32) II	(32) —	(32) AUTOSAR CAN Bus [+] 1 Serial Data	(32) 32	(32) 0.5	(32) BU	(32) 49 87	(32) IV	(32) —
(33) 33	(33) 0.35	(33) WH	(33) 49 86	(33) II	(33) —	(33) AUTOSAR CAN Bus [-] 1 Serial Data	(33) 33	(33) 0.5	(33) WH	(33) 49 86	(33) IV	(33) —
34	—	—	—	—	—	Not Occupied	34	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(35) 35	(35) 0.75	(35) GN / BK	(35) 116	(35) II	(35) —	(35) Left Rear Speaker [-] Control	(35) 35	(35) 0.75	(35) GN / BK	(35) 116	(35) IV	(35) —
(36) 36	(36) 0.75	(36) GN	(36) 199	(36) II	(36) —	(36) Left Rear Speaker [+] Control	(36) 36	(36) 0.75	(36) GN	(36) 199	(36) IV	(36) —
(37) 37	(37) 0.75	(37) BN / BU	(37) 118	(37) II	(37) —	(37) Left Front Speaker [-] Control 1	(37) 37	(37) 0.75	(37) BN / BU	(37) 118	(37) IV	(37) —
(38) 38	(38) 0.75	(38) BU	(38) 201	(38) II	(38) —	(38) Left Front Speaker 1 [+] Control	(38) 38	(38) 0.75	(38) BU	(38) 201	(38) IV	(38) —
39	—	—	—	—	—	Not Occupied	39	—	—	—	—	—
(40) 40	(40) 0.35	(40) BU / WH	(40) 3119	(40) II	(40) —	(40) Roof Rail Air Bag Disable Switch Signal	(40) 40	(40) 0.35	(40) BU / WH	(40) 3119	(40) IV	(40) —
(41) 41	(41) 0.35	(41) BN / WH	(41) 3895	(41) II	(41) —	(41) Roof Rail Air Bag Disable Switch Low Reference	(41) 41	(41) 0.35	(41) BN / WH	(41) 3895	(41) IV	(41) —
42 - 44	—	—	—	—	—	Not Occupied	42 - 44	—	—	—	—	—
(45) 45	(45) 0.35	(45) GN / VT	(45) 4786	(45) II	(45) —	(45) Dome/ Reading Lamp Enable Signal	(45) 45	(45) 0.5	(45) GN / VT	(45) 4786	(45) IV	(45) —
(46) 46	(46) 0.35	(46) GN / BN	(46) 507	(46) II	(46) —	(46) Wait To Start Indicator Control	(46) 46	(46) 0.35	(46) GN / BN	(46) 507	(46) IV	(46) —
47	—	—	—	—	—	Not Occupied	47	—	—	—	—	—
(48) 48	(48) 0.5	(48) YE / VT	(48) 6191	(48) II	(48) —	(48) Power Rear Window Switch Open Signal	(48) 48	(48) 0.5	(48) YE / VT	(48) 6191	(48) IV	(48) —
(49) 49	(49) 0.5	(49) WH	(49) 6192	(49) I	(49) —	(49) Sliding Rear Window Switch Close Signal	(49) 49	(49) 0.5	(49) WH	(49) 6192	(49) III	(49) —
(50) 50	(50) 0.5	(50) YE	(50) 6817	(50) I	(50) —	(50) LED Backlight Dimming Control 1	(50) 50	(50) 0.5	(50) YE	(50) 6817	(50) III	(50) —
(51) 51	(51) 0.35	(51) WH / GY	(51) 7297	(51) I	(51) —	(51) Minor Endgate High Relay Control	(51) 51	(51) 0.75	(51) WH / GY	(51) 7297	(51) III	(51) —
52	—	—	—	—	—	Not Occupied	52	—	—	—	—	—
(53) 53	(53) 0.5	(53) RD / VT	(53) 7140	(53) I	(53) —	(53) Battery Positive Voltage	(53) 53	(53) 0.5	(53) RD / VT	(53) 7140	(53) III	(53) —
(54) 54	(54) 0.35	(54) WH / GN	(54) 7728	(54) I	(54) —	(54) Major Endgate High Relay Control	(54) 54	(54) 0.75	(54) WH / GN	(54) 7728	(54) III	(54) —

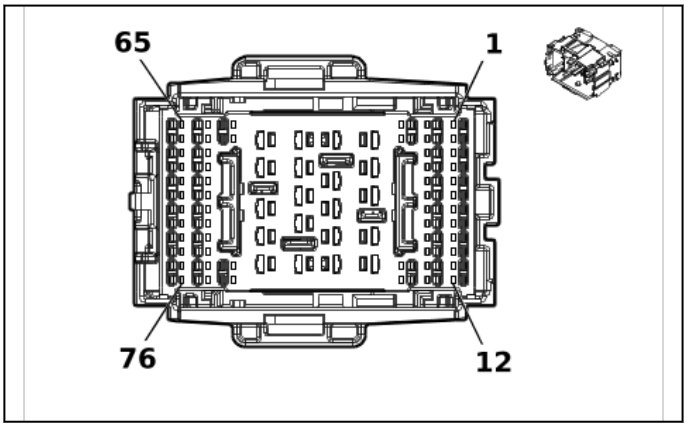
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(55) 55	(55) 0.35	(55) BU / VT	(55) 77 29	(55) I	(55) —	(55) Major Endgate Low Relay Control	(55) 55	(55) 0.75	(55) BU / VT	(55) 77 29	(55) III	(55) —
(56) 56	(56) 0.5	(56) VT	(56) 80 1	(56) I	(56) —	(56) Retained Accessory Power Control	(56) 56	(56) 0.35	(56) VT	(56) 80 1	(56) III	(56) —
(57) 57	(57) 0.5	(57) BN / YE	(57) 82 0	(57) I	(57) —	(57) Center High Mounted Stop Lamp Supply Voltage	(57) 57	(57) 0.5	(57) BN / YE	(57) 82 0	(57) III	(57) —
(58) 58	(58) 0.35	(58) GN / BU	(58) 27 33	(58) I	(58) —	(58) Brake System Control Module LIN Bus 2	(58) 58	(58) 0.5	(58) GN / BU	(58) 27 33	(58) III	(58) —
(59) 59	(59) 0.5	(59) RD / VT	(59) 26 40	(59) I	(59) —	(59) Battery Positive Voltage	(59) 59	(59) 0.5	(59) RD / VT	(59) 26 40	(59) III	(59) —
(60) 60	(60) 0.35	(60) BU / YE	(60) 49 84	(60) I	(60) —	(60) AUTOSAR CAN Bus [-] 5 Serial Data	(60) 60	(60) 0.5	(60) BU / YE	(60) 49 84	(60) III	(60) —
(61) 61	(61) 0.35	(61) BU / WH	(61) 49 85	(61) I	(61) —	(61) AUTOSAR CAN Bus [+] 5 Serial Data	(61) 61	(61) 0.5	(61) BU / WH	(61) 49 85	(61) III	(61) —
(62) 62	(62) 0.35	(62) YE	(62) 10 280	(62) I	(62) —	(62) Private Steering Angle CAN Bus [+] Serial Data	(62) 62	(62) 0.35	(62) YE	(62) 10 280	(62) III	(62) —
(63) 63	(63) 0.35	(63) BU / WH	(63) 10 279	(63) I	(63) —	(63) Private Steering Angle CAN Bus [-] Serial Data	(63) 63	(63) 0.35	(63) BU / WH	(63) 10 279	(63) III	(63) —
(64) 64	(64) 0.35	(64) GN / BN	(64) 20 87	(64) I	(64) —	(64) Multi-axis Acceleration Sensor Supply Voltage	(64) 64	(64) 0.35	(64) GN / BN	(64) 20 87	(64) III	(64) —
(65) 65	(65) 0.35	(65) GN / GY	(65) 81 7	(65) I	(65) —	(65) Vehicle Speed Signal	(65) 65	(65) 0.35	(65) GN / 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) RD / YE	(67) 23 40	(67) I	(67) —	(67) Battery Positive Voltage	(67) 67	(67) 0.5	(67) RD / 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) GN / WH	(69) 28 54	(69) I	(69) —	(69) Body Control Module LIN Bus 8	(69) 69	(69) 0.35	(69) GN / WH	(69) 28 54	(69) III	(69) —
(70) 70	(70) 0.5	(70) BU / BN	(70) 68 07	(70) I	(70) —	(70) DC/AC Inverter Control	(70) 70	(70) 0.5	(70) BU / BN	(70) 68 07	(70) III	(70) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(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	—	—	—	—	—	Not Occupied	72	—	—	—	—	—
(73) 73	(73) 0.5	(73) B N / GN	(73) 42 46	(73) I	(73) —	(73) Identification Lamp Control	(73) 73	(73) 0.5	(73) B N / GN	(73) 42 46	(73) III	(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

X211 Instrument Panel Wiring Harness to Body Wiring Harness

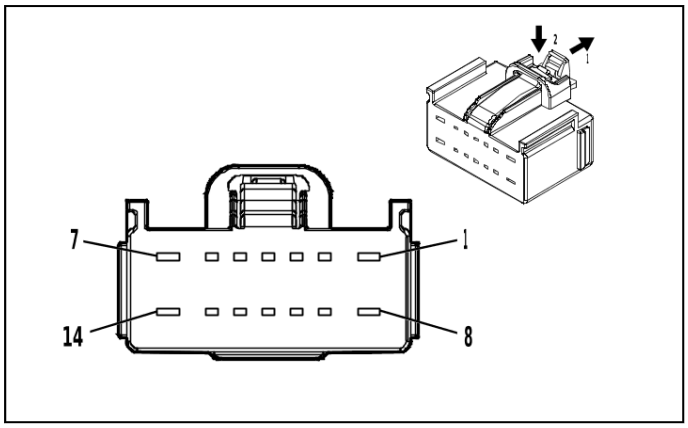
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / BK	(1) 339	(1) I	(1) —	(1) Run/ Crank Ignition 1 Voltage	(1) 1	(1) 0.5	(1) VT / BK	(1) 339	(1) III	(1) —
(2) 2	(2) 0.35	(2) BU / VT	(2) 807	(2) I	(2) —	(2) Ignition Off/Accessory 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) GN / WH	(4) 24	(4) I	(4) —	(4) Backup Lamp Control	(4) 4	(4) 0.5	(4) GN / WH	(4) 24	(4) III	(4) —
(5) 5	(5) 0.35	(5) OG / WH	(5) 3024	(5) I	(5) —	(5) Passenger Instrument Panel Air Bag Stage 1 Low Control	(5) 5	(5) 0.35	(5) OG / WH	(5) 3024	(5) III	(5) —
(6) 6	(6) 0.35	(6) YE / OG	(6) 3025	(6) I	(6) —	(6) Passenger Instrument Panel Air Bag Stage 1 High Control	(6) 6	(6) 0.35	(6) YE / OG	(6) 3025	(6) III	(6) —
(7) 7	(7) 0.35	(7) OG / VT	(7) 3026	(7) I	(7) —	(7) Passenger Instrument Panel Air Bag Stage 2 Low Control	(7) 7	(7) 0.35	(7) OG / 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	—	—	—	—	—	Not Occupied	9	—	—	—	—	—
(10) 10	(10) 0.35	(10) YE	(10) 7115	(10) I	(10) —	(10) Rear Axle Differential Lock Indicator Control	(10) 10	(10) 0.35	(10) YE	(10) 7115	(10) III	(10) —
(11) 11	(11) 0.35	(11) YE / GN	(11) 7122	(11) I	(11) —	(11) Axle Differential Lock Switch Signal	(11) 11	(11) 0.35	(11) YE / GN	(11) 7122	(11) III	(11) —
12 - 15	—	—	—	—	—	Not Occupied	12 - 15	—	—	—	—	—
(16) 16	(16) 0.35	(16) GN / BN	(16) 3005	(16) I	(16) —	(16) Active Noise Cancellation Microphone 1 Signal	(16) 16	(16) 0.35	(16) GN / BN	(16) 3005	(16) III	(16) —
(17) 17	(17) 0.35	(17) GN / BK	(17) 3008	(17) I	(17) —	(17) Active Noise Cancellation Microphone 1 Feedback Signal	(17) 17	(17) 0.35	(17) GN / BK	(17) 3008	(17) III	(17) —
18 - 24	—	—	—	—	—	Not Occupied	18 - 24	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(25) 25	(25) 0.35	(25) B U	(25) 49 87	(25) I	(25) —	(25) AUTOSA R CAN Bus [+] 1 Serial Data	(25) 25	(25) 0.5	(25) B U	(25) 49 87	(25) III	(25) —
(26) 26	(26) 0.35	(26) WH	(26) 49 86	(26) I	(26) —	(26) AUTOSA R CAN Bus [-] 1 Serial Data	(26) 26	(26) 0.5	(26) WH	(26) 49 86	(26) III	(26) —
27 - 28	—	—	—	—	—	Not Occupied	27 - 28	—	—	—	—	—
(29) 29	(29) 1	(29) G N / YE	(29) 68 40	(29) II	(29) —	(29) Auxiliary Device 2 Switched Volt age	(29) 29	(29) 1	(29) G N / YE	(29) 68 40	(29) IV	(29) —
30 - 31	—	—	—	—	—	Not Occupied	30 - 31	—	—	—	—	—
(32) 32	(32) 0.5	(32) B U / BK	(32) 10 53	(32) II	(32) —	(32) Center High Mounted Stop Lamp Control 3	(32) 32	(32) 0.5	(32) B U / BK	(32) 10 53	(32) IV	(32) —
(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) —

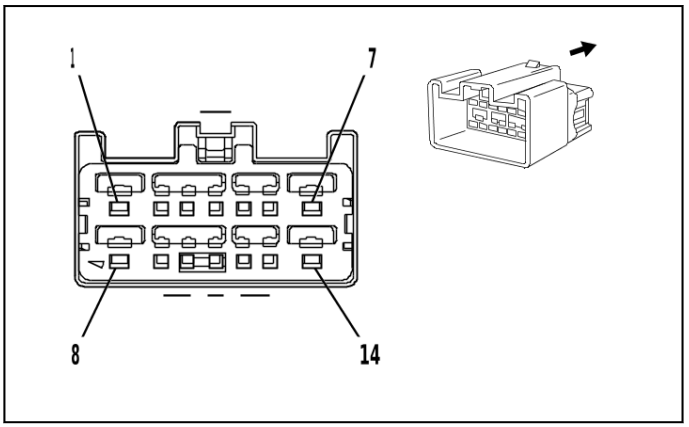
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(43) 43	(43) 0.75	(43) YE / WH	(43) 18 60	(43) II	(43) —	(43) Front Center Speaker [+] Control	(43) 43	(43) 0.75	(43) YE / WH	(43) 18 60	(43) IV	(43) —
(44) 44	(44) 0.75	(44) BU / YE	(44) 19 60	(44) II	(44) —	(44) Front Center Speaker [-] Control	(44) 44	(44) 0.75	(44) BU / YE	(44) 19 60	(44) IV	(44) —
(45) 45	(45) 0.75	(45) BU / VT	(45) 18 57	(45) II	(45) —	(45) Left Front Midrange Speaker [+] Control	(45) 45	(45) 0.75	(45) BU / VT	(45) 18 57	(45) IV	(45) —
(46) 46	(46) 0.75	(46) BU / BN	(46) 19 57	(46) II	(46) —	(46) Left Front Midrange Speaker [-] Control	(46) 46	(46) 0.75	(46) BU / BN	(46) 19 57	(46) IV	(46) —
(47) 47	(47) 2	(47) BU	(47) 47	(47) II	(47) —	(47) Trailer Auxiliary Control	(47) 47	(47) 2	(47) BU	(47) 47	(47) IV	(47) —
(48) 48	(48) 2.5	(48) BK / WH	(48) 10 51	(48) II	(48) —	(48) Signal Ground (48) Signal Ground	(48) 48	(48) 0.5 (48) 2.5	(48) BK / WH (48) BK / WH	(48) 10 51 (48) 10 51	(48) IV (48) IV	(48) D07-IOK/ D07-UQA- UQS (48) D07+ IOK+ UQA/ D07+ IOK+ UQS
(49) 49	(49) 0.35	(49) GN / WH	(49) 48 8	(49) I	(49) —	(49) Power Take-Off Control Switch Signal	(49) 49	(49) 0.5	(49) GN / WH	(49) 48 8	(49) III	(49) —
(50) 50	(50) 0.35	(50) BN / GN	(50) 43 11	(50) I	(50) —	(50) Power Take-Off Enable Cabin Switch Normally Closed Signal	(50) 50	(50) 0.5	(50) BN / GN	(50) 43 11	(50) III	(50) —
(51) 51	(51) 0.35 (51) 0.5	(51) BU / YE (51) BU / YE	(51) 49 79 (51) 49 79	(51) I (51) I	(51) GFF+ UEU (51) - GFF+ UEU	(51) AUTOSAR CAN Bus [+] 2 Serial Data (51) AUTOSAR CAN Bus [+] 2 Serial Data	(51) 51	(51) 0.5	(51) BU / YE	(51) 49 79	(51) III	(51) —
(52) 52	(52) 0.35 (52) 0.5	(52) WH (52) WH	(52) 49 78 (52) 49 78	(52) I (52) I	(52) GFF+ UEU (52) - GFF+ UEU	(52) AUTOSAR CAN Bus [-] 2 Serial Data (52) AUTOSAR CAN Bus [-] 2 Serial Data	(52) 52	(52) 0.5	(52) WH	(52) 49 78	(52) III	(52) —
53	—	—	—	—	—	Not Occupied	53	—	—	—	—	—
(54) 54	(54) 0.5	(54) GN / VT	(54) 51 99	(54) I	(54) —	(54) Run/ Crank Relay Coil Control	(54) 54	(54) 0.5	(54) GN / VT	(54) 51 99	(54) III	(54) —
55 - 59	—	—	—	—	—	Not Occupied	55 - 59	—	—	—	—	—
(60) 60	(60) 0.35	(60) YE / WH	(60) 16 90	(60) I	(60) —	(60) Mirror Dimming Signal	(60) 60	(60) 0.35	(60) YE / WH	(60) 16 90	(60) III	(60) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(61) 61	(61) 0.35	(61) BK / YE	(61) 1691	(61) I	(61) —	(61) Automatic Day/Night Mirror Low Reference	(61) 61	(61) 0.35	(61) BK / YE	(61) 1691	(61) III	(61) —
62 - 76	—	—	—	—	—	Not Occupied	62 - 76	—	—	—	—	—

X213 Auxiliary Fuse Block Wiring Harness to Instrument Panel Wiring Harness



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

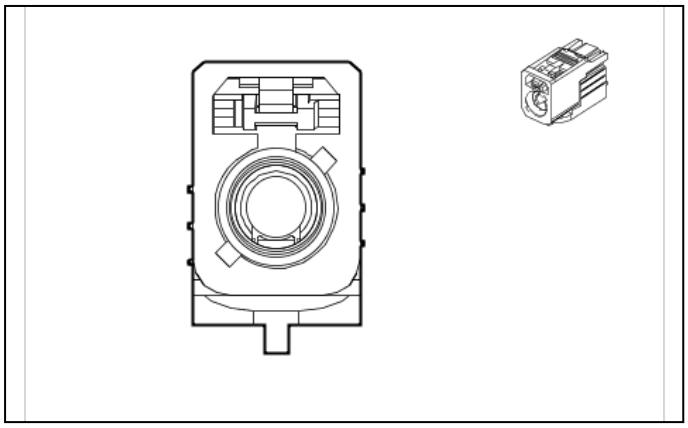
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required
III	13578907	J-35616-3 (GY)	J-38125-215A
IV	13578908	J-35616-5 (PU)	J-38125-11A

X213 Auxiliary Fuse Block Wiring Harness to Instrument Panel Wiring Harness

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) 1050	(1) II	(1) —	(1) Ground	(1) 1	(1) 2.5	(1) BK	(1) 1050	(1) IV	(1) —
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
(3) 3	(3) 0.35	(3) YE	(3) 6817	(3) I	(3) —	(3) LED Backlight Dimming Control 1	(3) 3	(3) 0.35	(3) YE	(3) 6817	(3) III	(3) —
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
(5) 5	(5) 0.5	(5) WH / BU	(5) 3691	(5) I	(5) —	(5) Trailer Brake Apply Signal	(5) 5	(5) 0.35	(5) WH / BU	(5) 3691	(5) III	(5) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 2.5	(7) RD / BN	(7) 4142	(7) II	(7) —	(7) Primary Fused Battery Positive Voltage	(7) 7	(7) 2.5	(7) RD / BN	(7) 4142	(7) IV	(7) —
(8) 8	(8) 2.5	(8) VT / BU	(8) 10735	(8) II	(8) —	(8) Upfitter Accessory 5 Supply Voltage	(8) 8	(8) 2.5	(8) VT / BU	(8) 10735	(8) IV	(8) —
(9) 9	(9) —	(9) —	(9) —	(9) —	(9) —	(9) Out of Park Signal	(9) 9	(9) 0.35	(9) YE	(9) 6812	(9) III	(9) —
(10) 10	(10) —	(10) —	(10) —	(10) —	(10) —	(10) Vehicle Speed Signal	(10) 10	(10) 0.35	(10) GN / GY	(10) 817	(10) III	(10) —
(11) 11	(11) 0.35	(11) WH	(11) 6816	(11) I	(11) —	(11) Indicator Dimming Control	(11) 11	(11) 0.35	(11) WH	(11) 6816	(11) III	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
(13) 13	(13) 0.5	(13) VT / BK	(13) 339	(13) I	(13) —	(13) Run/ Crank Ignition 1 Voltage	(13) 13	(13) 0.5	(13) VT / BK	(13) 339	(13) III	(13) —
(14) 14	(14) 2	(14) BU	(14) 47	(14) II	(14) —	(14) Trailer Auxiliary Control	(14) 14	(14) 2	(14) BU	(14) 47	(14) IV	(14) —

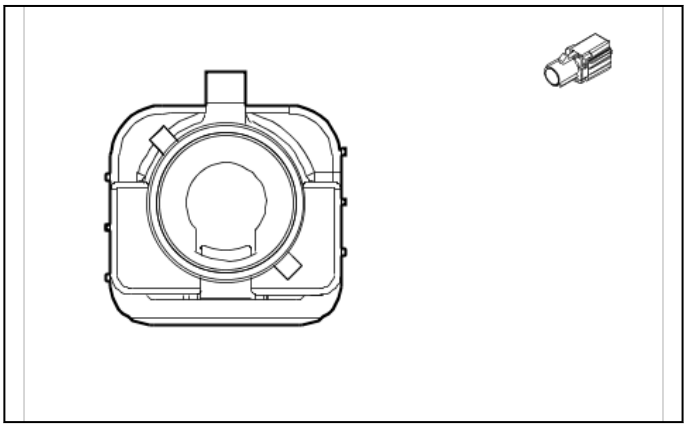
X217 Body Wiring Harness to Instrument Panel Wiring Harness



6267120

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)



5873701

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)

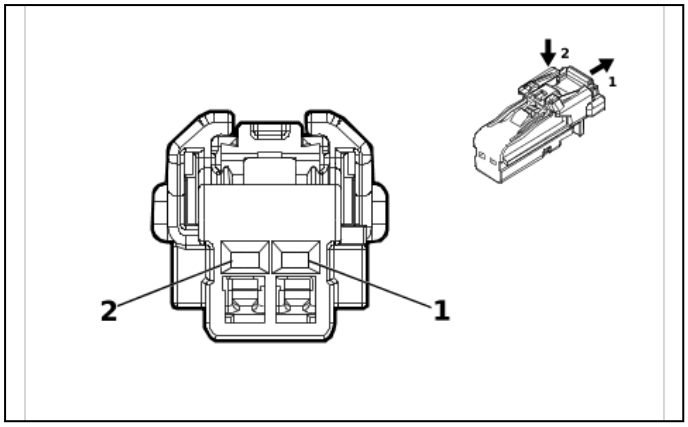
Terminal Part Information

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

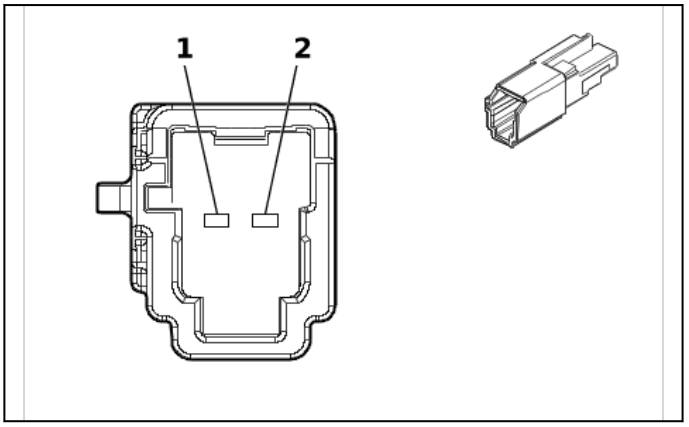
X217 Body Wiring Harness to Instrument Panel Wiring Harness

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



4115691



6529124

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)

Connector Part Information
- Harness Type: Body Wiring Harness
- OEM Connector: 6099-0610
- Service Connector: 85725003
- Description: 2-Way M 1.2 MBS Series(BK)

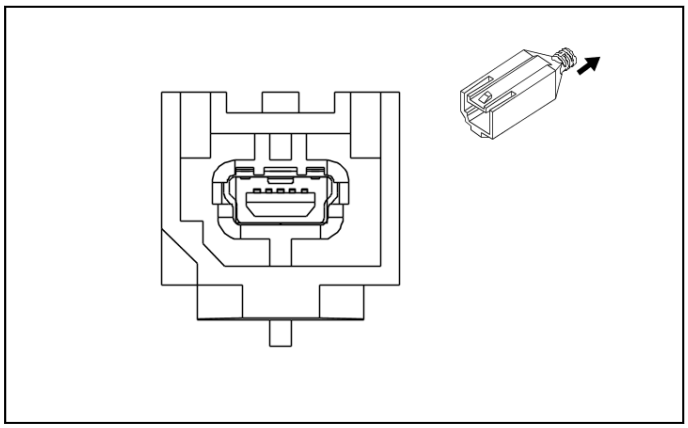
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Service by Cable	J-35616-12 (BU)	J-38125-553
II	Service by Cable	J-35616-13 (BU)	J-38125-553

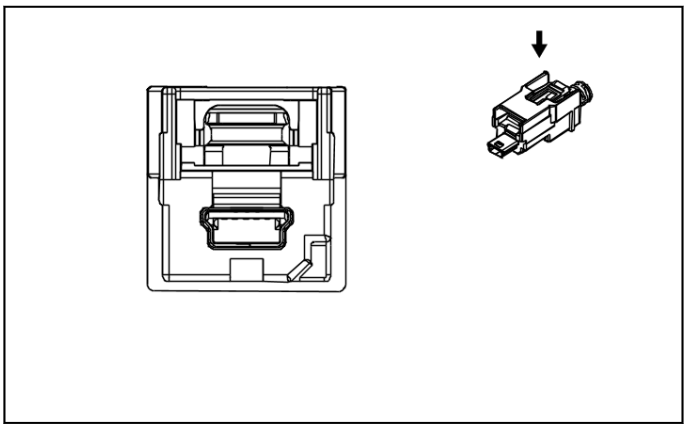
X218 Instrument Panel Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) GN	(1) 7214	(1) I	(1) —	(1) Ethernet Bus 6 [-]	(1) 1	(1) 0.35	(1) GN	(1) 7214	(1) II	(1) —
(2) 2	(2) 0.35	(2) YE	(2) 7215	(2) I	(2) —	(2) Ethernet Bus 6 [+]	(2) 2	(2) 0.35	(2) YE	(2) 7215	(2) II	(2) —

X226 Front Floor Console Wiring Harness to Instrument Panel Wiring Harness



3273655



2807425

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)

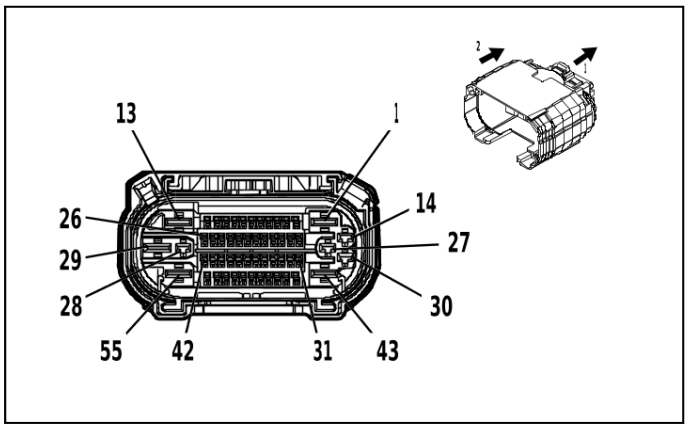
Terminal Part Information

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

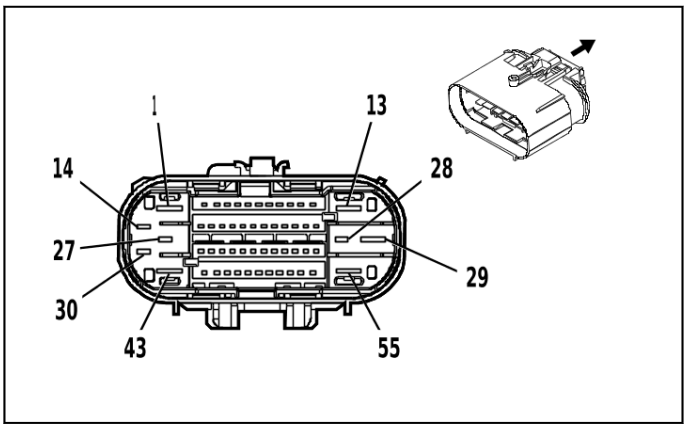
X226 Front Floor Console Wiring Harness to Instrument Panel Wiring Harness

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 (D07)



4992168



4993301

Connector Part Information
- Harness Type: Front Floor Console Wiring Harness
- OEM Connector: 13522700
- 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: 35605244
- 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

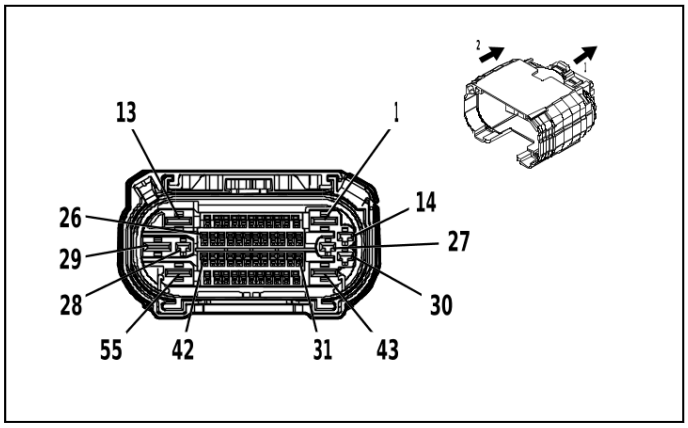
X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
(2) 2	(2) 1	(2) BK	(2) 9003	(2) II	(2) —	(2) Unused	(2) 2	(2) —	(2) —	(2) —	(2) —	(2) —
3 - 5	—	—	—	—	—	Not Occupied	3 - 5	—	—	—	—	—
(6) 6	(6) 0.5	(6) RD / VT	(6) 2640	(6) II	(6) —	(6) Battery Positive Voltage	(6) 6	(6) 0.5	(6) RD / VT	(6) 2640	(6) VI	(6) —
(7) 7	(7) 0.35	(7) GN / BU	(7) 2733	(7) I	(7) —	(7) Brake System Control Module LIN Bus 2	(7) 7	(7) 0.5	(7) GN / BU	(7) 2733	(7) VI	(7) —
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—
(9) 9	(9) 0.5	(9) RD / BU	(9) 1240	(9) II	(9) —	(9) Battery Positive Voltage	(9) 9	(9) 0.5	(9) RD / BU	(9) 1240	(9) VI	(9) —
(10) 10	(10) 0.35	(10) BN / BK	(10) 3552	(10) I	(10) —	(10) Interior Passive Entry Antenna 1 High Signal	(10) 10	(10) 0.35	(10) BN / BK	(10) 3552	(10) VI	(10) —
(11) 11	(11) 0.35	(11) WH	(11) 3553	(11) I	(11) —	(11) Interior Passive Entry Antenna 1 Low Signal	(11) 11	(11) 0.35	(11) WH	(11) 3553	(11) VI	(11) —
(12) 12	(12) 1	(12) BK	(12) 9003	(12) II	(12) —	(12) Unused	(12) 12	(12) —	(12) —	(12) —	(12) —	(12) —
13	—	—	—	—	—	Not Occupied	13	—	—	—	—	—
(14) 14	(14) 0.75	(14) BK	(14) 10117	(14) III	(14) —	(14) AC Outlet Phase A Control	(14) 14	(14) 0.75	(14) BK	(14) 10117	(14) VII	(14) —
15 - 21	—	—	—	—	—	Not Occupied	15 - 21	—	—	—	—	—
(22) 22	(22) 0.5	(22) BU / YE	(22) 4984	(22) II	(22) —	(22) AUTOSAR CAN Bus [-] 5 Serial Data	(22) 22	(22) 0.5	(22) BU / YE	(22) 4984	(22) VI	(22) —
(23) 23	(23) 0.5	(23) BU / WH	(23) 4985	(23) II	(23) —	(23) AUTOSAR CAN Bus [+] 5 Serial Data	(23) 23	(23) 0.5	(23) BU / WH	(23) 4985	(23) VI	(23) —

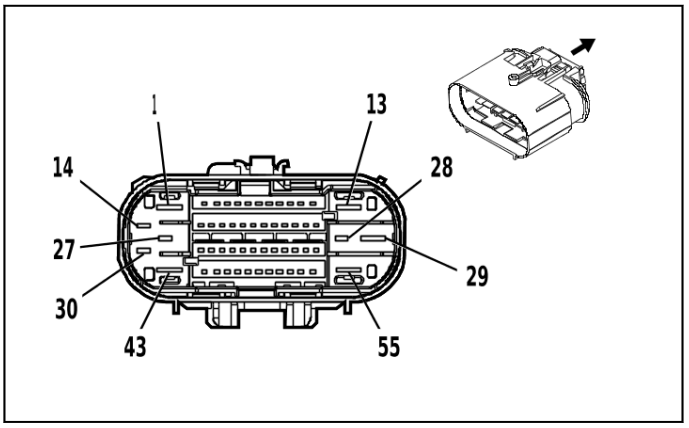
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(24) 24	(24) 0.5	(24) BU / YE	(24) 49 84	(24) II	(24) —	(24) AUTOSAR CAN Bus [-] 5 Serial Data	(24) 24	(24) 0.5	(24) BU / YE	(24) 49 84	(24) VI	(24) —
(25) 25	(25) 0.5	(25) BU / WH	(25) 49 85	(25) II	(25) —	(25) AUTOSAR CAN Bus [+] 5 Serial Data	(25) 25	(25) 0.5	(25) BU / WH	(25) 49 85	(25) VI	(25) —
(26) 26	(26) 0.5	(26) BK	(26) 13 50	(26) II	(26) —	(26) Ground	(26) 26	(26) 0.75	(26) BK	(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 - 29	—	—	—	—	—	Not Occupied	28 - 29	—	—	—	—	—
(30) 30	(30) 0.75	(30) RD	(30) 10 118	(30) III	(30) —	(30) AC Outlet Phase B Control	(30) 30	(30) 0.75	(30) RD	(30) 10 118	(30) VII	(30) —
31	—	—	—	—	—	Not Occupied	31	—	—	—	—	—
(32) 32	(32) 0.35	(32) BN / BK	(32) 49 96	(32) I	(32) —	(32) Immobilizer Antenna Signal [+]	(32) 32	(32) 0.35	(32) BN / 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 - 35	—	—	—	—	—	Not Occupied	34 - 35	—	—	—	—	—
(36) 36	(36) 0.5	(36) RD / YE	(36) 23 40	(36) II	(36) —	(36) Battery Positive Voltage	(36) 36	(36) 0.5	(36) RD / YE	(36) 23 40	(36) VI	(36) —
(37) 37	(37) 0.5	(37) GN / VT	(37) 28 57	(37) II	(37) —	(37) Body Control Module LIN Bus 11	(37) 37	(37) 0.35	(37) GN / VT	(37) 28 57	(37) VI	(37) —
(38) 38	(38) 0.5	(38) VT / RD	(38) 40 49	(38) II	(38) —	(38) AC Power Outlet Sensor High Reference	(38) 38	(38) 0.5	(38) VT / RD	(38) 40 49	(38) VI	(38) —
39 - 41	—	—	—	—	—	Not Occupied	39 - 41	—	—	—	—	—
(42) 42	(42) 0.5	(42) BU / BN	(42) 68 07	(42) II	(42) —	(42) DC/AC Inverter Control	(42) 42	(42) 0.5	(42) BU / BN	(42) 68 07	(42) VI	(42) —
(43) 43	(43) 0.5	(43) GN / VT	(43) 47 86	(43) IV	(43) —	(43) Dome/ Reading Lamp Enable Signal	(43) 43	(43) 0.5	(43) GN / VT	(43) 47 86	(43) V	(43) —
(44) 44	(44) 0.75	(44) YE	(44) 68 17	(44) II	(44) —	(44) LED Backlight Dimming Control 1	(44) 44	(44) 0.75	(44) YE	(44) 68 17	(44) VI	(44) —
45 - 46	—	—	—	—	—	Not Occupied	45 - 46	—	—	—	—	—
(47) 47	(47) 0.5	(47) BK	(47) 13 50	(47) II	(47) —	(47) Ground	(47) 47	(47) 0.75	(47) BK	(47) 13 50	(47) VI	(47) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(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 - 50	—	—	—	—	—	Not Occupied	49 - 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) Signal Ground	(52) 52	(52) 0.75 (52) 0.5	(52) B K / WH (52) B K / WH	(52) 10 51 (52) 10 51	(52) VI (52) VI	(52) UQS (52) - UQS
53	—	—	—	—	—	Not Occupied	53	—	—	—	—	—
(54) 54	(54) 1	(54) B K	(54) 90 03	(54) II	(54) —	(54) Unused	(54) 54	(54) —	(54) —	(54) —	(54) —	(54) —
55	—	—	—	—	—	Not Occupied	55	—	—	—	—	—

X227 Front Seat Wiring Harness - Center to Body Wiring Harness (AZ3)



4992168



4993301

Connector Part Information
- Harness Type: Front Seat Wiring Harness - Center
- OEM Connector: 13522700
- 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: 35605244
- Service Connector: 84727364
- Description: 55-Way M 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Terminal Part Information

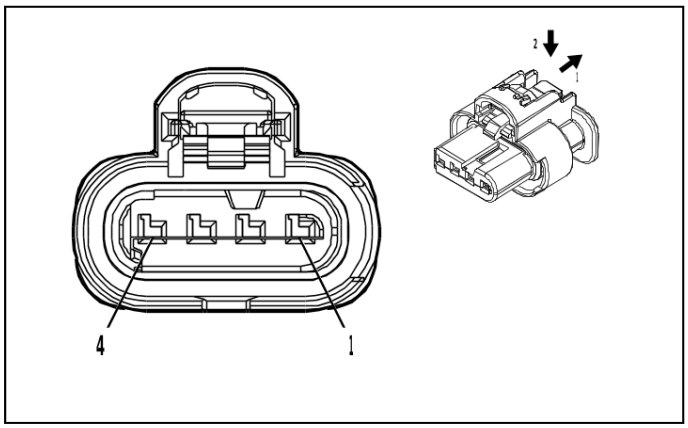
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-35 (VT)	No Tool Required
III	84867140	J-35616-13 (BU)	J-38125-215A
IV	84992391	J-35616-5 (PU)	J-38125-36

X227 Front Seat Wiring Harness - Center to Body Wiring Harness (AZ3)

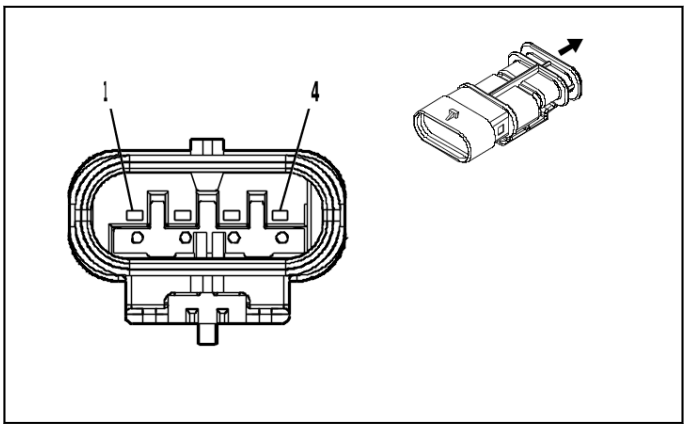
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 6	—	—	—	—	—	Not Occupied	1 - 6	—	—	—	—	—
(7) 7	(7) —	(7) —	(7) —	(7) —	(7) —	(7) Brake System Control Module LIN Bus 2	(7) 7	(7) 0.5	(7) GN / BU	(7) 2733	(7) III	(7) —
8 - 13	—	—	—	—	—	Not Occupied	8 - 13	—	—	—	—	—
(14) 14	(14) 0.75	(14) BK	(14) 10117	(14) II	(14) —	(14) AC Outlet Phase A Control	(14) 14	(14) 0.75	(14) BK	(14) 10117	(14) IV	(14) —
15	—	—	—	—	—	Not Occupied	15	—	—	—	—	—
(16) 16	(16) 0.35	(16) WH	(16) 4976	(16) I	(16) —	(16) AUTOSAR CAN Bus [-] 3 Serial Data	(16) 16	(16) —	(16) —	(16) —	(16) —	(16) —
(17) 17	(17) 0.35	(17) BU / BK	(17) 4977	(17) I	(17) —	(17) AUTOSAR CAN Bus [+] 3 Serial Data	(17) 17	(17) —	(17) —	(17) —	(17) —	(17) —
(18) 18	(18) 0.35	(18) WH	(18) 4976	(18) I	(18) —	(18) AUTOSAR CAN Bus [-] 3 Serial Data	(18) 18	(18) —	(18) —	(18) —	(18) —	(18) —
(19) 19	(19) 0.35	(19) BU / BK	(19) 4977	(19) I	(19) —	(19) AUTOSAR CAN Bus [+] 3 Serial Data	(19) 19	(19) —	(19) —	(19) —	(19) —	(19) —
20 - 21	—	—	—	—	—	Not Occupied	20 - 21	—	—	—	—	—
(22) 22	(22) 0.5	(22) BU / YE	(22) 4984	(22) I	(22) —	(22) AUTOSAR CAN Bus [-] 5 Serial Data	(22) 22	(22) —	(22) —	(22) —	(22) —	(22) —
(23) 23	(23) 0.5	(23) BU / WH	(23) 4985	(23) I	(23) —	(23) AUTOSAR CAN Bus [+] 5 Serial Data	(23) 23	(23) —	(23) —	(23) —	(23) —	(23) —
(24) 24	(24) 0.5	(24) BU / YE	(24) 4984	(24) I	(24) —	(24) AUTOSAR CAN Bus [-] 5 Serial Data	(24) 24	(24) —	(24) —	(24) —	(24) —	(24) —
(25) 25	(25) 0.5	(25) BU / WH	(25) 4985	(25) I	(25) —	(25) AUTOSAR CAN Bus [+] 5 Serial Data	(25) 25	(25) —	(25) —	(25) —	(25) —	(25) —
(26) 26	(26) 0.75	(26) BK	(26) 1050	(26) I	(26) —	(26) Ground	(26) 26	(26) 0.75	(26) BK	(26) 1350	(26) III	(26) —
(27) 27	(27) 0.35	(27) BK	(27) 10116	(27) II	(27) —	(27) AC Outlet Low Reference	(27) 27	(27) 0.5	(27) WH	(27) 10116	(27) IV	(27) —
28 - 29	—	—	—	—	—	Not Occupied	28 - 29	—	—	—	—	—
(30) 30	(30) 0.75	(30) RD	(30) 10118	(30) II	(30) —	(30) AC Outlet Phase B Control	(30) 30	(30) 0.75	(30) RD	(30) 10118	(30) IV	(30) —
31	—	—	—	—	—	Not Occupied	31	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(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) III	(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) III	(33) —
34 - 37	—	—	—	—	—	Not Occupied	34 - 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) III	(38) —
39	—	—	—	—	—	Not Occupied	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) —	(40) —	(40) —	(40) —	(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) III	(42) —
43	—	—	—	—	—	Not Occupied	43	—	—	—	—	—
(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) III	(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) —	(45) —	(45) —	(45) —	(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) —	(46) —	(46) —	(46) —	(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	(47) 13 50	(47) III	(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) III	(48) —
49 - 52	—	—	—	—	—	Not Occupied	49 - 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) —	(53) —	(53) —	(53) —	(53) —
54 - 55	—	—	—	—	—	Not Occupied	54 - 55	—	—	—	—	—

X237 Instrument Panel Wiring Harness to Instrument Panel Airbag Wiring Harness



4900699



5149228

Connector Part Information
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35053710
- 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)

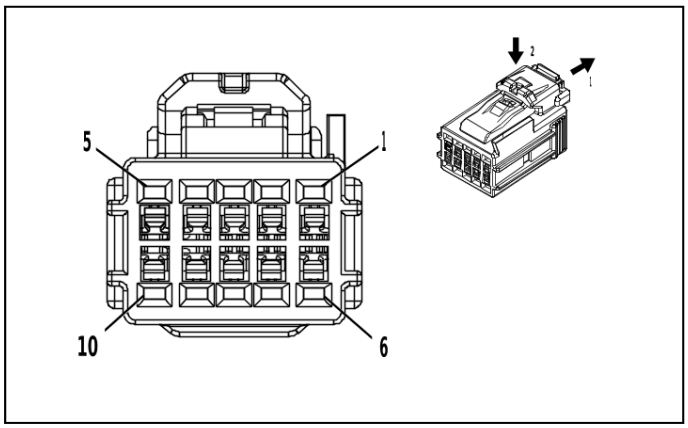
Terminal Part Information

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

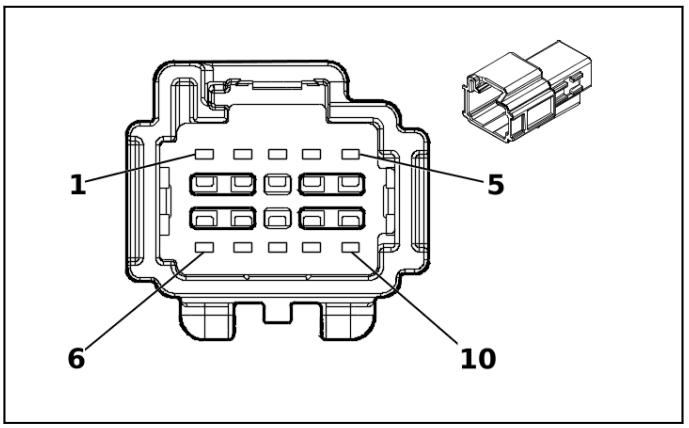
X237 Instrument Panel Wiring Harness to Instrument Panel Airbag Wiring Harness

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) 3025	(1) I	(1) —	(1) Passenger Instrument Panel Air Bag Stage 1 High Control	(1) 1	(1) 0.35	(1) YE / OG	(1) 3025	(1) II	(1) —
(2) 2	(2) 0.35	(2) OG / WH	(2) 3024	(2) I	(2) —	(2) Passenger Instrument Panel Air Bag Stage 1 Low Control	(2) 2	(2) 0.35	(2) OG / WH	(2) 3024	(2) II	(2) —
(3) 3	(3) 0.35	(3) GY / OG	(3) 3027	(3) I	(3) —	(3) Passenger Instrument Panel Air Bag Stage 2 High Control	(3) 3	(3) 0.35	(3) GY / OG	(3) 3027	(3) II	(3) —
(4) 4	(4) 0.35	(4) OG / VT	(4) 3026	(4) I	(4) —	(4) Passenger Instrument Panel Air Bag Stage 2 Low Control	(4) 4	(4) 0.35	(4) OG / VT	(4) 3026	(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)

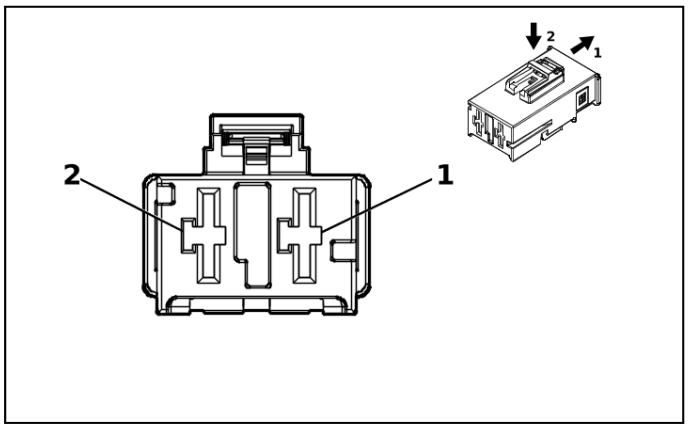
Terminal Part Information

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

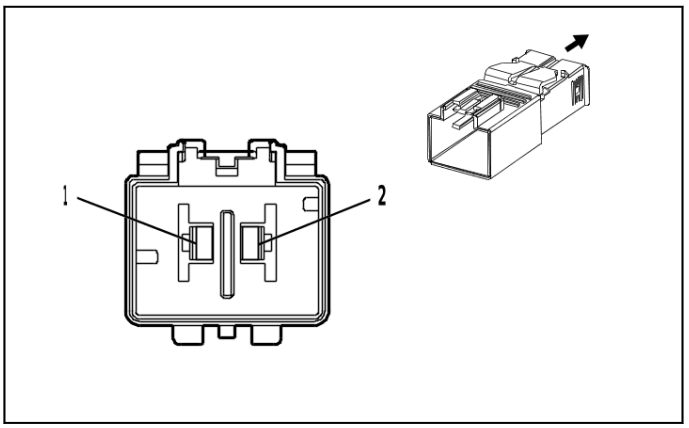
X250 Instrument Panel Wiring Harness to Heater Wiring Harness

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) 1050	(2) I	(2) —	(2) Ground	(2) 2	(2) 0.35	(2) BK	(2) 1050	(2) II	(2) —
3 - 4	—	—	—	—	—	Not Occupied	3 - 4	—	—	—	—	—
(5) 5	(5) 0.35	(5) GY	(5) 6137	(5) I	(5) —	(5) Air Conditioning Evaporator Temperature Sensor Signal	(5) 5	(5) 0.35	(5) BN	(5) 6137	(5) II	(5) —
(6) 6	(6) 0.35	(6) GN / VT	(6) 2852	(6) I	(6) —	(6) Body Control Module LIN Bus 6	(6) 6	(6) 0.35	(6) BU	(6) 2852	(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) WH / YE	(9) 4634	(9) I	(9) —	(9) HVAC Remote Enable Signal	(9) 9	(9) 0.35	(9) RD	(9) 4634	(9) II	(9) —
10	—	—	—	—	—	Not Occupied	10	—	—	—	—	—

X251 Air Heater Jumper Wiring Harness to Body Wiring Harness



5187955



4891120

Connector Part Information
- Harness Type: Air Heater Jumper Wiring Harness
- OEM Connector: 13525311
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 9.5 MCON-LL Series(BK)

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)

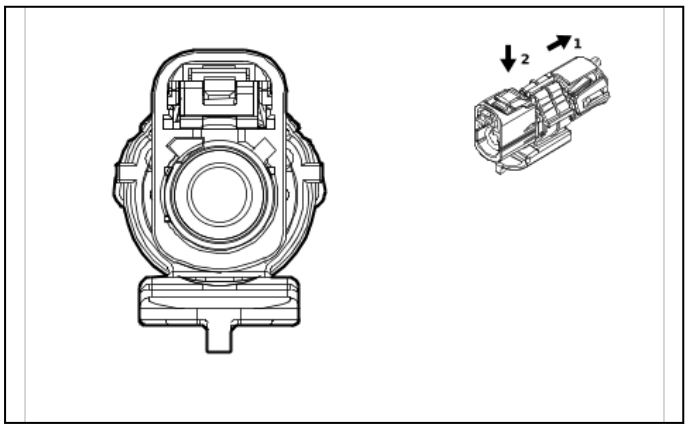
Terminal Part Information

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

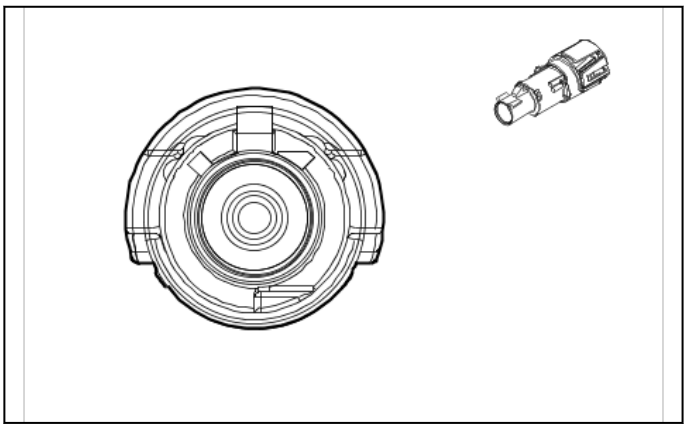
X251 Air Heater Jumper Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
(2) 2	(2) 10	(2) RD / GY	(2) 642	(2) I	(2) —	(2) Battery Positive Voltage	(2) 2	(2) 10	(2) RD / GY	(2) 642	(2) II	(2) —

X309A Body Wiring Harness to Inside Rearview Mirror Wiring Harness



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 COAX
- OEM Connector: 33355538
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way M Coax Type(BK)

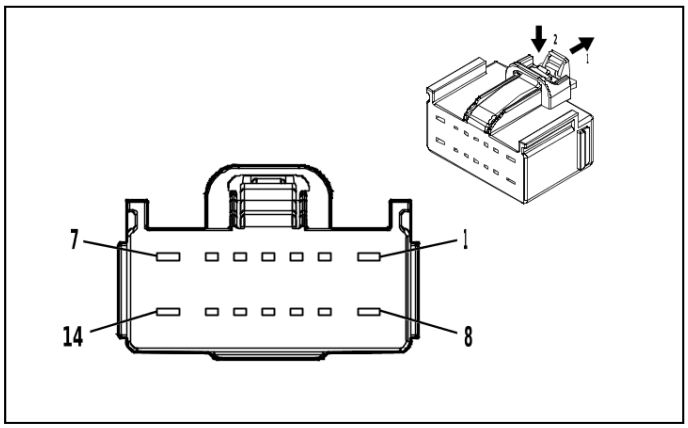
Terminal Part Information

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

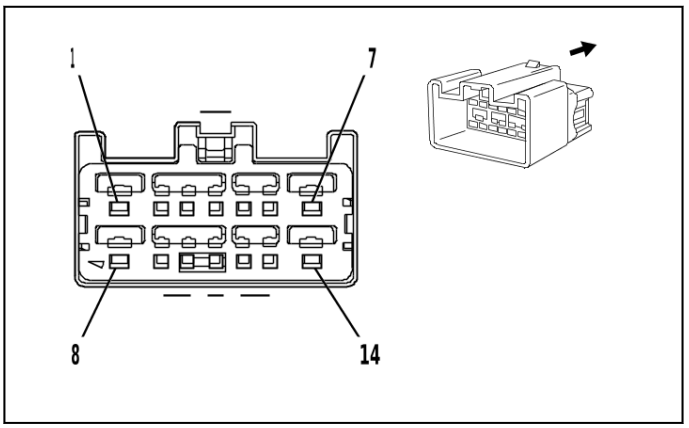
X309A Body Wiring Harness to Inside Rearview Mirror Wiring Harness

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

X324 Body Wiring Harness to Body Rear Wiring Harness Extension Harness



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

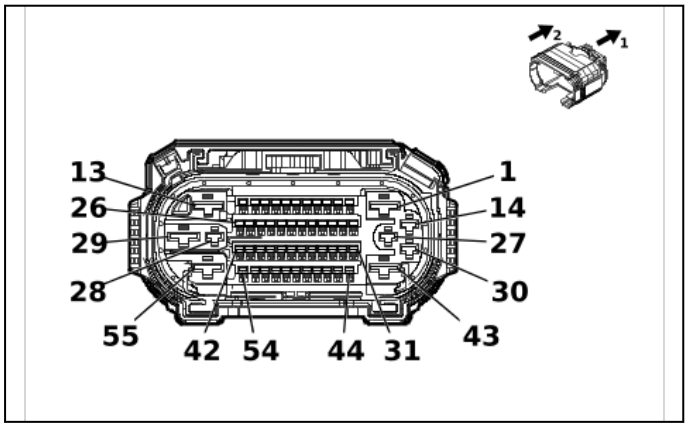
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575850	J-35616-2A (GY)	J-38125-557
II	84962855	J-35616-4A (PU)	J-38125-11A
III	Not required	J-35616-3 (GY)	No Tool Required
IV	Not required	J-35616-5 (PU)	No Tool Required

X324 Body Wiring Harness to Body Rear Wiring Harness Extension Harness

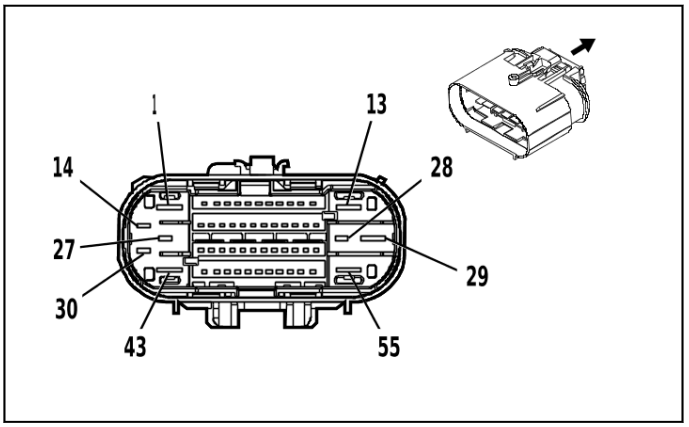
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BK	(1) 10117	(1) II	(1) —	(1) AC Outlet Phase A Control	(1) 1	(1) 0.75	(1) BK	(1) 10117	(1) IV	(1) —
(2) 2	(2) 0.5	(2) VT / RD	(2) 4049	(2) I	(2) —	(2) AC Power Outlet Sensor High Reference	(2) 2	(2) 0.5	(2) VT / RD	(2) 4049	(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) WH / GN	(4) 4628	(4) I	(4) —	(4) DC/AC Inverter Relay Control	(4) 4	(4) 0.5	(4) WH / GN	(4) 4628	(4) III	(4) —
(5) 5	(5) 0.5	(5) BU / BN	(5) 6807	(5) I	(5) —	(5) DC/AC Inverter Control	(5) 5	(5) 0.5	(5) BU / BN	(5) 6807	(5) III	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 0.75	(7) BK / WH	(7) 10120	(7) II	(7) —	(7) AC Outlet 2 Phase A Control	(7) 7	(7) 0.75	(7) BK / WH	(7) 10120	(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) 10118	(8) II	(8) —	(8) AC Outlet Phase B Control	(8) 8	(8) 0.75	(8) RD	(8) 10118	(8) IV	(8) —
(9) 9	(9) 0.35	(9) BARE	(9) 10116	(9) I	(9) —	(9) AC Outlet Low Reference	(9) 9	(9) 0.35	(9) BARE	(9) 10116	(9) III	(9) —
(10) 10	(10) 0.35	(10) GN / BU	(10) 6133	(10) I	(10) —	(10) Body Control Module LIN Bus 2	(10) 10	(10) 0.5	(10) GN / BU	(10) 6133	(10) III	(10) —
11	—	—	—	—	—	Not Occupied	11	—	—	—	—	—
(12) 12	(12) 0.5	(12) GN / BN	(12) 2266	(12) I	(12) —	(12) DC/AC Inverter Control 2	(12) 12	(12) 0.5	(12) GN / BN	(12) 2266	(12) III	(12) —
(13) 13	(13) 0.35	(13) BARE	(13) 10119	(13) I	(13) —	(13) AC Outlet 2 Low Reference	(13) 13	(13) 0.35	(13) BARE	(13) 10119	(13) III	(13) —
(14) 14	(14) 0.75	(14) RD / WH	(14) 10121	(14) II	(14) —	(14) AC Outlet 2 Phase B Control	(14) 14	(14) 0.75	(14) RD / WH	(14) 10121	(14) IV	(14) —

X331 Front Seat Wiring Harness - Driver to Body Wiring Harness



5823852



4993301

Connector Part Information
- Harness Type: Front Seat Wiring Harness - Driver_A45
- 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)

Connector Part Information
- Harness Type: Body Wiring Harness
- OEM Connector: 35601287
- Service Connector: 84727364
- Description: 55-Way M 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Terminal Part Information

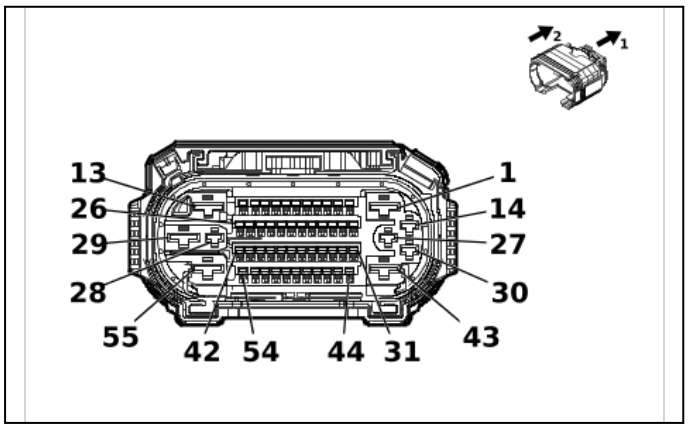
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-42 (RD)	No Tool Required
III	Not required	No Tool Required	No Tool Required
IV	84847992	J-35616-32 (OG)	J-38125-36
V	84867140	J-35616-13 (BU)	J-38125-215A

X331 Front Seat Wiring Harness - Driver to Body Wiring Harness

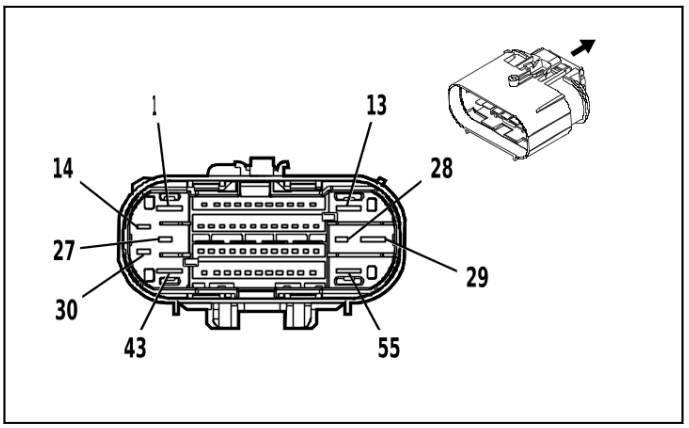
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BK	(1) 1550	(1) II	(1) —	(1) Ground	(1) 1	(1) 2.5	(1) BK	(1) 1550	(1) IV	(1) —
2 - 3	—	—	—	—	—	Not Occupied	2 - 3	—	—	—	—	—
(4) 4	(4) 0.75 (4) 0.5	(4) RD / BN (4) RD / BN	(4) 2240 (4) 2240	(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) 2240	(4) V	(4) —
(5) 5	(5) 0.35	(5) GN / WH	(5) 7530	(5) I	(5) —	(5) Driver Seat Adjuster Memory Module LIN Bus 1	(5) 5	(5) —	(5) —	(5) —	(5) —	(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) 2077	(15) I	(15) —	(15) Driver Seat Heating Element Control	(15) 15	(15) 0.75	(15) BN / VT	(15) 2077	(15) V	(15) —
(16) 16	(16) 0.75	(16) BN / BK	(16) 2078	(16) I	(16) —	(16) Driver Seat Heating Element Low Reference	(16) 16	(16) 0.75	(16) BN / BK	(16) 2078	(16) V	(16) —
(17) 17	(17) 0.5	(17) YE / GY	(17) 2079	(17) I	(17) —	(17) Driver Seat Heating Temperature Sensor Signal	(17) 17	(17) 0.5	(17) YE / GY	(17) 2079	(17) V	(17) —
(18) 18	(18) 0.5	(18) BK / YE	(18) 2080	(18) I	(18) —	(18) Driver Heated Seat Thermistor Low Reference	(18) 18	(18) 0.5	(18) BK / YE	(18) 2080	(18) V	(18) —
(19) 19	(19) 0.5	(19) BU	(19) 2425	(19) I	(19) —	(19) Driver Seat Back Heating Temperature Sensor Signal	(19) 19	(19) 0.5	(19) BU	(19) 2425	(19) V	(19) —
(20) 20	(20) 0.75	(20) BN	(20) 2432	(20) I	(20) —	(20) Driver Seat Back Heating Element Control	(20) 20	(20) 0.75	(20) BN	(20) 2432	(20) V	(20) —
21 - 28	—	—	—	—	—	Not Occupied	21 - 28	—	—	—	—	—
(29) 29	(29) 2.5	(29) RD / YE	(29) 5040	(29) II	(29) —	(29) Battery Positive Voltage	(29) 29	(29) 2.5	(29) RD / YE	(29) 5040	(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) OG / GY	(31) 26 52	(31) I	(31) —	(31) Driver Seat Belt Sensor Signal	(31) 31	(31) 0.35	(31) OG / BN	(31) 23 8	(31) V	(31) —
(32) 32	(32) 0.5	(32) BK / OG	(32) 13 63	(32) I	(32) —	(32) Driver Seat Belt Switch Low Reference	(32) 32	(32) 0.5	(32) BK / OG	(32) 13 63	(32) V	(32) —
33	—	—	—	—	—	Not Occupied	33	—	—	—	—	—
(34) 34	(34) 0.5	(34) BK / OG	(34) 49 63	(34) III	(34) —	(34) Driver Seat Back Air Bag Low Control	(34) 34	(34) 0.5	(34) BK / OG	(34) 49 63	(34) V	(34) —
(35) 35	(35) 0.5	(35) OG / BU	(35) 49 62	(35) III	(35) —	(35) Driver Seat Back Air Bag High Control	(35) 35	(35) 0.5	(35) OG / BU	(35) 49 62	(35) V	(35) —
36 - 40	—	—	—	—	—	Not Occupied	36 - 40	—	—	—	—	—
(41) 41	(41) 0.35	(41) BU / VT	(41) 41 01	(41) I	(41) —	(41) AUTOSAR CAN Bus [+] 4 Serial Data	(41) 41	(41) 0.5	(41) BU / VT	(41) 41 01	(41) V	(41) —
(42) 42	(42) 0.35	(42) WH	(42) 41 00	(42) I	(42) —	(42) AUTOSAR 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) BU / VT	(50) 41 01	(50) I	(50) —	(50) AUTOSAR CAN Bus [+] 4 Serial Data	(50) 50	(50) 0.5	(50) BU / VT	(50) 41 01	(50) V	(50) —
(51) 51	(51) 0.35	(51) WH	(51) 41 00	(51) I	(51) —	(51) AUTOSAR CAN Bus [-] 4 Serial Data	(51) 51	(51) 0.5	(51) WH	(51) 41 00	(51) V	(51) —
(52) 52	(52) 0.5	(52) GN / VT	(52) 59 06	(52) I	(52) —	(52) Driver Seat Blower Motor Control 1	(52) 52	(52) 0.5	(52) GN / VT	(52) 59 06	(52) V	(52) —
(53) 53	(53) 0.75	(53) VT / WH	(53) 11 39	(53) I	(53) —	(53) Run/ Crank Ignition 1 Voltage	(53) 53	(53) 0.75	(53) VT / 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: 35592429
- 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

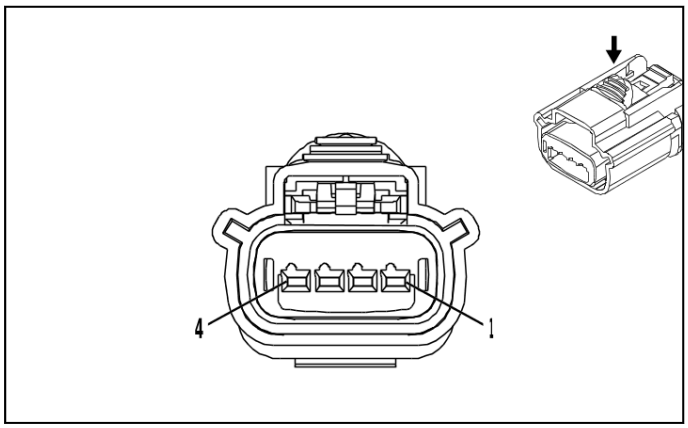
X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) BK	(1) 1350	(1) II	(1) A7K/ AVU/ KA1	(1) Ground	(1) 1	(1) 2.5	(1) BK	(1) 1350	(1) IV	(1) A7K/ AVU/ KA1
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) - AVU (4) AVU	(4) Battery Positive Voltage (4) Battery Positive Voltage	(4) 4	(4) 0.5	(4) RD / BN	(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	—	—	—	—	—
(7) 7	(7) 0.5	(7) BU	(7) 4987	(7) I	(7) —	(7) AUTOSAR CAN Bus [+] 1 Serial Data	(7) 7	(7) 0.5	(7) BU	(7) 4987	(7) V	(7) —

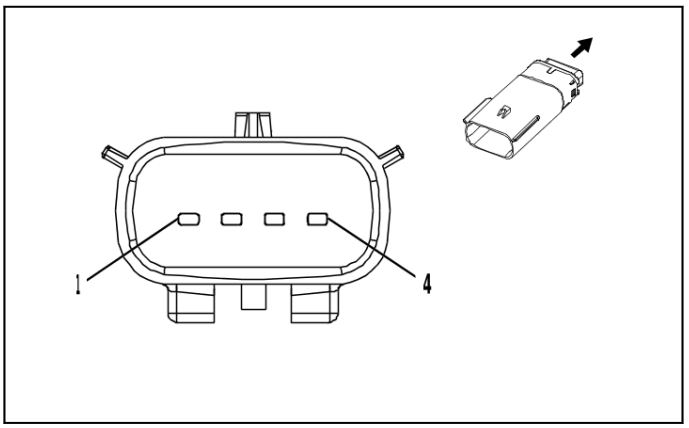
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(8) 8	(8) 0.5	(8) WH	(8) 4986	(8) I	(8) —	(8) AUTOSAR CAN Bus [-] 1 Serial Data	(8) 8	(8) 0.5	(8) WH	(8) 4986	(8) V	(8) —
9 - 14	—	—	—	—	—	Not Occupied	9 - 14	—	—	—	—	—
(15) 15	(15) 0.75	(15) BN / VT	(15) 2077	(15) I	(15) —	(15) Driver Seat Heating Element Control	(15) 15	(15) 0.75	(15) BN / VT	(15) 2077	(15) V	(15) —
(16) 16	(16) 0.75	(16) BN / BK	(16) 2078	(16) I	(16) —	(16) Driver Seat Heating Element Low Reference	(16) 16	(16) 0.75	(16) BN / BK	(16) 2078	(16) V	(16) —
(17) 17	(17) 0.5	(17) YE / GY	(17) 2079	(17) I	(17) —	(17) Driver Seat Heating Temperature Sensor Signal	(17) 17	(17) 0.5	(17) YE / GY	(17) 2079	(17) V	(17) —
(18) 18	(18) 0.5	(18) BK / YE	(18) 2080	(18) I	(18) —	(18) Driver Heated Seat Thermistor Low Reference	(18) 18	(18) 0.5	(18) BK / YE	(18) 2080	(18) V	(18) —
(19) 19	(19) 0.5	(19) BU	(19) 2425	(19) I	(19) —	(19) Driver Seat Back Heating Temperature Sensor Signal	(19) 19	(19) 0.5	(19) BU	(19) 2425	(19) V	(19) —
(20) 20	(20) 0.75	(20) BN	(20) 2432	(20) I	(20) —	(20) Driver Seat Back Heating Element Control	(20) 20	(20) 0.75	(20) BN	(20) 2432	(20) V	(20) —
(21) 21	(21) 0.5	(21) GN / VT	(21) 2857	(21) I	(21) —	(21) Body Control Module LIN Bus 11	(21) 21	(21) 0.35	(21) GN / VT	(21) 2857	(21) V	(21) —
22	—	—	—	—	—	Not Occupied	22	—	—	—	—	—
(23) 23	(23) 0.5	(23) RD / GN	(23) 4440	(23) I	(23) —	(23) Battery Positive Voltage	(23) 23	(23) 0.5	(23) RD / GN	(23) 4440	(23) V	(23) —
(24) 24	(24) 0.5	(24) GY / OG	(24) 3946	(24) I	(24) —	(24) Passenger Automatic Locking Retractor Switch Low Reference	(24) 24	(24) 0.35	(24) GY / OG	(24) 3946	(24) V	(24) —
(25) 25	(25) 0.5	(25) OG / BN	(25) 3947	(25) I	(25) —	(25) Passenger Automatic Locking Retractor Switch Signal	(25) 25	(25) 0.35	(25) OG / BN	(25) 3947	(25) V	(25) —
(26) 26	(26) 0.5	(26) BK / WH	(26) 1251	(26) I	(26) —	(26) Signal Ground	(26) 26	(26) 0.5	(26) BK / WH	(26) 1251	(26) V	(26) —
27 - 28	—	—	—	—	—	Not Occupied	27 - 28	—	—	—	—	—
(29) 29	(29) 2.5	(29) RD / YE	(29) 7440	(29) II	(29) —	(29) Battery Positive Voltage	(29) 29	(29) 2.5	(29) RD / YE	(29) 7440	(29) IV	(29) —
30	—	—	—	—	—	Not Occupied	30	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(31) 31	(31) 0.5	(31) OG / VT	(31) 13 62	(31) I	(31) —	(31) Passenger Seat Belt Switch Signal	(31) 31	(31) 0.35	(31) OG / VT	(31) 13 62	(31) V	(31) —
(32) 32	(32) 0.5	(32) BK / OG	(32) 13 63	(32) I	(32) —	(32) Driver Seat Belt Switch Low Reference	(32) 32	(32) 0.5	(32) BK / OG	(32) 13 63	(32) V	(32) —
33	—	—	—	—	—	Not Occupied	33	—	—	—	—	—
(34) 34	(34) 0.5	(34) BU / OG	(34) 49 57	(34) III	(34) —	(34) Passenger Seat Back Air Bag Low Control	(34) 34	(34) 0.5	(34) BU / OG	(34) 49 57	(34) V	(34) —
(35) 35	(35) 0.5	(35) OG / GY	(35) 49 56	(35) III	(35) —	(35) Passenger Seat Back Air Bag High Control	(35) 35	(35) 0.5	(35) OG / GY	(35) 49 56	(35) V	(35) —
(36) 36	(36) 0.5	(36) GN / VT	(36) 59 06	(36) I	(36) —	(36) Driver Seat Blower Motor Control 1	(36) 36	(36) 0.5	(36) GN / VT	(36) 59 06	(36) V	(36) —
(37) 37	(37) 0.75	(37) VT / WH	(37) 11 39	(37) I	(37) —	(37) Run/ Crank Ignition 1 Voltage	(37) 37	(37) 0.75	(37) VT / WH	(37) 11 39	(37) V	(37) —
38 - 40	—	—	—	—	—	Not Occupied	38 - 40	—	—	—	—	—
(41) 41	(41) 0.35	(41) BU / VT	(41) 41 01	(41) I	(41) —	(41) AUTOSAR CAN Bus [+] 4 Serial Data	(41) 41	(41) 0.5	(41) BU / VT	(41) 41 01	(41) V	(41) —
(42) 42	(42) 0.35	(42) WH	(42) 41 00	(42) I	(42) —	(42) AUTOSAR 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) BU / VT	(50) 41 01	(50) I	(50) —	(50) AUTOSAR CAN Bus [+] 4 Serial Data	(50) 50	(50) 0.5	(50) BU / VT	(50) 41 01	(50) V	(50) —
(51) 51	(51) 0.35	(51) WH	(51) 41 00	(51) I	(51) —	(51) AUTOSAR CAN Bus [-] 4 Serial Data	(51) 51	(51) 0.5	(51) WH	(51) 41 00	(51) V	(51) —
(52) 52	(52) 0.5	(52) BU	(52) 49 87	(52) I	(52) —	(52) AUTOSAR CAN Bus [+] 1 Serial Data	(52) 52	(52) 0.5	(52) BU	(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



4455251



2917338

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: 13526827
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.5 Series, Sealed(BK)

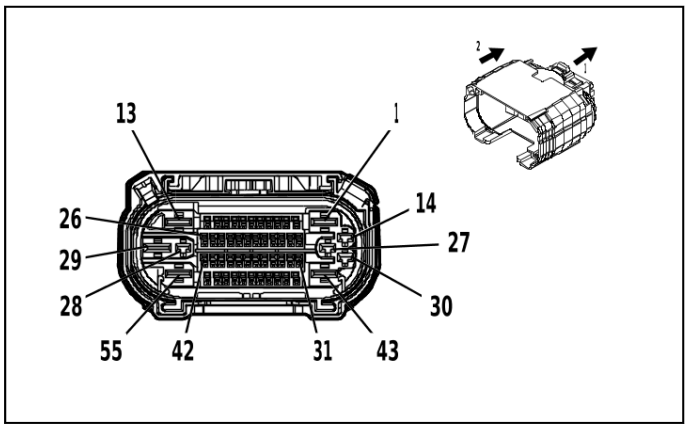
Terminal Part Information

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

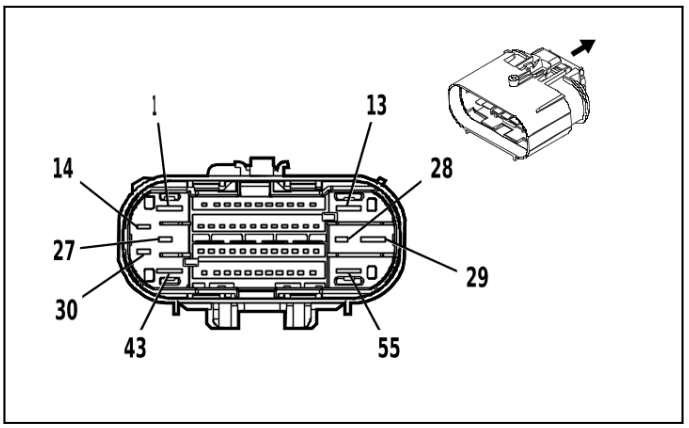
X340 Body Wiring Harness to Rear Seat Heater Control Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) RD / WH	(1) 5740	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.75	(1) RD / WH	(1) 5740	(1) II	(1) —
(2) 2	(2) 0.75	(2) RD / BU	(2) 6740	(2) I	(2) —	(2) Battery Positive Voltage	(2) 2	(2) 0.75	(2) RD / BU	(2) 6740	(2) II	(2) —
(3) 3	(3) 0.35	(3) GN / VT	(3) 2857	(3) I	(3) —	(3) Body Control Module LIN Bus 11	(3) 3	(3) 0.35	(3) GN / VT	(3) 2857	(3) II	(3) —
(4) 4	(4) 1	(4) BK	(4) 1550	(4) I	(4) —	(4) Ground	(4) 4	(4) 1	(4) BK	(4) 1550	(4) II	(4) —

X360 Chassis Wiring Harness to Fuel Pump Power Control Module Harness



4992168



4993301

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 35016652
- Service Connector: 19371185
- Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Connector Part Information
- Harness Type: Fuel Pump Power Control Module Harness
- OEM Connector: 35205173
- Service Connector: Service by Harness - See Part Catalog
- 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	J-35616-13 (BU)	No Tool Required
V	Not required	J-35616-32 (OG)	No Tool Required
VI	Not required	J-35616-34 (YE)	No Tool Required
VII	Not required	J-35616-5 (PU)	No Tool Required

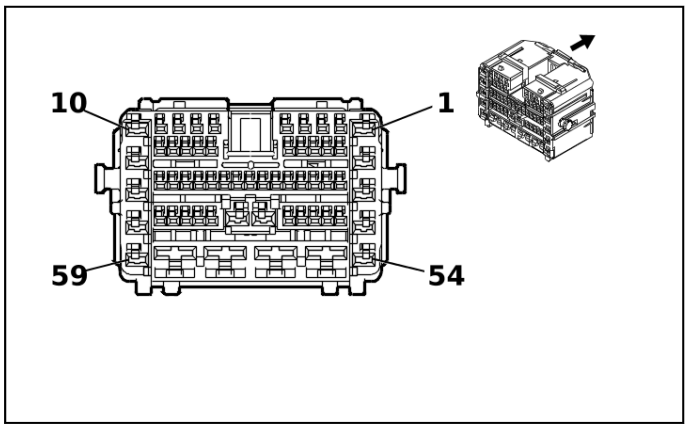
X360 Chassis Wiring Harness to Fuel Pump Power Control Module Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY	(1) 120	(1) III	(1) —	(1) Fuel Pump Control	(1) 1	(1) 2.5	(1) GY	(1) 120	(1) V	(1) —
(2) 2	(2) 0.75	(2) BU / GN	(2) 11437	(2) II	(2) —	(2) Secondary Fuel Pump Disable Signal	(2) 2	(2) 0.75	(2) BU / GN	(2) 11437	(2) VI	(2) —
3	—	—	—	—	—	Not Occupied	3	—	—	—	—	—
(4) 4	(4) 0.5	(4) BN / WH	(4) 7073	(4) II	(4) —	(4) Fuel Temperature Sensor 1 Low Reference	(4) 4	(4) 0.5	(4) BN / WH	(4) 7073	(4) IV	(4) —
5	—	—	—	—	—	Not Occupied	5	—	—	—	—	—
(6) 6	(6) 0.5	(6) VT / WH	(6) 639	(6) II	(6) —	(6) Run/ Crank Ignition 1 Voltage	(6) 6	(6) 0.5	(6) VT / WH	(6) 639	(6) IV	(6) —
7	—	—	—	—	—	Not Occupied	7	—	—	—	—	—

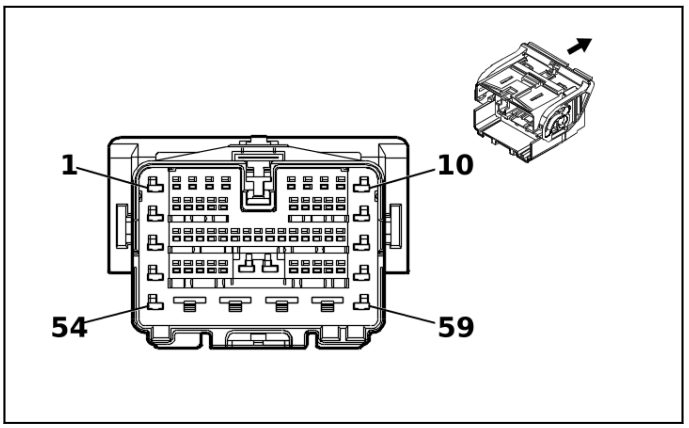
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(8) 8	(8) 0.5	(8) BN / GY	(8) 7072	(8) II	(8) —	(8) Fuel Temperature Sensor 1 Signal	(8) 8	(8) 0.5	(8) BN / GY	(8) 7072	(8) IV	(8) —
9	—	—	—	—	—	Not Occupied	9	—	—	—	—	—
(10) 10	(10) 0.5	(10) GN / GY	(10) 465	(10) II	(10) —	(10) Fuel Pump Primary Relay Control	(10) 10	(10) 0.5	(10) GN / GY	(10) 465	(10) IV	(10) —
11	—	—	—	—	—	Not Occupied	11	—	—	—	—	—
(12) 12	(12) 0.75	(12) BU / GN	(12) 1936	(12) II	(12) —	(12) Primary Fuel Level Sensor Signal	(12) 12	(12) 0.75	(12) BU / GN	(12) 1936	(12) VI	(12) —
(13) 13	(13) 1	(13) BK / GN	(13) 1580	(13) III	(13) —	(13) Fuel Pump Low Reference	(13) 13	(13) 0.75	(13) BK / GN	(13) 1580	(13) V	(13) —
(14) 14	(14) 2.5	(14) RD / VT	(14) 1940	(14) I	(14) —	(14) Battery Positive Voltage	(14) 14	(14) 2.5	(14) RD / VT	(14) 1940	(14) VII	(14) —
15	—	—	—	—	—	Not Occupied	15	—	—	—	—	—
(16) 16	(16) 0.5	(16) BU / WH	(16) 1937	(16) II	(16) —	(16) Secondary Fuel Level Sensor Signal	(16) 16	(16) 0.5	(16) BU / WH	(16) 1937	(16) IV	(16) —
17	—	—	—	—	—	Not Occupied	17	—	—	—	—	—
(18) 18	(18) 0.5	(18) BK / GN	(18) 6281	(18) II	(18) —	(18) Fuel Level Sensor Low Reference	(18) 18	(18) 0.5	(18) BK / GN	(18) 6281	(18) IV	(18) —
19	—	—	—	—	—	Not Occupied	19	—	—	—	—	—
(20) 20	(20) 0.5	(20) BK / BU	(20) 6282	(20) II	(20) —	(20) Fuel Level Sensor 2 Low Reference	(20) 20	(20) 0.5	(20) BK / BU	(20) 6282	(20) IV	(20) —
21	—	—	—	—	—	Not Occupied	21	—	—	—	—	—
(22) 22	(22) 0.5	(22) BU / YE	(22) 6861	(22) II	(22) —	(22) Water In Fuel Sensor Signal	(22) 22	(22) 0.5	(22) BU / YE	(22) 6861	(22) IV	(22) —
23	—	—	—	—	—	Not Occupied	23	—	—	—	—	—
(24) 24	(24) 0.5	(24) BK / BU	(24) 6863	(24) II	(24) —	(24) Water In Fuel Sensor Low Reference	(24) 24	(24) 0.5	(24) BK / BU	(24) 6863	(24) IV	(24) —
25	—	—	—	—	—	Not Occupied	25	—	—	—	—	—
(26) 26	(26) 0.5	(26) BN / RD	(26) 7445	(26) II	(26) —	(26) Fuel Line Pressure Sensor 5V Reference	(26) 26	(26) 0.5	(26) BN / RD	(26) 7445	(26) IV	(26) —
(27) 27	(27) 1	(27) BU / GN	(27) 2120	(27) I	(27) —	(27) Secondary Fuel Pump Control	(27) 27	(27) 1	(27) BU / GN	(27) 2120	(27) VII	(27) —
(28) 28	(28) 2.5	(28) YE / GY	(28) 4137	(28) I	(28) —	(28) Fuel Pump Supply Voltage Phase 2	(28) 28	(28) 2.5	(28) YE / GY	(28) 4137	(28) VII	(28) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(29) 29	(29) 0.75	(29) VT / GN	(29) 43 20	(29) III	(29) —	(29) Powertrain Sensor Bus Enable	(29) 29	(29) 0.75	(29) VT / GN	(29) 43 20	(29) V	(29) —
(30) 30	(30) 2.5	(30) WH / BN	(30) 41 38	(30) I	(30) —	(30) Fuel Pump Supply Voltage Phase 3	(30) 30	(30) 2.5	(30) WH / BN	(30) 41 38	(30) VII	(30) —
31 - 42	—	—	—	—	—	Not Occupied	31 - 42	—	—	—	—	—
(43) 43	(43) 2.5	(43) BK / WH	(43) 19 51	(43) III	(43) —	(43) Signal Ground	(43) 43	(43) 2.5	(43) BK / WH	(43) 19 51	(43) V	(43) —
(44) 44	(44) 0.75	(44) BU / WH	(44) 74 46	(44) II	(44) —	(44) Fuel Pressure Sensor Signal	(44) 44	(44) 0.75	(44) BU / WH	(44) 74 46	(44) VI	(44) —
45	—	—	—	—	—	Not Occupied	45	—	—	—	—	—
(46) 46	(46) 0.5	(46) BK / YE	(46) 74 47	(46) II	(46) —	(46) Fuel Pressure Sensor Low Reference	(46) 46	(46) 0.5	(46) BK / YE	(46) 74 47	(46) IV	(46) —
47 - 49	—	—	—	—	—	Not Occupied	47 - 49	—	—	—	—	—
(50) 50	(50) 0.5	(50) WH	(50) 40 55	(50) II	(50) —	(50) Private Serial Data Powertrain CAN Bus [+] Serial Data	(50) 50	(50) 0.5	(50) WH	(50) 40 55	(50) IV	(50) —
51	—	—	—	—	—	Not Occupied	51	—	—	—	—	—
(52) 52	(52) 0.5	(52) BU / GY	(52) 40 54	(52) II	(52) —	(52) Private Serial Data Powertrain CAN Bus [-] Serial Data	(52) 52	(52) 0.5	(52) BU / GY	(52) 40 54	(52) IV	(52) —
53	—	—	—	—	—	Not Occupied	53	—	—	—	—	—
(54) 54	(54) 0.75	(54) WH	(54) 74 44	(54) II	(54) —	(54) Fuel Pump Assembly Shield Ground	(54) 54	(54) 0.75	(54) WH	(54) 74 44	(54) VI	(54) —
55	—	—	—	—	—	Not Occupied	55	—	—	—	—	—

X370A Dome Lamp Wiring Harness to Instrument Panel Wiring Harness



5278767



5278741

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)

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	13578908	J-35616-5 (PU)	J-38125-11A
IV	19330704	J-35616-13 (BU)	J-38125-215A

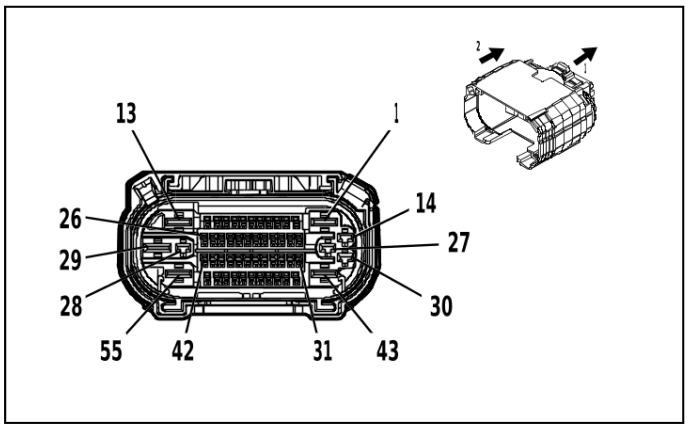
X370A Dome Lamp Wiring Harness to Instrument Panel Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / YE	(1) 240	(1) II	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / YE	(1) 240	(1) III	(1) —
(2) 2	(2) 0.5	(2) VT / BK	(2) 339	(2) I	(2) —	(2) Run/ Crank Ignition 1 Voltage	(2) 2	(2) 0.5	(2) VT / BK	(2) 339	(2) IV	(2) —
3	—	—	—	—	—	Not Occupied	3	—	—	—	—	—
(4) 4	(4) 0.35	(4) GN / BN	(4) 3005	(4) I	(4) —	(4) Active Noise Cancellation Microphone 1 Signal	(4) 4	(4) 0.35	(4) GN / BN	(4) 3005	(4) IV	(4) —
(5) 5	(5) 0.35	(5) GN / BK	(5) 3008	(5) I	(5) —	(5) Active Noise Cancellation Microphone 1 Feedback Signal	(5) 5	(5) 0.35	(5) GN / BK	(5) 3008	(5) IV	(5) —
6 - 9	—	—	—	—	—	Not Occupied	6 - 9	—	—	—	—	—
(10) 10	(10) 0.35	(10) WH	(10) 4978	(10) II	(10) —	(10) AUTOSAR CAN Bus [-] 2 Serial Data	(10) 10	(10) 0.35	(10) WH	(10) 4978	(10) III	(10) —

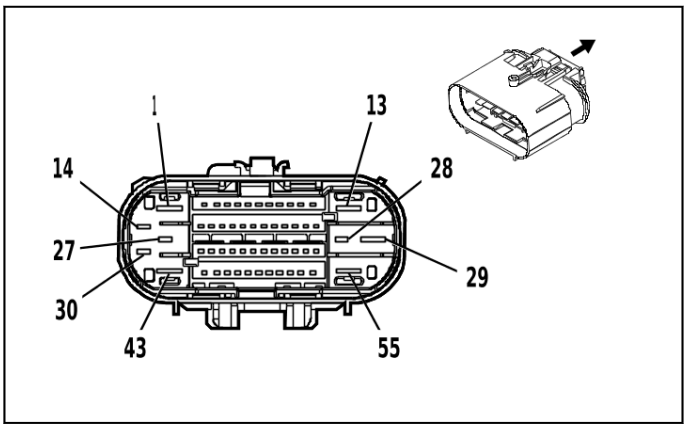
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(11) 11	(11) 0.35	(11) BU / YE	(11) 4979	(11) II	(11) —	(11) AUTOSAR CAN Bus [+] 2 Serial Data	(11) 11	(11) 0.35	(11) BU / YE	(11) 4979	(11) III	(11) —
(12) 12	(12) 0.35	(12) WH	(12) 4978	(12) I	(12) —	(12) AUTOSAR CAN Bus [-] 2 Serial Data	(12) 12	(12) 0.5	(12) WH	(12) 4978	(12) IV	(12) —
(13) 13	(13) 0.35	(13) BU / YE	(13) 4979	(13) I	(13) —	(13) AUTOSAR CAN Bus [+] 2 Serial Data	(13) 13	(13) 0.5	(13) BU / YE	(13) 4979	(13) IV	(13) —
(14) 14	(14) 0.35	(14) BK / BN	(14) 654	(14) I	(14) —	(14) Cellular Telephone Microphone Low Reference	(14) 14	(14) 0.35	(14) BK / BN	(14) 654	(14) IV	(14) —
(15) 15	(15) 0.35	(15) BU	(15) 655	(15) I	(15) —	(15) Cellular Telephone Microphone Signal	(15) 15	(15) 0.35	(15) BU	(15) 655	(15) IV	(15) —
(16) 16	(16) 0.35	(16) VT / YE	(16) 7043	(16) I	(16) —	(16) Microphone [+] Signal	(16) 16	(16) 0.35	(16) VT / YE	(16) 7043	(16) IV	(16) —
(17) 17	(17) 0.35	(17) BU / BK	(17) 7044	(17) I	(17) —	(17) Microphone [-] Signal	(17) 17	(17) 0.35	(17) BU / BK	(17) 7044	(17) IV	(17) —
(18) 18	(18) 0.5	(18) BU / BK	(18) 1053	(18) I	(18) —	(18) Center High Mounted Stop Lamp Control 3	(18) 18	(18) 0.5	(18) BU / BK	(18) 1053	(18) IV	(18) —
(19) 19	(19) 0.5	(19) WH / VT	(19) 1430	(19) I	(19) —	(19) Exterior Courtesy Lamp Control	(19) 19	(19) 0.5	(19) WH / VT	(19) 1430	(19) IV	(19) —
(20) 20	(20) 0.35	(20) YE / WH	(20) 1690	(20) I	(20) —	(20) Mirror Dimming Signal	(20) 20	(20) 0.35	(20) YE / WH	(20) 1690	(20) IV	(20) —
(21) 21	(21) 0.35	(21) BK / YE	(21) 1691	(21) I	(21) —	(21) Automatic Day/Night Mirror Low Reference	(21) 21	(21) 0.35	(21) BK / YE	(21) 1691	(21) IV	(21) —
(22) 22	(22) 0.35	(22) GN / WH	(22) 24	(22) II	(22) —	(22) Backup Lamp Control	(22) 22	(22) 0.35	(22) GN / WH	(22) 24	(22) III	(22) —
(23) 23	(23) 0.35	(23) GN / WH	(23) 2514	(23) II	(23) —	(23) Telematics Switch Signal	(23) 23	(23) 0.35	(23) GN / WH	(23) 2514	(23) III	(23) —
(24) 24	(24) 0.35	(24) GN / BK	(24) 2515	(24) I	(24) —	(24) Telematics Switch Supply Voltage	(24) 24	(24) 0.35	(24) GN / BK	(24) 2515	(24) IV	(24) —
(25) 25	(25) 0.35	(25) YE / VT	(25) 2516	(25) I	(25) —	(25) Telematics Switch Green LED Indicator Control	(25) 25	(25) 0.35	(25) YE / VT	(25) 2516	(25) IV	(25) —
(26) 26	(26) 0.35	(26) BN / WH	(26) 2517	(26) I	(26) —	(26) Telematics Switch Red LED Indicator Control	(26) 26	(26) 0.35	(26) BN / WH	(26) 2517	(26) IV	(26) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(27) 27	(27) 0.5	(27) GN / WH	(27) 28 54	(27) I	(27) —	(27) Body Control Module LIN Bus 8	(27) 27	(27) 0.5	(27) GN / WH	(27) 28 54	(27) IV	(27) —
(28) 28	(28) 0.35	(28) GN / WH	(28) 41 15	(28) I	(28) —	(28) Body Control Module LIN Bus 5	(28) 28	(28) 0.35	(28) GN / WH	(28) 41 15	(28) IV	(28) —
(29) 29	(29) 0.35	(29) YE / VT	(29) 61 91	(29) I	(29) —	(29) Power Rear Window Switch Open Signal	(29) 29	(29) 0.5	(29) YE / VT	(29) 61 91	(29) IV	(29) —
(30) 30	(30) 0.35	(30) WH	(30) 61 92	(30) I	(30) —	(30) Sliding Rear Window Switch Close Signal	(30) 30	(30) 0.5	(30) WH	(30) 61 92	(30) IV	(30) —
(31) 31	(31) 0.35	(31) YE	(31) 68 17	(31) I	(31) —	(31) LED Backlight Dimming Control 1	(31) 31	(31) 0.35	(31) YE	(31) 68 17	(31) IV	(31) —
(32) 32	(32) 0.5	(32) VT	(32) 80 1	(32) I	(32) —	(32) Retained Accessory Power Control	(32) 32	(32) 0.5	(32) VT	(32) 80 1	(32) IV	(32) —
(33) 33	(33) 0.5	(33) BN / YE	(33) 82 0	(33) I	(33) —	(33) Center High Mounted Stop Lamp Supply Voltage	(33) 33	(33) 0.5	(33) BN / YE	(33) 82 0	(33) IV	(33) —
(34) 34	(34) 0.35	(34) RD / WH	(34) 13 40	(34) I	(34) —	(34) Battery Positive Voltage	(34) 34	(34) 0.35	(34) RD / WH	(34) 13 40	(34) IV	(34) —
35	—	—	—	—	—	Not Occupied	35	—	—	—	—	—
(36) 36	(36) 0.35	(36) BK / WH	(36) 85 1	(36) I	(36) —	(36) Signal Ground	(36) 36	(36) 0.5	(36) BK / WH	(36) 85 1	(36) IV	(36) —
37 - 38	—	—	—	—	—	Not Occupied	37 - 38	—	—	—	—	—
(39) 39	(39) 2.5	(39) VT / BU	(39) 10 735	(39) II	(39) —	(39) Upfitter Accessory 5 Supply Voltage	(39) 39	(39) 2.5	(39) VT / BU	(39) 10 735	(39) III	(39) —
(40) 40	(40) 2.5	(40) BK	(40) 10 50	(40) II	(40) —	(40) Ground	(40) 40	(40) 2.5	(40) BK	(40) 10 50	(40) III	(40) —
41 - 52	—	—	—	—	—	Not Occupied	41 - 52	—	—	—	—	—
(53) 53	(53) 2.5	(53) RD / BU	(53) 45 40	(53) II	(53) —	(53) Battery Positive Voltage	(53) 53	(53) 2.5	(53) RD / BU	(53) 45 40	(53) III	(53) —
54 - 59	—	—	—	—	—	Not Occupied	54 - 59	—	—	—	—	—

X370B Dome Lamp Wiring Harness to Instrument Panel Wiring Harness



4992168



4993301

Connector Part Information
- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 35605245
- Service Connector: 19371185
- Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Connector Part Information
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 35664005
- 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

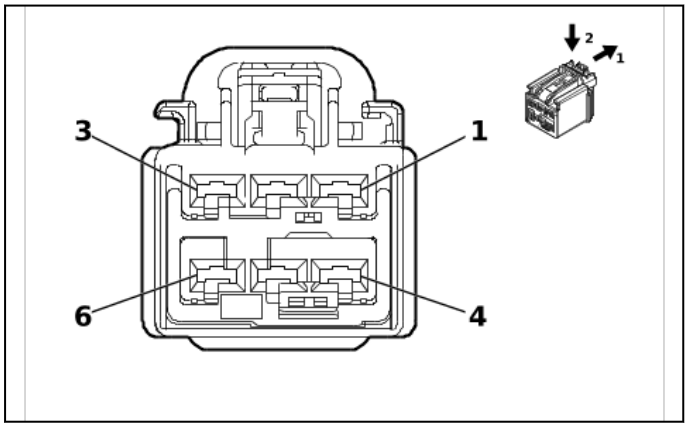
X370B Dome Lamp Wiring Harness to Instrument Panel Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / YE	(1) 240	(1) III	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / YE	(1) 240	(1) IV	(1) —
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
(3) 3	(3) 0.5	(3) VT / BK	(3) 339	(3) II	(3) —	(3) Run/ Crank Ignition 1 Voltage	(3) 3	(3) 0.5	(3) VT / BK	(3) 339	(3) V	(3) —
(4) 4	(4) 0.35	(4) W H	(4) 4978	(4) II	(4) —	(4) AUTOSAR CAN Bus [-] 2 Serial Data	(4) 4	(4) 0.35	(4) W H	(4) 4978	(4) V	(4) —
(5) 5	(5) 0.35	(5) BU / YE	(5) 4979	(5) II	(5) —	(5) AUTOSAR CAN Bus [+] 2 Serial Data	(5) 5	(5) 0.35	(5) BU / YE	(5) 4979	(5) V	(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) V	(6) —

