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Section 1

General Information

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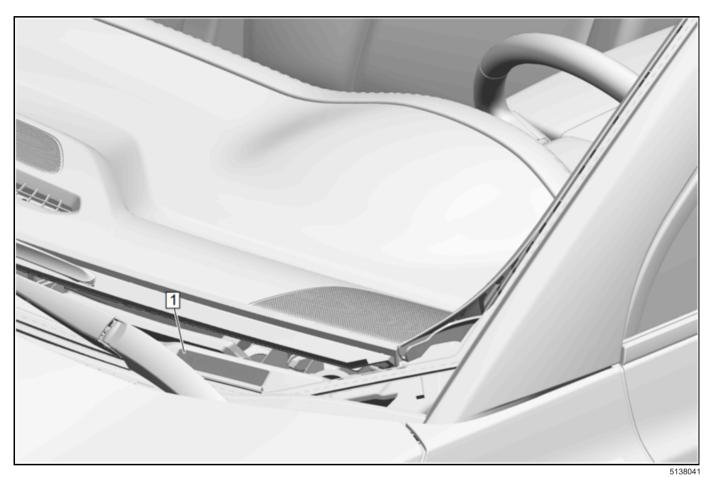
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General Information

Introduction

Vehicle, Engine and Transmission ID and VIN Location, Derivative and Usage (GMC)



The VIN plate is the legal identifier of the vehicle. The VIN plate (1) is located on the upper left corner of the instrument panel (I/P) and can be seen through the windshield from the outside of the vehicle:

ner of the

Vehicle Identification Number (VIN) System

Position	Definition	Character	Description
	Region of Build	1	United States
ı		7	United States
2 Man	Manufacturer	G	General Motors
		G	Navistar Inc. (7GZ Only)
3	Vehicle Brand/Type	D	GMC Incomplete Truck
		J	GMC Bus (Non School Bus)
		Т	GMC Truck
		Z	GMC Incomplete Truck (Navistar Only)

Vehicle Identification Number (VIN) System (cont'd)

Position	Definition	Character	Description
			8,001–9,000 lbs/Hydraulic/CargoVan/Four Door Cab/
		W	Utility or Passenger Van
		Y	8,001–9,000 lbs/Hydraulic/Commercial Special Cutaway, Two Door Cab pick-up or Motor Home Chassis
		Z	9,001–10,000 lbs/Hydraulic/CargoVan/Four Door Cab/ Utility or Passenger Van
4	GVWR/Brake System/Body Style	0	9,001–10,000 lbs/Hydraulic/Commercial Special Cutaway, Two Door Cab pick-up or Motor Home Chassis
		3	10,001–14,000 lbs/Hydraulic/Commercial Special Cutaway, Two Door Cab pick-up or Motor Home Chassis
		6	14,001–16,000 lbs/Hydraulic/Commercial Special Cutaway, Two Door Cab pick-up or Motor Home Chassis
		7/A	GMC Savana, 2500 Cargo
		7/B	GMC Savana, 2500 Cargo EXT
		7/E	GMC Savana, 2500 Passenger LS
		7/F	GMC Savana, 2500 Passenger LT
		7/G	GMC Savana, 3500 Cargo
		7/H	GMC Savana, 3500 Cargo EXT
	Chassis/Series	7/L	GMC Savana, 3500 Passenger LS
		7/M	GMC Savana, 3500 Passenger LT
5–6		7/N	GMC Savana, 3500 Passenger LS EXT
		7/P	GMC Savana, 3500 Passenger LT EXT
		7/R	GMC Savana, 3500 Cutaway 139" Wheelbase
		7/S	GMC Savana, 3500 Cutaway 159" Wheelbase
		7/