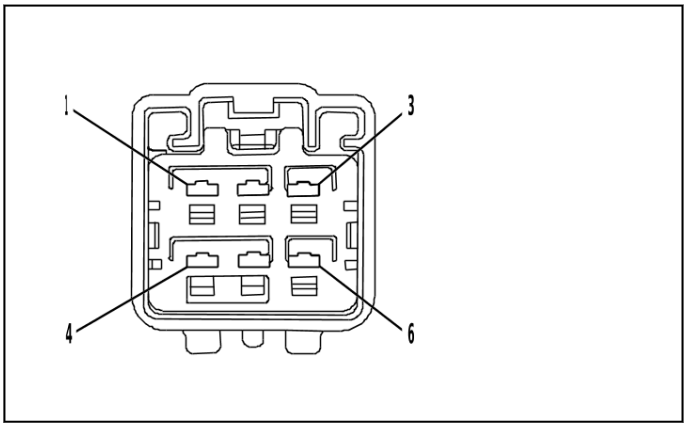
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(7) 7	(7) 0.35	(7) BU	(7) 655	(7) II	(7) —	(7) Cellular Telephone Microphone Signal	(7) 7	(7) 0.35	(7) BU	(7) 655	(7) V	(7) —
(8) 8	(8) 0.5	(8) BU / BK	(8) 1053	(8) II	(8) —	(8) Center High Mounted Stop Lamp Control 3	(8) 8	(8) 0.5	(8) BU / BK	(8) 1053	(8) V	(8) —
(9) 9	(9) 0.5	(9) WH / VT	(9) 1430	(9) II	(9) —	(9) Exterior Courtesy Lamp Control	(9) 9	(9) 0.5	(9) WH / VT	(9) 1430	(9) V	(9) —
10 - 14	—	—	—	—	—	Not Occupied	10 - 14	—	—	—	—	—
(15) 15	(15) 0.5	(15) GN / WH	(15) 2854	(15) II	(15) —	(15) Body Control Module LIN Bus 8	(15) 15	(15) 0.5	(15) GN / WH	(15) 2854	(15) V	(15) —
16	—	—	—	—	—	Not Occupied	16	—	—	—	—	—
(17) 17	(17) 0.5	(17) BN / YE	(17) 820	(17) II	(17) —	(17) Center High Mounted Stop Lamp Supply Voltage	(17) 17	(17) 0.5	(17) BN / YE	(17) 820	(17) V	(17) —
18 - 19	—	—	—	—	—	Not Occupied	18 - 19	—	—	—	—	—
(20) 20	(20) 0.35	(20) YE / WH	(20) 1690	(20) II	(20) —	(20) Mirror Dimming Signal	(20) 20	(20) 0.35	(20) YE / WH	(20) 1690	(20) V	(20) —
(21) 21	(21) 0.35	(21) BK / YE	(21) 1691	(21) II	(21) —	(21) Automatic Day/Night Mirror Low Reference	(21) 21	(21) 0.35	(21) BK / YE	(21) 1691	(21) V	(21) —
(22) 22	(22) 0.35	(22) GN / WH	(22) 24	(22) II	(22) —	(22) Backup Lamp Control	(22) 22	(22) 0.35	(22) GN / WH	(22) 24	(22) V	(22) —
(23) 23	(23) 0.35	(23) GN / WH	(23) 2514	(23) II	(23) —	(23) Telematics Switch Signal	(23) 23	(23) 0.35	(23) GN / WH	(23) 2514	(23) V	(23) —
(24) 24	(24) 0.35	(24) GN / BK	(24) 2515	(24) II	(24) —	(24) Telematics Switch Supply Voltage	(24) 24	(24) 0.35	(24) GN / BK	(24) 2515	(24) V	(24) —
(25) 25	(25) 0.35	(25) YE / VT	(25) 2516	(25) II	(25) —	(25) Telematics Switch Green LED Indicator Control	(25) 25	(25) 0.35	(25) YE / VT	(25) 2516	(25) V	(25) —
(26) 26	(26) 0.35	(26) BN / WH	(26) 2517	(26) II	(26) —	(26) Telematics Switch Red LED Indicator Control	(26) 26	(26) 0.35	(26) BN / WH	(26) 2517	(26) V	(26) —
(27) 27	(27) 2.5	(27) BK	(27) 1050	(27) I	(27) —	(27) Ground	(27) 27	(27) 2.5	(27) BK	(27) 1050	(27) VI	(27) —
(28) 28	(28) 2.5	(28) VT / BU	(28) 10735	(28) I	(28) —	(28) Upfitter Accessory 5 Supply Voltage	(28) 28	(28) 2.5	(28) VT / BU	(28) 10735	(28) VI	(28) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
29 - 35	—	—	—	—	—	Not Occupied	29 - 35	—	—	—	—	—
(36) 36	(36) 0.35	(36) BK / WH	(36) 851	(36) II	(36) —	(36) Signal Ground	(36) 36	(36) 0.5	(36) BK / WH	(36) 851	(36) V	(36) —
37 - 45	—	—	—	—	—	Not Occupied	37 - 45	—	—	—	—	—
(46) 46	(46) 0.35	(46) WH	(46) 4978	(46) II	(46) —	(46) AUTOSAR CAN Bus [-] 2 Serial Data	(46) 46	(46) 0.35	(46) WH	(46) 4978	(46) V	(46) —
(47) 47	(47) 0.35	(47) BU / YE	(47) 4979	(47) II	(47) —	(47) AUTOSAR CAN Bus [+] 2 Serial Data	(47) 47	(47) 0.35	(47) BU / YE	(47) 4979	(47) V	(47) —
48 - 55	—	—	—	—	—	Not Occupied	48 - 55	—	—	—	—	—

X371A Inside Rearview Mirror Wiring Harness to Dome Lamp Wiring Harness



5757440



1849802

Connector Part Information
- Harness Type: Inside Rearview Mirror Wiring Harness
- 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)

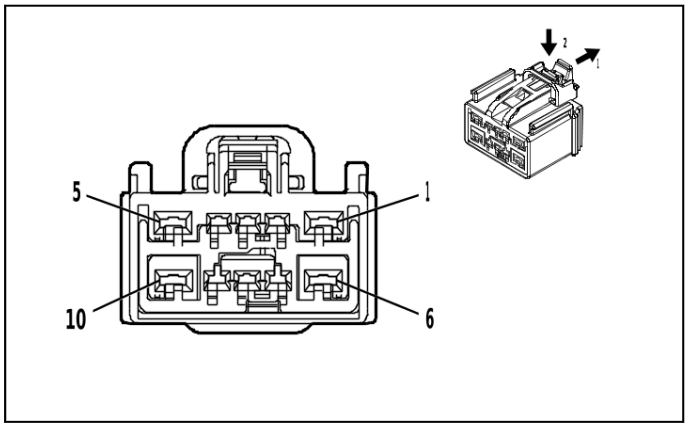
Terminal Part Information

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

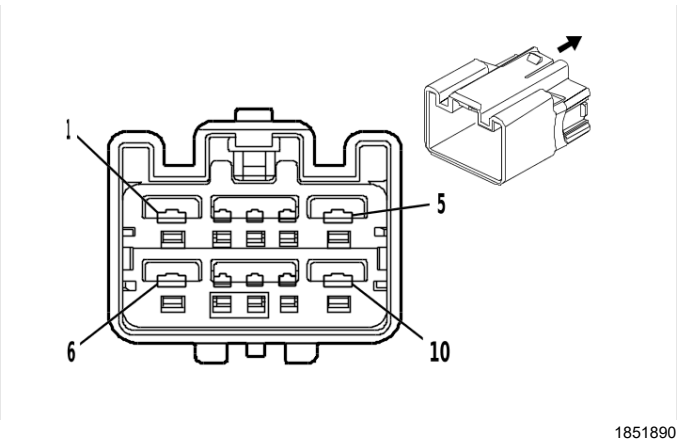
X371A Inside Rearview Mirror Wiring Harness to Dome Lamp Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH / VT	(1) 1430	(1) I	(1) —	(1) Exterior Courtesy Lamp Control	(1) 1	(1) 0.5	(1) WH / VT	(1) 1430	(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) 1050	(3) I	(3) —	(3) Ground	(3) 3	(3) 1	(3) BK	(3) 1050	(3) II	(3) —
(4) 4	(4) 2.5	(4) BK	(4) 1050	(4) I	(4) —	(4) Ground	(4) 4	(4) 2.5	(4) BK	(4) 1050	(4) II	(4) —
(5) 5	(5) 2.5	(5) VT / BU	(5) 10735	(5) I	(5) —	(5) Upfitter Accessory 5 Supply Voltage	(5) 5	(5) 2.5	(5) VT / BU	(5) 10735	(5) II	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

X371A_UVO Inside Rearview Mirror Wiring Harness to Dome Lamp Wiring Harness



5020939



1851890

Connector Part Information
- Harness Type: Inside Rearview Mirror Wiring Harness
- OEM Connector: 7289-9153-40
- Service Connector: Service by Harness - See Part Catalog
- Description: 10-Way F 1.5, 2.8 Kaizen Series(L-GY)

Connector Part Information
- Harness Type: Dome Lamp Wiring Harness
- OEM Connector: 7282-6459-40
- Service Connector: 89047070
- Description: 10-Way M 1.5, 2.8 Kaizen Series(L-GY)

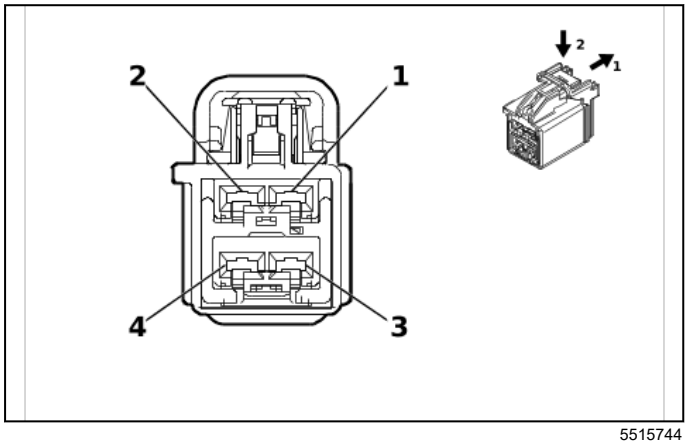
Terminal Part Information

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

X371A_UVO Inside Rearview Mirror Wiring Harness to Dome Lamp Wiring Harness

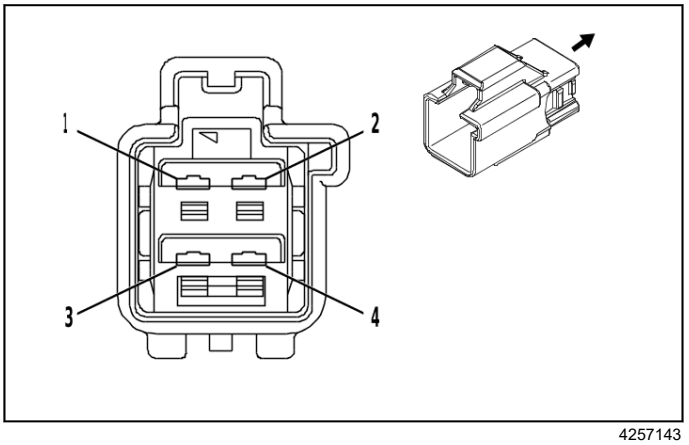
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GN / BU	(1) 10735	(1) II	(1) —	(1) Upfitter Accessory 5 Supply Voltage	(1) 1	(1) 2.5	(1) VT / BU	(1) 10735	(1) IV	(1) —
(2) 2	(2) 0.35	(2) BN / YE	(2) 820	(2) I	(2) —	(2) Center High Mounted Stop Lamp Supply Voltage	(2) 2	(2) 0.5	(2) BN / YE	(2) 820	(2) III	(2) —
(3) 3	(3) 0.35	(3) BK	(3) 1050	(3) I	(3) —	(3) Ground	(3) 3	(3) 1	(3) BK	(3) 1050	(3) III	(3) —
(4) 4	(4) 0.35	(4) WH / VT	(4) 1430	(4) I	(4) —	(4) Exterior Courtesy Lamp Control	(4) 4	(4) 0.5	(4) WH / VT	(4) 1430	(4) III	(4) —
(5) 5	(5) 2.5	(5) BK	(5) 1050	(5) II	(5) —	(5) Ground	(5) 5	(5) 2.5	(5) BK	(5) 1050	(5) IV	(5) —
(6) 6	(6) 0.35	(6) VT / GN	(6) 339	(6) II	(6) —	(6) Run/ Crank Ignition 1 Voltage	(6) 6	(6) 0.35	(6) VT / BK	(6) 339	(6) IV	(6) —
(7) 7	(7) 0.35	(7) WH / BU	(7) 6973	(7) I	(7) —	(7) Rearview Camera Signal [-]	(7) 7	(7) 0.35	(7) WH / BU	(7) 6973	(7) III	(7) —
(8) 8	(8) 0.35	(8) GY / YE	(8) 6972	(8) I	(8) —	(8) Rearview Camera Signal [+]	(8) 8	(8) 0.35	(8) GY / YE	(8) 6972	(8) III	(8) —
(9) 9	(9) 0.35	(9) BARE	(9) 6974	(9) I	(9) —	(9) Rearview Camera Low Reference	(9) 9	(9) 0.35	(9) BARE	(9) 6974	(9) III	(9) —
(10) 10	(10) 0.35	(10) BK / WH	(10) 851	(10) II	(10) —	(10) Signal Ground	(10) 10	(10) 0.35	(10) BK / WH	(10) 851	(10) IV	(10) —

X375 Sunroof Wiring Harness to Dome Lamp Wiring Harness



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)



4257143

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)

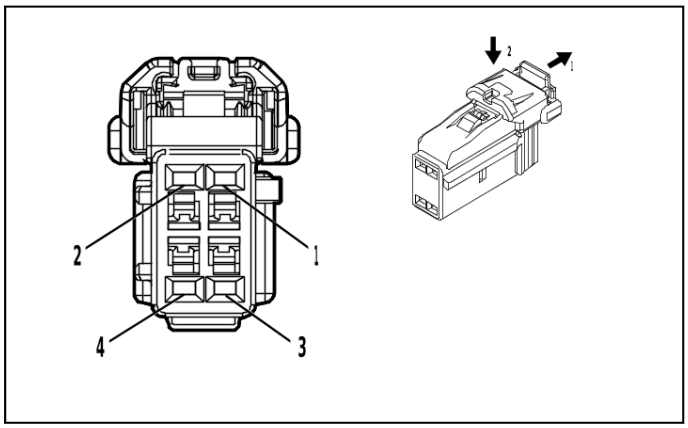
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

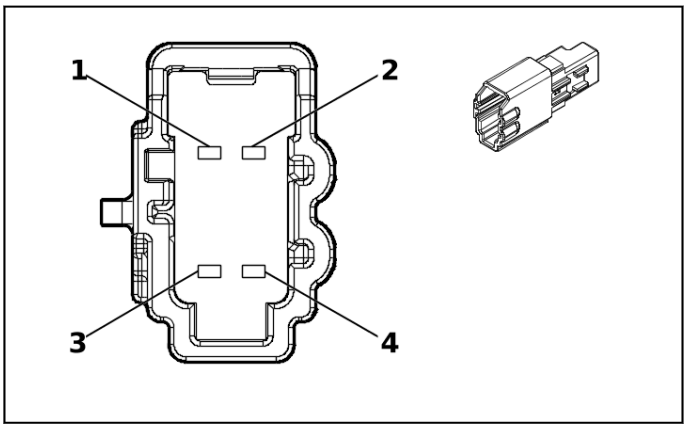
X375 Sunroof Wiring Harness to Dome Lamp Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 1.5	(1) BK	(1) 1050	(1) I	(1) —	(1) Ground	(1) 1	(1) 2.5	(1) BK	(1) 1050	(1) II	(1) —
(2) 2	(2) 0.35	(2) GN / BN	(2) 2854	(2) I	(2) —	(2) Body Control Module LIN Bus 8	(2) 2	(2) 0.5	(2) GN / WH	(2) 2854	(2) II	(2) —
3	—	—	—	—	—	Not Occupied	3	—	—	—	—	—
(4) 4	(4) 1.5	(4) RD / GY	(4) 4540	(4) I	(4) —	(4) Battery Positive Voltage	(4) 4	(4) 2.5	(4) RD / BU	(4) 4540	(4) II	(4) —

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)

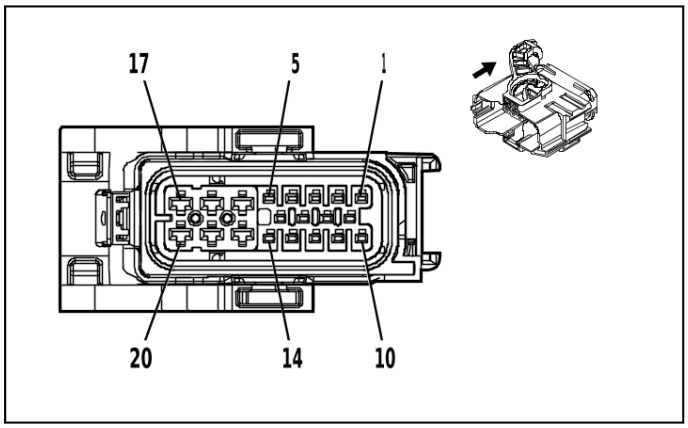
Terminal Part Information

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	J-35616-13 (BU)	No Tool Required

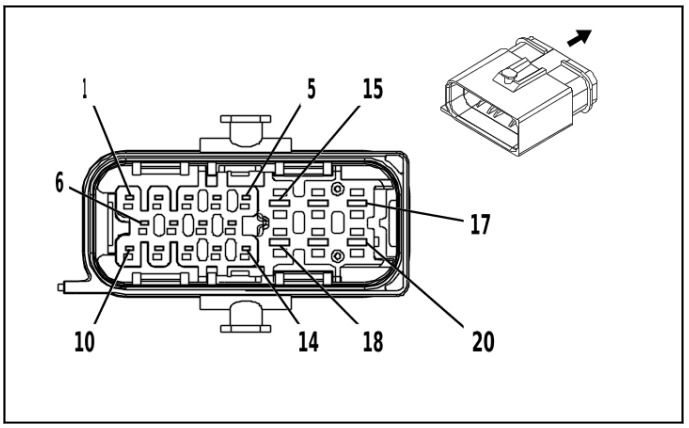
X382 Headlamp Automatic Control Ambient Light Sensor Wiring Harness to Dome Lamp Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) RD / WH	(1) 1340	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.35	(1) RD / WH	(1) 1340	(1) II	(1) —
(2) 2	(2) 0.35	(2) GN / BN	(2) 4115	(2) I	(2) —	(2) Body Control Module LIN Bus 5	(2) 2	(2) 0.35	(2) GN / WH	(2) 4115	(2) II	(2) —
(3) 3	(3) 0.35	(3) BK	(3) 1050	(3) I	(3) —	(3) Ground	(3) 3	(3) 0.35	(3) BK	(3) 1050	(3) II	(3) —
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—

X401 Chassis Wiring Harness to Engine Wiring Harness



4994285



4500420

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 13974124
- Service Connector: 19371189
- Description: 20-Way F 1.2 MCON, 2.8 MCP Series, Sealed(BK)

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 33156041
- Service Connector: 19333031
- Description: 20-Way M 1.2, 2.8 MCP Series, Sealed(BK)

Terminal Part Information

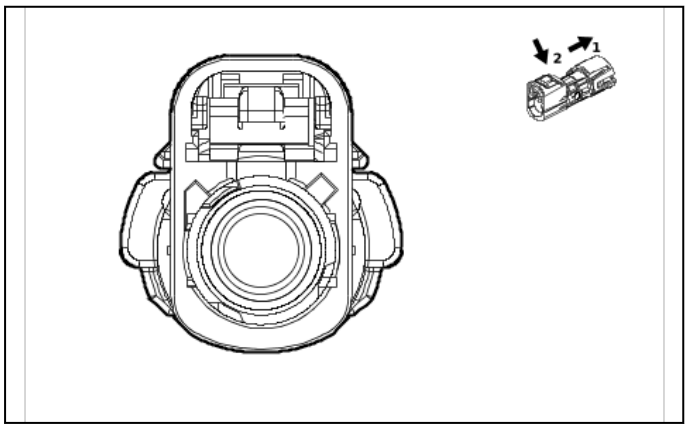
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19300446	J-35616-12 (BU)	J-38125-12A
II	19368624	J-35616-35 (VT)	J-38125-557
III	85669160	J-35616-12 (BU)	J-38125-215A
IV	13575364	J-35616-5 (PU)	J-38125-36
V	19356519	J-35616-13 (BU)	J-38125-215A

X401 Chassis Wiring Harness to Engine Wiring Harness

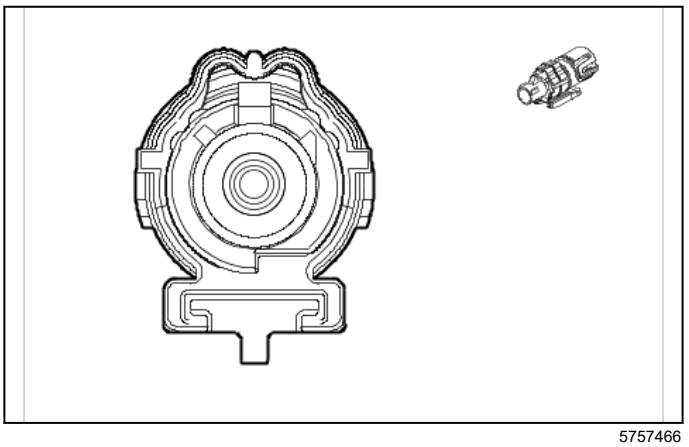
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) WH	(1) 4055	(1) I	(1) —	(1) Private Serial Data Powertrain CAN Bus [+] Serial Data	(1) 1	(1) 0.5	(1) WH	(1) 4055	(1) V	(1) —
(2) 2	(2) 0.5	(2) BU / GY	(2) 4054	(2) I	(2) —	(2) Private Serial Data Powertrain CAN Bus [-] Serial Data	(2) 2	(2) 0.5	(2) BU / GY	(2) 4054	(2) V	(2) —
(3) 3	(3) 0.5	(3) GN / GY	(3) 465	(3) I	(3) —	(3) Fuel Pump Primary Relay Control	(3) 3	(3) 0.5	(3) GN / GY	(3) 465	(3) V	(3) —
(4) 4	(4) 1 (4) 0.5	(4) BK / WH (4) WH / RD	(4) 1151 (4) 11031	(4) III (4) I	(4) L5P (4) L8T	(4) Signal Ground (4) Fuel Tank Isolation Valve Supply Voltage	(4) 4	(4) 0.75 (4) 0.5	(4) BK / WH (4) WH / RD	(4) 1151 (4) 11031	(4) V (4) V	(4) L5P (4) L8T
(5) 5	(5) 0.5 (5) 0.5	(5) BU (5) VT / BU	(5) 10290 (5) 5294	(5) I (5) I	(5) L5P (5) L8T	(5) Exhaust Gas Temperature Sensor SENT 2 Signal (5) Powertrain Main Relay Fused Supply Voltage 5	(5) 5	(5) 0.5 (5) 0.5	(5) BU (5) VT / BU	(5) 10290 (5) 5294	(5) V (5) V	(5) L5P (5) L8T
(6) 6	(6) 0.5	(6) BU / GN	(6) 11437	(6) I	(6) —	(6) Secondary Fuel Pump Disable Signal	(6) 6	(6) 0.5	(6) BU / GN	(6) 11437	(6) V	(6) —
(7) 7	(7) 1 (7) 0.5	(7) WH / RD (7) BK / GY	(7) 480 (7) 626	(7) III (7) I	(7) L5P (7) L87	(7) Engine Control Vehicle Sensors 5 Volt Reference 1 (7) Engine Control Vehicle Sensors Low Reference 1	(7) 7	(7) 0.5 (7) 0.5	(7) WH / RD (7) BK / GY	(7) 480 (7) 626	(7) V (7) V	(7) L5P (7) L8T
(8) 8	(8) 1 (8) 0.5	(8) WH / BN (8) YE / GY	(8) 2363 (8) 11029	(8) III (8) I	(8) L5P (8) L8T	(8) Exhaust Pressure Sensor SENT 1 Signal (8) Canister Vapor Pressure Sensor Signal	(8) 8	(8) 0.5 (8) 0.5	(8) WH / BN (8) YE / GY	(8) 2363 (8) 11029	(8) V (8) V	(8) L5P (8) L8T

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(9) 9	(9) 1 (9) 0.5	(9) BK / GY (9) W H / RD	(9) 626 (9) 480	(9) III (9) I	(9) L5P (9) L8T	(9) Engine Control Vehicle Sensors Low Reference 1 (9) Engine Control Vehicle Sensors 5 Volt Reference 1	(9) 9	(9) 0.5 (9) 0.5	(9) BK / GY (9) W H / RD	(9) 626 (9) 480	(9) V (9) V	(9) L5P (9) L8T
(10) 10	(10) 0.5	(10) Y E	(10) 10 291	(10) I	(10) —	(10) Exhaust Gas Temperature Sensor SENT 3 Signal	(10) 10	(10) 0.5	(10) Y E	(10) 10 291	(10) V	(10) —
(11) 11	(11) 0.5	(11) B N / BU	(11) 29 26	(11) I	(11) —	(11) Exhaust Aftertreatment Fuel Injector High Control	(11) 11	(11) 0.5	(11) B N / BU	(11) 29 26	(11) V	(11) —
(12) 12	(12) 0.5	(12) V T / BN	(12) 29 27	(12) I	(12) —	(12) Exhaust Aftertreatment Fuel Injector Low Control	(12) 12	(12) 0.5	(12) V T / BN	(12) 29 27	(12) V	(12) —
(13) 13	(13) 0.5	(13) Y E / RD	(13) 10 595	(13) I	(13) —	(13) Engine Control Vehicle Sensors 5 Volt Reference 2	(13) 13	(13) 0.5	(13) Y E / RD	(13) 10 595	(13) V	(13) —
(14) 14	(14) 0.75	(14) V T / BU	(14) 52 93	(14) II	(14) —	(14) Powertrain Main Relay Fused Supply Voltage 4	(14) 14	(14) 0.75	(14) V T / BU	(14) 52 93	(14) V	(14) —
(15) 15	(15) 1.5 (15) 0.5	(15) V T / GN (15) V T / GN	(15) 43 20 (15) 43 20	(15) II (15) II	(15) L5P (15) L8T	(15) Powertrain Sensor Bus Enable (15) Powertrain Sensor Bus Enable	(15) 15	(15) 1.5 (15) 0.5	(15) V T / GN (15) V T / GN	(15) 43 20 (15) 43 20	(15) IV (15) IV	(15) L5P (15) L8T
(16) 16	(16) 0.5	(16) B U / BK	(16) 49 77	(16) II	(16) —	(16) AUTOSAR CAN Bus [+] 3 Serial Data	(16) 16	(16) 0.5	(16) B U / BK	(16) 49 77	(16) IV	(16) —
(17) 17	(17) 0.5	(17) WH	(17) 49 76	(17) II	(17) —	(17) AUTOSAR CAN Bus [-] 3 Serial Data	(17) 17	(17) 0.5	(17) WH	(17) 49 76	(17) IV	(17) —
18	—	—	—	—	—	Not Occupied	18	—	—	—	—	—
(19) 19	(19) 0.5	(19) B U / YE	(19) 49 79	(19) II	(19) —	(19) AUTOSAR CAN Bus [+] 2 Serial Data	(19) 19	(19) 0.5	(19) B U / YE	(19) 49 79	(19) IV	(19) —
(20) 20	(20) 0.5	(20) WH	(20) 49 78	(20) II	(20) —	(20) AUTOSAR CAN Bus [-] 2 Serial Data	(20) 20	(20) 0.5	(20) WH	(20) 49 78	(20) IV	(20) —

X402A Body Wiring Harness to Chassis Wiring Harness



5810829



5757466

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)

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)

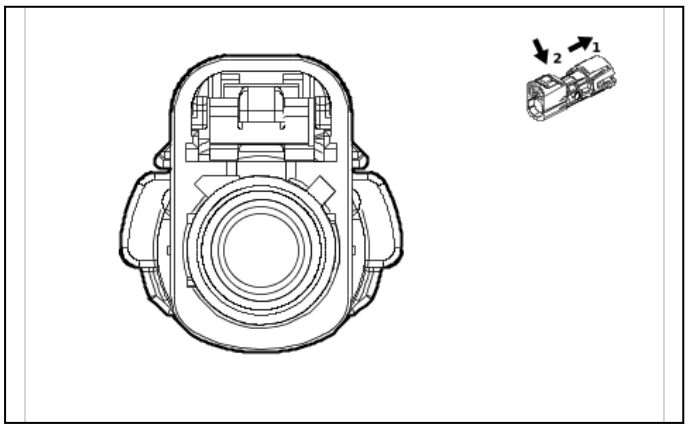
Terminal Part Information

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

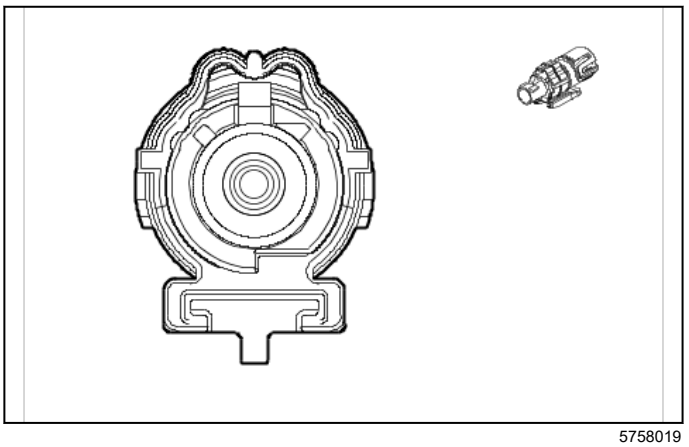
X402A Body Wiring Harness to Chassis Wiring Harness

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



5758030



5758019

Connector Part Information
- Harness Type: Body 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: Chassis Wiring Harness COAX
- OEM Connector: 33338239
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way M Coax Type, Sealed(BK)

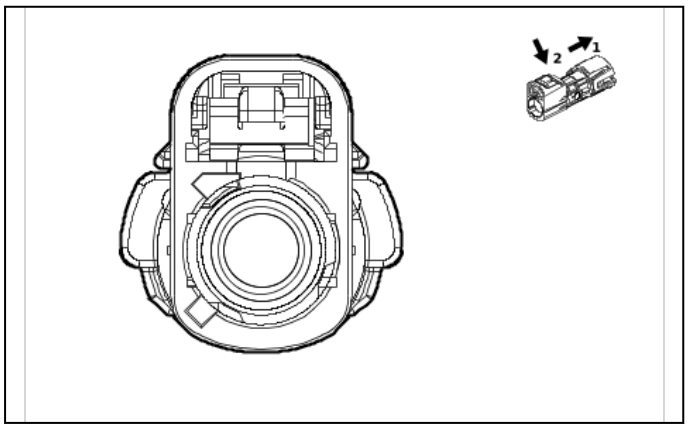
Terminal Part Information

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

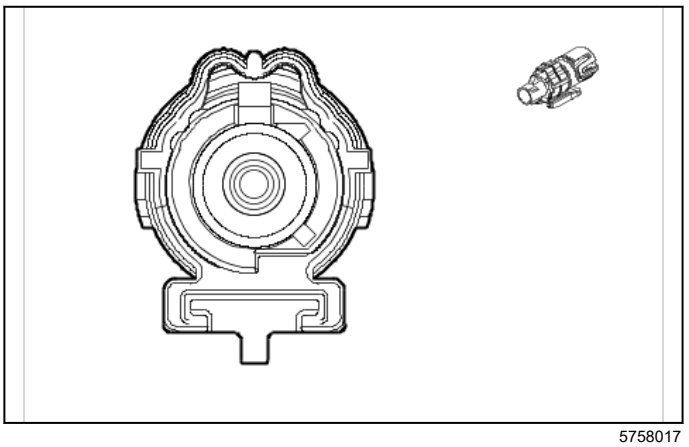
X402B Body Wiring Harness to Chassis Wiring Harness

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

X402C Body Wiring Harness to Chassis Wiring Harness



5810838



5758017

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)

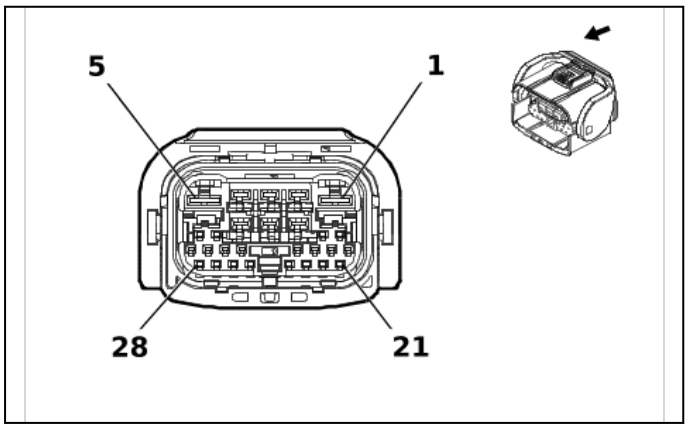
Terminal Part Information

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	—

X404 Chassis Wiring Harness to Emission Reduction Fluid Tank Reservoir Wire Harness



6572042

—

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 35792672
- 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: 7297-4839-30
- Service Connector: Service by Harness - See Part Catalog
- Description: 28-Way M 1.2 MLK, 2.8, 6.3 YESC Series(BK)

Terminal Part Information

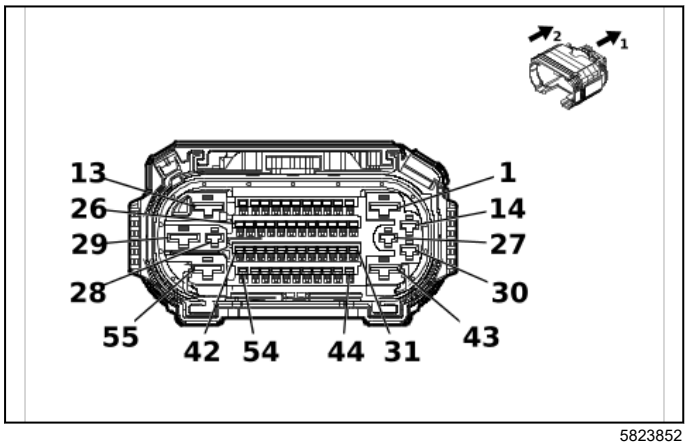
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575439	J-35616-42 (RD)	J-38125-11A
II	13576385	J-35616-16 (L-GN)	J-38125-215A
III	13579767	J-35616-42 (RD)	J-38125-11A
IV	13587518	J-35616-35 (VT)	J-38125-11A
V	Not required	No Tool Required	No Tool Required

X404 Chassis Wiring Harness to Emission Reduction Fluid Tank Reservoir Wire Harness

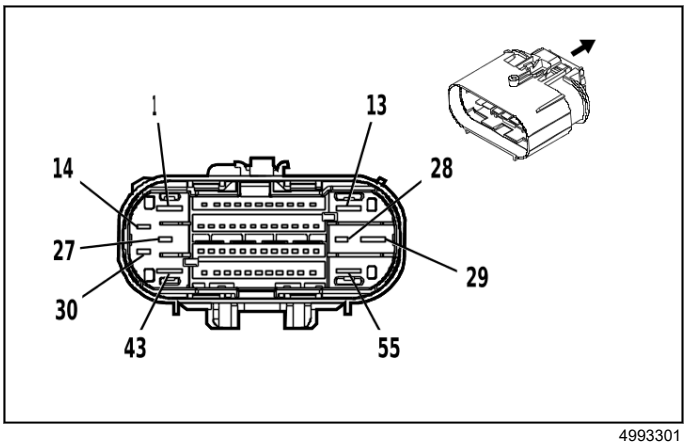
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) RD / WH	(1) 2040	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 2.5	(1) RD / WH	(1) 2040	(1) V	(1) —
2 - 4	—	—	—	—	—	Not Occupied	2 - 4	—	—	—	—	—
(5) 5	(5) 3	(5) BK / WH	(5) 1151	(5) III	(5) —	(5) Signal Ground	(5) 5	(5) 3	(5) BK / WH	(5) 1151	(5) V	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 1.5	(7) RD / GN	(7) 2440	(7) IV	(7) —	(7) Battery Positive Voltage	(7) 7	(7) 1.5	(7) RD / GN	(7) 2440	(7) V	(7) —
8 - 14	—	—	—	—	—	Not Occupied	8 - 14	—	—	—	—	—
(15) 15	(15) 0.5	(15) VT / WH	(15) 639	(15) II	(15) —	(15) Run/ Crank Ignition 1 Voltage	(15) 15	(15) 0.5	(15) VT / WH	(15) 639	(15) V	(15) —
(16) 16	(16) 0.5	(16) BU / BK	(16) 4977	(16) II	(16) —	(16) AUTOSAR CAN Bus [+] 3 Serial Data	(16) 16	(16) 0.5	(16) BU / BK	(16) 4977	(16) V	(16) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(17) 17	(17) 0.5	(17) BU / BK	(17) 49 77	(17) II	(17) —	(17) AUTOSAR CAN Bus [+] 3 Serial Data	(17) 17	(17) 0.5	(17) BU / BK	(17) 49 77	(17) V	(17) —
18 - 23	—	—	—	—	—	Not Occupied	18 - 23	—	—	—	—	—
(24) 24	(24) 0.5	(24) WH	(24) 49 76	(24) II	(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) 49 76	(25) II	(25) —	(25) AUTOSAR CAN Bus [-] 3 Serial Data	(25) 25	(25) 0.5	(25) WH	(25) 49 76	(25) V	(25) —
26 - 28	—	—	—	—	—	Not Occupied	26 - 28	—	—	—	—	—

X410 Body Wiring Harness to Chassis Wiring Harness



5823852



4993301

Connector Part Information
- Harness Type: Body Wiring Harness
- OEM Connector: 35588033
- Service Connector: 19371185
- Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Connector Part Information
- Harness Type: Chassis 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	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

X410 Body Wiring Harness to Chassis Wiring Harness

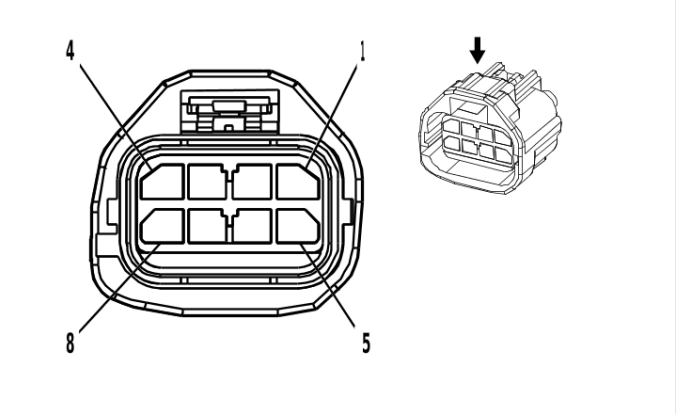
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY	(1) 4368	(1) IV	(1) —	(1) Right Park Brake Motor Low Reference	(1) 1	(1) 4	(1) GY	(1) 4368	(1) V	(1) —
(2) 2	(2) 0.75	(2) BU / VT	(2) 1335	(2) II	(2) —	(2) Right Rear Turn Signal Lamp Control 2	(2) 2	(2) 0.75	(2) BU / VT	(2) 1335	(2) VI	(2) —
(3) 3	(3) 0.5	(3) BN / YE	(3) 820	(3) II	(3) —	(3) Center High Mounted Stop Lamp Supply Voltage	(3) 3	(3) 0.5	(3) BN / YE	(3) 820	(3) VI	(3) —
(4) 4	(4) 0.5	(4) GN / BU	(4) 2733	(4) II	(4) —	(4) Brake System Control Module LIN Bus 2	(4) 4	(4) 0.5	(4) GN / BU	(4) 2733	(4) VI	(4) —
(5) 5	(5) 0.35	(5) BN / GN	(5) 3568	(5) II	(5) —	(5) Rear Closure Passive Entry Antenna High Signal	(5) 5	(5) 0.5	(5) BN / GN	(5) 3568	(5) VI	(5) —
(6) 6	(6) 0.35	(6) GN / GY	(6) 3569	(6) II	(6) —	(6) Rear Closure Passive Entry Antenna Low Signal	(6) 6	(6) 0.5	(6) GN / GY	(6) 3569	(6) VI	(6) —
(7) 7	(7) 0.75	(7) BU / WH	(7) 1334	(7) II	(7) —	(7) Left Rear Turn Signal Lamp Control 2	(7) 7	(7) 0.75	(7) BU / WH	(7) 1334	(7) VI	(7) —
(8) 8	(8) 0.5	(8) WH / VT	(8) 1430	(8) II	(8) —	(8) Exterior Courtesy Lamp Control	(8) 8	(8) 0.5	(8) WH / VT	(8) 1430	(8) VI	(8) —
(9) 9	(9) 0.5	(9) GN / YE	(9) 1616	(9) II	(9) —	(9) Rear Brake Pad Wear Sensor Signal	(9) 9	(9) 0.5	(9) GN / YE	(9) 1616	(9) VI	(9) —
(10) 10	(10) 0.5	(10) WH / BK	(10) 2223	(10) II	(10) —	(10) Trailer Brake Apply Signal	(10) 10	(10) 0.5	(10) WH / BK	(10) 2223	(10) VI	(10) —
(11) 11	(11) 0.35	(11) GN / YE	(11) 2862	(11) II	(11) —	(11) Body Control Module LIN Bus 16	(11) 11	(11) 0.5	(11) GN / YE	(11) 2862	(11) VI	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
(13) 13	(13) 2.5	(13) GN / VT	(13) 1988	(13) IV	(13) —	(13) Right Park Brake Motor Apply Control	(13) 13	(13) 4	(13) GN / VT	(13) 1988	(13) V	(13) —
(14) 14	(14) 2.5	(14) RD / VT	(14) 4442	(14) I	(14) —	(14) Primary Fused Battery Positive Voltage	(14) 14	(14) 2.5	(14) RD / VT	(14) 4442	(14) VIII	(14) —
(15) 15	(15) 0.5	(15) BU / YE	(15) 4979	(15) II	(15) —	(15) AUTOSAR CAN Bus [+] 2 Serial Data	(15) 15	(15) 0.5	(15) BU / YE	(15) 4979	(15) VI	(15) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(16) 16	(16) 0.5	(16) WH	(16) 49 78	(16) II	(16) —	(16) AUTOSAR CAN Bus [-] 2 Serial Data	(16) 16	(16) 0.5	(16) WH	(16) 49 78	(16) VI	(16) —
(17) 17	(17) 0.5	(17) WH	(17) 49 76	(17) II	(17) —	(17) AUTOSAR CAN Bus [-] 3 Serial Data	(17) 17	(17) 0.5	(17) WH	(17) 49 76	(17) VI	(17) —
(18) 18	(18) 0.5	(18) BU / BK	(18) 49 77	(18) II	(18) —	(18) AUTOSAR CAN Bus [+] 3 Serial Data	(18) 18	(18) 0.5	(18) BU / BK	(18) 49 77	(18) VI	(18) —
(19) 19	(19) 0.35	(19) WH / BK	(19) 75 44	(19) II	(19) —	(19) Right Rear Turn Signal Lamp Feedback Signal	(19) 19	(19) 0.75	(19) WH / BK	(19) 75 44	(19) VI	(19) —
(20) 20	(20) 0.5	(20) BN / BU	(20) 16 02	(20) II	(20) —	(20) Front Brake Pad Wear Sensor Signal	(20) 20	(20) 0.5	(20) BN / BU	(20) 16 02	(20) VI	(20) —
(21) 21	(21) 0.5	(21) VT	(21) 88 2	(21) II	(21) —	(21) Right Rear Wheel Speed Sensor Signal	(21) 21	(21) 0.5	(21) VT	(21) 88 2	(21) VI	(21) —
(22) 22	(22) 0.5	(22) GY / YE	(22) 71 28	(22) II	(22) —	(22) Right Rear Wheel Speed Sensor Control	(22) 22	(22) 0.5	(22) GY / YE	(22) 71 28	(22) VI	(22) —
(23) 23	(23) 0.5	(23) BU	(23) 88 4	(23) II	(23) —	(23) Left Rear Wheel Speed Sensor Signal	(23) 23	(23) 0.5	(23) BU	(23) 88 4	(23) VI	(23) —
(24) 24	(24) 0.5	(24) GY / BK	(24) 71 27	(24) II	(24) —	(24) Left Rear Wheel Speed Sensor Control	(24) 24	(24) 0.5	(24) GY / BK	(24) 71 27	(24) VI	(24) —
(25) 25	(25) 0.5	(25) GY	(25) 83 0	(25) II	(25) —	(25) Left Front Wheel Speed Sensor Signal	(25) 25	(25) 0.5	(25) GY	(25) 83 0	(25) VI	(25) —
(26) 26	(26) 0.5	(26) GY / WH	(26) 70 64	(26) II	(26) —	(26) Left Front Wheel Speed Sensor Control	(26) 26	(26) 0.5	(26) GY / WH	(26) 70 64	(26) VI	(26) —
(27) 27	(27) 2	(27) BU	(27) 47	(27) I	(27) —	(27) Trailer Auxiliary Control	(27) 27	(27) 2.5	(27) BU	(27) 47	(27) VIII	(27) —
(28) 28	(28) 0.5	(28) BN / GN	(28) 42 46	(28) I	(28) —	(28) Identification Lamp Control	(28) 28	(28) 0.5	(28) BN / GN	(28) 42 46	(28) VIII	(28) —
(29) 29	(29) 2.5	(29) WH	(29) 20 01	(29) IV	(29) —	(29) Left Park Brake Motor Apply Control	(29) 29	(29) 4	(29) WH	(29) 20 01	(29) V	(29) —
(30) 30	(30) 0.35	(30) GY	(30) 72 92	(30) I	(30) —	(30) Major Endgate Release Switch Signal Exterior	(30) 30	(30) 0.5	(30) GY	(30) 72 92	(30) VIII	(30) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(31) 31	(31) 0.35	(31) B N	(31) 10 119	(31) II	(31) —	(31) AC Outlet 2 Low Reference	(31) 31	(31) 0.5	(31) B N	(31) 10 119	(31) VI	(31) —
(32) 32	(32) 0.75	(32) R D / WH	(32) 10 121	(32) II	(32) —	(32) AC Outlet 2 Phase B Control	(32) 32	(32) 0.75	(32) R D / WH	(32) 10 121	(32) VI	(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) VI	(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) VI	(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) VI	(35) —
(36) 36	(36) 0.5	(36) B N / WH	(36) 23 74	(36) II	(36) —	(36) Object Sensor Voltage Reference	(36) 36	(36) 0.5	(36) B N / WH	(36) 23 74	(36) VI	(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) VI	(37) —
(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) VI	(38) —
(39) 39	(39) 0.5	(39) Y E / WH	(39) 23 77	(39) II	(39) —	(39) Right Rear Middle Parking Assist Sensor Signal	(39) 39	(39) 0.5	(39) Y E / WH	(39) 23 77	(39) VI	(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) VI	(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) VI	(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) VI	(42) —
(43) 43	(43) 2.5	(43) G Y / BK	(43) 43 69	(43) IV	(43) —	(43) Left Park Brake Motor Low Reference	(43) 43	(43) 4	(43) G Y / BK	(43) 43 69	(43) V	(43) —
(44) 44	(44) 0.75 (44) 1	(44) B K / WH (44) B K	(44) 10 120 (44) 90 03	(44) II (44) III	(44) KC9/ KCA (44) - KC9/ KCA	(44) AC Outlet 2 Phase A Control (44) Cavity Seal	(44) 44	(44) 0.75 (44) 1	(44) B K / WH (44) B K	(44) 10 120 (44) 90 00	(44) VI (44) VII	(44) KC9/ KCA (44) - KC9/ KCA
(45) 45	(45) 0.35	(45) Y E	(45) 72 94	(45) II	(45) —	(45) Minor Endgate Release Switch Discrete Signal Exterior	(45) 45	(45) 0.5	(45) Y E	(45) 72 94	(45) VI	(45) —

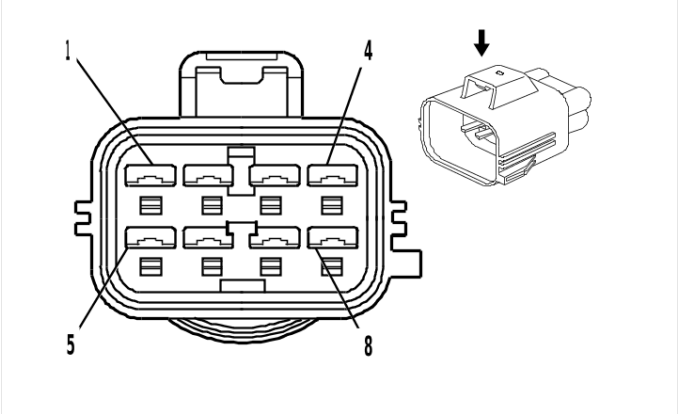
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(46) 46	(46) 0.5	(46) VT / RD	(46) 40 49	(46) II	(46) —	(46) AC Power Outlet Sensor High Reference	(46) 46	(46) 0.5	(46) VT / RD	(46) 40 49	(46) VI	(46) —
(47) 47	(47) 0.5	(47) YE / GN	(47) 20 24	(47) II	(47) —	(47) Animation Lighting Control	(47) 47	(47) 0.5	(47) YE / GN	(47) 20 24	(47) VI	(47) —
(48) 48	(48) 0.35	(48) WH / YE	(48) 75 41	(48) II	(48) —	(48) Right Rear Stop Lamp Control	(48) 48	(48) 0.75	(48) WH / YE	(48) 75 41	(48) VI	(48) —
(49) 49	(49) 0.75	(49) GY / YE	(49) 75 42	(49) II	(49) —	(49) Left Rear Stop Lamp Control	(49) 49	(49) 0.75	(49) GY / YE	(49) 75 42	(49) VI	(49) —
(50) 50	(50) 0.5	(50) VT / BK	(50) 73 9	(50) II	(50) —	(50) Run/ Crank Ignition 1 Voltage	(50) 50	(50) 0.5	(50) VT / BK	(50) 73 9	(50) VI	(50) —
(51) 51	(51) 0.35	(51) WH / VT	(51) 65 67	(51) II	(51) —	(51) Rear Turn Signal Lamp Feedback Signal	(51) 51	(51) 0.75	(51) WH / VT	(51) 65 67	(51) VI	(51) —
(52) 52	(52) 0.5	(52) GN / YE	(52) 68 46	(52) II	(52) —	(52) Rear License Plate Lamp Control	(52) 52	(52) 0.5	(52) GN / YE	(52) 68 46	(52) VI	(52) —
(53) 53	(53) 0.75	(53) BN / BU	(53) 69 93	(53) II	(53) —	(53) Left Rear Park Lamp Control	(53) 53	(53) 0.75	(53) BN / BU	(53) 69 93	(53) VI	(53) —
(54) 54	(54) 0.75	(54) BN / GY	(54) 69 95	(54) II	(54) —	(54) Right Rear Park Lamp Control	(54) 54	(54) 0.75	(54) BN / GY	(54) 69 95	(54) VI	(54) —
(55) 55	(55) 2.5	(55) RD / BN	(55) 41 42	(55) IV	(55) —	(55) Battery Positive Voltage (55) Primary Fused Battery Positive Voltage	(55) 55	(55) 4 (55) 2.5	(55) RD / BN (55) RD / BN	(55) 36 40 (55) 36 40	(55) V (55) V	(55) - JL1 (55) JL1

X412 Assist Step Motor Jumper Wiring Harness - Left to Chassis Wiring Harness (BRS)



1401778

Connector Part Information
- Harness Type: Assist Step Motor Jumper Wiring Harness - Left
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F



1856785

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

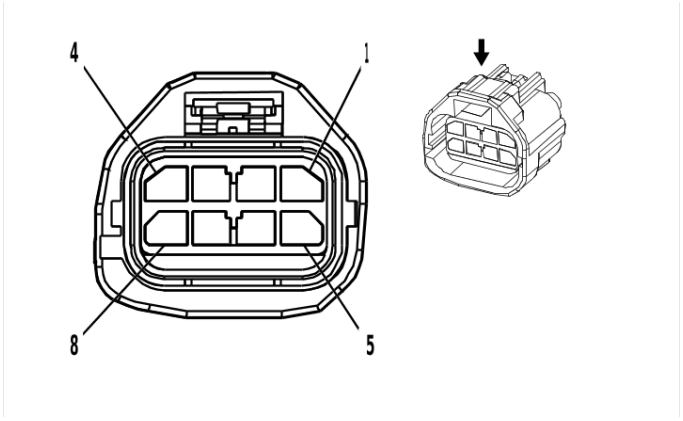
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

X412 Assist Step Motor Jumper Wiring Harness - 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) WH / BN	(1) 7471	(1) I	(1) —	(1) Left Running Board Step Motor Control Extend	(1) 1	(1) 2	(1) WH / BN	(1) 7471	(1) II	(1) —
(2) 2	(2) 0.5	(2) VT / RD	(2) 7468	(2) I	(2) —	(2) Left Running Board Step Motor Hall Sensor 5V Reference	(2) 2	(2) 0.5	(2) VT / RD	(2) 7468	(2) II	(2) —
(3) 3	(3) 0.5	(3) YE	(3) 7467	(3) I	(3) —	(3) Left Running Board Step Motor Hall Sensor Signal	(3) 3	(3) 0.5	(3) YE	(3) 7467	(3) II	(3) —
(4) 4	(4) 0.5	(4) YE / BN	(4) 7466	(4) I	(4) —	(4) Left Running Board Step Motor Hall Sensor Low Reference	(4) 4	(4) 0.5	(4) YE / BN	(4) 7466	(4) II	(4) —

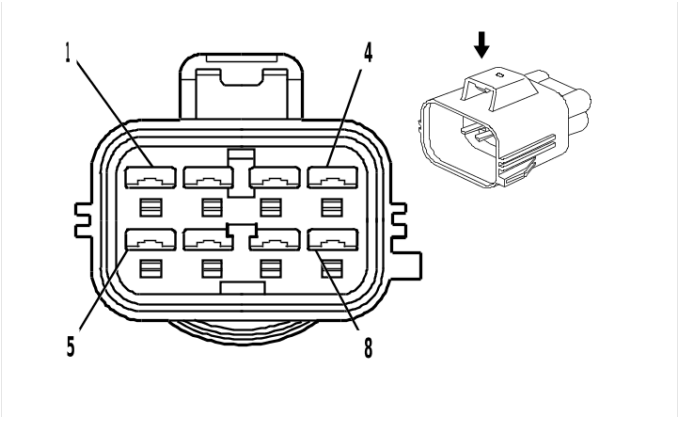
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(5) 5	(5) 0.35	(5) GY	(5) 7472	(5) I	(5) —	(5) Left Running Board Step Motor Control Retract	(5) 5	(5) 2	(5) GY	(5) 7472	(5) II	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 0.5	(7) BN	(7) 4748	(7) I	(7) —	(7) Left Running Board Step Courtesy Lamp Control	(7) 7	(7) 0.5	(7) BN	(7) 4748	(7) II	(7) —
(8) 8	(8) 0.5	(8) BK	(8) 1850	(8) I	(8) —	(8) Ground	(8) 8	(8) 0.5	(8) BK	(8) 1850	(8) II	(8) —

X413 Assist Step Motor Jumper Wiring Harness - Right to Chassis Wiring Harness (BRS)



1401778

Connector Part Information
- Harness Type: Assist Step Motor Jumper Wiring Harness - Right
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way F



1856785

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)

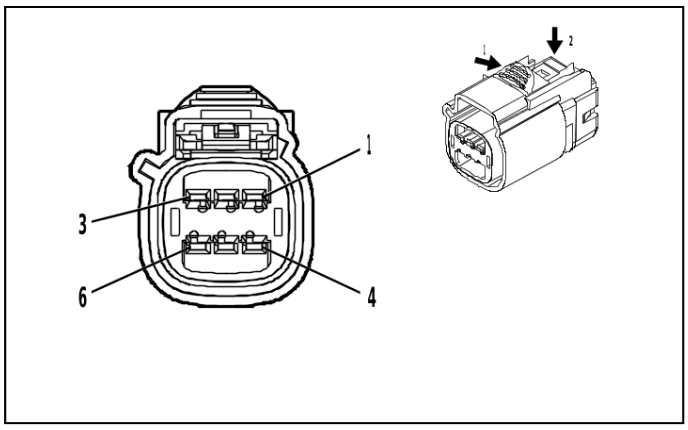
Terminal Part Information

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

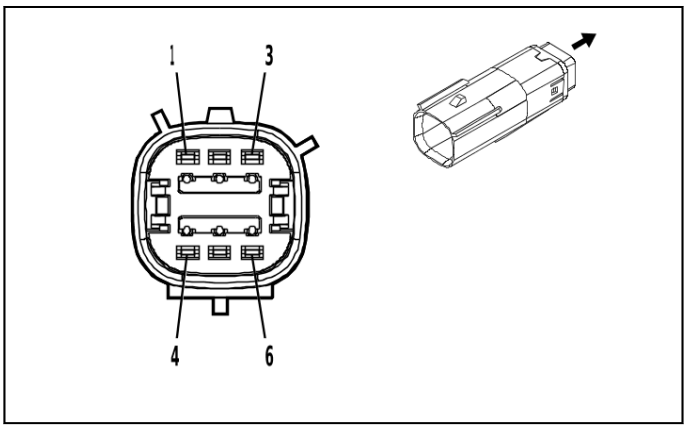
X413 Assist Step Motor Jumper Wiring Harness - Right to Chassis Wiring Harness (BRS)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2	(1) BU	(1) 7470	(1) I	(1) —	(1) Right Running Board Step Motor Control Extend	(1) 1	(1) 2	(1) BU	(1) 7470	(1) II	(1) —
(2) 2	(2) 0.5	(2) GN / RD	(2) 7464	(2) I	(2) —	(2) Right Running Board Step Motor Hall Sensor 5V Reference	(2) 2	(2) 0.5	(2) GN / RD	(2) 7464	(2) II	(2) —
(3) 3	(3) 0.5	(3) VT	(3) 7465	(3) I	(3) —	(3) Right Running Board Step Motor Hall Sensor Signal	(3) 3	(3) 0.5	(3) VT	(3) 7465	(3) II	(3) —
(4) 4	(4) 0.5	(4) YE / BK	(4) 7463	(4) I	(4) —	(4) Right Running Board Step Motor Hall Sensor Low Reference	(4) 4	(4) 0.5	(4) YE / BK	(4) 7463	(4) II	(4) —
(5) 5	(5) 2	(5) GN	(5) 7469	(5) I	(5) —	(5) Right Left Running Board Step Motor Control Retract	(5) 5	(5) 2	(5) GN	(5) 7469	(5) II	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
(7) 7	(7) 0.5	(7) GY / VT	(7) 4749	(7) I	(7) —	(7) Right Running Board Step Courtesy Lamp Control	(7) 7	(7) 0.5	(7) GY / VT	(7) 4749	(7) II	(7) —
(8) 8	(8) 0.5	(8) BK	(8) 1850	(8) I	(8) —	(8) Ground	(8) 8	(8) 0.5	(8) BK	(8) 1850	(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)

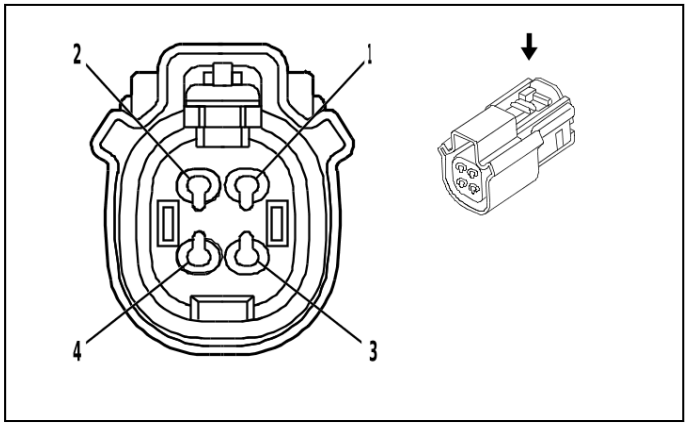
Terminal Part Information

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

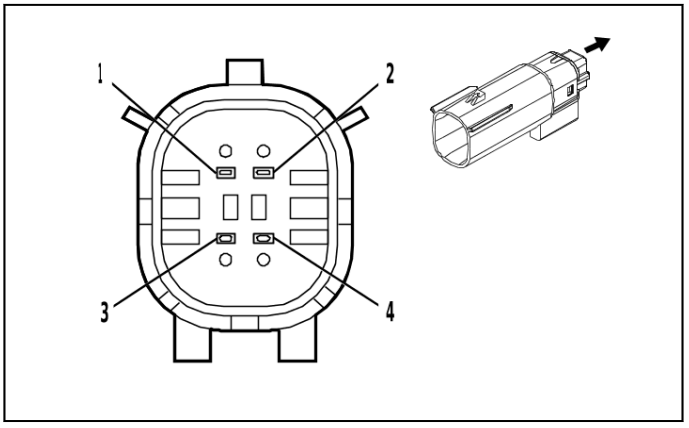
X414 Chassis Rear Wiring Harness to Chassis Wiring Harness

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) 10120	(1) I	(1) —	(1) AC Outlet 2 Phase A Control	(1) 1	(1) 0.75	(1) BK / WH	(1) 10120	(1) II	(1) —
(2) 2	(2) 0.5	(2) BN	(2) 10119	(2) I	(2) —	(2) AC Outlet 2 Low Reference	(2) 2	(2) 0.5	(2) BN	(2) 10119	(2) II	(2) —
(3) 3	(3) 0.5	(3) VT / RD	(3) 4049	(3) I	(3) —	(3) AC Power Outlet Sensor High Reference	(3) 3	(3) 0.5	(3) VT / RD	(3) 4049	(3) II	(3) —
(4) 4	(4) 0.75	(4) RD / WH	(4) 10121	(4) I	(4) —	(4) AC Outlet 2 Phase B Control	(4) 4	(4) 0.75	(4) RD / WH	(4) 10121	(4) II	(4) —
(5) 5	(5) 0.5	(5) GN / BN	(5) 2266	(5) I	(5) —	(5) DC/AC Inverter Control 2	(5) 5	(5) 0.5	(5) GN / BN	(5) 2266	(5) II	(5) —
(6) 6	(6) 0.5	(6) BK	(6) 1750	(6) I	(6) —	(6) Ground	(6) 6	(6) 1.5	(6) BK	(6) 1750	(6) II	(6) —

X415 Engine Wiring Harness to Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness



1960031



2368875

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 33472-4006
- Service Connector: 19368217
- Description: 4-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information
- Harness Type: Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness
- OEM Connector: 33482-4001
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.5 MX Series, Sealed(BK)

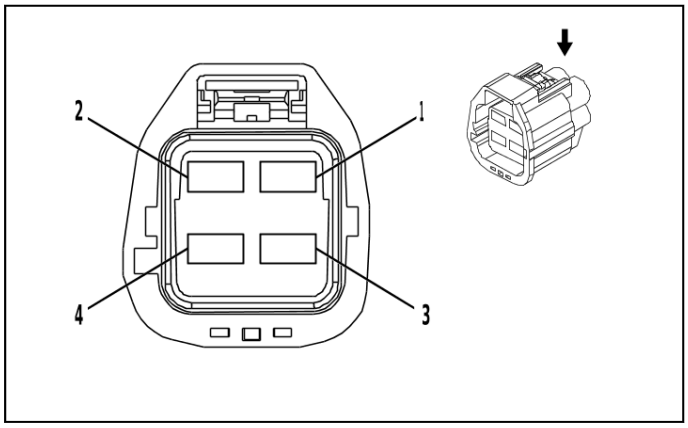
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-2A (GY)	No Tool Required
III	Not required	J-35616-3 (GY)	No Tool Required

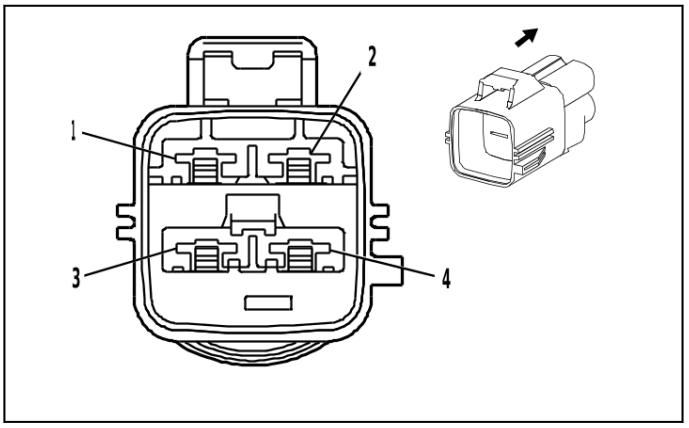
X415 Engine Wiring Harness to Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / BK	(1) 1570	(1) II	(1) —	(1) Front Axle Actuator Control	(1) 1	(1) 0.5	(1) GY / BK	(1) 1570	(1) III	(1) —
(2) 2	(2) 0.5	(2) YE / WH	(2) 1695	(2) II	(2) —	(2) 4WD Locked Range Indicator Control	(2) 2	(2) 0.5	(2) YE / WH	(2) 1695	(2) III	(2) —
(3) 3	(3) 0.5	(3) GN	(3) 8016	(3) II	(3) —	(3) Secondary Axle Motor Control	(3) 3	(3) 0.5	(3) GN	(3) 8016	(3) III	(3) —
(4) 4	(4) 1.5	(4) BK	(4) 450	(4) I	(4) —	(4) Ground	(4) 4	(4) 0.5	(4) BK	(4) 450	(4) III	(4) —

X420A Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness



2852121



1853524

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)

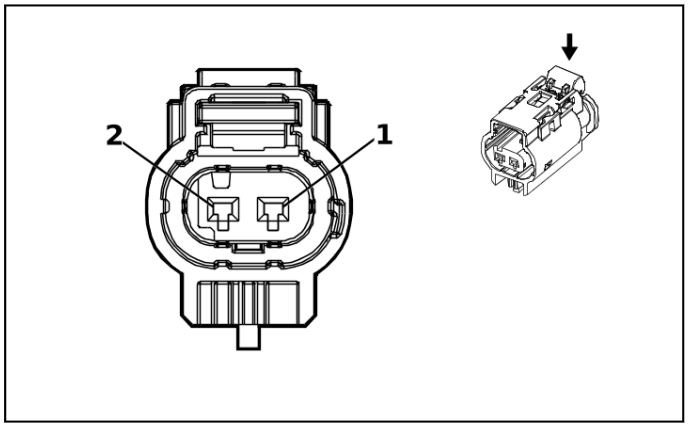
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required
II	Not required	J-35616-43 (RD)	No Tool Required

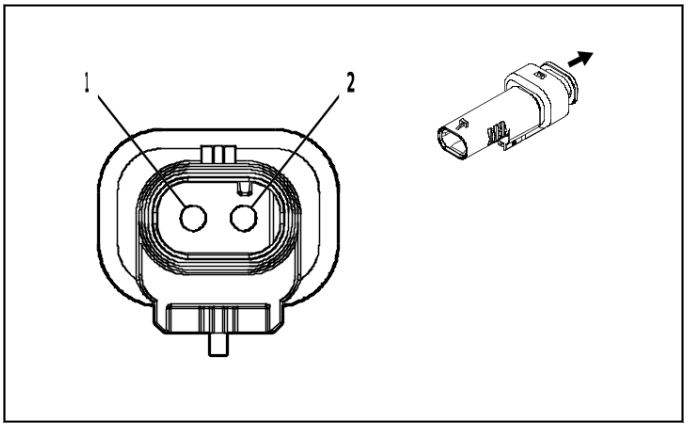
X420A Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) WH	(1) 2001	(1) I	(1) —	(1) Left Park Brake Motor Apply Control	(1) 1	(1) 4	(1) WH	(1) 2001	(1) II	(1) —
(2) 2	(2) 2.5	(2) GY / BK	(2) 4369	(2) I	(2) —	(2) Left Park Brake Motor Low Reference	(2) 2	(2) 4	(2) GY / BK	(2) 4369	(2) II	(2) —
(3) 3	(3) 2.5	(3) GN / VT	(3) 1988	(3) I	(3) —	(3) Right Park Brake Motor Apply Control	(3) 3	(3) 4	(3) GN / VT	(3) 1988	(3) II	(3) —
(4) 4	(4) 2.5	(4) GY	(4) 4368	(4) I	(4) —	(4) Right Park Brake Motor Low Reference	(4) 4	(4) 4	(4) GY	(4) 4368	(4) II	(4) —

X420B Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness (JBP - G94)



5207726



4992757

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)

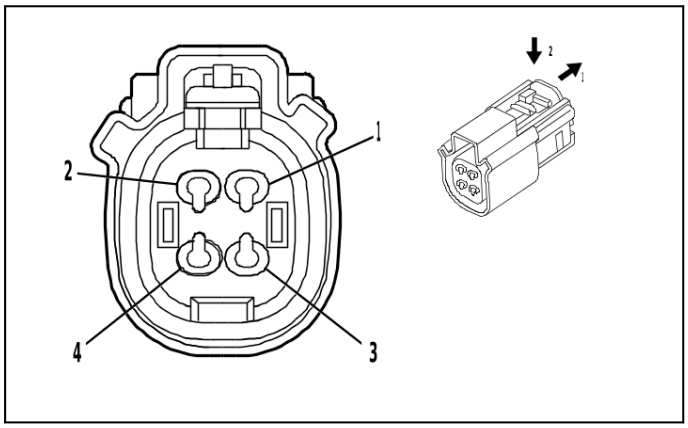
Terminal Part Information

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
III	Not required	J-35616-17 (L-GN)	No Tool Required

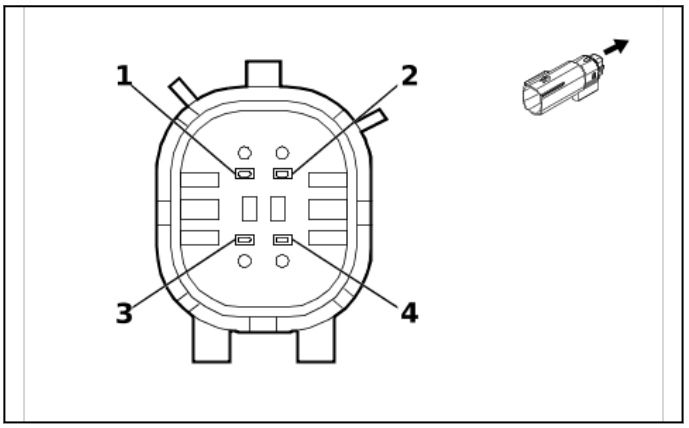
X420B Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness (JBP - G94)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GN / YE	(1) 1616	(1) I	(1) —	(1) Rear Brake Pad Wear Sensor Signal	(1) 1	(1) 0.5	(1) GN / YE	(1) 1616	(1) III	(1) —
(2) 2	(2) 0.75	(2) BK / WH	(2) 1751	(2) I	(2) —	(2) Signal Ground (2) Signal Ground	(2) 2	(2) 1 (2) 1	(2) BK / WH (2) BK / WH	(2) 1951 (2) 1151	(2) II (2) II	(2) JBP-G94+ (NV8/ BRS/ L5P) (2) JBP-G94- (NV8/ BRS/ L5P)

X420B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (JBP & G94)



3960090



5604894

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 33472-4007
- Service Connector: 19368970
- Description: 4-Way F 1.5 MX Series, Sealed(GY)

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 33482-4002
- Service Connector: Service by Harness - See Part Catalog
- Description: 4-Way M 1.5 MX Series, Sealed(GY)

Terminal Part Information

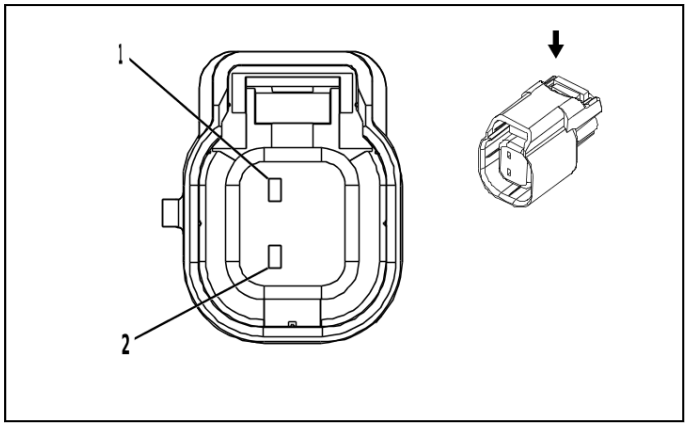
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X420B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (JBP & G94)

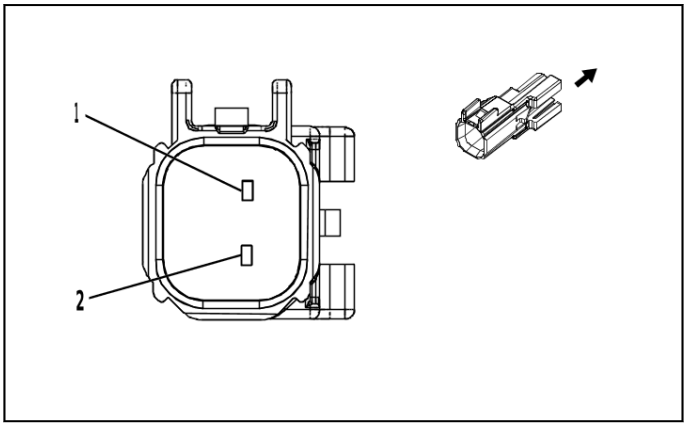
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GN / YE	(1) 1616	(1) I	(1) —	(1) Rear Brake Pad Wear Sensor Signal	(1) 1	(1) 0.75	(1) GN / YE	(1) 1616	(1) II	(1) —
(2) 2	(2) 0.75	(2) BK / WH	(2) 1951	(2) I	(2) —	(2) Signal Ground	(2) 2	(2) 0.75	(2) BK / WH	(2) 1751	(2) II	(2) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(3) 3	(3) 0.75	(3) GY / BK	(3) 7253	(3) I	(3) —	(3) Rear Differential Lock Actuator Low Control	(3) 3	(3) 0.75	(3) GY / BK	(3) 7253	(3) II	(3) —
(4) 4	(4) 0.75	(4) VT / BN	(4) 7258	(4) I	(4) —	(4) Rear Differential Lock Actuator Control	(4) 4	(4) 0.75	(4) VT / BN	(4) 7258	(4) II	(4) —

X421A Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (DZW - GTY)



4115616



3271068

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

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 85016385
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M Wheel Speed Sensor(BK)

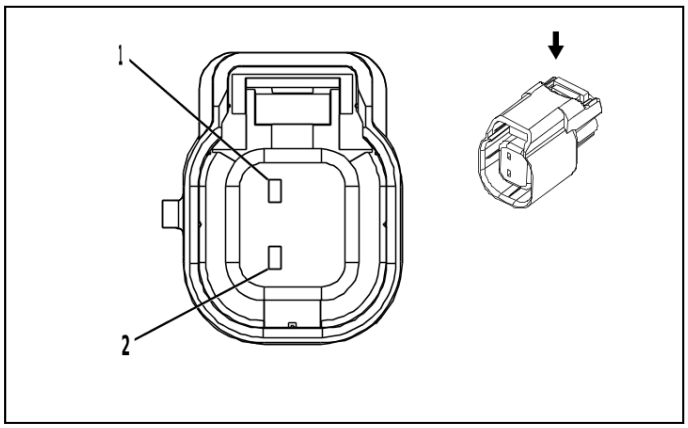
Terminal Part Information

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

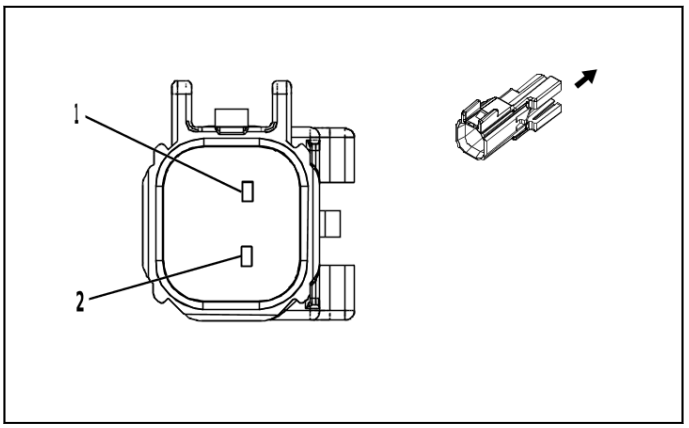
X421A Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (DZW - GTY)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / YE	(1) 7128	(1) I	(1) —	(1) Right Rear Wheel Speed Sensor Control	(1) 1	(1) 0.75	(1) TN	(1) 7128	(1) II	(1) —
(2) 2	(2) 0.5	(2) VT	(2) 882	(2) I	(2) —	(2) Right Rear Wheel Speed Sensor Signal	(2) 2	(2) 0.75	(2) OG	(2) 882	(2) II	(2) —

X421A Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (DZW & GTY)



4115616



3271068

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

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 85016387
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M Wheel Speed Sensor(BK)

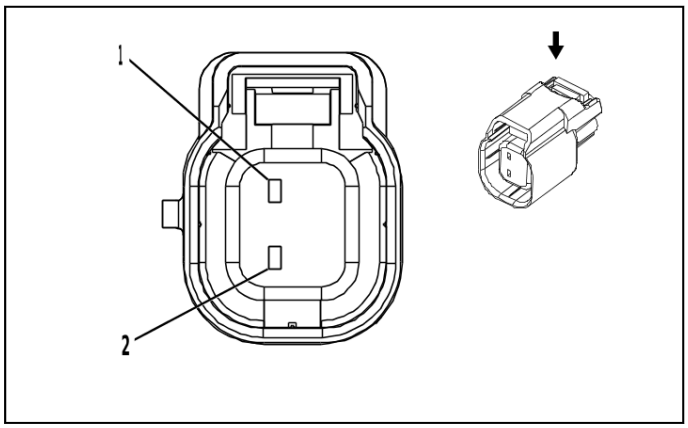
Terminal Part Information

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

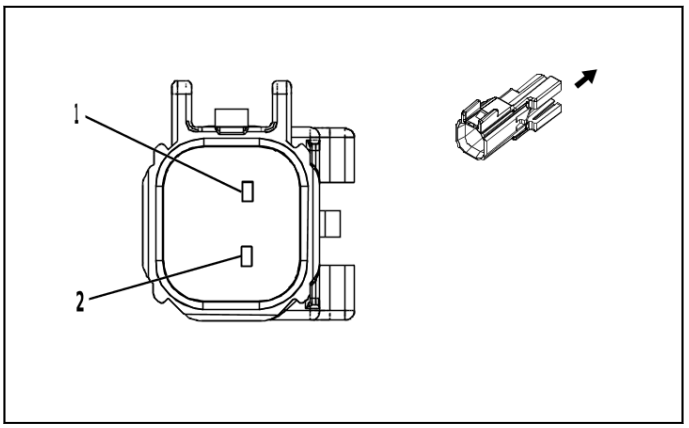
X421A Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (DZW & GTY)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / YE	(1) 7128	(1) I	(1) —	(1) Right Rear Wheel Speed Sensor Control	(1) 1	(1) 0.75	(1) TN	(1) 7128	(1) II	(1) —
(2) 2	(2) 0.5	(2) VT	(2) 882	(2) I	(2) —	(2) Right Rear Wheel Speed Sensor Signal	(2) 2	(2) 0.75	(2) OG	(2) 882	(2) II	(2) —

X421A Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (SRW)



4115616



3271068

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

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 85016383
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M Wheel Speed Sensor(BK)

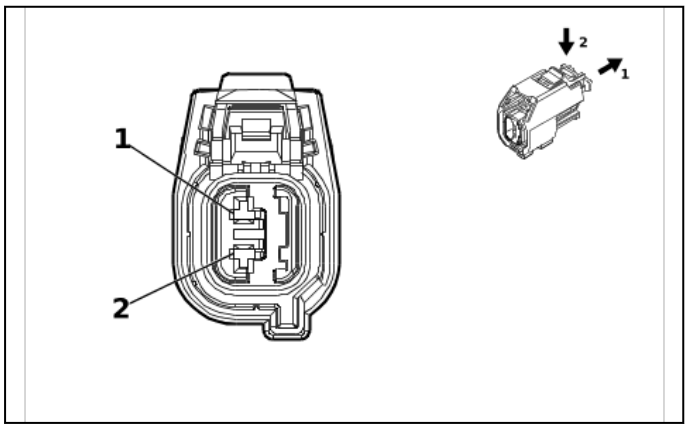
Terminal Part Information

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

X421A Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (SRW)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) GY / YE	(1) 7128	(1) I	(1) —	(1) Right Rear Wheel Speed Sensor Control	(1) 1	(1) 0.75	(1) TN	(1) 7128	(1) II	(1) —
(2) 2	(2) 0.5	(2) VT	(2) 882	(2) I	(2) —	(2) Right Rear Wheel Speed Sensor Signal	(2) 2	(2) 0.75	(2) OG	(2) 882	(2) II	(2) —

X421B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (- (DZW / GTY))



5666214

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

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 85016382
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M Wheel Speed Sensor(GY)

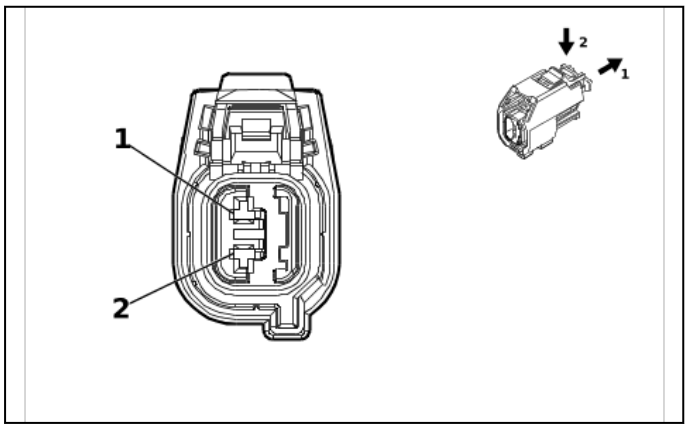
Terminal Part Information

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

X421B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (- (DZW / GTY))

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) 7127	(1) I	(1) —	(1) Left Rear Wheel Speed Sensor Control	(1) 1	(1) 0.75	(1) TN	(1) 7127	(1) II	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 884	(2) I	(2) —	(2) Left Rear Wheel Speed Sensor Signal	(2) 2	(2) 0.75	(2) OG	(2) 884	(2) II	(2) —

X421B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (DZW - GTY)



5666214

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

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 85016384
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M Wheel Speed Sensor(GY)

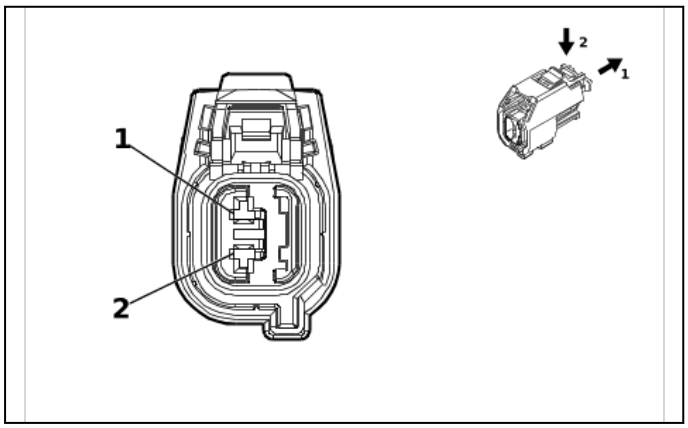
Terminal Part Information

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

X421B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (DZW - GTY)

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) 7127	(1) I	(1) —	(1) Left Rear Wheel Speed Sensor Control	(1) 1	(1) 0.75	(1) TN	(1) 7127	(1) II	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 884	(2) I	(2) —	(2) Left Rear Wheel Speed Sensor Signal	(2) 2	(2) 0.75	(2) OG	(2) 884	(2) II	(2) —

X421B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (GTY)



5666214

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

Connector Part Information
- Harness Type: Chassis Rear Wiring Harness Extension Harness
- OEM Connector: 85016386
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M Wheel Speed Sensor(GY)

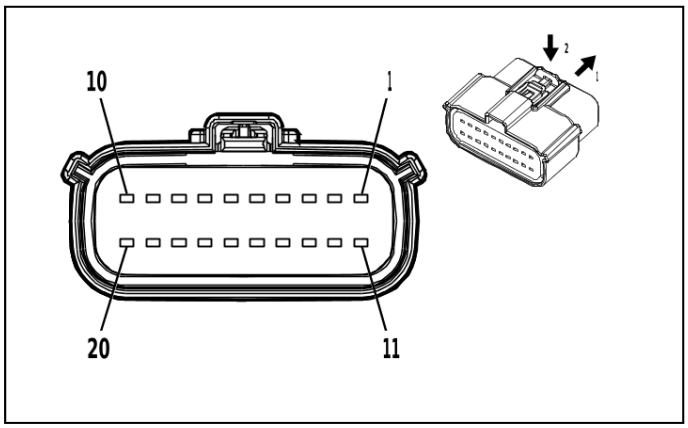
Terminal Part Information

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

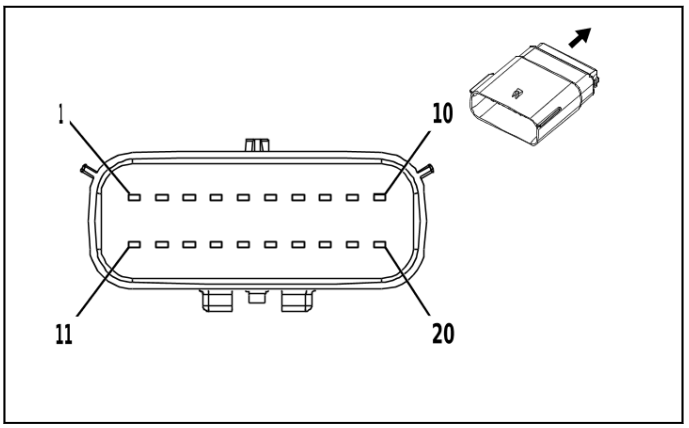
X421B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (GTY)

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) 7127	(1) I	(1) —	(1) Left Rear Wheel Speed Sensor Control	(1) 1	(1) 0.75	(1) TN	(1) 7127	(1) II	(1) —
(2) 2	(2) 0.5	(2) BU	(2) 884	(2) I	(2) —	(2) Left Rear Wheel Speed Sensor Signal	(2) 2	(2) 0.75	(2) OG	(2) 884	(2) II	(2) —

X424 Body Wiring Harness to Chassis Wiring Harness (- GTY)



4574194



2871861

Connector Part Information
- Harness Type: Body Wiring Harness
- OEM Connector: 35600460
- 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

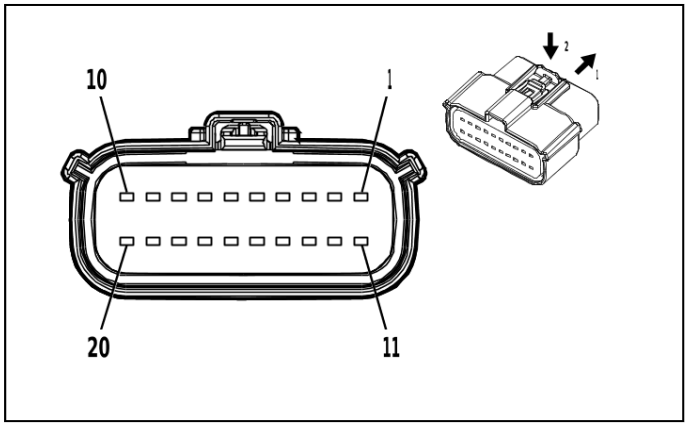
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368973	J-35616-2A (GY)	J-38125-217
II	86800300	J-35616-3 (GY)	J-38125-217

X424 Body Wiring Harness to Chassis Wiring Harness (- GTY)

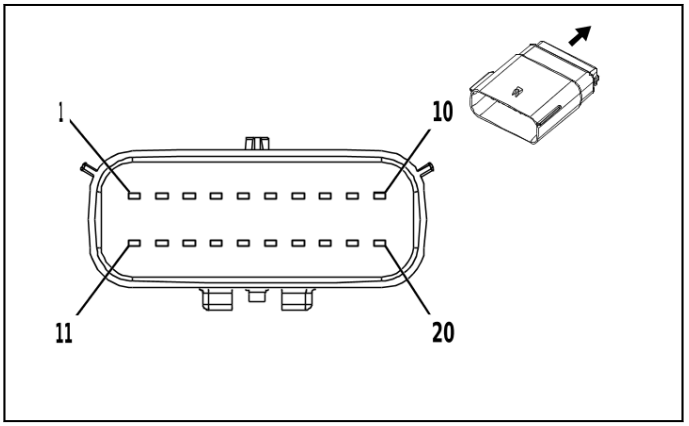
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.35	(1) YE	(1) 7115	(1) I	(1) —	(1) Rear Axle Differential Lock Indicator Control	(1) 1	(1) 0.5	(1) YE	(1) 7115	(1) II	(1) —
(2) 2	(2) 0.35	(2) YE / GN	(2) 7122	(2) I	(2) —	(2) Axle Differential Lock Switch Signal	(2) 2	(2) 0.5	(2) YE / GN	(2) 7122	(2) II	(2) —
(3) 3	(3) 0.5	(3) WH	(3) 4100	(3) I	(3) —	(3) AUTOSAR CAN Bus [-] 4 Serial Data	(3) 3	(3) 0.5	(3) WH	(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 - 8	—	—	—	—	—	Not Occupied	5 - 8	—	—	—	—	—
(9) 9	(9) 0.35	(9) YE	(9) 1144	(9) I	(9) —	(9) Endgate Release Switch Discrete Signal Exterior	(9) 9	(9) 0.5	(9) YE	(9) 1144	(9) II	(9) —
(10) 10	(10) 1	(10) GN	(10) 1299	(10) I	(10) —	(10) Major Endgate Motor Control	(10) 10	(10) 1	(10) GN	(10) 1299	(10) II	(10) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(11) 11	(11) 0.5	(11) WH	(11) 49 86	(11) I	(11) —	(11) AUTOSAR CAN Bus [-] 1 Serial Data	(11) 11	(11) 0.5	(11) WH	(11) 49 86	(11) II	(11) —
(12) 12	(12) 0.5	(12) BU	(12) 49 87	(12) I	(12) —	(12) AUTOSAR CAN Bus [+] 1 Serial Data	(12) 12	(12) 0.5	(12) BU	(12) 49 87	(12) II	(12) —
(13) 13	(13) 0.35	(13) YE / BU	(13) 72 95	(13) I	(13) —	(13) Left Minor Endgate Ajar Signal	(13) 13	(13) 0.75	(13) YE / BU	(13) 72 95	(13) II	(13) —
14	—	—	—	—	—	Not Occupied	14	—	—	—	—	—
(15) 15	(15) 1	(15) VT	(15) 77 25	(15) I	(15) —	(15) Minor Endgate Motor Control	(15) 15	(15) 1	(15) VT	(15) 77 25	(15) II	(15) —
(16) 16	(16) 1	(16) YE / BK	(16) 77 30	(16) I	(16) —	(16) Major Endgate Motor Low Reference	(16) 16	(16) 1	(16) YE / BK	(16) 77 30	(16) II	(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) II	(17) —
(18) 18	(18) 0.5	(18) BU	(18) 49 87	(18) I	(18) —	(18) AUTOSAR CAN Bus [+] 1 Serial Data	(18) 18	(18) 0.5	(18) BU	(18) 49 87	(18) II	(18) —
19 - 20	—	—	—	—	—	Not Occupied	19 - 20	—	—	—	—	—

X424 Body Wiring Harness to Chassis Wiring Harness (GTY)



4574194



2871861

Connector Part Information
- Harness Type: Body Wiring Harness
- OEM Connector: 35600460
- Service Connector: 19300557
- Description: 20-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 35504158
- Service Connector: 84769751
- Description: 20-Way M 1.5 MX Series, Sealed(BK)

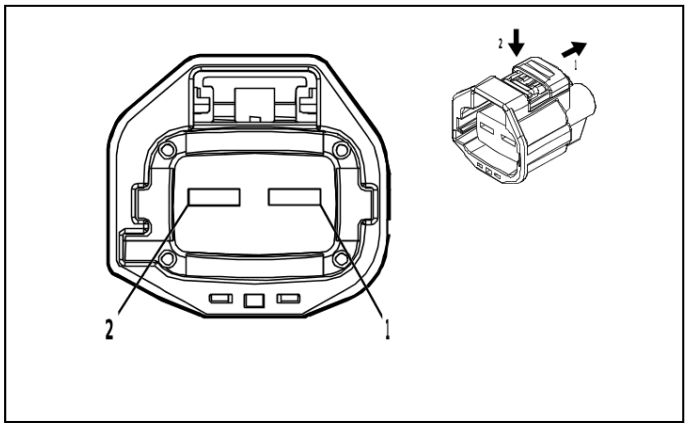
Terminal Part Information

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

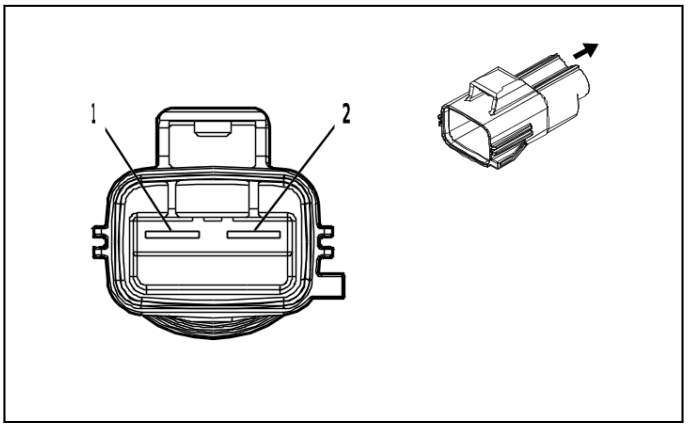
X424 Body Wiring Harness to Chassis Wiring Harness (GTY)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 10	—	—	—	—	—	Not Occupied	1 - 10	—	—	—	—	—
(11) 11	(11) 0.5	(11) WH	(11) 49 86	(11) I	(11) —	(11) AUTOSAR CAN Bus [-] 1 Serial Data	(11) 11	(11) 0.5	(11) WH	(11) 49 86	(11) II	(11) —
(12) 12	(12) 0.5	(12) BU	(12) 49 87	(12) I	(12) —	(12) AUTOSAR CAN Bus [+] 1 Serial Data	(12) 12	(12) 0.5	(12) BU	(12) 49 87	(12) II	(12) —
13 - 16	—	—	—	—	—	Not Occupied	13 - 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) II	(17) —
(18) 18	(18) 0.5	(18) BU	(18) 49 87	(18) I	(18) —	(18) AUTOSAR CAN Bus [+] 1 Serial Data	(18) 18	(18) 0.5	(18) BU	(18) 49 87	(18) II	(18) —
19 - 20	—	—	—	—	—	Not Occupied	19 - 20	—	—	—	—	—

X426 Battery Positive Cable to Chassis Wiring Harness (- K4Z)



4584202



4789729

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 7287-6196-10
- Service Connector: 19368222
- Description: 2-Way F 6.3 Series, Sealed(D-GY)

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 7286-9860-10
- Service Connector: 19368221
- Description: 2-Way M 6.3 YESC Series, Sealed(GY)

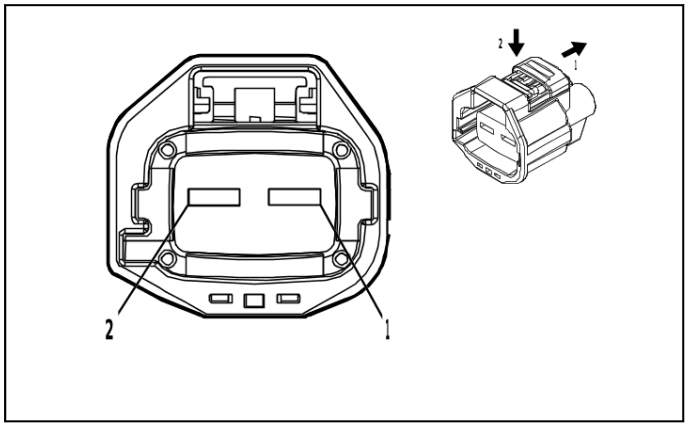
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required
II	Not required	J-35616-43 (RD)	No Tool Required

X426 Battery Positive Cable to Chassis Wiring Harness (- K4Z)

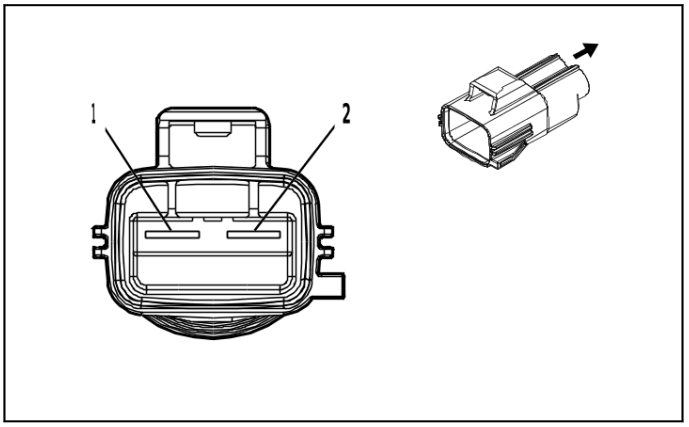
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 4	(1) RD / BU	(1) 3940	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 4	(1) OG	(1) 3640	(1) II	(1) —
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—

X426 Battery Positive Cable to Chassis Wiring Harness (K4Z)



4584202

Connector Part Information
- Harness Type: Battery Positive Cable
- OEM Connector: 7287-6196-10
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 6.3 Series, Sealed(D-GY)



4789729

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 7286-9860-10
- Service Connector: 19368221
- Description: 2-Way M 6.3 YESC Series, Sealed(GY)

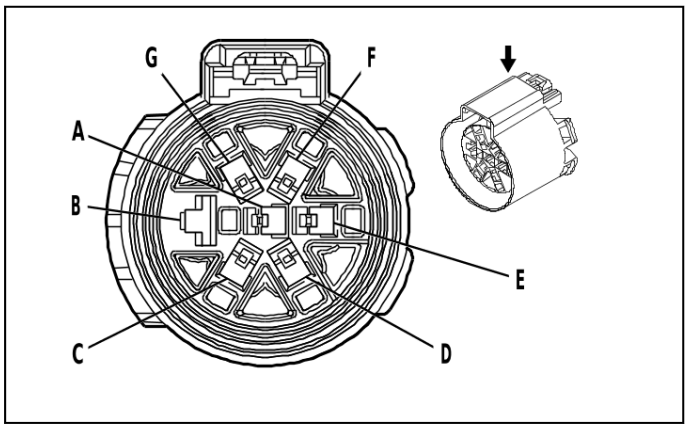
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-42 (RD)	No Tool Required
II	Not required	J-35616-43 (RD)	No Tool Required

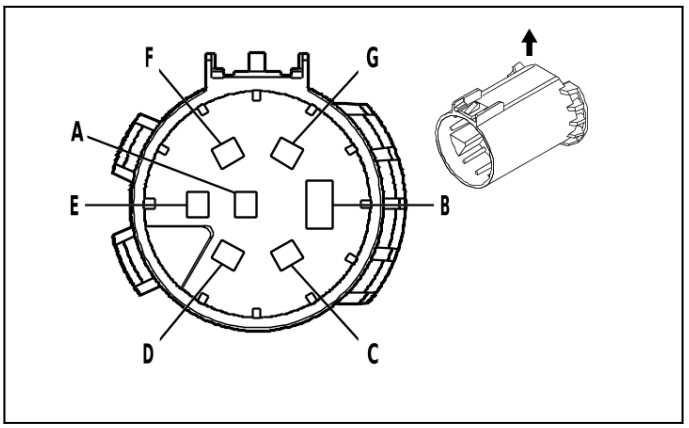
X426 Battery Positive Cable to Chassis Wiring Harness (K4Z)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 4	(1) RD / GN	(1) 842	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 4	(1) OG	(1) 3640	(1) II	(1) —
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—

X480 Chassis Wiring Harness to Trailer Rear Wiring Harness



2056936



366087

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)

Connector Part Information
- Harness Type: Trailer Rear Wiring Harness
- OEM Connector: 15317327
- Service Connector: Service by Harness - See Part Catalog
- Description: 7-Way M 280 Metri-Pack Series, Sealed(BK)

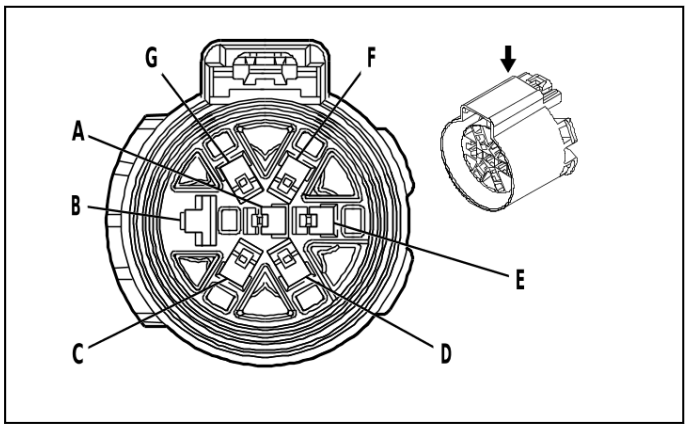
Terminal Part Information

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
III	Not required	J-35616-43 (RD)	No Tool Required
IV	Not required	J-35616-5 (PU)	No Tool Required

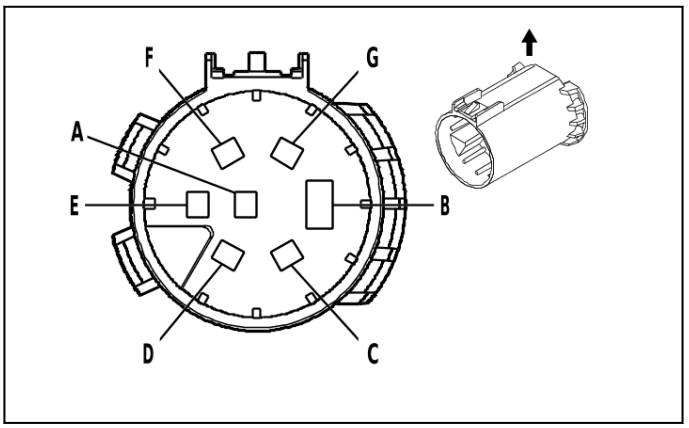
X480 Chassis Wiring Harness to Trailer Rear Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	1	GY	1624	II	—	Trailer Backup Lamp Control	A	1	GY	1624	IV	—
B	5	WH	22	I	—	Trailer Ground	B	5	WH	22	III	—
C	4	BU	47	II	—	Trailer Auxiliary Control	C	4	BU	47	IV	—
D	1	GN	1619	II	—	Right Rear Trailer Stop/ Turn Lamp Control	D	1	GN	1619	IV	—
E	4	OG	3640	II	—	Battery Positive Voltage	E	4	OG	3640	IV	—
F	1.5	BN	2109	II	—	Trailer Park Lamp Control	F	2	BN	2109	IV	—
G	1	YE	1618	II	—	Left Rear Trailer Stop/ Turn Lamp Control	G	1	YE	1618	IV	—

X481 Trailer Rear Wiring Harness to Trailer Rear Wiring Harness



2056936



366087

Connector Part Information
- Harness Type: Trailer Rear Wiring Harness
- OEM Connector: 13857223
- Service Connector: Service by Harness - See Part Catalog
- Description: 7-Way F 280, 630 Metri-Pack Series, Sealed(BK)

Connector Part Information
- Harness Type: Trailer Rear Wiring Harness
- OEM Connector: 15317327
- Service Connector: Service by Harness - See Part Catalog
- Description: 7-Way M 280 Metri-Pack Series, Sealed(BK)

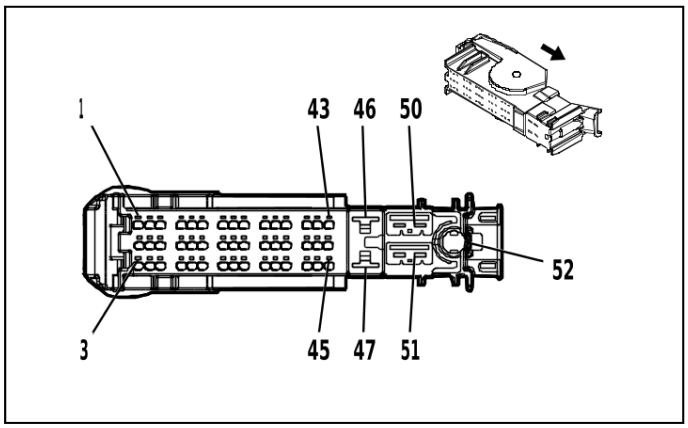
Terminal Part Information

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
III	Not required	J-35616-43 (RD)	No Tool Required
IV	Not required	J-35616-5 (PU)	No Tool Required

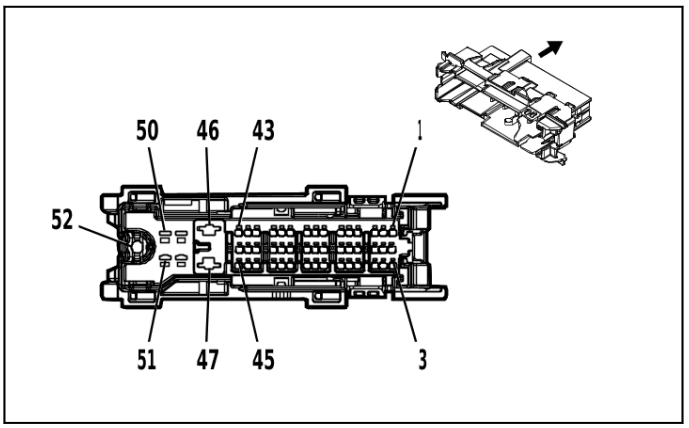
X481 Trailer Rear Wiring Harness to Trailer Rear Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	1	GY	1624	II	—	Trailer Backup Lamp Control	A	1	GY	1624	IV	—
B	5	WH	22	I	—	Trailer Ground	B	5	WH	22	III	—
C	4	BU	47	II	—	Trailer Auxiliary Control	C	4	BU	47	IV	—
D	1	GN	1619	II	—	Right Rear Trailer Stop/ Turn Lamp Control	D	1	GN	1619	IV	—
E	4	OG	3640	II	—	Battery Positive Voltage	E	4	OG	3640	IV	—
F	1.5	BN	2109	II	—	Trailer Park Lamp Control	F	2	BN	2109	IV	—
G	1	YE	1618	II	—	Left Rear Trailer Stop/ Turn Lamp Control	G	1	YE	1618	IV	—

X500 Front Side Door Door Wiring Harness - Left to Body Wiring Harness



4992530



4993484

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Left
- 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: 13527236
- 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-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required
III	Not required	J-35616-42 (RD)	No Tool Required
IV	Service by Cable	No Tool Required	No Tool Required
V	19301536	J-35616-43 (RD)	J-38125-11A
VI	84616651	J-35616-13 (BU)	J-38125-215A
VII	Service by Cable	No Tool Required	No Tool Required

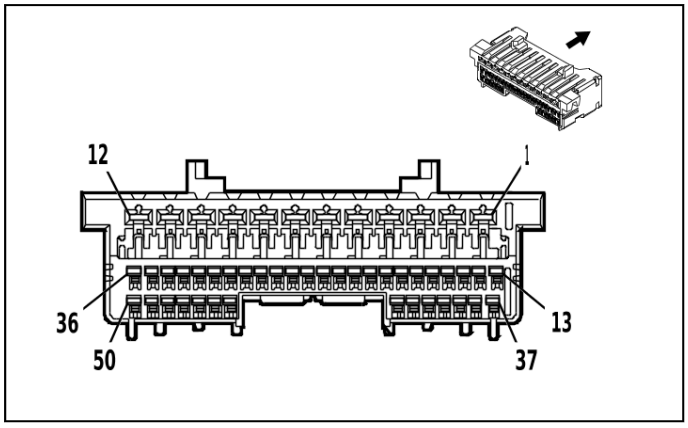
X500 Front Side Door Door Wiring Harness - Left to Body Wiring Harness

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) 1240	(2) II	(2) —	(2) Battery Positive Voltage	(2) 2	(2) 0.5	(2) RD / BU	(2) 1240	(2) VI	(2) —
3 - 6	—	—	—	—	—	Not Occupied	3 - 6	—	—	—	—	—
(7) 7	(7) 0.75	(7) BN / BU	(7) 118	(7) II	(7) —	(7) Left Front Speaker [-] Control 1	(7) 7	(7) 0.75	(7) BN / BU	(7) 118	(7) VI	(7) —
(8) 8	(8) 0.75	(8) BU	(8) 201	(8) II	(8) —	(8) Left Front Speaker 1 [+] Control	(8) 8	(8) 0.75	(8) BU	(8) 201	(8) VI	(8) —
(9) 9	(9) 0.5	(9) OG / GN	(9) 2132	(9) II	(9) —	(9) Left Front Side Impact Sensor Signal	(9) 9	(9) 0.5	(9) OG / GN	(9) 2132	(9) VI	(9) —

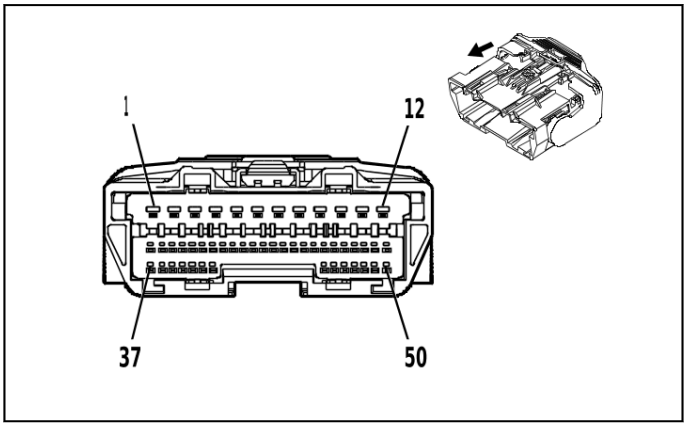
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(10) 10	(10) 0.5	(10) BK / OG	(10) 66 28	(10) II	(10) —	(10) Left Front Side Impact Sensor Low Reference	(10) 10	(10) 0.5	(10) BK / OG	(10) 66 28	(10) VI	(10) —
(11) 11	(11) 0.5	(11) VT	(11) 43 01	(11) II	(11) —	(11) Passive Entry Left Antenna Signal High	(11) 11	(11) 0.35	(11) VT	(11) 43 01	(11) VI	(11) —
(12) 12	(12) 0.5	(12) VT / GY	(12) 43 02	(12) II	(12) —	(12) Passive Entry Left Antenna Signal Low	(12) 12	(12) 0.35	(12) VT / GY	(12) 43 02	(12) VI	(12) —
(13) 13	(13) 0.5	(13) VT / GY	(13) 12 6	(13) II	(13) —	(13) Left Front Door Open Switch Signal	(13) 13	(13) 0.35	(13) VT / GY	(13) 12 6	(13) VI	(13) —
(14) 14	(14) 0.5	(14) YE / WH	(14) 16 90	(14) II	(14) —	(14) Mirror Dimming Signal	(14) 14	(14) 0.35	(14) YE / WH	(14) 16 90	(14) VI	(14) —
(15) 15	(15) 0.5	(15) BK / YE	(15) 16 91	(15) II	(15) —	(15) Automatic Day/Night Mirror Low Reference	(15) 15	(15) 0.35	(15) BK / YE	(15) 16 91	(15) VI	(15) —
(16) 16	(16) 0.5	(16) WH / GY	(16) 21 14	(16) II	(16) —	(16) Left Turn Signal Lamp Control 2	(16) 16	(16) 0.35	(16) WH / GY	(16) 21 14	(16) VI	(16) —
(17) 17	(17) 0.5	(17) BU	(17) 26 75	(17) II	(17) —	(17) Left Front Exterior Door Handle Switch Unlock Signal	(17) 17	(17) 0.35	(17) BU	(17) 26 75	(17) VI	(17) —
(18) 18	(18) 0.75	(18) WH	(18) 26 79	(18) II	(18) —	(18) Lock Actuators Unlock Control 1	(18) 18	(18) 0.75	(18) WH	(18) 26 79	(18) VI	(18) —
(19) 19	(19) 0.75	(19) GY	(19) 26 81	(19) II	(19) —	(19) Left Front Door Lock Actuator Lock Control	(19) 19	(19) 0.75	(19) GY	(19) 26 81	(19) VI	(19) —
20 - 22	—	—	—	—	—	Not Occupied	20 - 22	—	—	—	—	—
(23) 23	(23) 0.5	(23) WH / GN	(23) 59 66	(23) II	(23) —	(23) Approach Lamp Control	(23) 23	(23) 0.5	(23) WH / GN	(23) 59 66	(23) VI	(23) —
24	—	—	—	—	—	Not Occupied	24	—	—	—	—	—
(25) 25	(25) 0.5	(25) BU / GN	(25) 61 4	(25) II	(25) —	(25) Seat Memory Switch Set Signal	(25) 25	(25) 0.35	(25) BU / GN	(25) 61 4	(25) VI	(25) —
(26) 26	(26) 0.5	(26) BU / YE	(26) 77 61	(26) II	(26) —	(26) Backup Illumination Lamp Control	(26) 26	(26) 0.35	(26) BU / YE	(26) 77 61	(26) VI	(26) —
(27) 27	(27) 0.35	(27) YE	(27) 68 17	(27) I	(27) —	(27) LED Backlight Dimming Control 1	(27) 27	(27) 0.5	(27) YE	(27) 68 17	(27) VI	(27) —
28	—	—	—	—	—	Not Occupied	28	—	—	—	—	—

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(29) 29	(29) 0.5	(29) GN / YE	(29) 61 34	(29) II	(29) —	(29) Body Control Module LIN Bus 3	(29) 29	(29) 0.35	(29) GN / YE	(29) 61 34	(29) VI	(29) —
(30) 30	(30) 0.5	(30) BN / GN	(30) 42 46	(30) II	(30) —	(30) Identification Lamp Control	(30) 30	(30) 0.5	(30) BN / GN	(30) 42 46	(30) VI	(30) —
(31) 31	(31) 0.5	(31) BK / WH	(31) 15 51	(31) II	(31) —	(31) Signal Ground	(31) 31	(31) 0.5	(31) BK / WH	(31) 15 51	(31) VI	(31) —
(32) 32	(32) 0.35	(32) YE / GY	(32) 29 33	(32) I	(32) —	(32) Task Lamp Control Left	(32) 32	(32) 0.35	(32) YE / GY	(32) 29 33	(32) VI	(32) —
(33) 33	(33) 0.5	(33) WH	(33) 61 5	(33) II	(33) —	(33) Seat Memory Switch Signal 1	(33) 33	(33) 0.35	(33) WH	(33) 61 5	(33) VI	(33) —
34 - 45	—	—	—	—	—	Not Occupied	34 - 45	—	—	—	—	—
(46) 46	(46) 2.5	(46) RD / GY	(46) 35 40	(46) III	(46) —	(46) Battery Positive Voltage	(46) 46	(46) 2.5	(46) RD / GY	(46) 35 40	(46) V	(46) —
(47) 47	(47) 2.5	(47) BK	(47) 15 50	(47) III	(47) —	(47) Ground	(47) 47	(47) 2.5	(47) BK	(47) 15 50	(47) V	(47) —
48 - 51	—	—	—	—	—	Not Occupied	48 - 51	—	—	—	—	—
(52) 52	(52) 0	(52) Coax Cable	(52) 47 25	(52) IV	(52) —	(52) Left Sideview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(52) 52	(52) 0	(52) Coax Cable	(52) 47 25	(52) VII	(52) —

X505 Front Side Door Door Wiring Harness - Left to Front Side Door Door Lock Door Wiring Harness - Left



4997556



5022037

Connector Part Information

- Harness Type: Front Side Door Door Wiring Harness - Left
- 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 - Left
- 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-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required
III	Not required	J-35616-4A (PU)	No Tool Required
IV	Not required	J-35616-17 (L-GN)	No Tool Required
V	Not required	J-35616-5 (PU)	No Tool Required

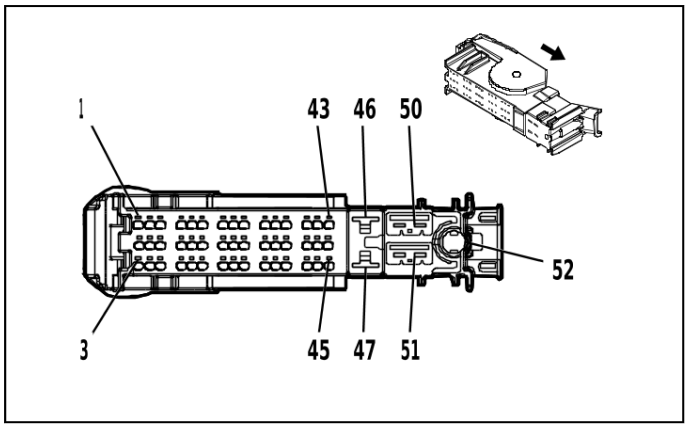
X505 Front Side Door Door Wiring Harness - Left to Front Side Door Door Lock Door Wiring Harness - Left

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) 1240	(1) III	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / BU	(1) 1240	(1) V	(1) —
(2) 2	(2) 0.5	(2) GY / YE	(2) 1760	(2) III	(2) —	(2) Left Side Object Detection LED Control	(2) 2	(2) 0.35	(2) GY / YE	(2) 1760	(2) V	(2) —
3	—	—	—	—	—	Not Occupied	3	—	—	—	—	—
(4) 4	(4) 0.5	(4) GY / GN	(4) 2763	(4) III	(4) —	(4) Window Switch Left Front Up Signal	(4) 4	(4) 0.5	(4) GY / GN	(4) 2763	(4) V	(4) —
(5) 5	(5) 0.5	(5) BN	(5) 10201	(5) III	(5) —	(5) Left Front Mirror Motor Extend Control	(5) 5	(5) 0.5	(5) BN	(5) 10201	(5) V	(5) —
(6) 6	(6) 0.5	(6) WH / BN	(6) 2764	(6) III	(6) —	(6) Window Switch Left Front Down Signal	(6) 6	(6) 0.5	(6) WH / BN	(6) 2764	(6) V	(6) —
7	—	—	—	—	—	Not Occupied	7	—	—	—	—	—
(8) 8	(8) 0.5	(8) GN	(8) 2766	(8) III	(8) —	(8) Power Window Switch Left Front Express Signal	(8) 8	(8) 0.5	(8) GN	(8) 2766	(8) V	(8) —
(9) 9	(9) 0.5	(9) WH / BK	(9) 10202	(9) III	(9) —	(9) Left Front Mirror Motor Retract Control	(9) 9	(9) 0.5	(9) WH / BK	(9) 10202	(9) V	(9) —
10 - 11	—	—	—	—	—	Not Occupied	10 - 11	—	—	—	—	—
(12) 12	(12) 0.5	(12) GY / WH	(12) 2785	(12) III	(12) —	(12) Left Front Mirror Motor Fold Out Control	(12) 12	(12) 0.5	(12) GY / WH	(12) 2785	(12) V	(12) —
(13) 13	(13) 0.5	(13) WH / GN	(13) 2786	(13) II	(13) —	(13) Left Front Mirror Motor Fold In Control	(13) 13	(13) 0.5	(13) WH / GN	(13) 2786	(13) IV	(13) —
(14) 14	(14) 0.5	(14) GY / BN	(14) 2787	(14) II	(14) —	(14) Left Front Mirror Position Sensor Up [+] Down [-] Signal	(14) 14	(14) 0.5	(14) GY / BN	(14) 2787	(14) IV	(14) —

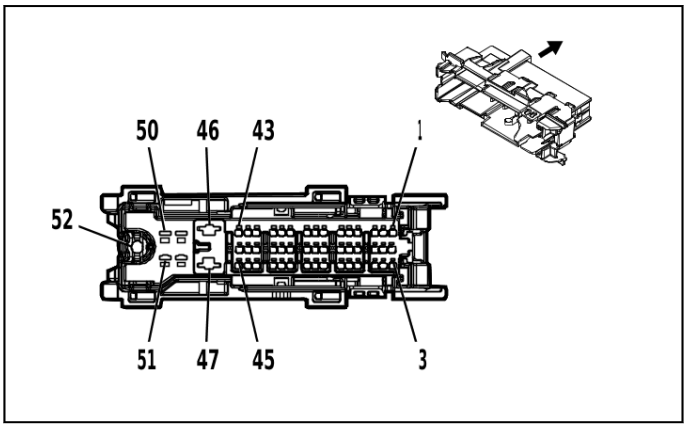
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(15) 15	(15) 0.5	(15) VT / BU	(15) 27 88	(15) II	(15) —	(15) Left Front Mirror Motor Up [+] Down [-] Control	(15) 15	(15) 0.5	(15) VT / BU	(15) 27 88	(15) IV	(15) —
(16) 16	(16) 0.5	(16) YE / BN	(16) 27 89	(16) II	(16) —	(16) Left Front Mirror Motor Common Control	(16) 16	(16) 0.5	(16) YE / BN	(16) 27 89	(16) IV	(16) —
(17) 17	(17) 0.5	(17) BN / BK	(17) 27 90	(17) II	(17) —	(17) Left Front Mirror Motor Right [+] Left [-] Control	(17) 17	(17) 0.5	(17) BN / BK	(17) 27 90	(17) IV	(17) —
(18) 18	(18) 0.5	(18) VT / RD	(18) 27 91	(18) II	(18) —	(18) Left Front Mirror Position Sensor High Reference	(18) 18	(18) 0.5	(18) VT / RD	(18) 27 91	(18) IV	(18) —
(19) 19	(19) 0.5	(19) WH / YE	(19) 27 92	(19) II	(19) —	(19) Left Front Mirror Position Sensor Left [-] Right [+] Signal	(19) 19	(19) 0.5	(19) WH / YE	(19) 27 92	(19) IV	(19) —
(20) 20	(20) 0.5	(20) WH	(20) 60 6	(20) II	(20) —	(20) Left Outside Rearview Mirror Heater Control	(20) 20	(20) 0.5	(20) WH	(20) 60 6	(20) IV	(20) —
(21) 21	(21) 0.5	(21) GN / YE	(21) 61 34	(21) II	(21) —	(21) Body Control Module LIN Bus 3	(21) 21	(21) 0.5	(21) GN / YE	(21) 61 34	(21) IV	(21) —
(22) 22	(22) 0.5	(22) BU / GN	(22) 61 4	(22) II	(22) —	(22) Seat Memory Switch Set Signal	(22) 22	(22) 0.5	(22) BU / GN	(22) 61 4	(22) IV	(22) —
(23) 23	(23) 0.5	(23) WH	(23) 61 5	(23) II	(23) —	(23) Seat Memory Switch Signal 1	(23) 23	(23) 0.5	(23) WH	(23) 61 5	(23) IV	(23) —
(24) 24	(24) 0.5	(24) BK / BN	(24) 67 3	(24) II	(24) —	(24) Left Outside Rearview Mirror Position Sensor Low Reference	(24) 24	(24) 0.5	(24) BK / BN	(24) 67 3	(24) IV	(24) —
(25) 25	(25) 0.35	(25) YE	(25) 68 17	(25) I	(25) —	(25) LED Backlight Dimming Control 1	(25) 25	(25) 0.5	(25) YE	(25) 68 17	(25) IV	(25) —
26	—	—	—	—	—	Not Occupied	26	—	—	—	—	—
(27) 27	(27) 0.5	(27) BK	(27) 15 50	(27) II	(27) —	(27) Ground	(27) 27	(27) 0.5	(27) BK	(27) 15 50	(27) IV	(27) —
(28) 28	(28) 0.5	(28) BK / WH	(28) 15 51	(28) II	(28) —	(28) Signal Ground	(28) 28	(28) 0.5	(28) BK / WH	(28) 15 51	(28) IV	(28) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(29) 29	(29) 0.5	(29) WH / VT	(29) 42 58	(29) II	(29) —	(29) Left Front Door Lock Status Signal	(29) 29	(29) 0.5	(29) WH / VT	(29) 42 58	(29) IV	(29) —
30 - 50	—	—	—	—	—	Not Occupied	30 - 50	—	—	—	—	—

X600 Front Side Door Door Wiring Harness - Right to Body Wiring Harness



4992530



4993484

Connector Part Information
- Harness Type: Front Side Door Door Wiring Harness - Right
- 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: 13527236
- 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-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required
III	Not required	J-35616-42 (RD)	No Tool Required
IV	Service by Cable	No Tool Required	No Tool Required
V	19301536	J-35616-43 (RD)	J-38125-11A
VI	84616651	J-35616-13 (BU)	J-38125-215A
VII	Service by Cable	No Tool Required	No Tool Required

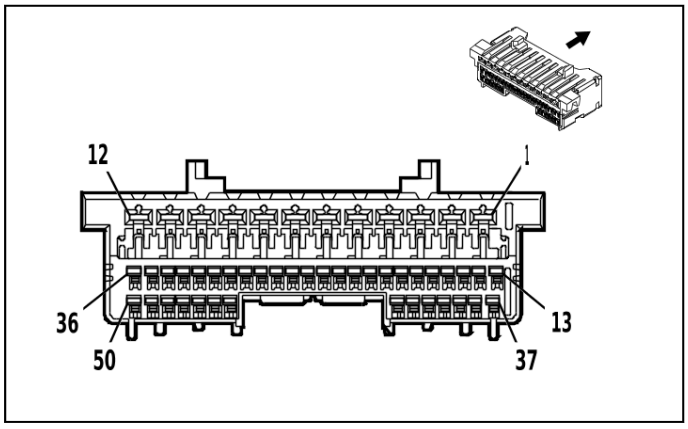
X600 Front Side Door Door Wiring Harness - Right to Body Wiring Harness

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) II	(5) —	(5) Right Front Speaker 1 [+] Control	(5) 5	(5) 0.75	(5) YE	(5) 200	(5) VI	(5) —

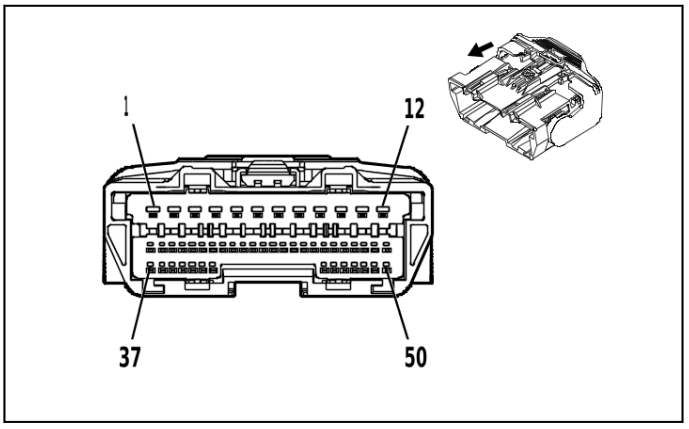
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(6) 6	(6) 0.75	(6) YE / BK	(6) 117	(6) II	(6) —	(6) Right Front Speaker [-] Control 1	(6) 6	(6) 0.75	(6) YE / BK	(6) 117	(6) VI	(6) —
7	—	—	—	—	—	Not Occupied	7	—	—	—	—	—
(8) 8	(8) 0.5	(8) BN / OG	(8) 2134	(8) II	(8) —	(8) Right Front Side Impact Sensor Signal	(8) 8	(8) 0.5	(8) BN / OG	(8) 2134	(8) VI	(8) —
(9) 9	(9) 0.5	(9) BK / OG	(9) 6629	(9) II	(9) —	(9) Right Front Side Impact Sensor Low Reference	(9) 9	(9) 0.5	(9) BK / OG	(9) 6629	(9) VI	(9) —
(10) 10	(10) 0.5	(10) GN / YE	(10) 4303	(10) II	(10) —	(10) Passive Entry Right Antenna Signal High	(10) 10	(10) 0.35	(10) GN / YE	(10) 4303	(10) VI	(10) —
(11) 11	(11) 0.5	(11) GN / BK	(11) 4304	(11) II	(11) —	(11) Passive Entry Right Antenna Signal Low	(11) 11	(11) 0.35	(11) GN / BK	(11) 4304	(11) VI	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
(13) 13	(13) 0.5	(13) GN / GY	(13) 2115	(13) II	(13) —	(13) Right Turn Signal Lamp Control 2	(13) 13	(13) 0.35	(13) GN / GY	(13) 2115	(13) VI	(13) —
(14) 14	(14) 0.5	(14) GY / VT	(14) 2676	(14) II	(14) —	(14) Right Front Door Exterior Switch Unlock Signal	(14) 14	(14) 0.35	(14) GY / VT	(14) 2676	(14) VI	(14) —
(15) 15	(15) 0.75	(15) GY / BK	(15) 2680	(15) II	(15) —	(15) Lock Actuators Unlock Control 2	(15) 15	(15) 0.75	(15) GY / BK	(15) 2680	(15) VI	(15) —
(16) 16	(16) 0.75	(16) YE / GN	(16) 2682	(16) II	(16) —	(16) Right Front Door Lock Actuator Lock Control	(16) 16	(16) 0.75	(16) YE / GN	(16) 2682	(16) VI	(16) —
17 - 19	—	—	—	—	—	Not Occupied	17 - 19	—	—	—	—	—
(20) 20	(20) 0.5	(20) WH / GN	(20) 5966	(20) II	(20) —	(20) Approach Lamp Control	(20) 20	(20) 0.5	(20) WH / GN	(20) 5966	(20) VI	(20) —
21	—	—	—	—	—	Not Occupied	21	—	—	—	—	—
(22) 22	(22) 0.5	(22) BK / GY	(22) 626	(22) II	(22) —	(22) Engine Control Vehicle Sensors Low Reference 1	(22) 22	(22) 0.5	(22) BK / GY	(22) 626	(22) VI	(22) —
(23) 23	(23) 0.5	(23) BU / GY	(23) 636	(23) II	(23) —	(23) Ambient Air Temperature Sensor Signal	(23) 23	(23) 0.5	(23) BU / GY	(23) 636	(23) VI	(23) —
(24) 24	(24) 0.35	(24) YE	(24) 6817	(24) I	(24) —	(24) LED Backlight Dimming Control 1	(24) 24	(24) 0.5	(24) YE	(24) 6817	(24) VI	(24) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
25	—	—	—	—	—	Not Occupied	25	—	—	—	—	—
(26) 26	(26) 0.5	(26) BU / YE	(26) 77 61	(26) II	(26) —	(26) Backup Illumination Lamp Control	(26) 26	(26) 0.35	(26) BU / YE	(26) 77 61	(26) VI	(26) —
27	—	—	—	—	—	Not Occupied	27	—	—	—	—	—
(28) 28	(28) 0.5	(28) BK / WH	(28) 14 51	(28) II	(28) —	(28) Signal Ground	(28) 28	(28) 0.75	(28) BK / WH	(28) 14 51	(28) VI	(28) —
(29) 29	(29) 0.5	(29) GN / YE	(29) 61 34	(29) II	(29) —	(29) Body Control Module LIN Bus 3	(29) 29	(29) 0.35	(29) GN / YE	(29) 61 34	(29) VI	(29) —
(30) 30	(30) 0.35	(30) YE / WH	(30) 29 34	(30) I	(30) —	(30) Task Lamp Control Right	(30) 30	(30) 0.35	(30) YE / WH	(30) 29 34	(30) VI	(30) —
(31) 31	(31) 0.5	(31) BN / GN	(31) 42 46	(31) II	(31) —	(31) Identification Lamp Control	(31) 31	(31) 0.5	(31) BN / GN	(31) 42 46	(31) VI	(31) —
32 - 43	—	—	—	—	—	Not Occupied	32 - 43	—	—	—	—	—
(44) 44	(44) 0.5	(44) BK / YE	(44) 16 91	(44) II	(44) —	(44) Automatic Day/Night Mirror Low Reference	(44) 44	(44) 0.35	(44) BK / YE	(44) 16 91	(44) VI	(44) —
(45) 45	(45) 0.5	(45) YE / WH	(45) 16 90	(45) II	(45) —	(45) Mirror Dimming Signal	(45) 45	(45) 0.35	(45) YE / WH	(45) 16 90	(45) VI	(45) —
(46) 46	(46) 2.5	(46) RD / BN	(46) 42 40	(46) III	(46) —	(46) Battery Positive Voltage	(46) 46	(46) 2.5	(46) RD / BN	(46) 42 40	(46) V	(46) —
(47) 47	(47) 2.5	(47) BK	(47) 13 50	(47) III	(47) —	(47) Ground	(47) 47	(47) 2.5	(47) BK	(47) 13 50	(47) V	(47) —
48 - 51	—	—	—	—	—	Not Occupied	48 - 51	—	—	—	—	—
(52) 52	(52) 0	(52) Coax Cable	(52) 47 24	(52) IV	(52) —	(52) Right Sideview Camera LVDS (Low Voltage Differential Signaling) Coaxial Signal	(52) 52	(52) 0	(52) Coax Cable	(52) 47 24	(52) VII	(52) —

X605 Front Side Door Door Wiring Harness - Right to Front Side Door Door Lock Door Wiring Harness - Right



4997556



5022037

Connector Part Information
- Harness Type: Front Side Door Door Wiring Harness - Right
- 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 - Right
- 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-35616-12 (BU)	No Tool Required
II	Not required	J-35616-16 (L-GN)	No Tool Required
III	Not required	J-35616-4A (PU)	No Tool Required
IV	Not required	J-35616-17 (L-GN)	No Tool Required
V	Not required	J-35616-5 (PU)	No Tool Required

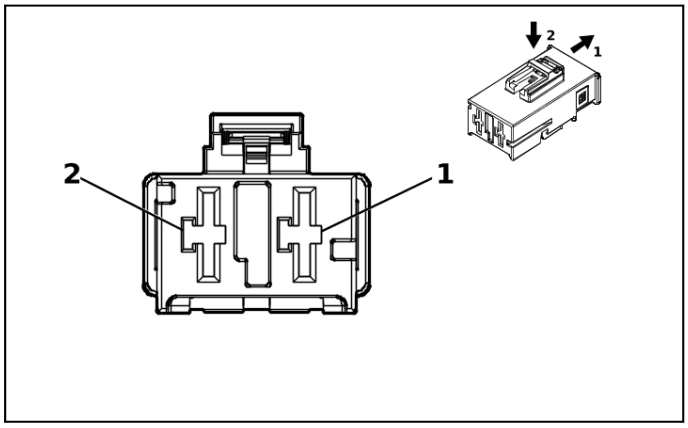
X605 Front Side Door Door Wiring Harness - Right to Front Side Door Door Lock Door Wiring Harness - Right

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) 4240	(1) III	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 2.5	(1) RD / BN	(1) 4240	(1) V	(1) —
(2) 2	(2) 0.5	(2) GN	(2) 1184	(2) III	(2) —	(2) Window Switch Right Front Up Signal	(2) 2	(2) 0.5	(2) GN	(2) 1184	(2) V	(2) —
(3) 3	(3) 0.5	(3) GY	(3) 1761	(3) III	(3) —	(3) Right Side Object Detection LED Control	(3) 3	(3) 0.35	(3) GY	(3) 1761	(3) V	(3) —
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
(5) 5	(5) 0.5	(5) VT / GY	(5) 2765	(5) III	(5) —	(5) Window Switch Right Front Express Signal	(5) 5	(5) 0.5	(5) VT / GY	(5) 2765	(5) V	(5) —
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

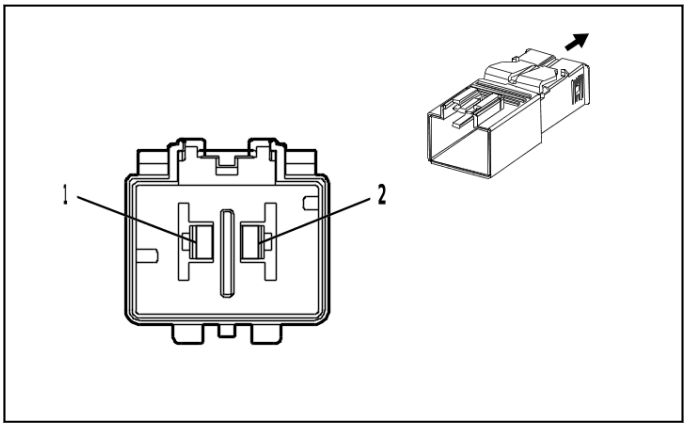
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(8) 8	(8) 0.5	(8) YE / WH	(8) 2793	(8) III	(8) —	(8) Right Front Mirror Motor Fold Out Control	(8) 8	(8) 0.5	(8) YE / WH	(8) 2793	(8) V	(8) —
(9) 9	(9) 0.5	(9) BU / GY	(9) 2794	(9) III	(9) —	(9) Right Front Mirror Motor Fold In Control	(9) 9	(9) 0.5	(9) BU / GY	(9) 2794	(9) V	(9) —
(10) 10	(10) 2.5	(10) BK	(10) 1350	(10) III	(10) —	(10) Ground	(10) 10	(10) 2.5	(10) BK	(10) 1350	(10) V	(10) —
(11) 11	(11) 2	(11) GN / GY	(11) 666	(11) III	(11) —	(11) Right Front Window Motor Up Control	(11) 11	(11) 2.5	(11) GN / GY	(11) 666	(11) V	(11) —
(12) 12	(12) 2	(12) YE / BU	(12) 667	(12) III	(12) —	(12) Right Front Window Motor Down Control	(12) 12	(12) 2.5	(12) YE / BU	(12) 667	(12) V	(12) —
(13) 13	(13) 0.5	(13) GN / BK	(13) 2798	(13) II	(13) —	(13) Right Front Mirror Motor Right [+] Left [-] Control	(13) 13	(13) 0.5	(13) GN / BK	(13) 2798	(13) IV	(13) —
(14) 14	(14) 0.5	(14) YE / RD	(14) 2799	(14) II	(14) —	(14) Right Front Mirror Position Sensor High Reference	(14) 14	(14) 0.5	(14) YE / RD	(14) 2799	(14) IV	(14) —
(15) 15	(15) 0.5	(15) VT / WH	(15) 2800	(15) II	(15) —	(15) Right Front Mirror Position Sensor Left [-] Right [+] Signal	(15) 15	(15) 0.5	(15) VT / WH	(15) 2800	(15) IV	(15) —
(16) 16	(16) 0.5	(16) BN	(16) 5295	(16) II	(16) —	(16) Window Switch Right Front Down Signal	(16) 16	(16) 0.5	(16) BN	(16) 5295	(16) IV	(16) —
(17) 17	(17) 0.5	(17) BN / VT	(17) 607	(17) II	(17) —	(17) Right Outside Rearview Mirror Heater Control	(17) 17	(17) 0.5	(17) BN / VT	(17) 607	(17) IV	(17) —
(18) 18	(18) 0.5	(18) GN / YE	(18) 6134	(18) II	(18) —	(18) Body Control Module LIN Bus 3	(18) 18	(18) 0.5	(18) GN / YE	(18) 6134	(18) IV	(18) —
(19) 19	(19) 0.5	(19) BN / GN	(19) 10203	(19) II	(19) —	(19) Right Front Mirror Motor Extend Control	(19) 19	(19) 0.5	(19) BN / GN	(19) 10203	(19) IV	(19) —
(20) 20	(20) 0.5	(20) VT	(20) 10204	(20) II	(20) —	(20) Right Front Mirror Motor Retract Control	(20) 20	(20) 0.5	(20) VT	(20) 10204	(20) IV	(20) —
(21) 21	(21) 0.5	(21) BK / GN	(21) 675	(21) II	(21) —	(21) Right Outside Rearview Mirror Position Sensor Low Reference	(21) 21	(21) 0.5	(21) BK / GN	(21) 675	(21) IV	(21) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(22) 22	(22) 0.35	(22) YE	(22) 68 17	(22) I	(22) —	(22) LED Backlight Dimming Control 1	(22) 22	(22) 0.5	(22) YE	(22) 68 17	(22) IV	(22) —
23 - 46	—	—	—	—	—	Not Occupied	23 - 46	—	—	—	—	—
(47) 47	(47) 0.5	(47) GY	(47) 74 6	(47) II	(47) —	(47) Right Front Door Ajar Switch Signal	(47) 47	(47) 0.5	(47) GY	(47) 74 6	(47) IV	(47) —
(48) 48	(48) 0.5	(48) BU / YE	(48) 27 95	(48) II	(48) —	(48) Right Front Mirror Position Sensor Up [+] Down [-] Signal	(48) 48	(48) 0.5	(48) BU / YE	(48) 27 95	(48) IV	(48) —
(49) 49	(49) 0.5	(49) YE / VT	(49) 27 96	(49) II	(49) —	(49) Right Front Mirror Motor Up [+] Down [-] Control	(49) 49	(49) 0.5	(49) YE / VT	(49) 27 96	(49) IV	(49) —
(50) 50	(50) 0.5	(50) WH	(50) 27 97	(50) II	(50) —	(50) Right Front Mirror Motor Common Control	(50) 50	(50) 0.5	(50) WH	(50) 27 97	(50) IV	(50) —

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)

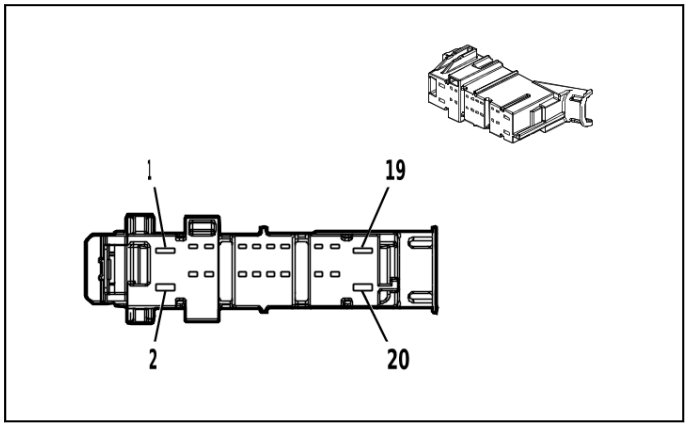
Terminal Part Information

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

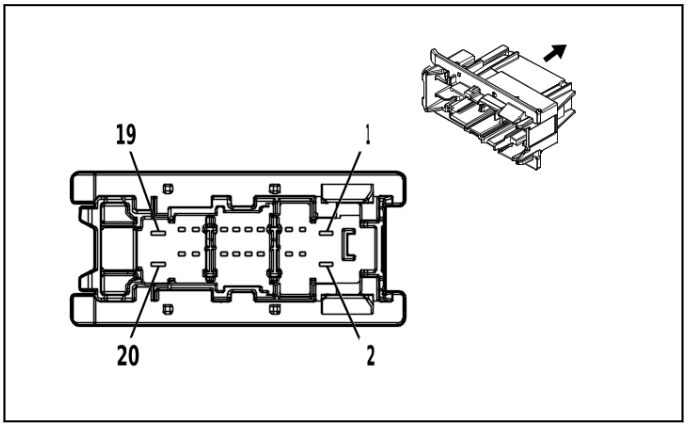
X630 Auxiliary Fuse Block Wiring Harness to Auxiliary Fuse Block Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 10	(1) RD / VT	(1) 542	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 10	(1) RD / VT	(1) 542	(1) II	(1) —
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—

X700 Rear Side Door Door Wiring Harness - Left to Body Wiring Harness



4650257



4663657

Connector Part Information
- Harness Type: Rear Side Door Door Wiring Harness - Left
- 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

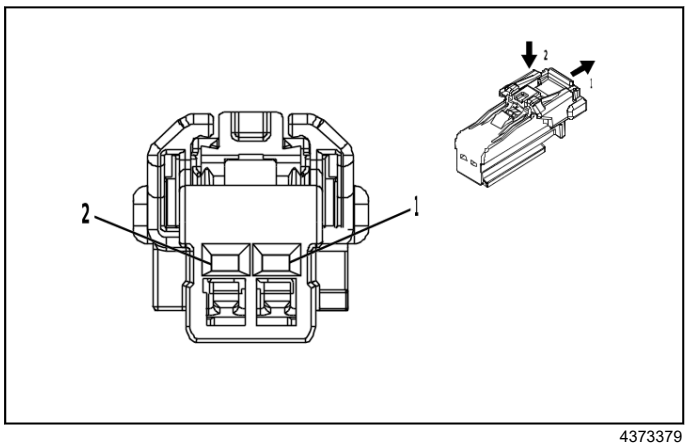
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-35 (VT)	No Tool Required
III	13586064	J-35616-5 (PU)	J-38125-212
IV	84616651	J-35616-13 (BU)	J-38125-215A
V	84726946	J-35616-13 (BU)	J-38125-215A

X700 Rear Side Door Door Wiring Harness - Left 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) 3240	(1) II	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 2.5	(1) RD / BU	(1) 3240	(1) III	(1) —
2 - 5	—	—	—	—	—	Not Occupied	2 - 5	—	—	—	—	—
(6) 6	(6) 0.75	(6) WH	(6) 2679	(6) I	(6) —	(6) Lock Actuators Unlock Control 1	(6) 6	(6) 0.75	(6) WH	(6) 2679	(6) IV	(6) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(7) 7	(7) 0.75	(7) BU / YE	(7) 1091	(7) I	(7) —	(7) Left Rear Door Lock Actuator Lock Control	(7) 7	(7) 0.75	(7) BU / YE	(7) 1091	(7) IV	(7) —
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—
(9) 9	(9) 0.5	(9) BK / OG	(9) 6623	(9) I	(9) —	(9) Left Rear Side Impact Sensor Low Reference	(9) 9	(9) 0.5	(9) BK / OG	(9) 6623	(9) IV	(9) —
10	—	—	—	—	—	Not Occupied	10	—	—	—	—	—
(11) 11	(11) 0.5	(11) OG / BU	(11) 6622	(11) I	(11) —	(11) Left Rear Side Impact Sensor Signal	(11) 11	(11) 0.5	(11) OG / BU	(11) 6622	(11) IV	(11) —
(12) 12	(12) 0.5	(12) GN / GY	(12) 6135	(12) I	(12) —	(12) Body Control Module LIN Bus 4	(12) 12	(12) 0.35	(12) GN / GY	(12) 6135	(12) IV	(12) —
13 - 16	—	—	—	—	—	Not Occupied	13 - 16	—	—	—	—	—
(17) 17	(17) 0.75	(17) GN	(17) 199	(17) I	(17) —	(17) Left Rear Speaker [+] Control (17) Left Rear Speaker [+] Control	(17) 17	(17) 1.5 (17) 0.75	(17) GN (17) GN	(17) 199 (17) 199	(17) V (17) IV	(17) UQA (17) UQF
(18) 18	(18) 0.75	(18) GN / BK	(18) 116	(18) I	(18) —	(18) Left Rear Speaker [-] Control (18) Left Rear Speaker [-] Control	(18) 18	(18) 1.5 (18) 0.75	(18) GN / BK (18) GN / BK	(18) 116 (18) 116	(18) V (18) IV	(18) UQA (18) UQF
19	—	—	—	—	—	Not Occupied	19	—	—	—	—	—
(20) 20	(20) 2.5	(20) BK	(20) 1550	(20) II	(20) —	(20) Ground	(20) 20	(20) 2.5	(20) BK	(20) 1550	(20) III	(20) —

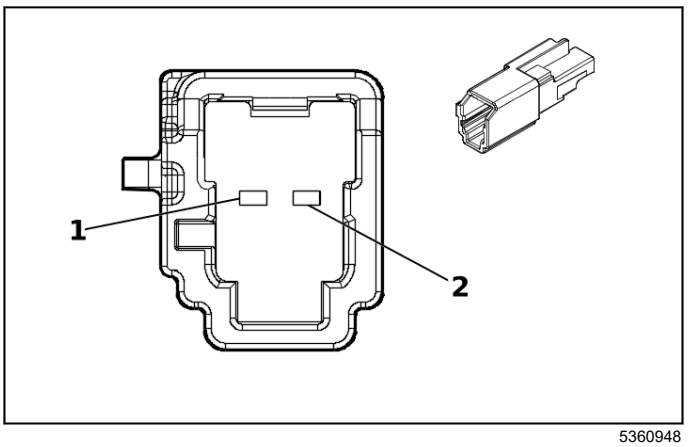
X701 Rear Side Door Door Wiring Harness - Left to Rear Side Door Wiring Harness



4373379

Connector Part Information

- Harness Type: Rear Side Door Door Wiring Harness - Left
- OEM Connector: 6098-8989
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(GY)



5360948

Connector Part Information

- Harness Type: Rear Side Door Wiring Harness
- OEM Connector: 35264701
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series(GY)

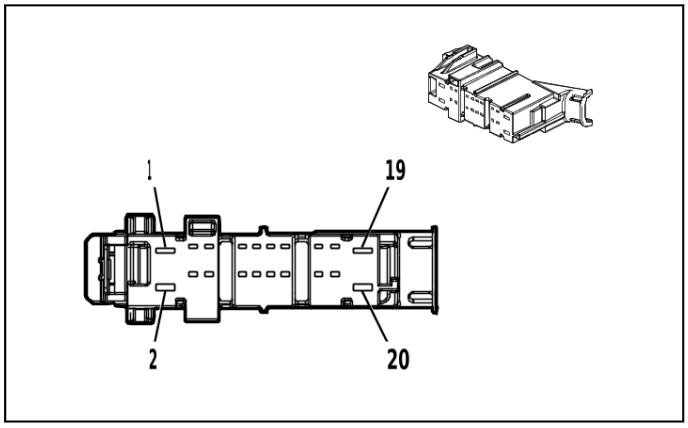
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-13 (BU)	No Tool Required

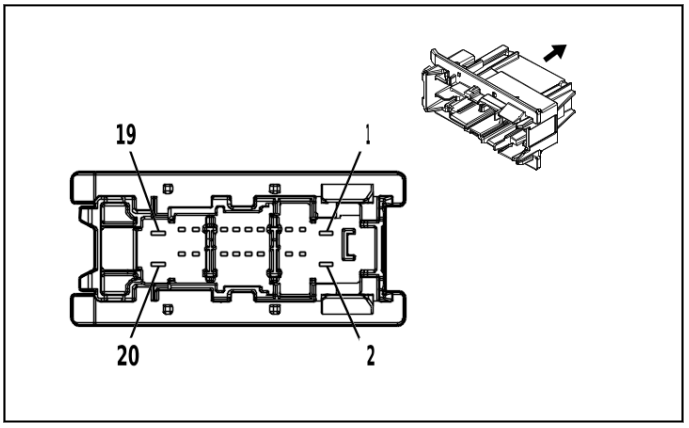
X701 Rear Side Door Door Wiring Harness - Left to Rear Side Door Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) GN / BK	(1) 116	(1) I	(1) —	(1) Left Rear Speaker [-] Control	(1) 1	(1) 0.75	(1) GN / BK	(1) 116	(1) II	(1) —
(2) 2	(2) 0.75	(2) GN	(2) 199	(2) I	(2) —	(2) Left Rear Speaker [+] Control	(2) 2	(2) 0.75	(2) GN	(2) 199	(2) II	(2) —

X800 Rear Side Door Door Wiring Harness - Right to Body Wiring Harness



4650257



4663657

Connector Part Information
- Harness Type: Rear Side Door Door Wiring Harness - Right
- 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)

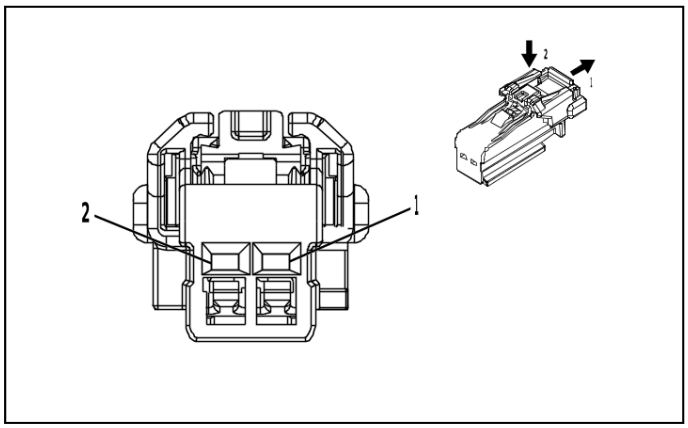
Terminal Part Information

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

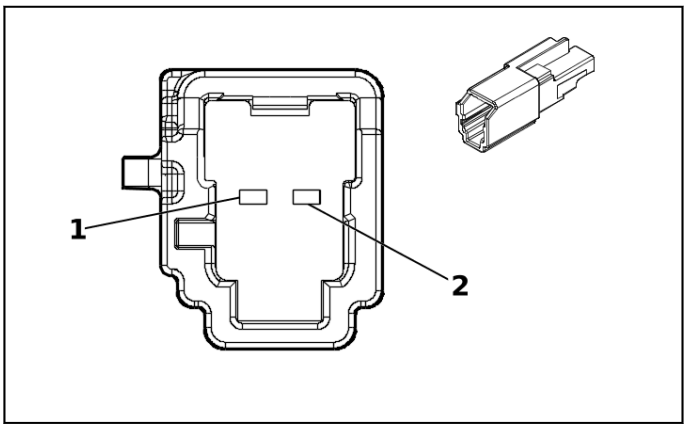
X800 Rear Side Door Door Wiring Harness - Right to Body Wiring Harness

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) 4840	(1) II	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 2.5	(1) RD / GY	(1) 4840	(1) III	(1) —
2 - 5	—	—	—	—	—	Not Occupied	2 - 5	—	—	—	—	—
(6) 6	(6) 0.75	(6) GY / BK	(6) 2680	(6) I	(6) —	(6) Lock Actuators Unlock Control 2	(6) 6	(6) 0.75	(6) GY / BK	(6) 2680	(6) IV	(6) —
(7) 7	(7) 0.75	(7) VT / WH	(7) 1094	(7) I	(7) —	(7) Right Rear Door Lock Actuator Lock Control	(7) 7	(7) 0.75	(7) VT / WH	(7) 1094	(7) IV	(7) —
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—
(9) 9	(9) 0.5	(9) BK / OG	(9) 6627	(9) I	(9) —	(9) Right Rear Side Impact Sensor Low Reference	(9) 9	(9) 0.5	(9) BK / OG	(9) 6627	(9) IV	(9) —
10	—	—	—	—	—	Not Occupied	10	—	—	—	—	—
(11) 11	(11) 0.5	(11) OG / WH	(11) 6626	(11) I	(11) —	(11) Right Rear Side Impact Sensor Signal	(11) 11	(11) 0.5	(11) OG / WH	(11) 6626	(11) IV	(11) —
(12) 12	(12) 0.5	(12) GN / GY	(12) 6135	(12) I	(12) —	(12) Body Control Module LIN Bus 4	(12) 12	(12) 0.35	(12) GN / GY	(12) 6135	(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) UQA (17) UQF
(18) 18	(18) 0.75	(18) BU / BK	(18) 115	(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) 115 (18) 115	(18) V (18) IV	(18) UQA (18) UQF
19	—	—	—	—	—	Not Occupied	19	—	—	—	—	—
(20) 20	(20) 2.5	(20) BK	(20) 1350	(20) II	(20) —	(20) Ground	(20) 20	(20) 2.5	(20) BK	(20) 1350	(20) III	(20) —

X801 Rear Side Door Door Wiring Harness - Right to Rear Side Door Wiring Harness



4373379



5360948

Connector Part Information
- Harness Type: Rear Side Door Door Wiring Harness - Right
- OEM Connector: 6098-8989
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series(GY)

Connector Part Information
- Harness Type: Rear Side Door Wiring Harness
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M (GY)

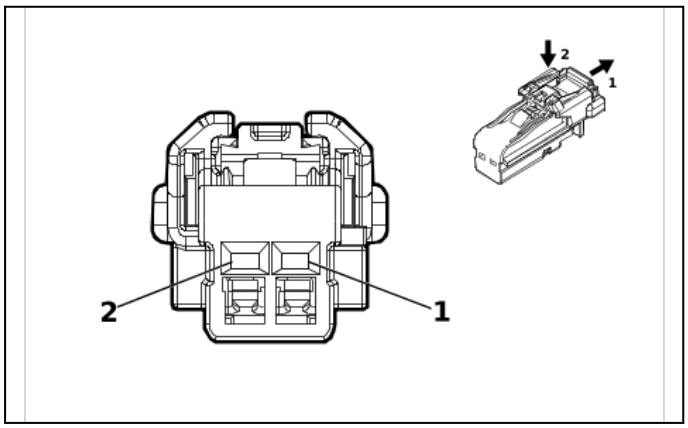
Terminal Part Information

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	No Tool Required	No Tool Required

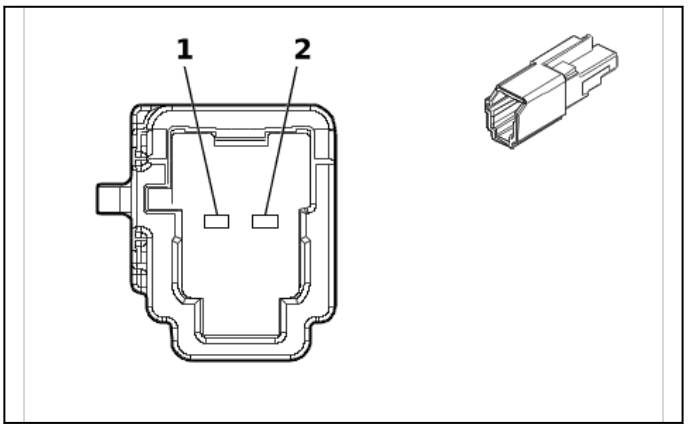
X801 Rear Side Door Door Wiring Harness - Right to Rear Side Door Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BU / BK	(1) 115	(1) I	(1) —	(1) Right Rear Speaker [-] Control	(1) 1	(1) 0.75	(1) BU / BK	(1) 115	(1) II	(1) —
(2) 2	(2) 0.75	(2) WH	(2) 46	(2) I	(2) —	(2) Right Rear Speaker [+] Control	(2) 2	(2) 0.75	(2) WH	(2) 46	(2) II	(2) —

X850 Roof Wiring Harness to Instrument Panel Wiring Harness



4115691



6529124

Connector Part Information
- Harness Type: Roof Wiring Harness
- OEM Connector: 6098-8988
- Service Connector: 87816612
- Description: 2-Way F 1.2 MCON Series(BK)

Connector Part Information
- Harness Type: Instrument Panel Wiring Harness
- OEM Connector: 6099-0610
- Service Connector: 85725003
- Description: 2-Way M 1.2 MBS Series(BK)

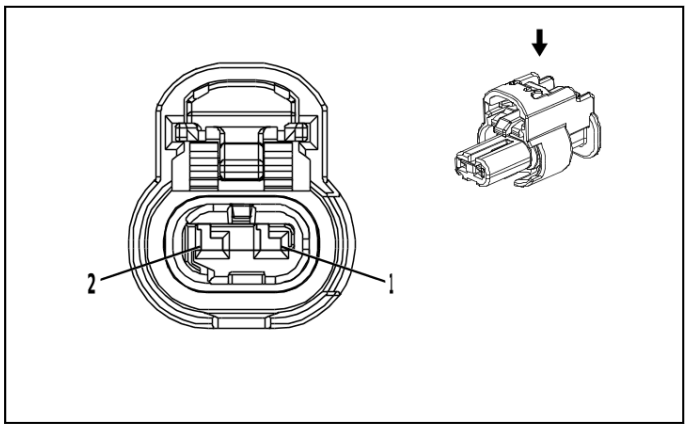
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

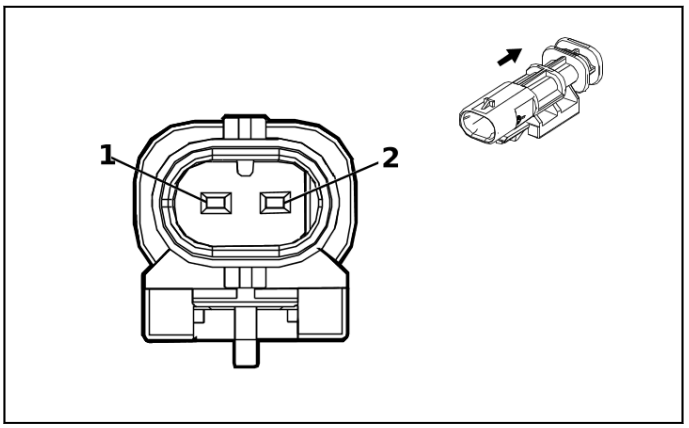
X850 Roof Wiring Harness to Instrument Panel Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1050	(1) I	(1) —	(1) Ground	(1) 1	(1) 0.5	(1) BK	(1) 1050	(1) II	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 4246	(2) I	(2) —	(2) Identification Lamp Control	(2) 2	(2) 0.5	(2) BN / GN	(2) 4246	(2) II	(2) —

X853 Rear Lamp Wiring Harness to Rear License Plate Lamp Wiring Harness Extension Harness - Left



4335931



5200722

Connector Part Information
- Harness Type: Rear Lamp Wiring Harness
- OEM Connector: 13512366
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

Connector Part Information
- Harness Type: Rear License Plate Lamp Wiring Harness Extension Harness - Left
- OEM Connector: 2203314-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(BK)

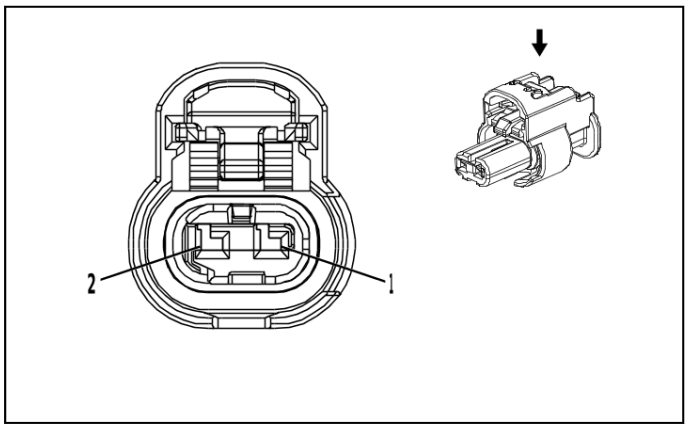
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

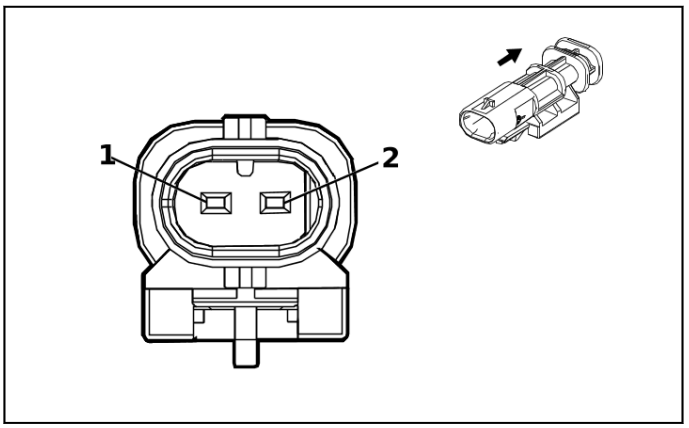
X853 Rear Lamp Wiring Harness to Rear License Plate Lamp Wiring Harness Extension Harness - Left

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1450	(1) I	(1) —	(1) Ground	(1) 1	(1) 0.5	(1) BK	(1) 1450	(1) II	(1) —
(2) 2	(2) 0.5	(2) VT / GY	(2) 709	(2) I	(2) —	(2) Left Park Lamp Control	(2) 2	(2) 0.5	(2) VT / GY	(2) 709	(2) II	(2) —

X856 Rear Lamp Wiring Harness to Rear License Plate Lamp Wiring Harness Extension Harness - Right



4335931



5200722

Connector Part Information
- Harness Type: Rear Lamp Wiring Harness
- OEM Connector: 13512366
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

Connector Part Information
- Harness Type: Rear License Plate Lamp Wiring Harness Extension Harness - Right
- OEM Connector: 2203314-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(BK)

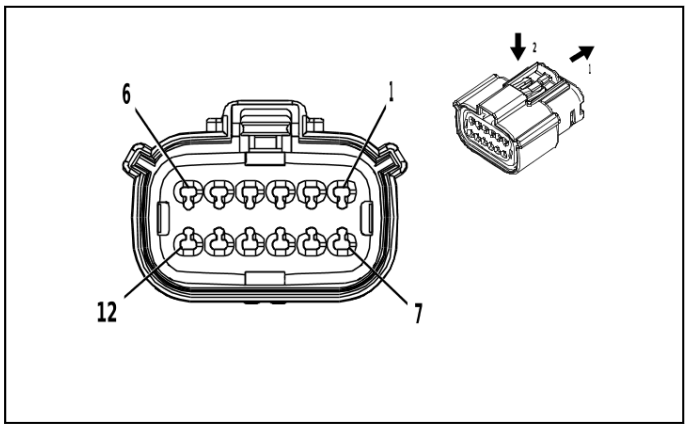
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-17 (L-GN)	No Tool Required

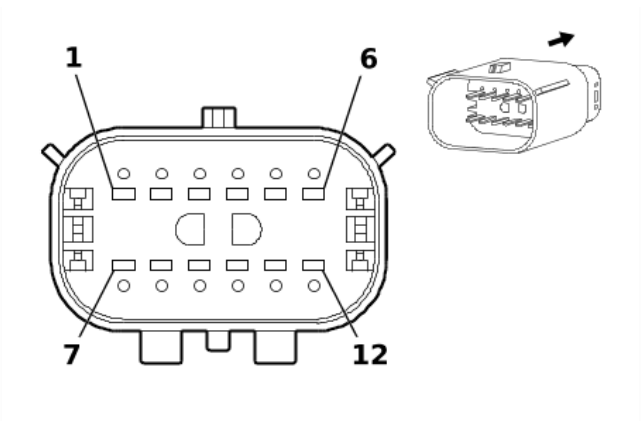
X856 Rear Lamp Wiring Harness to Rear License Plate Lamp Wiring Harness Extension Harness - Right

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1750	(1) I	(1) —	(1) Ground	(1) 1	(1) 0.5	(1) BK	(1) 1750	(1) II	(1) —
(2) 2	(2) 0.5	(2) GY / BN	(2) 309	(2) I	(2) —	(2) Right Park Lamp Control	(2) 2	(2) 0.5	(2) GY / BN	(2) 309	(2) II	(2) —

X910A Rear Body Structure Stop Lamp to Chassis Wiring Harness - Pickup



2871860



1825167

Connector Part Information
- Harness Type: Rear Body Structure Stop Lamp
- OEM Connector: 33472-1206
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 33482-6201
- Service Connector: 19369242
- Description: 12-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

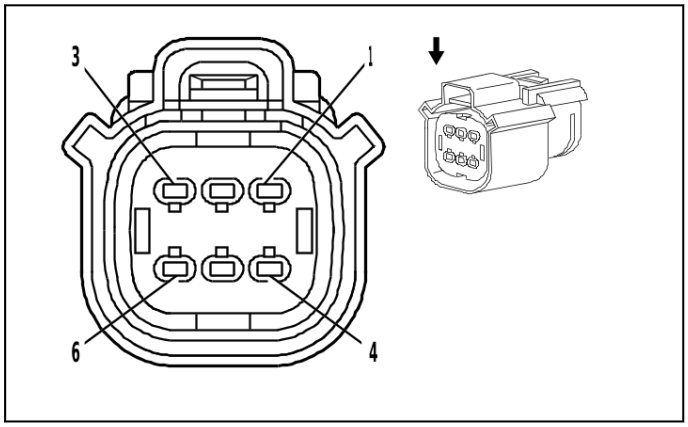
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	86800300	J-35616-3 (GY)	J-38125-217

X910A Rear Body Structure Stop Lamp to Chassis Wiring Harness - Pickup

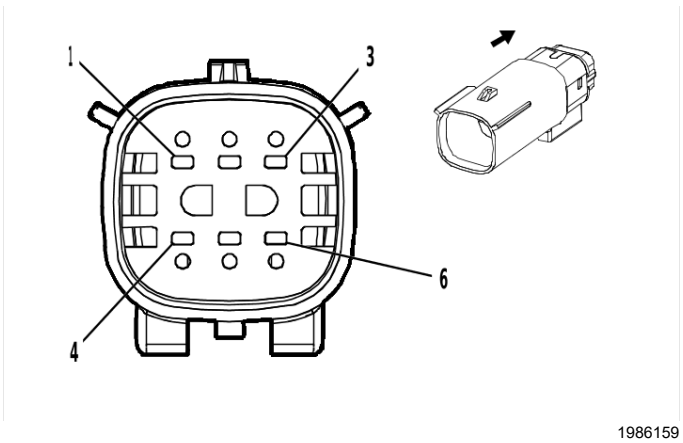
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 18	(1) BK	(1) 1951	(1) I	(1) —	(1) Signal Ground	(1) 1	(1) 1	(1) BK	(1) 1951	(1) II	(1) —
(2) 2	(2) 18	(2) RD / WH	(2) 640	(2) I	(2) —	(2) Battery Positive Voltage	(2) 2	(2) 0.5	(2) RD / WH	(2) 640	(2) II	(2) —
(3) 3	(3) 18	(3) GY / YE	(3) 7542	(3) I	(3) —	(3) Left Rear Stop Lamp Control	(3) 3	(3) 0.75	(3) GY / YE	(3) 7542	(3) II	(3) —
(4) 4	(4) 18	(4) BN / BU	(4) 6993	(4) I	(4) —	(4) Left Rear Park Lamp Control	(4) 4	(4) 0.75	(4) BN / BU	(4) 6993	(4) II	(4) —
(5) 5	(5) 18	(5) GN	(5) 1334	(5) I	(5) —	(5) Left Rear Turn Signal Lamp Control 2	(5) 5	(5) 0.75	(5) BU / WH	(5) 1334	(5) II	(5) —
(6) 6	(6) 18	(6) RD	(6) 6567	(6) I	(6) —	(6) Rear Turn Signal Lamp Feedback Signal	(6) 6	(6) 0.75	(6) WH / VT	(6) 6567	(6) II	(6) —
(7) 7	(7) 18	(7) GN / WH	(7) 24	(7) I	(7) —	(7) Backup Lamp Control	(7) 7	(7) 0.5	(7) GN / WH	(7) 24	(7) II	(7) —
(8) 8	(8) 18	(8) YE / GN	(8) 2024	(8) I	(8) —	(8) Animation Lighting Control	(8) 8	(8) 0.5	(8) YE / GN	(8) 2024	(8) II	(8) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(9) 9	(9) 18	(9) BU	(9) 7762	(9) I	(9) —	(9) Cargo Lamp Control	(9) 9	(9) 0.5	(9) GY / BU	(9) 7762	(9) II	(9) —
(10) 10	(10) 18	(10) BU / VT	(10) 1335	(10) I	(10) —	(10) Right Rear Turn Signal Lamp Control 2	(10) 10	(10) 0.75	(10) BU / VT	(10) 1335	(10) II	(10) —
(11) 11	(11) 18	(11) BN / GN	(11) 4246	(11) I	(11) —	(11) Identification Lamp Control	(11) 11	(11) 0.5	(11) BN / GN	(11) 4246	(11) II	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

X910A Rear Body Structure to Chassis Wiring Harness - Chassis Cab



1664625



1986159

Connector Part Information
- Harness Type: Rear Body Structure
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 33482-3646
- Service Connector: 19367742
- Description: 6-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

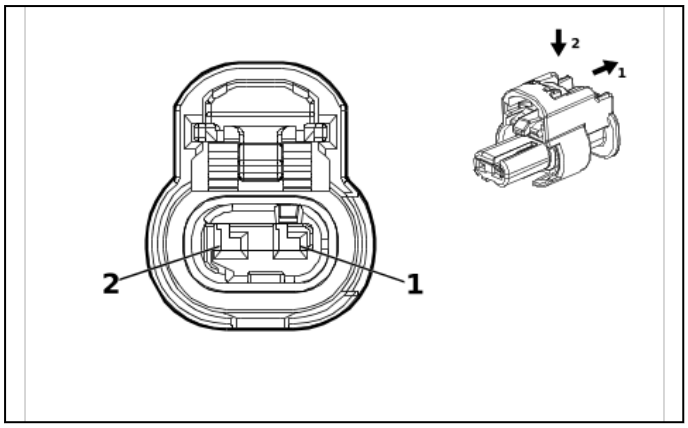
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X910A Rear Body Structure to Chassis Wiring Harness - Chassis Cab

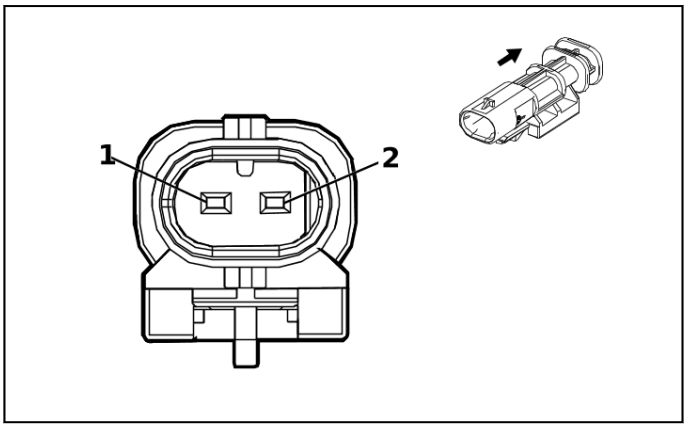
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.75	(1) BN / BU	(1) 6993	(1) I	(1) —	(1) Left Rear Park Lamp Control	(1) 1	(1) 0.75	(1) BN / BU	(1) 6993	(1) II	(1) —
2 - 3	—	—	—	—	—	Not Occupied	2 - 3	—	—	—	—	—
(4) 4	(4) 0.5	(4) GN	(4) 24	(4) I	(4) —	(4) Backup Lamp Control	(4) 4	(4) 0.5	(4) GN / WH	(4) 24	(4) II	(4) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(5) 5	(5) 0.75	(5) BU / WH	(5) 1334	(5) I	(5) —	(5) Left Rear Turn Signal Lamp Control 2	(5) 5	(5) 0.75	(5) BU / WH	(5) 1334	(5) II	(5) —
(6) 6	(6) 1	(6) BK	(6) 1951	(6) I	(6) —	(6) Signal Ground	(6) 6	(6) 1	(6) BK	(6) 1951	(6) II	(6) —

X910C Rear License Plate Lamp Wiring Harness Extension Harness - Left to Rear Body Structure Stop Lamp



4649903



5200722

Connector Part Information
- Harness Type: Rear License Plate Lamp Wiring Harness Extension Harness - Left
- OEM Connector: 1-2296694-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

Connector Part Information
- Harness Type: Rear Body Structure Stop Lamp
- OEM Connector: 2203314-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(BK)

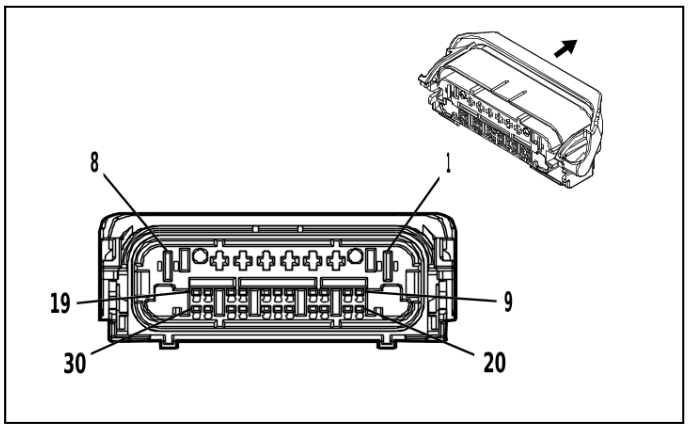
Terminal Part Information

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

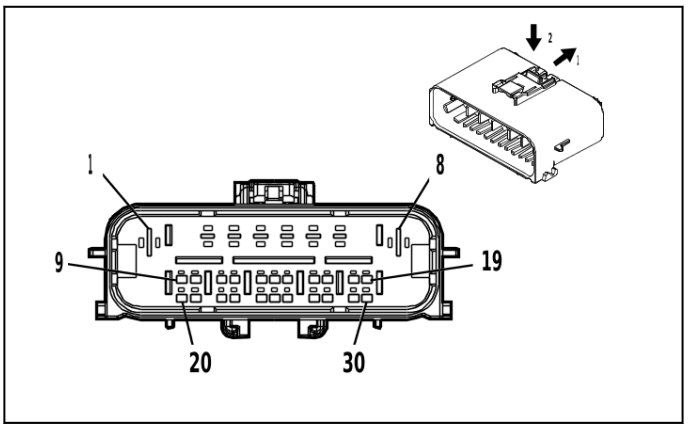
X910C Rear License Plate Lamp Wiring Harness Extension Harness - Left to Rear Body Structure Stop Lamp

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) VT / GY	(1) 1850	(1) I	(1) —	(1) Ground	(1) 1	(1) 18	(1) BK	(1) 1850	(1) II	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 4246	(2) I	(2) —	(2) Identification Lamp Control	(2) 2	(2) 18	(2) BN / GN	(2) 4246	(2) II	(2) —

X918 Endgate Wiring Harness to Chassis Wiring Harness



4650150



4817393

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)

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 13515618
- Service Connector: 19371177
- Description: 30-Way M 1.2 MCON, 2.8, 6.3 MCP Series, Sealed(BK)

Terminal Part Information

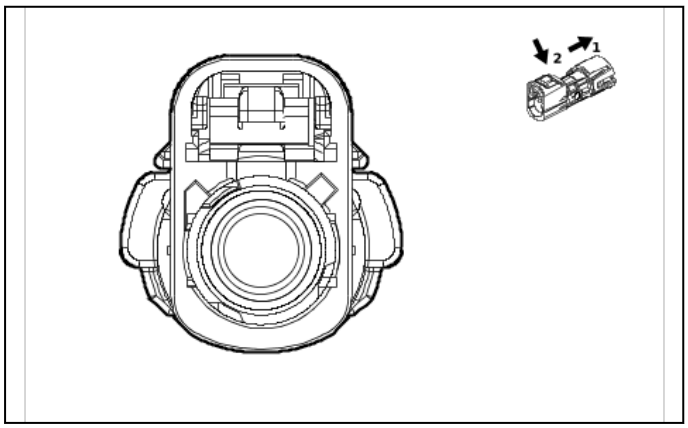
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-16 (L-GN)	No Tool Required
II	Not required	J-35616-35 (VT)	No Tool Required
III	Not required	J-35616-4A (PU)	No Tool Required
IV	13578827	J-35616-5 (PU)	J-38125-36
V	19330704	J-35616-13 (BU)	J-38125-215A

X918 Endgate Wiring Harness to Chassis Wiring Harness

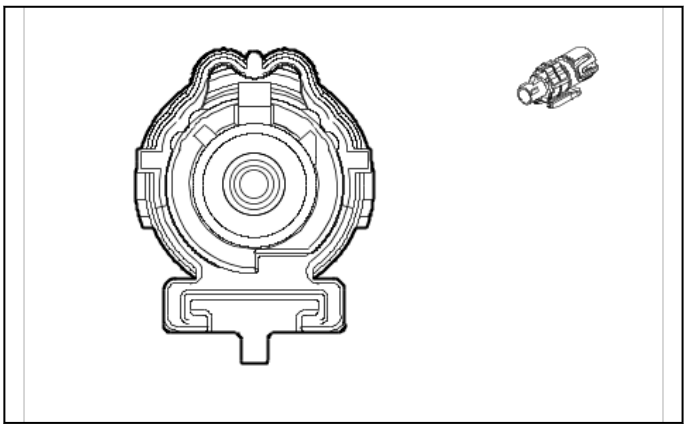
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
(2) 2	(2) 2.5	(2) RD / VT	(2) 4442	(2) II	(2) —	(2) Primary Fused Battery Positive Voltage	(2) 2	(2) 2.5	(2) RD / VT	(2) 4442	(2) IV	(2) —
(3) 3	(3) 2.5	(3) BK	(3) 1850	(3) II	(3) —	(3) Ground	(3) 3	(3) 2.5	(3) BK	(3) 1850	(3) IV	(3) —
(4) 4	(4) 1	(4) VT	(4) 7725	(4) III	(4) —	(4) Minor Endgate Motor Control	(4) 4	(4) 1	(4) VT	(4) 7725	(4) IV	(4) —
(5) 5	(5) 1	(5) YE / BK	(5) 7730	(5) III	(5) —	(5) Major Endgate Motor Low Reference	(5) 5	(5) 1	(5) YE / BK	(5) 7730	(5) IV	(5) —
(6) 6	(6) 1	(6) GN	(6) 1299	(6) III	(6) —	(6) Major Endgate Motor Control	(6) 6	(6) 1	(6) GN	(6) 1299	(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) WH / VT	(9) 1430	(9) I	(9) —	(9) Exterior Courtesy Lamp Control	(9) 9	(9) 0.5	(9) WH / VT	(9) 1430	(9) V	(9) —
(10) 10	(10) 0.5	(10) YE	(10) 7294	(10) I	(10) —	(10) Minor Endgate Release Switch Discrete Signal Exterior	(10) 10	(10) 0.5	(10) YE	(10) 7294	(10) V	(10) —
(11) 11	(11) 0.75	(11) YE / BU	(11) 7295	(11) I	(11) —	(11) Left Minor Endgate Ajar Signal	(11) 11	(11) 0.75	(11) YE / BU	(11) 7295	(11) V	(11) —
12 - 17	—	—	—	—	—	Not Occupied	12 - 17	—	—	—	—	—
(18) 18	(18) 0.5	(18) BU / VT	(18) 4101	(18) I	(18) —	(18) AUTOSAR CAN Bus [+] 4 Serial Data	(18) 18	(18) 0.5	(18) BU / VT	(18) 4101	(18) V	(18) —
(19) 19	(19) 0.5	(19) WH	(19) 4100	(19) I	(19) —	(19) AUTOSAR CAN Bus [-] 4 Serial Data	(19) 19	(19) 0.5	(19) WH	(19) 4100	(19) V	(19) —
(20) 20	(20) 0.5	(20) YE	(20) 1144	(20) I	(20) —	(20) Endgate Release Switch Discrete Signal Exterior	(20) 20	(20) 0.5	(20) YE	(20) 1144	(20) V	(20) —
(21) 21	(21) 0.5	(21) GY	(21) 7292	(21) I	(21) —	(21) Major Endgate Release Switch Signal Exterior	(21) 21	(21) 0.5	(21) GY	(21) 7292	(21) V	(21) —
(22) 22	(22) 0.5	(22) WH	(22) 4100	(22) I	(22) —	(22) AUTOSAR CAN Bus [-] 4 Serial Data	(22) 22	(22) —	(22) —	(22) —	(22) —	(22) —
(23) 23	(23) 0.5	(23) BU / VT	(23) 4101	(23) I	(23) —	(23) AUTOSAR CAN Bus [+] 4 Serial Data	(23) 23	(23) —	(23) —	(23) —	(23) —	(23) —
24 - 28	—	—	—	—	—	Not Occupied	24 - 28	—	—	—	—	—
(29) 29	(29) 0.5	(29) WH	(29) 4100	(29) I	(29) —	(29) AUTOSAR CAN Bus [-] 4 Serial Data	(29) 29	(29) 0.5	(29) WH	(29) 4100	(29) V	(29) —
(30) 30	(30) 0.5	(30) BU / VT	(30) 4101	(30) I	(30) —	(30) AUTOSAR CAN Bus [+] 4 Serial Data	(30) 30	(30) 0.5	(30) BU / VT	(30) 4101	(30) V	(30) —

X919 Endgate Wiring Harness to Chassis Wiring Harness



5810829



5757466

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)

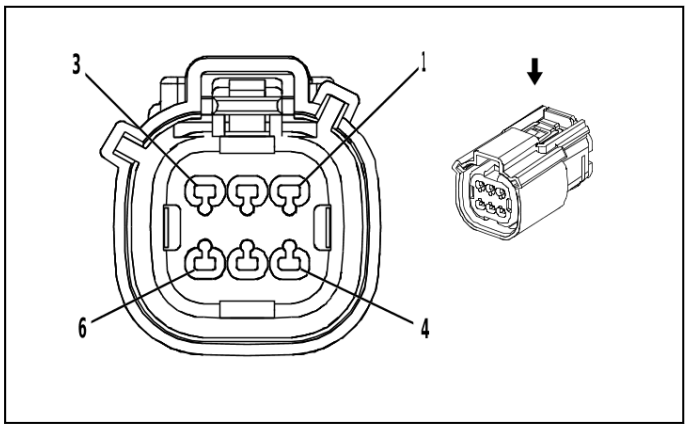
Terminal Part Information

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

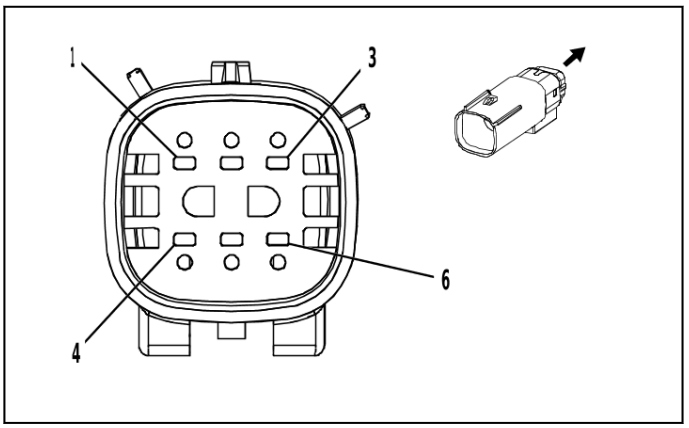
X919 Endgate Wiring Harness to Chassis Wiring Harness

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	—

X920A Rear Lamp Wiring Harness to Chassis Wiring Harness - Chassis Cab



3225042



3225221

Connector Part Information
- Harness Type: Rear Lamp Wiring Harness
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way F

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 33482-3647
- Service Connector: 19370461
- Description: 6-Way M 1.5 MX Series, Sealed(GY)

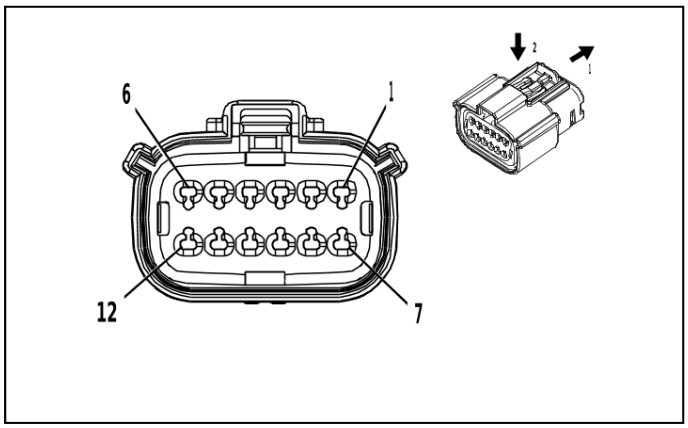
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

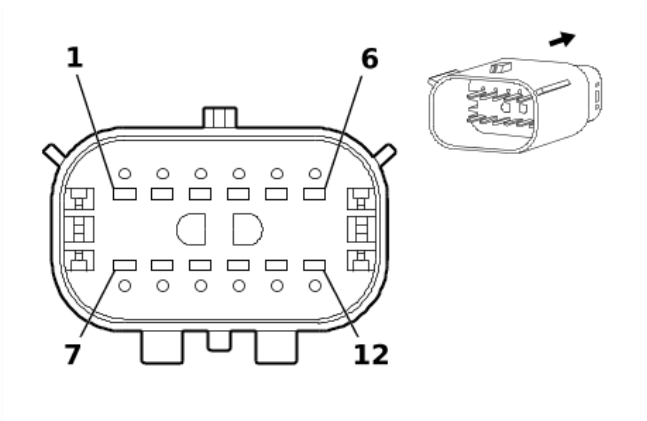
X920A Rear Lamp Wiring Harness to Chassis Wiring Harness - Chassis Cab

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) 6995	(1) I	(1) —	(1) Right Rear Park Lamp Control	(1) 1	(1) 0.75	(1) BN / GY	(1) 6995	(1) II	(1) —
2 - 3	—	—	—	—	—	Not Occupied	2 - 3	—	—	—	—	—
(4) 4	(4) 0.5	(4) GN	(4) 24	(4) I	(4) —	(4) Backup Lamp Control	(4) 4	(4) 0.5	(4) GN / WH	(4) 24	(4) II	(4) —
(5) 5	(5) 0.75	(5) BU / VT	(5) 1335	(5) I	(5) —	(5) Right Rear Turn Signal Lamp Control 2	(5) 5	(5) 0.75	(5) BU / VT	(5) 1335	(5) II	(5) —
(6) 6	(6) 1	(6) BK	(6) 1850	(6) I	(6) —	(6) Ground	(6) 6	(6) 1	(6) BK	(6) 1850	(6) II	(6) —

X920A Rear Lamp Wiring Harness to Chassis Wiring Harness - Pickup



2871860



1825167

Connector Part Information
- Harness Type: Rear Body Structure Stop Lamp
- OEM Connector: 33472-1206
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information
- Harness Type: Chassis Wiring Harness
- OEM Connector: 33482-6201
- Service Connector: 19369242
- Description: 12-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

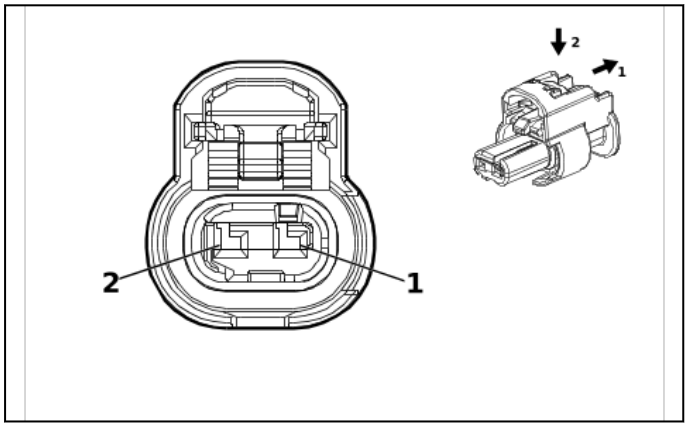
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	86800300	J-35616-3 (GY)	J-38125-217

X920A Rear Lamp Wiring Harness to Chassis Wiring Harness - Pickup

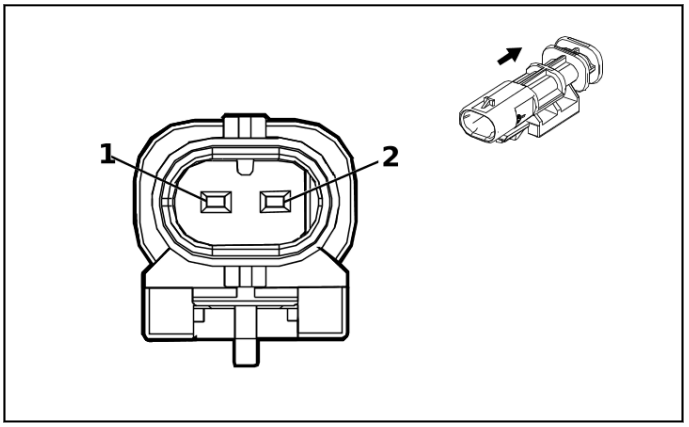
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 18	(1) BK	(1) 1850	(1) I	(1) —	(1) Ground	(1) 1	(1) 1	(1) BK	(1) 1850	(1) II	(1) —
(2) 2	(2) 18	(2) RD / WH	(2) 6440	(2) I	(2) —	(2) Battery Positive Voltage	(2) 2	(2) 0.5	(2) RD / WH	(2) 6440	(2) II	(2) —
(3) 3	(3) 18	(3) BU	(3) 7762	(3) I	(3) —	(3) Cargo Lamp Control	(3) 3	(3) 0.75	(3) WH / YE	(3) 7541	(3) II	(3) —
(4) 4	(4) 18	(4) BN / GY	(4) 6995	(4) I	(4) —	(4) Right Rear Park Lamp Control	(4) 4	(4) 0.75	(4) BN / GY	(4) 6995	(4) II	(4) —
(5) 5	(5) 18	(5) GN	(5) 1335	(5) I	(5) —	(5) Right Rear Turn Signal Lamp Control 2	(5) 5	(5) 0.75	(5) BU / VT	(5) 1335	(5) II	(5) —
(6) 6	(6) 18	(6) WH / BK	(6) 7544	(6) I	(6) —	(6) Right Rear Turn Signal Lamp Feedback Signal	(6) 6	(6) 0.75	(6) WH / BK	(6) 7544	(6) II	(6) —
(7) 7	(7) 18	(7) GN	(7) 24	(7) I	(7) —	(7) Backup Lamp Control	(7) 7	(7) 0.5	(7) GN / WH	(7) 24	(7) II	(7) —
(8) 8	(8) 18	(8) YE / GN	(8) 2024	(8) I	(8) —	(8) Animation Lighting Control	(8) 8	(8) 0.5	(8) YE / GN	(8) 2024	(8) II	(8) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(9) 9	(9) 18	(9) BU	(9) 7762	(9) I	(9) —	(9) Cargo Lamp Control	(9) 9	(9) 0.5	(9) GY / BU	(9) 7762	(9) II	(9) —
(10) 10	(10) 18	(10) GN	(10) 1334	(10) I	(10) —	(10) Left Rear Turn Signal Lamp Control 2	(10) 10	(10) 0.75	(10) BU / WH	(10) 1334	(10) II	(10) —
(11) 11	(11) 18	(11) BN / GN	(11) 4246	(11) I	(11) —	(11) Identification Lamp Control	(11) 11	(11) 0.5	(11) BN / GN	(11) 4246	(11) II	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

X920C Rear License Plate Lamp Wiring Harness Extension Harness - Right to Rear Body Structure Stop Lamp



4649903



5200722

Connector Part Information
- Harness Type: Rear License Plate Lamp Wiring Harness Extension Harness - Right
- OEM Connector: 1-2296694-1
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way F 1.2 MCON Series, Sealed(BK)

Connector Part Information
- Harness Type: Rear Body Structure Stop Lamp
- OEM Connector: 2203314-2
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 1.2 MCON Series, Sealed(BK)

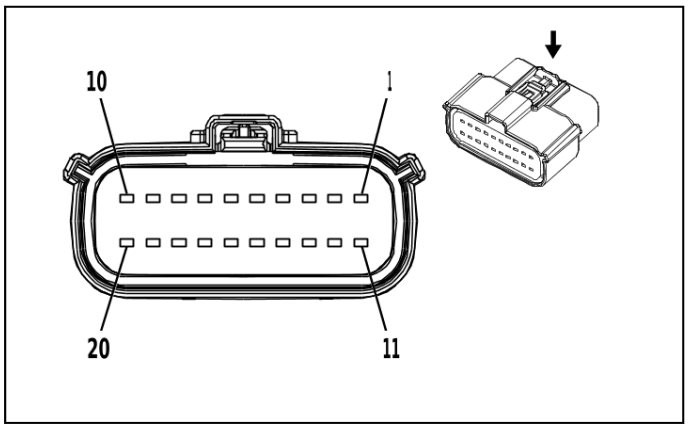
Terminal Part Information

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

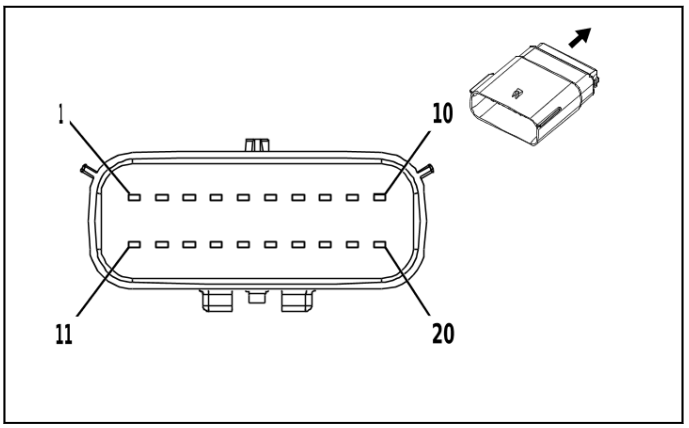
X920C Rear License Plate Lamp Wiring Harness Extension Harness - Right to Rear Body Structure Stop Lamp

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BK	(1) 1850	(1) I	(1) —	(1) Ground	(1) 1	(1) 18	(1) BK	(1) 1850	(1) II	(1) —
(2) 2	(2) 0.5	(2) BN / GN	(2) 4246	(2) I	(2) —	(2) Identification Lamp Control	(2) 2	(2) 18	(2) BN / GN	(2) 4246	(2) II	(2) —

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: 35679041
- 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: 13598210
- Service Connector: 19351705
- Description: 20-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

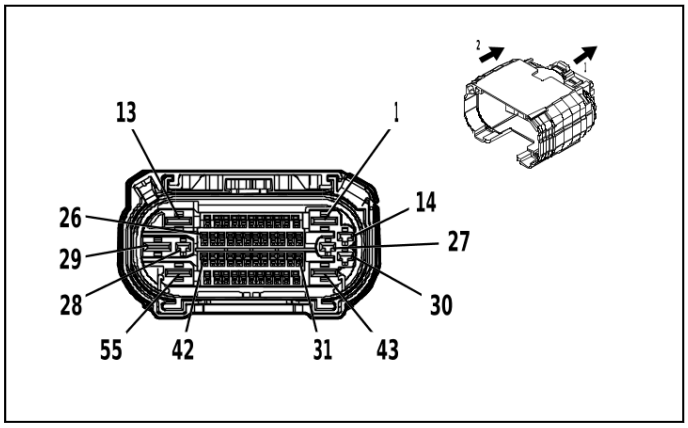
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	86800300	J-35616-3 (GY)	J-38125-217

X950 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness

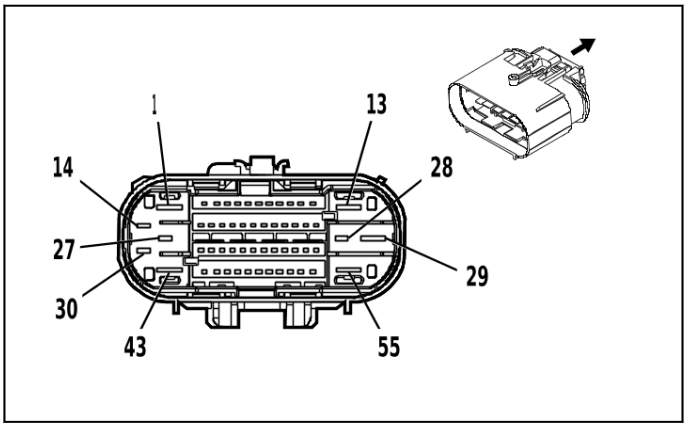
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) RD / GN	(1) 6940	(1) I	(1) —	(1) Battery Positive Voltage	(1) 1	(1) 0.5	(1) RD / GN	(1) 6940	(1) II	(1) —
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
(3) 3	(3) 0.5	(3) WH	(3) 4100	(3) I	(3) —	(3) AUTOSAR CAN Bus [-] 4 Serial Data	(3) 3	(3) 0.5	(3) WH	(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 - 8	—	—	—	—	—	Not Occupied	5 - 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) YE	(10) 2375	(10) I	(10) —	(10) Left Rear Outer Parking Assist Sensor Signal	(10) 10	(10) 0.5	(10) YE	(10) 2375	(10) II	(10) —
(11) 11	(11) 0.5	(11) YE / BU	(11) 2376	(11) I	(11) —	(11) Left Rear Middle Parking Assist Sensor Signal	(11) 11	(11) 0.5	(11) YE / BU	(11) 2376	(11) II	(11) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(12) 12	(12) 0.5	(12) YE / WH	(12) 23 77	(12) I	(12) —	(12) Right Rear Middle Parking Assist Sensor Signal	(12) 12	(12) 0.5	(12) YE / WH	(12) 23 77	(12) II	(12) —
(13) 13	(13) 0.5	(13) YE / VT	(13) 23 78	(13) I	(13) —	(13) Right Rear Outer Parking Assist Sensor Signal	(13) 13	(13) 0.5	(13) YE / VT	(13) 23 78	(13) II	(13) —
(14) 14	(14) 0.5	(14) BK / GY	(14) 23 79	(14) I	(14) —	(14) Object Sensor Low Reference	(14) 14	(14) 0.5	(14) BK / GY	(14) 23 79	(14) II	(14) —
(15) 15	(15) 0.5	(15) GN / YE	(15) 68 46	(15) I	(15) —	(15) Rear License Plate Lamp Control	(15) 15	(15) 0.5	(15) GN / YE	(15) 68 46	(15) II	(15) —
(16) 16	(16) 0.75	(16) BK	(16) 18 50	(16) I	(16) —	(16) Ground	(16) 16	(16) 1	(16) BK	(16) 18 50	(16) II	(16) —
(17) 17	(17) 0.5	(17) BK / WH	(17) 19 51	(17) I	(17) —	(17) Signal Ground	(17) 17	(17) 1	(17) BK	(17) 18 50	(17) II	(17) —
18 - 20	—	—	—	—	—	Not Occupied	18 - 20	—	—	—	—	—

X950D Engine Wiring Harness to Engine Wiring Harness



4992168



4993301

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 35253720
- Service Connector: 19371185
- Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series, Sealed(BK)

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 35205187
- 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

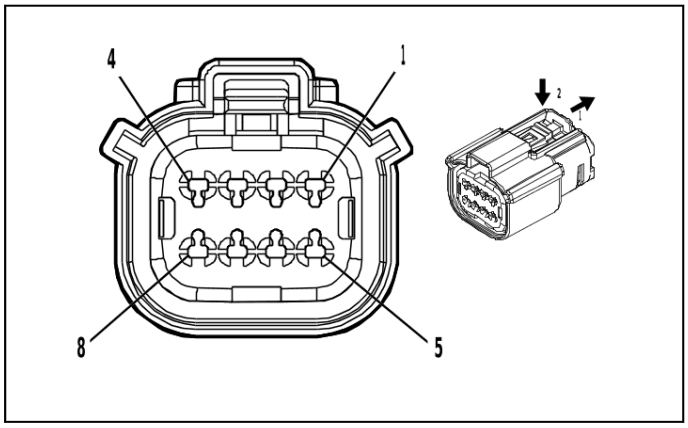
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
V	84867140	J-35616-13 (BU)	J-38125-215A
VI	84992391	J-35616-5 (PU)	J-38125-36

X950D Engine Wiring Harness to Engine Wiring Harness

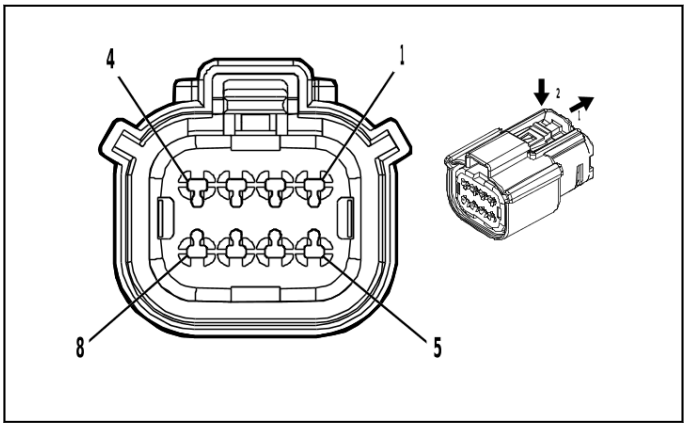
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 2.5	(1) GY / BU	(1) 1581	(1) III	(1) —	(1) Glow Plug 1 Control	(1) 1	(1) 2.5	(1) GY / BU	(1) 1581	(1) IV	(1) —
2 - 12	—	—	—	—	—	Not Occupied	2 - 12	—	—	—	—	—
(13) 13	(13) 2.5	(13) GY / VT	(13) 1586	(13) III	(13) —	(13) Glow Plug 6 Control	(13) 13	(13) 2.5	(13) GY / VT	(13) 1586	(13) IV	(13) —
(14) 14	(14) 2.5	(14) GY / BN	(14) 1582	(14) I	(14) —	(14) Glow Plug 2 Control	(14) 14	(14) 2.5	(14) GY / BN	(14) 1582	(14) VI	(14) —
(15) 15	(15) 0.5	(15) WH	(15) 4055	(15) II	(15) —	(15) Private Serial Data Powertrain CAN Bus [+] Serial Data	(15) 15	(15) 0.5	(15) WH	(15) 4055	(15) V	(15) —
(16) 16	(16) 0.5	(16) BU / GY	(16) 4054	(16) II	(16) —	(16) Private Serial Data Powertrain CAN Bus [-] Serial Data	(16) 16	(16) 0.5	(16) BU / GY	(16) 4054	(16) V	(16) —
(17) 17	(17) 0.5	(17) BK / WH	(17) 6151	(17) II	(17) —	(17) Engine Control Module Ground	(17) 17	(17) 0.5	(17) BK / WH	(17) 6151	(17) V	(17) —
(18) 18	(18) 0.5	(18) BK / BU	(18) 10597	(18) II	(18) —	(18) Engine Control Sensors Low Reference 3	(18) 18	(18) 0.5	(18) BK / BU	(18) 10597	(18) V	(18) —
(19) 19	(19) 0.5	(19) BN	(19) 3681	(19) II	(19) —	(19) Charge Air Cooler Outlet Temperature Sensor Signal	(19) 19	(19) 0.5	(19) BN	(19) 3681	(19) V	(19) —
(20) 20	(20) 0.75	(20) VT / GN	(20) 4320	(20) II	(20) —	(20) Powertrain Sensor Bus Enable	(20) 20	(20) 0.5	(20) VT / GN	(20) 4320	(20) V	(20) —
(21) 21	(21) 0.5	(21) WH	(21) 4055	(21) II	(21) —	(21) Private Serial Data Powertrain CAN Bus [+] Serial Data	(21) 21	(21) 0.5	(21) WH	(21) 4055	(21) V	(21) —
(22) 22	(22) 0.5	(22) BU / GY	(22) 4054	(22) II	(22) —	(22) Private Serial Data Powertrain CAN Bus [-] Serial Data	(22) 22	(22) 0.5	(22) BU / GY	(22) 4054	(22) V	(22) —
23 - 26	—	—	—	—	—	Not Occupied	23 - 26	—	—	—	—	—
(27) 27	(27) 2.5	(27) GY / GN	(27) 1583	(27) I	(27) —	(27) Glow Plug 3 Control	(27) 27	(27) 2.5	(27) GY / GN	(27) 1583	(27) VI	(27) —

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(28) 28	(28) 2.5	(28) WH / BK	(28) 15 87	(28) I	(28) —	(28) Glow Plug 7 Control	(28) 28	(28) 2.5	(28) WH / BK	(28) 15 87	(28) VI	(28) —
29	—	—	—	—	—	Not Occupied	29	—	—	—	—	—
(30) 30	(30) 2.5	(30) G Y / YE	(30) 15 84	(30) I	(30) —	(30) Glow Plug 4 Control	(30) 30	(30) 2.5	(30) G Y / YE	(30) 15 84	(30) VI	(30) —
31 - 42	—	—	—	—	—	Not Occupied	31 - 42	—	—	—	—	—
(43) 43	(43) 2.5	(43) G Y / WH	(43) 15 85	(43) III	(43) —	(43) Glow Plug 5 Control	(43) 43	(43) 2.5	(43) G Y / WH	(43) 15 85	(43) IV	(43) —
44 - 54	—	—	—	—	—	Not Occupied	44 - 54	—	—	—	—	—
(55) 55	(55) 2.5	(55) WH / BU	(55) 15 88	(55) III	(55) —	(55) Glow Plug 8 Control	(55) 55	(55) 2.5	(55) WH / BU	(55) 15 88	(55) IV	(55) —

X960A Engine Wiring Harness to Engine Wiring Harness Extension (L5P)



4846407



4846407

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13520069
- Service Connector: 84928314
- Description: 8-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information
- Harness Type: Engine Wiring Harness Extension
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 8-Way M (BK)

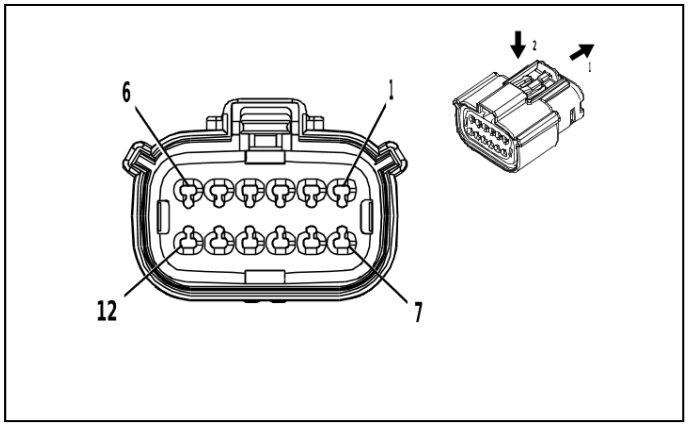
Terminal Part Information

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

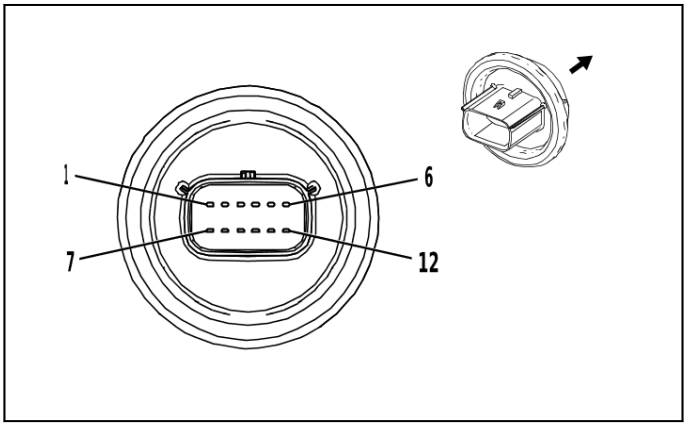
X960A Engine Wiring Harness to Engine Wiring Harness Extension (L5P)

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) 6270	(1) I	(1) —	(1) Crankshaft Position Sensor Voltage	(1) 1	(1) 0.5	(1) VT / BU	(1) 6270	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / VT	(2) 6272	(2) I	(2) —	(2) Crankshaft Position Sensor Low Reference	(2) 2	(2) 0.5	(2) BK / VT	(2) 6272	(2) II	(2) —
(3) 3	(3) 0.5	(3) GN	(3) 6271	(3) I	(3) —	(3) Crankshaft Position Sensor Signal	(3) 3	(3) 0.5	(3) GN	(3) 6271	(3) II	(3) —
(4) 4	(4) 0.5	(4) BN / RD	(4) 2917	(4) I	(4) —	(4) Fuel Rail Pressure Sensor 5V Reference	(4) 4	(4) 0.5	(4) BN / RD	(4) 2917	(4) II	(4) —
(5) 5	(5) 0.5	(5) BK / GN	(5) 2919	(5) I	(5) —	(5) Fuel Rail Pressure Sensor Low Reference	(5) 5	(5) 0.5	(5) BK / GN	(5) 2919	(5) II	(5) —
(6) 6	(6) 0.5	(6) BU / WH	(6) 2918	(6) I	(6) —	(6) Fuel Rail Pressure Sensor Signal	(6) 6	(6) 0.5	(6) BU / WH	(6) 2918	(6) II	(6) —
(7) 7	(7) 0.5	(7) BN / YE	(7) 2161	(7) I	(7) —	(7) Fuel Rail Pressure Sensor 2 Signal	(7) 7	(7) 0.5	(7) BN / YE	(7) 2161	(7) II	(7) —
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—

X960B Engine Wiring Harness to Engine Wiring Harness Extension (L5P)



2871860



3238775

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13503526
- Service Connector: 19352907
- Description: 12-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information
- Harness Type: Engine Wiring Harness Extension
- OEM Connector: Not Available
- Service Connector: Service by Harness - See Part Catalog
- Description: 12-Way M (BK)

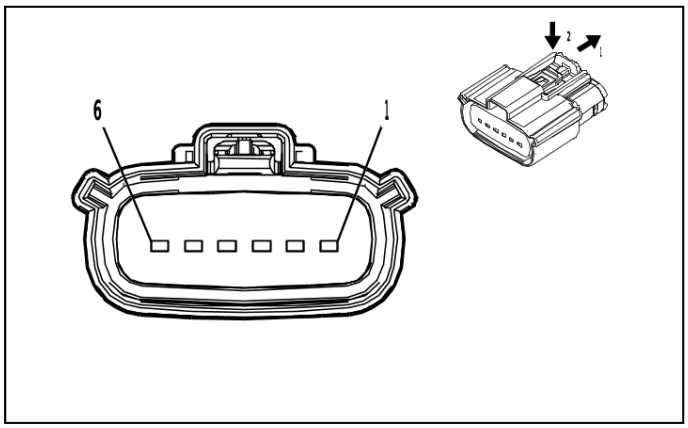
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	85528055	J-35616-2A (GY)	J-38125-217
II	Not required	No Tool Required	No Tool Required

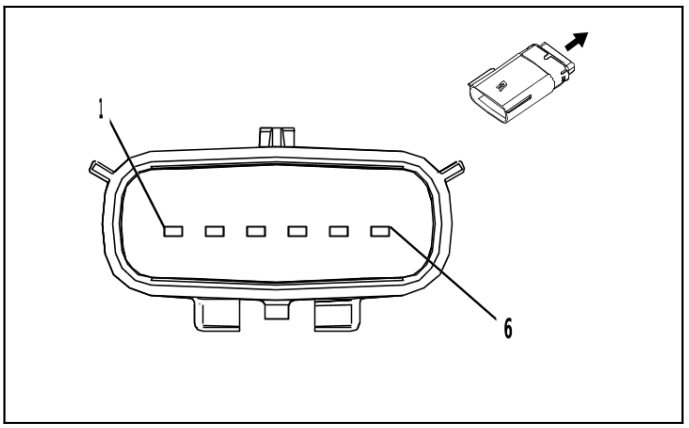
X960B Engine Wiring Harness to Engine Wiring Harness Extension (L5P)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU / RD	(1) 460	(1) I	(1) —	(1) Engine Control Sensors 5 Volt Reference 1	(1) 1	(1) 0.5	(1) BU / RD	(1) 460	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) I	(2) —	(2) Engine Control Sensors Low Reference 1	(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) II	(2) —
(3) 3	(3) 0.5	(3) YE / BN	(3) 331	(3) I	(3) —	(3) Oil Pressure Sensor Signal	(3) 3	(3) 0.5	(3) YE / BN	(3) 331	(3) II	(3) —
(4) 4	(4) 0.5	(4) BU	(4) 410	(4) I	(4) —	(4) Engine Coolant Temperature Sensor Signal	(4) 4	(4) 0.5	(4) BU	(4) 410	(4) II	(4) —
(5) 5	(5) 0.5	(5) BK / YE	(5) 548	(5) I	(5) —	(5) Engine Control Sensors Low Reference 1	(5) 5	(5) 0.5	(5) BK / YE	(5) 548	(5) II	(5) —
(6) 6	(6) 0.5	(6) BK / WH	(6) 615 1	(6) I	(6) —	(6) Engine Control Module Ground	(6) 6	(6) 0.5	(6) BK / WH	(6) 615 1	(6) II	(6) —
(7) 7	(7) 0.5	(7) BN / GN	(7) 117 4	(7) I	(7) —	(7) Oil Level Switch Signal	(7) 7	(7) 0.5	(7) BN / GN	(7) 117 4	(7) II	(7) —
8 - 9	—	—	—	—	—	Not Occupied	8 - 9	—	—	—	—	—
(10) 10	(10) 0.5	(10) YE	(10) 29 28	(10) I	(10) —	(10) Fuel Metering Solenoid Valve High Control	(10) 10	(10) 0.5	(10) YE	(10) 29 28	(10) II	(10) —
(11) 11	(11) 0.5	(11) BN / BK	(11) 29 29	(11) I	(11) —	(11) Fuel Metering Solenoid Valve Low Control	(11) 11	(11) 0.5	(11) BN / BK	(11) 29 29	(11) II	(11) —
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

X962 Engine Wiring Harness to Engine Coolant Temperature Sensor Harness



5126816



3277908

Connector Part Information
- Harness Type: Engine Wiring Harness
- OEM Connector: 13544241
- Service Connector: 86801953
- Description: 6-Way F 1.5 Series, Sealed(BK)

Connector Part Information
- Harness Type: Engine Coolant Temperature Sensor Harness
- OEM Connector: 13526225
- Service Connector: Service by Harness - See Part Catalog
- Description: 6-Way M 1.5 MX Series, Sealed(BK)

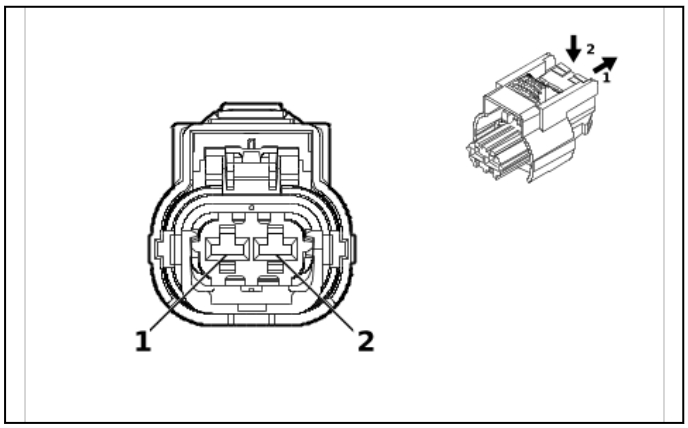
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X962 Engine Wiring Harness to Engine Coolant Temperature Sensor Harness

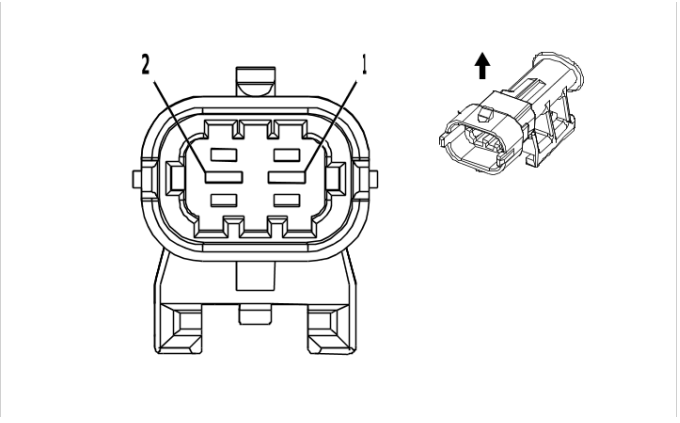
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BU	(1) 410	(1) I	(1) —	(1) Engine Coolant Temperature Sensor Signal	(1) 1	(1) 0.5	(1) BU	(1) 410	(1) II	(1) —
(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) I	(2) —	(2) Engine Control Sensors Low Reference 1	(2) 2	(2) 0.5	(2) BK / YE	(2) 548	(2) II	(2) —
(3) 3	(3) 0.5	(3) YE / BN	(3) 331	(3) I	(3) —	(3) Oil Pressure Sensor Signal	(3) 3	(3) 0.5	(3) YE / BN	(3) 331	(3) II	(3) —
(4) 4	(4) 0.5	(4) BK / YE	(4) 548	(4) I	(4) —	(4) Engine Control Sensors Low Reference 1	(4) 4	(4) 0.5	(4) BK / YE	(4) 548	(4) II	(4) —
(5) 5	(5) 0.5	(5) W H / RD	(5) 480	(5) I	(5) —	(5) Engine Control Vehicle Sensors 5 Volt Reference 1	(5) 5	(5) 0.5	(5) W H / RD	(5) 480	(5) II	(5) —
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

X977 Engine Wiring Harness Chassis to Accessory Wiring Harness (L5P & VYU)



4992524

Connector Part Information
- Harness Type: Engine Wiring Harness Chassis
- OEM Connector: 35182447
- Service Connector: 84941154
- Description: 2-Way F 2.8 MCP Series, Sealed(BK)



2667643

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)

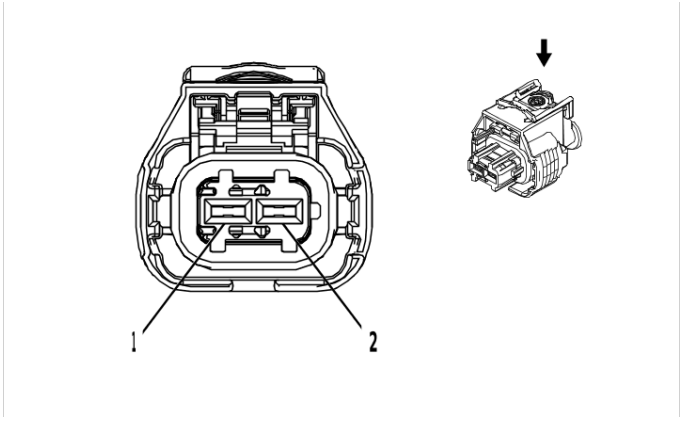
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

X977 Engine Wiring Harness Chassis to Accessory Wiring Harness (L5P & VYU)

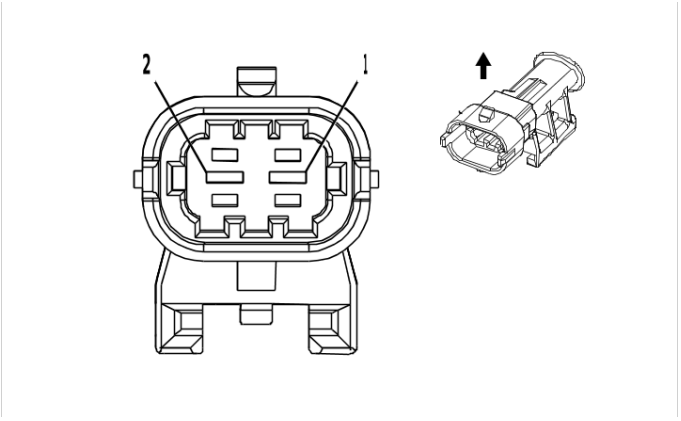
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
(1) 1	(1) 0.5	(1) BN	(1) 25	(1) I	(1) —	(1) Charge Indicator Control	(1) 1	(1) 0.5	(1) BN	(1) 25	(1) II	(1) —
(2) 2	(2) 0.5	(2) GY	(2) 23	(2) I	(2) —	(2) Generator Field Duty Cycle Signal	(2) 2	(2) 0.5	(2) GY	(2) 23	(2) II	(2) —

X977 Engine Wiring Harness to Accessory Wiring Harness (L8T & VYU)



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)



2667643

Connector Part Information
- Harness Type: Accessory Wiring Harness
- OEM Connector: 10864494
- Service Connector: Service by Harness - See Part Catalog
- Description: 2-Way M 2.8 Timer Series, Sealed(BK)

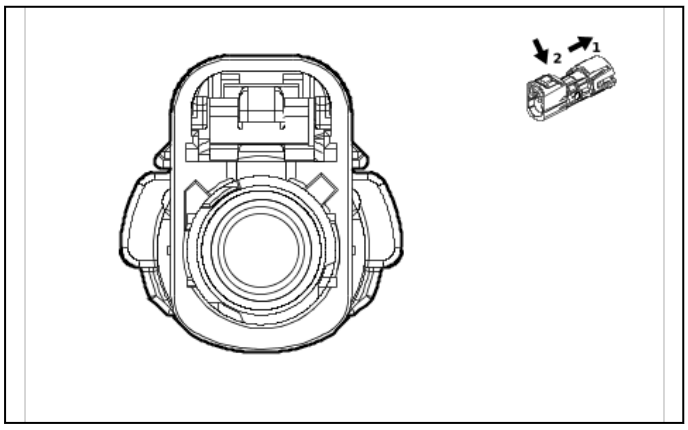
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-35 (VT)	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

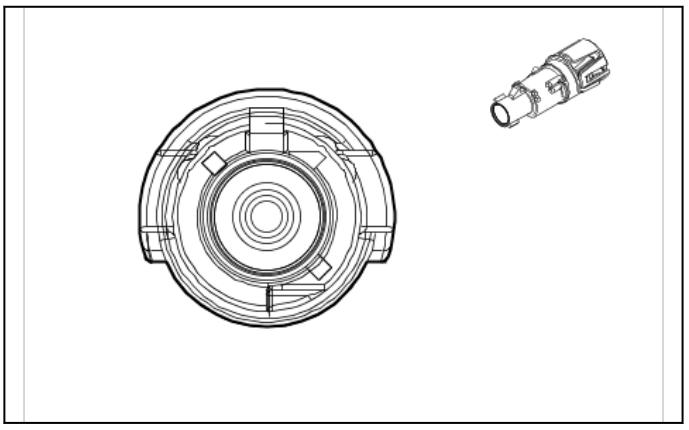
X977 Engine Wiring Harness to Accessory Wiring Harness (L8T & VYU)

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) 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) Generator Field Duty Cycle Signal	(2) 2	(2) 0.5	(2) GY	(2) 23	(2) II	(2) —

X985A Rearview Driver Information Camera Rear Closure Coaxial Cable to Inside Rearview Mirror Wiring Harness (DRZ)



5810829



5633901

Connector Part Information

- Harness Type: Rearview Driver Information Camera Rear Closure Coaxial Cable COAX
- OEM Connector: Not Available
- Service Connector: Service by Cable Assembly — See Part Catalog
- Description: 1-Way F

Connector Part Information

- Harness Type: Inside Rearview Mirror Wiring Harness 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

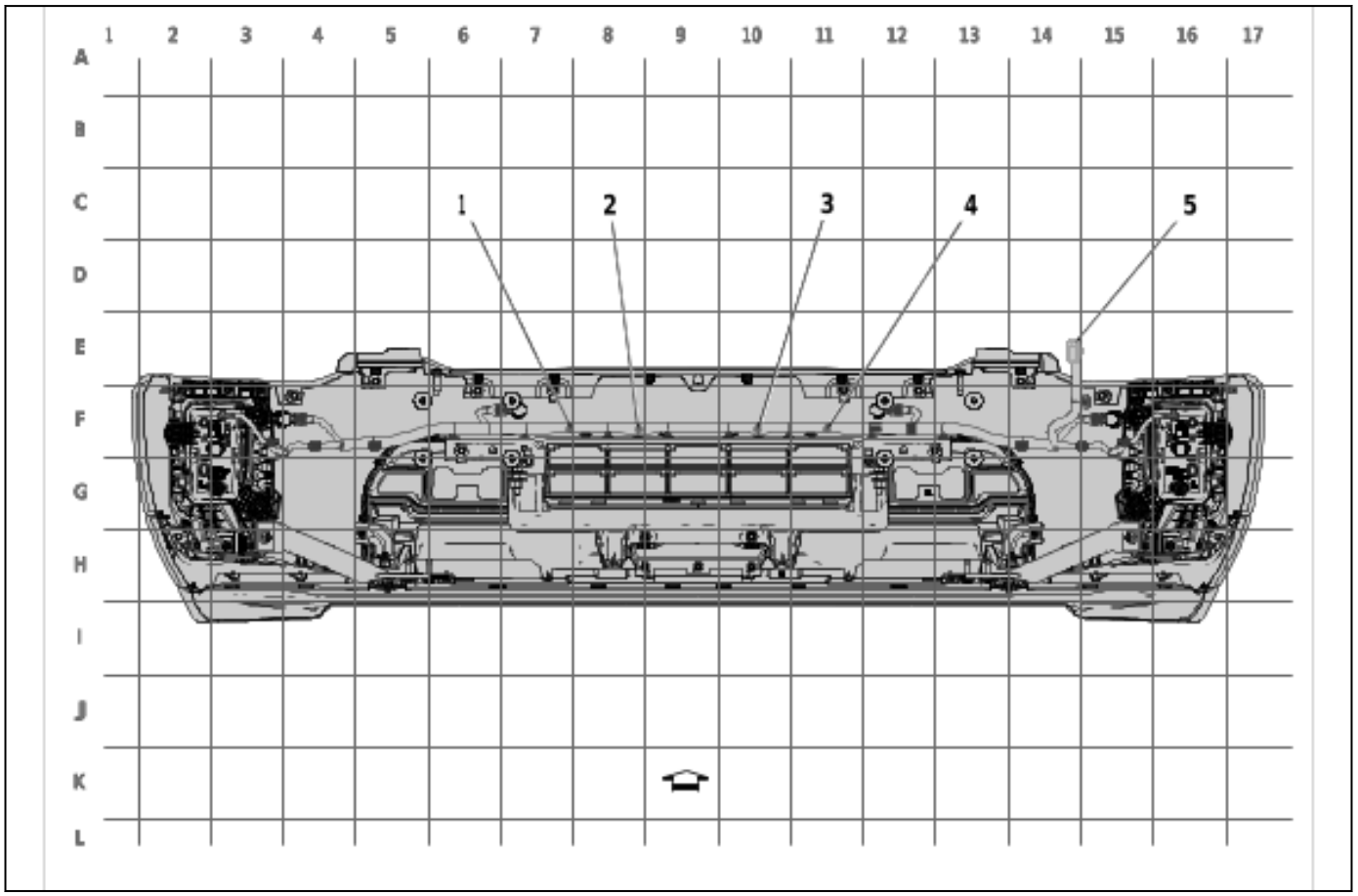
X985A Rearview Driver Information Camera Rear Closure Coaxial Cable to Inside Rearview Mirror Wiring Harness (DRZ)

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	—

Electrical Component Locator and Harness Routing Views

Schematic and Routing Diagrams

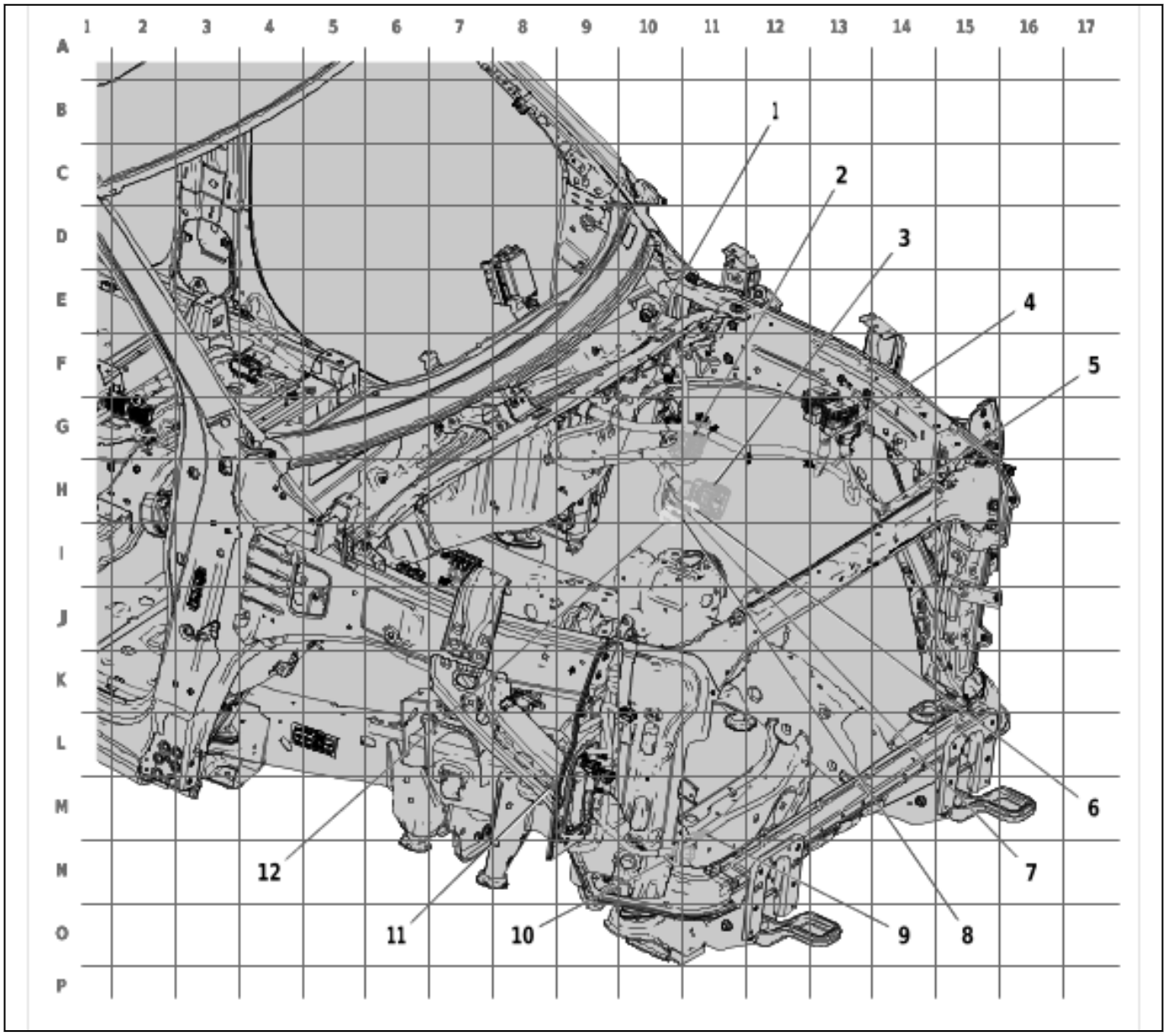
Front of Vehicle - Front Object Alarm Sensor Wiring Harness



6215706

Items
(1) J132 Front Object Alarm Sensor Wiring Harness
(2) J127 Front Object Alarm Sensor Wiring Harness
(3) J129 Front Object Alarm Sensor Wiring Harness
(4) J126 Front Object Alarm Sensor Wiring Harness
(5) 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 - Front

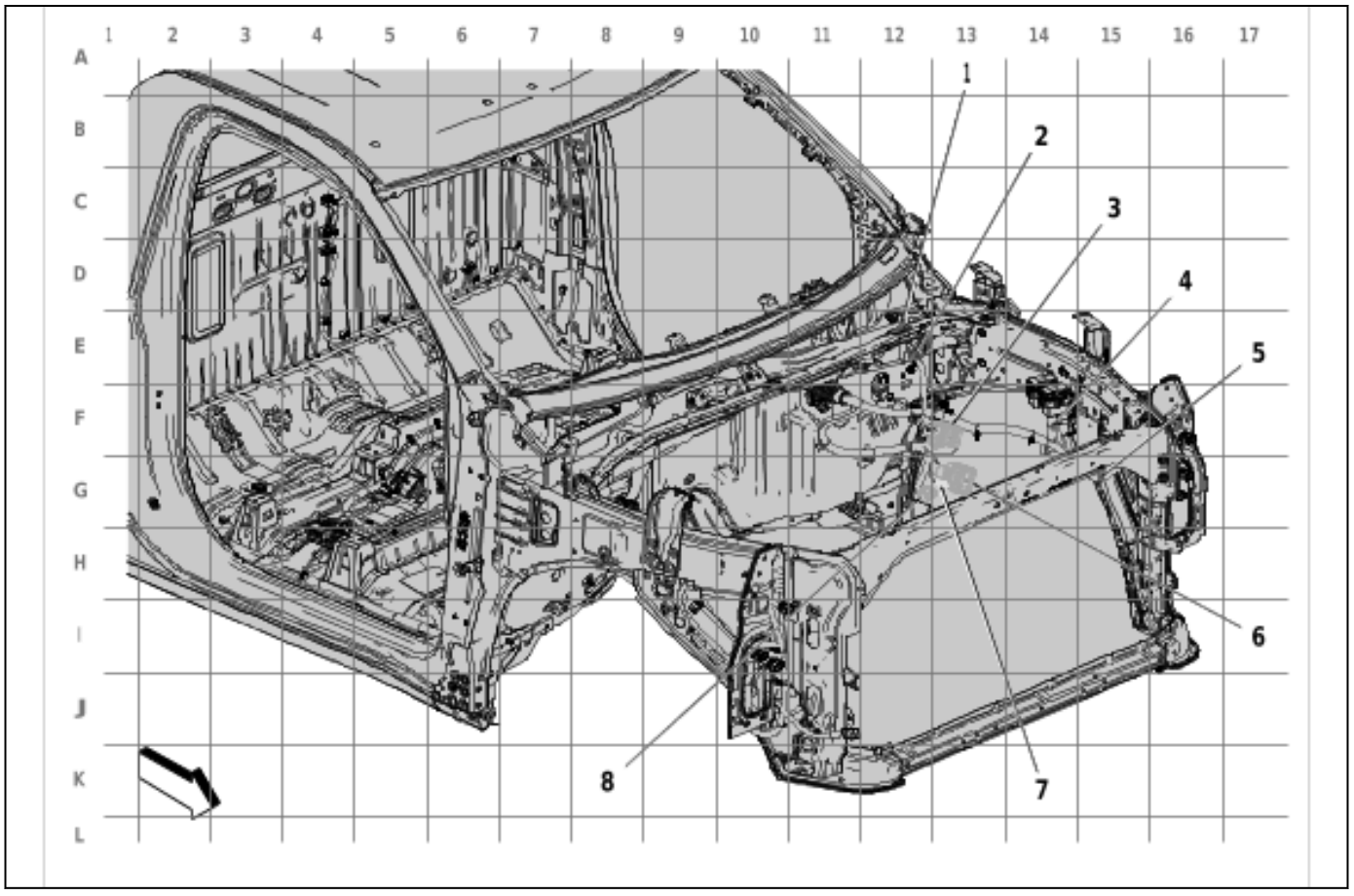


6215710

Items
(1) J326 Body Wiring Harness
(2) X125 Body Wiring Harness to Engine Wiring Harness X125 Body Wiring Harness to Engine Wiring Harness
(3) X410 Body Wiring Harness to Chassis Wiring Harness X410 Body Wiring Harness to Chassis Wiring Harness
(4) J301 Body Wiring Harness
(5) J300 Body Wiring Harness
(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

Items
(8) X402B Body Wiring Harness to Chassis Wiring Harness (UV2)
X402B Body Wiring Harness to Chassis Wiring Harness
(9) X122 Front View Camera Switch Wiring Harness to Body Wiring Harness (UV2)
X122 Front View Camera Switch Wiring Harness to Body Wiring Harness
(10) X150 Front Object Alarm Sensor Wiring Harness to Body Wiring Harness (UKL)
X150 Front Object Alarm Sensor Wiring Harness to Body Wiring Harness
(11) J318 Body Wiring Harness
(12) X424 Body Wiring Harness to Chassis Wiring Harness (FHS)
X424 Body Wiring Harness to Chassis Wiring Harness (-GTY)
X424 Body Wiring Harness to Chassis Wiring Harness (GTY)

Engine Compartment - Body Wiring Harness - Left

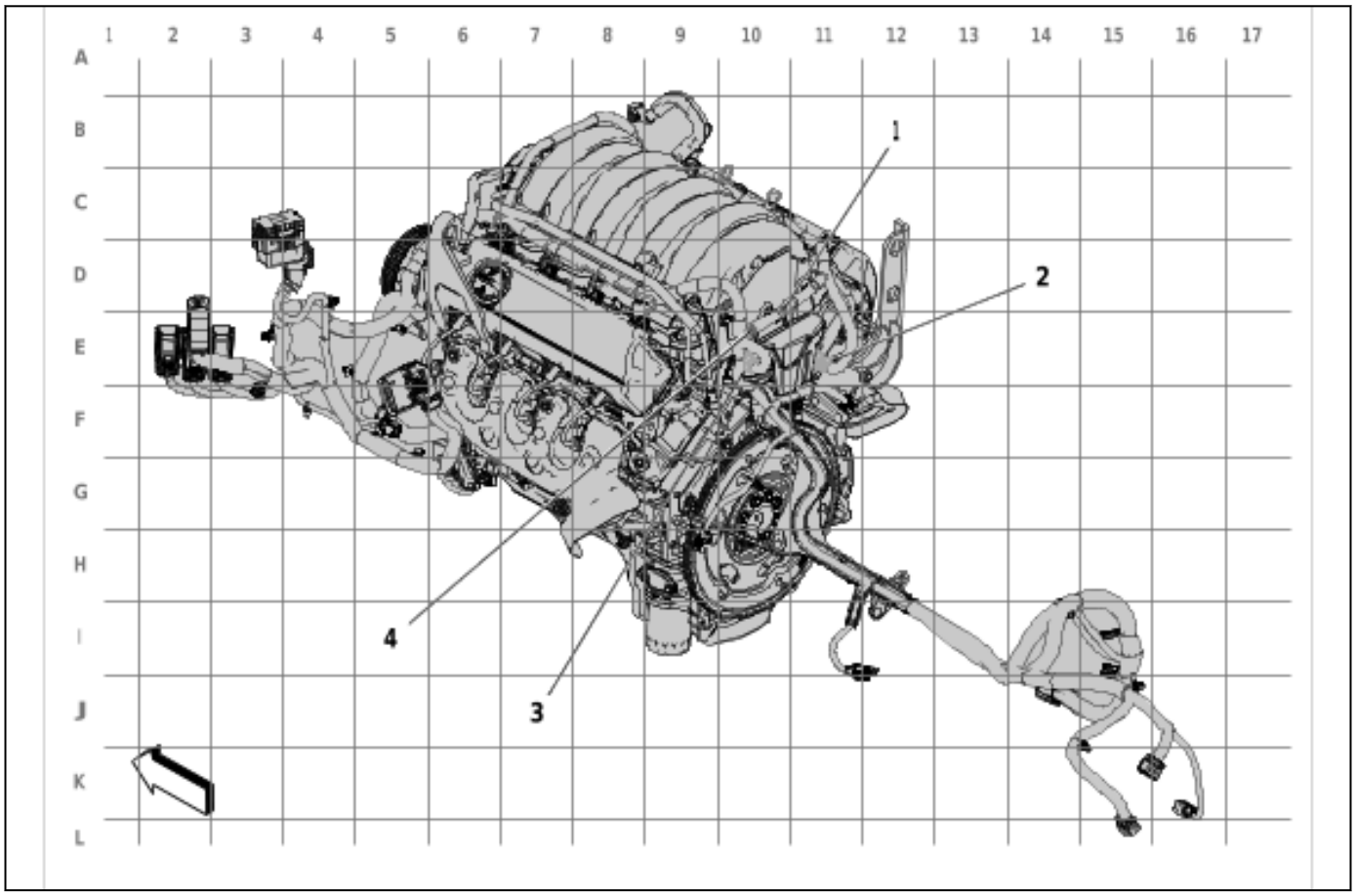


6215711

Items
(1) J326 Body Wiring Harness
(2) J308 Body Wiring Harness
(3) X125 Body Wiring Harness to Engine Wiring Harness
X125 Body Wiring Harness to Engine Wiring Harness
(4) J301 Body Wiring Harness

Items
(5) J300 Body Wiring Harness
(6) X410 Body Wiring Harness to Chassis Wiring Harness X410 Body Wiring Harness to Chassis Wiring Harness
(7) X402C Body Wiring Harness to Chassis Wiring Harness (UV2) X402C Body Wiring Harness to Chassis Wiring Harness
(8) X424 Body Wiring Harness to Chassis Wiring Harness (FHS) X424 Body Wiring Harness to Chassis Wiring Harness (-GTY) X424 Body Wiring Harness to Chassis Wiring Harness (GTY)

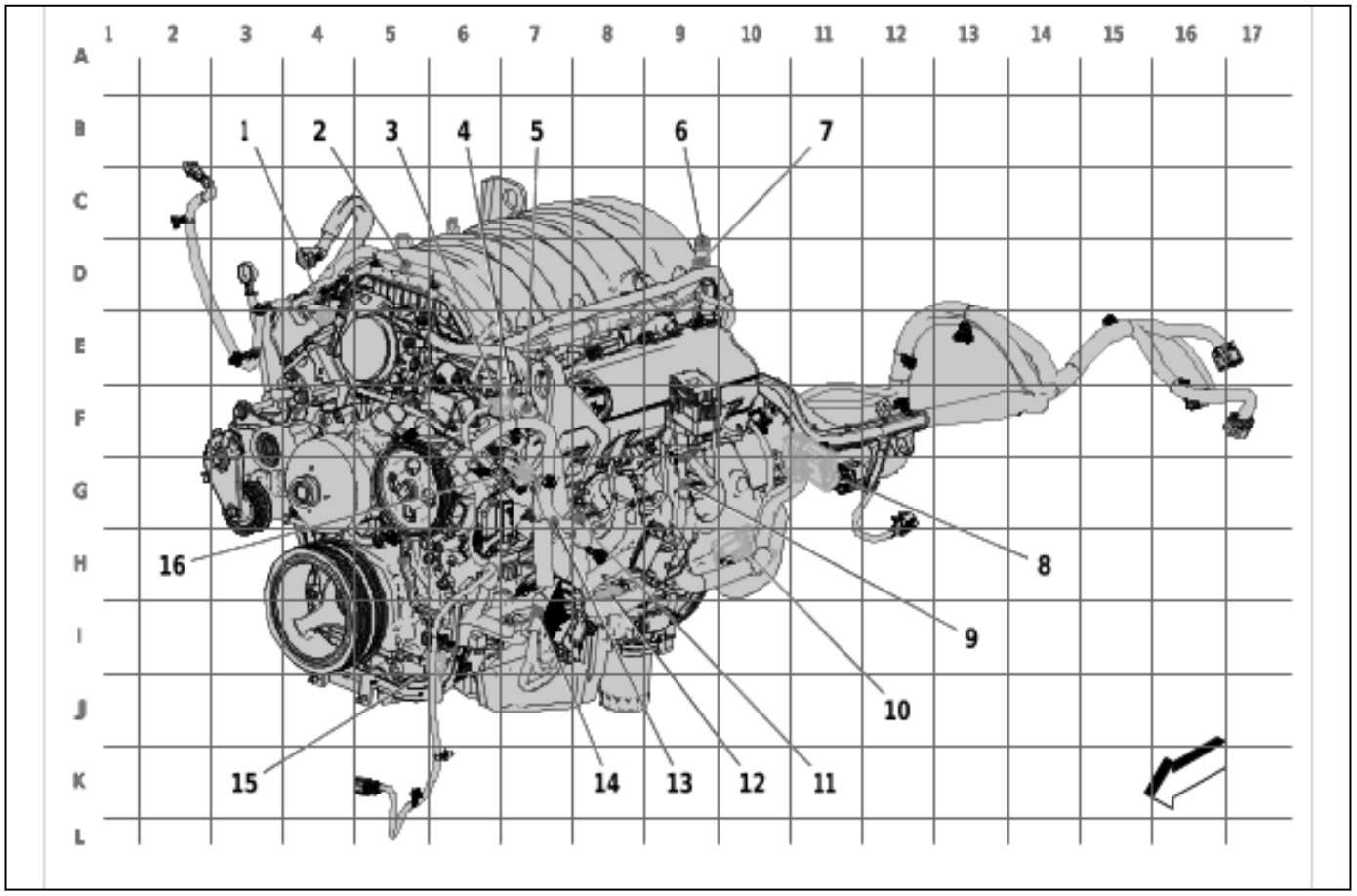
Engine Compartment - Engine Wiring Harness - Left Rear (L8T)



6215712

Items
(1) J107 Engine Wiring Harness (L8T)
(2) X161 Engine Wiring Harness to Fuel Injector Wiring Harness - Right (L8T) X161 Engine Wiring Harness to Fuel Injector Wiring Harness - Right
(3) X160 Engine Wiring Harness to Fuel Injector Wiring Harness - Left (L8T) X160 Engine Wiring Harness to Fuel Injector Wiring Harness - Left
(4) J106 Engine Wiring Harness (L8T)

Engine Compartment - Engine Wiring Harness - Left Front (L8T)

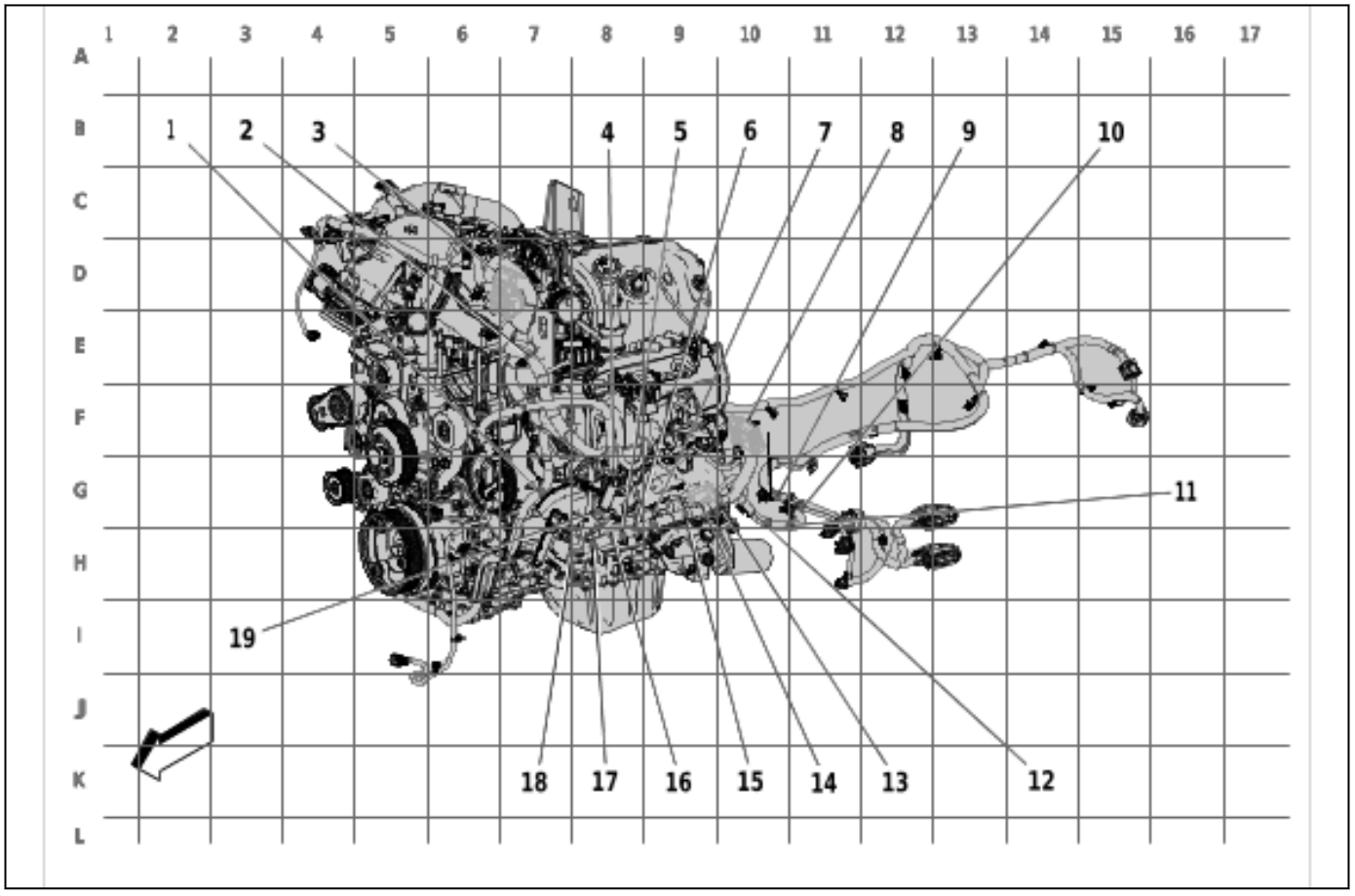


6215713

Items
(1) X977 Engine Wiring Harness Chassis to Accessory Wiring Harness (VYU) X977 Engine Wiring Harness Chassis to Accessory Wiring Harness (L5P & VYU) X977 Engine Wiring Harness to Accessory Wiring Harness (L8T & VYU)
(2) J105 Engine Wiring Harness (L8T)
(3) X135 Engine Wiring Harness to Auxilliary Battery Wiring Harness X135 Engine Wiring Harness to Battery Positive Cable
(4) J104 Engine Wiring Harness (L8T)
(5) J103 Engine Wiring Harness (L8T)
(6) J109 Engine Wiring Harness (L8T)
(7) J108 Engine Wiring Harness (L8T)
(8) X125 Body Wiring Harness to Engine Wiring Harness X125 Body Wiring Harness to Engine Wiring Harness
(9) J112 Engine Wiring Harness
(10) X401 Chassis Wiring Harness to Engine Wiring Harness Chassis (L5P) X401 Chassis Wiring Harness to Engine Wiring Harness
(11) J100 Engine Wiring Harness (L8T)

Items
(12) X415 Engine Wiring Harness to Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness (NP0 / NQH)
X415 Engine Wiring Harness to Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness
(13) J101 Engine Wiring Harness (L8T)
(14) J111 Engine Wiring Harness
(15) X128 Engine Wiring Harness to Camshaft Position Sensor Harness (L8T)
X128 Engine Wiring Harness to Camshaft Position Sensor Wire
(16) X962 Engine Wiring Harness to Engine Coolant Temperature Sensor Harness (L8T)
X962 Engine Wiring Harness to Engine Coolant Temperature Sensor Harness

Engine Compartment - Engine Wiring Harness - Left Front (L5P)

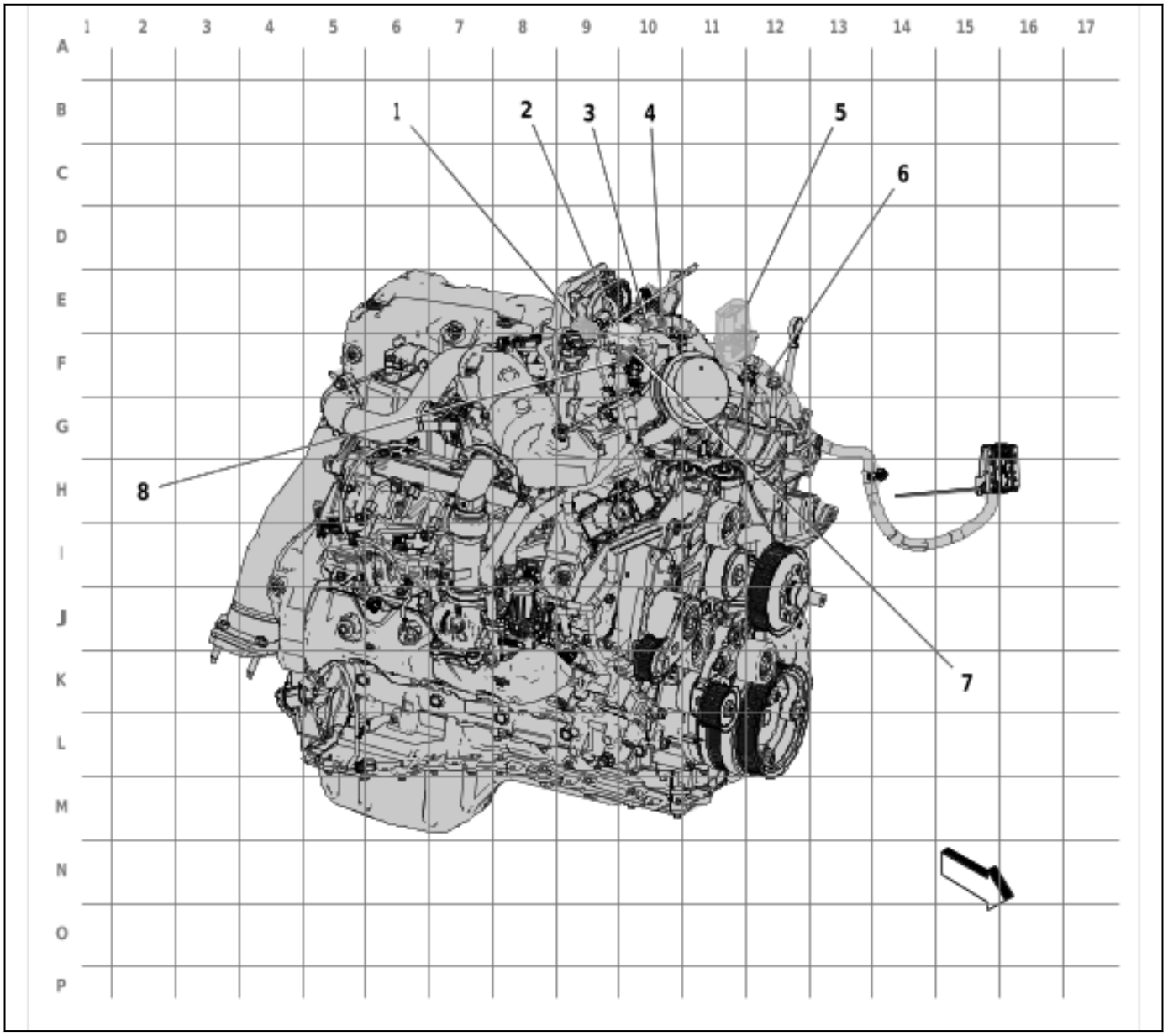


6215718

Items
(1) J110 Engine Wiring Harness
(2) J105 Engine Wiring Harness (L8T)
(3) X950D Engine Wiring Harness Chassis to Engine Wiring Harness
X950D Engine Wiring Harness to Engine Wiring Harness
(4) J123 Engine Wiring Harness (L5P)
(5) J122 Engine Wiring Harness (L5P)

Items
(6) J121 Engine Wiring Harness (L5P)
(7) J120 Engine Wiring Harness (L5P)
(8) X125 Body Wiring Harness to Engine Wiring Harness
X125 Body Wiring Harness to Engine Wiring Harness
(9) J124 Engine Wiring Harness (L5P)
(10) J117 PTO Wiring Harness
(11) J118 Engine Wiring Harness (L5P)
(12) J119 Engine Wiring Harness Chassis (PTO)
(13) J101 Engine Wiring Harness (L8T)
(14) X401 Chassis Wiring Harness to Engine Wiring Harness Chassis (L5P)
X401 Chassis Wiring Harness to Engine Wiring Harness
(15) J112 Engine Wiring Harness
(16) X415 Engine Wiring Harness to Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness (NP0 / NQH)
X415 Engine Wiring Harness to Transfer Case Selector Shift Control Switch Wiring Harness Extension Harness
(17) J100 Engine Wiring Harness (L8T)
(18) J108 Engine Wiring Harness (L8T)
(19) J102 Engine Wiring Harness (L8T)

Engine Compartment - Engine Wiring Harness - Right Front (L5P)

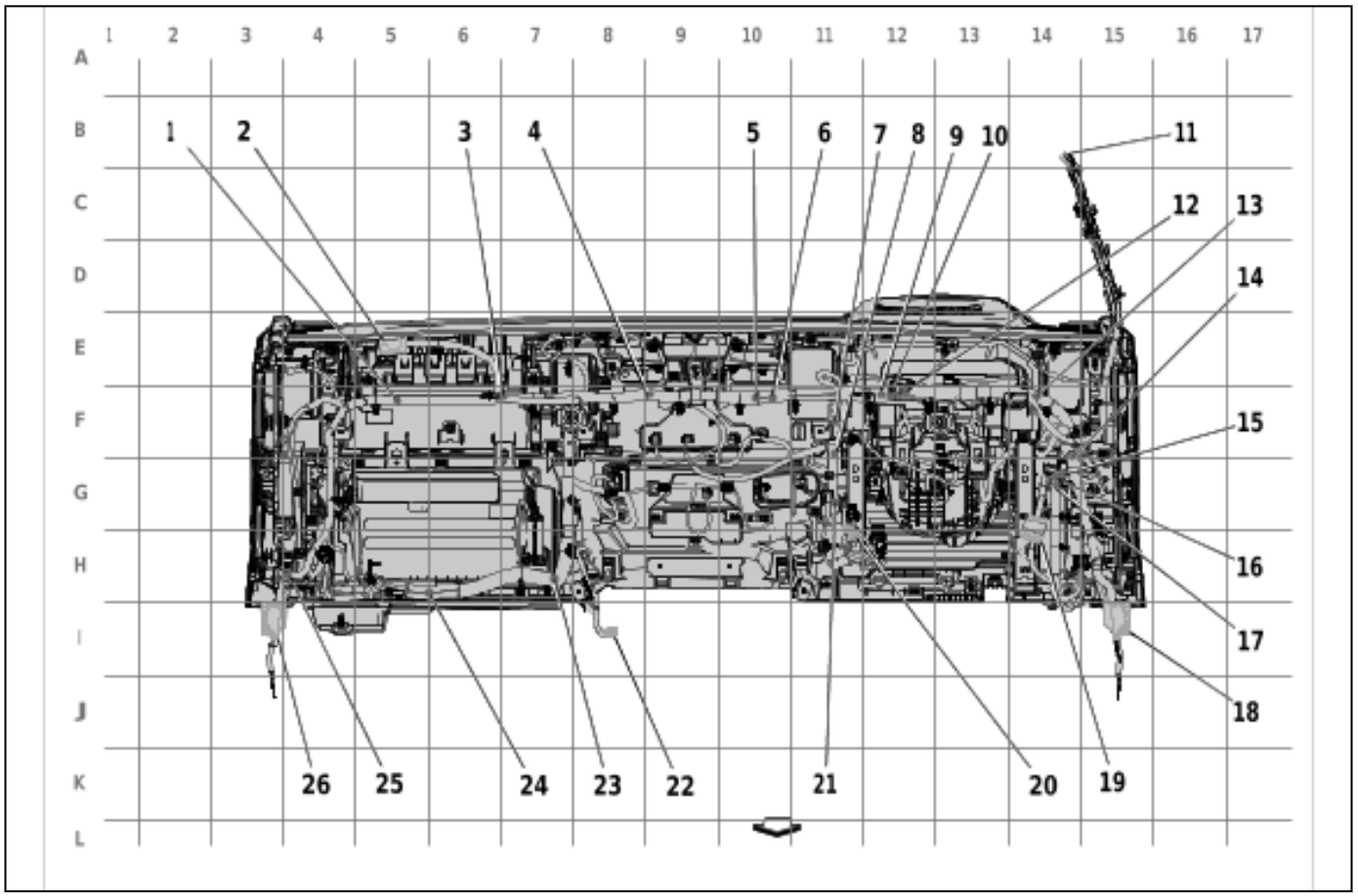


6215719

Items
(1) X960A Engine Wiring Harness to Engine Wiring Harness Extension (L5P)
X960A Engine Wiring Harness to Engine Wiring Harness Extension (L5P)
(2) X960B Engine Wiring Harness to Engine Wiring Harness Extension (L5P)
X960B Engine Wiring Harness to Engine Wiring Harness Extension (L5P)
(3) J114 Engine Wiring Harness (L5P)
(4) J111 Engine Wiring Harness
(5) X950D Engine Wiring Harness Chassis to Engine Wiring Harness
X950D Engine Wiring Harness to Engine Wiring Harness
(6) J113 Engine Wiring Harness (L5P)

Items
(7) J115 Engine Wiring Harness (L5P)
(8) J116 Engine Wiring Harness (L5P)

Instrument Panel Wiring Harness

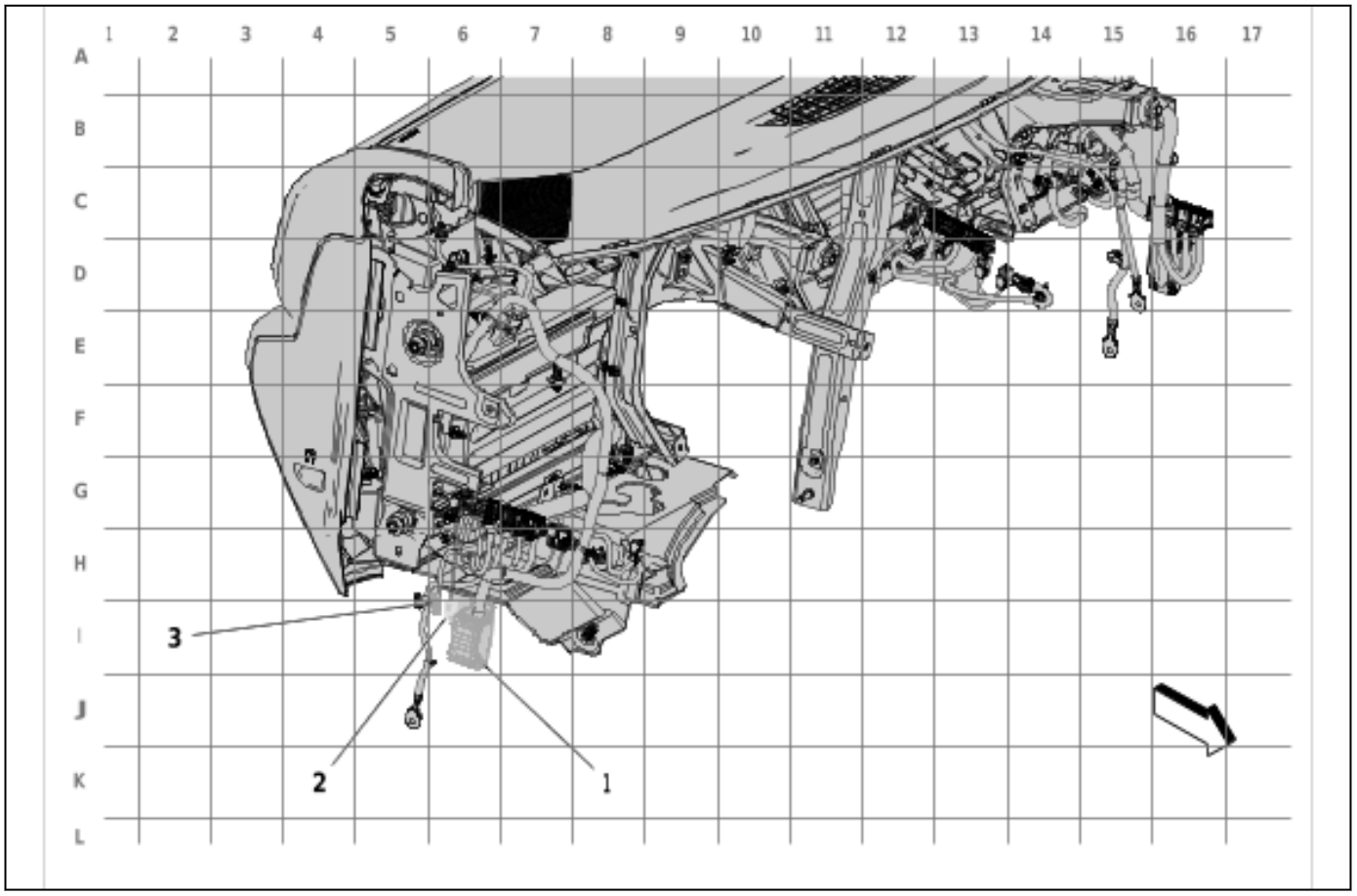


6215721

Items
(1) J213 Instrument Panel Wiring Harness
(2) X370A Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (GFF / GFI) X370A Dome Lamp Wiring Harness to Instrument Panel Wiring Harness
(3) J212 Instrument Panel Wiring Harness
(4) J211 Instrument Panel Wiring Harness
(5) J210 Instrument Panel Wiring Harness
(6) J209 Instrument Panel Wiring Harness
(7) J208 Instrument Panel Wiring Harness
(8) J209 Instrument Panel Wiring Harness
(9) J206 Instrument Panel Wiring Harness
(10) J207 Instrument Panel Wiring Harness
(11) X850 Roof Wiring Harness to Instrument Panel Wiring Harness X850 Roof Wiring Harness to Instrument Panel Wiring Harness
(12) J205 Instrument Panel Wiring Harness

Items
(13) J205 Instrument Panel Wiring Harness
(14) J204 Instrument Panel Wiring Harness
(15) J201 Instrument Panel Wiring Harness
(16) J200 Instrument Panel Wiring Harness
(17) J202 Instrument Panel Wiring Harness
(18) X210 Instrument Panel Wiring Harness to Body Wiring Harness
X210 Instrument Panel Wiring Harness to Body Wiring Harness
(19) X213 Auxiliary Fuse Block Wiring Harness to Instrument Panel Wiring Harness
X213 Auxiliary Fuse Block Wiring Harness to Instrument Panel Wiring Harness
(20) X250 Instrument Panel Wiring Harness to Heater Wiring Harness
X250 Instrument Panel Wiring Harness to Heater Wiring Harness
(21) J209 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) J210 Instrument Panel Wiring Harness
(24) J207 Instrument Panel Wiring Harness
(25) J215 Instrument Panel Wiring Harness
(26) X211 Instrument Panel Wiring Harness to Body Wiring Harness
X211 Instrument Panel Wiring Harness to Body Wiring Harness

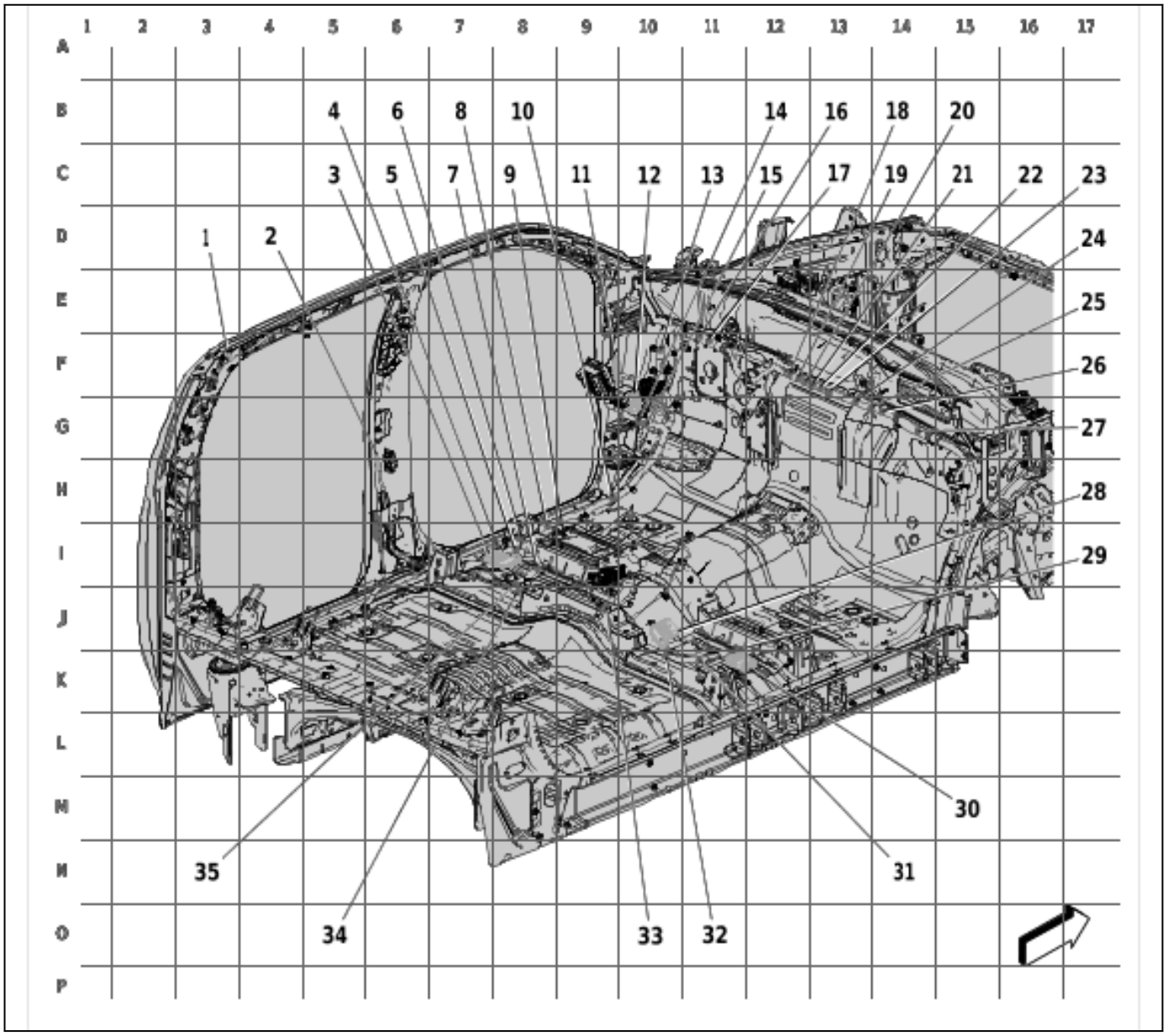
Instrument Panel Wiring Harness - Right



6215722

Items
(1) X211 Instrument Panel Wiring Harness to Body Wiring Harness
X211 Instrument Panel Wiring Harness to Body Wiring Harness
(2) X217 Body Wiring Harness to Instrument Panel Wiring Harness
X217 Body Wiring Harness to Instrument Panel Wiring Harness
(3) X218 Instrument Panel Wiring Harness to Body Wiring Harness
X218 Instrument Panel Wiring Harness to Body Wiring Harness

Passenger Compartment - Body Wiring Harness - Left Front - Double Cab/Crew Cab

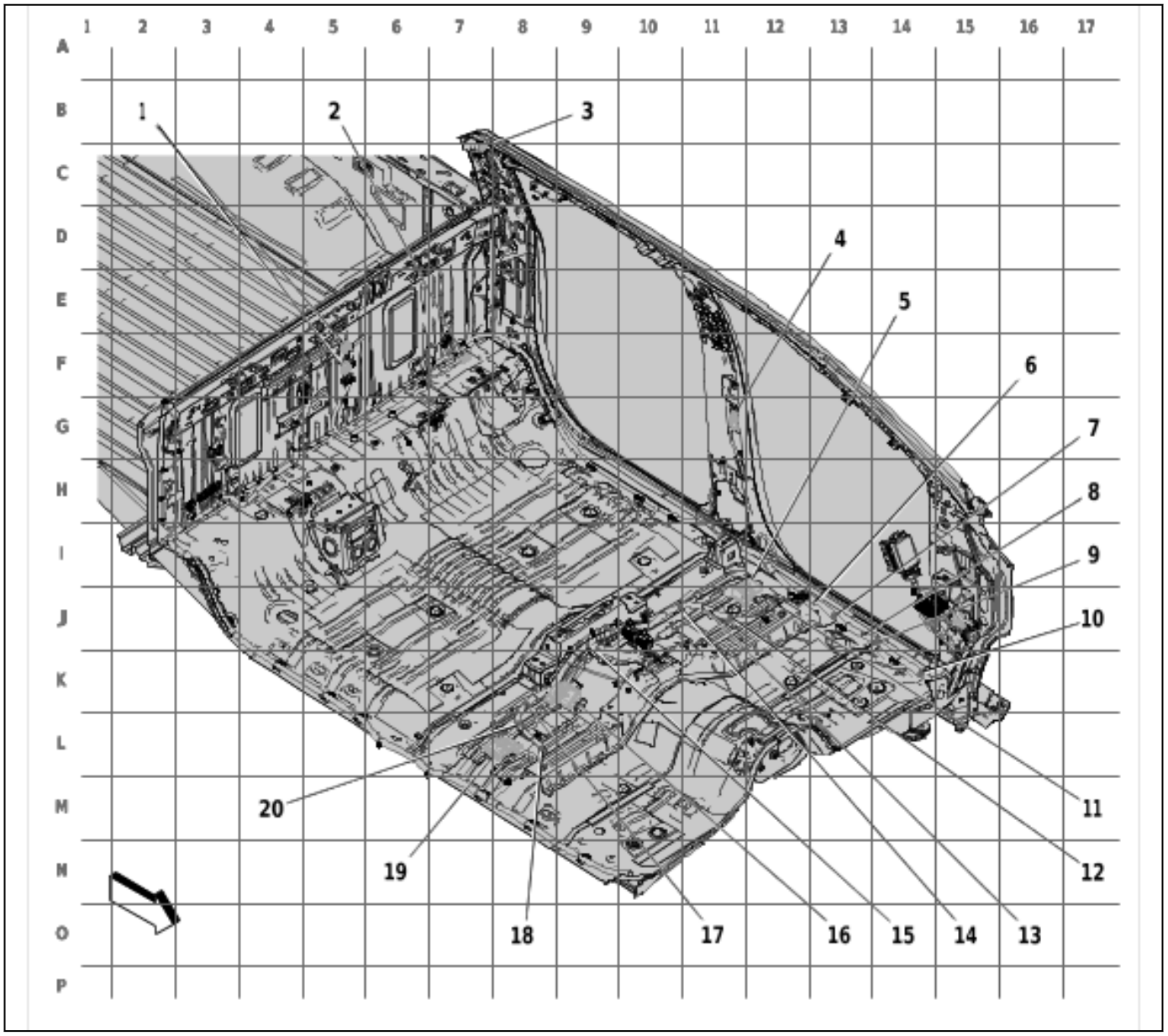


6215726

Items
(1) X309A Body Wiring Harness to Inside Rearview Mirror Wiring Harness
X309A Body Wiring Harness to Inside Rearview Mirror Wiring Harness
(2) X700 Rear Side Door Door Wiring Harness - Left to Body Wiring Harness (Double Cab / Crew Cab)
X700 Rear Side Door Door Wiring Harness - Left to Body Wiring Harness
(3) X331 Front Seat Wiring Harness - Driver to Body Wiring Harness
X331 Front Seat Wiring Harness - Driver to Body Wiring Harness
(4) J336 Body Wiring Harness
(5) J330 Body Wiring Harness
(6) J327 Body Wiring Harness

Items
(7) J331 Body Wiring Harness
(8) J312 Body Wiring Harness
(9) J311 Body Wiring Harness
(10) J310 Body Wiring Harness
(11) X500 Front Side Door Door Wiring Harness - Left to Body Wiring Harness
X500 Front Side Door Door Wiring Harness - Left to Body Wiring Harness
(12) X210 Instrument Panel Wiring Harness to Body Wiring Harness
X210 Instrument Panel Wiring Harness to Body Wiring Harness
(13) J308 Body Wiring Harness
(14) J328 Body Wiring Harness
(15) J309 Body Wiring Harness
(16) J303 Body Wiring Harness
(17) J302 Body Wiring Harness
(18) J307 Body Wiring Harness
(19) J306 Body Wiring Harness
(20) J305 Body Wiring Harness
(21) J304 Body Wiring Harness
(22) J329 Body Wiring Harness
(23) J322 Body Wiring Harness
(24) J321 Body Wiring Harness
(25) J385 Body Wiring Harness
(26) J320 Body Wiring Harness
(27) J319 Body Wiring Harness
(28) X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07)
X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07) X227 Front Seat Wiring Harness - Center to Body Wiring Harness (AZ3)
(29) J334 Body Wiring Harness
(30) X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
(31) J325 Body Wiring Harness
(32) J333 Body Wiring Harness
(33) J313 Body Wiring Harness
(34) J314 Body Wiring Harness
(35) J315 Body Wiring Harness

Passenger Compartment - Body Wiring Harness - Middle - Double Cab/Crew Cab

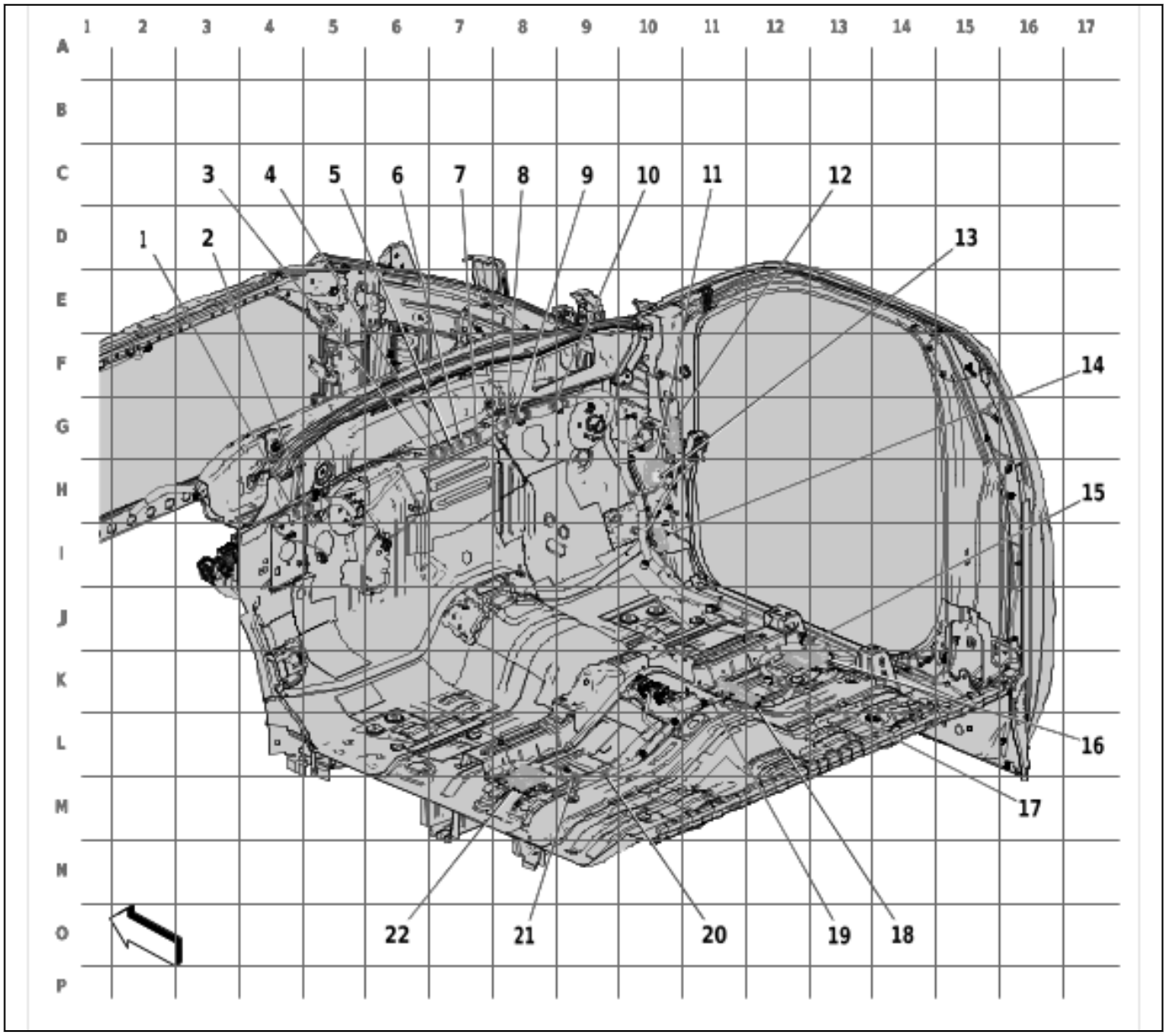


6215728

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
(2) X340 Body Wiring Harness to Rear Seat Heater Control Wiring Harness (KA6)
X340 Body Wiring Harness to Rear Seat Heater Control Wiring Harness
(3) X309A Body Wiring Harness to Inside Rearview Mirror Wiring Harness
X309A Body Wiring Harness to Inside Rearview Mirror Wiring Harness
(4) X700 Rear Side Door Door Wiring Harness - Left to Body Wiring Harness (Double Cab / Crew Cab)
X700 Rear Side Door Door Wiring Harness - Left to Body Wiring Harness

Items
(5) X331 Front Seat Wiring Harness - Driver to Body Wiring Harness
X331 Front Seat Wiring Harness - Driver to Body Wiring Harness
(6) J336 Body Wiring Harness
(7) J327 Body Wiring Harness
(8) J312 Body Wiring Harness
(9) J311 Body Wiring Harness
(10) J310 Body Wiring Harness
(11) J330 Body Wiring Harness
(12) J331 Body Wiring Harness
(13) J315 Body Wiring Harness
(14) J314 Body Wiring Harness
(15) J313 Body Wiring Harness
(16) X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07)
X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07) X227 Front Seat Wiring Harness - Center to Body Wiring Harness (AZ3)
(17) J333 Body Wiring Harness
(18) J334 Body Wiring Harness
(19) X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
(20) J325 Body Wiring Harness

Passenger Compartment - Body Wiring Harness - Right Front - Regular Cab

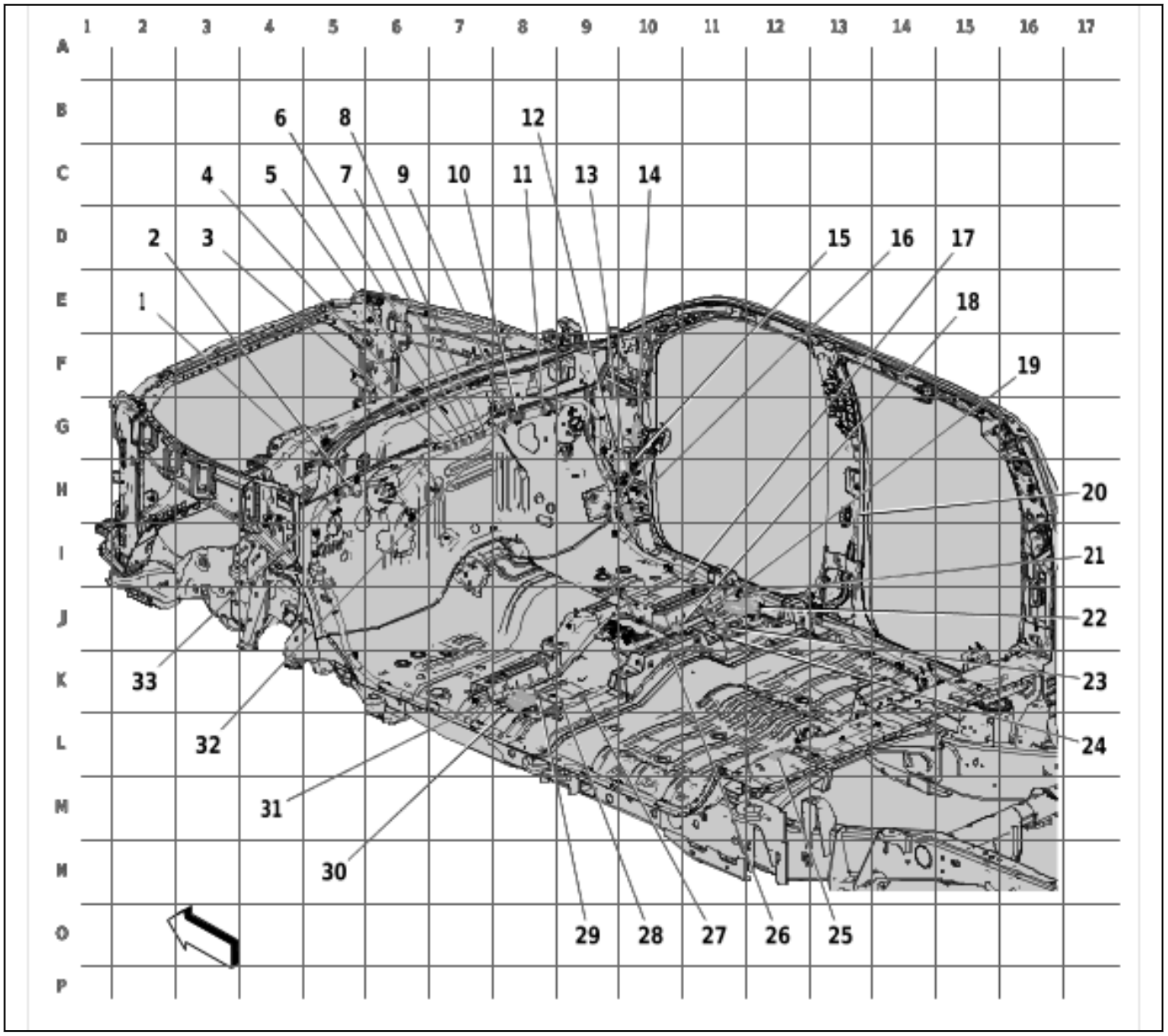


6215729

Items
(1) J303 Body Wiring Harness
(2) J302 Body Wiring Harness
(3) J307 Body Wiring Harness
(4) J306 Body Wiring Harness
(5) J305 Body Wiring Harness
(6) J304 Body Wiring Harness
(7) J322 Body Wiring Harness
(8) J321 Body Wiring Harness
(9) J320 Body Wiring Harness
(10) J319 Body Wiring Harness

Items
(11) X211 Instrument Panel Wiring Harness to Body Wiring Harness
X211 Instrument Panel Wiring Harness to Body Wiring Harness
(12) X600 Front Side Door Door Wiring Harness - Right to Body Wiring Harness
X600 Front Side Door Door Wiring Harness - Right to Body Wiring Harness
(13) X217 Body Wiring Harness to Instrument Panel Wiring Harness
X217 Body Wiring Harness to Instrument Panel Wiring Harness
(14) X251 Auxiliary Heater Wiring Harness to Body Wiring Harness (C32)
X251 Air Heater Jumper Wiring Harness to Body Wiring Harness
(15) J323 Body Wiring Harness
(16) X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
(17) J325 Body Wiring Harness
(18) X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07)
X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07) X227 Front Seat Wiring Harness - Center to Body Wiring Harness (AZ3)
(19) J313 Body Wiring Harness
(20) J314 Body Wiring Harness
(21) J315 Body Wiring Harness
(22) 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 - Right Front -Double Cab/Crew Cab

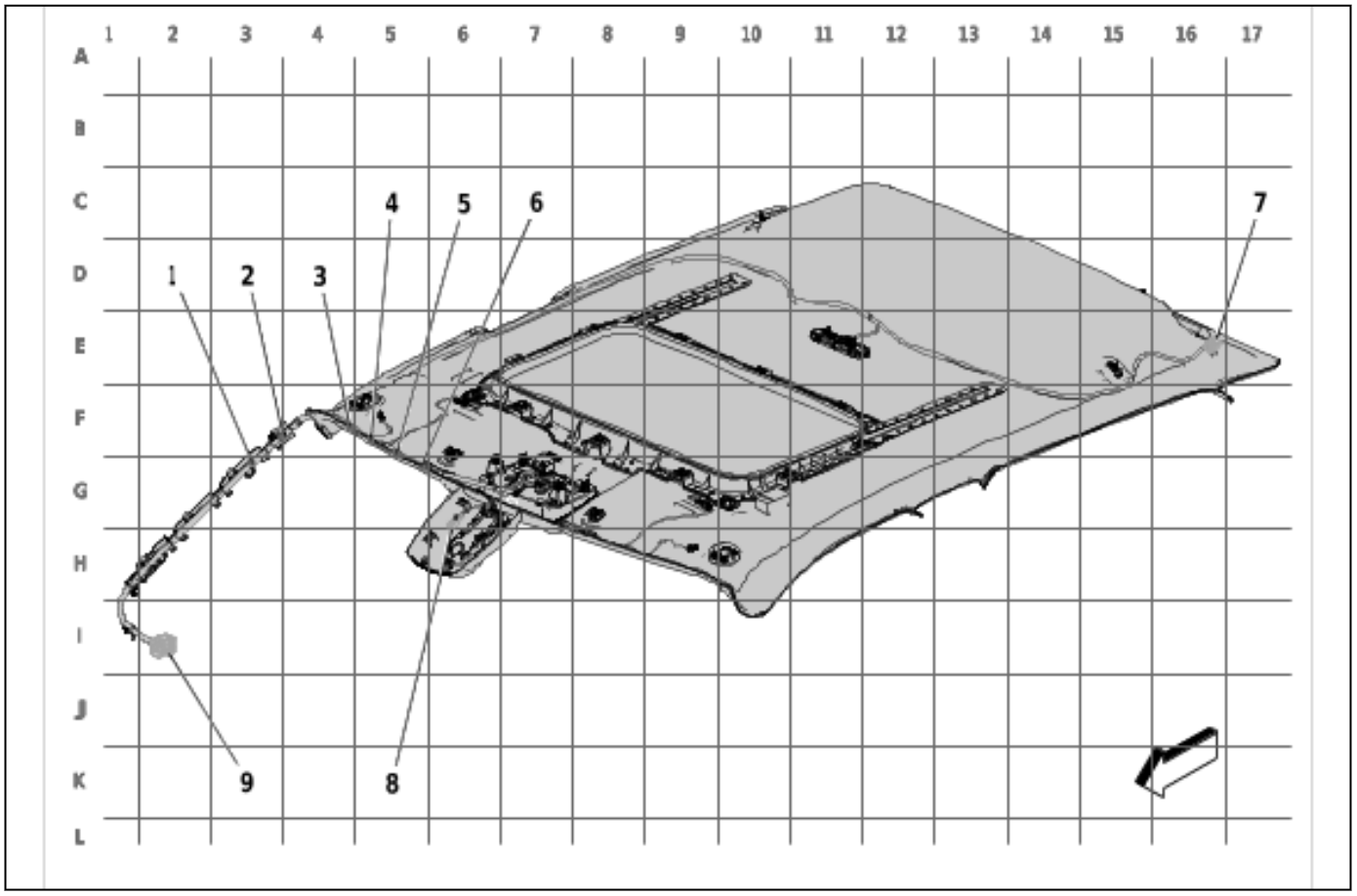


6215730

Items
(1) J326 Body Wiring Harness
(2) J302 Body Wiring Harness
(3) J307 Body Wiring Harness
(4) J306 Body Wiring Harness
(5) J305 Body Wiring Harness
(6) J304 Body Wiring Harness
(7) J329 Body Wiring Harness
(8) J322 Body Wiring Harness
(9) J385 Body Wiring Harness
(10) J320 Body Wiring Harness
(11) J319 Body Wiring Harness

Items
(12) X211 Instrument Panel Wiring Harness to Body Wiring Harness
X211 Instrument Panel Wiring Harness to Body Wiring Harness
(13) X217 Body Wiring Harness to Instrument Panel Wiring Harness
X217 Body Wiring Harness to Instrument Panel Wiring Harness
(14) X600 Front Side Door Door Wiring Harness - Right to Body Wiring Harness
X600 Front Side Door Door Wiring Harness - Right to Body Wiring Harness
(15) X218 Instrument Panel Wiring Harness to Body Wiring Harness
X218 Instrument Panel Wiring Harness to Body Wiring Harness
(16) X251 Auxiliary Heater Wiring Harness to Body Wiring Harness (C32)
X251 Air Heater Jumper Wiring Harness to Body Wiring Harness
(17) J332 Body Wiring Harness
(18) X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07)
X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07) X227 Front Seat Wiring Harness - Center to Body Wiring Harness (AZ3)
(19) J334 Body Wiring Harness
(20) X800 Rear Side Door Door Wiring Harness - Right to Body Wiring Harness (Double Cab / Crew Cab)
X800 Rear Side Door Door Wiring Harness - Right to Body Wiring Harness
(21) J323 Body Wiring Harness
(22) X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
(23) J325 Body Wiring Harness
(24) J333 Body Wiring Harness
(25) X340 Body Wiring Harness to Rear Seat Heater Control Wiring Harness (KA6)
X340 Body Wiring Harness to Rear Seat Heater Control Wiring Harness
(26) J313 Body Wiring Harness
(27) J314 Body Wiring Harness
(28) J315 Body Wiring Harness
(29) J331 Body Wiring Harness
(30) X331 Front Seat Wiring Harness - Driver to Body Wiring Harness
X331 Front Seat Wiring Harness - Driver to Body Wiring Harness
(31) J330 Body Wiring Harness
(32) J321 Body Wiring Harness
(33) J303 Body Wiring Harness

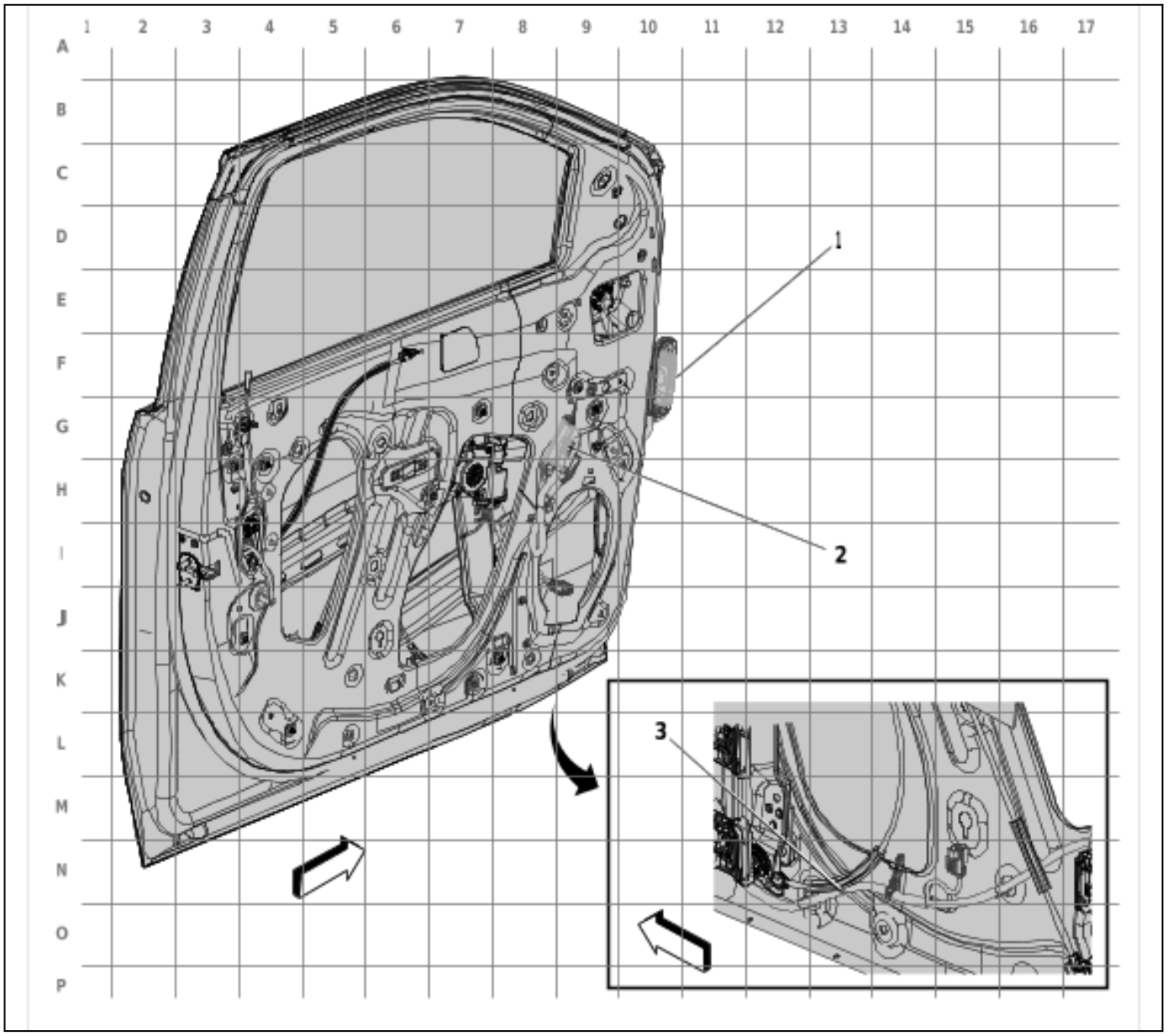
Roof - Dome Lamp Wiring Harness - Double Cab



6215737

Items
(1) J364 Dome Lamp Wiring Harness
(2) J363 Dome Lamp Wiring Harness
(3) J365 Dome Lamp Wiring Harness
(4) J366 Dome Lamp Wiring Harness
(5) J367 Dome Lamp Wiring Harness
(6) J368 Dome Lamp Wiring Harness
(7) X371A Inside Rearview Mirror Wiring Harness to Dome Lamp Wiring Harness X371A Inside Rearview Mirror Wiring Harness to Dome Lamp Wiring Harness
(8) 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
(9) X370A Dome Lamp Wiring Harness to Instrument Panel Wiring Harness (GFF / GFI) X370A Dome Lamp Wiring Harness to Instrument Panel Wiring Harness

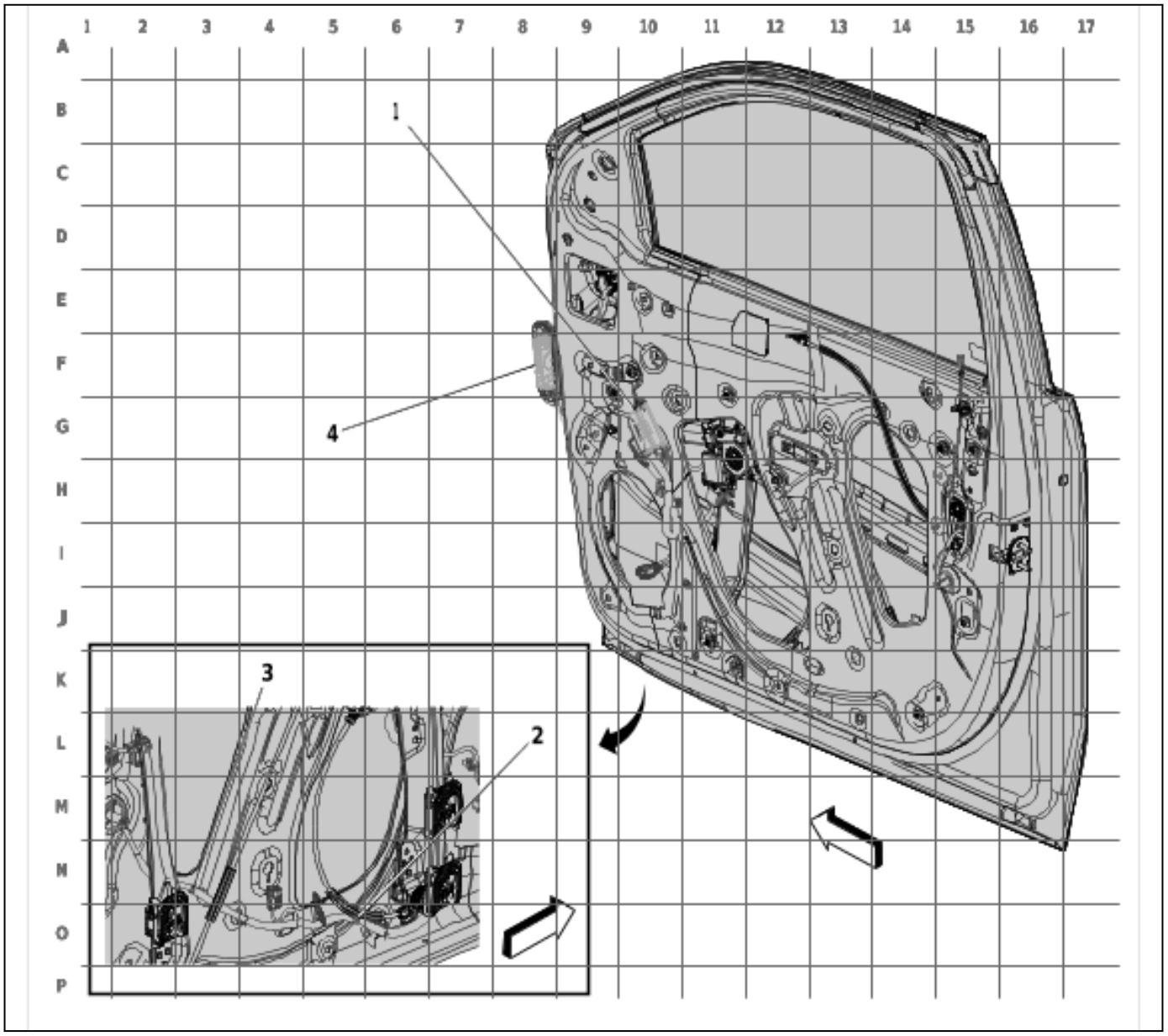
Door Harness Routing - Driver



6343135

Items
(1) X500 Front Side Door Door Wiring Harness - Left to Body Wiring Harness
X500 Front Side Door Door Wiring Harness - Left to Body Wiring Harness
(2) X505 Front Side Door Door Wiring Harness - Left to Front Side Door Door Lock Door Wiring Harness - Left
X505 Front Side Door Door Wiring Harness - Left to Front Side Door Door Lock Door Wiring Harness - Left
(3) J501 Front Side Door Door Wiring Harness - Driver

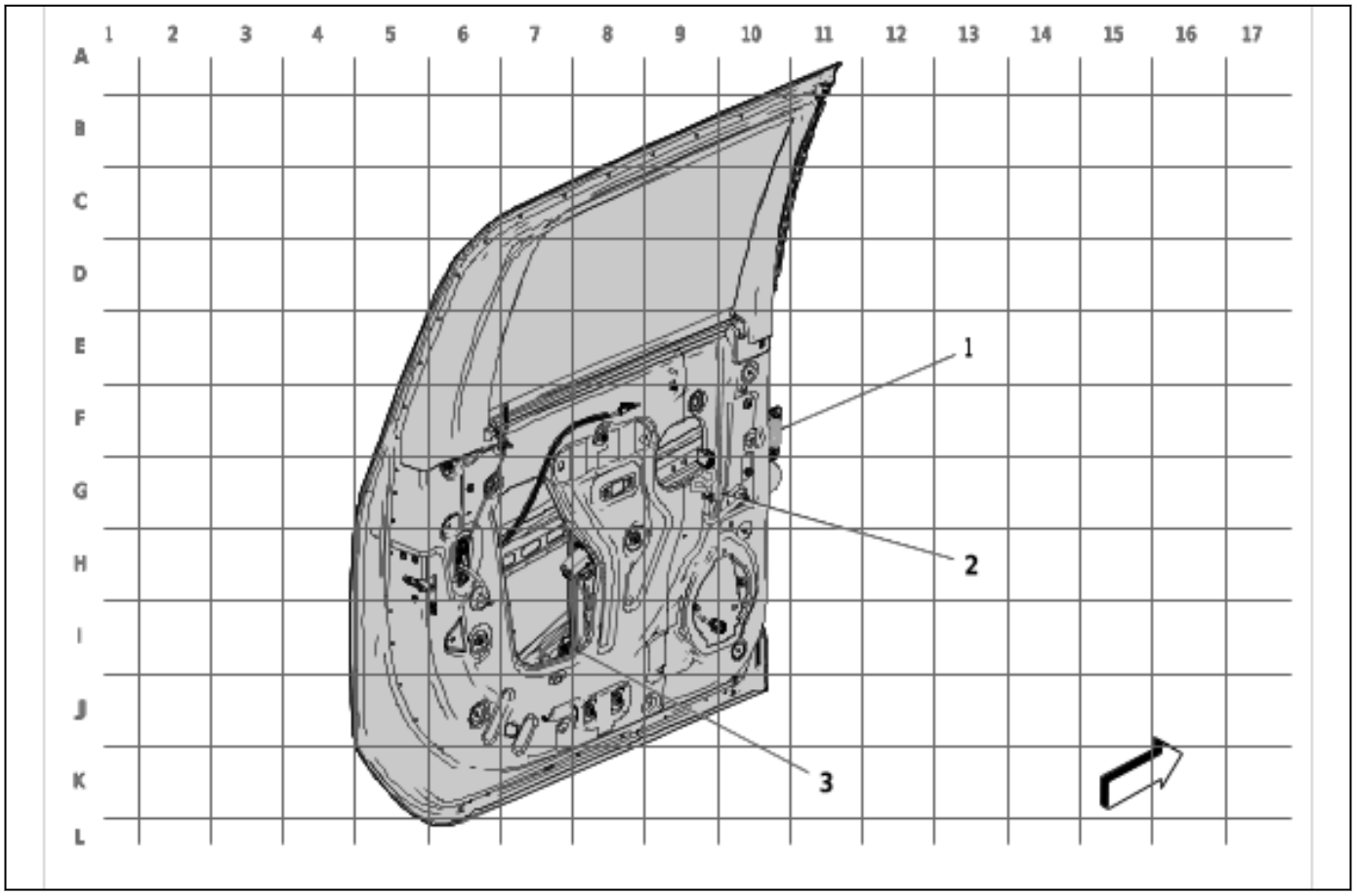
Door Harness Routing - Passenger



6343136

Items
(1) X605 Front Side Door Door Wiring Harness - Right to Front Side Door Door Lock Door Wiring Harness - Right
X605 Front Side Door Door Wiring Harness - Right to Front Side Door Door Lock Door Wiring Harness - Right
(2) J601 Front Side Door Door Wiring Harness - Passenger
(3) J602 Front Side Door Door Wiring Harness - Passenger
(4) X600 Front Side Door Door Wiring Harness - Right to Body Wiring Harness
X600 Front Side Door Door Wiring Harness - Right to Body Wiring Harness

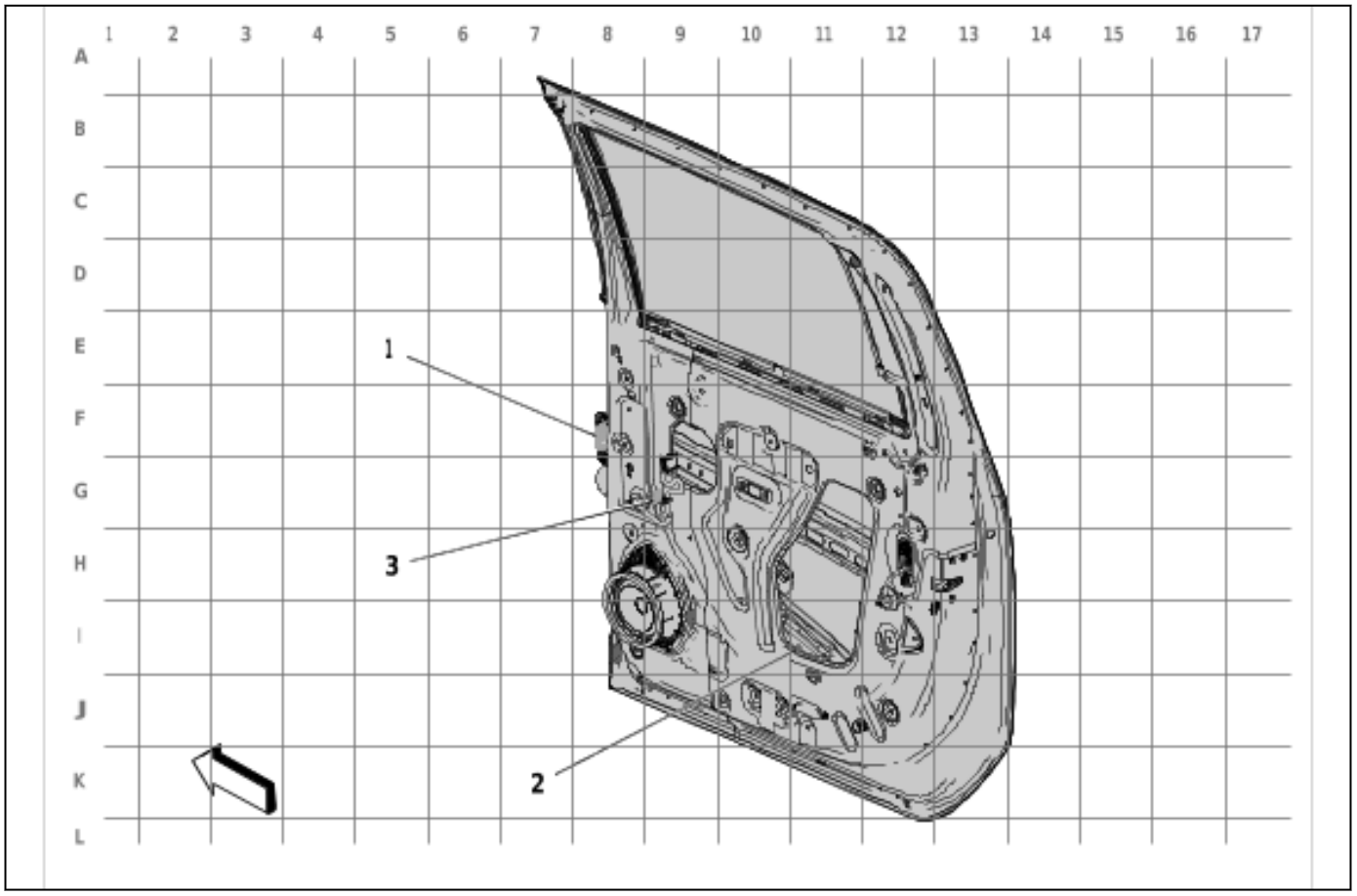
Door Harness Routing - Left Rear - Crew/Extended Cab



6343137

Items
(1) X700 Rear Side Door Door Wiring Harness - Left to Body Wiring Harness (Double Cab / Crew Cab)
X700 Rear Side Door Door Wiring Harness - Left to Body Wiring Harness
(2) X701 Rear Side Door Door Wiring Harness - Left to Rear Side Door Wiring Harness - Tweeter Jumper (UQS)
X701 Rear Side Door Door Wiring Harness - Left to Rear Side Door Wiring Harness
(3) J700 Rear Side Door Door Wiring Harness - Left

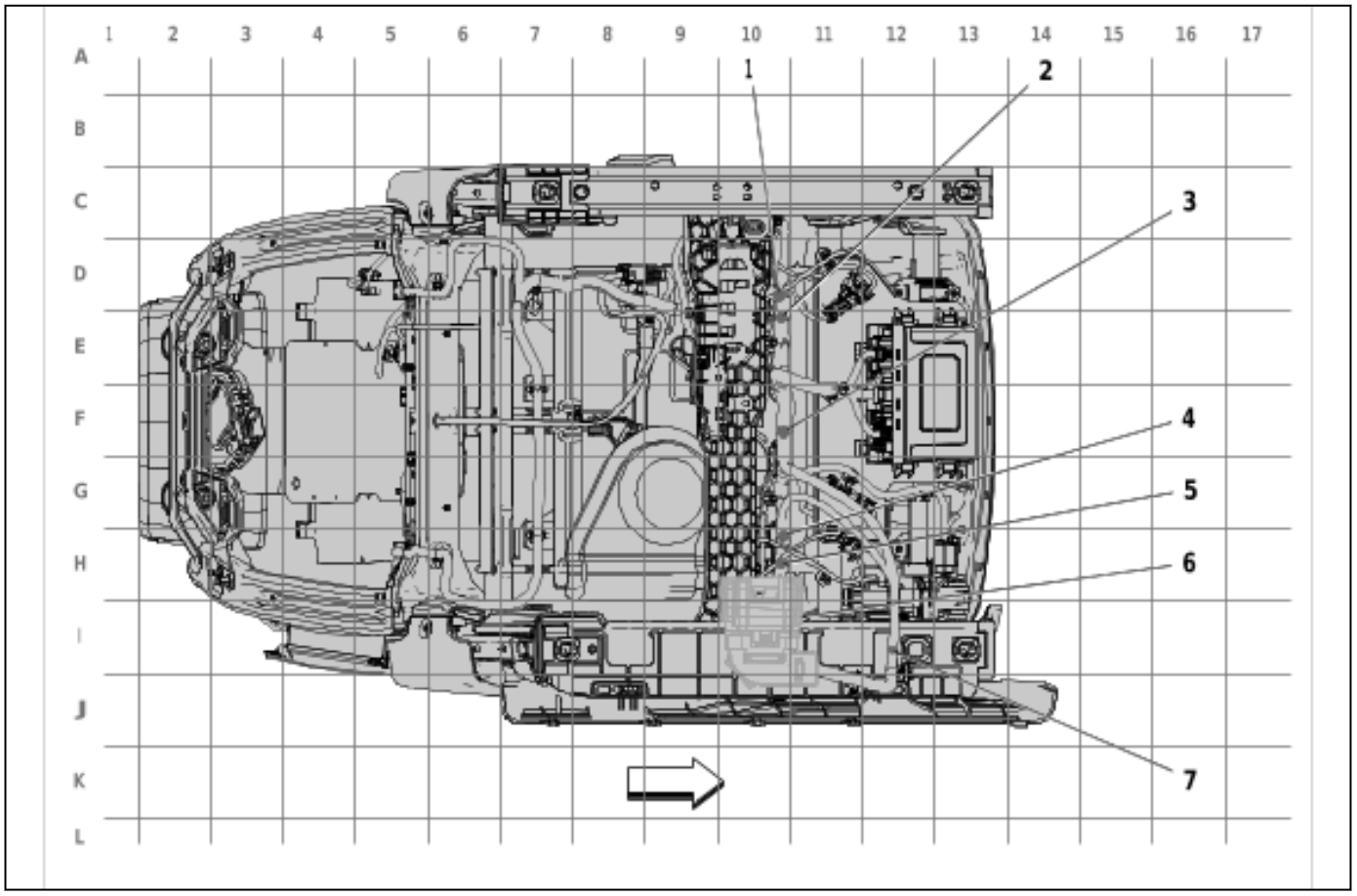
Door Harness Routing - Right Rear - Crew/Extended Cab



6343138

Items
(1) X800 Rear Side Door Door Wiring Harness - Right to Body Wiring Harness (Double Cab / Crew Cab)
X800 Rear Side Door Door Wiring Harness - Right to Body Wiring Harness
(2) J800 Rear Side Door Door Wiring Harness - Right
(3) X801 Rear Side Door Door Wiring Harness - Right to Rear Side Door Wiring Harness - Tweeter Jumper (UQS)
X801 Rear Side Door Door Wiring Harness - Right to Rear Side Door Wiring Harness

Driver Seat Harness Routing



6398241

Items

(2) J376 Front Seat Wiring Harness - Driver

(3) J373 Front Seat Wiring Harness - Driver

(4) J372 Front Seat Wiring Harness - Driver

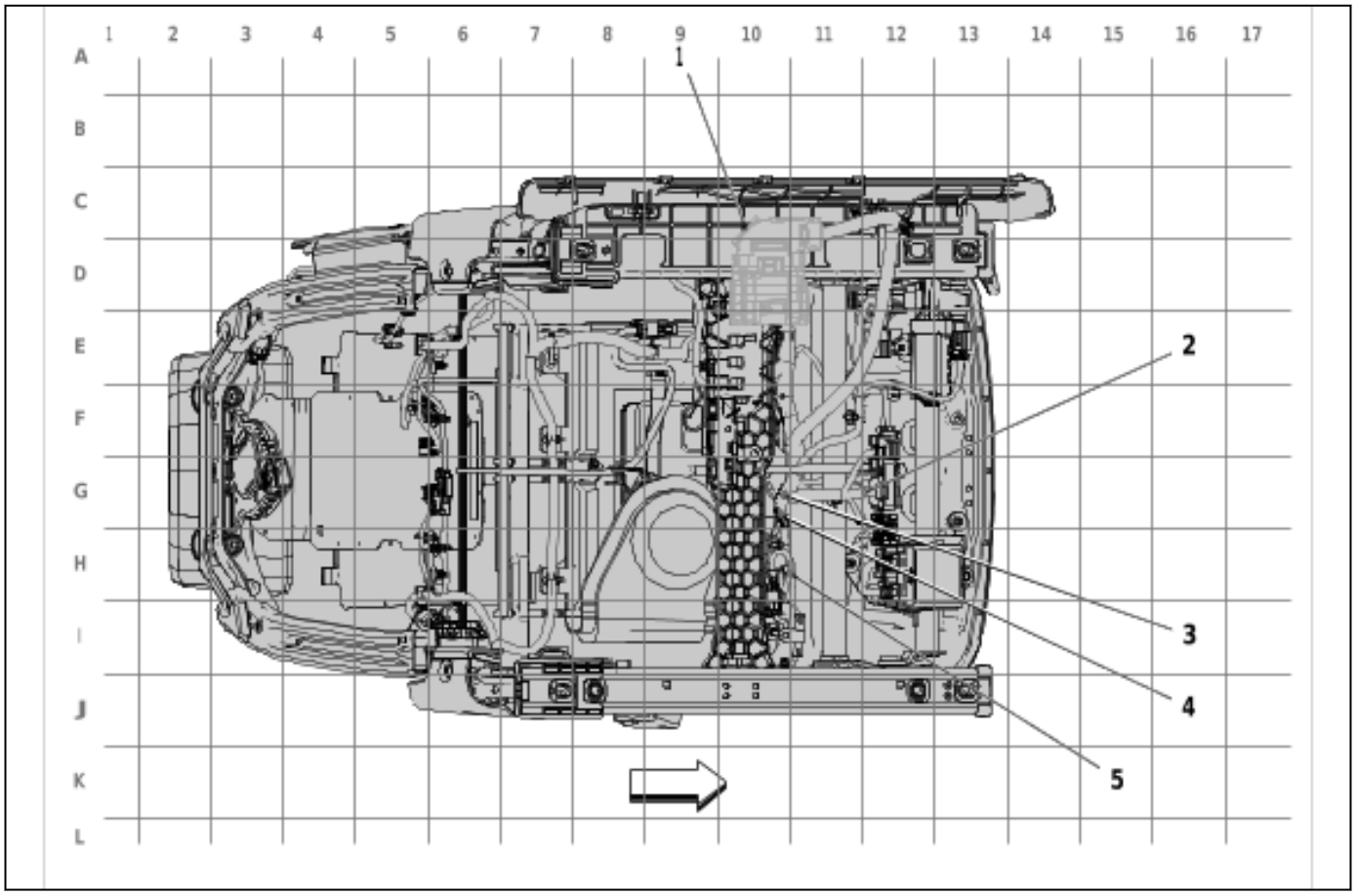
(5) J371 Front Seat Wiring Harness - Driver

(6) X331 Front Seat Wiring Harness - Driver to Body Wiring Harness

X331 Front Seat Wiring Harness - Driver to Body Wiring Harness

(7) J370 Front Seat Wiring Harness - Driver

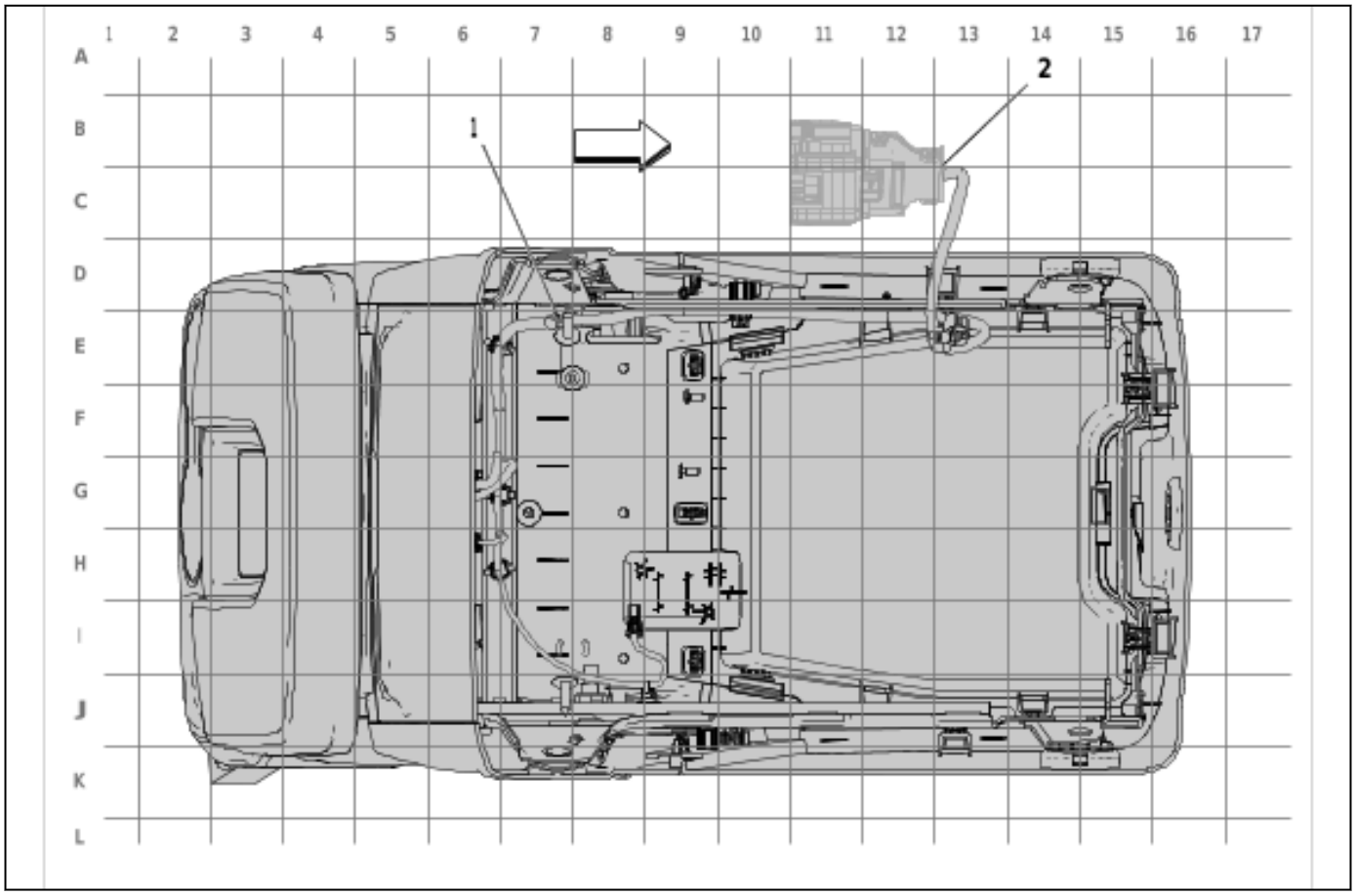
Passenger Seat Harness Routing



6398243

Items
(1) X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
X336 Front Seat Wiring Harness - Passenger to Body Wiring Harness
(2) J378 Front Seat Wiring Harness - Passenger
(3) J380 Front Seat Wiring Harness - Passenger
(4) J379 Front Seat Wiring Harness - Passenger
(5) J377 Front Seat Wiring Harness - Passenger

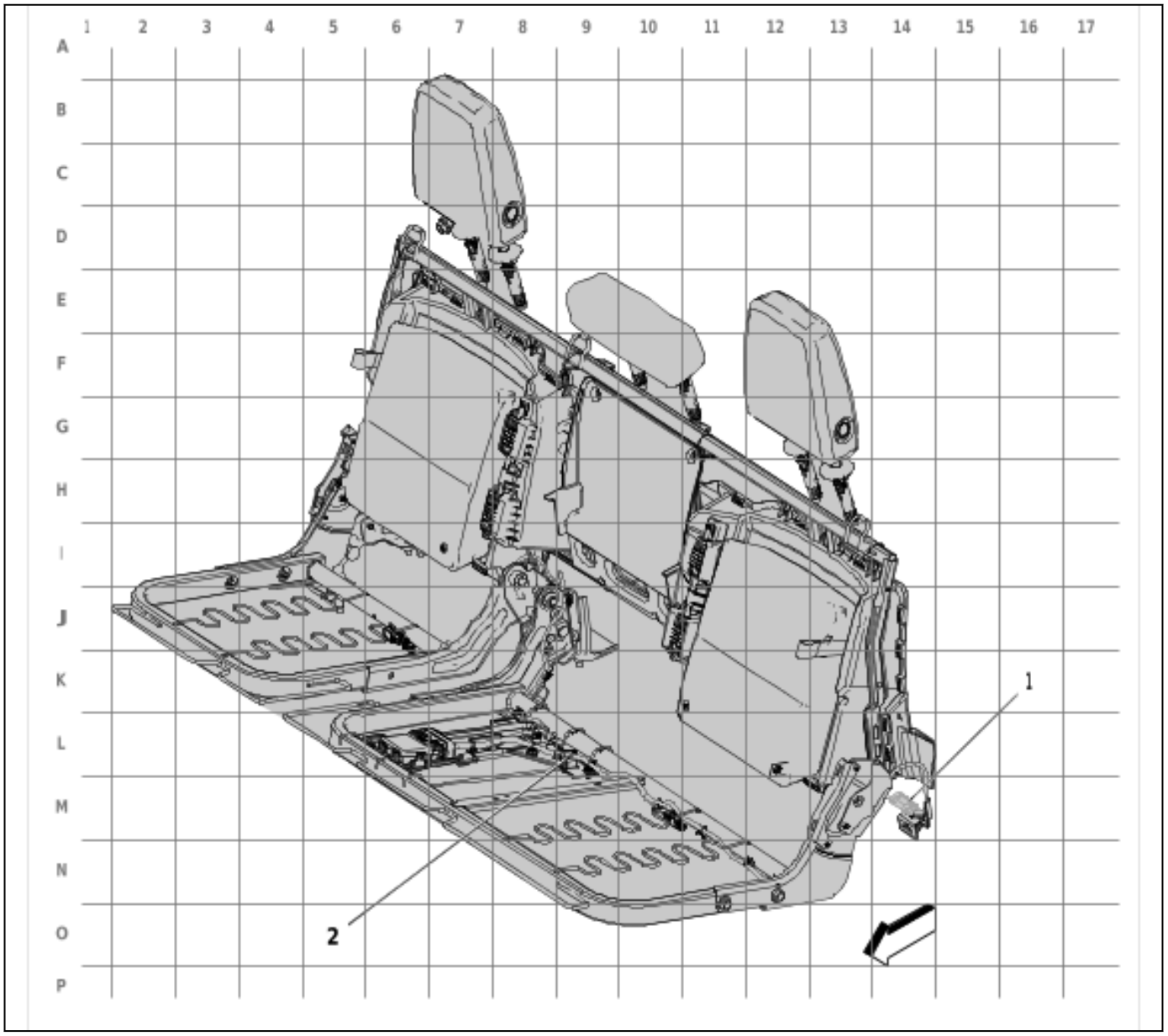
Front Center Seat Harness Routing



6398245

Items
(1) J369 Front Seat Wiring Harness - Center (AZ3)
(2) X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07) X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07) X227 Front Seat Wiring Harness - Center to Body Wiring Harness (AZ3)

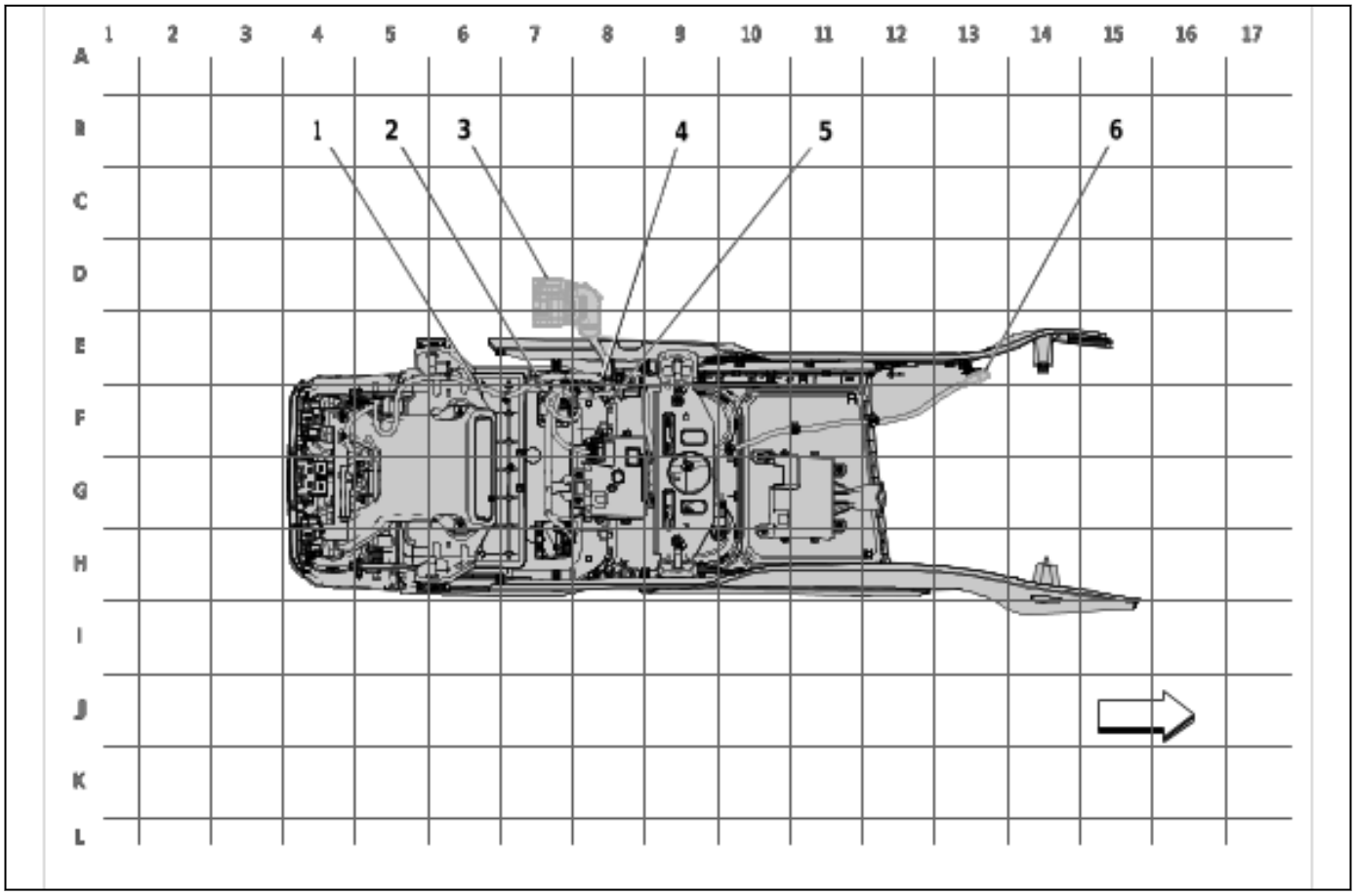
Rear Seat Harness Routing



6398246

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
(2) J388 Rear Seat Heater Control Wiring Harness

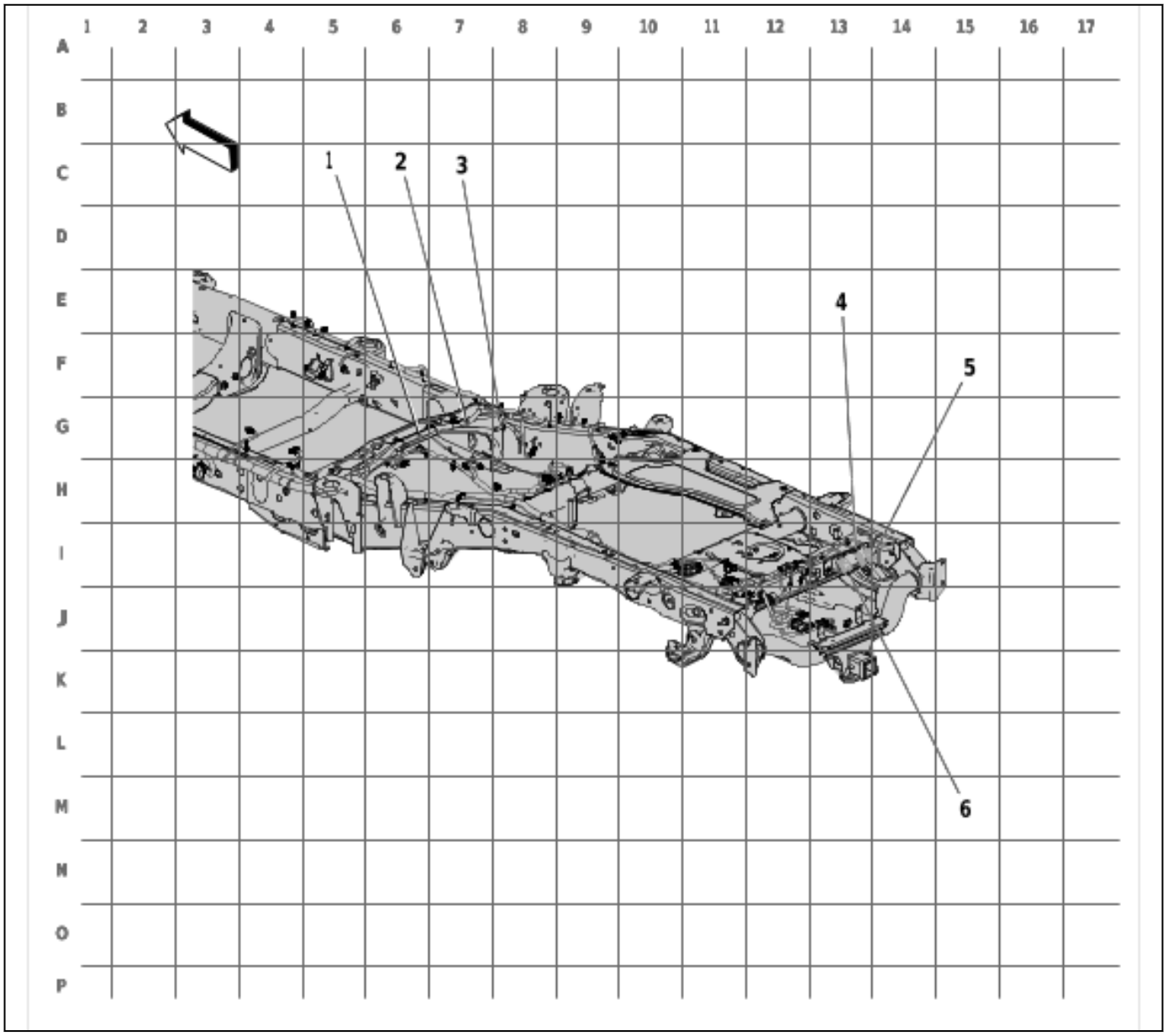
Center Console - Front Floor Console Wiring Harness



6215740

Items
(1) J339 Front Floor Console Wiring Harness
(2) J337 Front Floor Console Wiring Harness
(3) X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07) X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07) X227 Front Seat Wiring Harness - Center to Body Wiring Harness (AZ3)
(4) J336 Body Wiring Harness
(5) J338 Front Floor Console Wiring Harness
(6) X226 Front Floor Console Wiring Harness to Instrument Panel Wiring Harness (D07) X226 Front Floor Console Wiring Harness to Instrument Panel Wiring Harness

Vehicle Underbody - Chassis Wiring Harness - Rear - Double Cab/Crew Cab

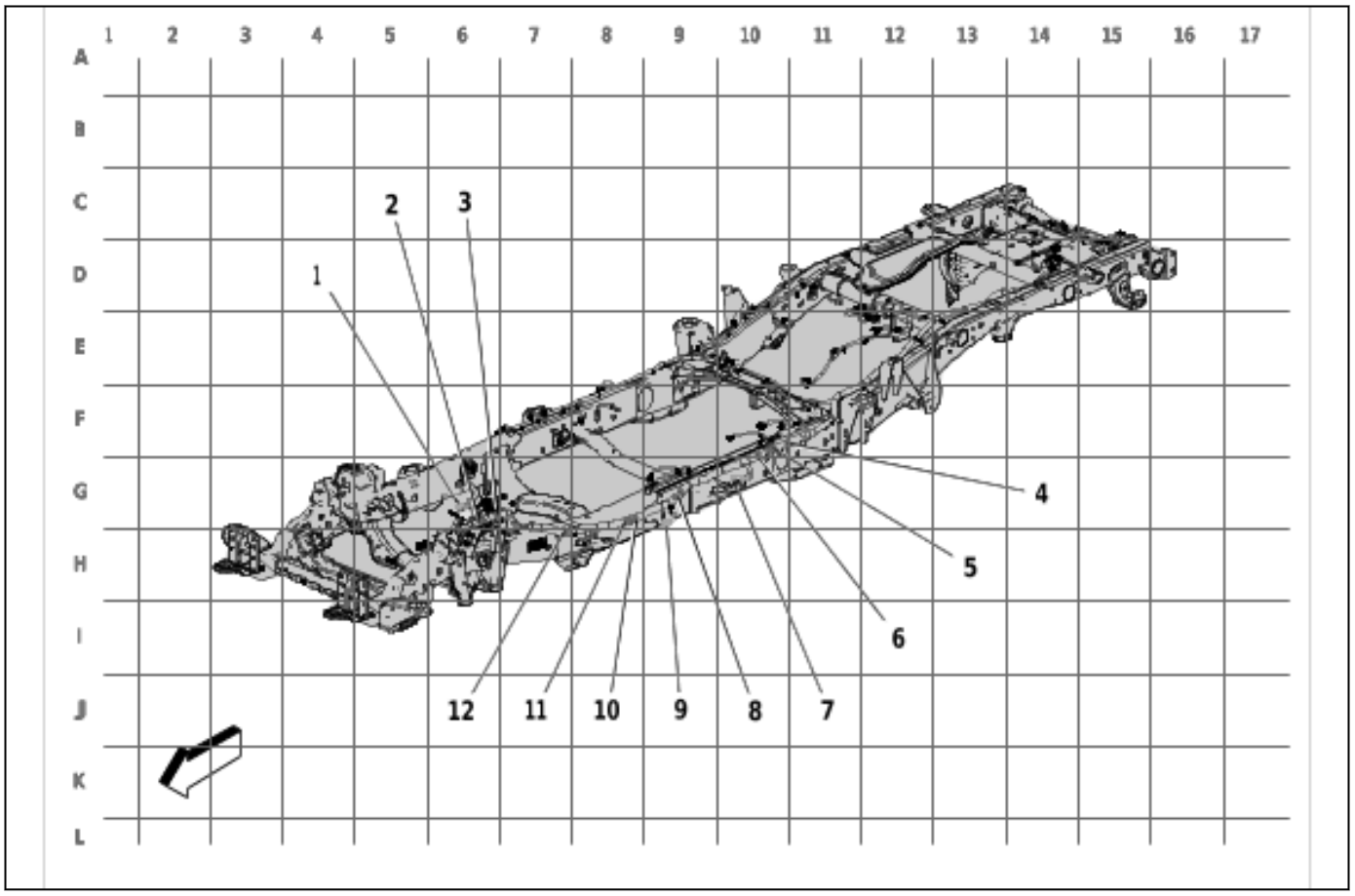


6215745

Items
(1) J342 Chassis Wiring Harness
(2) J341 Chassis Wiring Harness
(3) J344 Chassis Wiring Harness (L5P)
(4) X414 Chassis Rear Wiring Harness to Chassis Wiring Harness (KC9 / KCA)
X414 Chassis Rear Wiring Harness to Chassis Wiring Harness

Items
(5) X920A Tail Lamp Wiring Harness - Right to Chassis Wiring Harness
X920A Rear Lamp Wiring Harness to Chassis Wiring Harness - Chassis Cab X920A Rear Lamp Wiring Harness to Chassis Wiring Harness - Pickup
(6) X950 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness
X950 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness

Vehicle Underbody - Chassis Wiring Harness - Left - Double Cab/Crew Cab

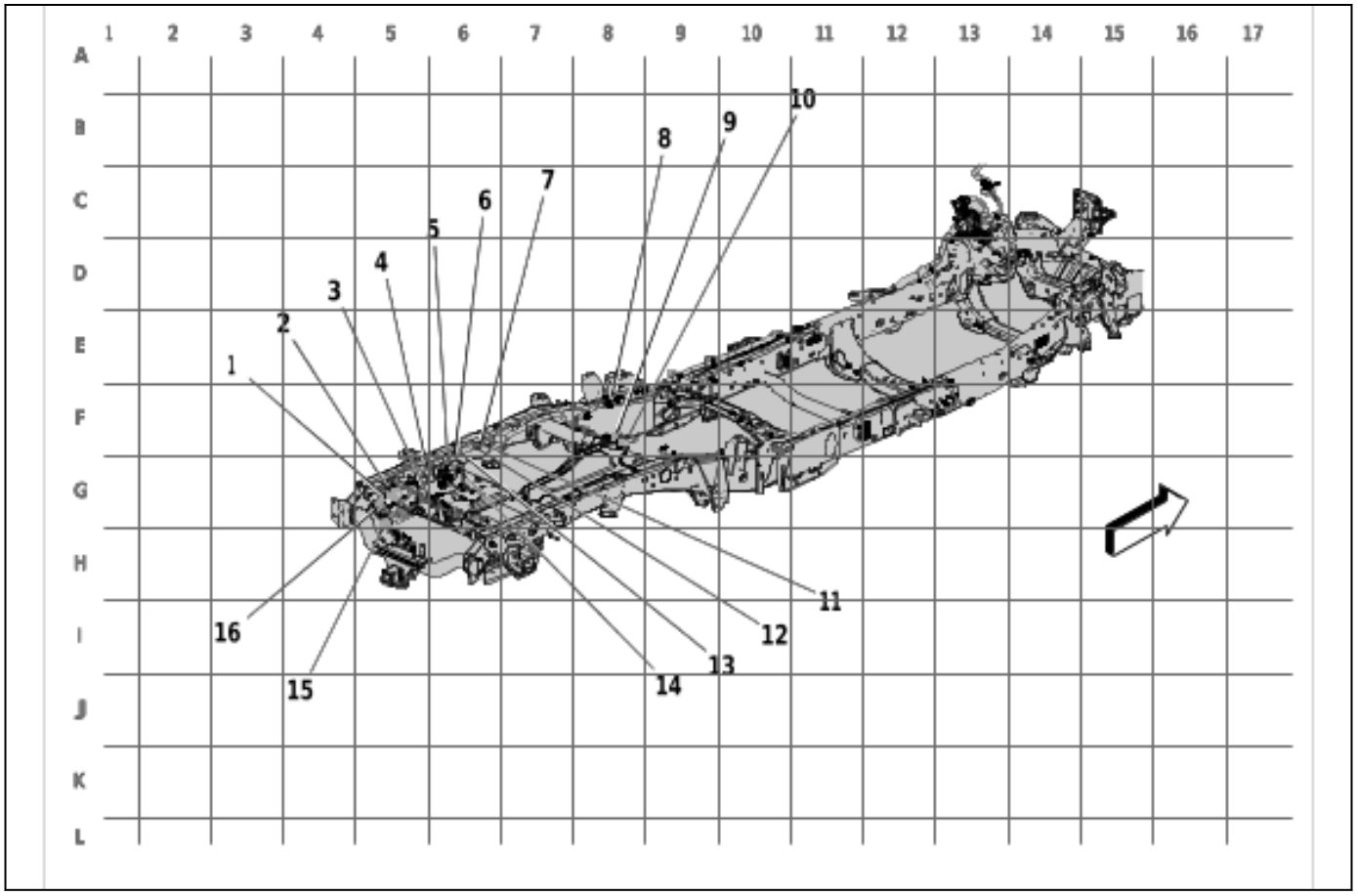


6215746

Items
(1) X426 Chassis Wiring Harness to Chassis Wiring Harness
X426 Battery Positive Cable to Chassis Wiring Harness (-K4Z) X426 Battery Positive Cable to Chassis Wiring Harness (K4Z)
(2) J352 Chassis Wiring Harness
(3) J353 Chassis Wiring Harness
(4) J345 Chassis Wiring Harness
(5) J356 Chassis Wiring Harness
(6) J355 Chassis Wiring Harness

Items
(7) X404 Emission Reduction Fluid Tank Reservoir Wire Harness to Chassis Wiring Harness (L5P)
X404 Chassis Wiring Harness to Emission Reduction Fluid Tank Reservoir Wire Harness
(8) J350 Chassis Wiring Harness (L5P)
(9) X412 Assist Step Motor Jumper Wiring Harness - Left to Chassis Wiring Harness (BRS)
X412 Assist Step Motor Jumper Wiring Harness - Left to Chassis Wiring Harness (BRS)
(10) J351 Chassis Wiring Harness
(11) J354 Chassis Wiring Harness (FHS)
(12) J340 Chassis Wiring Harness

Vehicle Underbody - Chassis Wiring Harness - Right - Double Cab/Crew Cab

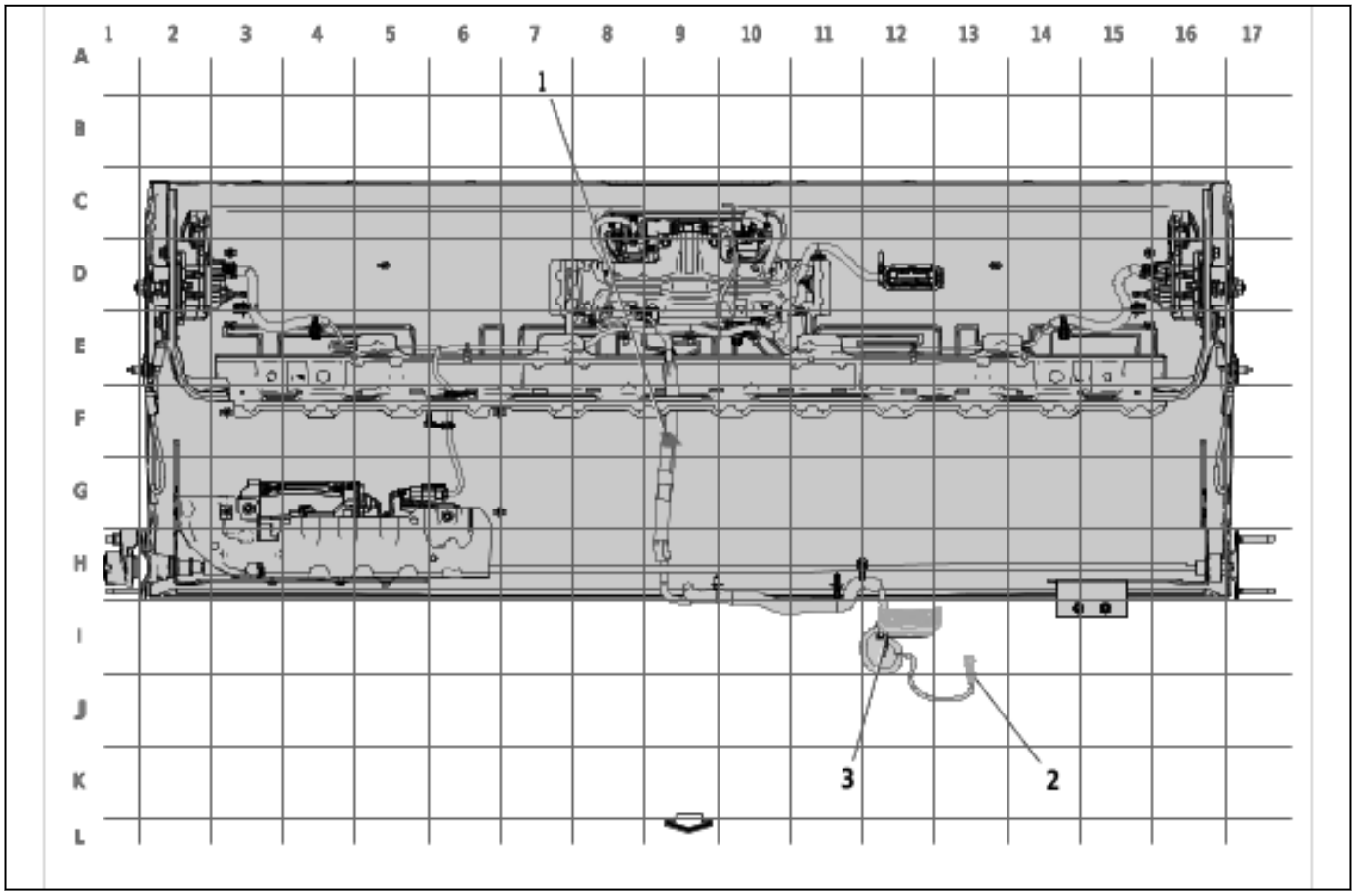


6215747

Items
(1) X919 Endgate Wiring Harness to Chassis Wiring Harness
X919 Endgate Wiring Harness to Chassis Wiring Harness
(2) X918 Endgate Wiring Harness to Chassis Wiring Harness
X918 Endgate Wiring Harness to Chassis Wiring Harness
(3) J348 Chassis Wiring Harness
(4) J362 Chassis Wiring Harness
(5) J361 Chassis Wiring Harness

Items
(6) J360 Chassis Wiring Harness
(7) J345 Chassis Wiring Harness
(8) J347 Chassis Wiring Harness (L5P)
(9) X420B Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness X420B Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness (JBP - G94) X420B Chassis Wiring Harness to Chassis Rear Wiring Harness Extension Harness (JBP & G94)
(10) X420A Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness X420A Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness
(11) J358 Chassis Wiring Harness (BRS)
(12) J357 Chassis Wiring Harness
(13) J359 Chassis Wiring Harness
(14) J349 Chassis Wiring Harness
(15) X480 Chassis Wiring Harness to Trailer Rear Wiring Harness X480 Chassis Wiring Harness to Trailer Rear Wiring Harness
(16) X910A Tail Lamp Wiring Harness - Left to Chassis Wiring Harness X910A Rear Body Structure Stop Lamp to Chassis Wiring Harness - Pickup X910A Rear Body Structure to Chassis Wiring Harness - Chassis Cab

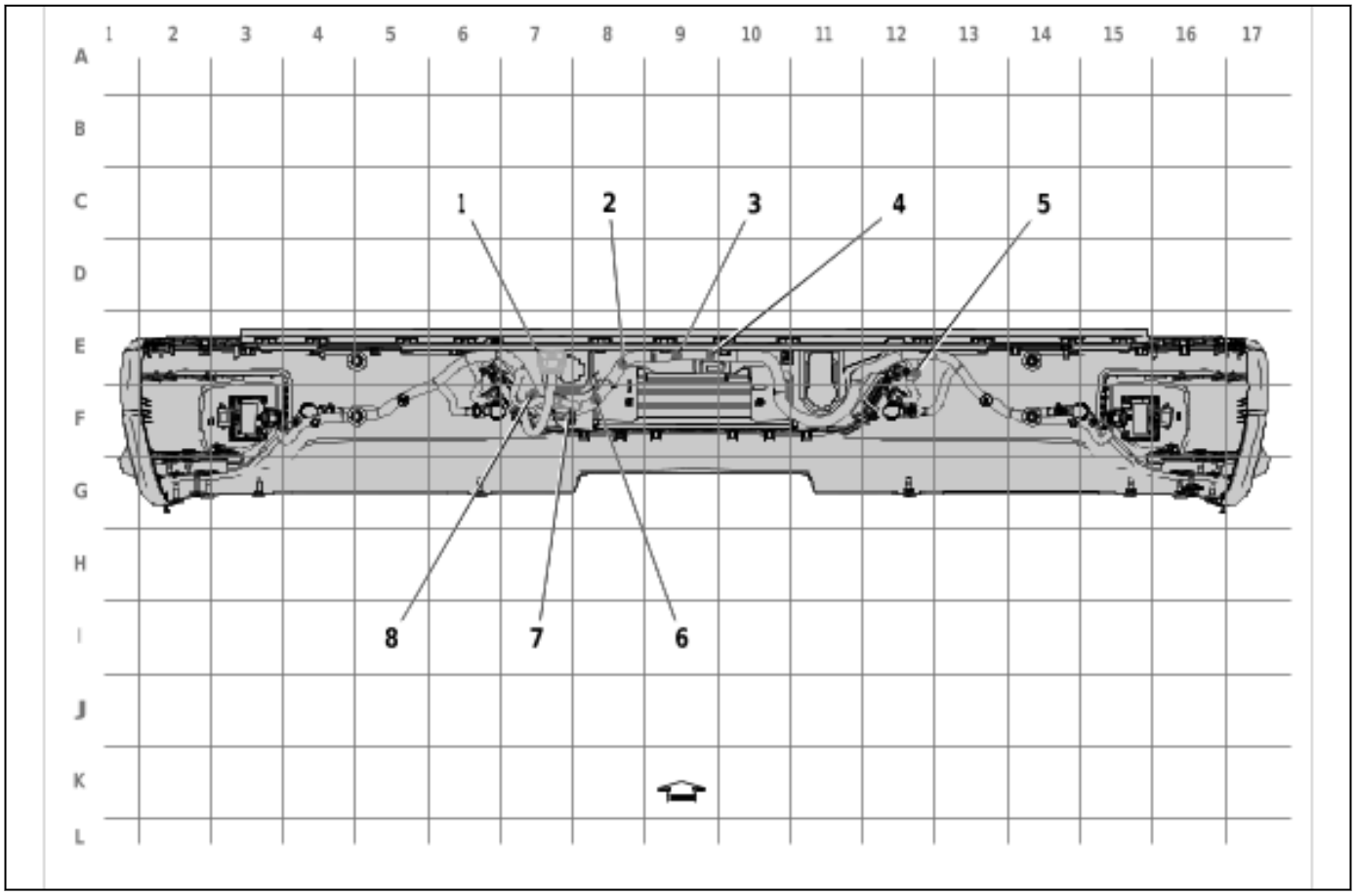
Rear of Vehicle - Endgate Wiring Harness



6215751

Items
(1) J900 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 - Rear Object Alarm Sensor Harness



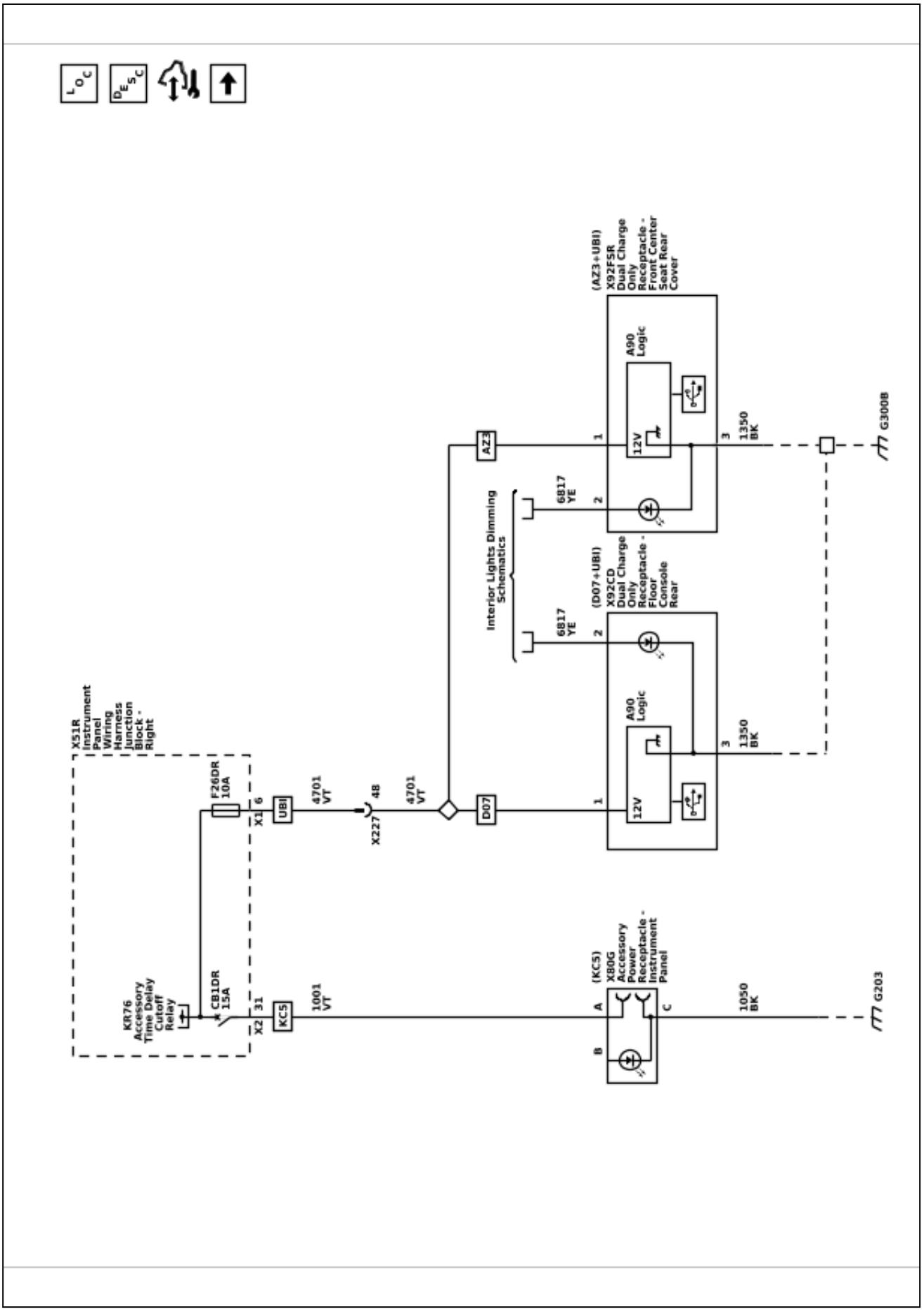
6215752

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) J907 Rear Object Alarm Sensor Wiring Harness
(3) J906 Rear Object Alarm Sensor Wiring Harness
(4) J905 Rear Object Alarm Sensor Wiring Harness
(5) J904 Rear Object Alarm Sensor Wiring Harness
(6) J908 Rear Object Alarm Sensor Wiring Harness
(7) R6A Terminating Resistor - High Speed Bus (UKL / (-UKC - UKV))
R6A Terminating Resistor - High Speed Bus - (UKC / UKV)
(8) J909 Rear Object Alarm Sensor Wiring Harness

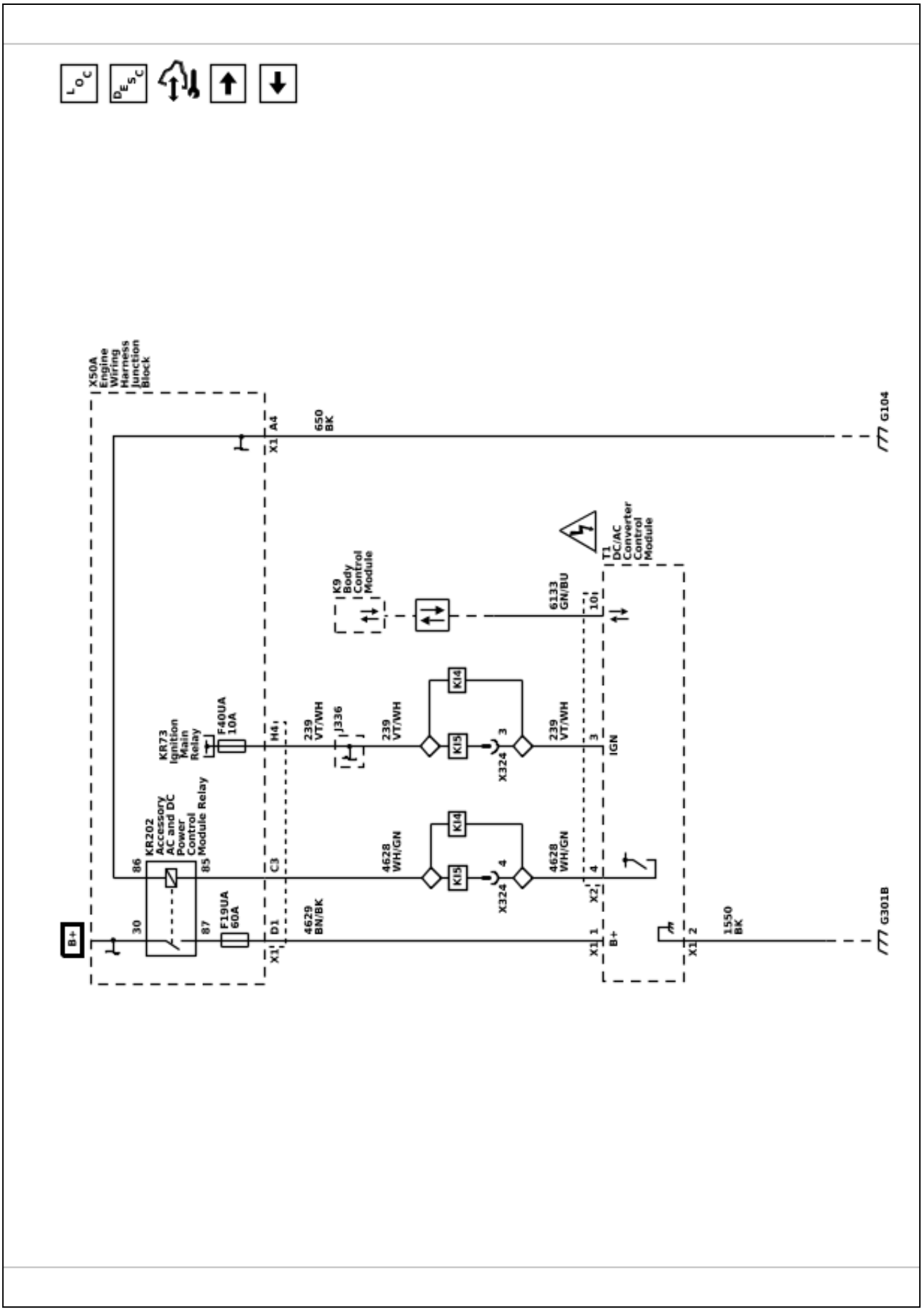
Power Outlets

Schematic and Routing Diagrams

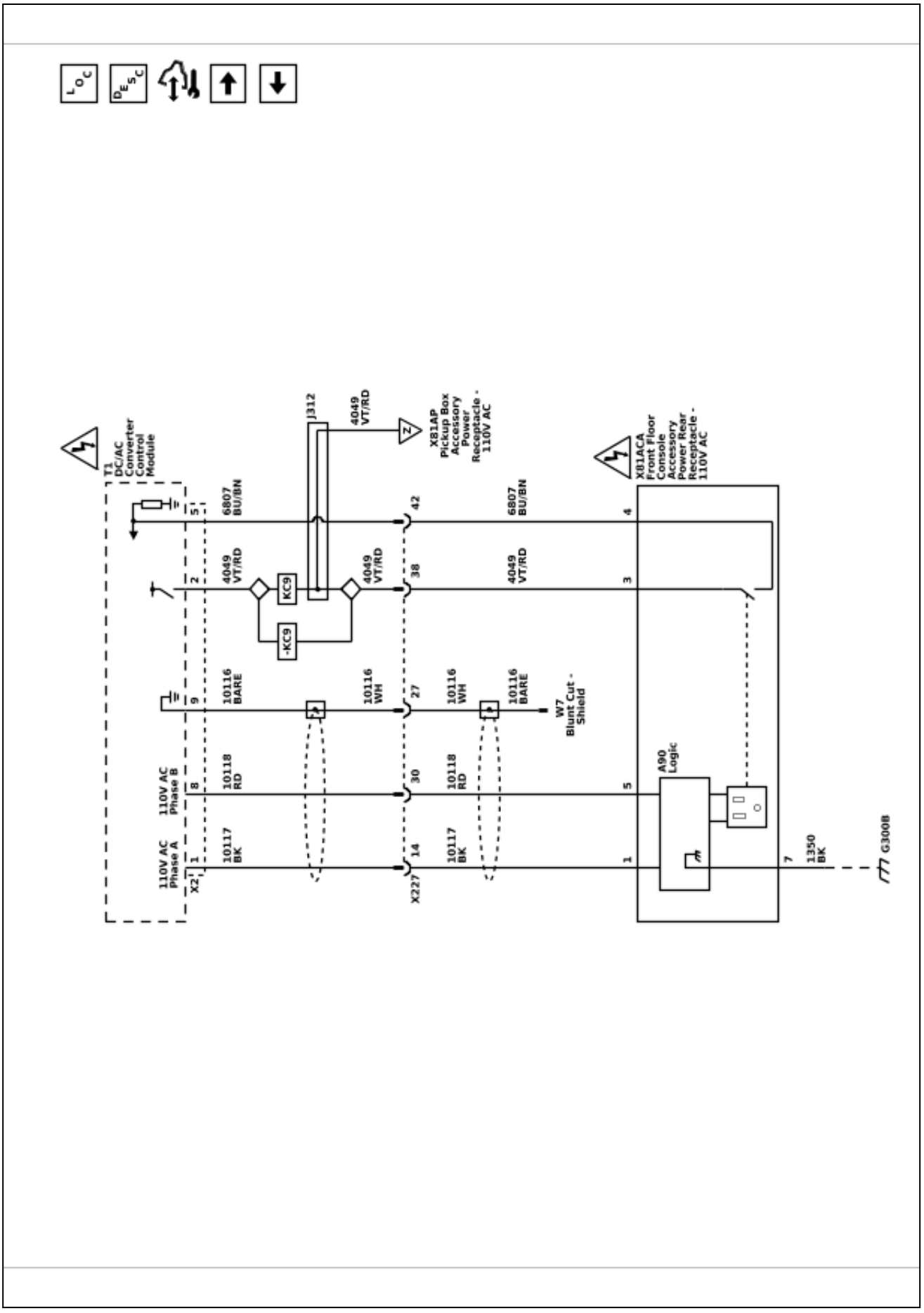
Cigar Lighter/Power Outlet Schematics (Power and Charge Receptacles)



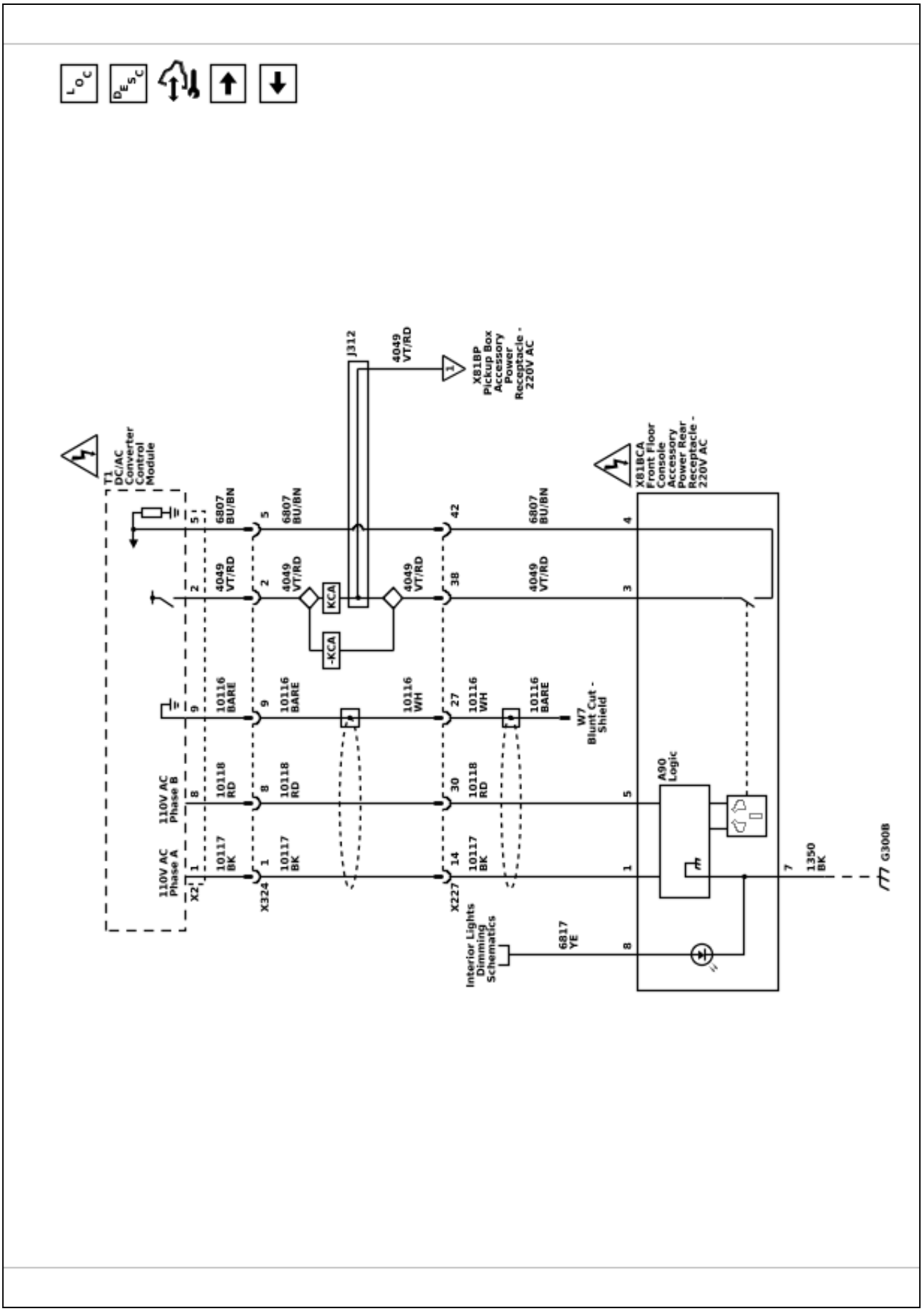
Cigar Lighter/Power Outlet Schematics (Inverter Module Power, Ground, and Serial Data)



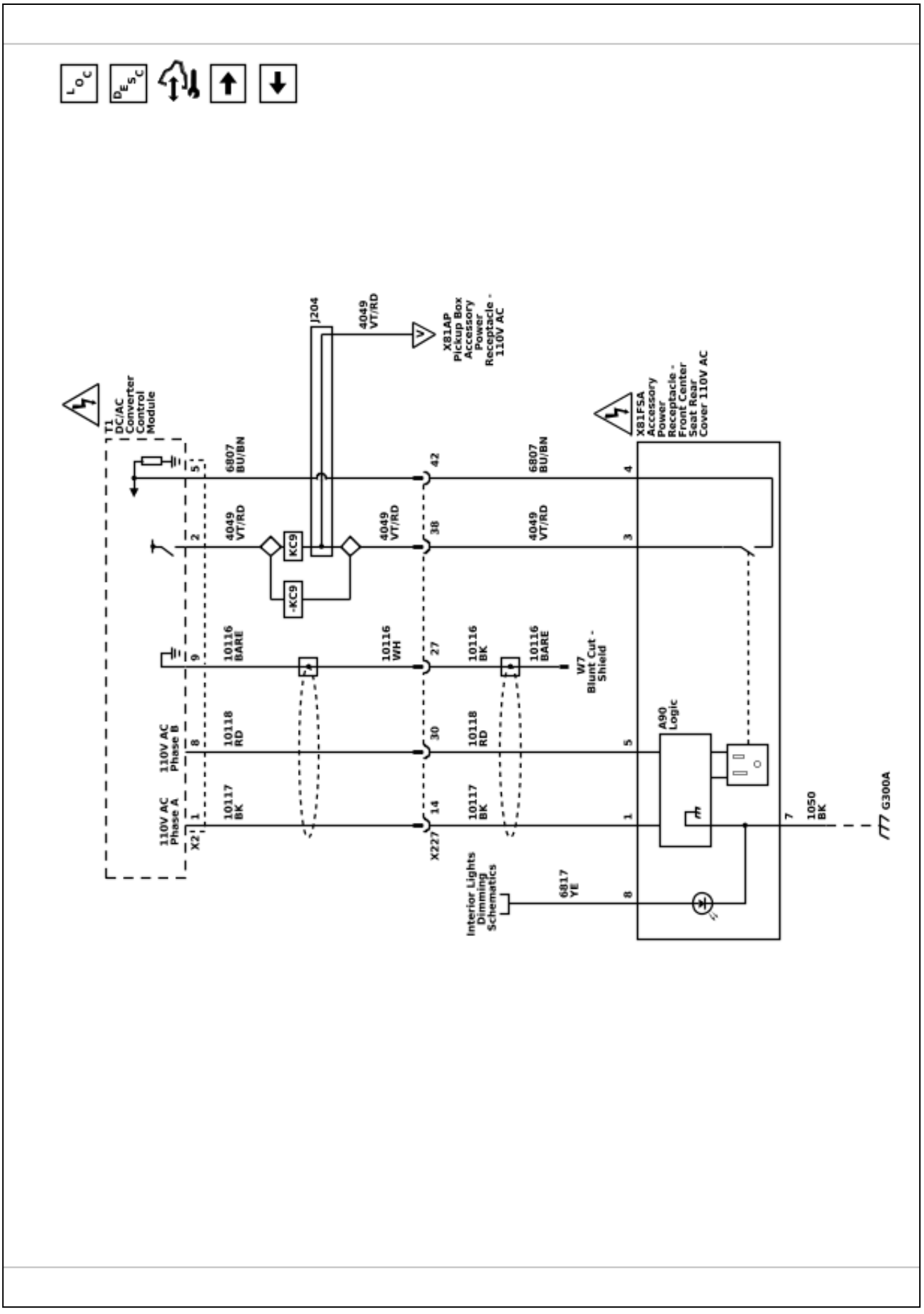
Cigar Lighter/Power Outlet Schematics (110V AC Accessory Power Rear Receptacle - Front Floor Console)



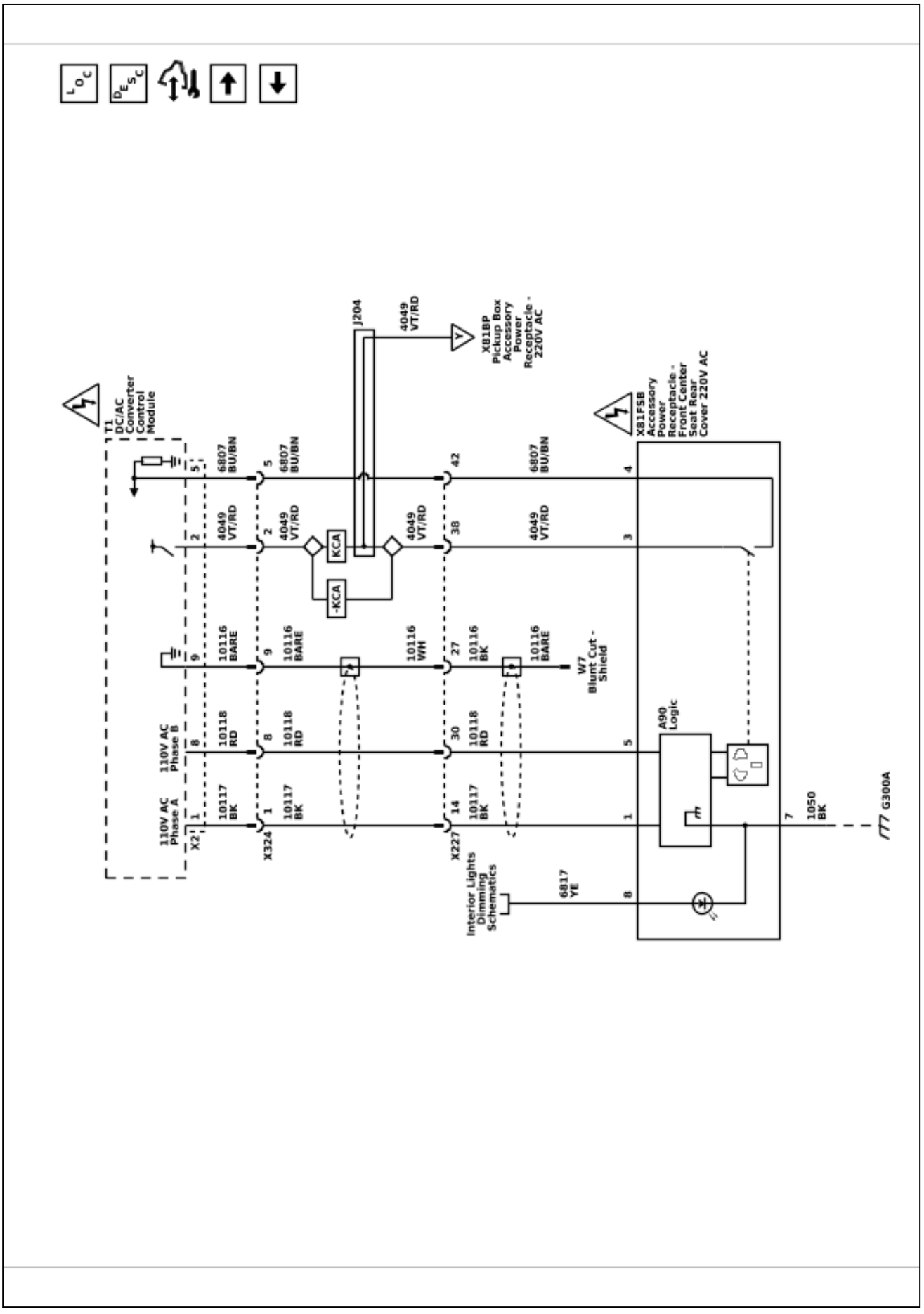
Cigar Lighter/Power Outlet Schematics (220V AC Accessory Power Rear Receptacle - Front Floor Console)



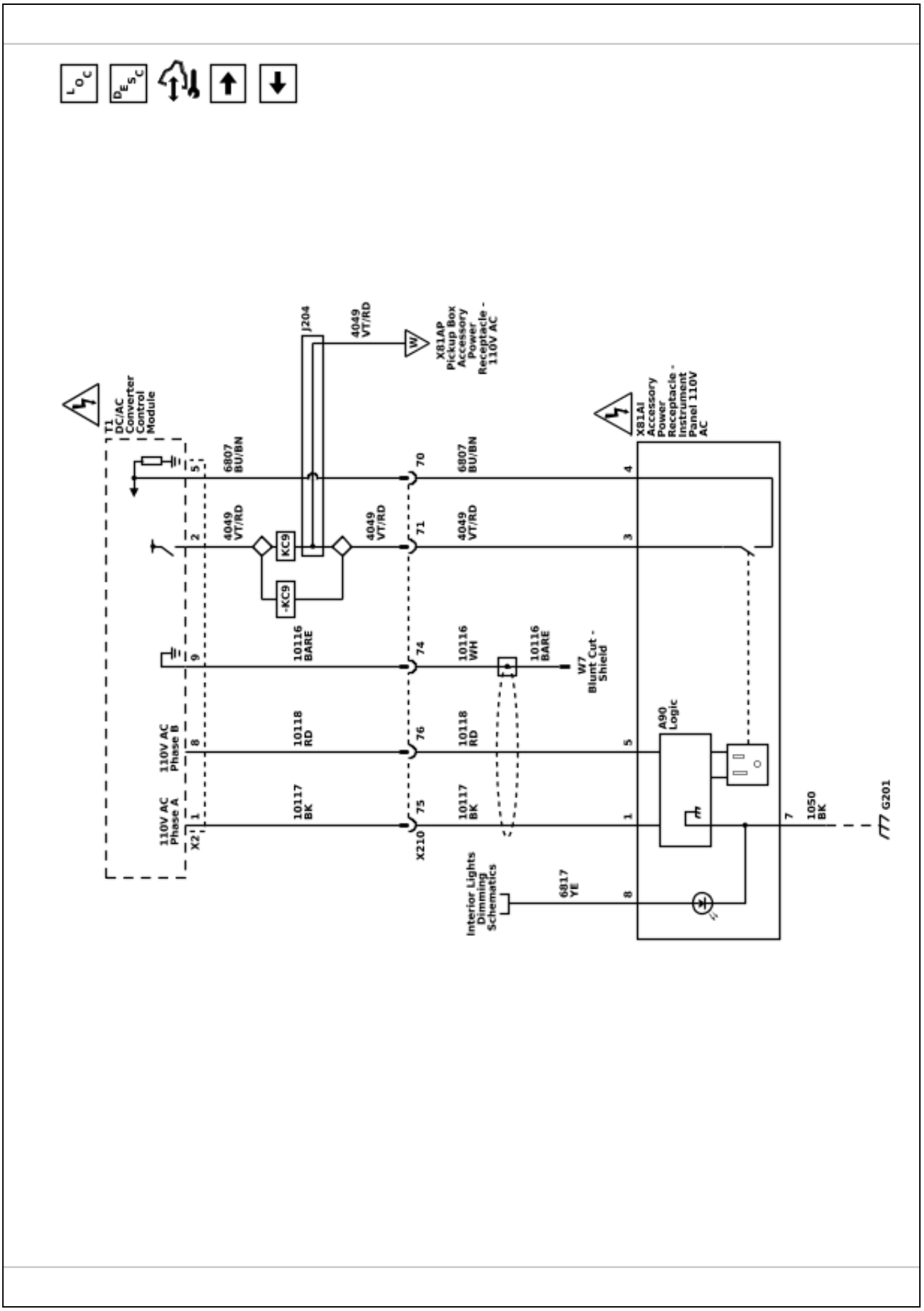
Cigar Lighter/Power Outlet Schematics (110V AC Accessory Power Receptacle - Front Center Seat Rear)



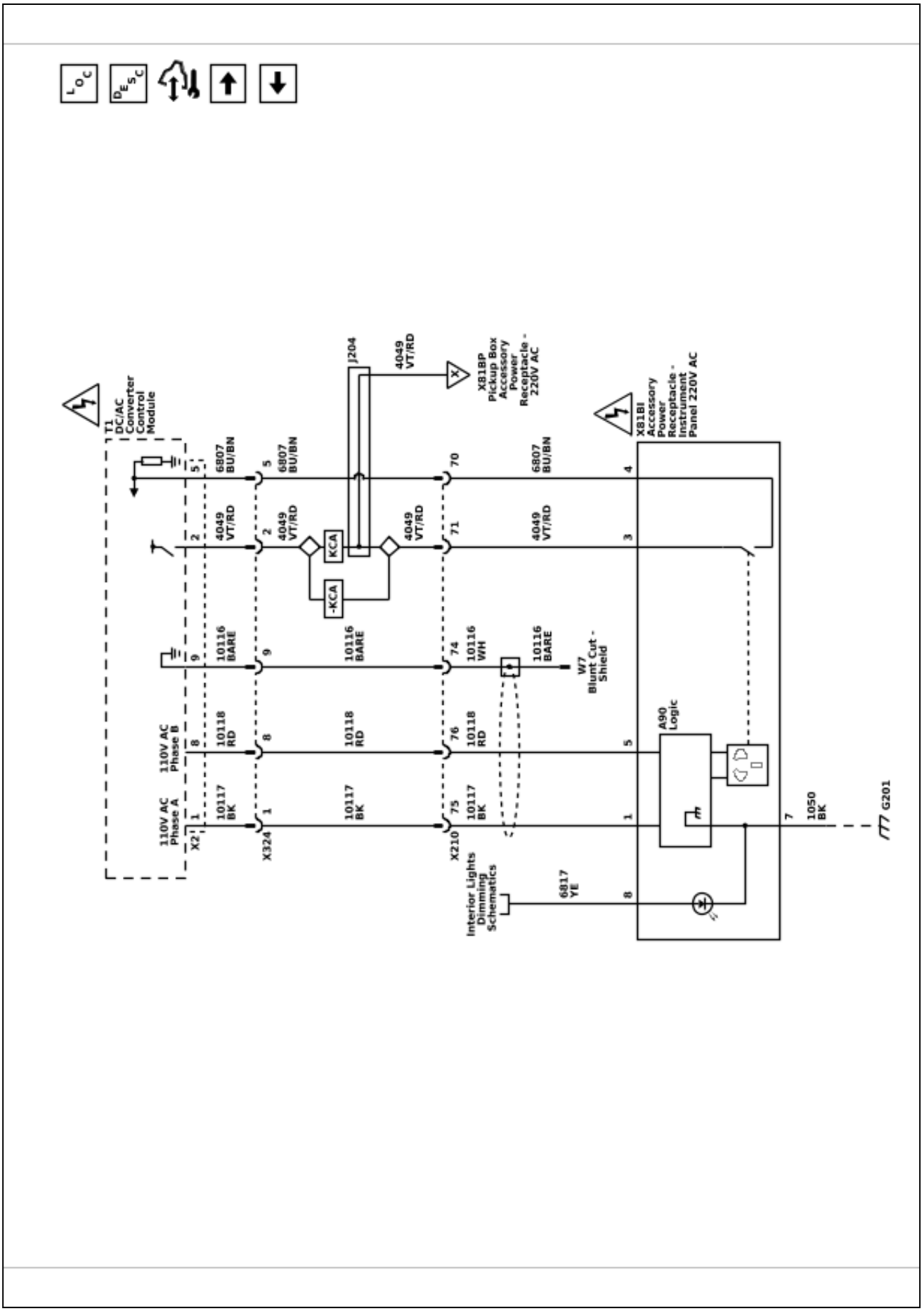
Cigar Lighter/Power Outlet Schematics (220V AC Accessory Power Receptacle - Front Center Seat Rear (KI4))



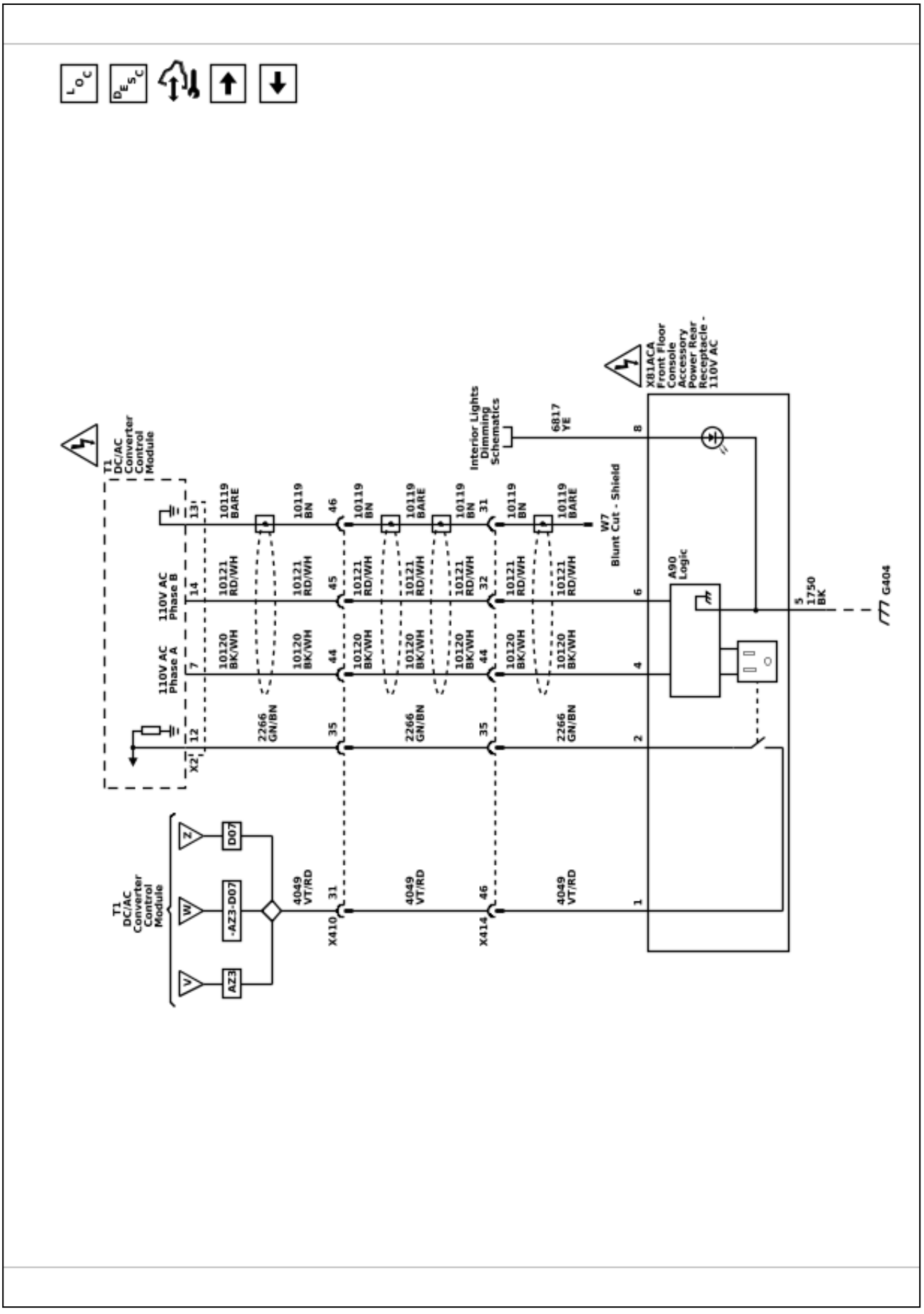
Cigar Lighter/Power Outlet Schematics (110V AC Accessory Power Receptacle - Instrument Panel (KI5))



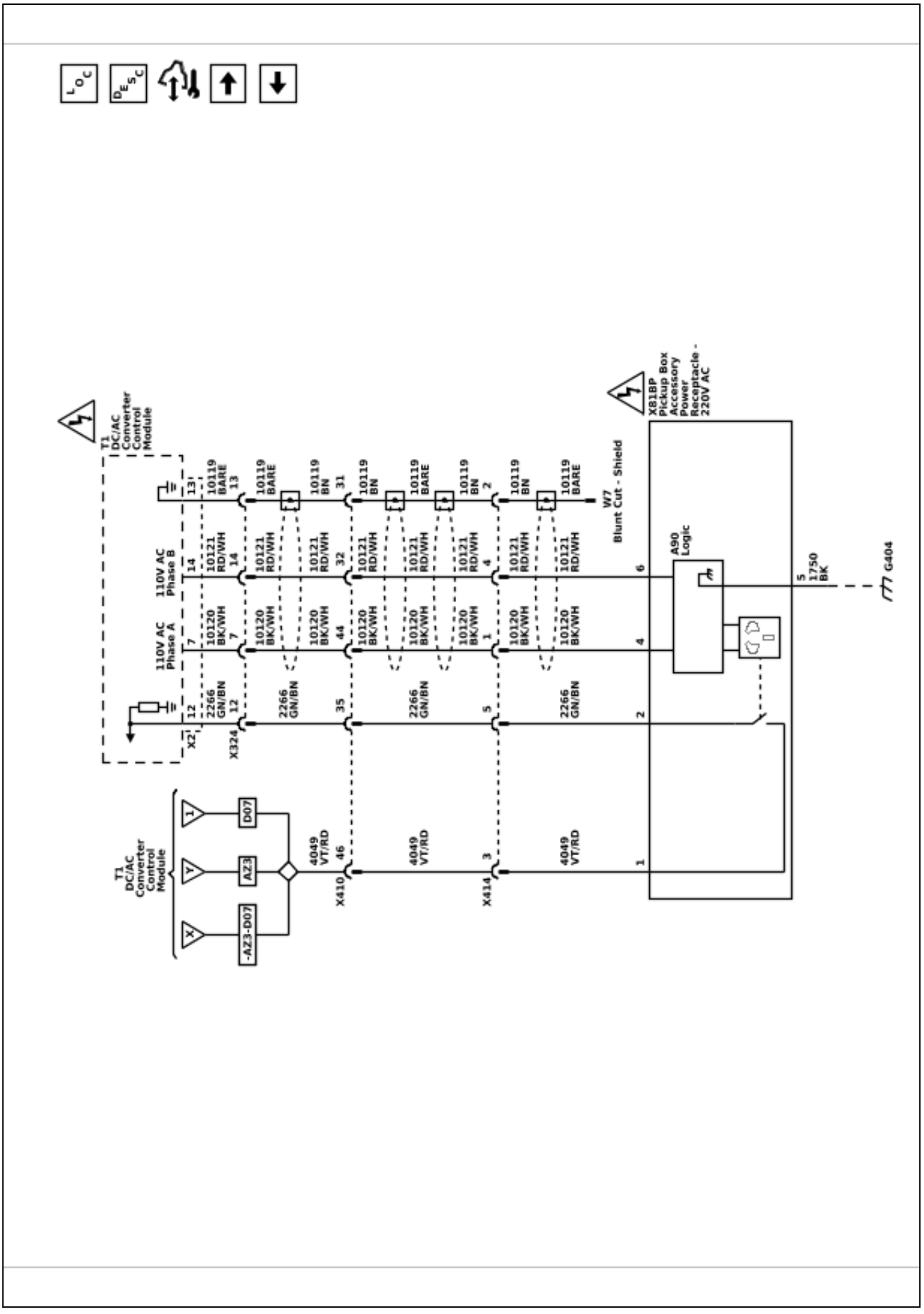
Cigar Lighter/Power Outlet Schematics (220V AC Accessory Power Receptacle - Instrument Panel (KC9 / KCA))



Cigar Lighter/Power Outlet Schematics (110V AC Pickup Box Accessory Power Receptacle (KC9))

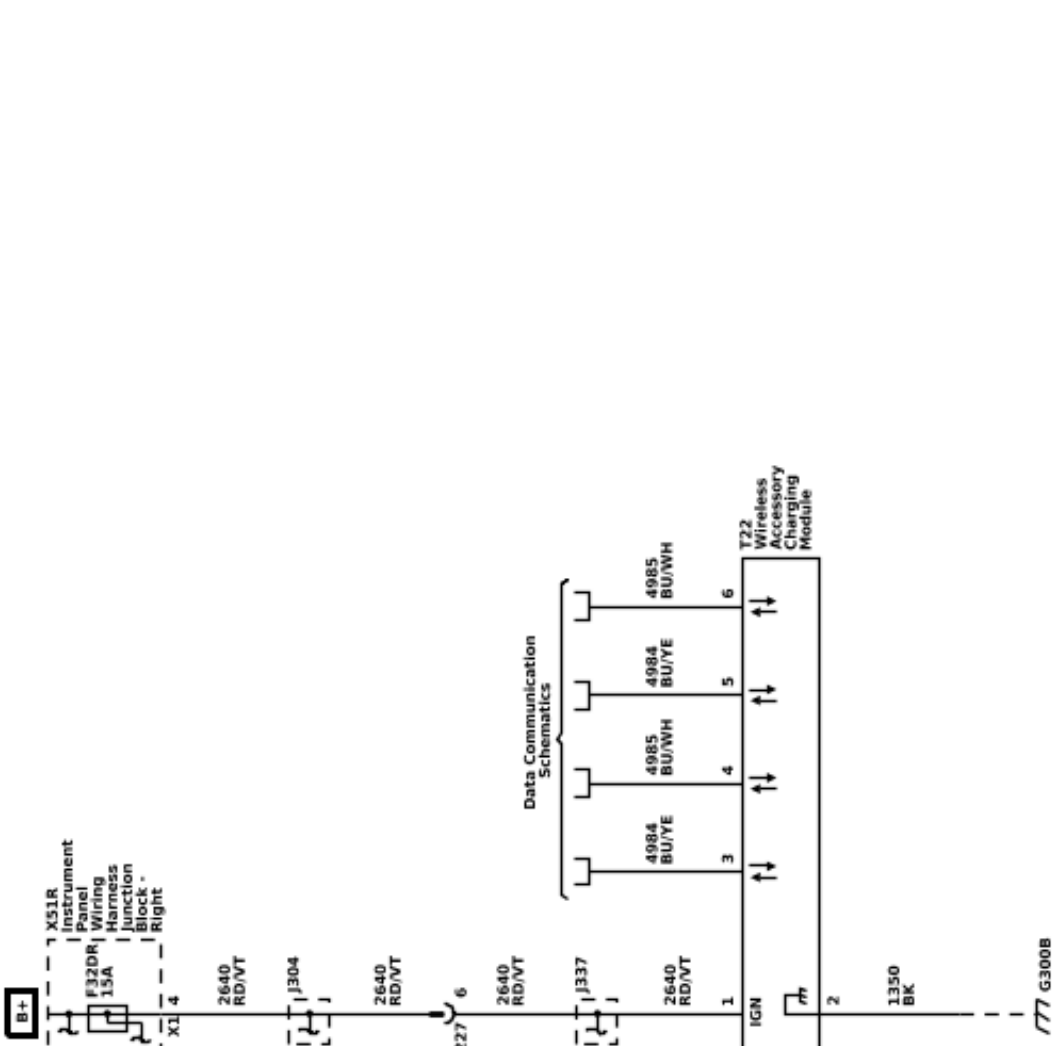


Cigar Lighter/Power Outlet Schematics (220V AC Pickup Box Accessory Power Receptacle (KCA))



6530374

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

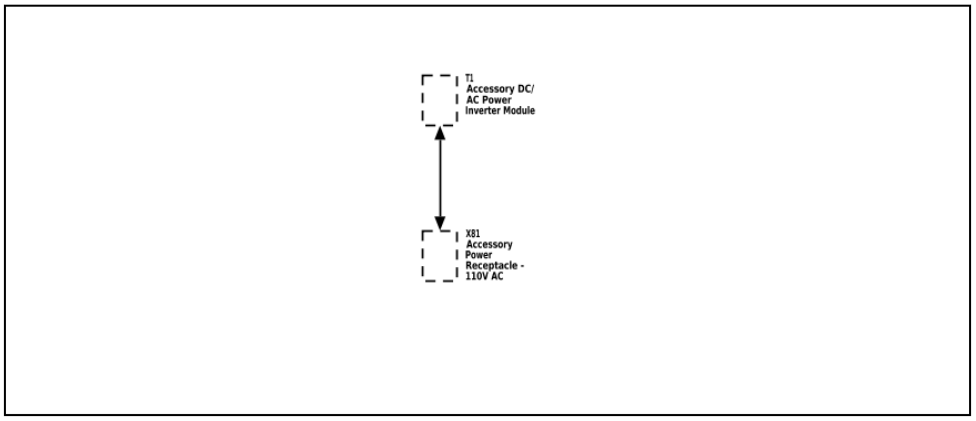
12 Volt Power Outlet Receptacle Description and Operation

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 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

Power Outlets Block Diagram



3403851

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 400 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.

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

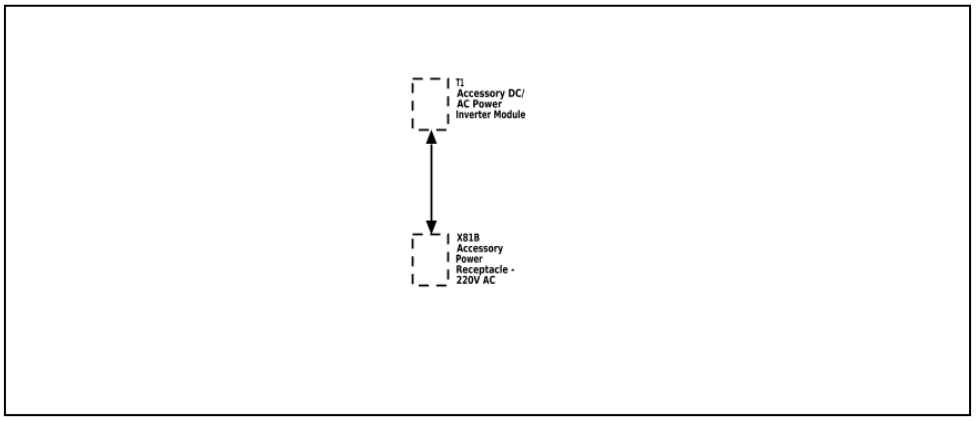
The accessory DC/AC power inverter module will turn OFF if the current in the 110 V circuit is greater than 3.8 A for 1 s , or 2.5 A for 10 s . The module will turn ON again, when the AC powered device is unplugged from the outlet, and then plugged into the outlet after a 3 s delay.

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.

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 400 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.

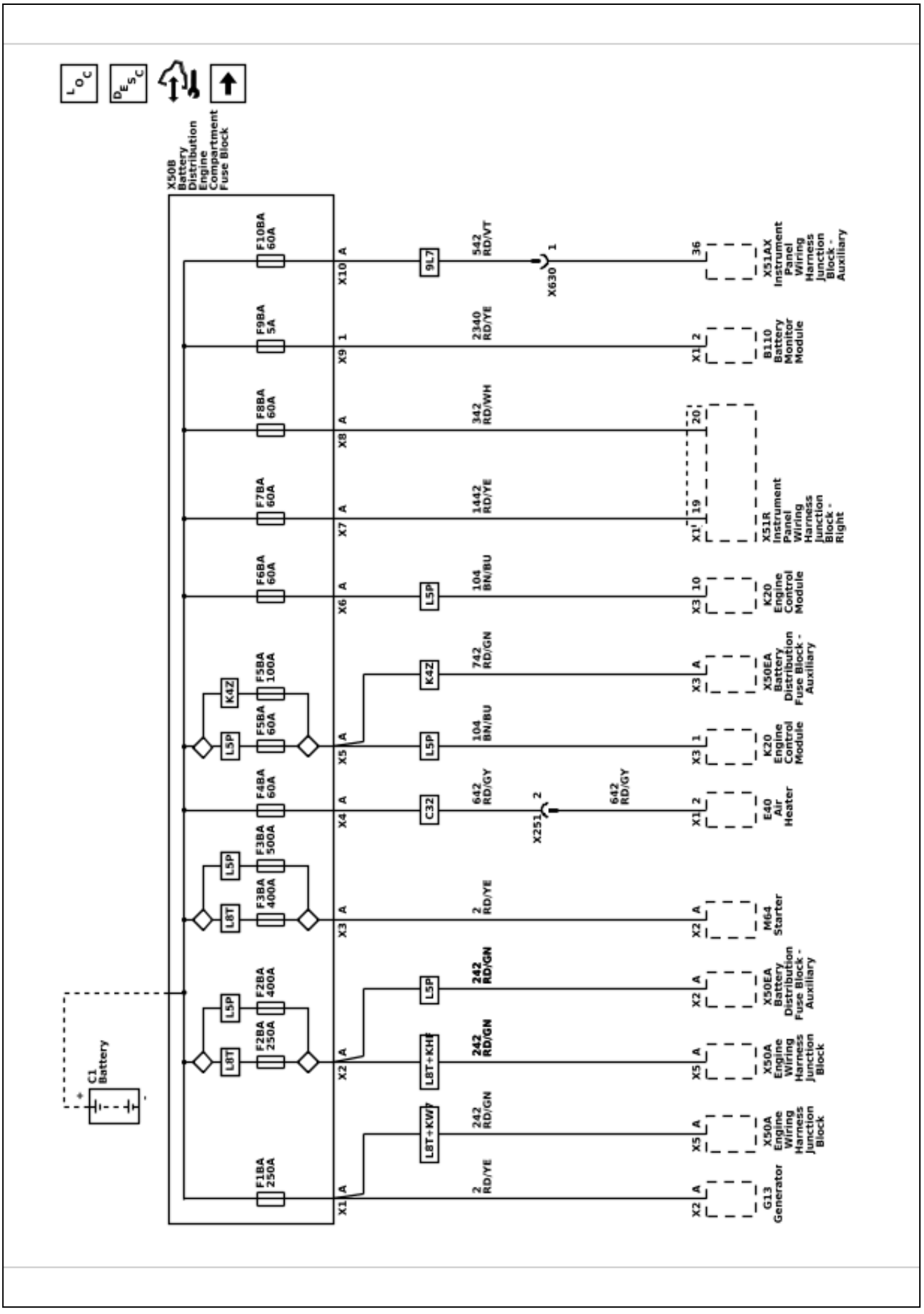
USB Receptacle Description and Operation (USS)

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.

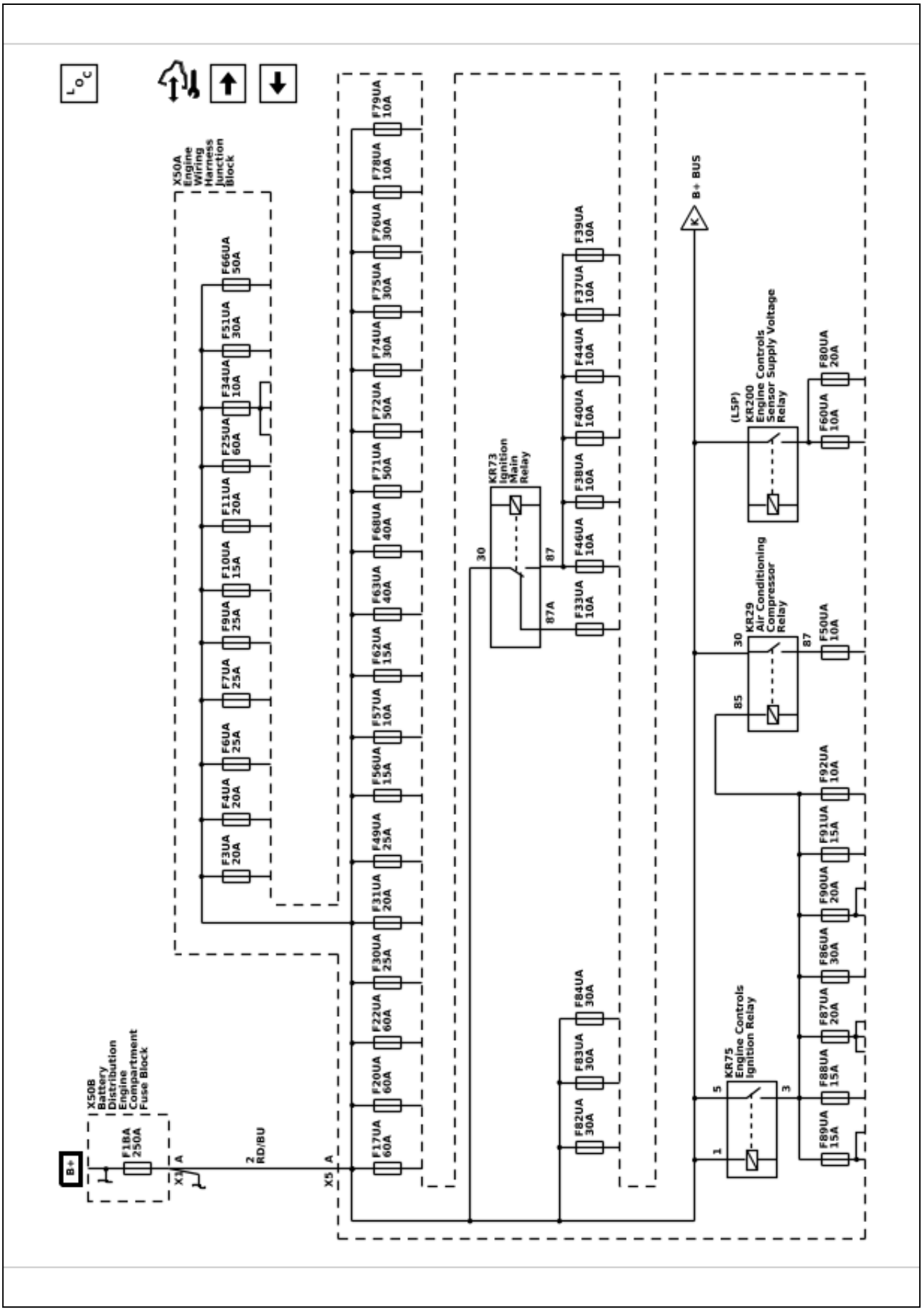
Wiring Systems and Power Management

Schematic and Routing Diagrams

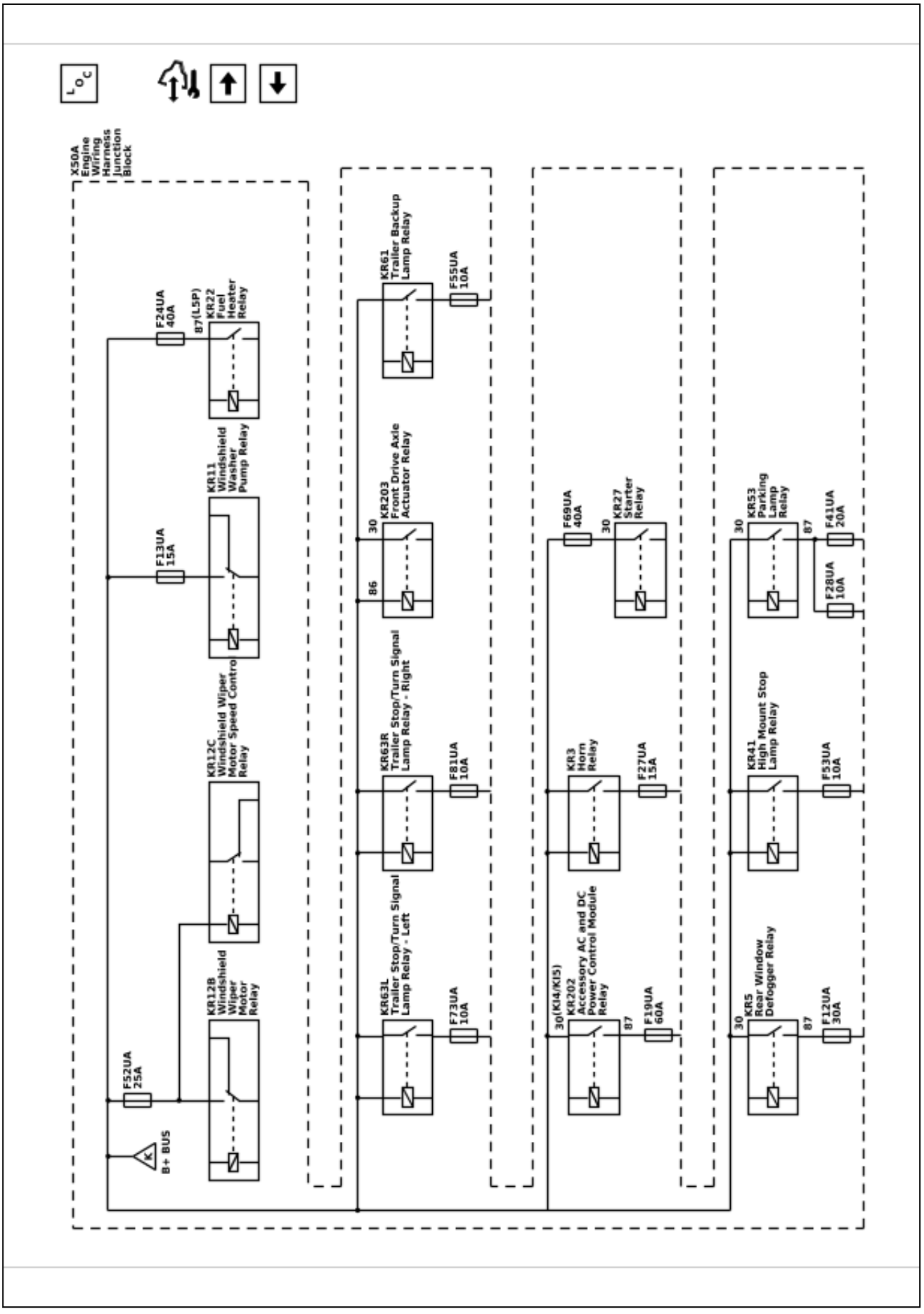
Power Distribution Schematics (Battery Distribution Engine Compartment Fuse Block)



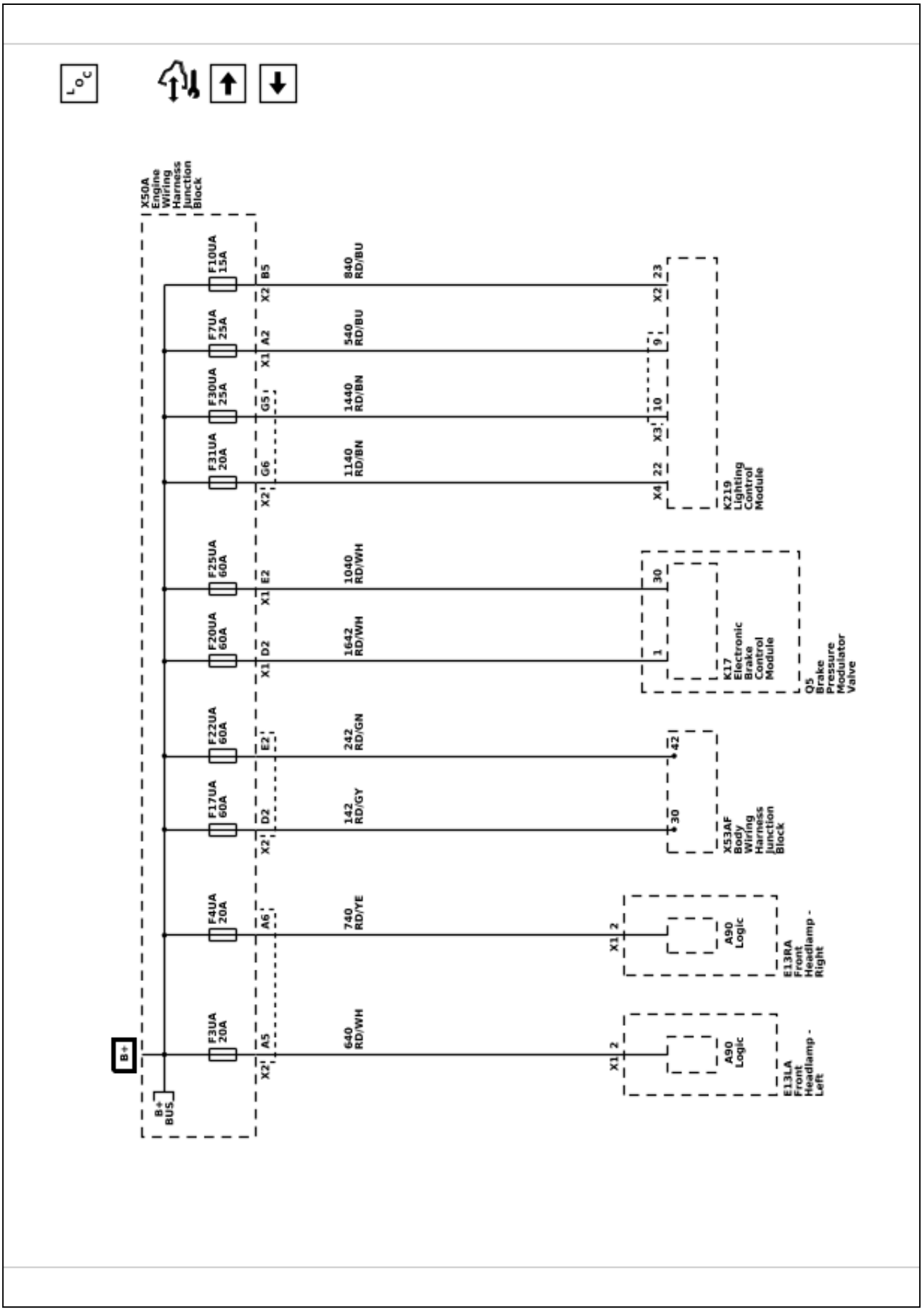
Power Distribution Schematics (Engine Wiring Harness Junction Block - B+ Bus - 1 of 2 (K4B))



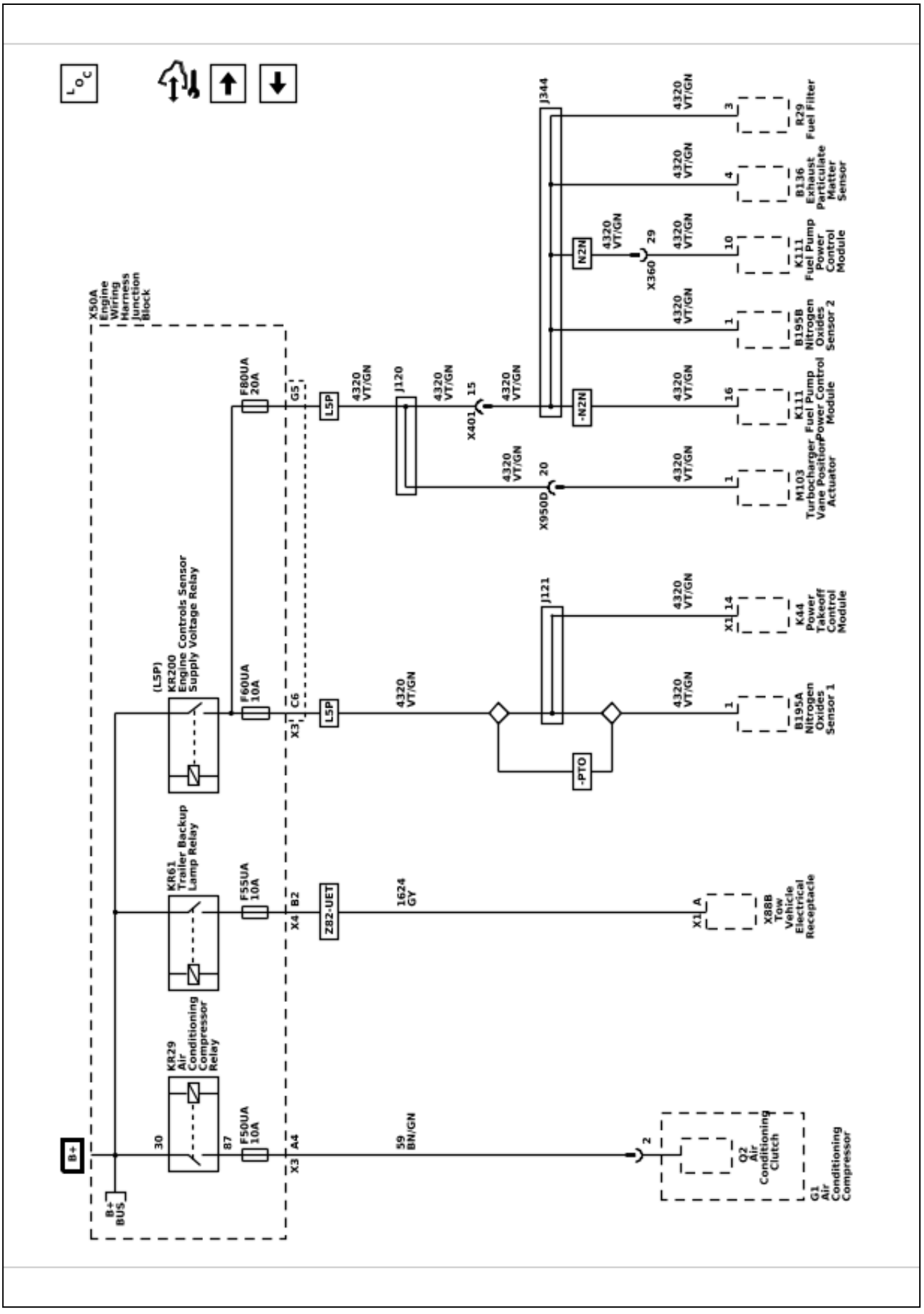
Power Distribution Schematics (Engine Wiring Harness Junction Block - B+ Bus - 2 of 2 (L5P))



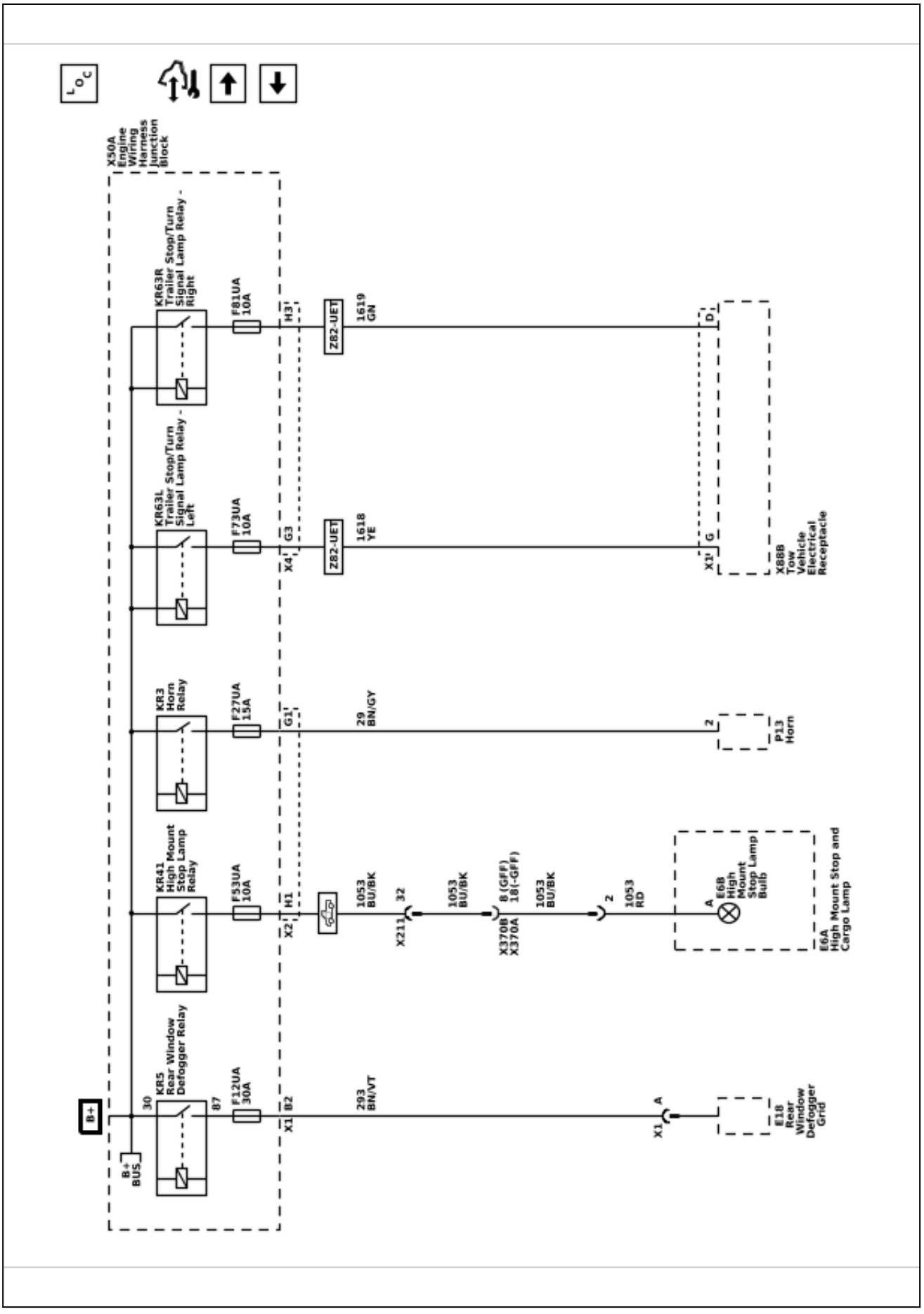
Power Distribution Schematics (F3UA, F4UA, F7UA, F10UA, F17UA, F20UA, F22UA, F25UA, F30UA, and F31UA Fuses)



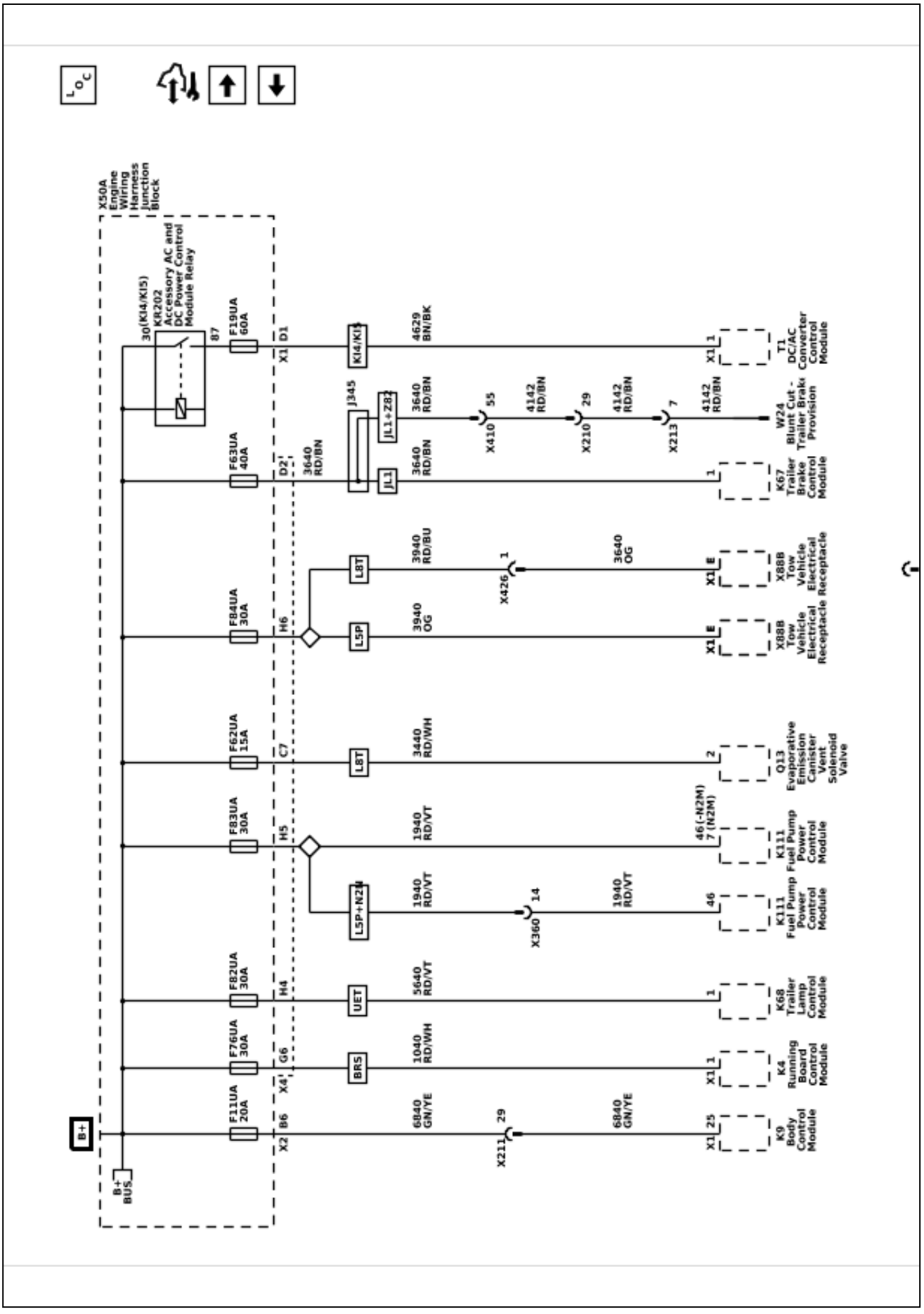
Power Distribution Schematics (F50UA, F55UA, F60UA, and F80UA Fuses)



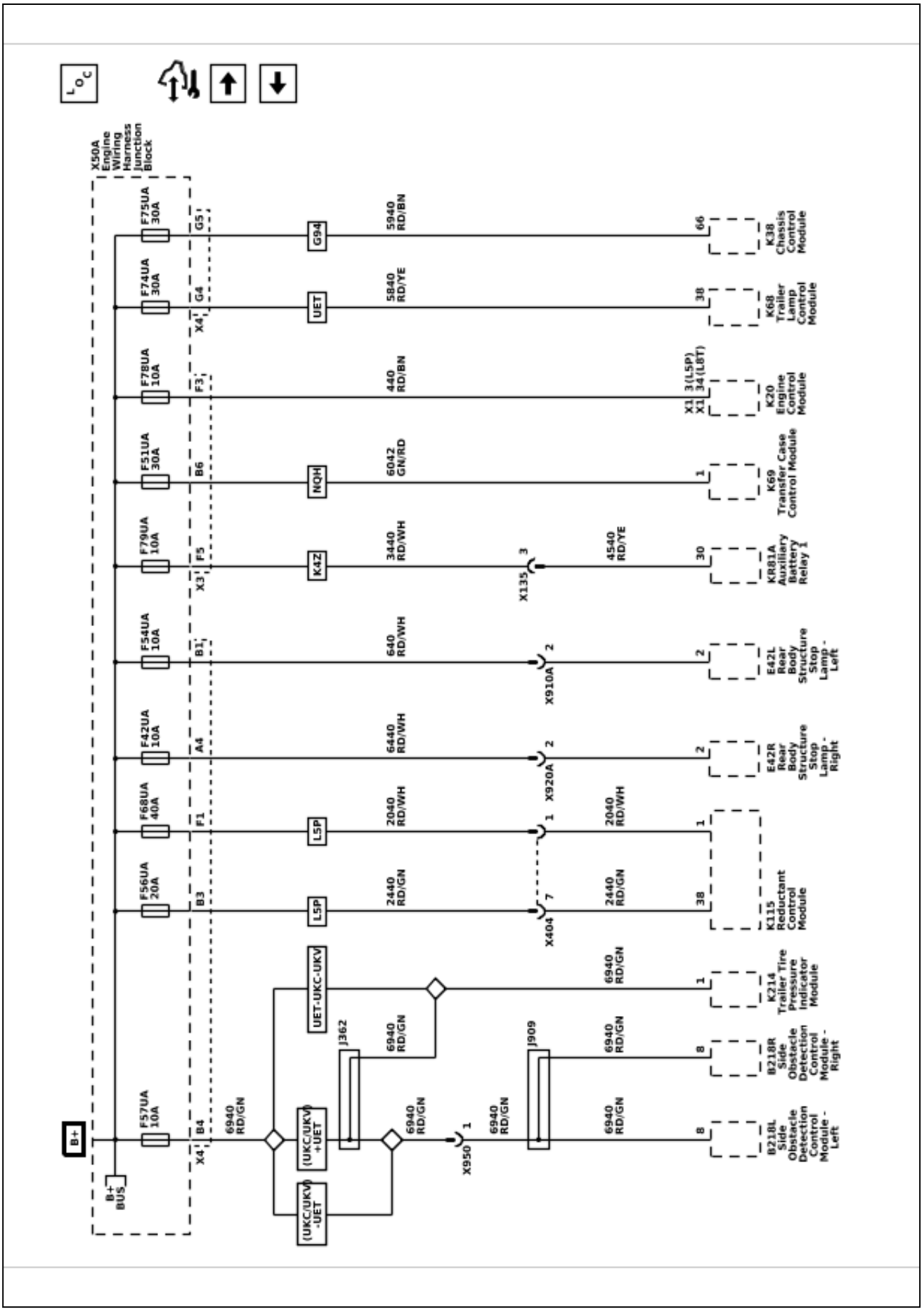
Power Distribution Schematics (F12UA, F27UA, F53UA, F73UA, and F81UA Fuses)



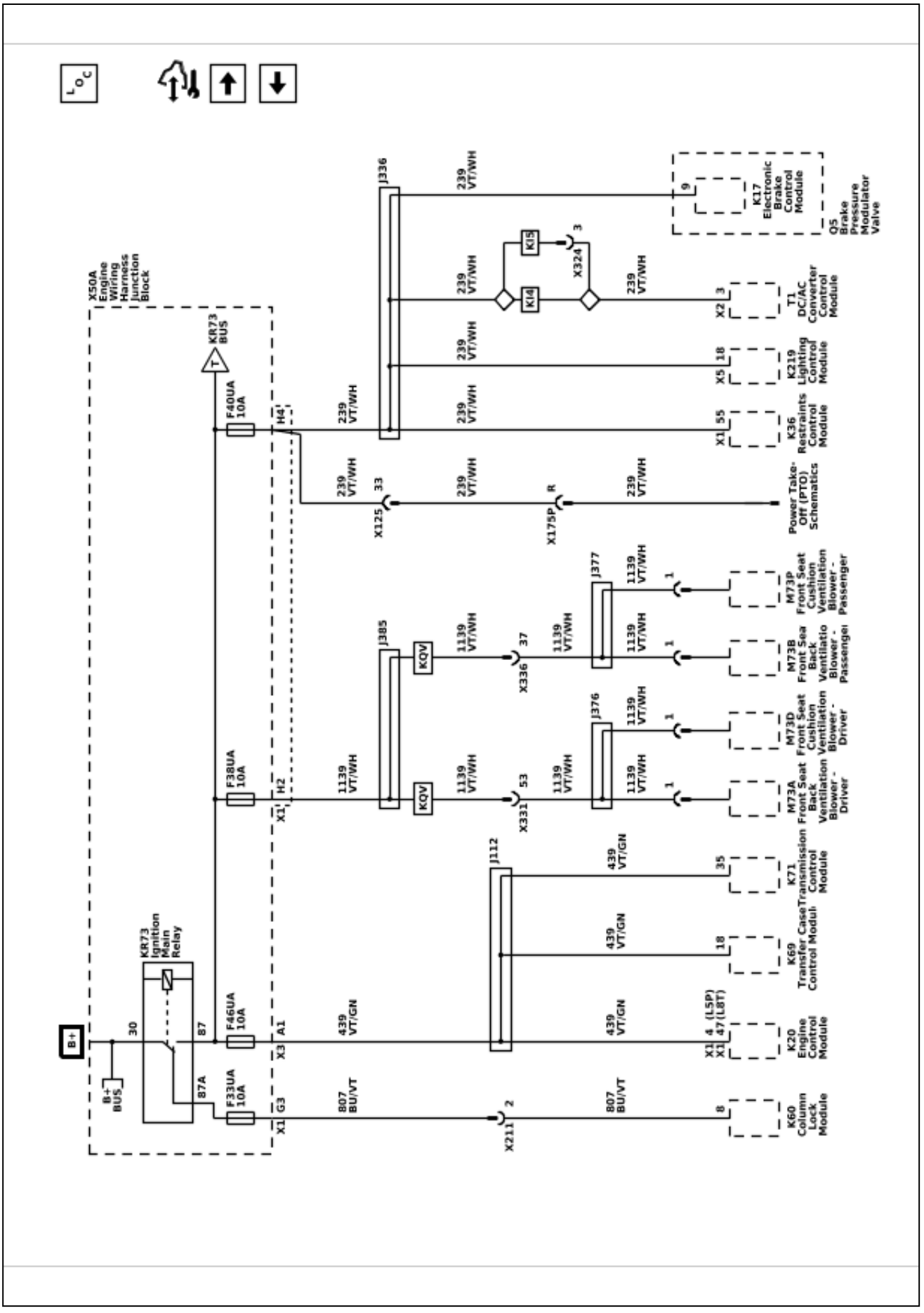
Power Distribution Schematics (F11UA, F19UA, F62UA, F63UA, F76UA, F82UA, F83UA, and F84UA Fuses)



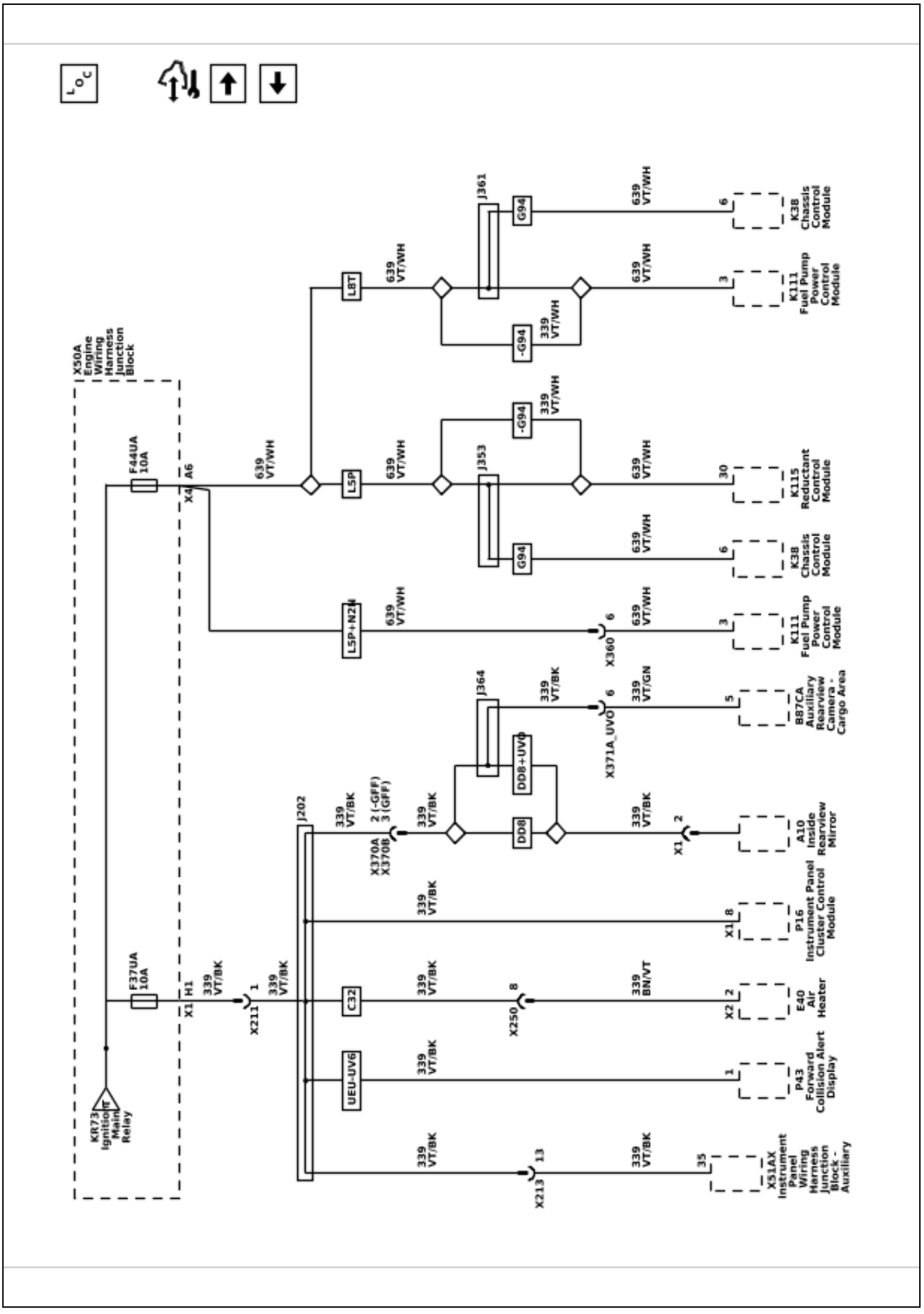
Power Distribution Schematics (F42UA, F51UA, F54UA, F56UA, F57UA, F68UA, F74UA, F75UA, F78UA, and F79UA Fuses)



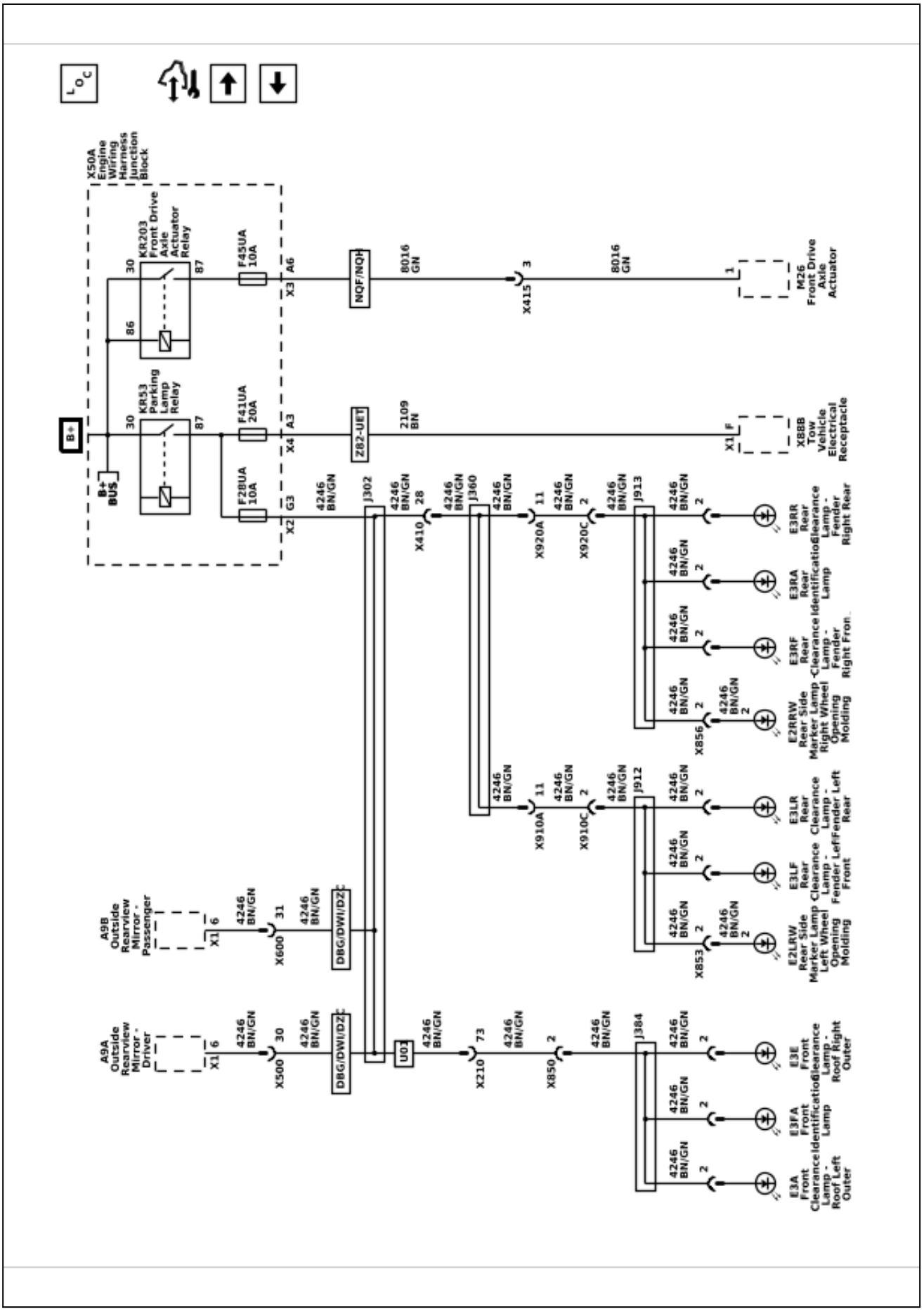
Power Distribution Schematics (F33UA, F38UA, F40UA, and F46UA Fuses)



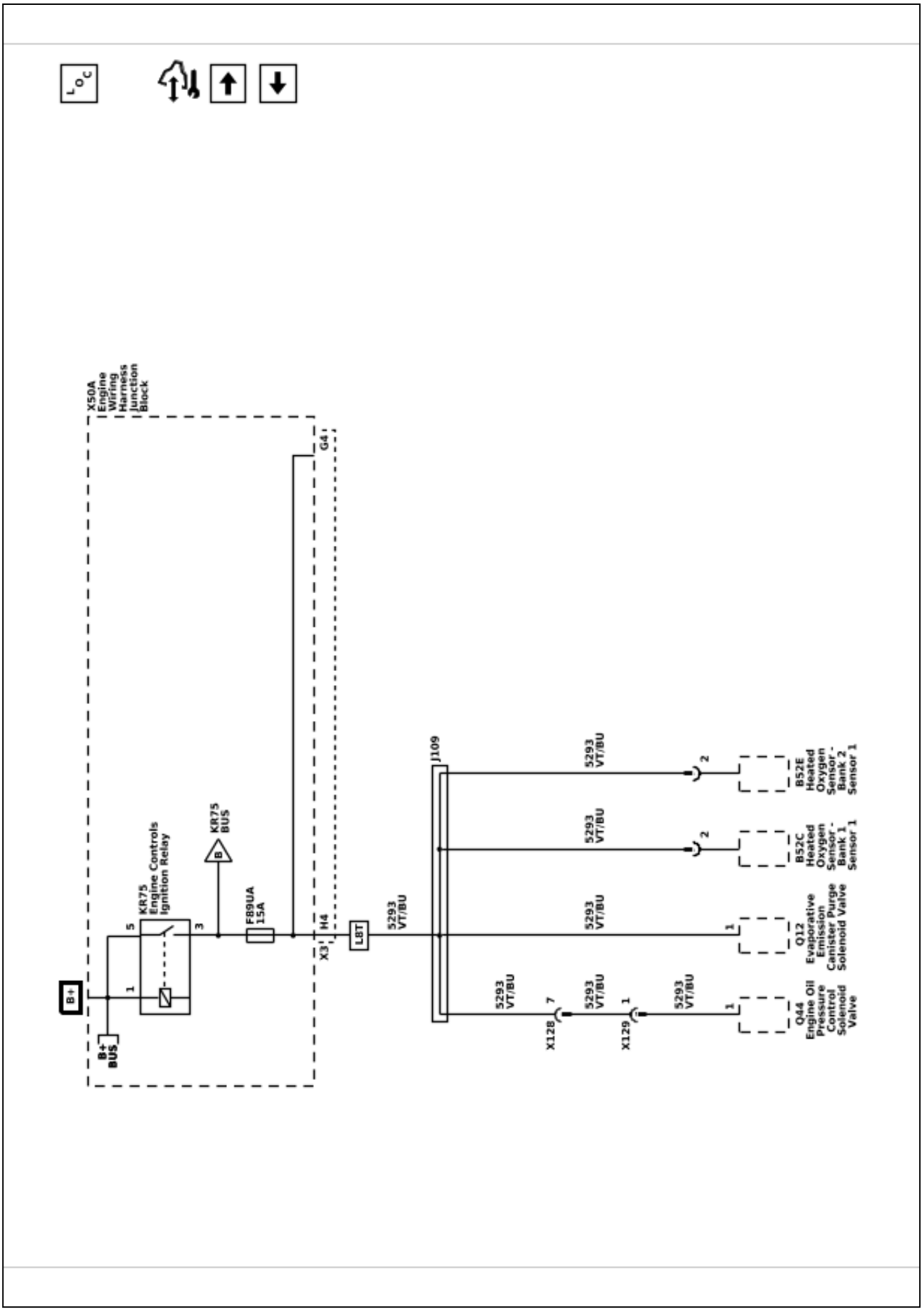
Power Distribution Schematics (F37UA and F44UA Fuses)



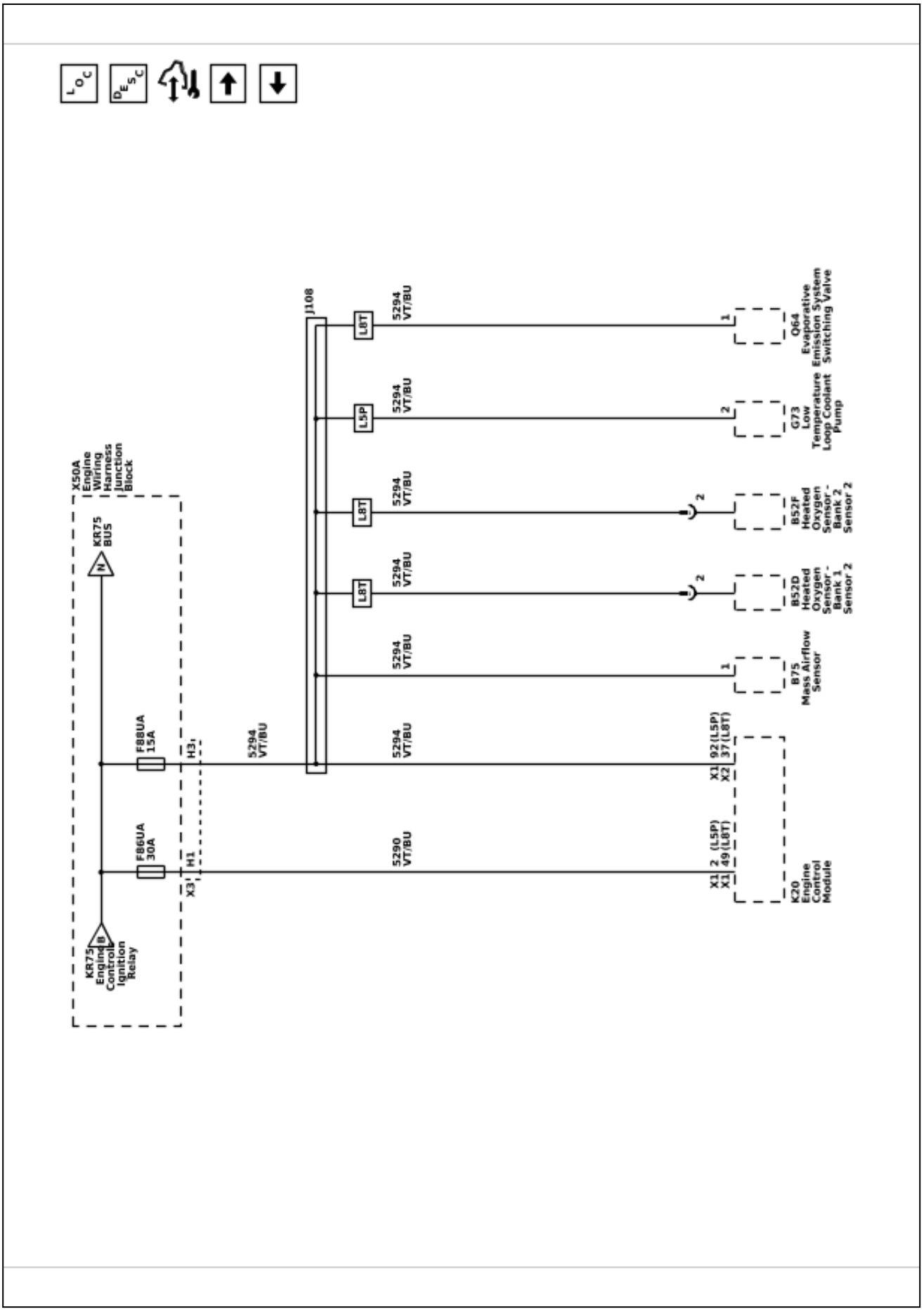
Power Distribution Schematics (F28UA, F41UA, and F45UA Fuses)



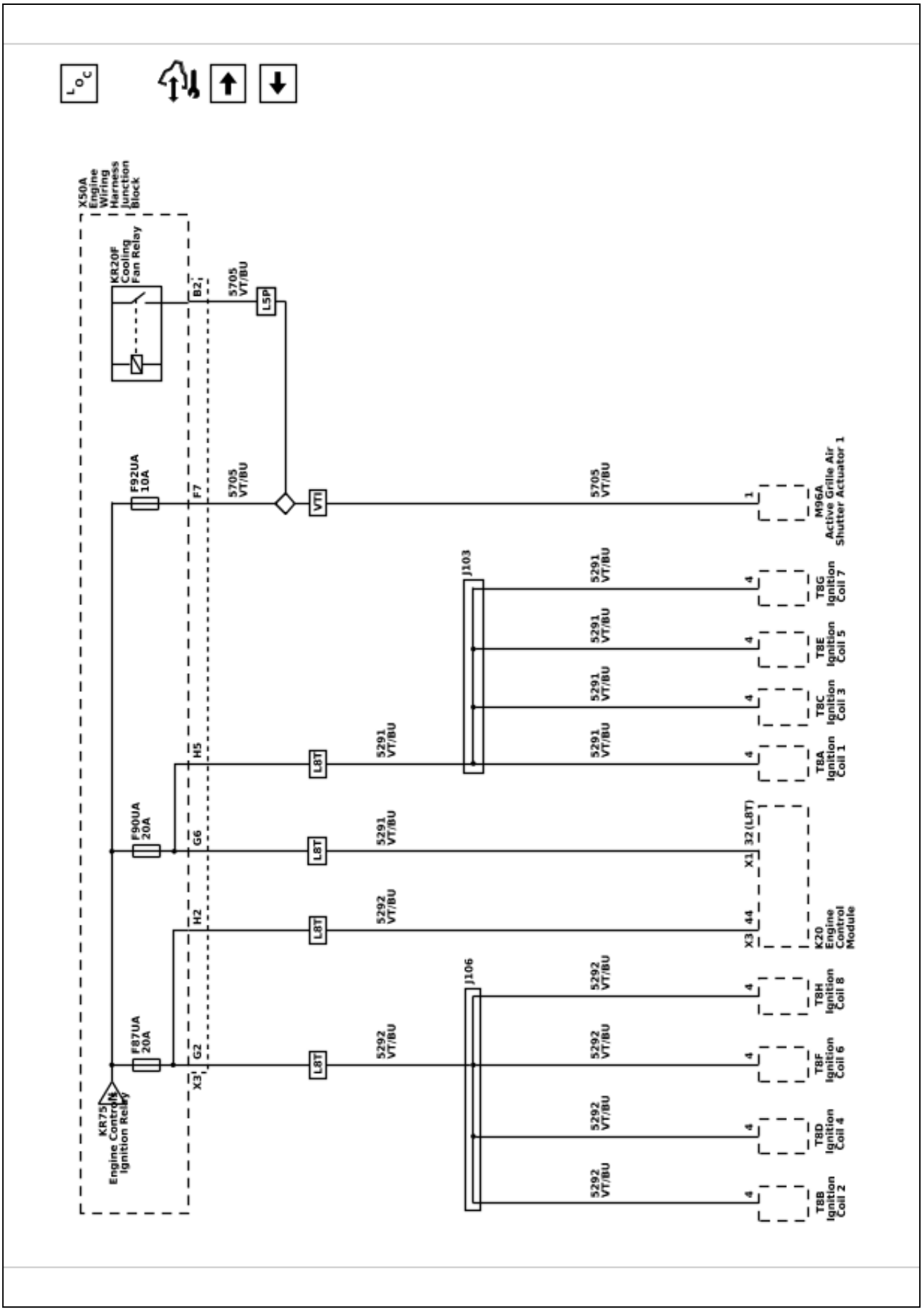
Power Distribution Schematics (F89UA Fuse)



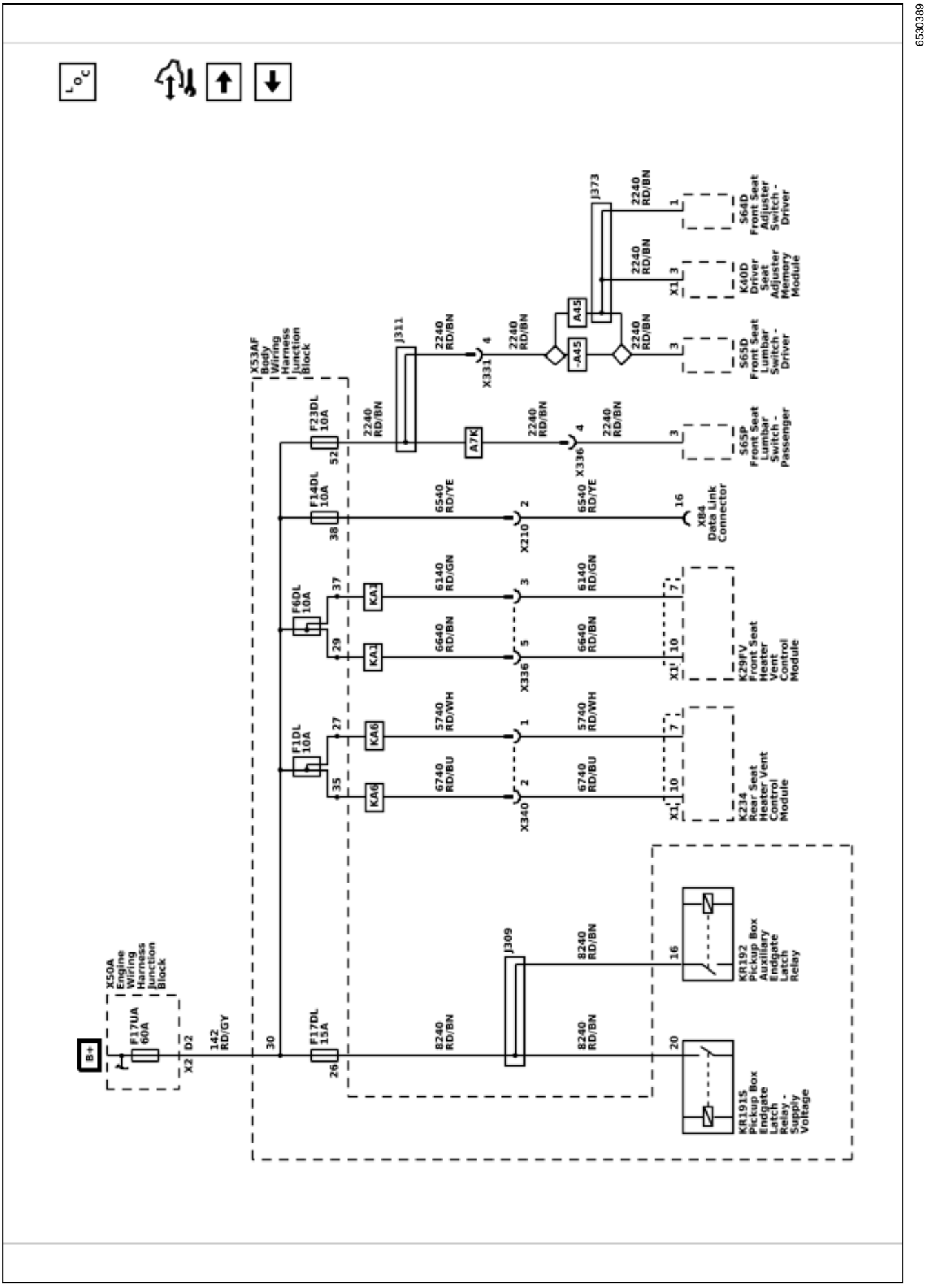
Power Distribution Schematics (F86UA and F88UA Fuses)



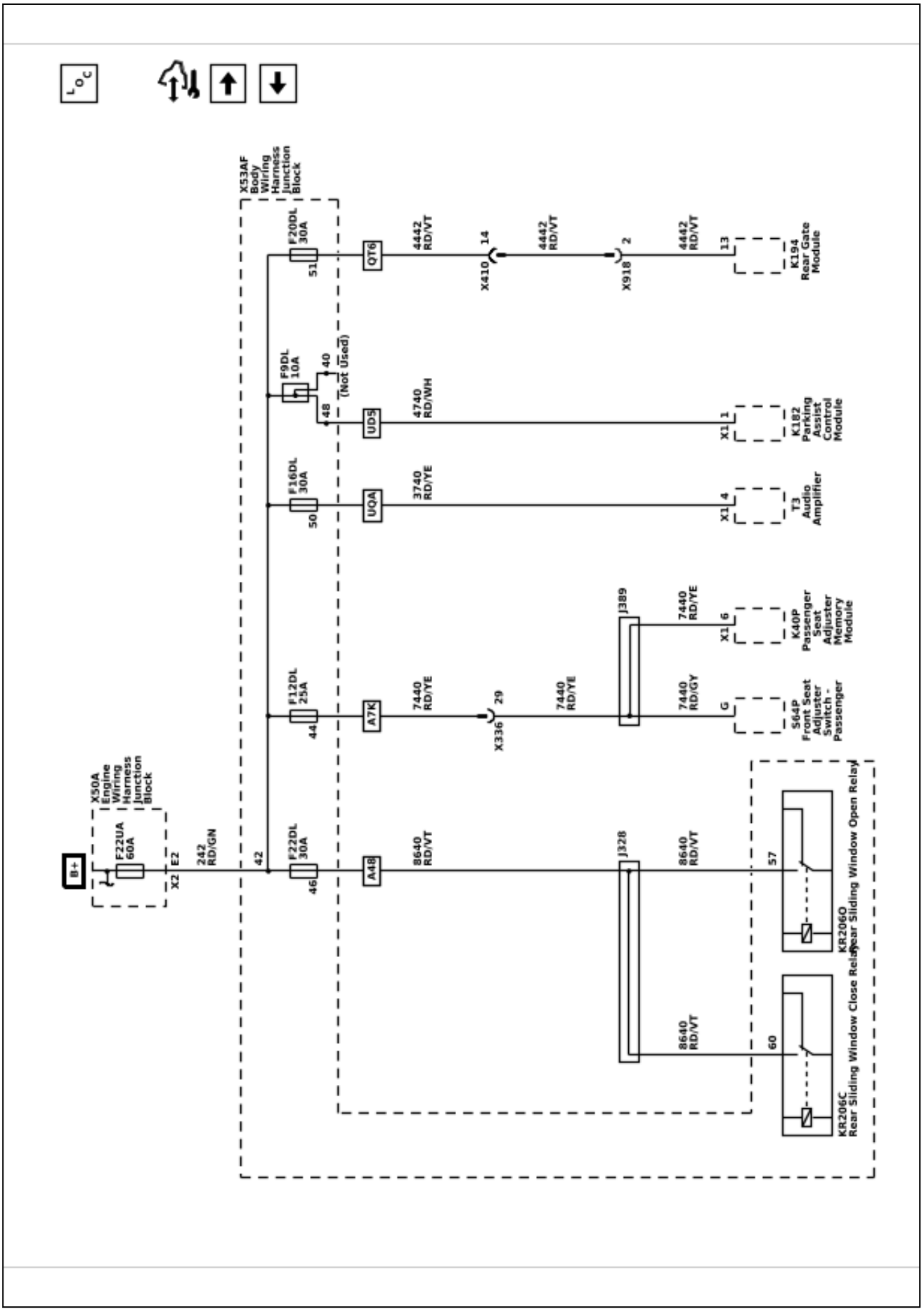
Power Distribution Schematics (F87UA, F90UA, and F92UA Fuses)



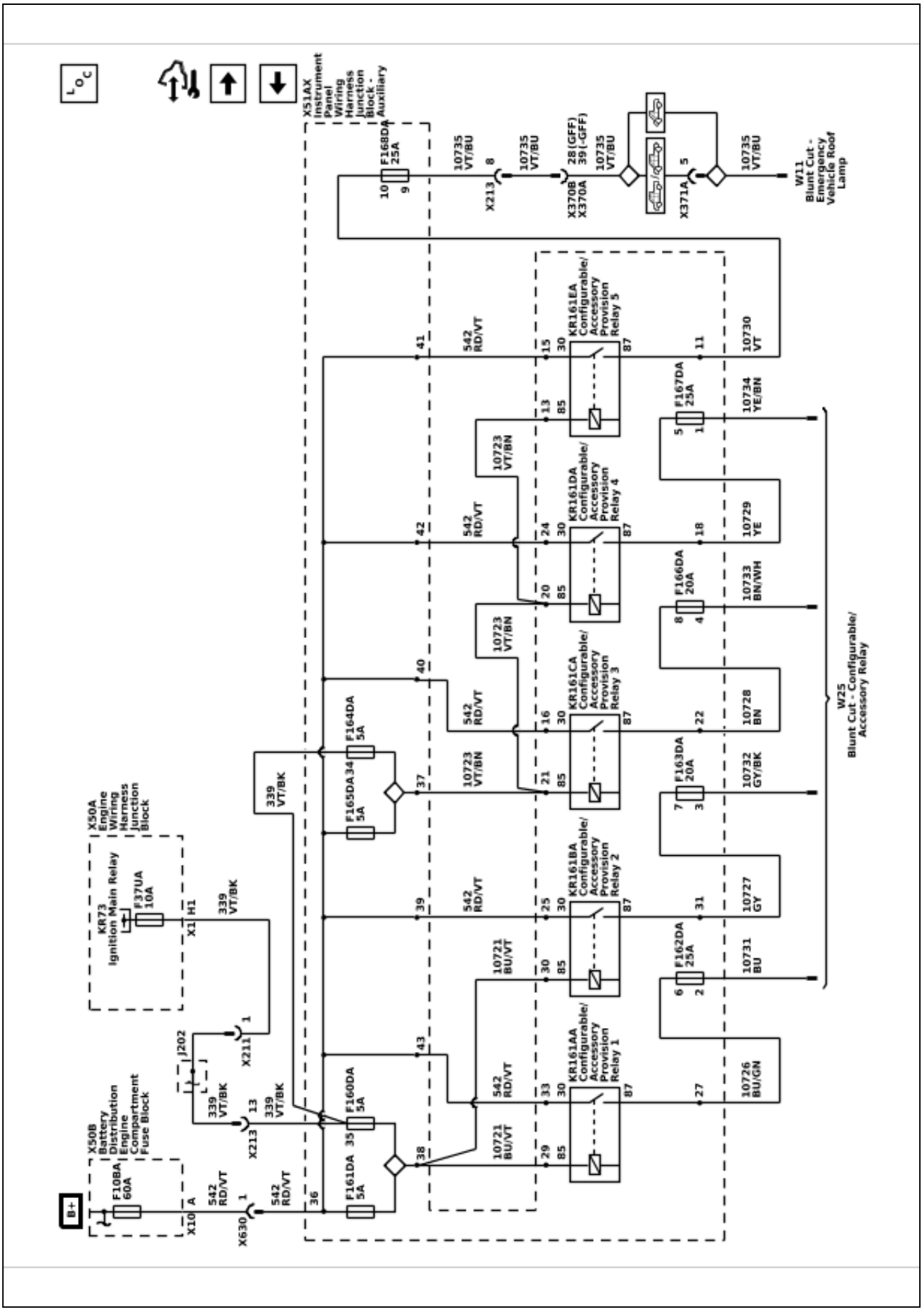
Power Distribution Schematics (F1DL, F6DL, F14DL, F17DL, and F23DL Fuses)



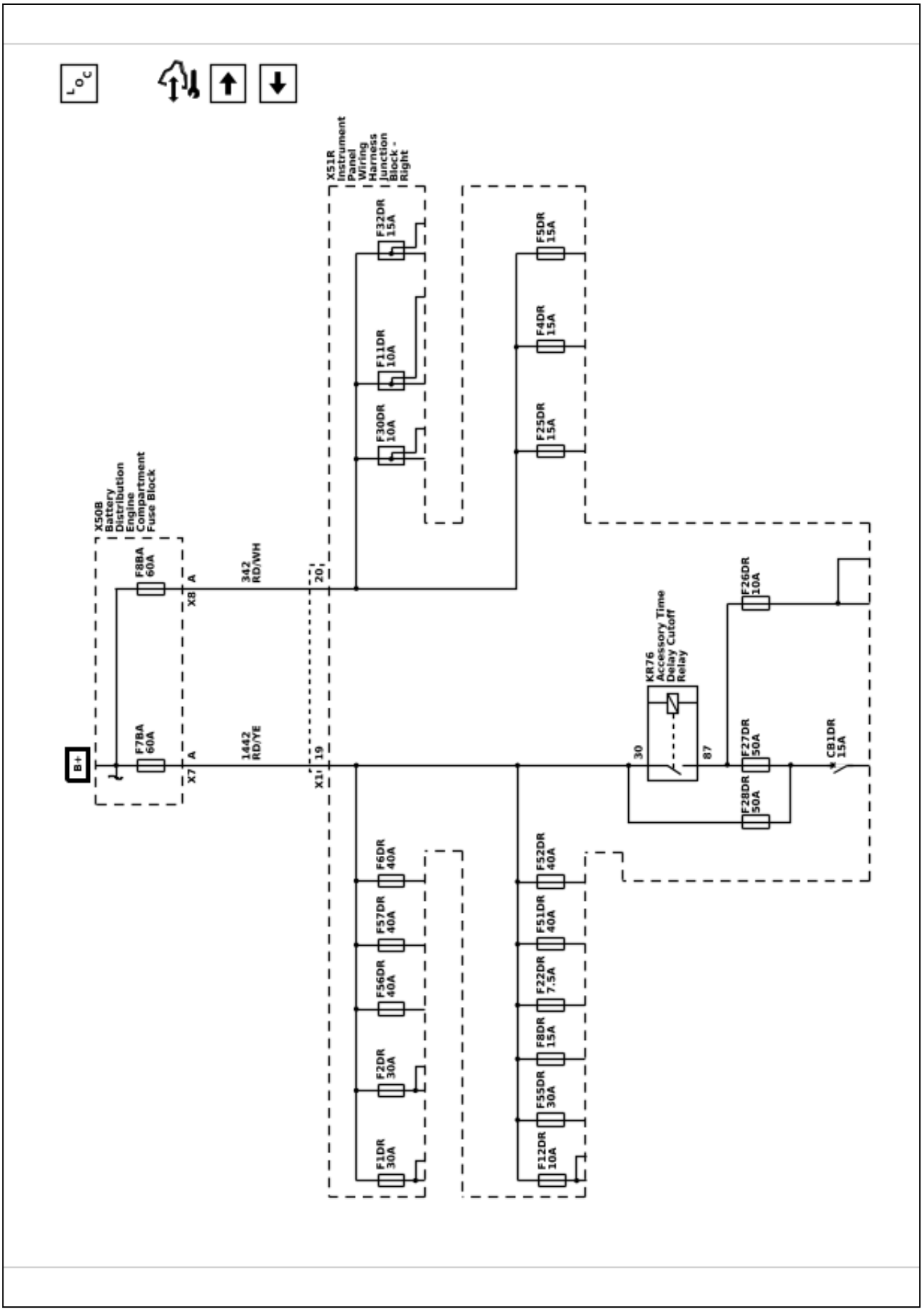
Power Distribution Schematics (F9DL, F12DL, F16DL, F20DL, and F22DL Fuses (L5P))



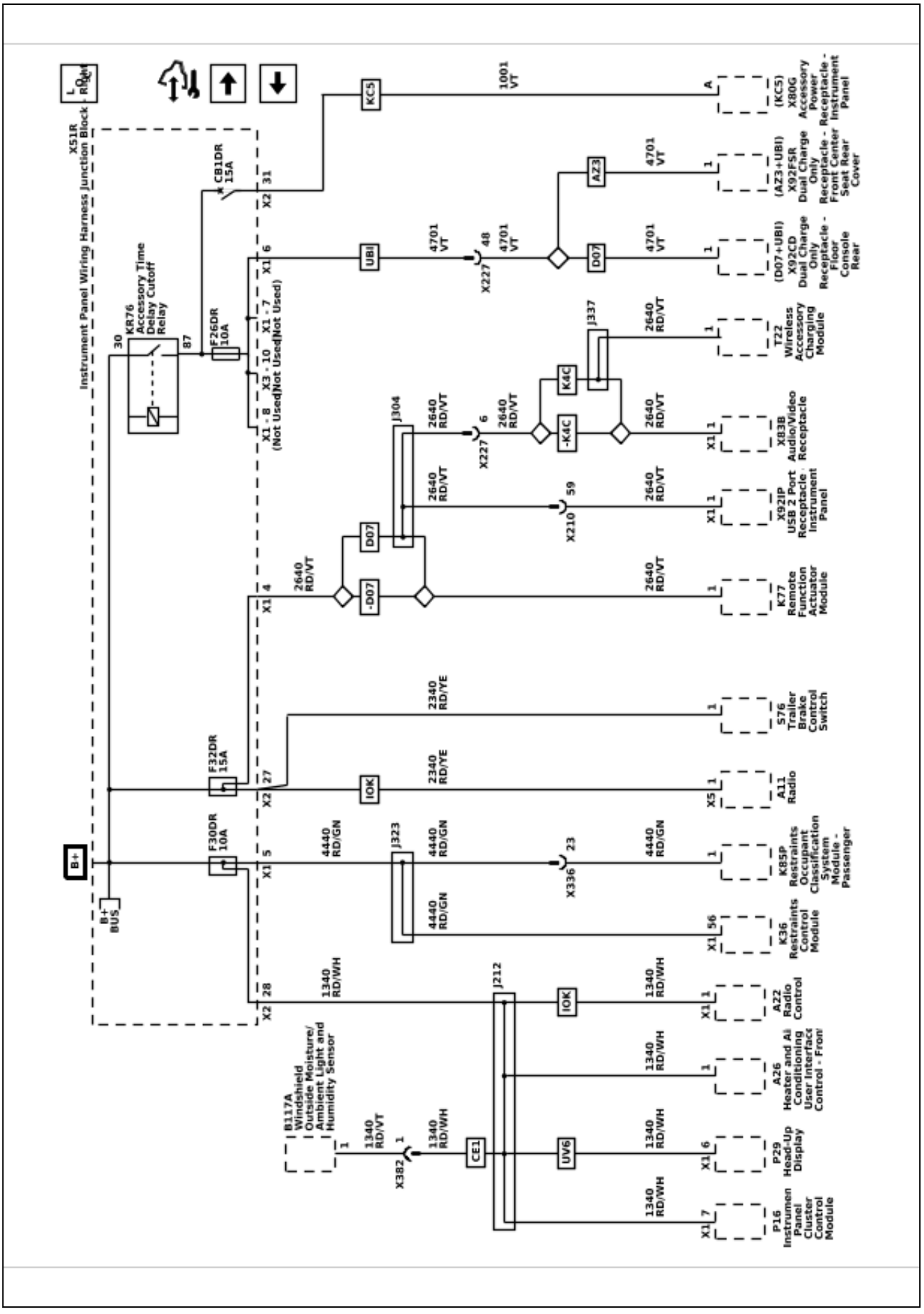
Power Distribution Schematics (Instrument Panel Wiring Harness Junction Block - Auxiliary (L5P))



Power Distribution Schematics (Instrument Panel Wiring Harness Junction Block - Right - B+ Bus)

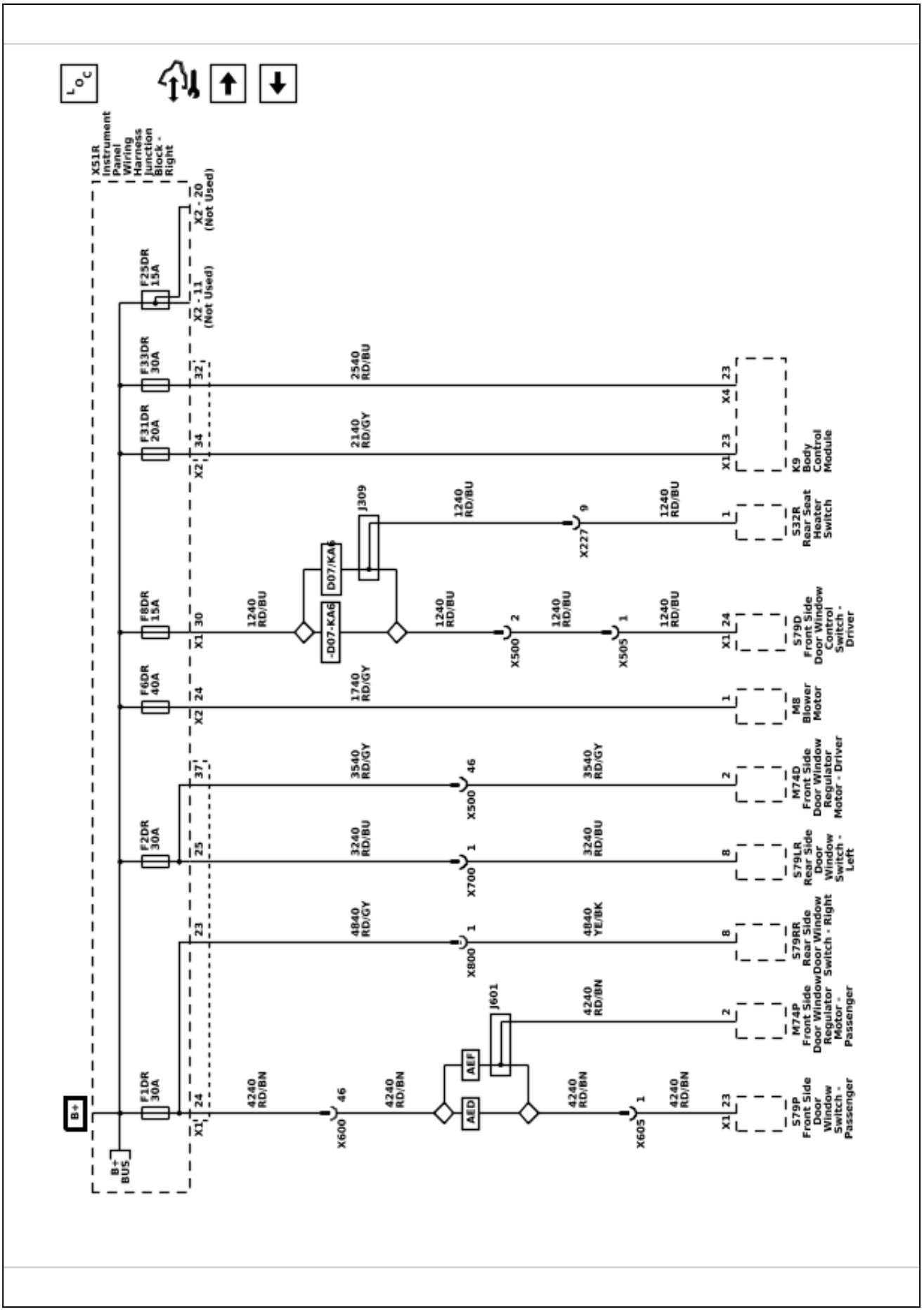


Power Distribution Schematics (CB1DR Circuit Breaker, F26DR, F30DR, and F32DR Fuses)

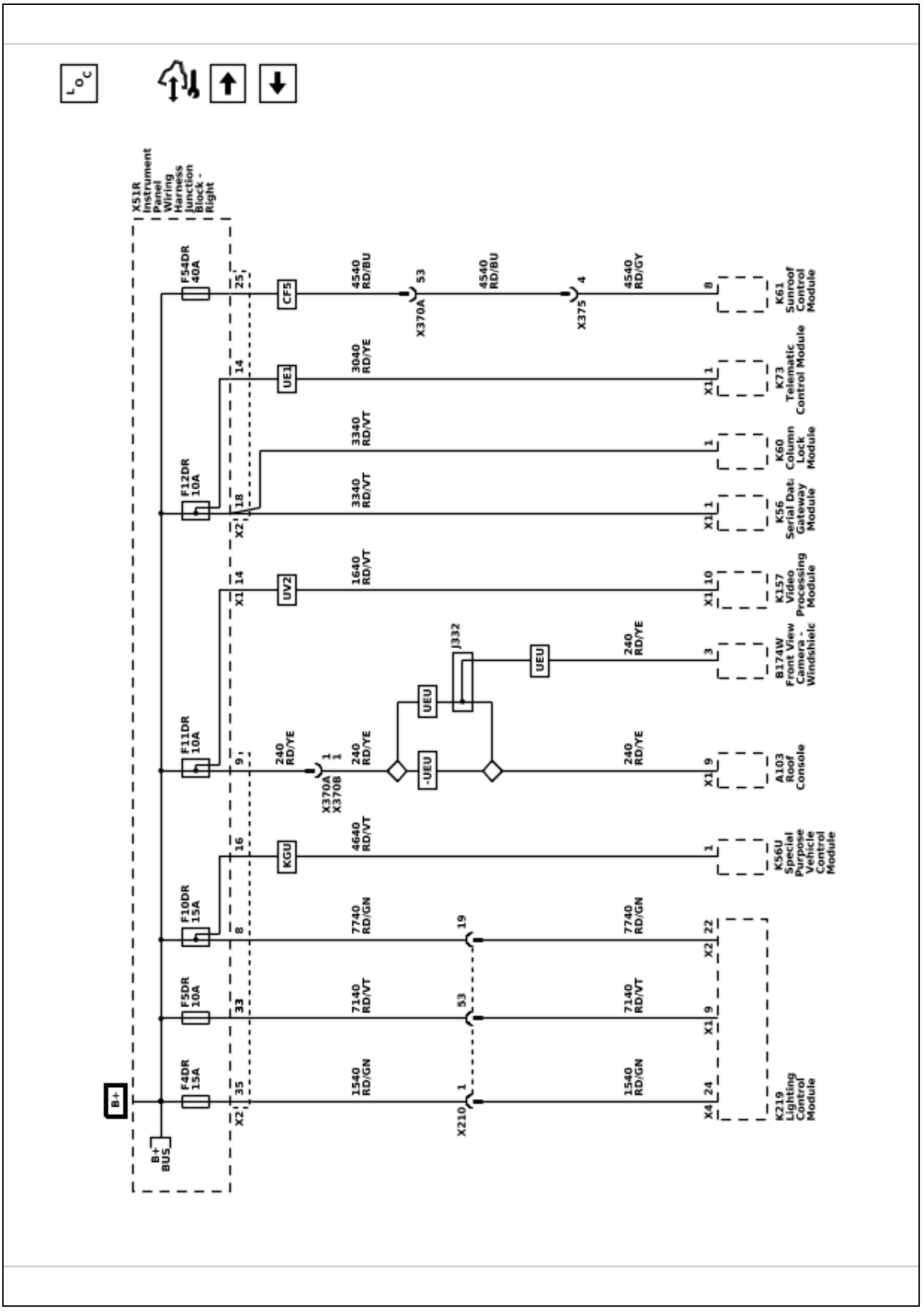


6530393

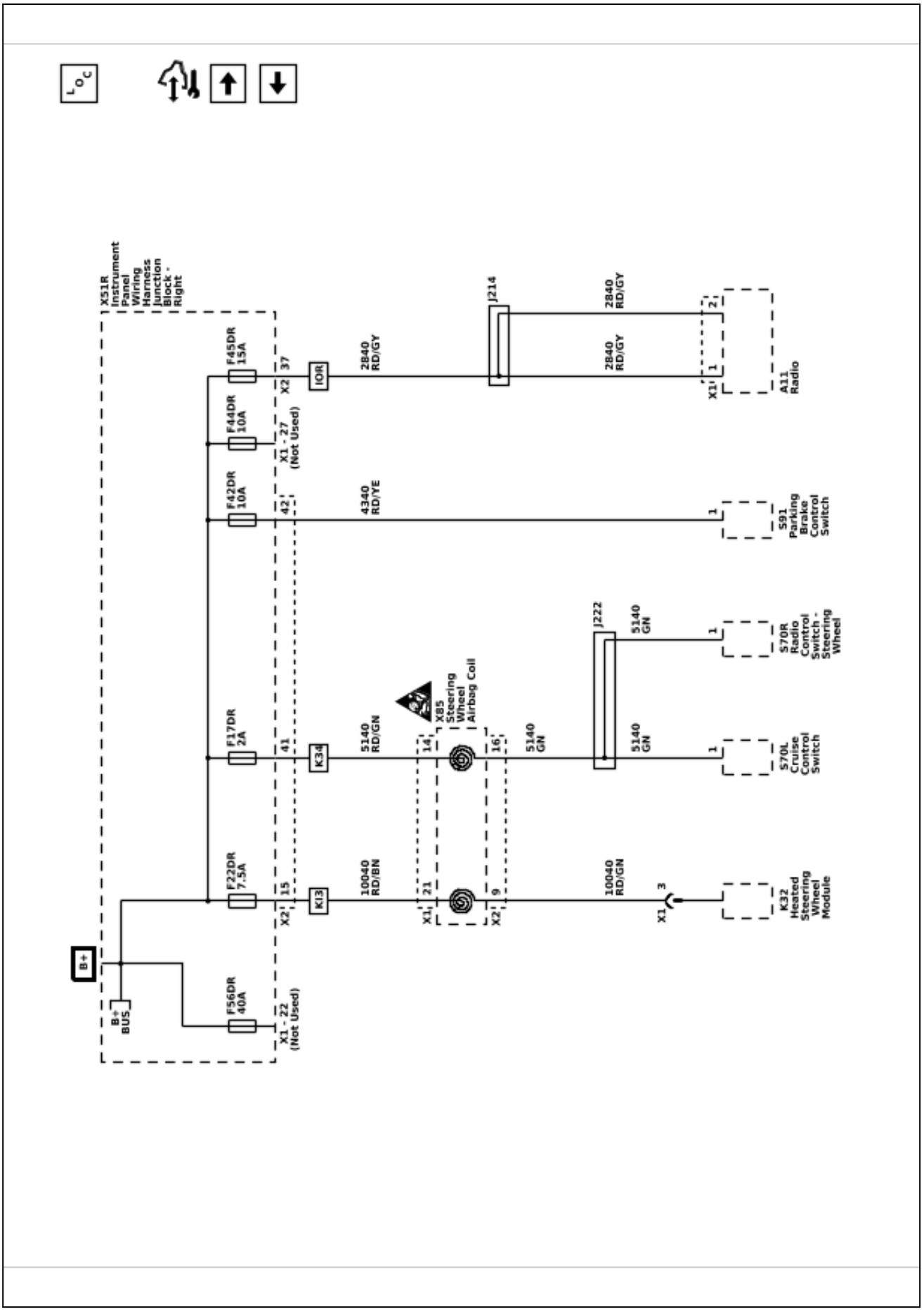
Power Distribution Schematics (F1DR, F2DR, F6DR, F8DR, F25DR, F31DR, and F33DR Fuses (9L7))



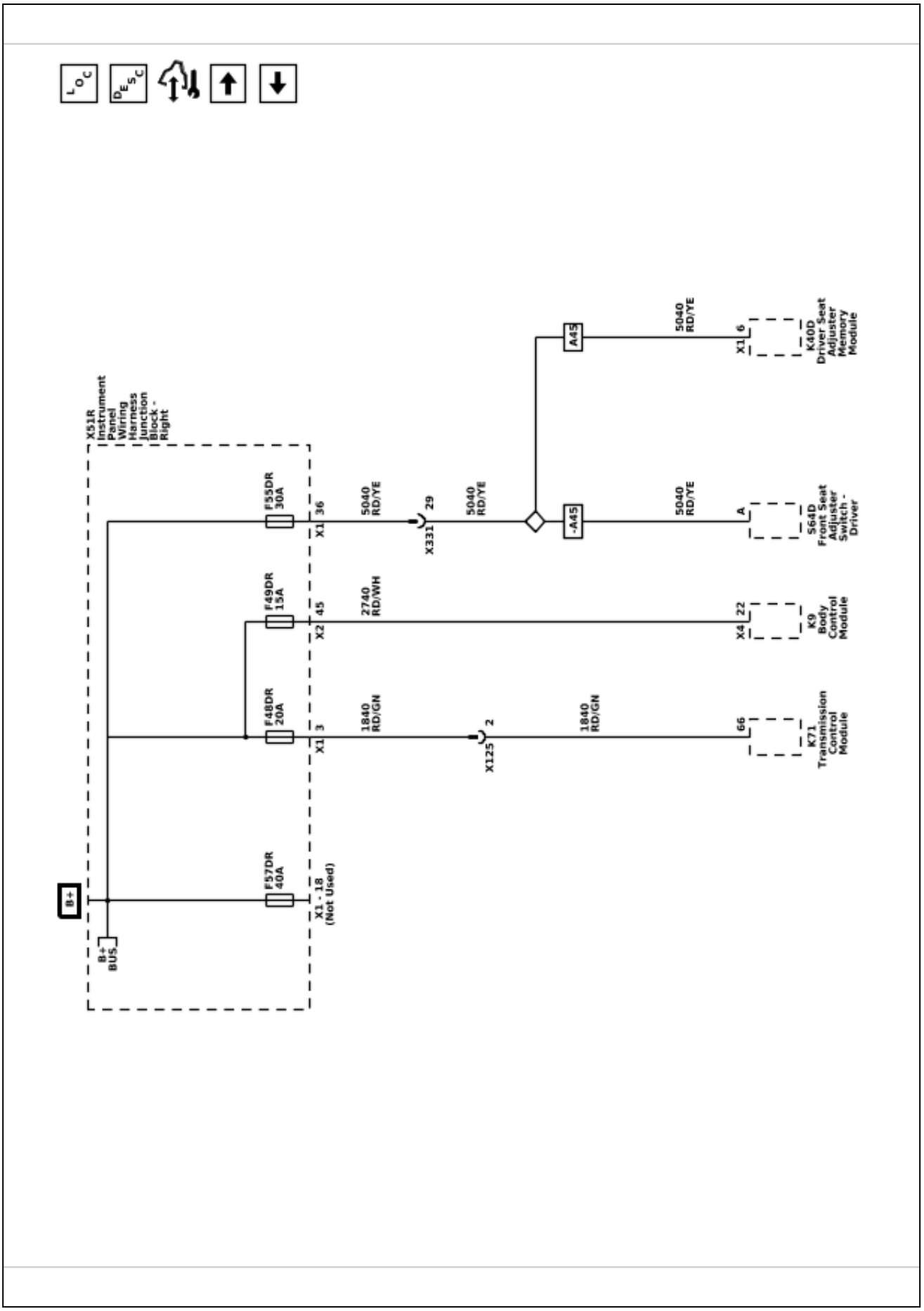
Power Distribution Schematics (F4DR, F5DR, F10DR, F11DR, F12DR, and F54DR Fuses)



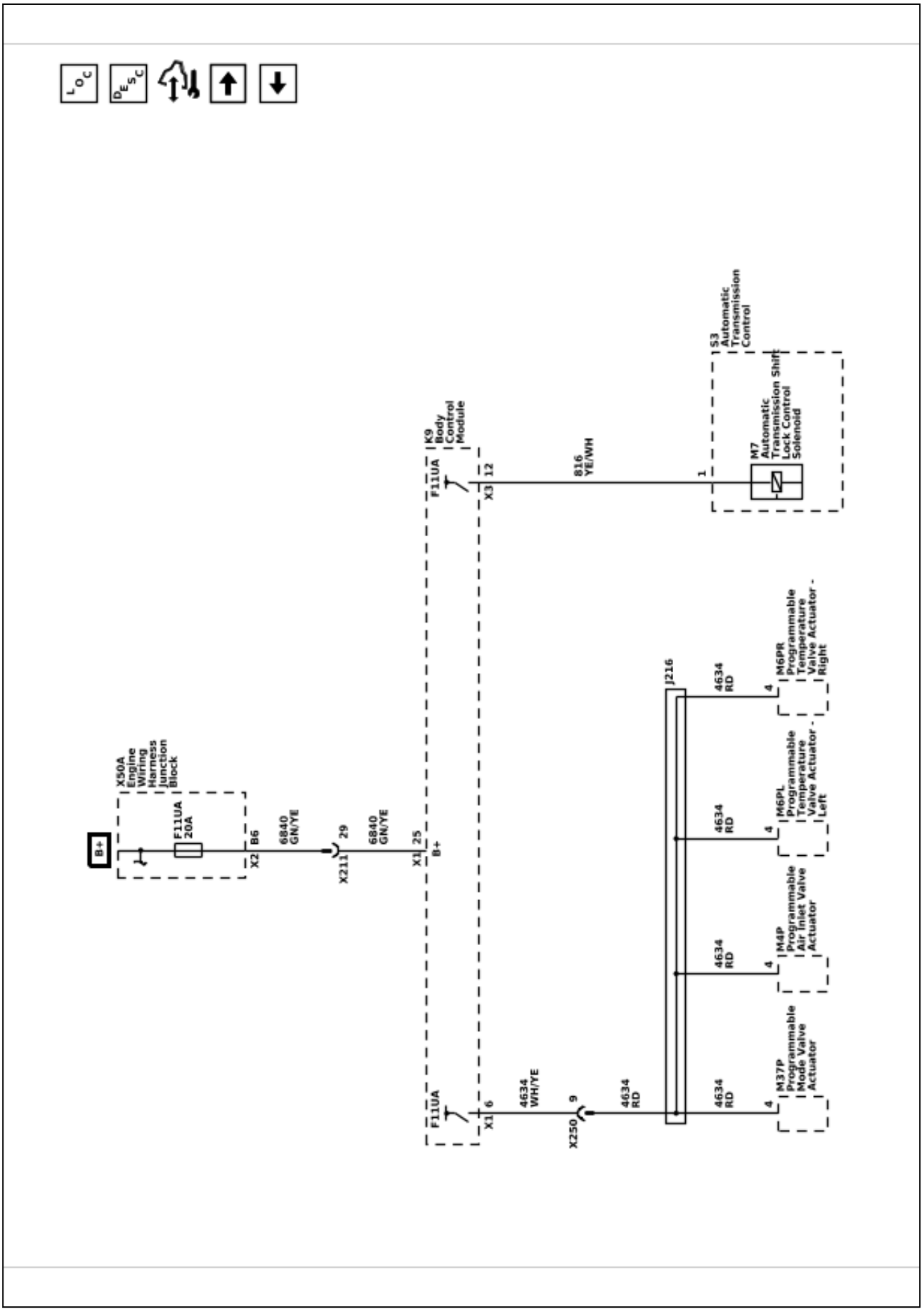
Power Distribution Schematics (F17DR, F22DR, F42DR, F44DR, F45DR, and F56DR Fuses)



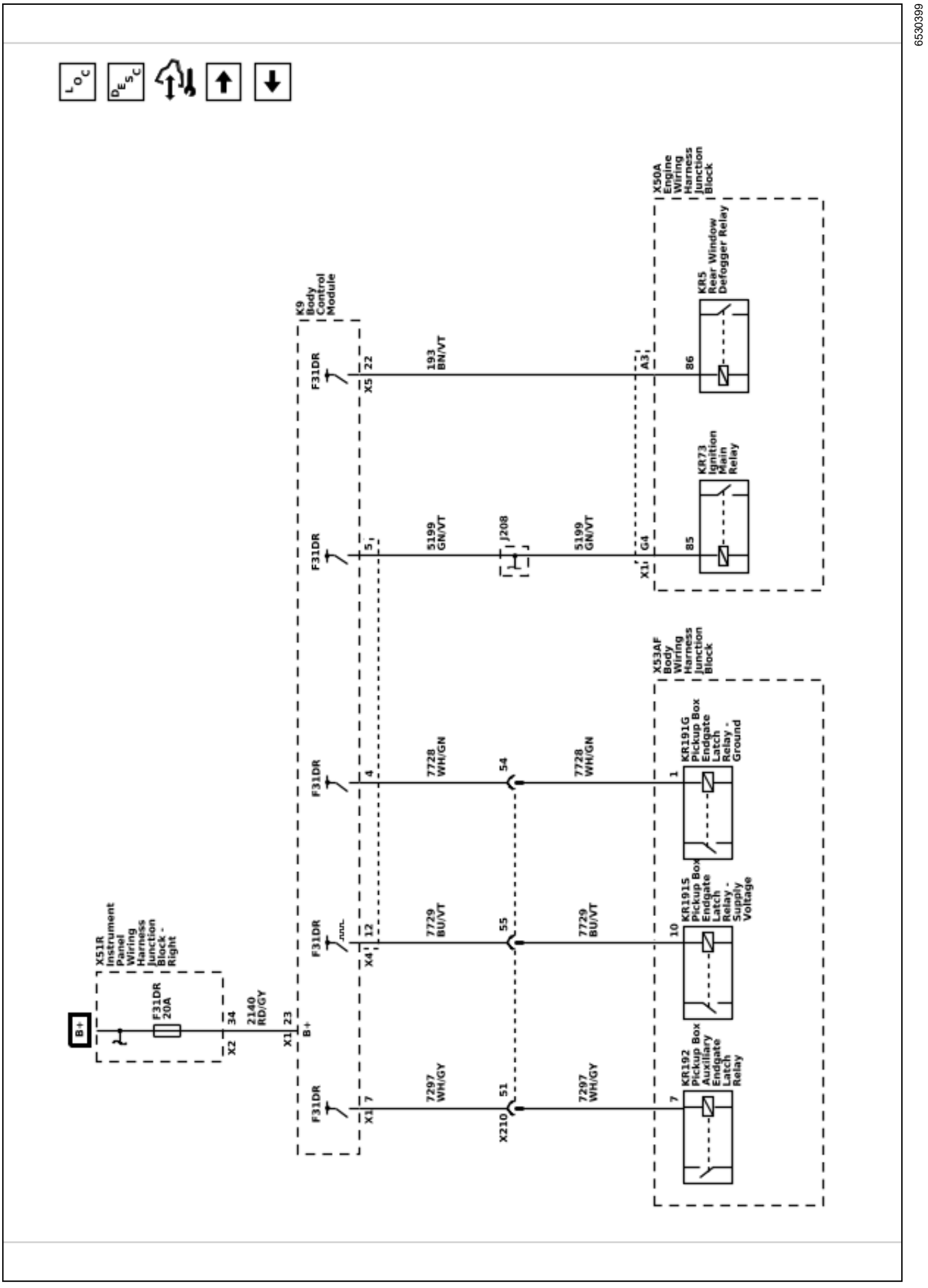
Power Distribution Schematics (F48DR, F49DR, F55DR, and F57DR Fuses)



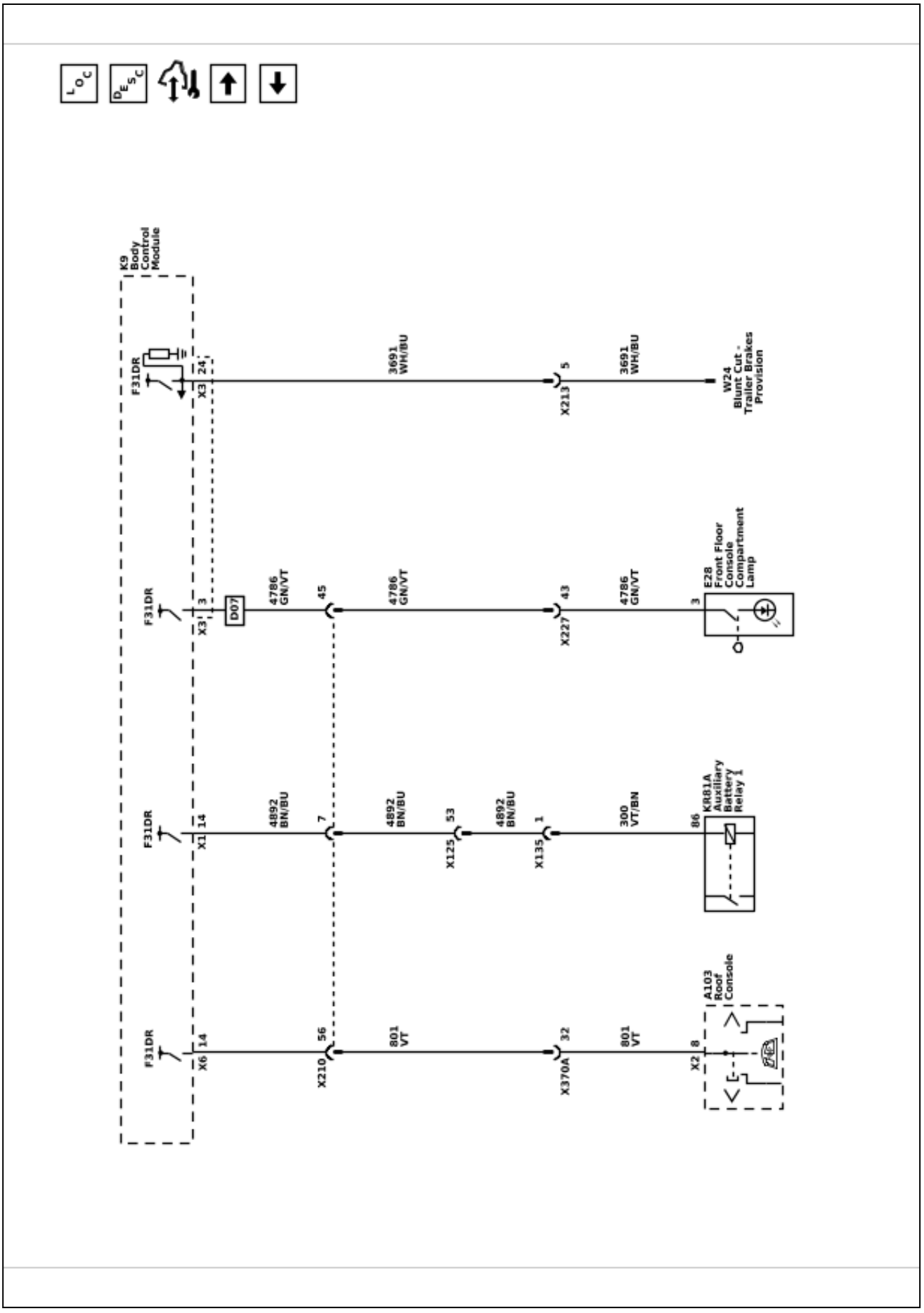
Power Distribution Schematics (Body Control Module High Side Drives - F11UA Fuse)



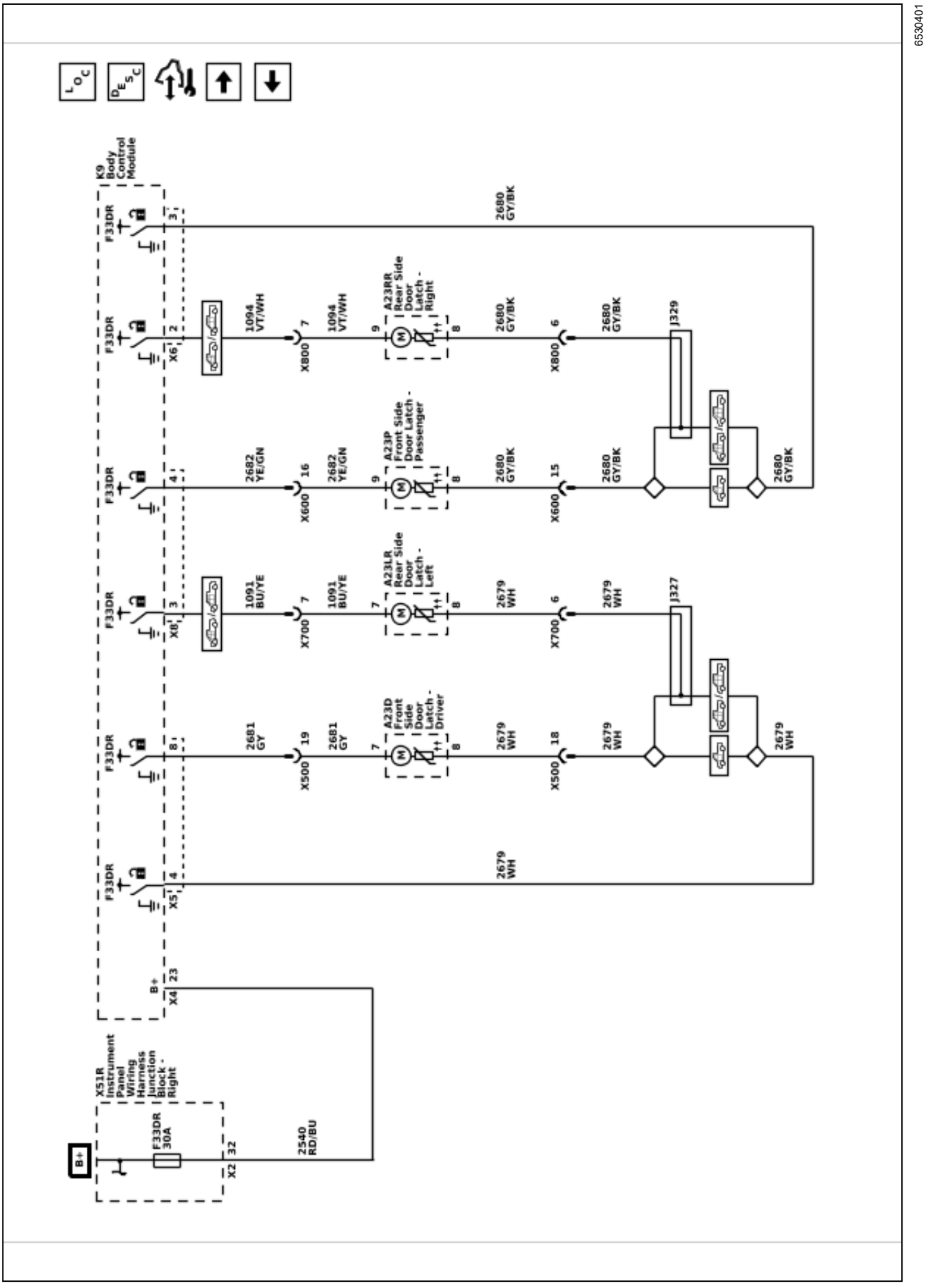
Power Distribution Schematics (Body Control Module High Side Drives - F31DR Fuse - 1 of 2)



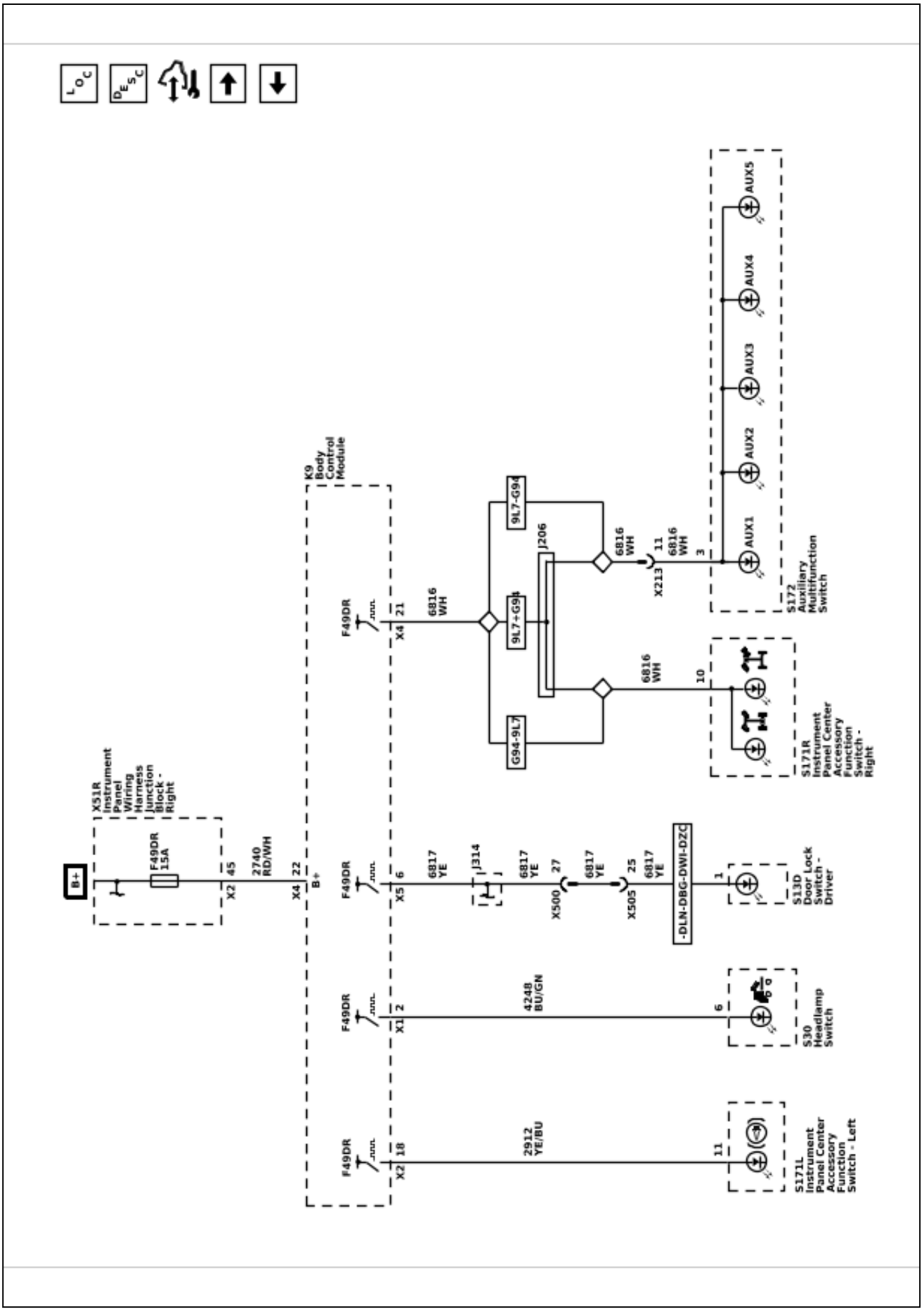
Power Distribution Schematics (Body Control Module High Side Drives - F31DR Fuse - 2 of 2)



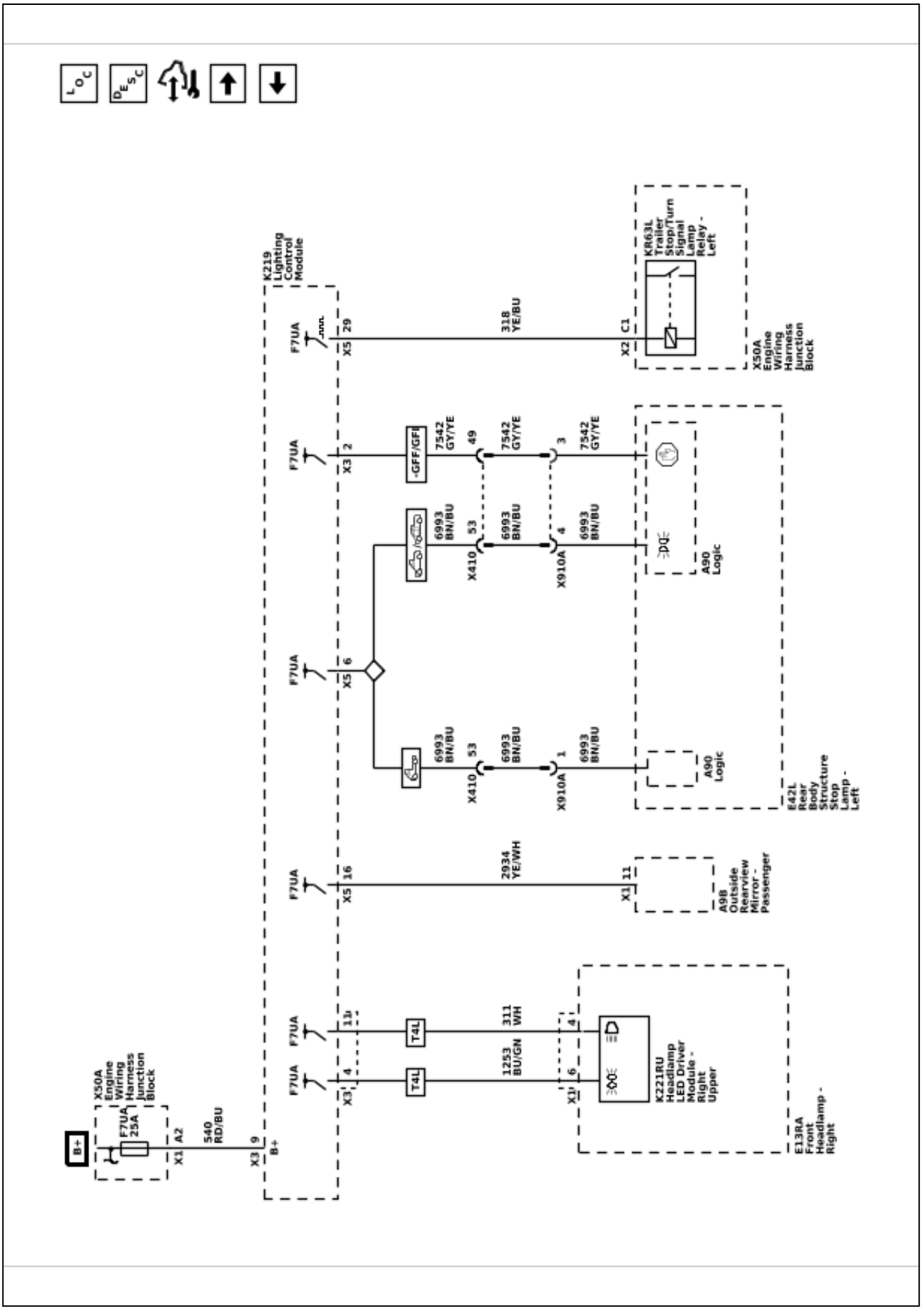
Power Distribution Schematics (Body Control Module High Side Drives - F33DR Fuse)



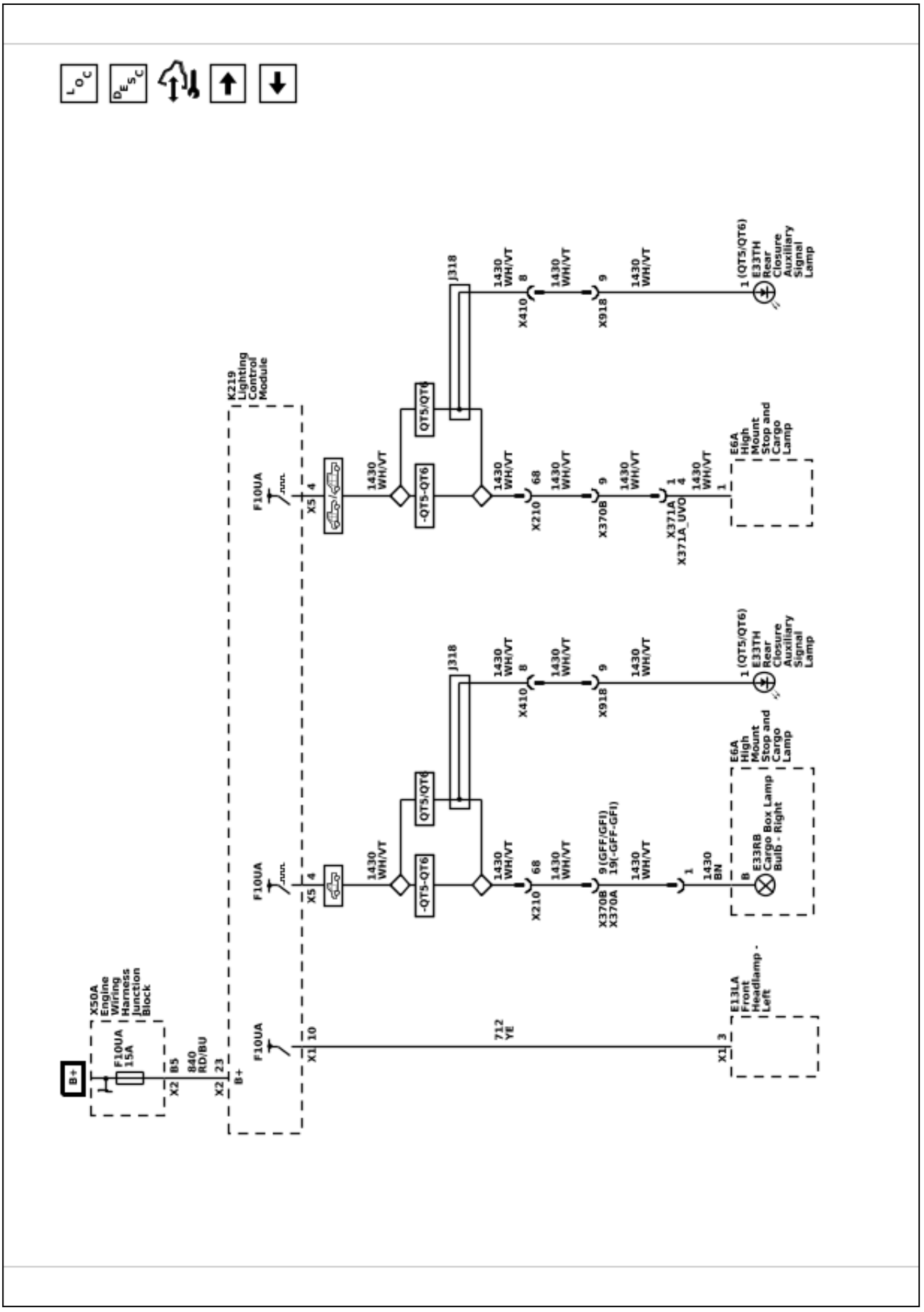
Power Distribution Schematics (Body Control Module High Side Drives - F49DR Fuse)



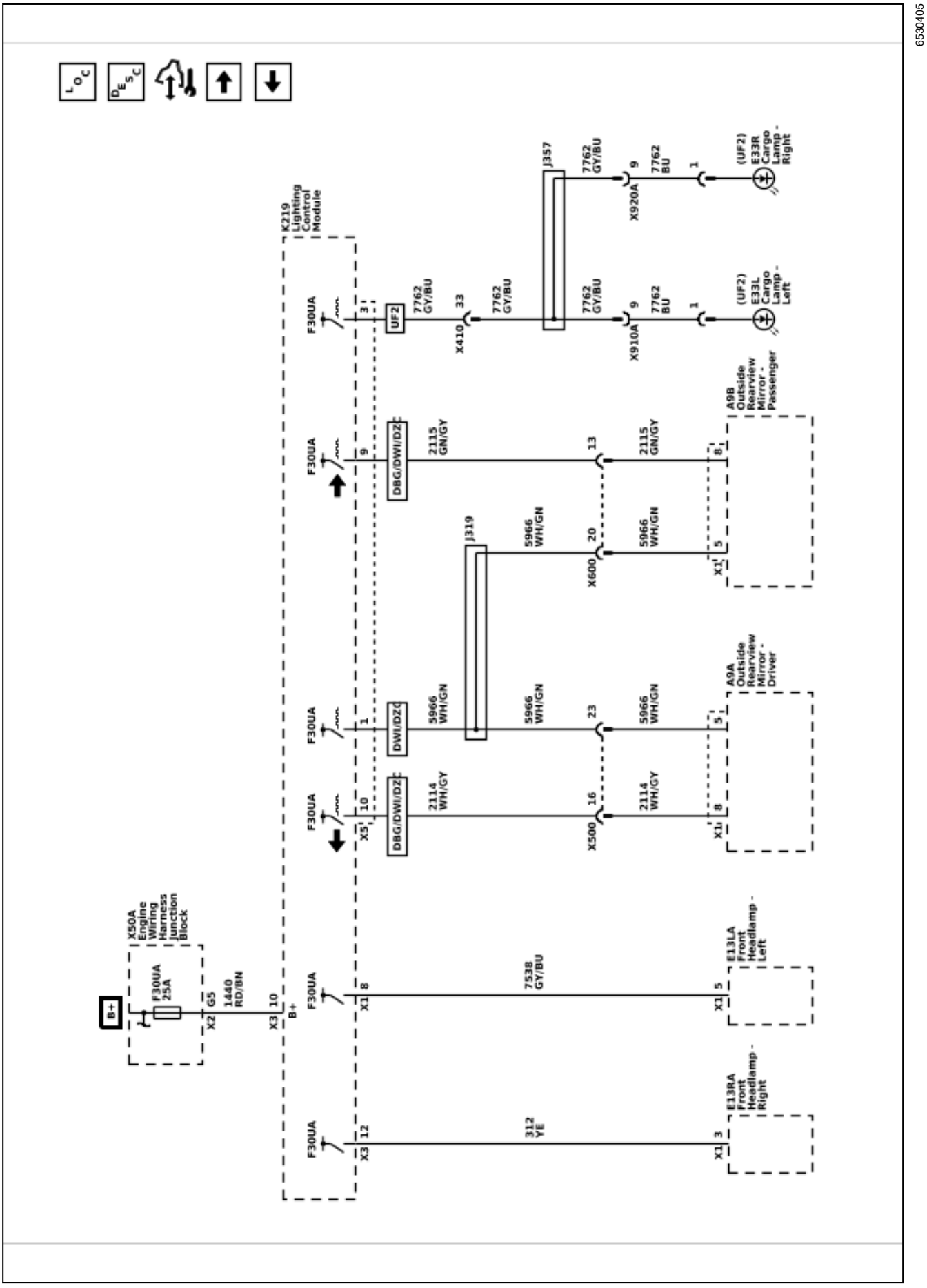
Power Distribution Schematics (Lighting Control Module High Side Drives - F7UA Fuse)



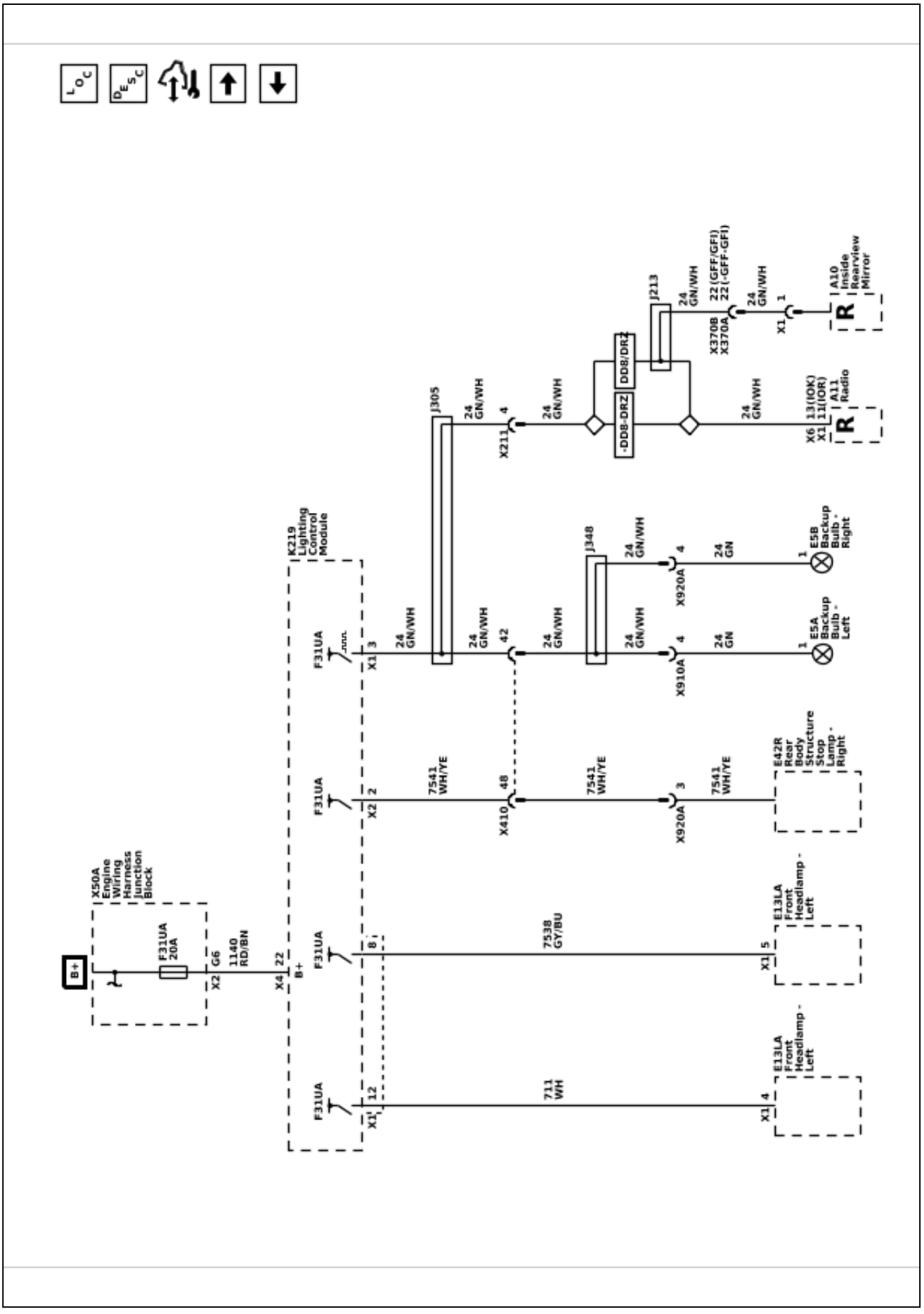
Power Distribution Schematics (Lighting Control Module High Side Drives - F10UA Fuse)



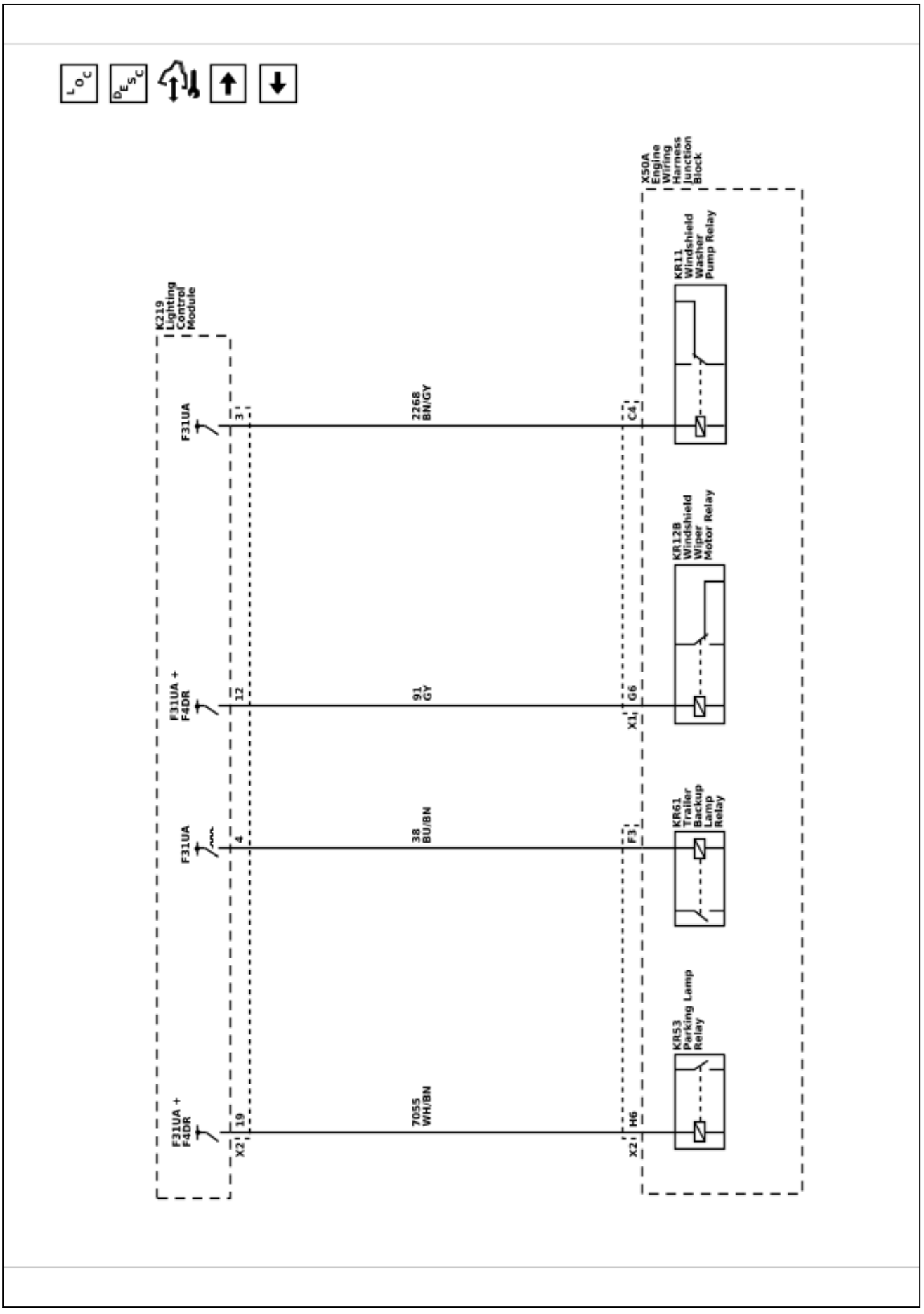
Power Distribution Schematics (Lighting Control Module High Side Drives - F30UA Fuse)



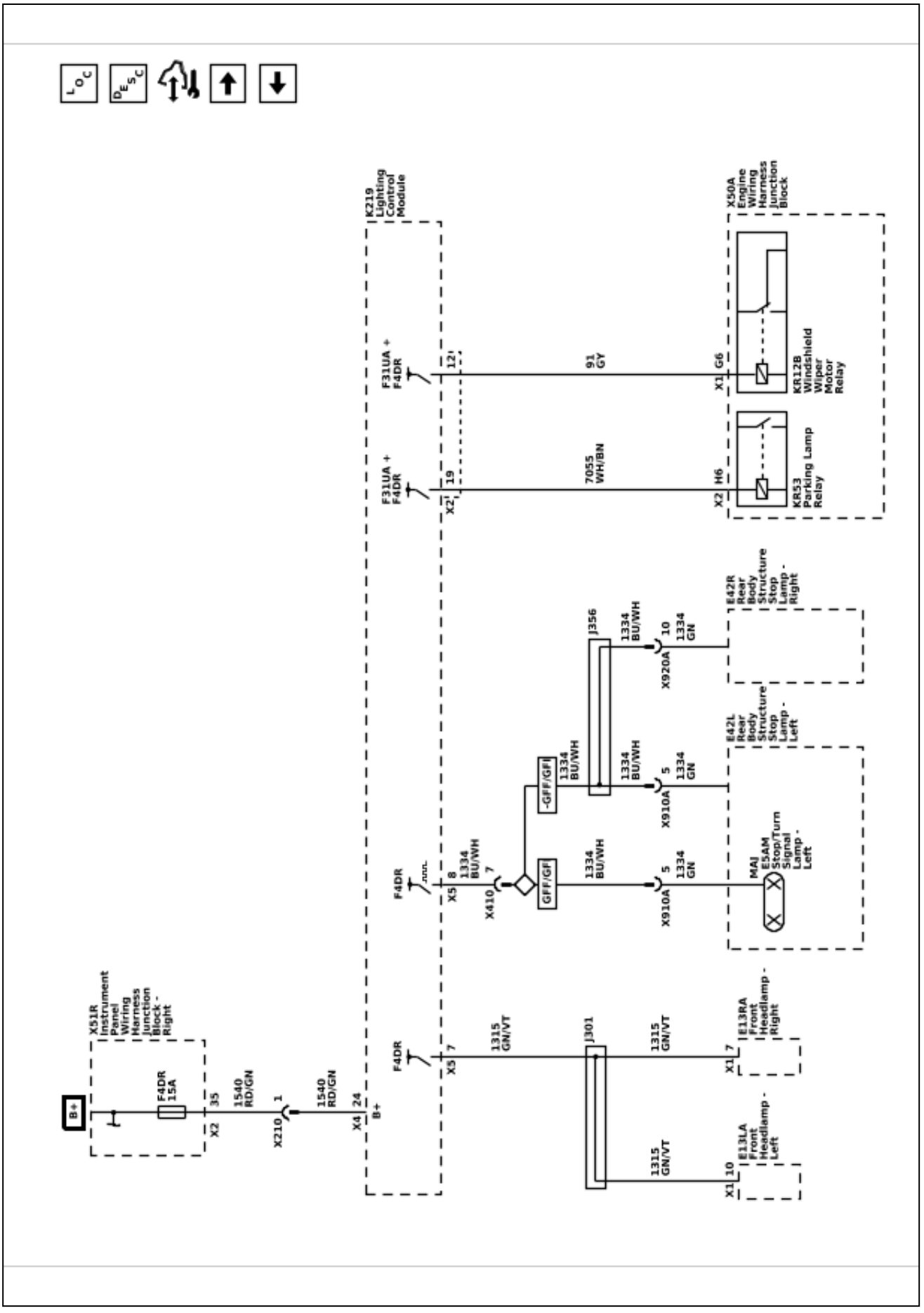
Power Distribution Schematics (Lighting Control Module High Side Drives - F31UA Fuse - 1 of 2)



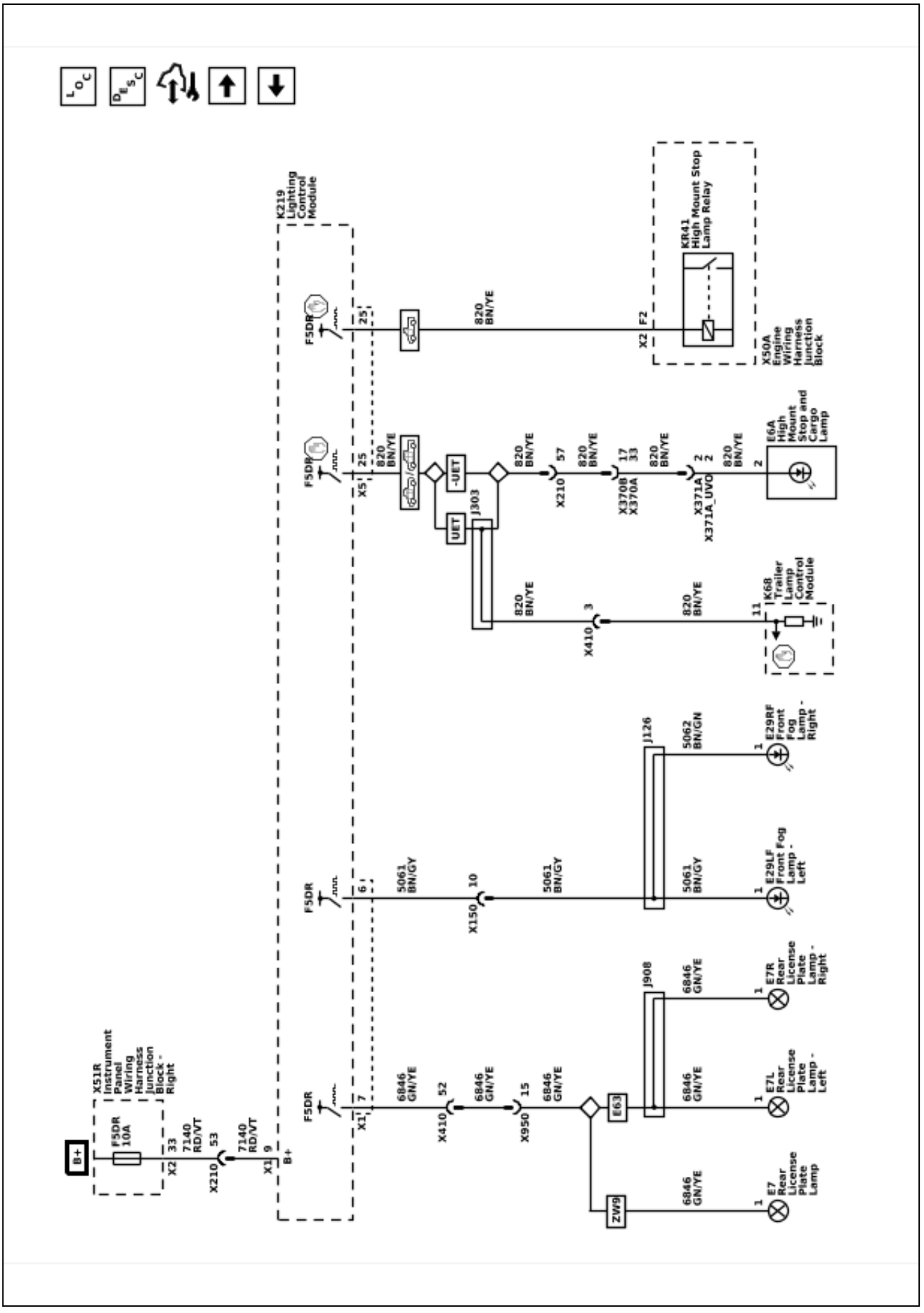
Power Distribution Schematics (Lighting Control Module High Side Drives - F31UA Fuse - 2 of 2)



Power Distribution Schematics (Lighting Control Module High Side Drives - F4DR Fuse)

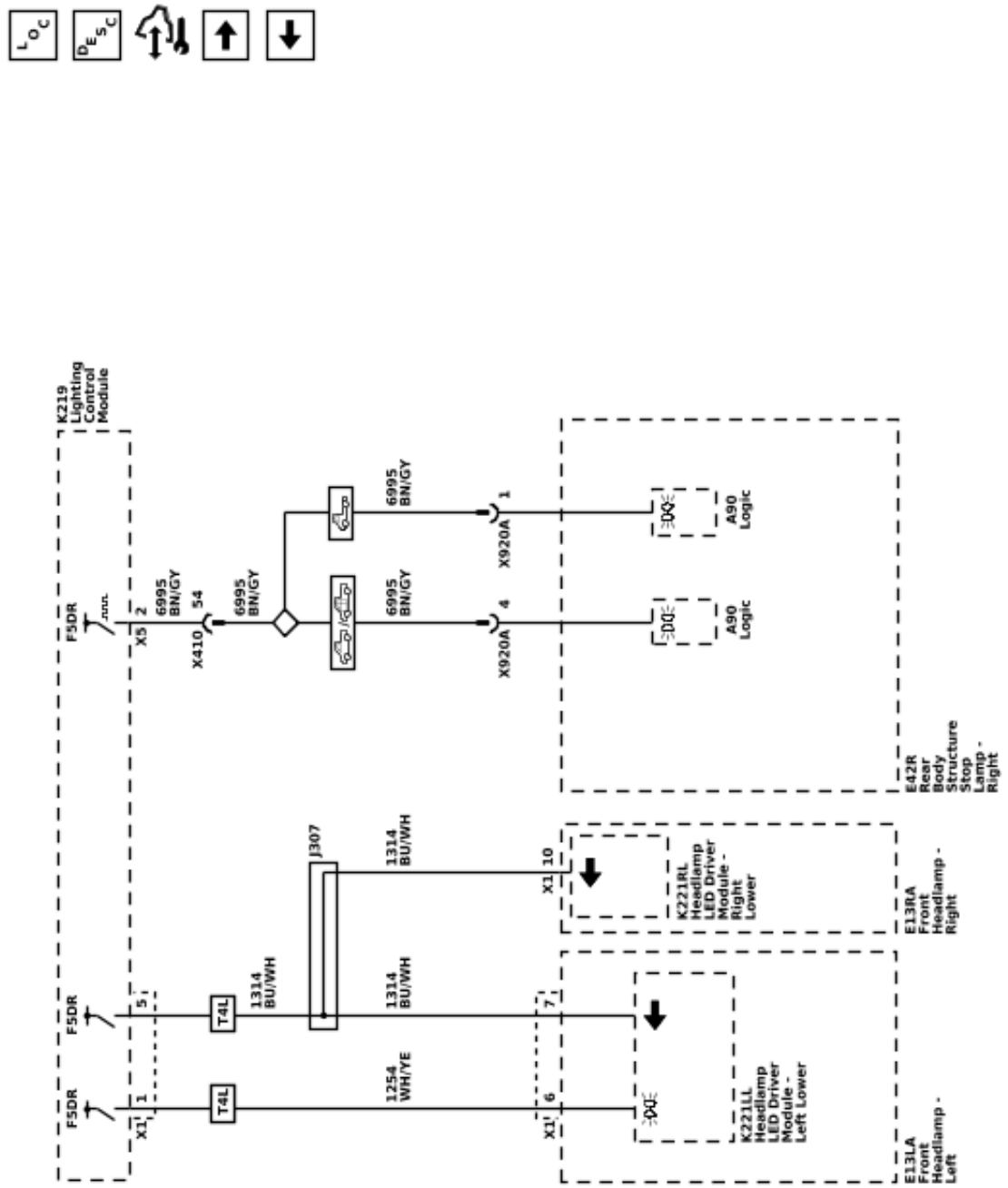


Power Distribution Schematics (Lighting Control Module High Side Drives - F5DR Fuse - 1 of 2)

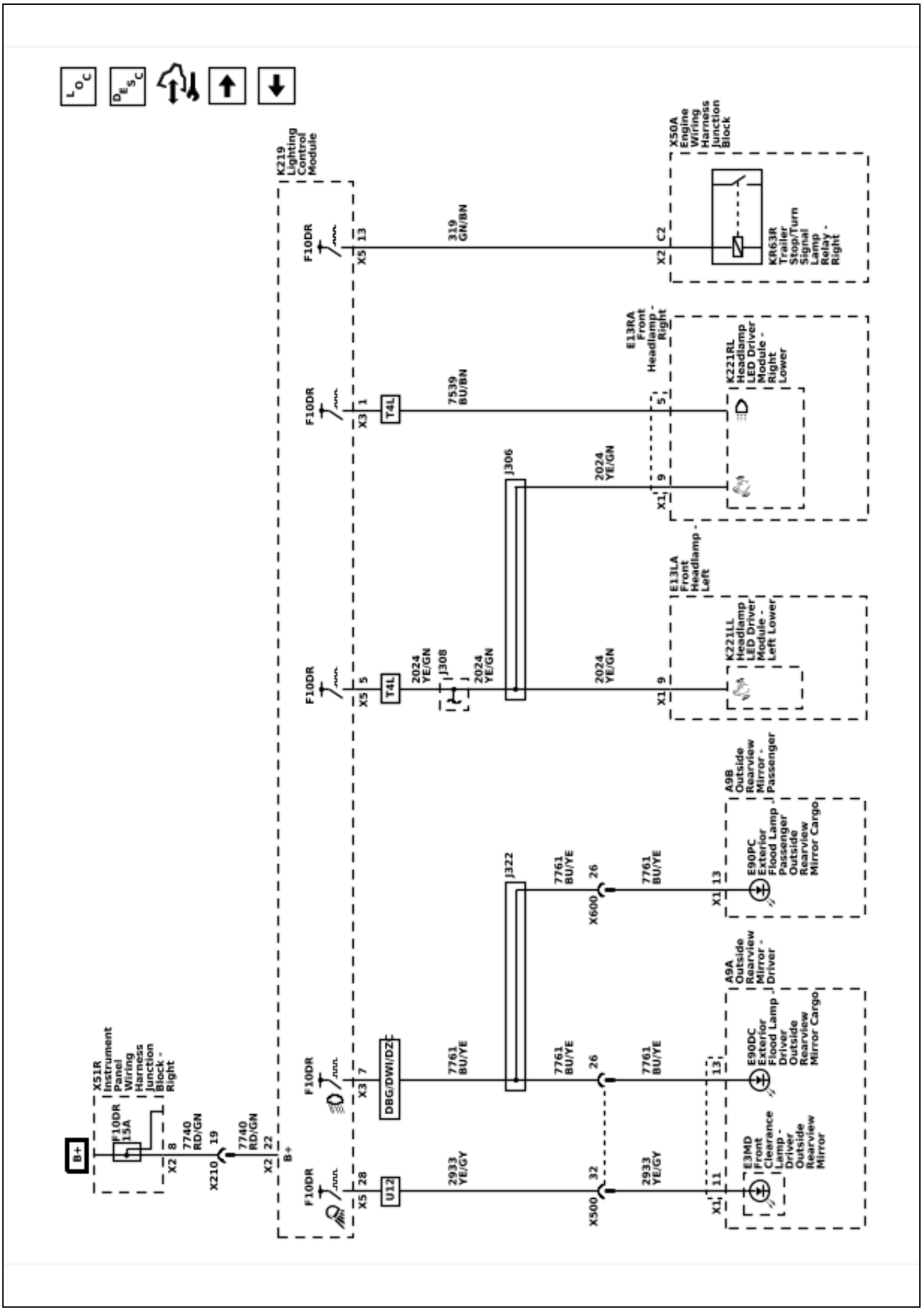


6530410

Power Distribution Schematics (Lighting Control Module High Side Drives - F5DR Fuse - 2 of 2)

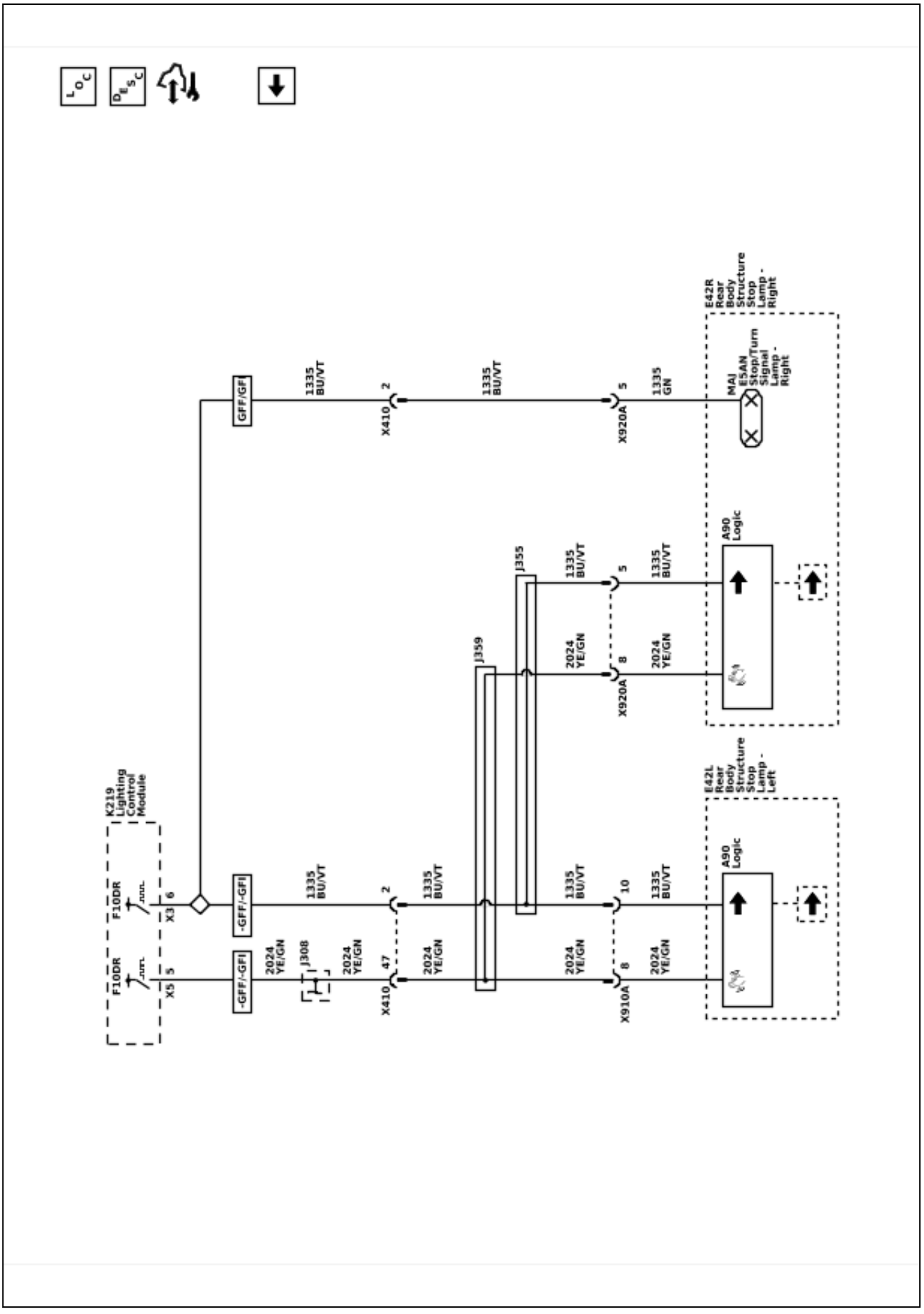


Power Distribution Schematics (Lighting Control Module High Side Drives - F10DR Fuse - 1 of 2)

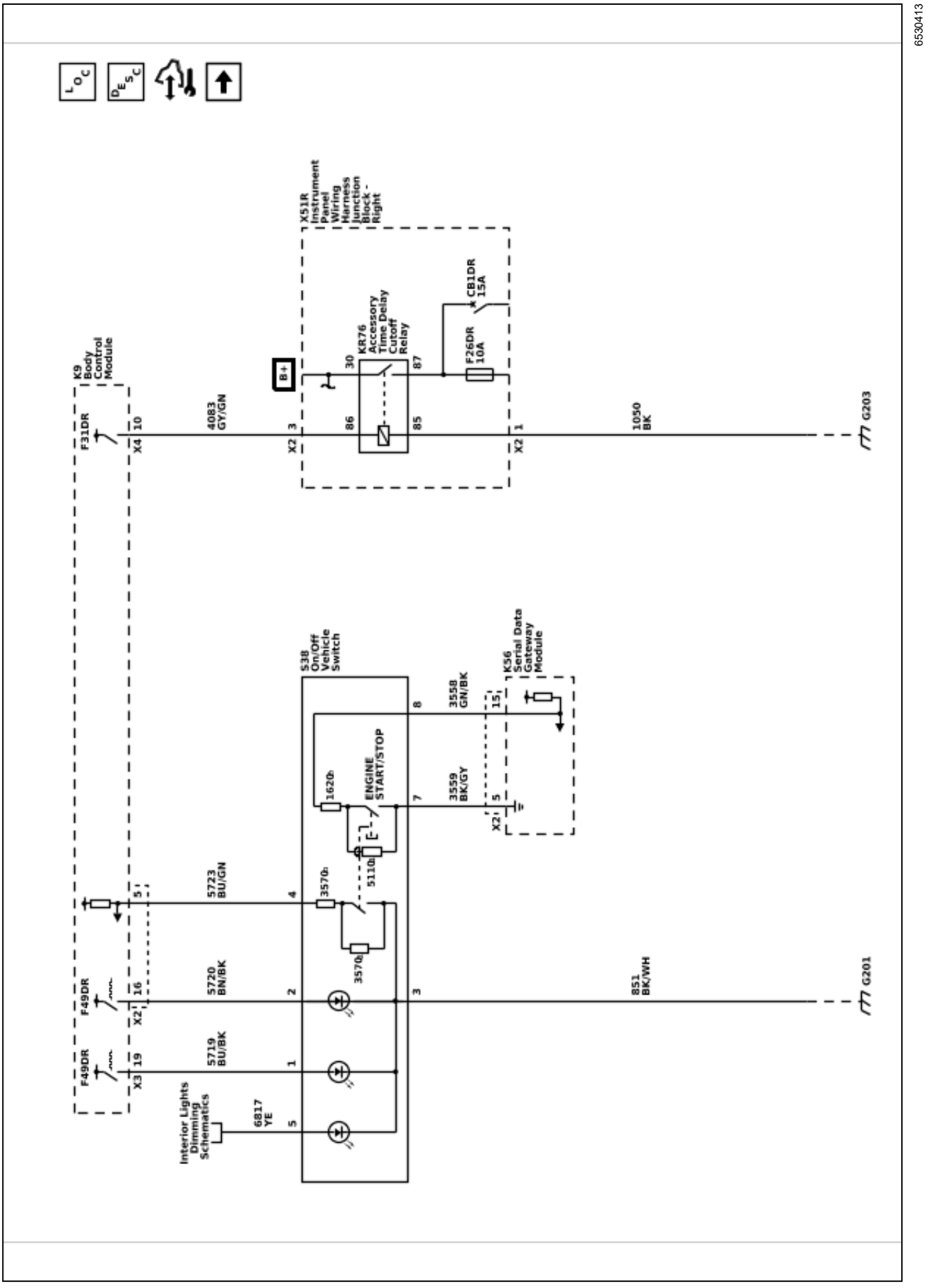


6530412

Power Distribution Schematics (Lighting Control Module High Side Drives - F10DR Fuse - 2 of 2)

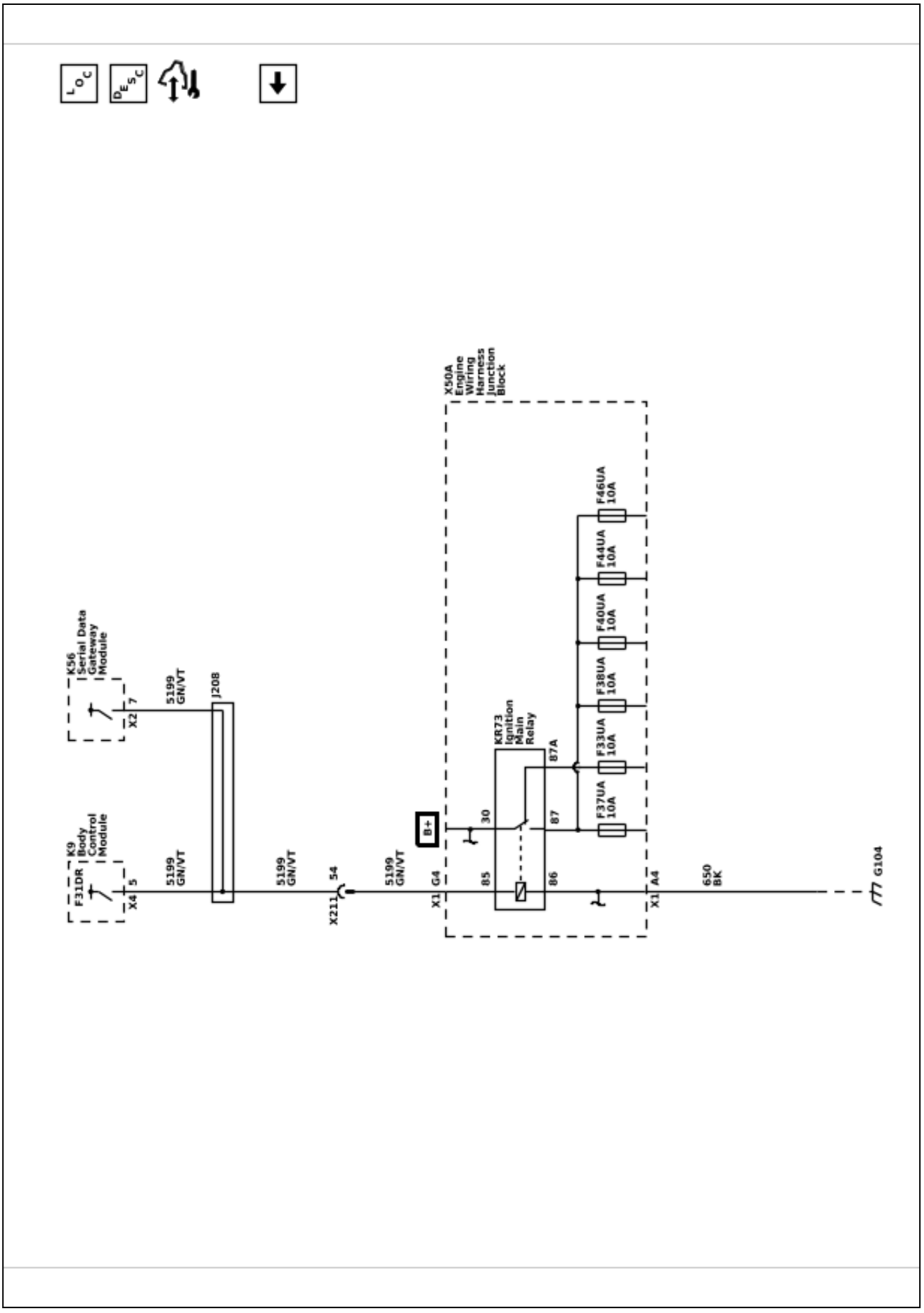


Power Moding Schematics (On/Off Vehicle Switch and Retained Accessory Power)

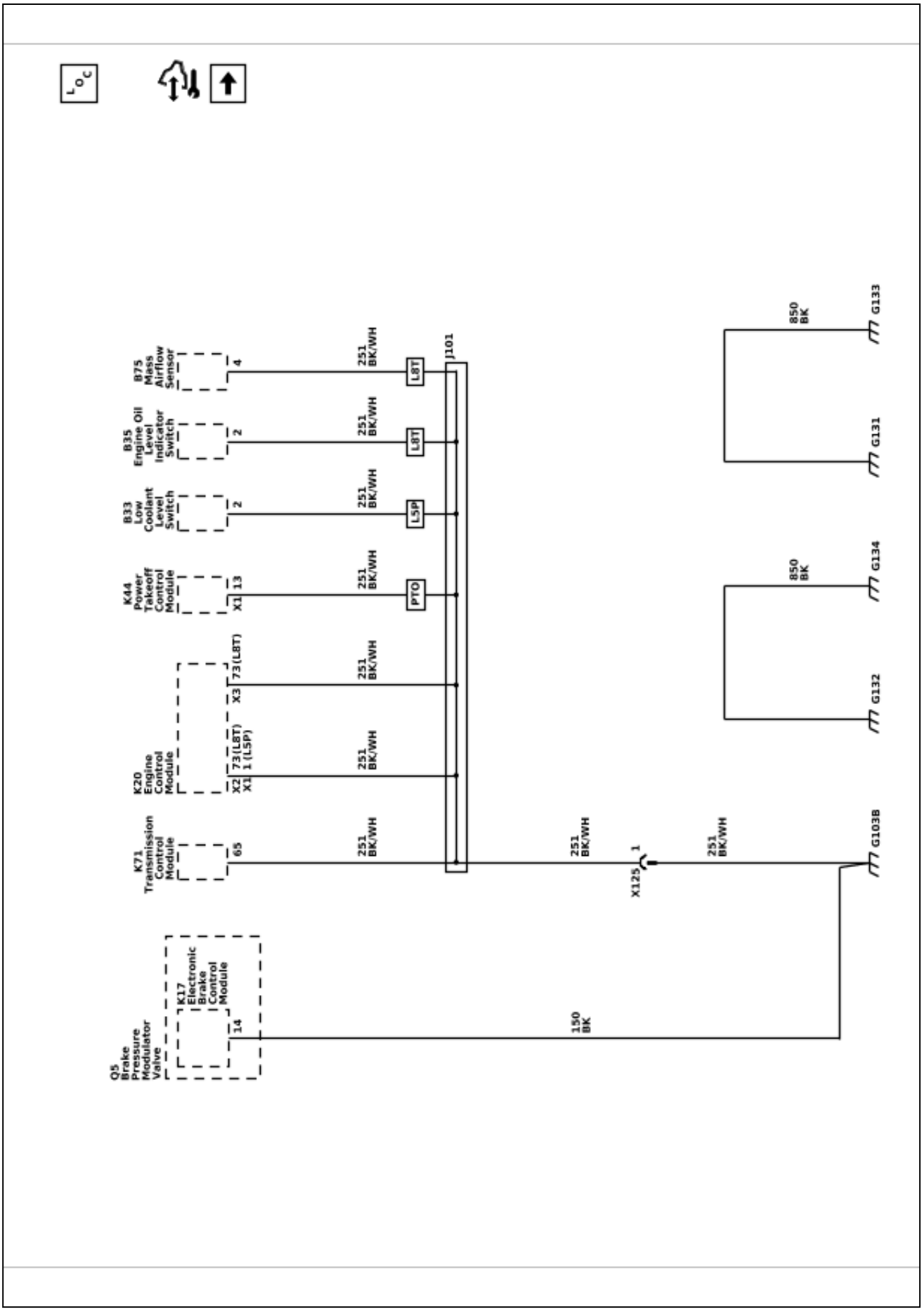


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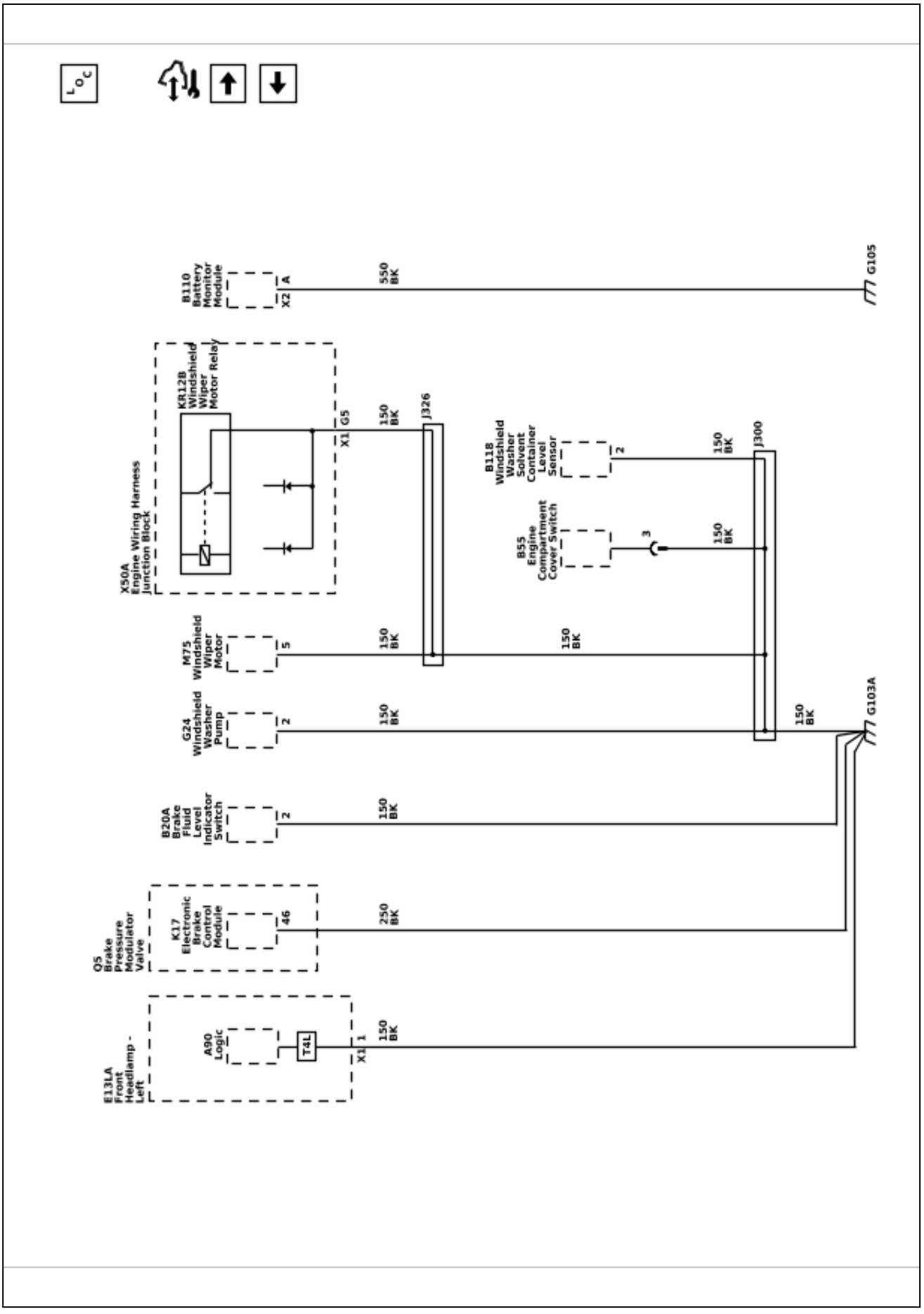
Power Moding Schematics (Ignition Main Relay)



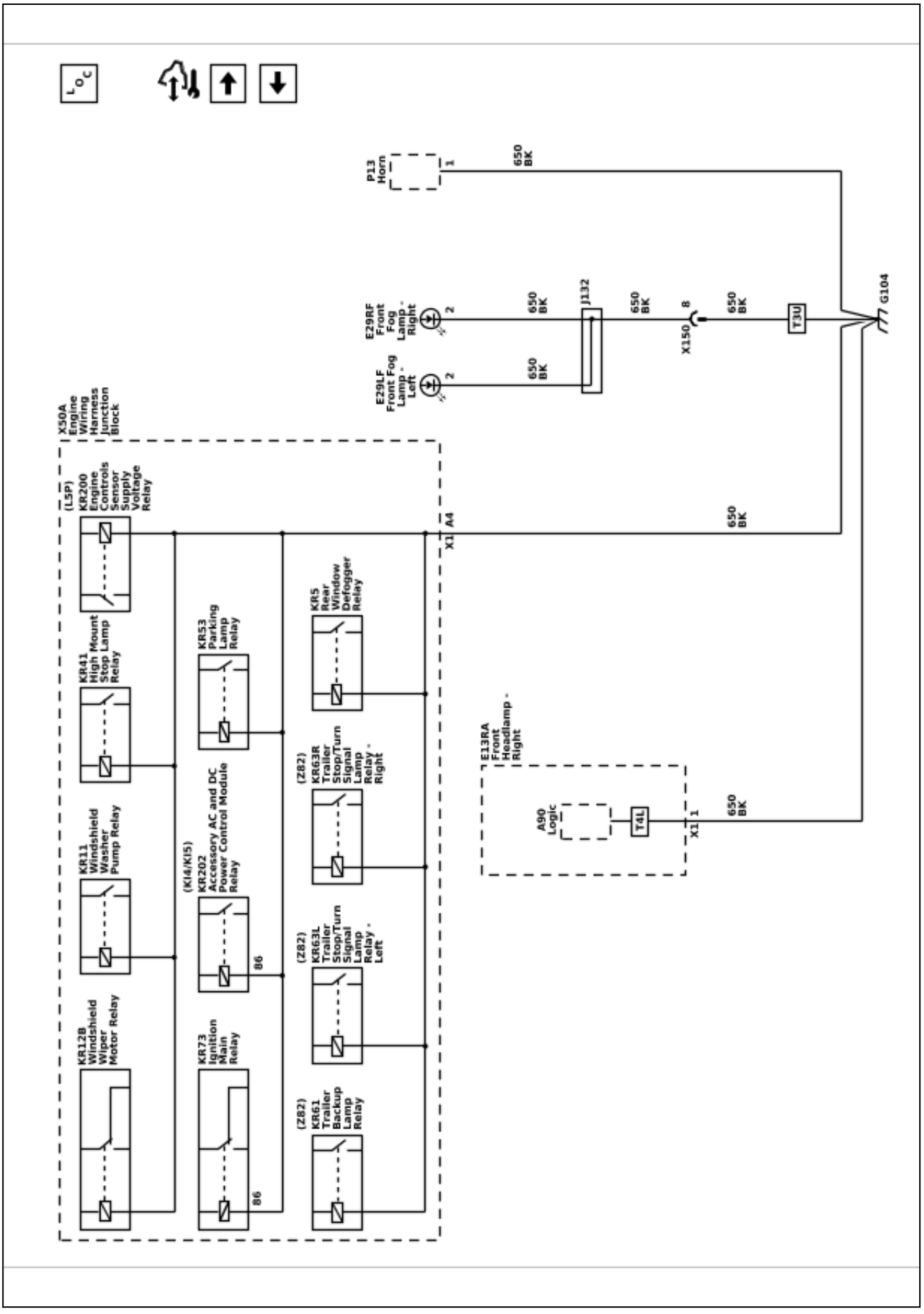
Ground Distribution Schematics (G103B, G131, G132, G133, and G134)



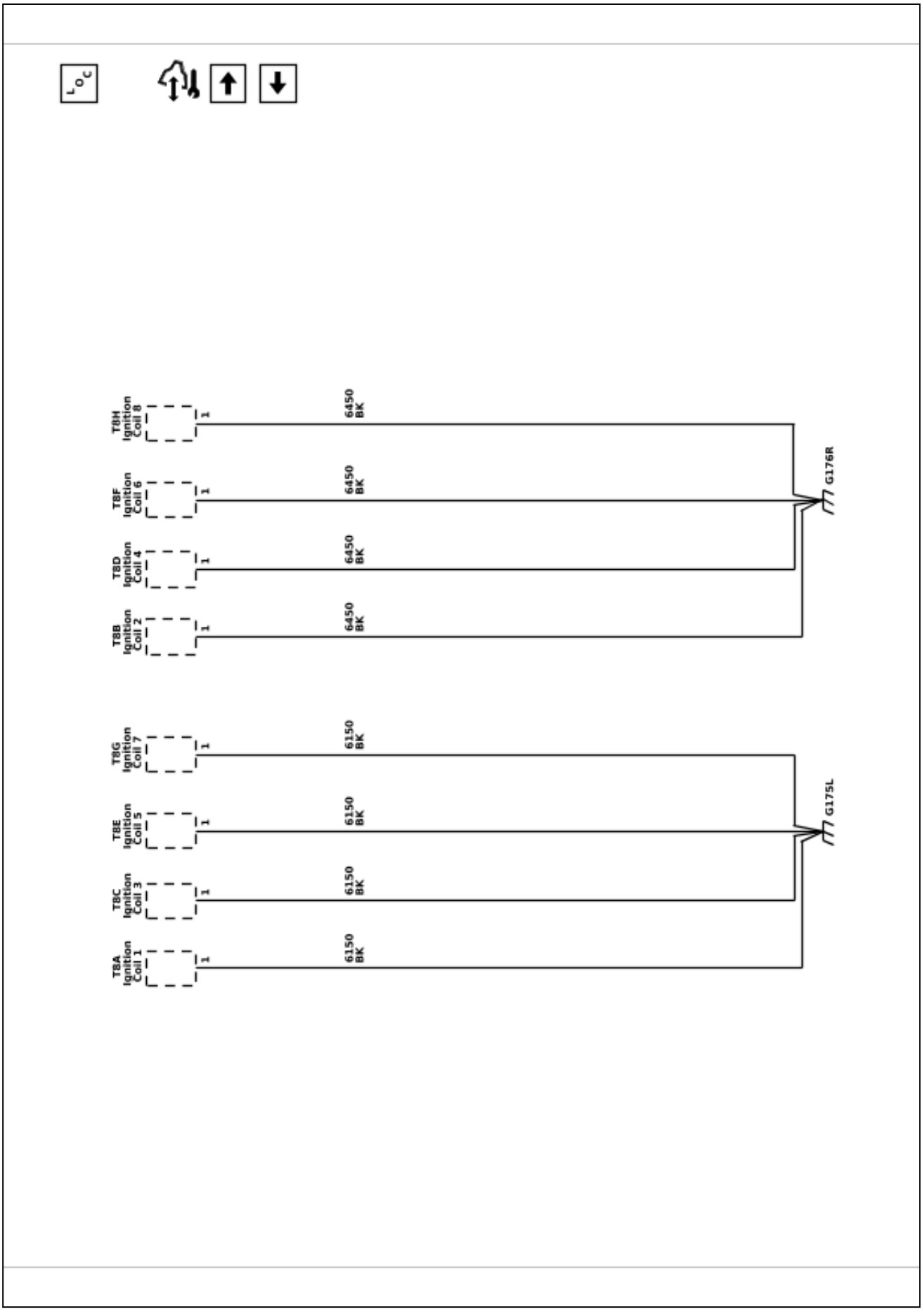
Ground Distribution Schematics (G103A and G105)



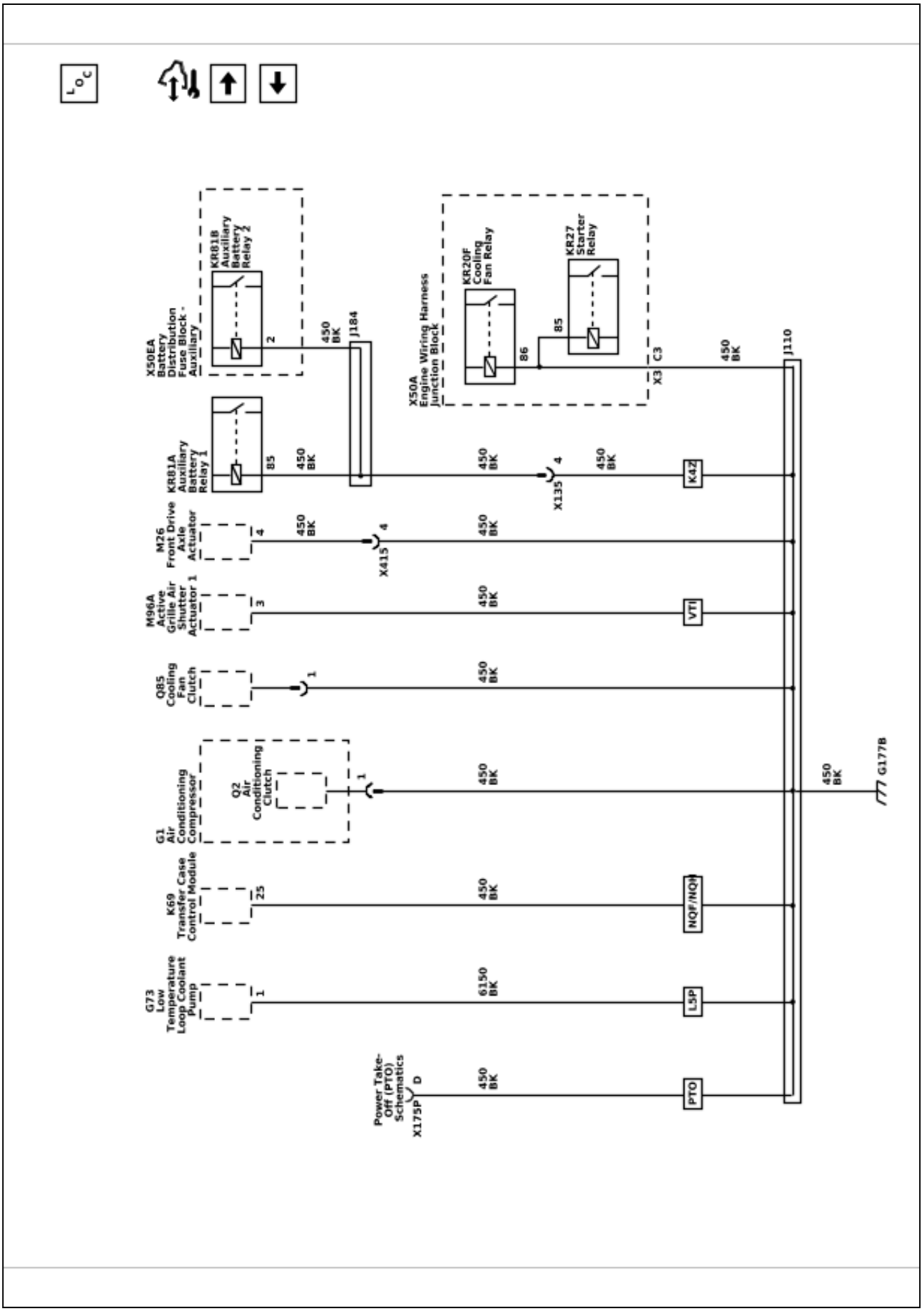
Ground Distribution Schematics (G104)



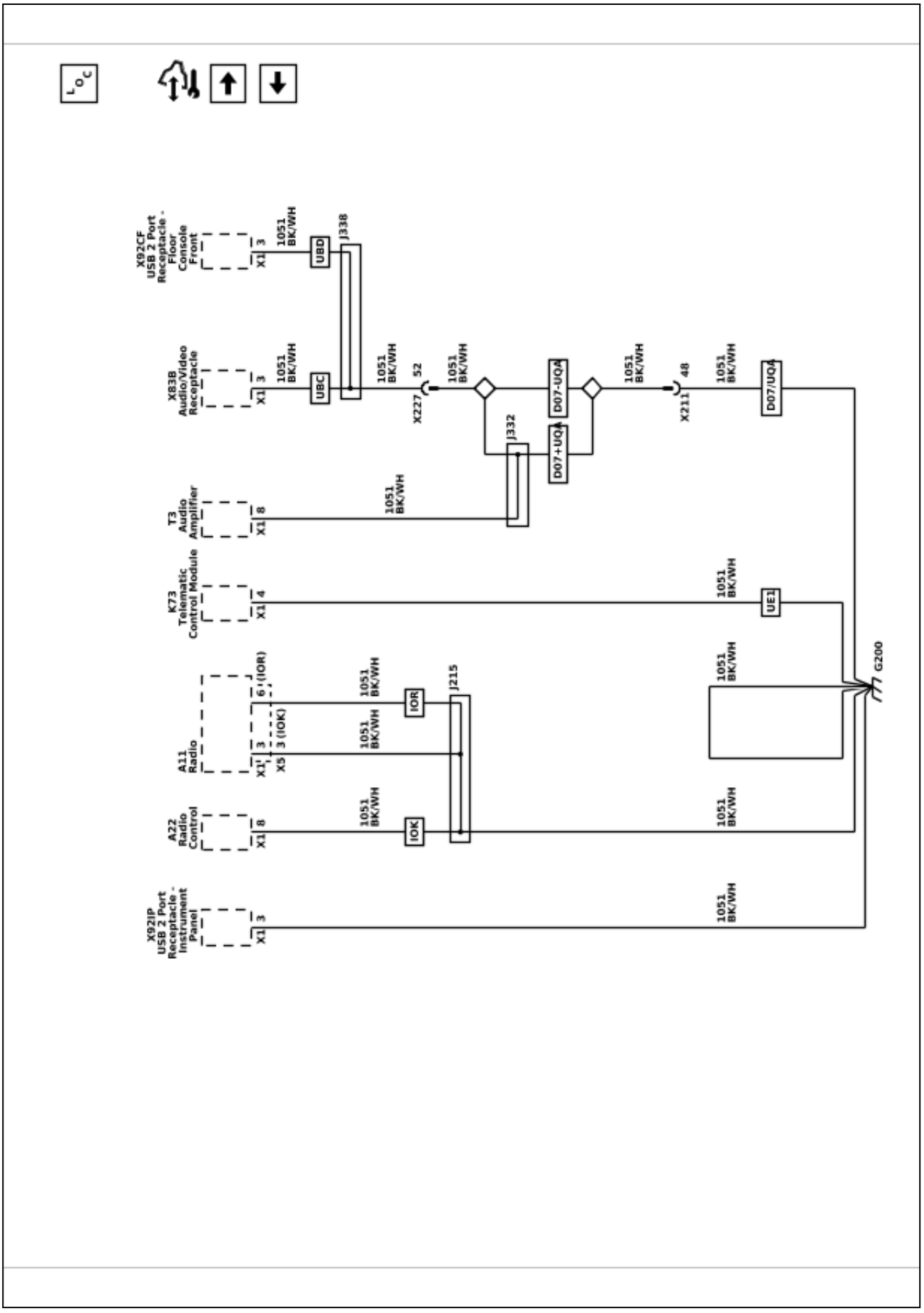
Ground Distribution Schematics (G175L and G175R)



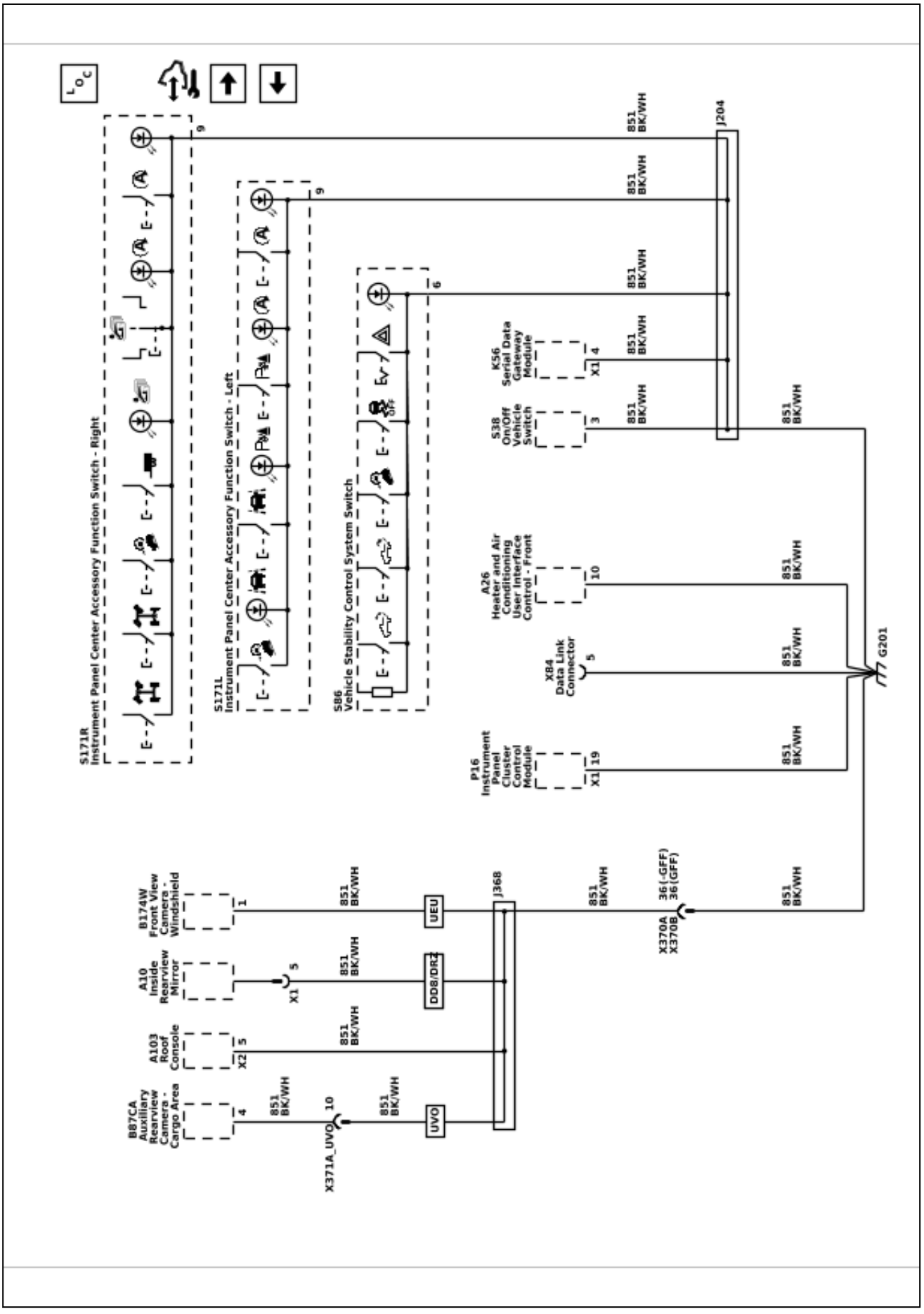
Ground Distribution Schematics (G177B)



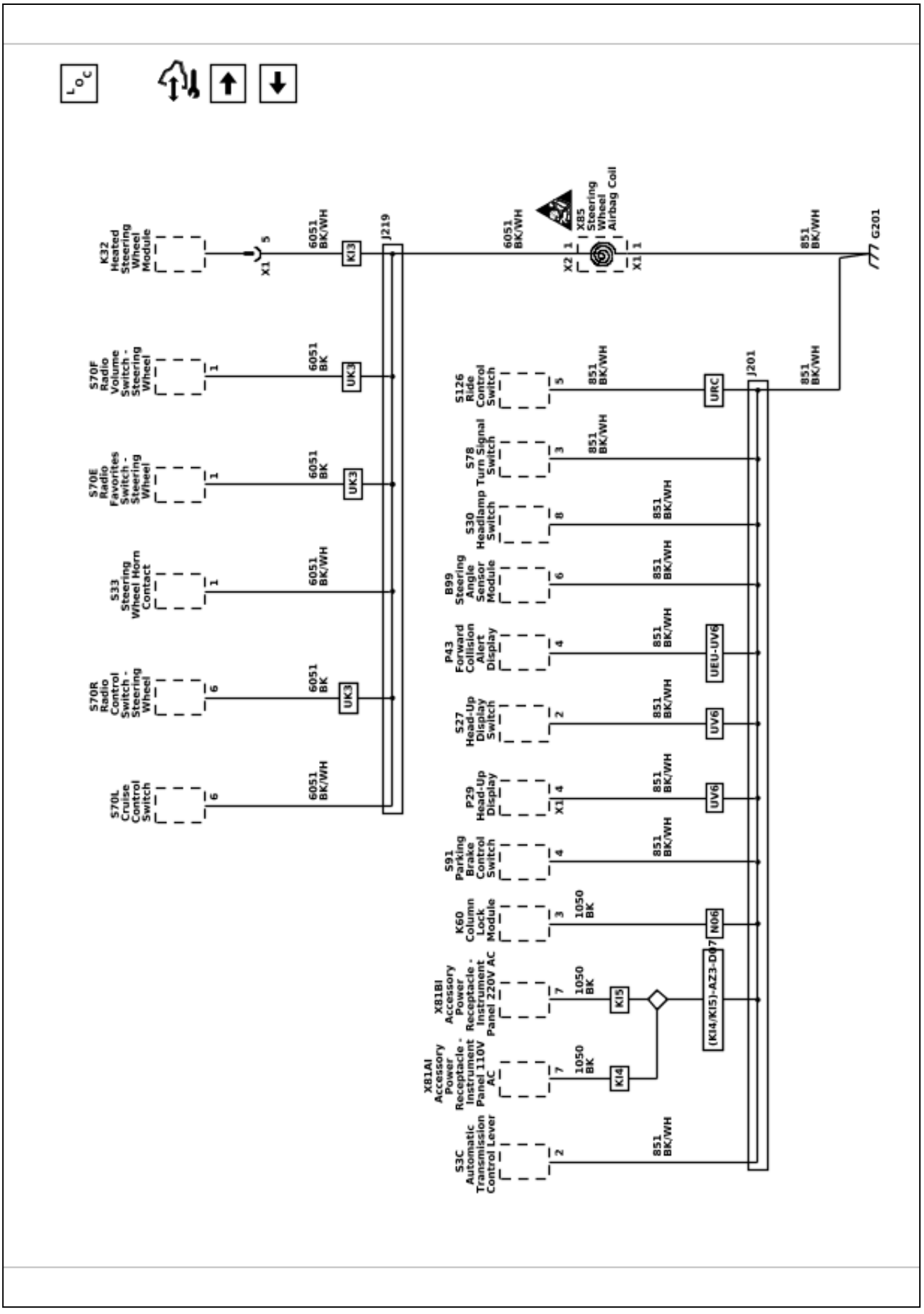
Ground Distribution Schematics (G200)



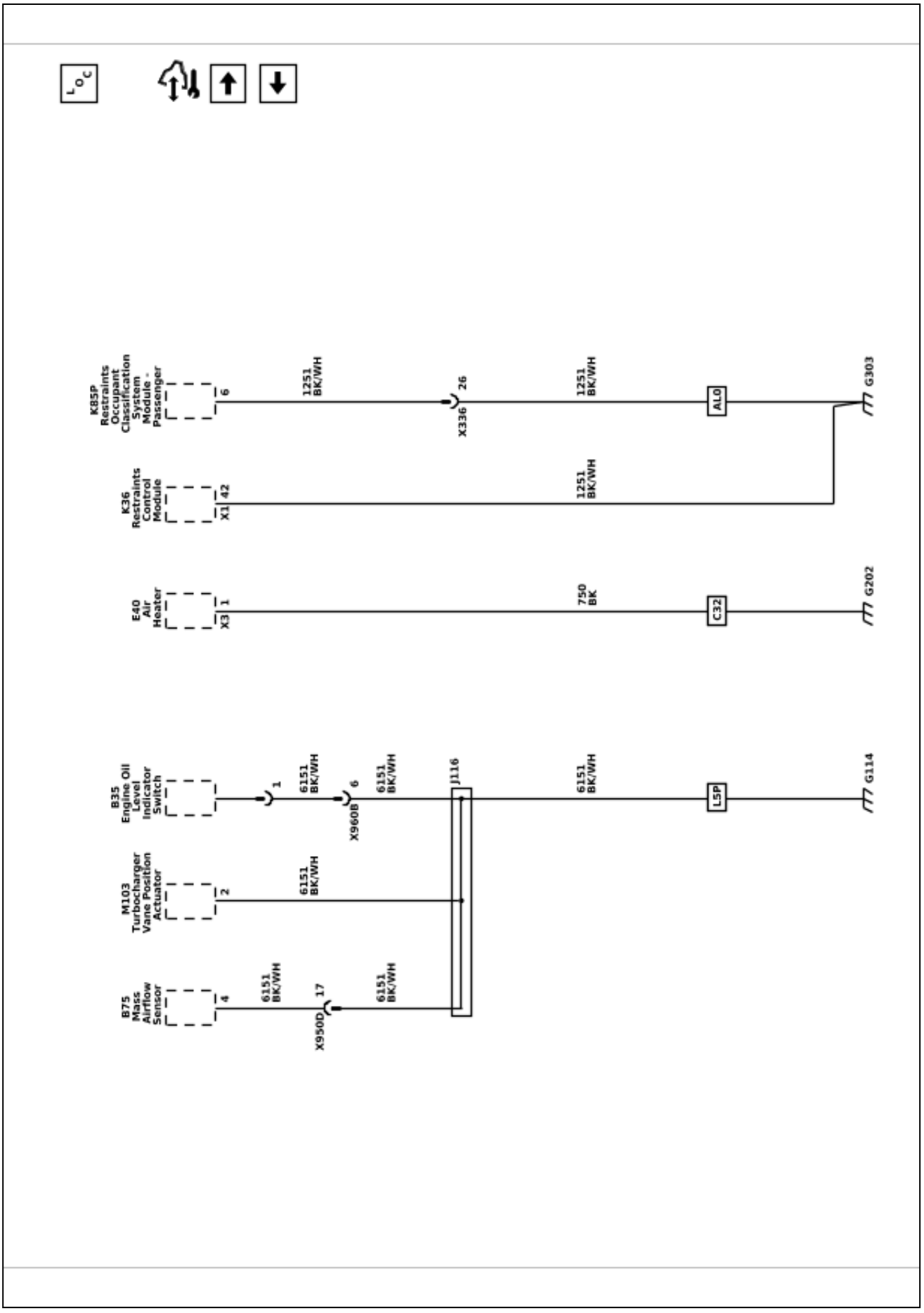
Ground Distribution Schematics (G201 - 1 of 2)



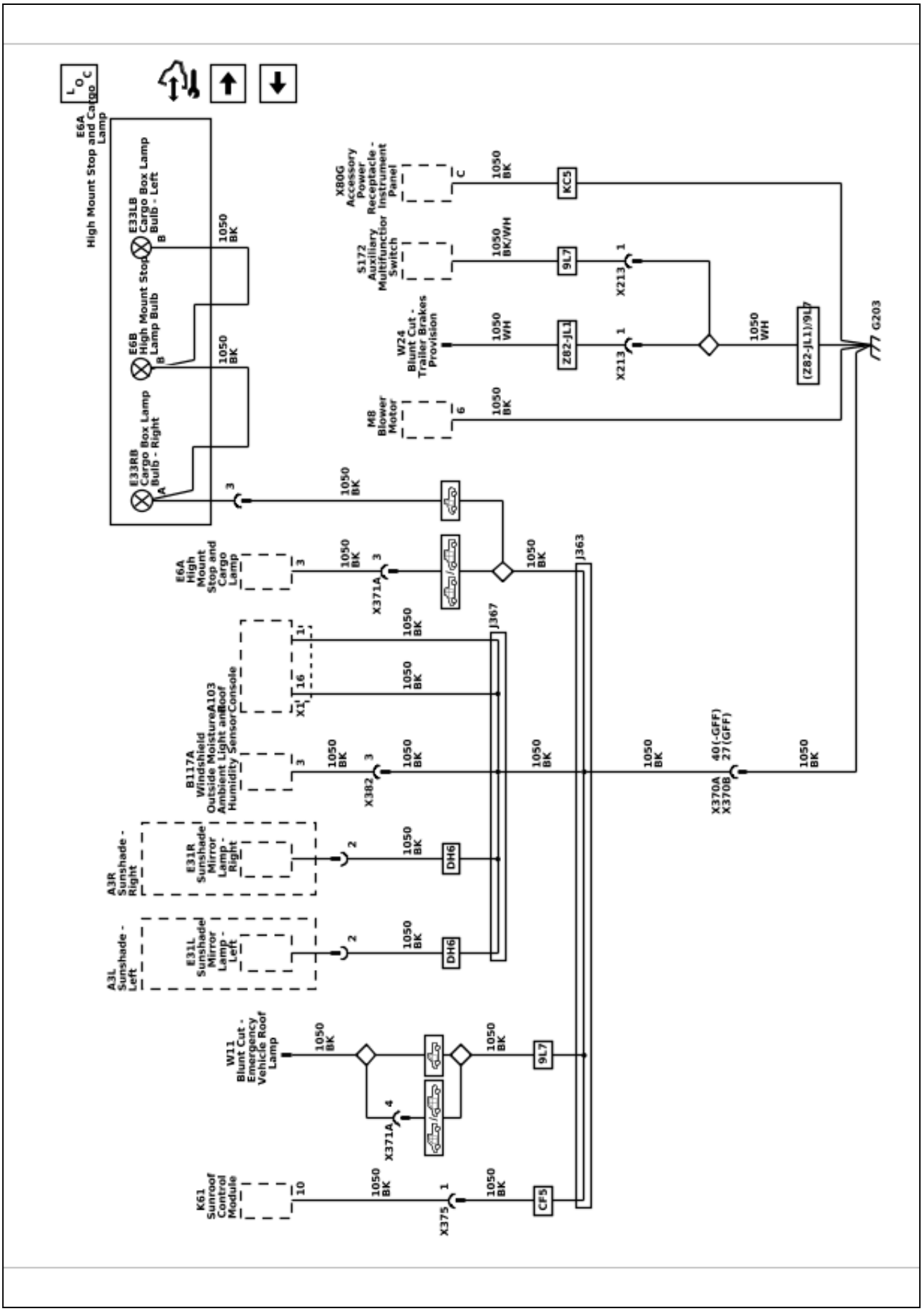
Ground Distribution Schematics (G201 - 2 of 2)



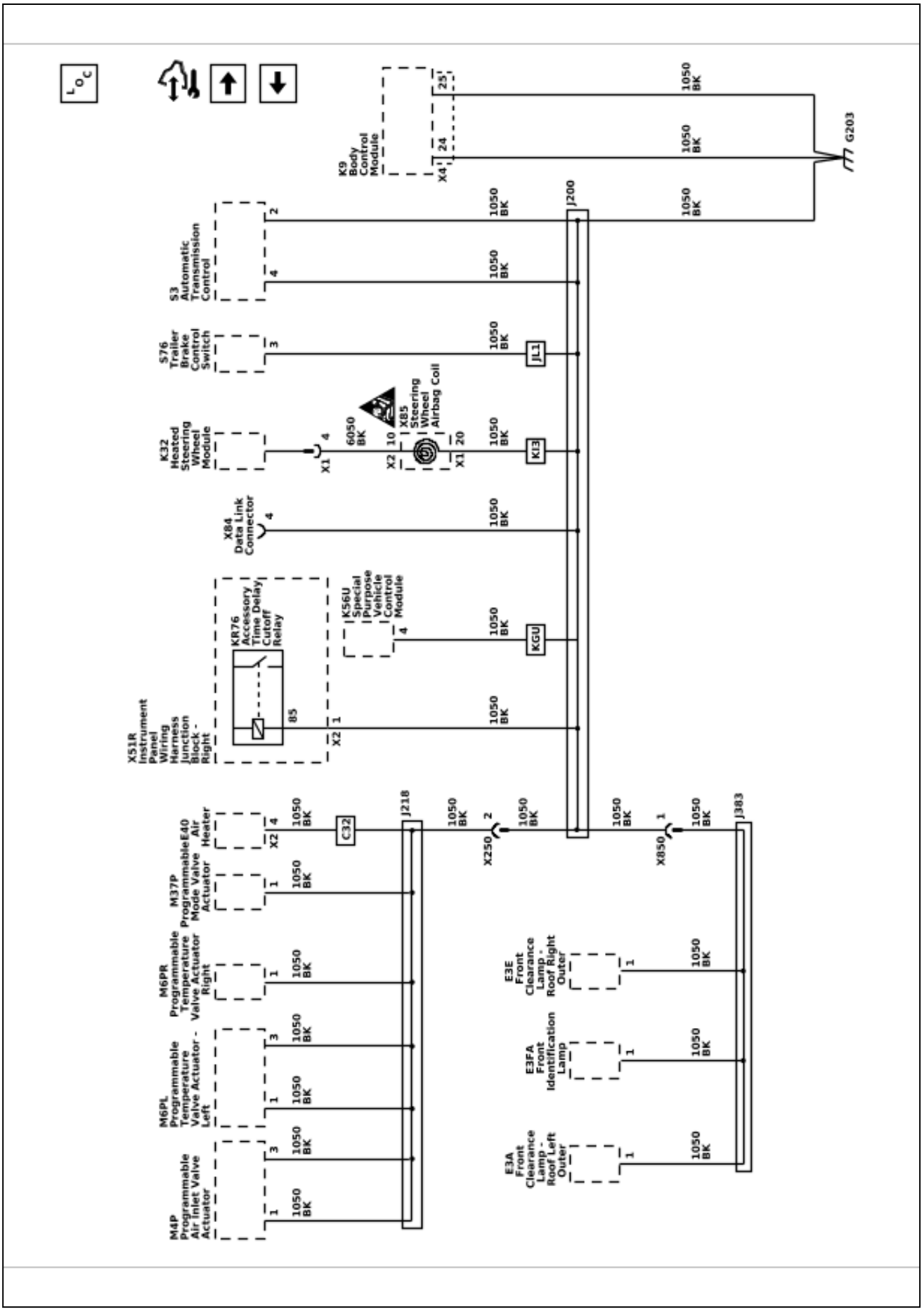
Ground Distribution Schematics (G202, G303, and G114)



Ground Distribution Schematics (G203 - 1 of 2)



Ground Distribution Schematics (G203 - 2 of 2)

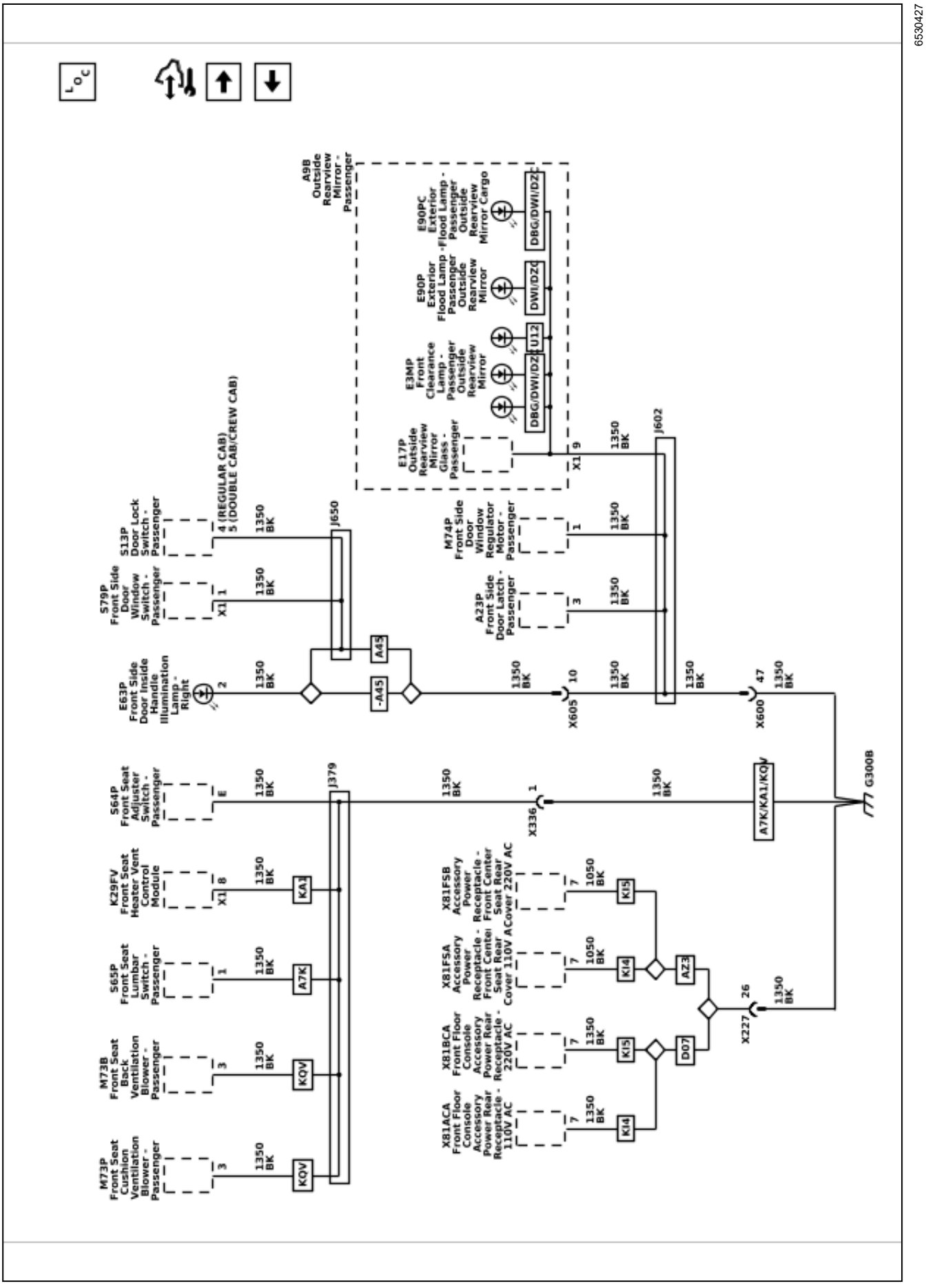


Ground Distribution Schematics (G300A)

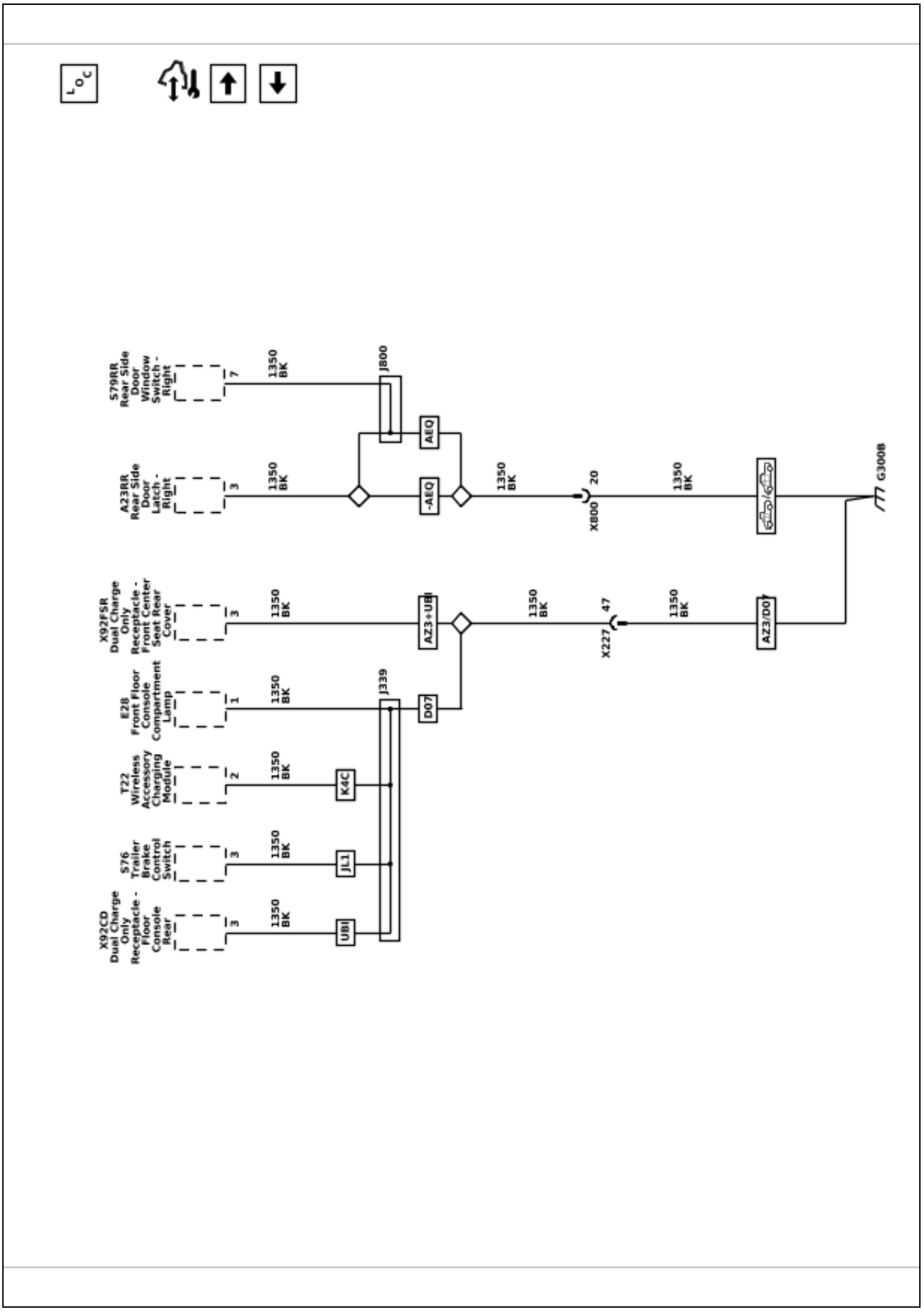
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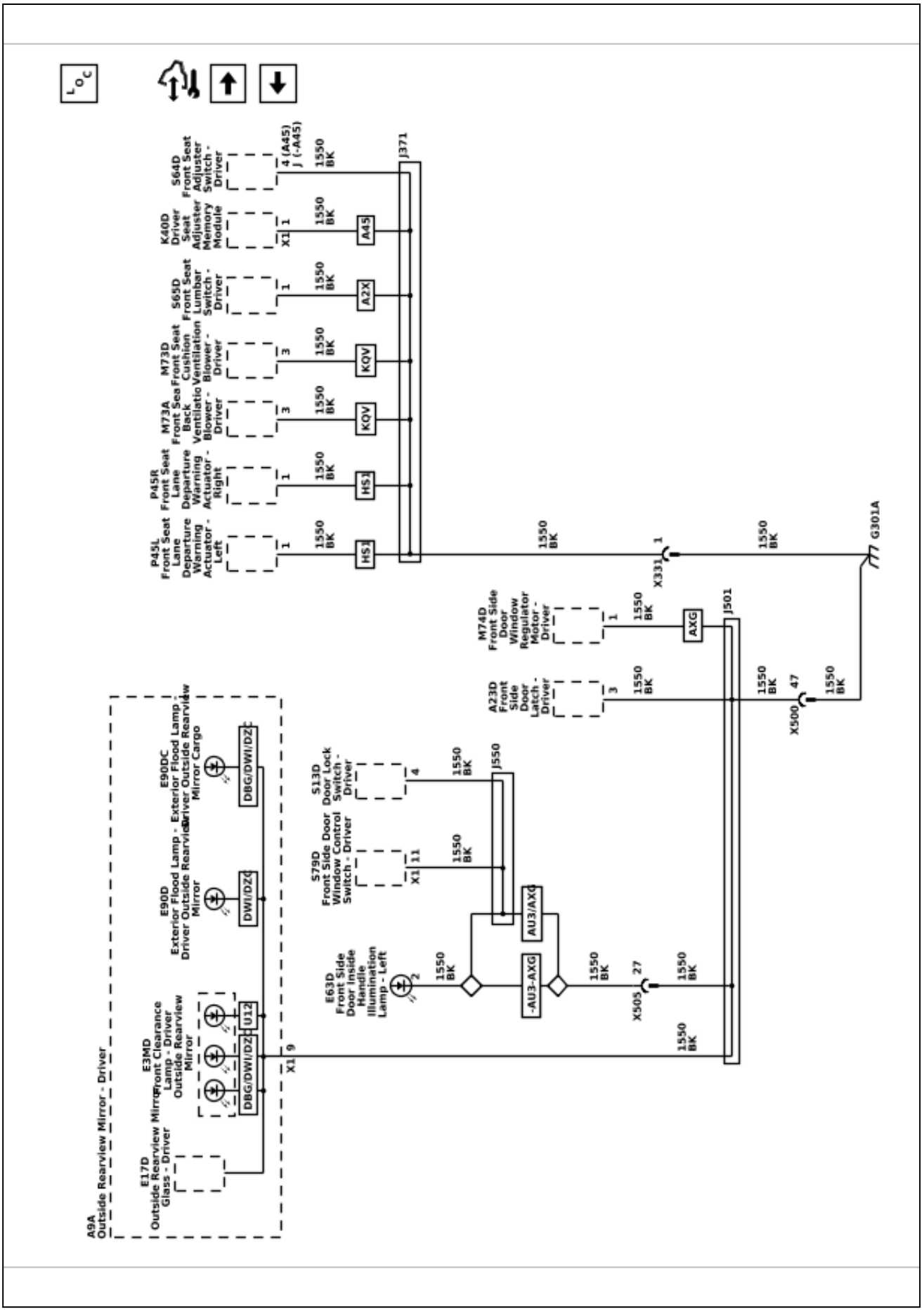
Ground Distribution Schematics (G300B - 1 of 2)



Ground Distribution Schematics (G300B - 2 of 2)

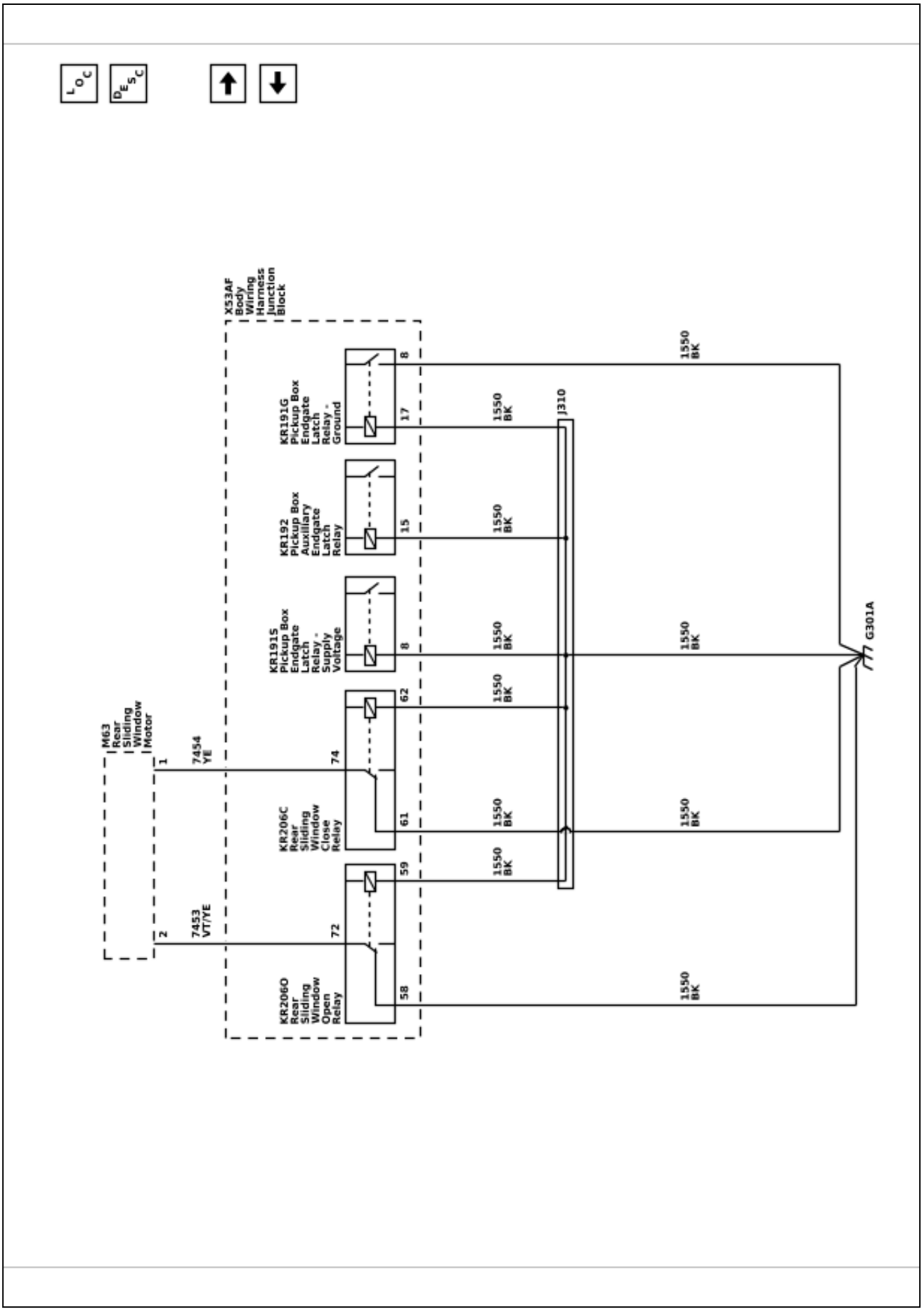


Ground Distribution Schematics (G301A - Regular Cab - 1 of 2)

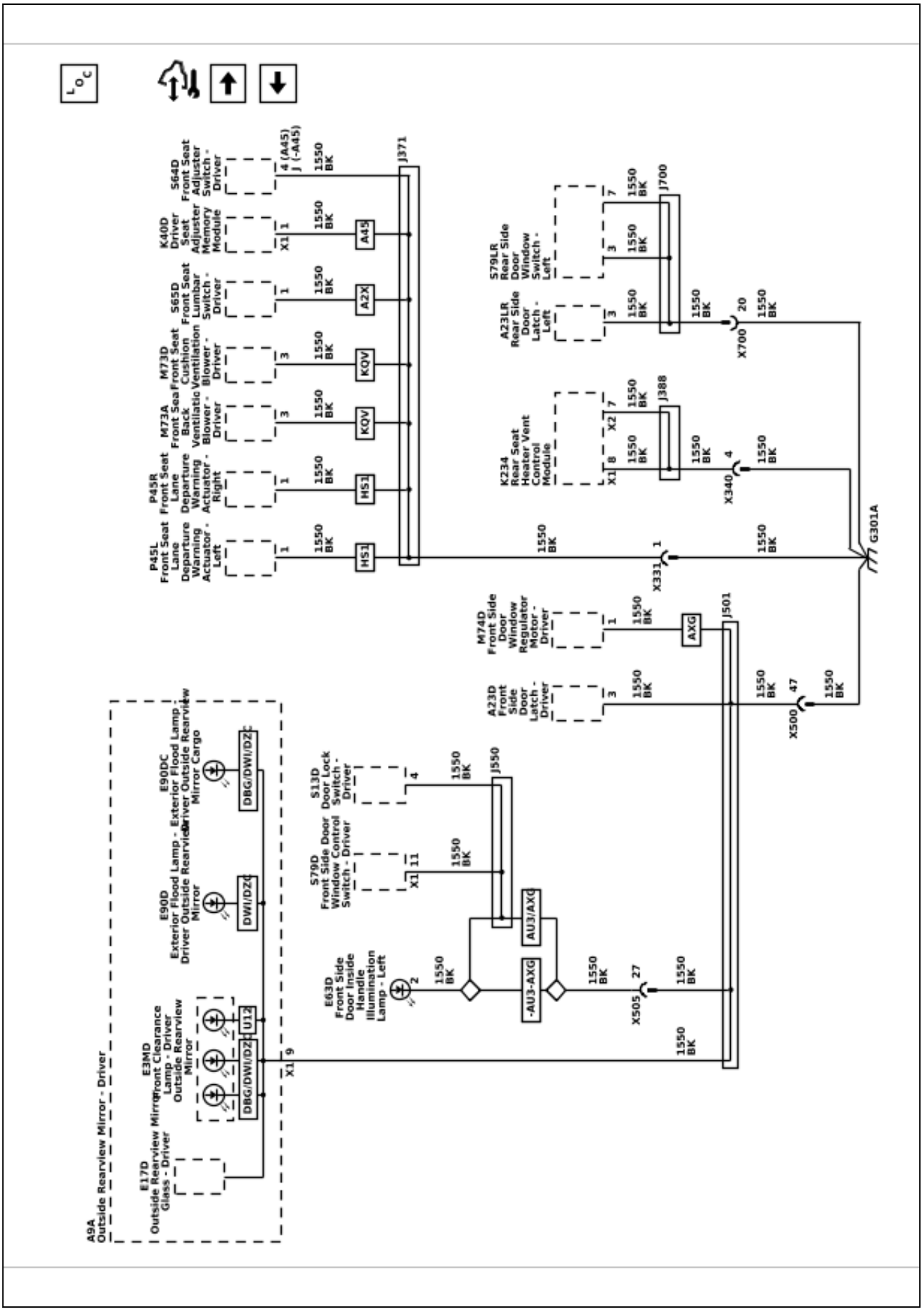


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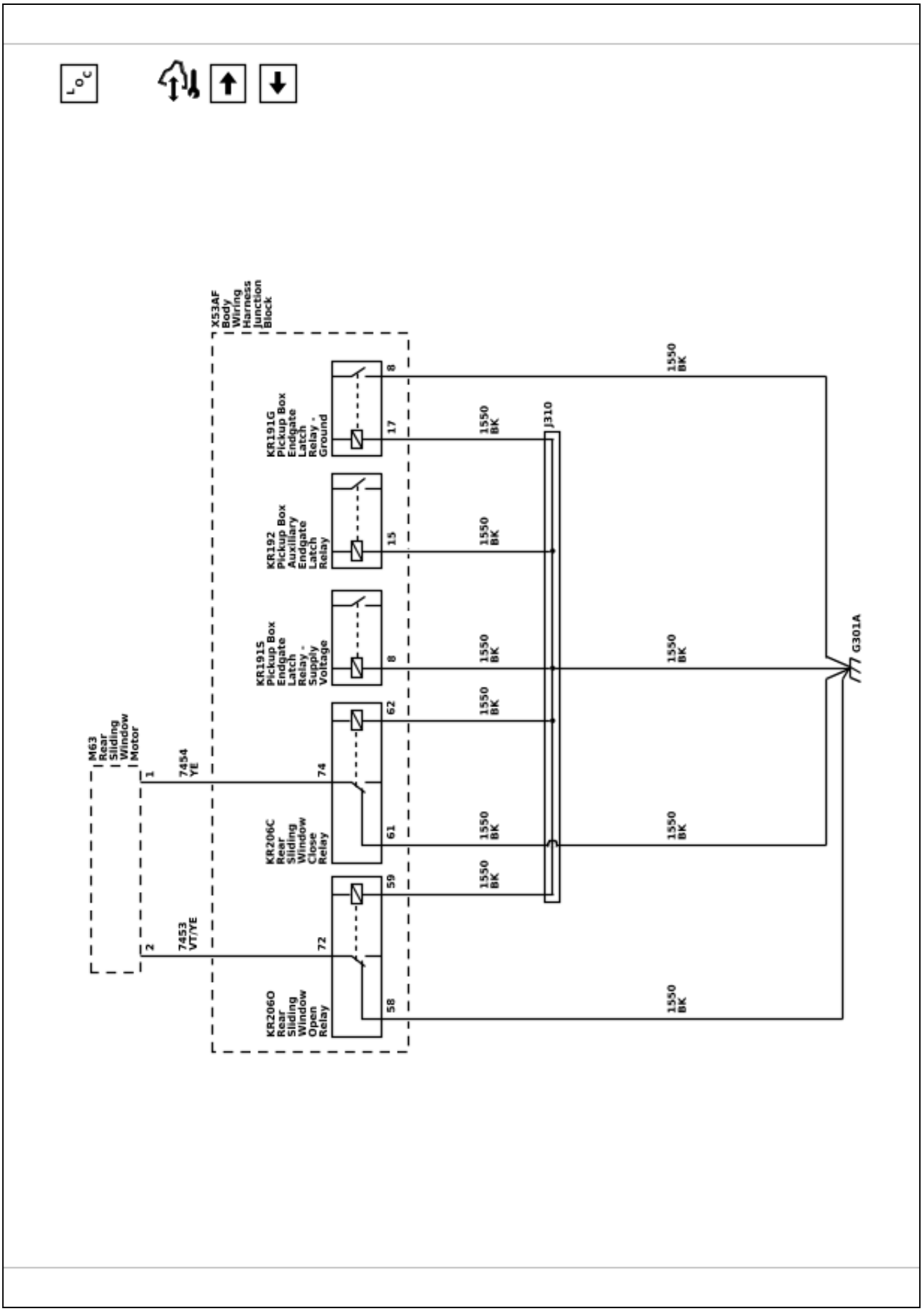
Ground Distribution Schematics (G301A - Regular Cab - 2 of 2)



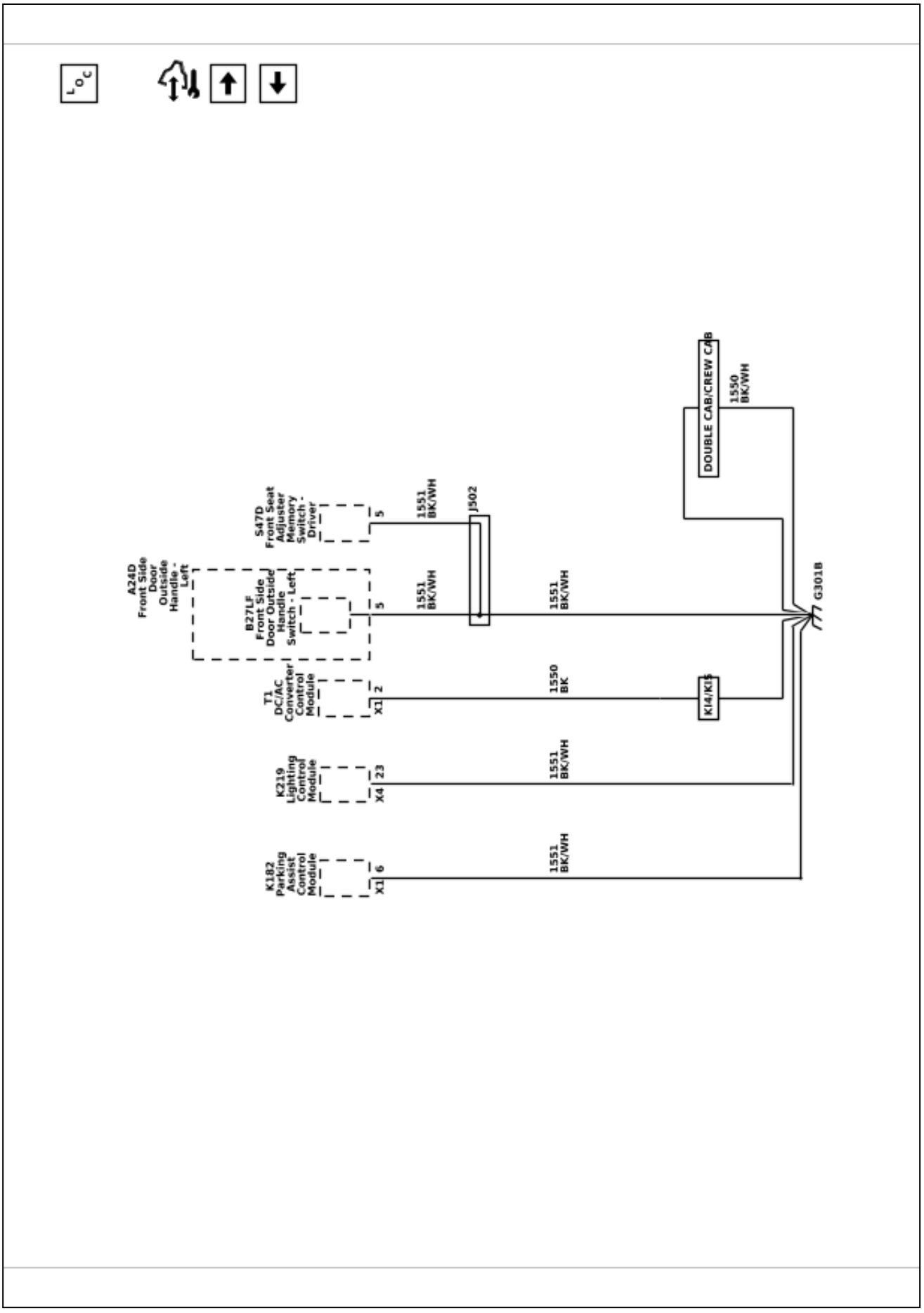
Ground Distribution Schematics (G301A - Double Cab/Crew Cab - 1 of 2)



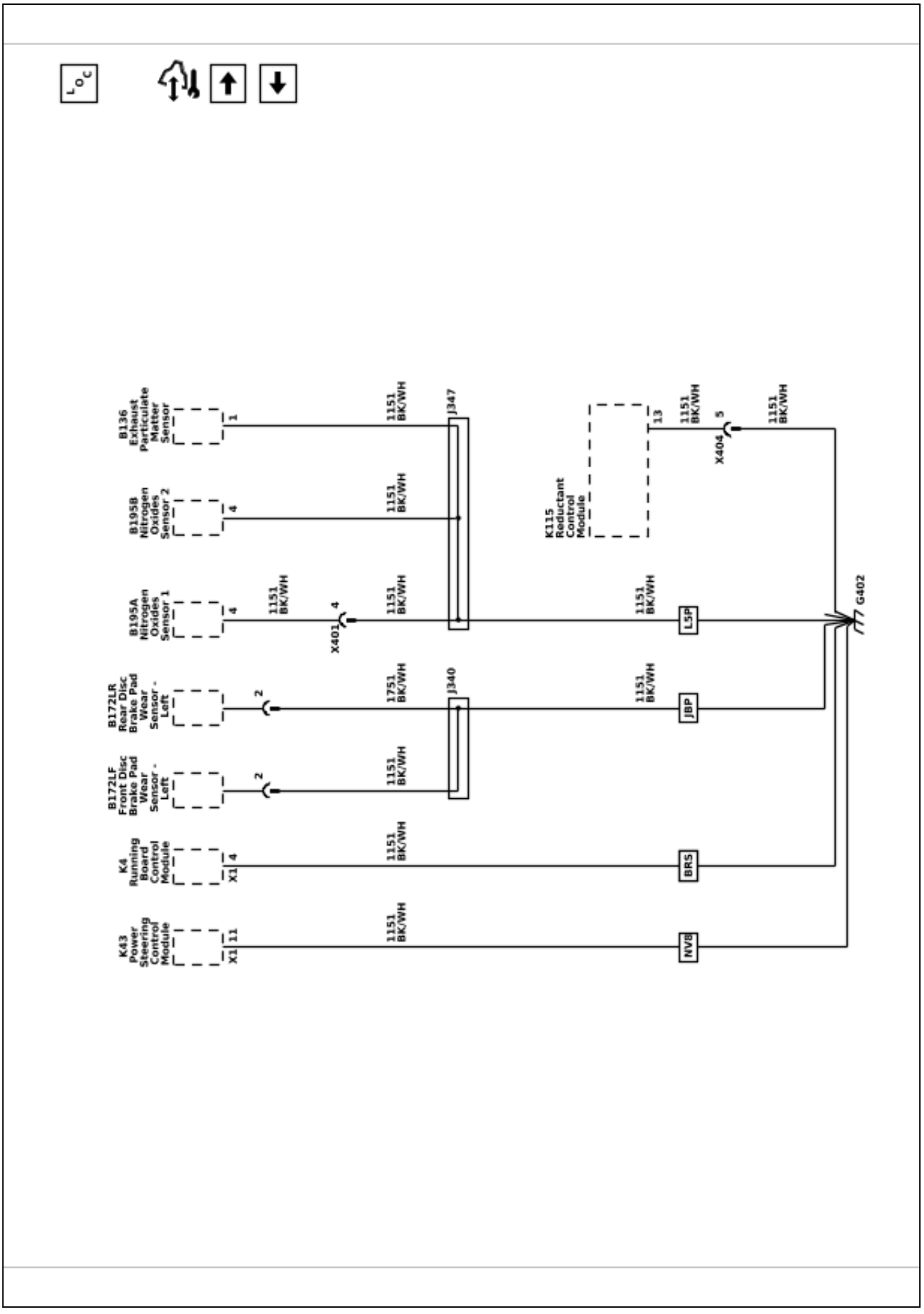
Ground Distribution Schematics (G301A - Double Cab/Crew Cab - 2 of 2)



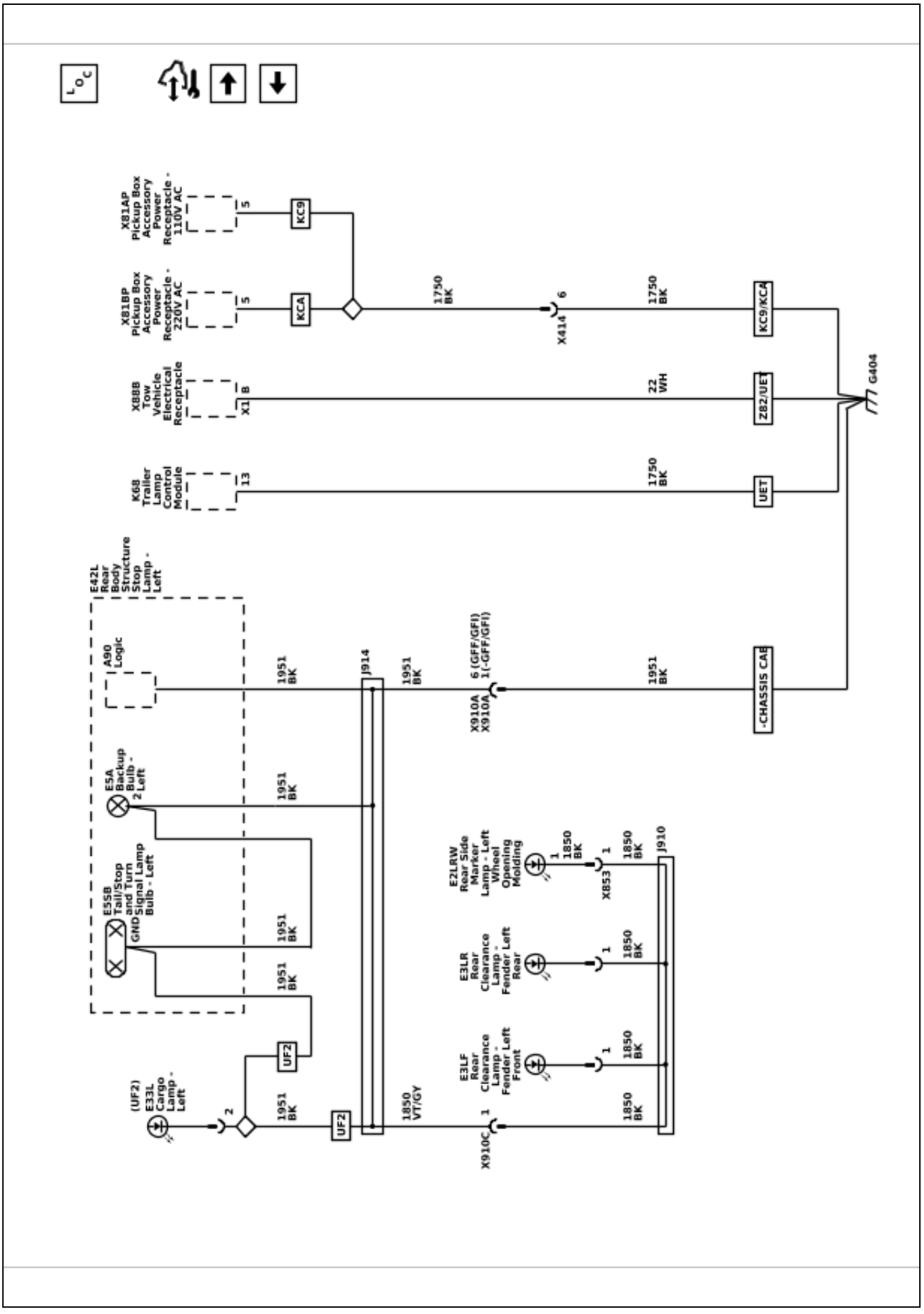
Ground Distribution Schematics (G301B)



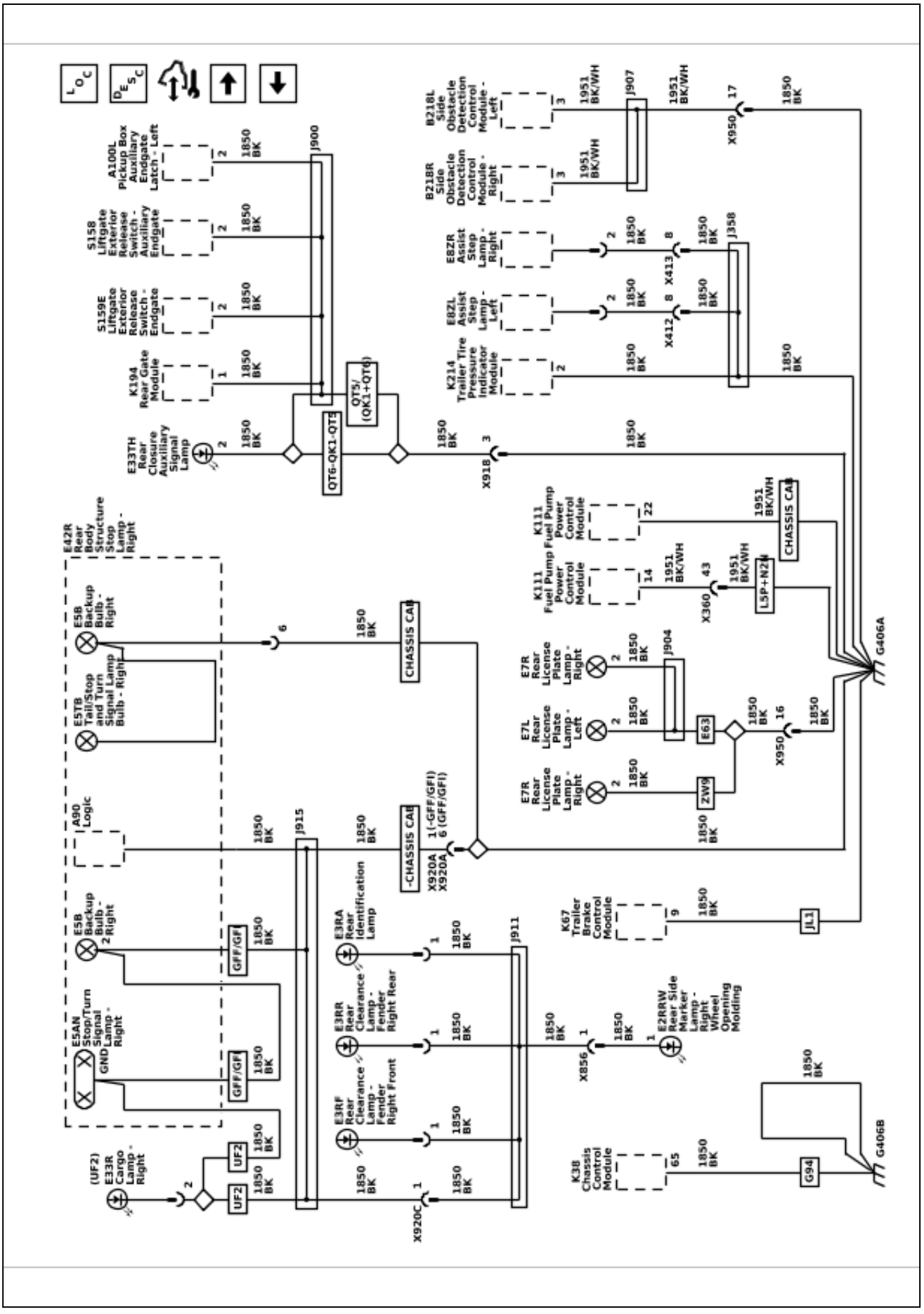
Ground Distribution Schematics (G402)



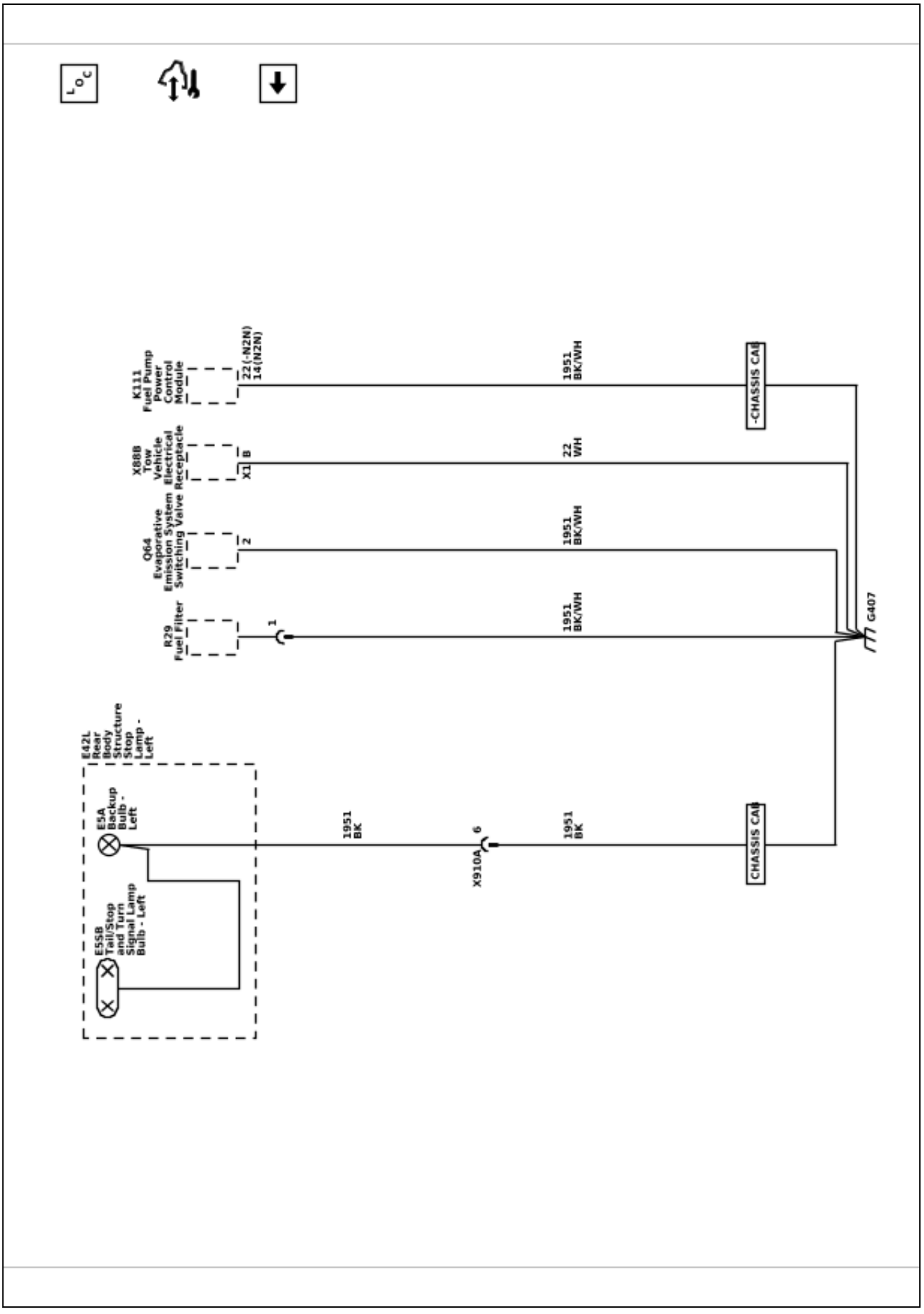
Ground Distribution Schematics (G404)



Ground Distribution Schematics (G406A and G406B)



Ground Distribution Schematics (G407)

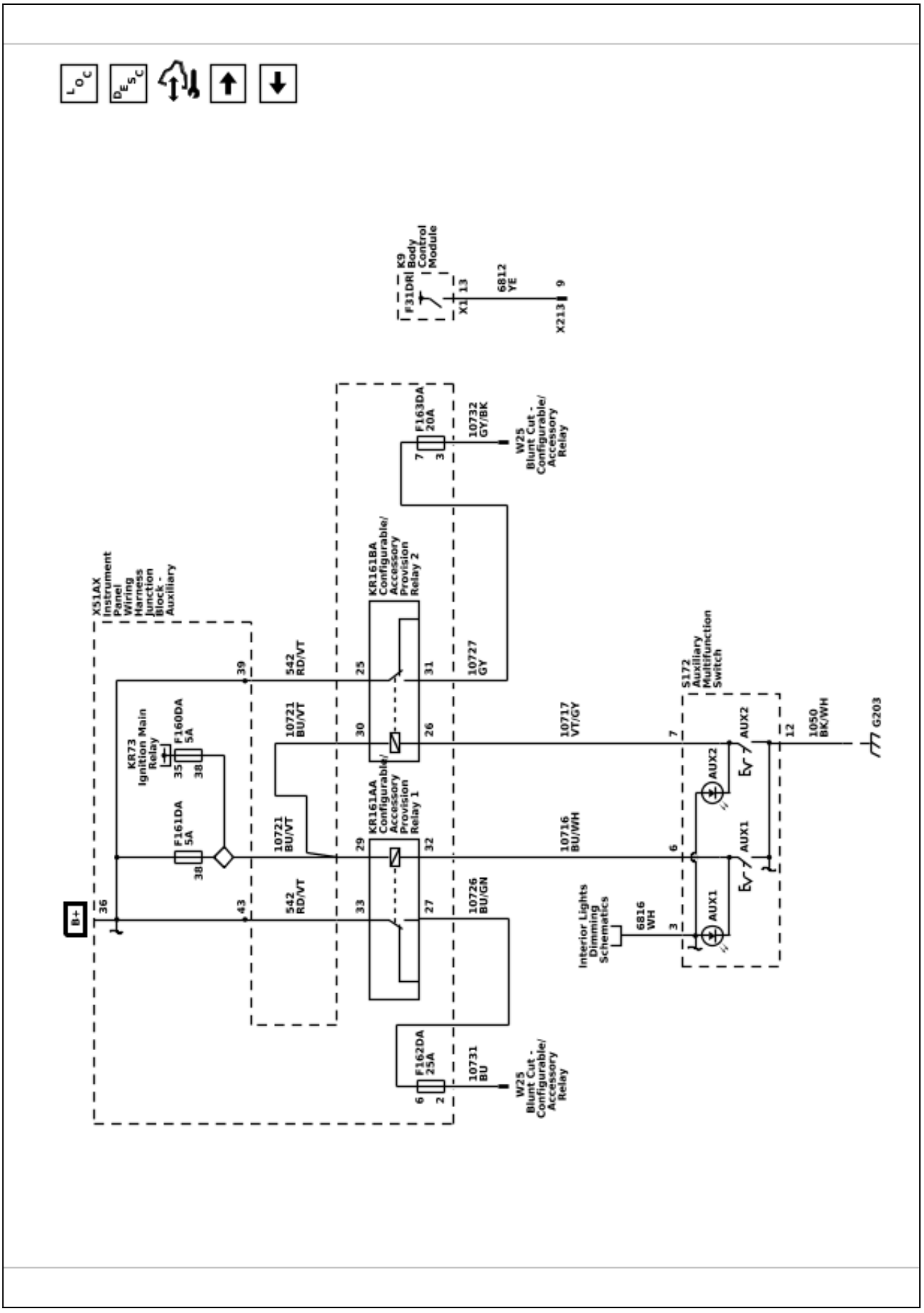


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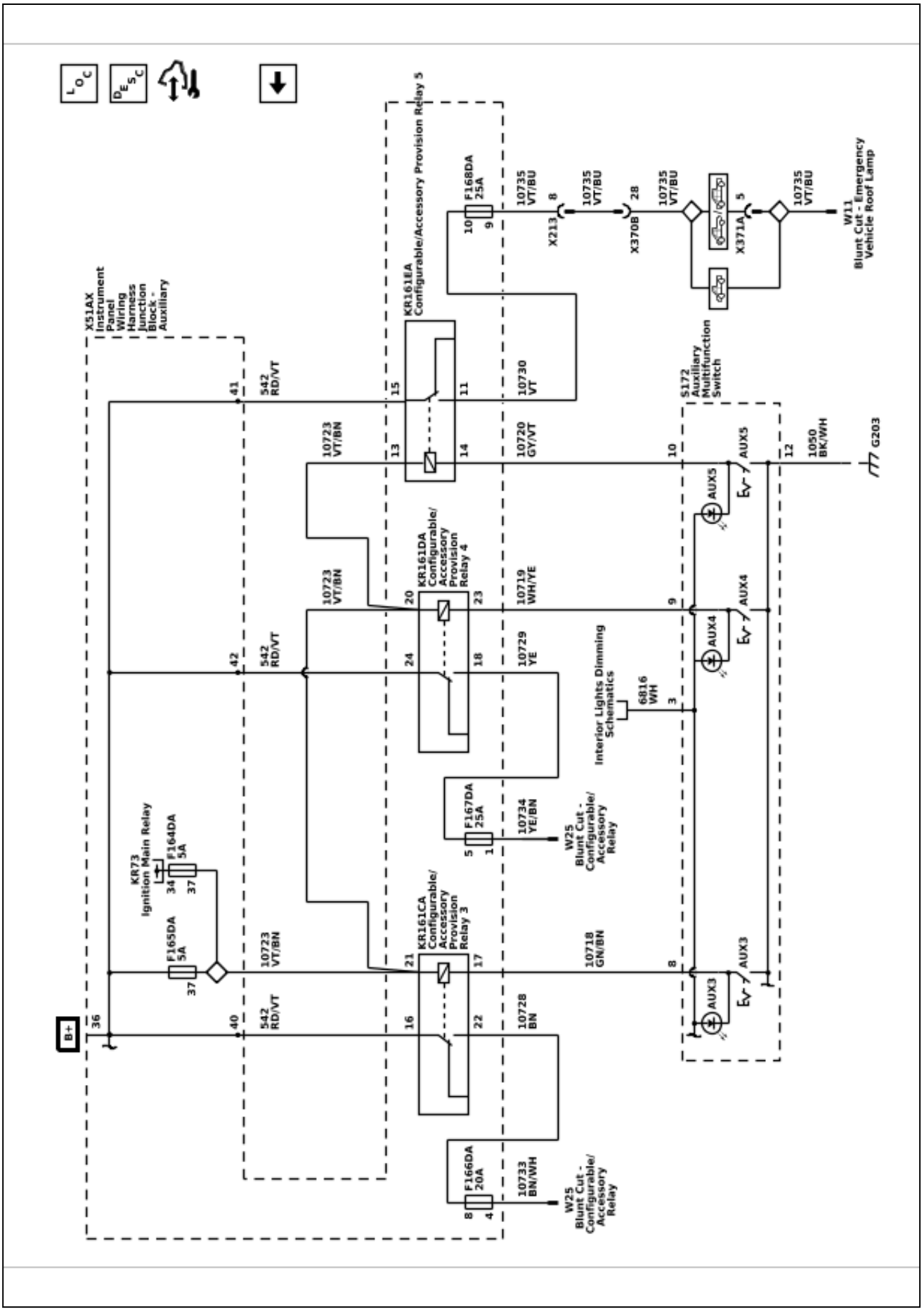
Upfitter Provision Schematics (Upfitter Provisions - Signals)



Upfitter Provision Schematics (Upfitter Provisions - 1 of 2 (9L7))



Upfitter Provision Schematics (Upfitter Provisions - 2 of 2 (9L7))



Description and Operation

Power Mode Description and Operation

Serial Data Power Mode Master

The K9 Body Control Module (BCM) is the Power Mode Master and the K56 Serial Data Gateway Module is the Back-Up Power Mode Master.

The Power Mode Master uses various vehicle status conditions and inputs to determine the desired vehicle power mode state. The Power Mode (Off, Accessory, Run, Propulsion, Start) is communicated to other modules via Serial Data and other electrical signals in order to provide the proper feature operation for the appropriate power mode.

If the Power Mode Master cannot control or determine the correct Power Mode, the Backup Power Mode Master will take over and become the vehicle Power Mode Master and place the vehicle into the proper Power Mode by communicating with other modules via Serial Data to provide the proper electrical signals to provide the proper feature operation for the appropriate power mode.

S38 On/Off Vehicle Switch

There are 5 power modes to convey driver intent:

- OFF – A low power mode that allows maximum stand time until next start
- ACCY – Allows use of certain features that require operator authorization (Power windows for example). Propulsion is specifically disallowed.
- RUN – All features enabled except propulsion (motive force)
- PROPULSION – All features enabled
- START - This will transition to PROPULSION, including turning off non-essential loads to provide additional power for starting.

Power Mode States

Customer Action	Expected Vehicle Power Mode	S38 Vehicle On/Off Switch BCM Scan Tool Parameter	S38 Vehicle On/Off Switch Voltages
Vehicle OFF, S38 On/Off Vehicle Switch not pressed, Transmitter in Range	Vehicle Off Mode	Inactive	1.4 – 3.0 V (Switch Pressed) 3.35 – 4.26 V (Switch Released) 4.5 — 5.0 V (Switch Disconnected)
Vehicle OFF, S38 On/Off Vehicle Switch not pressed, Transmitter out of Range/Away from vehicle	Vehicle Off Mode	Inactive	
Vehicle in any Power Mode EXCEPT OFF, then Press the S38 On/Off Vehicle Switch Foot On or Off the Brake Pedal, Transmitter in Vehicle	Vehicle Off Mode	Active (pushed) / Inactive (not pushed)	
Vehicle in Propulsion Mode, momentarily Press and Release the S38 On/Off Vehicle Switch Foot On or Off the Brake Pedal, Transmitter out of Range/Away from vehicle	Run Mode, With DIC Message No Remote Detected Press Brake to Restart	Active (pushed) Inactive (not pushed)	
Vehicle Off Power Mode, then Press the S38 On/Off Vehicle Switch for less than 5 s with foot Off the Brake Pedal; Transmitter in Vehicle	Vehicle Accessory Mode	Active (pushed) / Inactive (not pushed)	
Vehicle Off Power Mode, then S38 On/Off Vehicle Switch with foot On the Brake Pedal; Transmitter in Vehicle	Vehicle Start/Propulsion Mode (vehicle cranks then engine running (for Internal Combustion Engine) or Propulsion System Active for EV) power mode timeout is enabled	Active (pushed) / Inactive (not pushed)	
Vehicle Off Power Mode, then S38 On/Off Vehicle Switch with foot On the Brake Pedal for 5 to 10 s; Transmitter in Vehicle	Vehicle Start/Propulsion Mode (vehicle cranks then Propulsion Mode Active) power mode timeout will be disabled.	Active (pushed) / Inactive (not pushed)	

Customer Action	Expected Vehicle Power Mode	S38 Vehicle On/Off Switch BCM Scan Tool Parameter	S38 Vehicle On/Off Switch Voltages
Vehicle OFF Power Mode, then Press and Hold the S38 On/Off Vehicle Switch for 5 s with foot Off the Brake Pedal; Transmitter in Vehicle	Vehicle Run Mode (Ignition ON without the Propulsion system Active)	Active (pushed) / Inactive (not pushed)	
Vehicle OFF Power Mode, then Press and Hold the S38 On/Off Vehicle Switch for 5 s with foot Off the Brake Pedal; Transmitter in Vehicle	Vehicle Start/Propulsion Mode (vehicle cranks then Propulsion Active) power mode timeout is disabled	Active (pushed) / Inactive (not pushed)	
Vehicle Propulsion Mode with vehicle speed detected above 4 km/h (2.5 MPH) press and hold S38 On/Off Vehicle Switch for 2 s or press and release it 2 times within 5 S.	Vehicle will transition from Propulsion Mode to Run Mode (Ignition On Propulsion system Inactive).	Active (pushed) / Inactive (not pushed)	
NOTE: If the transmitter is not moved for more than 1 hour it will become inactive.			

Service Mode

Service Mode is the Run Power Mode with power mode timeout disabled. This can only be done with the Service Tool.

Automatic Power Mode Timeouts

Note: If the Transmitter/Fob remains stationary and is not moved for one hour, it will go to sleep and may create a fob not in range condition.

This system is designed to prevent batteries from going dead in the event the ignition is left on while unattended, it is also designed to shut the vehicle off if left running unattended. After a Power Mode timeout, the Power Mode Master is responsible for shutting down the or transitioning the vehicle into the low parasitic sleep state “OFF” Power Mode. This Power Mode timeout strategy uses Vehicle Speed, Vehicle Power Mode, Parked Status and other Vehicle Conditions to make the timeout determination.

Accessory Power Mode

The Accessory Power Mode will timeout after approximately 5 minutes. The timer will Start once the system has determined it is in the Accessory Power Mode status. After the timer expires the Power Mode will change to the OFF Power Mode.

Run Power Mode

if the conditions listed below are met the Run Power Mode will timeout after approximately 40 minutes if the transmitter is in range, or 20 minutes if the transmitter is out of range. The timer will Start once the system has determined it is in the Run Power Mode status and all of the following conditions are met. After the timer expires the Power mode will change to OFF Power Mode.

If any of the following conditions are not met and/or if there is a change in the Brake Pedal or Clutch Pedal status, the Run Mode timeout timer will be disabled, and the timer will restart after all of the conditions are met again.

- Vehicle in Run Mode (Vehicle powered up S38 On/Off Vehicle Switch Green indicator on Propulsion Mode Inactive)
- Propulsion is Inactive
- Vehicle in Park.
- Vehicle Speed is 0 KM/MPH.
- Fast Idle is inactive (If Equipped).
- PTO Remote Start Status is inactive (If Equipped).
- Particulate Filter Cleaning Status is Inactive (if Equipped)
- S38 Vehicle On/Off switch was held for more than 5 to 10 seconds while starting the vehicle the actual time may vary based on model and/or year.

Propulsion Power Mode

If the following conditions listed below are met the Propulsion Power Mode will timeout after approximately 30 minutes if the transmitter is in range, or 15 minutes if the transmitter is out of range. The timer will Start once the system has determined it is in the Propulsion Power Mode status and all of the following conditions are met. After he timer expires the Power mode will change to the OFF Power Mode.

The Propulsion Power Mode timeout can be disabled with then vehicle in Off Power Mode, apply and continue to hold the brake pedal, then press and hold the S38 Vehicle On/Off switch for 5 to 10 seconds (the actual time may vary based on model and/or year). A DIC message will be displayed when Power Mode timeout is disabled.

If any of the following conditions are not met and/or if there is a change in the Brake Pedal or Clutch Pedal status, the Propulsion Mode timeout timer will be disabled, and the timer will restart after all of the conditions are met again.

- Vehicle in Propulsion Mode (Propulsion Active).
- Vehicle in Park.
- Vehicle Speed is 0 KM/MPH.
- Fast Idle is Inactive (If Equipped).
- PTO Remote Start Status is inactive (If Equipped).
- Particulate Filter Cleaning Status is Inactive (if Equipped)
- S38 Vehicle On/Off switch was held for more than 5 to 10 seconds while starting the vehicle the actual time may vary based on model and/or year.

Relay Controlled Power Mode

The BCM uses discrete push button switch inputs, transmitter in range status, current power mode state, and brake pedal position state to distinguish the correct power mode (Off, Accessory Mode, Run Mode, Start/Propulsion Mode). The BCM, after determining the desired power mode, will activate the appropriate relays for that power mode.

The retained accessory power relay remains on for a timed period after the Ignition Mode is OFF. Refer to *Retained Accessory Power Description and Operation 6-777* for more information on the retained accessory power function.

Push Button Start

The ignition mode switch has 2 LEDs that indicate the vehicle power mode Amber for Accessory Mode and Green for Run or Start/Propulsion Modes. When the vehicle is in the OFF mode, both LED's will be OFF. Momentarily pressing the S38 On/Off Vehicle Switch button once, brake pedal not applied, the vehicle will enter into the Accessory Mode and the Amber LED will illuminate. The Accessory Mode will timeout after approximately 5 min to help reduce battery drain. With the ignition OFF, brake pedal not pressed, then pressing and holding the S38 On/Off Vehicle Switch for 5 s will place the vehicle in Run Mode (Ignition ON without the Propulsion Mode Active). The vehicle will stay powered up for approximately 40 minutes if the transmitter is in range, or 20 minutes if the transmitter is out of range, and the Green LED will illuminate.

With the ignition OFF brake pedal pressed, then press and release the iS38 On/Off Vehicle Switch, the vehicle will enter Start/Propulsion Mode and the Green LED will illuminate, the engine will crank and the engine will be running for Internal combustion engines (ICE), or Propulsion mode will go Active on Electric Vehicles (EV). The Propulsion Mode will timeout after approximately 30 minutes if the transmitter is in range, or 15 minutes if the transmitter is out of range. The timer will stop when the vehicle is shifted out of PARK or the brake pedal is pressed and released, the timer will reset after the vehicle is placed back in PARK with the Propulsion Mode Active.

Both LED's have the voltage supplied from the body control module (BCM). The ignition mode switch sends the ignition mode switch status to the passive entry passive start module (PEPS) and to the BCM. The PEPS module sends a redundant signal to the BCM with the ignition mode switch status.

Transport Mode

Transport Mode is designed to reduce the parasitic load of some modules during shipping and/or during vehicle storage. Some features may be disabled or have reduced functionality while Transport Mode is ON. Transport Mode is enabled and disabled by either of the following methods:

- With the Scan Tool Diagnostics > Body Control Module > Control Functions > Power Mode.
- Turning the hazard flashers ON, apply and hold the brake pedal, then press and hold the ignition mode switch for greater than 15 s. For vehicles equipped with a DIC a message Transport Mode On when it is enabled and Transport Mode Off when it is disabled will be displayed for a predetermined amount of time. For vehicles equipped without a DIC, the battery indicator light will constantly flash on the Instrument Cluster when Transport Mode is enabled.

Battery Saver Mode

There are 7 different Battery Saver Modes. Battery Saver Modes 1 to 3 occur in Accessory and Run Power Modes (vehicle on propulsion system Inactive) if the battery voltage drops below approximately 11.5 V. Battery Saver Modes 4 to 7 occur in the Off Power Mode only. Battery Saver Modes 4 to 7 may set DTC's.

- Battery Saver Mode 1: DIC message "Battery Low, Start Vehicle", 4 chimes
- Battery Saver Mode 2: DIC message "Battery Low, Start Vehicle", Load Shed Level 3 is activated
- Battery Saver Mode 3: DIC message "Battery Low, Start Vehicle", Radio/Infotainment shut off, Load Shed Level 3 active

- Battery Saver Mode 4: Battery Saver Mode Ignition Off – Parasitic Current draw of 100 mA or greater
- Battery Saver Mode 5: Battery Saver Mode Ignition Off – Parasitic Current draw of 1 A or greater
- Battery Saver Mode 6: Battery Saver Mode Ignition Off – Battery Voltage less than 12.0 V
- Battery Saver Mode 7: Battery Saver Mode Ignition Off – Battery Voltage less than 11.6 V

Load Shedding

Prior to Load shedding Idle Boost will occur, the idle speeds will be increased by 25 to 300 RPM to help maintain a normal battery voltage. Idle Boost may be noticeable to the driver. If the battery voltage continues to drop below a normal state then load shedding will go active and it will start to reduce electric loads for components that will not impact the safe operation of vehicle. At load shed levels 2 and 3 a DIC message will be displayed “Reducing Features To Save Battery”. When load shedding is active the customer may begin to notice features starting to have reduced functions or may become inoperative. Examples of affected loads are radio, HVAC blower(s) front and rear (if equipped), heated/ventilated seats, heated mirrors, rear defogger and other devices with heavy electrical draws. Idle Boost and load shed levels can be observed with the scan tool.

Idle Boost 1
Idle is increased by 25-100 RPM and generally is not noticeable to most drivers.

Idle Boost 2
Idle is increased by 50–200 RPM and generally is not noticeable to most drivers.

Idle Boost 3
Idle is increased by 100–300 RPM and may be noticeable to most drivers.

Load Shed Level 1
Reduces load current by 25%.

Load Shed Level 2
Reduces load current by 50%.

Load Shed Level 3
Electric loads for components that will not impact the safe operation of vehicle will be turned Off.

BCM Awake/Sleep States

The BCM is able to control or perform all of the BCM functions in the awake state. The BCM enters the sleep state when active control or normal monitoring of system functions has stopped and a time limit has passed. The BCM must detect certain wake-up inputs before entering the awake state. The BCM monitors for these inputs during the sleep state.

The BCM will enter the awake state if any of the following wake-up inputs are detected:

- Activity on the serial data line
- Detection of a battery reconnect
- Any door open signal
- Headlamps ON
- Ignition ON
- Park lamps ON
- Keyless entry or remote start message

The BCM will enter a sleep state when all of the following conditions exist:

- Ignition OFF, transmitter is out of range
- No activity exists on the serial data line.
- No outputs are commanded.
- No delay timers are actively counting.
- No wake-up inputs are present.

If all these conditions are met, the BCM will enter a low power or sleep condition.

Retained Accessory Power Description and Operation

Retained Accessory Power

The Retained Accessory Power (RAP) & Interruptible RAP (IRAP) Circuits are controlled by the K9 Body Control Module (BCM). The BCM is the Power Mode Master, it utilizes various Vehicle inputs to determine the Vehicle Power Mode and sends this information via Serial Data and providing associated electrical signals to the entire vehicle for proper feature operation.

The BCM monitors the vehicles power modes, and door ajar/open switch status to determine whether the retained accessory power should be initiated and remain active or be terminated. The RAP output is optional based on the vehicles option contents. When utilized, the RAP Output control can be used to control a RAP Relay, it may provide direct power, or s serial data message to vehicle devices/modules from the BCM.

Retained Accessory Power Relay Coil Control Circuit (If Equipped)

The BCM keeps the device or relay (if equipped) energized during all power modes, except Off-Awake and Crank. The device(s) remain active for approximately 10 min after the Vehicle is placed into the OFF Power Mode, provided none of the doors are opened.

Retained accessory power will end when one of the following conditions are met:

- The BCM receives an input from any door ajar switch indicating the opening of the door after the OFF Power Mode is achieved.

Note: If the BCM is receives a door open/ajar active signal when the vehicle is placed into the OFF Power Mode, the retained accessory power will not initiate.

- The BCM internal timer for the retained accessory power expires after approximately 10 min.

Systems powered by the retained accessory power control circuit during the retained accessory power mode are as follows:

Note: The vehicle may not be equipped with all components as listed below.

- 12 V Accessory Power Receptacle
- Cigarette Lighter Receptacle
- Window Switches
- Sunroof Control Module (If Equipped)
- Sunroof Switch (If Equipped)
- Mobile Device Wireless Charger Module
- Mobile Telephone Control Module (If Equipped)
- Traffic Data Receiver (If Equipped)
- Transmission Shift Lever Position Indicator (w/floor mounted console gear shift)

Serial Data Controlled Retained Accessory Power

Retained accessory power systems controlled by serial data are as follows:

Radio
Radio retained accessory power activation/termination is the same as relay operation with one exception; the only door that will turn the radio off during retained accessory power is the driver door open/ajar switch. The USB Ports will function the same as the radio.

Vehicle Communication Interface Module (VCIM) (Onstar®) (If Equipped)
VCIM RAP activation/termination is the same as radio operation with 1 exception; if there is an active call and the vehicle is placed in the OFF Power Mode, the VCIM will remain in RAP mode, and keep the radio in RAP mode until the call is terminated.

Interruptible Retained Accessory Power

The Power Mode Master (PMM) Controls components as needed If equipped with a RAP relay, the BCM controls the Retained Accessory Power with an exception, Interruptible Retained Accessory Power (IRAP) is deactivated during transmitter authentication. During Transmitter Authentication the PMM will deactivate components including IRAP to prevent Radio Frequency (RF) Interference (RFI) that may cause a “NO REMOTE DETECTED” message to be displayed on the drivers information center.

Note: If transmitter Authentication occurs while in Run or Propulsion Modes, it is normal to for IRAP to be interrupted momentarily (i.e. items connected to auxiliary power ports or chargers may momentarily go off then come back on).

If a remote transmitter was not been previously detected, Transmitter Authentication can occurs under any of the following conditions:

- The drivers side front door is opened.
- The drivers side rear door is opened.
- The S38 Vehicle On/Off Switch is pressed.

Special Purpose Vehicle Module Description and Operation

Special Purpose Vehicle Module

The K56U Special Purpose Vehicle Module is an interface module that allows the Upfitter to interface with GM vehicle’s secure CAN networks to request predefined actions and to indirectly monitor key vehicle data that is available on the vehicle network.

The module is available to be ordered by dealer or as an Accessory to be installed. If ordered by the dealer it will be installed and programmed by the assembly plant with the output controls disabled. If ordered as an Accessory it will need to be installed on the vehicle, programmed and configured.

Input Controls

The Input Controls are Defaulted on and a GM approved Upfitter Switch must be installed to operate the appropriate Output control that must be enabled by the Upfitter. The input circuits may set a DTC if a non approved switch is installed.

Switches
There are 5 predefined functions that may be requested by switching analog inputs to the required input voltage range.

Refer to*https://www.gmupfitter.com/* for details on all available options

Output Controls

The SPVM has ten outputs that can be configured with a user interface to allow outputs to be switched ON or OFF based on the data that is monitored and available from the GM vehicle network.

Input/Output Configuration

Inputs:

- Battery Power
- Ground
- High Speed Can (hi/lo)
- 10 Analog Inputs (0.5A Maximum load)

Outputs:

- High Speed Can (hi/lo)
- 10 Digital Outputs

Module Configuration

Refer to *https://www.gmupfitter.com/*

Section 7

Safety and Security

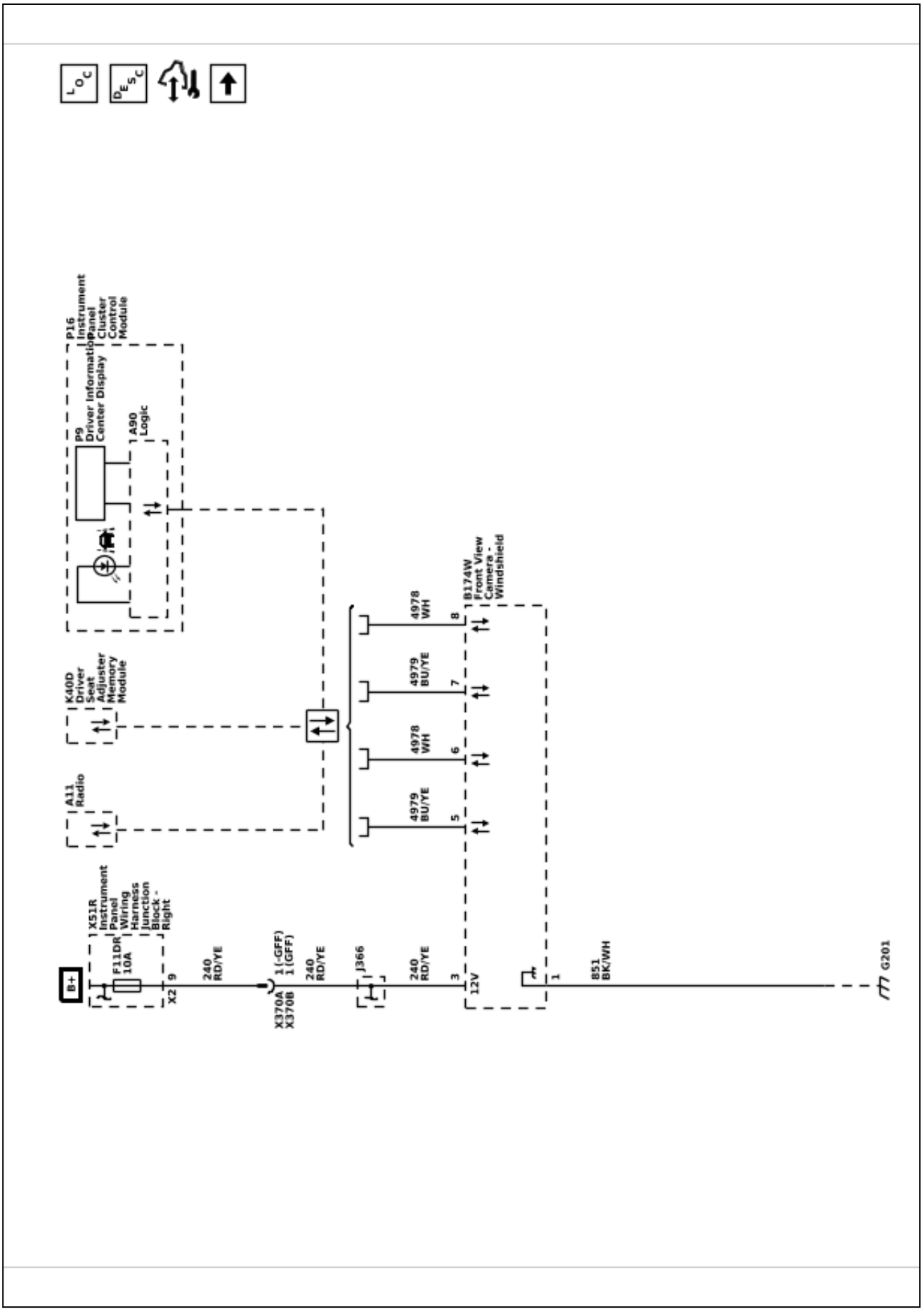
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Safety and Security

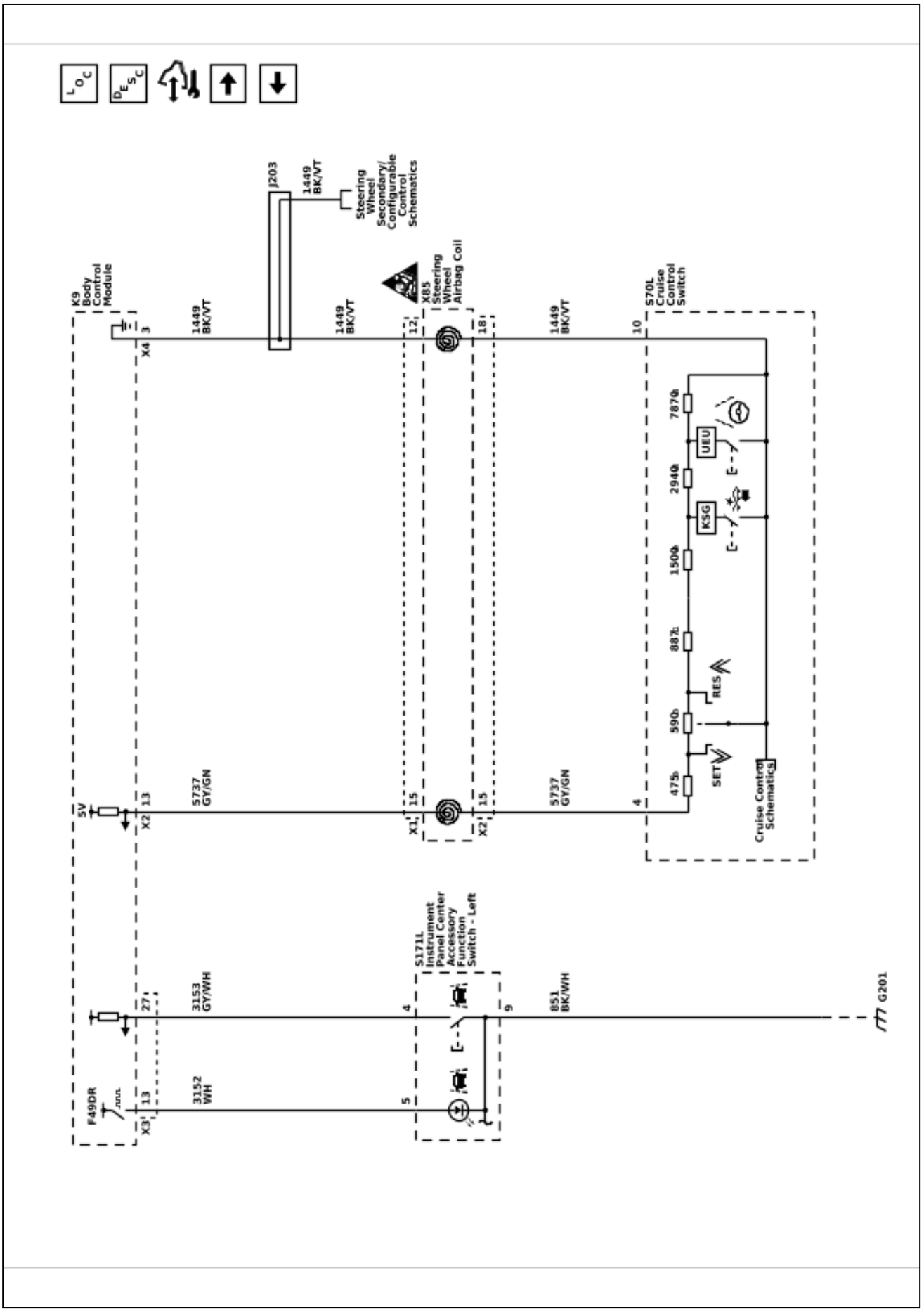
Driver Assistance Systems

Schematic and Routing Diagrams

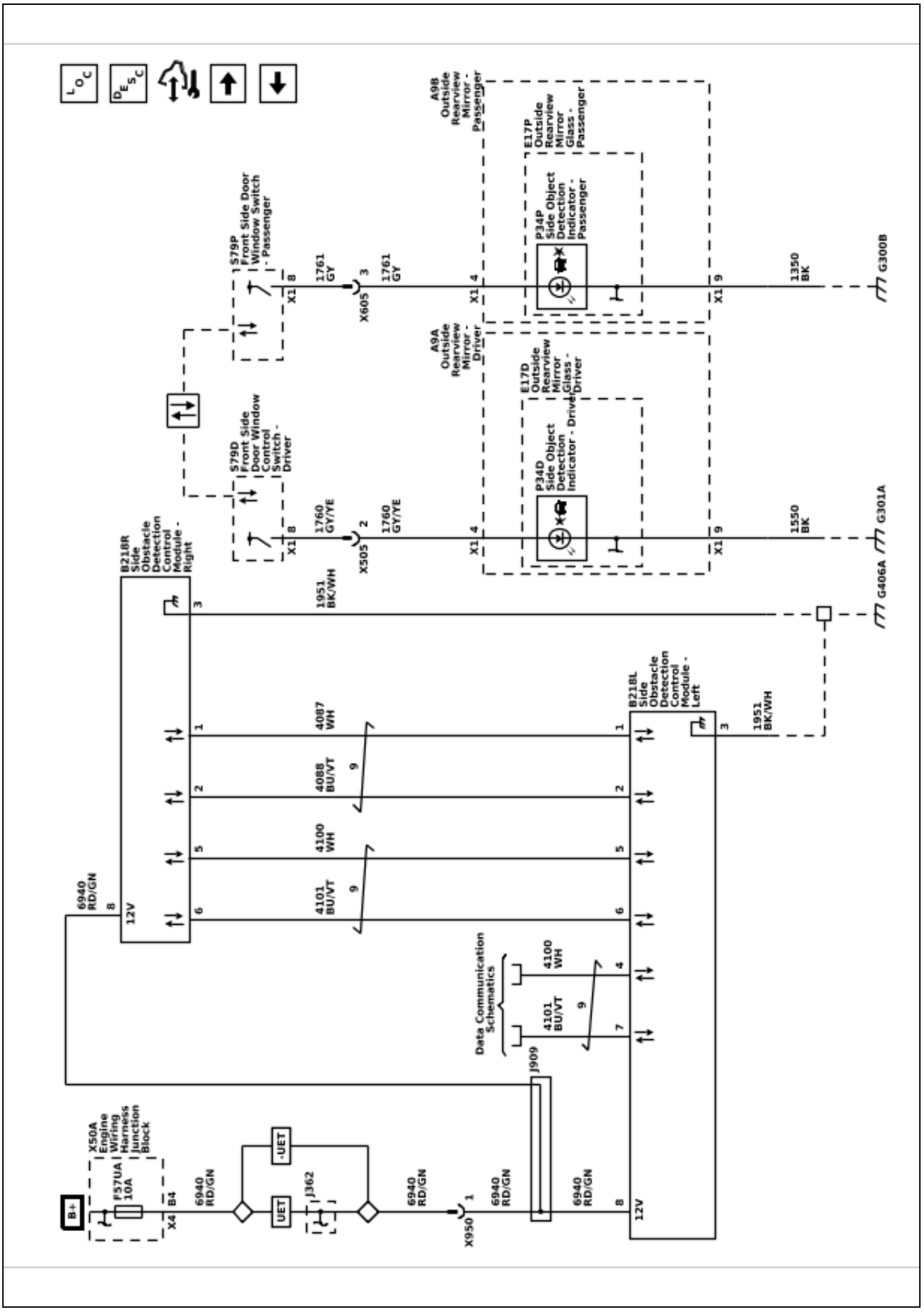
Driver Assistance Systems Schematics (Lane Keep Assist and Forward Collision Alert - Module Power, Ground, and Serial Data)



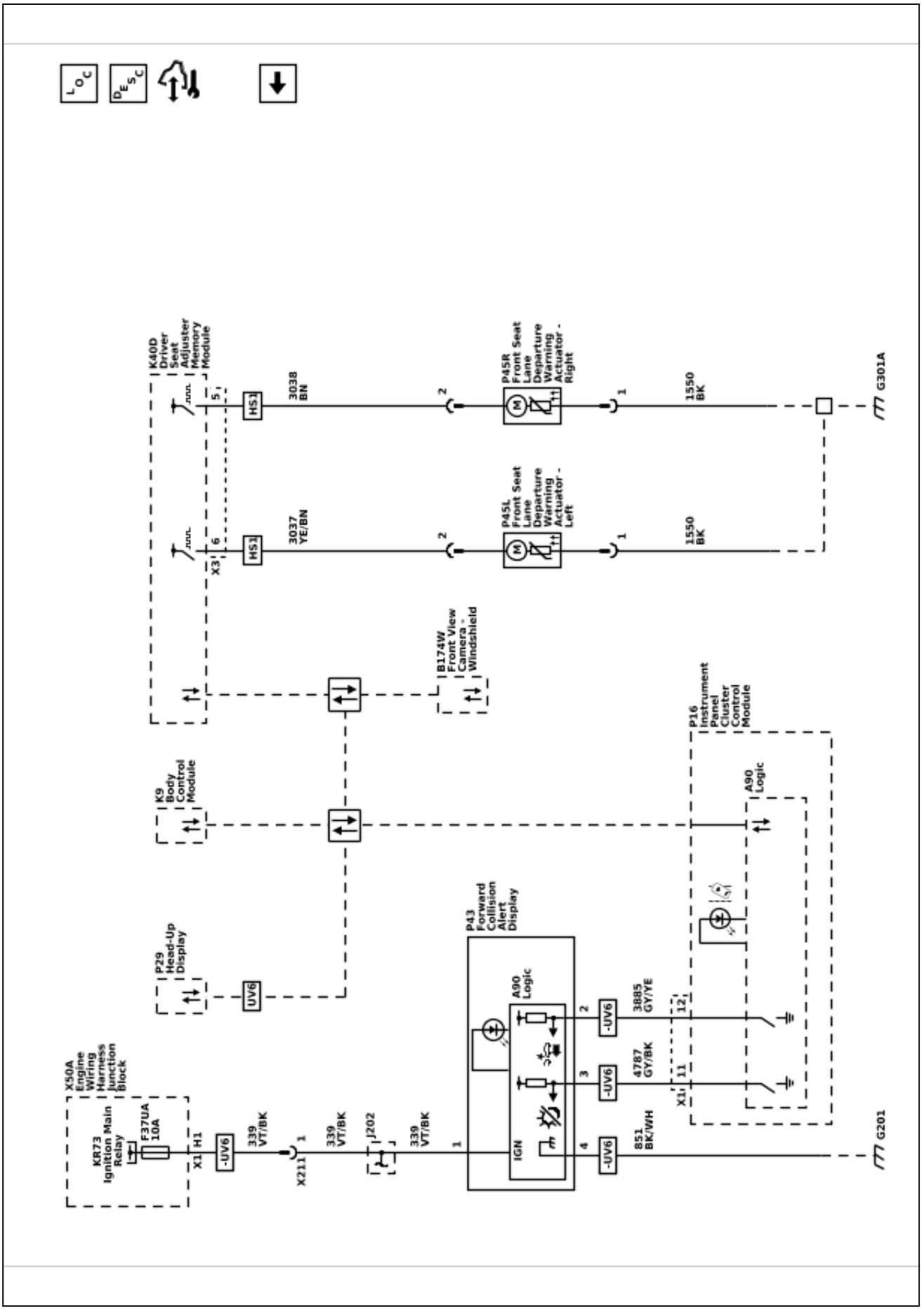
Driver Assistance Systems Schematics (Lane Keep Assist and Forward Collision Alert - Controls (UEU))



Driver Assistance Systems Schematics (Side Object Detection (UKC / UKV))



Driver Assistance Systems Schematics (Collision Alert Indicators)



Description and Operation

Forward Collision Alert Description and Operation

Forward Collision Alert (UEU)

The forward collision alert system is a convenience feature of the B174W Frontview Camera – Windshield that can warn drivers of a possible front-end collision situation with a vehicle they are following. The B174W Frontview Camera – Windshield is located behind the windshield, looking out at the road ahead and detecting vehicles directly ahead. When a vehicle is detected ahead, a green icon is displayed. This indicator will turn amber if the driver is following too closely. If the system detects that the driver is seconds away from a possible front-end collision, it sends an alert. The P43 Collision Alert Indicators, which includes a series of red collision alert LEDs, will flash. An audible alert sound will simultaneously sound. If the vehicle is equipped with safety alert seat (HS1), both sides of the seat will pulse. The forward collision alert system can be set to "far," "medium," or "near" timing using the forward collision alert switch and can be turned off using this control or through the vehicle personalization.

Forward collision alert does not provide a warning to help avoid a crash unless it detects a vehicle. Forward collision alert may not detect a vehicle ahead if the B174W Frontview Camera – Windshield is blocked by dirt, snow, or ice, or if the windshield is damaged. It may also not detect a vehicle on winding or hilly roads, or in conditions that can limit visibility such as fog, rain, or snow, or if the headlamps or windshield are not cleaned or in proper condition. Keep the windshield, headlamps, and B174W Frontview Camera – Windshield area clean and in good repair.

Forward collision alert may provide unnecessary alerts for turning vehicles, vehicles in other lanes, objects that are not vehicles, or shadows. These alerts are normal operation and the vehicle does not need service.

Forward Automatic Braking (UHY)

Forward automatic braking detects vehicles ahead in your path that are traveling in the same direction and may help reduce crash severity or avoid the crash altogether by applying the brakes automatically or enhancing the driver’s braking in some emergency front-end collision situations . It can provide braking assist, such as brake system pre-fill, or automatically brake the vehicle if an imminent collision is determined. This can help avoid or lessen the severity of crashes when driving in a forward gear. Depending on the situation, the vehicle may automatically brake moderately or hard. Forward automatic braking can only occur if a vehicle is detected. When a vehicle is detected ahead, a green icon is displayed. The forward automatic braking system works when driving in a forward gear between 8 km/h (5 mph) and 60 km/h (37 mph). It can detect vehicles up to approximately 60 m (197 ft) away.

If the system detects that the driver is seconds away from a possible front-end collision with the vehicle it is following, it will first send an alert. If the driver doesn’t respond quickly or the situation happens suddenly, forward automatic braking enhances the driver’s braking or automatically applies the brakes. Drivers can override automatic braking at any time by pressing the accelerator or by braking. If the system slows a vehicle to a complete stop, the electronic parking brake will apply. The electronic parking brake can be release in typical fashion by pressing the electronic parking brake switch.

Through vehicle personalization, the forward automatic braking can be set to the ALERT setting or turned completely off. This setting disables most automatic braking functions. The driver information center will display FORWARD COLLISION SYSTEM REDUCED or AUTOMATIC COLLISION PREP REDUCED. This is normal operation when the forward automatic braking or forward collision alert system is set to OFF or ALERT. This message is not present when the forward automatic braking or forward collision alert system are set to ALERT and BRAKE.

Forward Collision Alert/ Forward Automatic Braking Components

- B174W Frontview Camera – Windshield
- P16 Instrument Cluster
- P43 Collision Alert Indicators (except UV6)
- P29 Head-Up Display (UV6)
- Forward Collision Alert Switch
- Infotainment System
- Safety Alert Seat (HS1)

B174W Frontview Camera – Windshield

The B174W Frontview Camera – Windshield detects vehicles in front of the vehicle. The B174W Frontview Camera – Windshield communicates with the P16 Instrument Cluster via serial data to illuminate the appropriate amber or green vehicle ahead indicator or P43 Collision Alert Indicators. The B174W Frontview Camera – Windshieldalso communicates via serial data with the infotainment system to request audible alerts.

P16 Instrument Cluster

The P16 Instrument Cluster communicates via serial data with the B174W Frontview Camera – Windshield and will illuminate the amber or green vehicle ahead indicator as requested by the B174W Frontview Camera – Windshield. The P16 Instrument Cluster also controls the P43 Collision Alert Indicators.

P43 Collision Alert Indicators (except UV6)
The P43 Collision Alert Indicators are a series of red LEDs that will flash when approaching another vehicle too rapidly. The P43 Collision Alert Indicators are located in the upper instrument panel area and reflect off the windshield when illuminated.

The P43 Collision Alert Indicators receive power and ground and are discretely controlled by the P16 Instrument Cluster through a pair of low control circuits. When requested by the B174W Frontview Camera – Windshield, the P16 Instrument Cluster will pulse the low control circuits, flashing the LEDs as a visual alert that another vehicle is being approached too rapidly.

P29 Head-Up Display (UV6)
The P16 Instrument Cluster controls the P29 Head-Up Display via serial data. The P16 Instrument Cluster will command the P29 Head-Up Display to flash the collision alert indicator as a visual alert when approaching another vehicle too rapidly as requested by the B174W Frontview Camera – Windshield.

Forward Collision Alert Switch
The forward collision alert switch provides an input to the B174W Frontview Camera – Windshield to select the alert timing sensitivity when approaching another vehicle too rapidly. The forward collision alert switch is part of the S70L Steering Wheel Controls Switch – Left and provides inputs to the K9 Body Control Module, which then communicates with the B174W Frontview Camera – Windshield via serial data.

The K9 Body Control Module applies voltage and monitors a low signal voltage from the normally open switch. When the switch is pressed, the signal circuit is pulled low through a specific series of resistors, indicating that the system has been requested to change the alert timing sensitivity. The first button press will show the current alert timing setting on the driver information center. With every subsequent button press, the alert timing sensitivity is changed.

Infotainment System
The infotainment system controls the audible alerts for the forward collision alert system. If the vehicle is approaching another vehicle too rapidly, the B174W Frontview Camera – Windshield will command the infotainment system issue an audible alert to the driver.

Safety Alert Seat (HS1)
The K40 Seat Memory Control Module controls the haptic alert provided by the seats. If the vehicle is approaching another vehicle too quickly, the B174W Frontview Camera – Windshield will command the K40 Seat Memory Control Module to pulse both sides of the seat.

Forward Collision Alert and Forward Automatic Braking Operational Checks

If the forward collision alert system is off, inoperative, or not functioning, check the following:

- Verify there are no active driver information center messages and that no DTCs are set.
- Verify that the system is enabled through vehicle personalization. Vehicle personalization allows the system to be set to “Off,” “Beeps,” ”Alert,” “Safety Alert Seat,” or “Alert & Brake”.
- Attempt to replicate the customer concern. While driving, if the vehicle-ahead telltale display illuminates green when following a vehicle above 8 km/h (5 mph) , forward collision alert is operating properly.

If the driver is receiving false forward collision alerts, check the following:

- Verify the B174W Frontview Camera – Windshield is not blocked by dirt, snow, or ice, and the windshield is not damaged.
- The system may be identifying vehicles farther ahead than the customer is expecting. Forward collision alert detects vehicles within a distance of approximately 60 m (197 ft) and operates at speeds above 8 km/h (5 mph).
- Forward collision alert may provide unnecessary alerts to turning vehicles, vehicles in other lanes, objects that are not vehicles, or shadows. These alerts are normal operation and the vehicle does not need service.

If forward collision alert beeps, but the seat does not vibrate, check the following:

- Verify the vehicle is equipped with safety alert seat (RPO HS1).
- Verify there are no active driver information center messages and that no DTCs are set.
- Verify that the system is enabled through vehicle personalization: It may be set to “Beeps” or “Alert Only” instead of “Safety Alert Seat” or “Alert & Brake”.

If FORWARD COLLISION SYSTEM REDUCED or AUTOMATIC COLLISION PRE REDUCED is displayed on the driver information center, check the following:

- Verify that the system is enabled through vehicle personalization: It may be set to “Alert Only” instead of ”Off” or Alert & Brake”.

If SERVICE FRONT CAMERA is displayed on the driver information center, check the following:

- Verify there are no active driver information center messages and that no DTCs are set.

- If the message is only displayed upon startup, check the following:
  - Verify the B174W Frontview Camera – Windshield is not blocked by dirt, snow, or ice, and the windshield is not damaged.
  - Verify the vehicle is not parked closed to a wall or the B174W Frontview Camera – Windshield is not in an over-temperature condition, such as sitting for long periods in high ambient temperatures and direct sun.
- If the message is displayed beyond startup, check the following:
  - Verify there are no active driver information center messages and that no DTCs are set.

If FRONT CAMERA IS BLOCKED is displayed on the driver information center, check the following:

- Check for any other driver information center service messages.
- Verify the B174W Frontview Camera – Windshield is not blocked by dirt, snow, or ice, and the windshield is not damaged.

If SERVICE DRIVER ASSIST is displayed on the driver information center, check the following:

- Check for any other driver information center service messages.
- Verify there are no active driver information center messages and that no DTCs are set.

Lane Departure Warning Description and Operation

The lane departure warning system is a convenience feature that utilizes the B174W Frontview Camera – Windshield to determine if the vehicle has unintentionally crossed a lane marking and issue a warning. The B174W Frontview Camera – Windshield is located behind the windshield, looking out at the road ahead and detecting any lane markings. When the vehicle unintentionally leaves a detected lane, visual and audible alerts are given to the driver. The visual alert cannot be changed, but the driver can select audible alerts in the vehicle personalization menus. Refer to the vehicle owner's manual for vehicle personalization options.

The lane departure warning system utilizes the following components:

Lane Departure Warning Components

- B174W Frontview Camera – Windshield
- P16 Instrument Cluster
- Lane Departure Warning Switch
- Infotainment system
- Safety Alert Seat (HS1)

B174W Frontview Camera – Windshield
The B174W Frontview Camera – Windshield detects visual queues such as lane markings. When it is determined that the vehicle has unintentionally moved outside of the lane, visual and audible or haptic (if equipped) warning is given to the driver. The B174W Frontview Camera – Windshield receives an input from the lane departure warning switch and controls the lane departure warning switch indicator output. The B174W Frontview Camera – Windshield also communicates via serial data with the P16 Instrument Cluster and infotainment system to request visual and audible alerts.

P16 Instrument Cluster
The P16 Instrument Cluster contains green and amber lane departure warning indicators. These indicators inform the driver of the current status of the lane departure warning system and are controlled via serial data by the B174W Frontview Camera – Windshield. When the vehicle speed is above 56 km/h (35 MPH) and the system has detected the required lane markings and is ready to assist, the green indicator will be illuminated. If the vehicle has unintentionally left the lane, the amber indicator will flash.

Lane Departure Warning Switch
The lane departure warning switch provides an input to the B174W Frontview Camera – Windshield to turn the lane departure warning system on and off. The B174W Frontview Camera – Windshield applies voltage and monitors the lane departure warning switch signal circuit. The lane departure warning switch is a normally open switch. With the switch open, voltage seen at the B174W Frontview Camera – Windshield is high. When the lane departure warning switch is pressed, the switch is closed and the signal circuit is pulled to ground. With the switch closed, voltage seen at the B174W Frontview Camera – Windshield is low. The B174W Frontview Camera – Windshield will respond to this by activating or deactivating the lane departure warning system.

The lane departure warning switch also utilizes the lane departure warning indicator, which is part of the lane departure warning switch and is controlled by the B174W Frontview Camera – Windshield to indicate the operational status of the lane departure warning system. When the lane departure warning is enabled, the B174W Frontview Camera – Windshield will illuminate the indicator on the switch. The indicator receives voltage through a high control circuit from the K9 Body Control Module and is controlled through a low control circuit by the B174W Frontview Camera – Windshield.

Infotainment System
The infotainment system controls the audible alert for the lane departure warning. If the vehicle has unintentionally left the lane, the B174W Frontview Camera – Windshield will request via serial data an audible alert to the driver through the infotainment system

Safety Alert Seat (HS1)
The K40 Seat Memory Control Module controls the haptic alert provided by the seats. If the vehicle is approaching a lane marking, the B174W Frontview Camera – Windshield will command the K40 Seat Memory Control Module to pulse the appropriate P45 Seat Haptic Movement Motor that corresponds with the side of the vehicle approaching the lane marking..

Lane Departure Warning Operation

System Operational Modes
- Off State: The system has been turned off by the driver using the lane departure warning switch. The lane departure warning indicator located on the lane departure warning switch will not be illuminated.
- Not Ready To Assist: The system is enabled and the lane departure warning indicator located on the lane departure warning switch is illuminated, but the system is not ready to assist because one of the following conditions is true:
  - Vehicle speed is less than 56 km/h (35 MPH). The system is designed to function at speeds greater than 56 km/h (35 MPH).
  - The system cannot detect lane markings. This may be because there are no lane markings or the lane markings cannot be determined due to snow, rain, or other driving conditions.
  - The windshield area in front of the camera or the camera lens is blocked by fog, dirt, damage to the windshield, or other elements that may prevent the camera from detecting lane markings.
- Ready To Assist: The system is enabled and ready to warn of the unintentional lane crossing. The system is ready to assist when the green lane departure warning indicator is illuminated on the P16 Instrument Cluster.

Lane Crossing Alerts
- A lane crossing alert consists of the following:
  - The amber lane departure warning indicator located on P16 Instrument Cluster will flash.
  - Three chimes are activated through the infotainment system
- When any of the following conditions occurs, the system will not give alerts:
  - The appropriate turn signal is activated. An activated turn signal is interpreted as an intentional lane crossing.
  - The operator makes an intentional steering maneuver.
  - The operator makes an intentional accelerating maneuver.
  - The operator makes an intentional braking maneuver.

Lane Departure Warning Operational Checks

If lane departure warning is not functioning, check the following:

- Verify the vehicle is equipped with lane departure warning (RPO UFL).
- Check for a SERVICE FRONT CAMERA or SERVICE DRIVER ASSIST message on the driver information center.
  - If either message is present, an issues exists with the B174W Frontview Camera – Windshield that is affecting all camera functions, not just lane departure warning. Verify no DTCs are set and refer to the appropriate diagnostic procedure.
- Verify the lane departure warning indicator turns on and off when pressing the lane departure warning switch.
  - If the indicator does not turn on and off, verify no DTCs are set and refer to the appropriate diagnostic procedure.
- Operate the vehicle above 56 km/h (35 MPH) with good lane markings and no inclement weather (snow, rain, or low sun) and verify the green lane departure warning indicator is illuminated on the P16 Instrument Cluster.
  - Verify there are no active driver information center messages and that no DTCs are set.

Lane Keep Assist Description and Operation

The lane keep assist system is a convenience feature that utilizes the B174W Front View Camera - Windshield maintain the vehicle location between identified lane markings. The B174W Front View Camera - Windshield is located behind the windshield, looking out at the road ahead and detecting any lane markings. If the vehicle begins to approach an identified lane marking, automatic correction will be applied by the electric power steering to move the vehicle back toward the center the lane. An integrated function of lane keep assist is lane departure warning. When the vehicle unintentionally leaves a detected lane, visual and audible or haptic (if equipped) alerts are given to the driver. The visual alert cannot be changed, but the driver can select between audible or haptic alerts in the vehicle personalization menus.

Lane Keep Assist System Components

The lane keep assist system is made up of the following components:

- B174W Front View Camera - Windshield
- P16 Instrument Panel Cluster Control Module
- Multi-axis acceleration sensor (part of the K36 Restraints Control Module)
- Steering wheel angle sensor (part of the K43 Power Steering Control Module)
- K43 Power Steering Control Module
- Lane keep assist switch
- Infotainment system
- Safety alert seat (with HS1)

B174W Front View Camera - Windshield
The B174W Front View Camera - Windshield detects visual queues such as lane markings. When it is determined that the vehicle is approach an identified lane marking, automatic correction will be applied by the electric power steering to move the vehicle back toward the center the lane. Using the multi-axis acceleration sensor and steering wheel angle sensor, the B174W Front View Camera - Windshield determines the vehicles path and compares this to it's own intended path based on lane markings. The B174W Front View Camera - Windshield will then request the K43 Power Steering Control Module to perform the appropriate steering correction. The B174W Front View Camera - Windshield receives an input via serial data from the lane keep assist switch and controls the lane keep assist switch indicator output.

P16 Instrument Panel Cluster Control Module
The P16 Instrument Panel Cluster Control Module contains green and amber lane keep assist indicators. These indicate to the driver the current status of the lane keep assist system and are controlled via serial data by the B174W Front View Camera - Windshield. When the vehicle speed is above the minimum required speed and the system has detected the required lane markings and is ready to assist, the green indicator will be illuminated on the P16 Instrument Panel Cluster Control Module. If the vehicle has unintentionally left the lane, the amber indicator will flash.

Multi-axis Acceleration Sensor
The steering intervention is based on the forward looking sensor outputs, such as lateral offset of the vehicle, relative yaw angle and time to line crossing. Over that, other vehicle dynamics signals are needed, e.g. velocity, steering angle, yaw rate for the purpose of a driver suppression. The multi-axis acceleration sensor measures vehicle dynamics signals such as velocity and yaw rate for the purpose of determining the vehicles path. The multi-axis acceleration sensor is an integrated part of the K36 Restraints Control Module.

Steering Wheel Angle Sensor
The steering intervention is based on the forward looking sensor outputs, such as lateral offset of the vehicle, relative yaw angle and time to line crossing. Over that, other vehicle dynamics signals are needed, e.g. velocity, steering angle, yaw rate for the purpose of a driver suppression. The steering wheel angle sensor measures vehicle dynamics signals such as steering angle for the purpose of determining the vehicles path. The steering wheel angle sensor is an integrated part of the steering gear and K43 Power Steering Control Module.

K43 Power Steering Control Module
The K43 Power Steering Control Module uses a torque sensor to detect driver inputs and relays that information to the B174W Front View Camera - Windshield. The electric power steering is used to maintain lane centering.

Lane Keep Assist Switch
The lane keep assist switch provides an input to the B174W Front View Camera - Windshield via serial data to turn the lane keep assist system on and off. The B174W Front View Camera - Windshield provides a signal voltage to the normally open momentary switch. When the switch is pressed, the signal circuit is pulled to ground, indicating to the B174W Front View Camera - Windshield that the system has been requested to turn ON or OFF. The lane keep assist switch also contains the lane keep assist switch indicator, which is controlled by the B174W Front View Camera - Windshield to indicate the ON and OFF status of the lane keep assist system. When the system has been enabled by the lane keep assist switch, the B174W Front View Camera - Windshield applies ground to the switch indicator via serial data and illuminates the LED. The location of the lane keep assist switch can vary with different vehicles. For the exact location please refer to the vehicle owner's manual.

Infotainment system
The radio controls the audible alert for the lane keep assist. If the vehicle has unintentionally left the lane, the radio will command three beeps as an audible alert to the driver.

Safety Alert Seat (with HS1)
The K9 Body Control Module (without A45) or K40D Driver Seat Adjuster Memory Module (with A45) controls the haptic alert provided by the seats. If the vehicle has unintentionally left the lane and the K43 Power Steering Control Module determines the corrective action requires an above threshold amount of effort, three pulses to the left or right side of the seat will be commanded, depending on the lane departure direction.

Lane Keep Assist Operation

Lane keep assist with lane departure warning provides gentle steering wheel input and alerts to help prevent drivers from unintentionally drifting out of their intended lane.

There is two stages of warning/intervention for the driver: The first stage is the steering push back, if the lane keep assist system detects that the vehicle will cross the lane marking despite it is intervening, a second stage warning shall be issued. The second stage warning is a chime or a haptic alert through the safety alert seat (if equipped). If a haptic seat vibration is used as stage 2 warning, the vibration will occur on the side of the seat, where the lane departure occurred.

System operation can be described by the following modes:

- Off State: The system has been turned off by the driver using the lane keep assist switch. The lane keep assist indicator will not be illuminated.
- Not Ready To Assist: The system is enabled and the lane keep assist indicator is illuminated, but not ready to assist when any of the following conditions is true:
  - Vehicle speed is less than required for lane keep assist operation. Refer to Owner's Manual for operational speed.
  - The system cannot detect lane markings. This may be because there are no lane markings, as on a country road or that the lane markings cannot be determined due to snow, rain, or other driving conditions.
  - The windshield area in front of the camera or the camera lens is blocked by fog, dirt, damage to the windshield or other elements that may prevent the camera from detecting lane markings.
- Ready To Assist: The system is enabled and ready to warn of the unintentional lane crossing. The system is ready to assist when the green lane keep assist indicator is illuminated on the P16 Instrument Cluster.

Lane Crossing Alerts

- When one of the following conditions are met, the system will not give alerts:
  - The correct turn signal is activated. An activated turn signal is interpreted as an intentional lane crossing.
  - The operator makes an intentional steering maneuver.
  - The operator makes an intentional accelerating maneuver.
  - The operator makes an intentional braking maneuver.
- Lane crossing alert consists of the following:
  - The amber lane keep assist indicator will flash.
  - "push-back" steering torque input (or nudge) from electric power steering to help prevent a lane departure
  - Three chimes are activated through the radio or three pulses to the left or right side of the active safety seat (if equipped).

Safety Alert Seat Description and Operation

The safety alert seat uses pulsing driver seat vibrations to intuitively communicate the direction of a possible crash threat. Two P45 Seat Haptic Movement Motors are utilized to create the vibration and are located on the left and right sides of the seat cushion. Utilizing two motors allows the vibration to be localized to the left or right side of the seat, depending on the side of the vehicle generating the alert, or to vibrate both simultaneously.

Note: The following systems may not be available on all vehicles.

The following systems utilize the safety alert seat:

- Lane Departure Warning and Lane Keep Assist – Utilizes left or right-side pulses to alert drivers if they unintentionally drift out of their lane
- Rear Cross Traffic Alert – Utilizes left or right-side pulses to the direction of an approaching vehicle
- Forward Collision Alert – Simultaneously pulses on both sides to warn drivers of a possible collision with the vehicle that they're following
- Front Pedestrian Braking – Simultaneously pulses on both sides to warn drivers of a possible collision with a pedestrian
- Front Parking Assist, Rear Parking Assist, and Backing Warning (part of the Rear Automatic Braking system) – Simultaneously pulses on both sides to warn drivers of a possible low-speed collision

Safety Alert Seat Components

The active safety seat utilizes the following components:

- K40 Seat Memory Control Module
- P45LR Seat Haptic Movement Motor — Driver Left Rear
- P45RR Seat Haptic Movement Motor — Driver Right Rear

K40 Seat Memory Control Module

The K40 Seat Memory Control Module receives serial data messages from other modules and

provides voltage to control the P45 Seat Haptic Movement Motors. The K40 Seat Memory Control Module will pulse the left, right, or both P45 Seat Haptic Movement Motors with the number of pulses requested over serial data. The K40 Seat Memory Control Module monitors the control circuits for open, short to ground, and short to voltage conditions and will set DTCs if a circuit fault is detected.

P45 Seat Haptic Movement Motor
The P45 Seat Haptic Movement Motor is DC motor located in the driver's seat bottom cushion. Two P45 Seat Haptic Movement Motors are used in the seat bottom cushion, positioned on the left and right side. An offset weight is attached to the motor. When activated, the spinning offset weight creates a vibration felt by the driver through the seat cushion.

Each P45 Seat Haptic Movement Motor receives a constant chassis ground. The motor is controlled by the K40 Seat Memory Control Module by providing voltage through a dedicated control circuit. When an alert is required, the K40 Seat Memory Control Module will apply voltage, activating the P45 Seat Haptic Movement Motor

Side Blind Zone Alert Description and Operation

The side blind zone alert system detects and reports "objects of interest" on either side of the vehicle, within a specified "blind spot" zone. The system is designed to alert the driver, with a visual display placed on the side view mirror, to the presence of objects of interest that may not be visible in the inside rearview mirror and outside rear view mirrors. Although this system is intended to help drivers avoid lane change collisions, it does not replace driver vision and therefore should be considered a lane change aid. Even with the side blind zone alert system, the driver must check carefully for objects outside of the reporting zone (e.g., a fast approaching vehicle) before changing lanes. In the event that the system senses a malfunction through its diagnostic routines, the system will be disabled and the driver will be visually notified.

When the system detects a vehicle in the side blind zone while driving forward, an amber warning symbol will light up in the appropriate outside mirror. This indicates that it may be unsafe to change lanes. If the driver then activates the turn signal, the amber warning symbol starts flashing as an extra warning not to change lanes.

Side blind zone alert is active when the vehicle is out of par, or the parking brake is off on manual transmission vehicles and at speeds up to approximately 140 km/h (87 MPH). If a vehicle is detected in the blind zone, the warning symbols will turn illuminate on the appropriate side. When the vehicle is started, both outside mirror displays will briefly come on to indicate that the system is operating. The warning symbols will vary brightness based on the ambient light conditions.

The side blind zone alert system is made up of the following components:

- B218L Side Object Sensor Module – Left
- B218R Side Object Sensor Module – Right
- A9A Outside Rearview Mirror – Driver
- A9B Outside Rearview Mirror – Passenger
- Safety Alert Seat (HS1)

B218 Side Object Sensor Module
The B218L Side Object Sensor Module – Left and B218R Side Object Sensor Module – Right are located on each side of the vehicle behind the rear fascia and are not directly visible from outside the vehicle. The B218 Side Object Sensor Modules use radar to determine the presence of objects nearby. When an object is detected in the side blind zone, the appropriate B218R Side Object Sensor Module – Right supplies voltage to illuminate the visual indicator on the appropriate A9 Outside Rearview Mirror. Each B218 Side Object Sensor Module is supplied B+ and ground. Both B218 Side Object Sensor Modules communicates with the vehicle via serial data.

A9 Outside Rearview Mirror
The A9A Outside Rearview Mirror – Driver and A9B Outside Rearview Mirror – Passenger each contain an icon that is backlit with high intensity, amber-colored LED's located on the mirror surface. The display brightness adapts to day/night conditions. The side blind zone alert indicator icon in the appropriate A9 Outside Rearview Mirror is illuminated if the specific B218 Side Object Sensor Module detects a vehicle in the side blind zone to inform the driver that there is a vehicle driving in the blind spot zone.

Safety Alert Seat (HS1)
The K40 Seat Memory 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 K40 Seat Memory Control Module will command pulses to the P45LR Seat Haptic Movement Motor – Driver Left Rear or P45RR Seat Haptic Movement Motor – Driver Right Rear, depending on the location of the object, as an alert to the driver.

Side Blind Zone Alert Operation

When the vehicle is started, both A9 Outside Rearview Mirror indicators will briefly come on to indicate that the system is operating. The system is designed to detect objects of interest as small as a 125cc motorcycle with rider. The detection zone starts at the outside rearview mirror and extends out to 3.5 m (11 ft) at the back corner of the vehicle and 3 m (10 ft) behind the vehicle at a height of 0.5 m (1.5 ft) and 2.0 m (6 ft) above the ground. The system may illuminate an indicator due to guardrails, signs, trees, shrubs, and other non-moving objects. This is normal system operation; the vehicle does not need service.

When the system detects a vehicle in the side blind zone or lane change alert area while driving forward, independent if passing a vehicle or being passed, an amber warning symbol will light up in the appropriate A9 Outside Rearview Mirror. This indicates that it may be unsafe to change lanes. If the driver then activates the turn signal, the amber warning symbol starts flashing as an extra warning not to change lanes.

Foul weather may affect the operation of the side blind zone and lane change alert systems. Occasional missed alerts can occur under normal circumstances and will increase in wet conditions. The number of missed alerts will increase with increased rainfall or road spray. Heavy rainfall, as well as mud, dirt, snow, ice, or slush build-up on the rear fascia, can completely disable the system.

If the vehicle is towing a trailer or has an object such as a bicycle rack attached to the rear of the vehicle, the side blind zone and lane change alert systems may not function properly and the indicators may illuminate intermittently or remain illuminated all the time.

Lane Change Alert Operation

An integrated function of the side blind zone alert system is lane change alert. Lane change alert supplements the side blind zone alert system by detecting approaching vehicles on either side of the vehicle that may not yet be in the side blind zone alert area. The detection zone for lane change alert starts at the outside rearview mirror and extends out to 3.5 m (11 ft) at the back corner of the vehicle and 70 m (230 ft) behind the vehicle at a height between 0.5 m (1.5 ft) and 2.0 m (6 ft) above the ground.

Rear Cross Traffic Alert Operation

Rear cross traffic alert displays a red warning triangle with a left or right pointing arrow on the infotainment display to warn of traffic coming from the left or right. This system detects objects coming from up to 20 m (65 ft) from the left or right side of the vehicle. When an object is detected, either three beeps sound from the left or right or three safety alert seat pulses occur on the left or right side, depending on the direction of the detected vehicle.

Driver Information Center Messages

SIDE BLIND ZONE ALERT OFF

This message indicates that the system has been disabled through the driver information center. Refer to the vehicle owner's manual for instructions on how to set personalization options on the driver information center.

SERVICE SIDE DETECTION SYSTEM

This message indicates that the system requires service. When the message is displayed, the indicators will remain illuminated at all times, notifying the driver that the side blind zone system should not be relied upon when changing lanes. Since the sensors are also used for rear cross traffic alert, this feature will also be inoperative.

SIDE DETECTION SYSTEM TEMPORARILY UNAVAILABLE

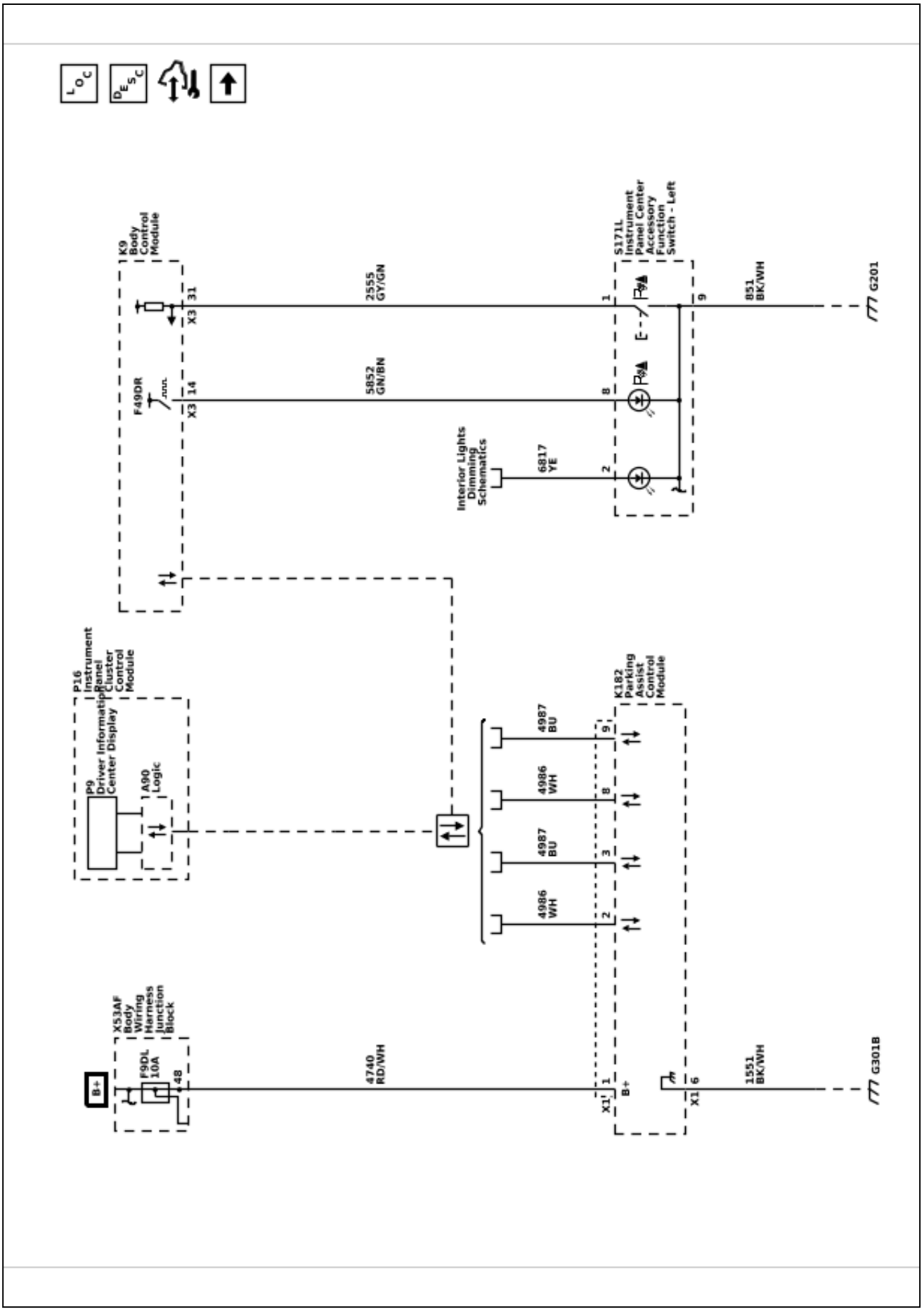
This message indicates that the system has been temporarily disabled because the sensor is blocked or can otherwise not accurately detect vehicles or objects. Examples are snow, ice, or slush build-up or mud or dirt packed into the sensor area. A "Side Detection System Temporarily Unavailable" message will be displayed on the driver information center. The side blind zone system transitions back to the normal operating state when the blockage is removed. Bumper sticks, fascia damage, labels, and heavy rain may also cause this condition. The blockage determination is performed with the vehicle in a drive gear. After the blockage is removed, it may take 3-4 hours of driving to establish normal system function. Do not replace any components if a "Side Detection System Temporarily Unavailable" message is displayed until it is confirmed that clearing a blockage did not correct the concern.

The rear cross traffic alert system will read the GPS latitude and longitude on the serial data bus and calculate if the vehicle is within a Radio Astronomy zone. These zones are located in Europe and Japan and require the sensors to be turned off. The "Side Detection System Unavailable" message will be displayed to the driver when this occurs.

Parking Assistance Systems

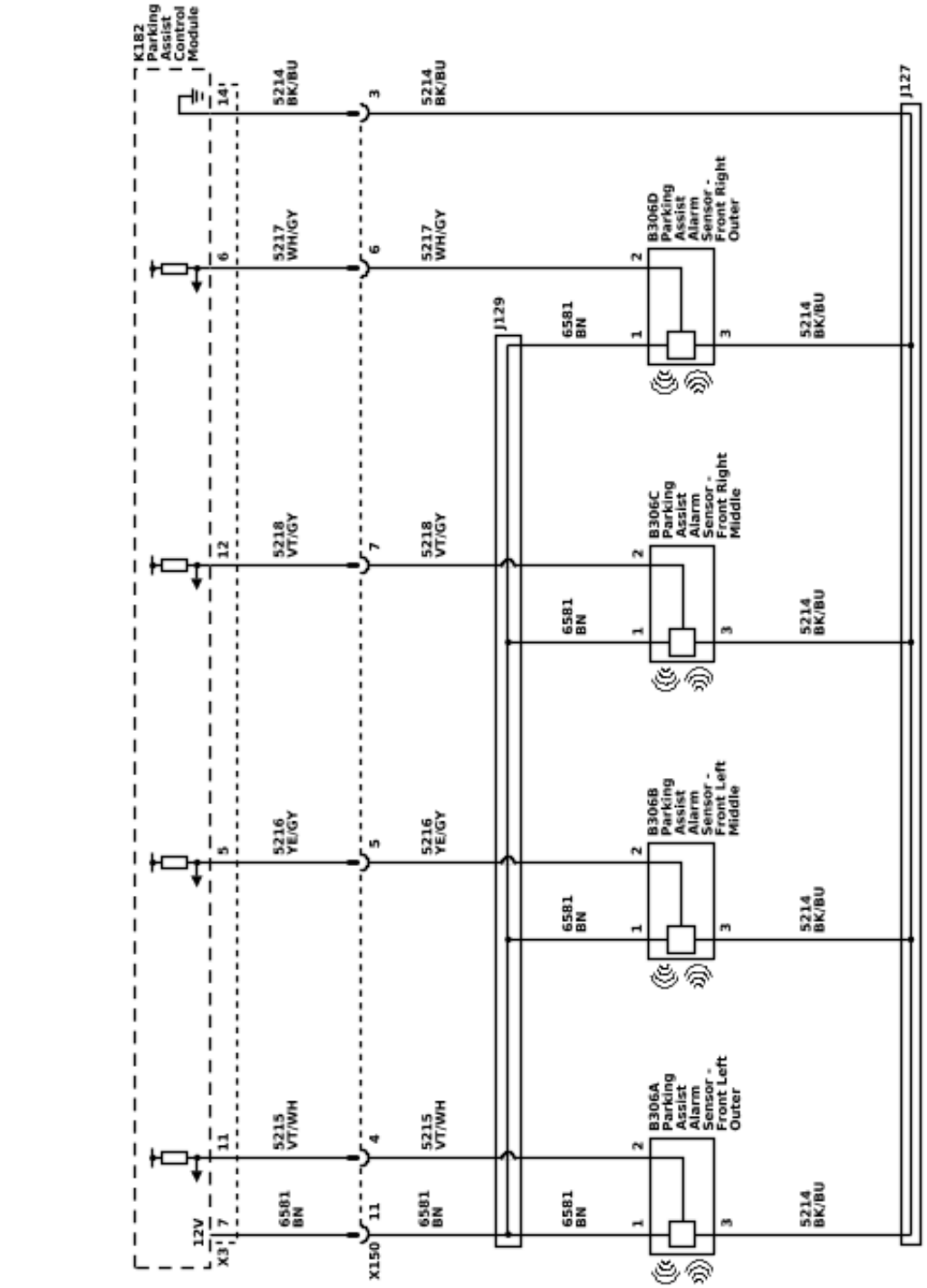
Schematic and Routing Diagrams

Parking Assistance Systems Schematics (Park Assist - Power, Ground, Serial Data, and Control (UD5 / UD7))

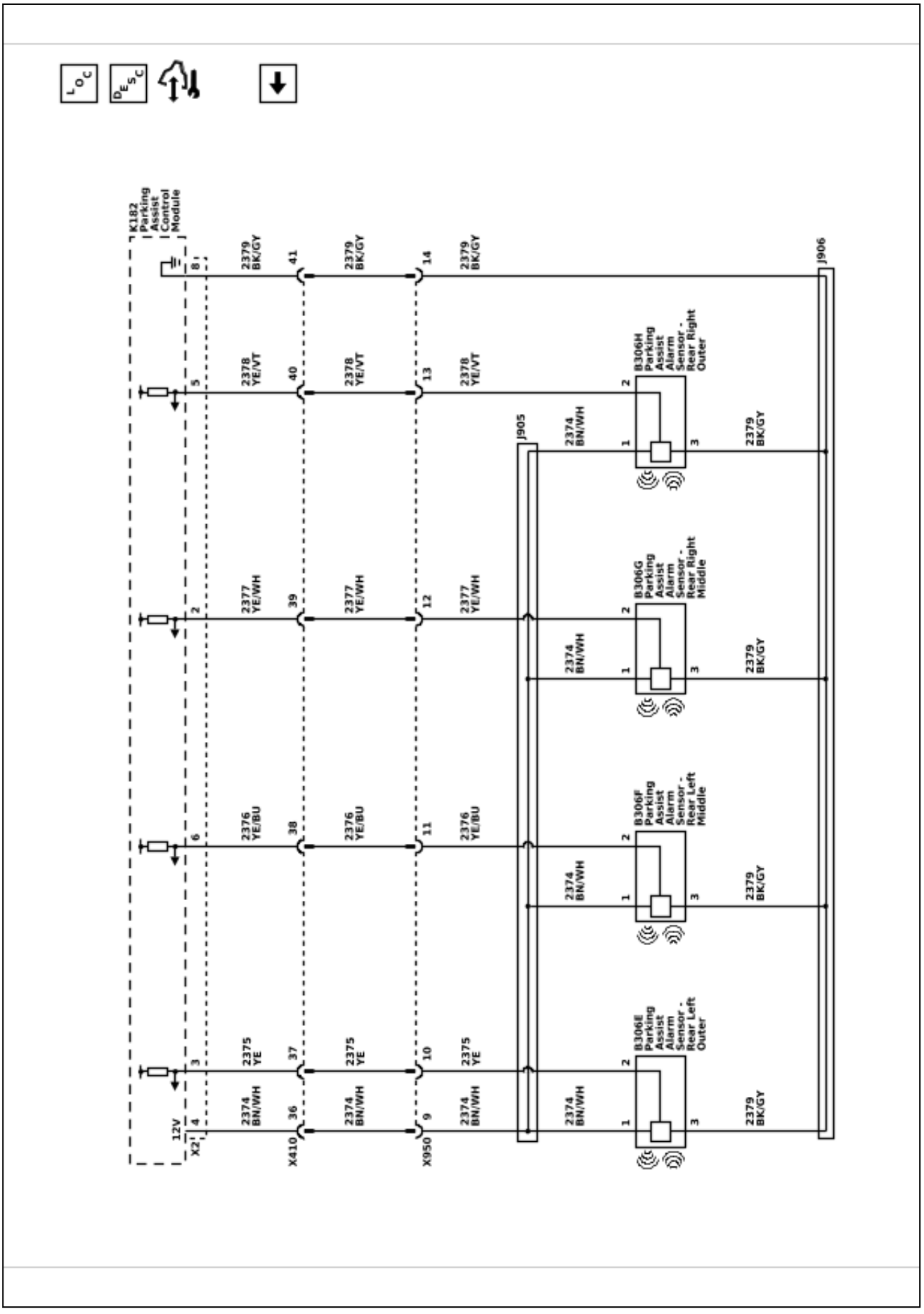


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Parking Assistance Systems Schematics (Park Assist - Front Sensors (UD5))



Parking Assistance Systems Schematics (Park Assist - Rear Sensors (UD5 / UD7))



Description and Operation

Parking Assist Description and Operation (UD7)

The parking assist system is designed to identify and notify the driver of an object in the vehicle path when reversing at speeds of less than 8 km/h (5 mph). The distance and location of the object is determined by four object sensors located in the rear fascia The parking assist system will notify the driver using audible beeps through the infotainment system. Some vehicles may also have a parking assist display on the infotainment screen or driver information center to graphically display the distance to an object.

The parking assist system is made up of the following components:

- K182 Parking Assist Control Module
- B306 Parking Assist Sensors
- Parking Assist Switch
- Parking Assist Switch Indicator
- Infotainment system

K182 Parking Assist Control Module

The K182 Parking Assist Control Module provides a reference voltage and a low reference to the B306 Parking Assist Sensors. The K182 Parking Assist Control Module receives individual signals from each of the four B306 Parking Assist 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.

B306 Parking Assist Sensors

The B306 Parking Assist 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.

Parking Assist Switch

The parking assist system can be activated and deactivated by pressing the parking assist switch. The K182 Parking Assist 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 K182 Parking Assist 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 K182 Parking Assist Control Module is low. The K182 Parking Assist Control Module will respond to this by activating or deactivating the parking assist function.

Parking Assist Switch Indicator

When the parking assist system is enabled, the K182 Parking Assist Control Module will illuminate the indicator on the switch. The indicator receives voltage through a high control circuit from the K9 Body Control Module and is controlled through a low control circuit by the K182 Parking Assist Control Module.

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

When an object is within the measuring range of the B306 Parking Assist 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. As soon as an object is within the measuring range, the K182 Parking Assist Control Module sends a message via serial data to the infotainment system to provide an audible alert signal.

The parking assist system can detect objects greater than 7.6 cm (3 in) wide and 25.4 cm (10 in) tall. The system cannot detect objects below the bumper or underneath the vehicle.

When the transmission is in R, parking assist is automatically activated, unless disable through vehicle personalization.

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 PARK ASSIST

The driver information center displays SERVICE PARK ASSIST when the K182 Parking Assist Control Module detects a malfunction in the parking assist system and the system is disabled. The driver information center also displays SERVICE PARK ASSIST when a loss of communication occurs with the K182 Parking Assist Control Module.

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 that one of the following conditions:

- The parking assist system is manually disabled.
- An object is attached to the rear of the vehicle, such as a trailer, bicycle rack, trailer hitch receiver, or tow bar. Also, an object extending beyond a lowered tailgate will disable the system.
- The parking assist sensors are covered by snow, mud, dirt, slush, or ice.
- The vehicle rear fascia is damaged.
- Excessive paint thickness on a replacement B306 Parking Assist Sensor.
- The B306 Parking Assist Sensors are disrupted by vibrations, like those caused by a large nearby vehicle or from heavy equipment such as a jackhammer.

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 4 object sensors located in the rear fascia and 4 object sensors located in the front 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 moving forward or backing up. 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 Sensors
- Parking Assist Switch
- Parking Assist Switch Indicator
- Safety Alert Seat (HS1)
- Infotainment system

K182 Parking Assist Control Module
The K182 Parking Assist Control Module provides a reference voltage and a low reference to the B306 Parking Assist Sensors. The K182 Parking Assist Control Module receives individual signals from each of the four B306 Parking Assist 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.

B306 Parking Assist Sensors
The B306 Parking Assist 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.

Parking Assist Switch
The parking assist system can be activated and deactivated by pressing the parking assist switch. The K182 Parking Assist 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 K182 Parking Assist 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 K182 Parking Assist Control Module is low. The K182 Parking Assist Control Module will respond to this by activating or deactivating the parking assist function.

Parking Assist Switch Indicator
When the parking assist system is enabled, the K182 Parking Assist Control Module will illuminate the indicator on the switch. The indicator receives voltage through a high control circuit from the K9 Body Control Module and is controlled through a low control circuit by the K182 Parking Assist Control Module.

Safety Alert Seat (HS1)
The K40 Seat Memory 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 K40 Seat Memory Control 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.

Front and Rear Parking Assist Operation

The rear parking assist system uses 4 B306 Parking Assist Sensors located on the rear fascia and functions when the transmission is in REVERSE. When a driver is backing up at a low speed, below 8 km/h (5 mph), the B306 Parking Assist Sensors may detect objects up to 8 feet (2.4 m) behind the vehicle. When an object is within the measuring range of the B306 Parking Assist 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 first detected while backing up, the parking assist system emits low-pitched beeps from the rear speakers, or, if the vehicle is equipped with the Safety Alert Seat (HS1), the seat pulses 2 times on both sides of the seat. On some vehicles, the time between beeps may get shorter as the vehicle approaches the detected object . When an object is within 0.6 m (2 ft) of the bumper, 5 repeating low-pitched beeps are played from the rear speakers, or, if the vehicle is equipped with the Safety Alert Seat (HS1), it pulses 5 times on both sides. When an object is within 0.3 m (1 ft) of the bumper, repeating low-pitched beeps or a continuous low-pitched tone is played from the rear speakers, or, if the vehicle is equipped with the Safety Alert Seat (HS1), the seat pulses 5 times on both sides

The front parking assist system uses 4 B306 Parking Assist 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, below 8 km/h (5 mph), the B306 Parking Assist Sensors may detect objects up to 8 feet (2.4 m) in front og the vehicle. When an object is within the measuring range of the B306 Parking Assist 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.

The front parking assist system uses a parking assist display 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.

When an object is within 0.3 m (1 ft) of the bumper, repeating low-pitched beeps or a continuous low-pitched tone is played from the rear speakers, or, if the vehicle is equipped with the Safety Alert Seat (HS1), the seat pulses 5 times on both sides

The parking assist system can be turned ON and OFF using the parking assist switch control or through driver information center.

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 PARK ASSIST

The driver information center displays SERVICE PARK ASSIST when the K182 Parking Assist Control Module detects a malfunction in the parking assist system and the system is disabled. The driver information center also displays SERVICE PARK ASSIST when a loss of communication occurs with the K182 Parking Assist Control Module.

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 that one of the following conditions:

- The parking assist system is manually disabled.
- An object is attached to the rear of the vehicle, such as a trailer, bicycle rack, trailer hitch receiver, or tow bar. Also, an object extending beyond a lowered tailgate will disable the system.
- The B306 Parking Assist Sensors are covered by snow, mud, dirt, slush, or ice.
- The vehicle front or rear fascia is damaged.
- Excessive paint thickness on a replacement B306 Parking Assist Sensor.
- The B306 Parking Assist Sensors are disrupted by vibrations, like those caused by a large nearby vehicle or from heavy equipment such as a jackhammer.

Section 8

Transmission

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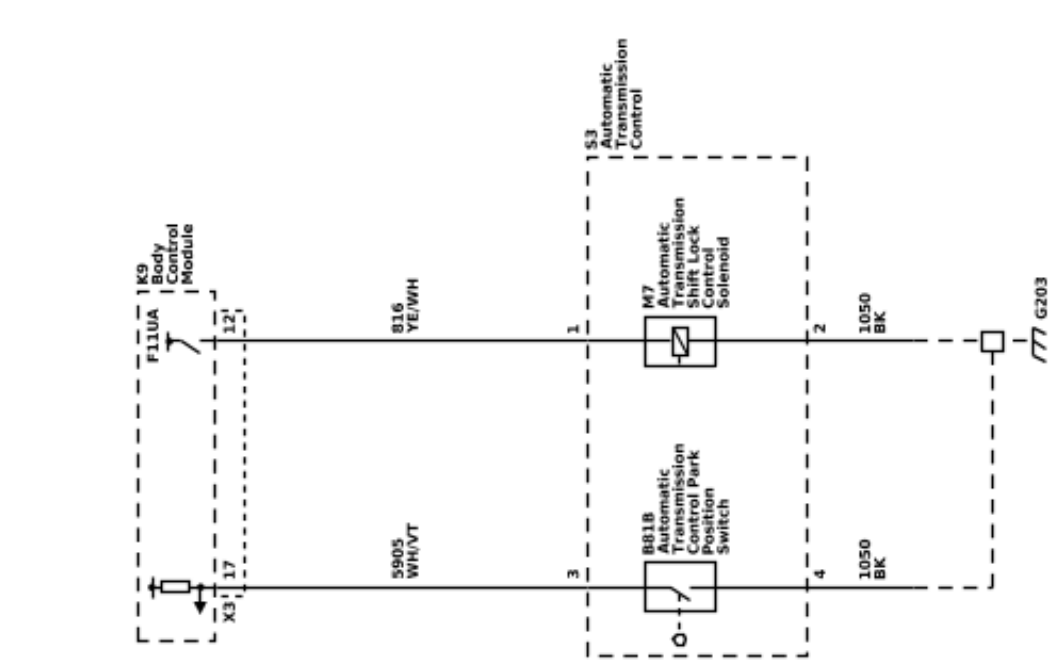
Transmission

Shift Lock Control

Schematic and Routing Diagrams

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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 though 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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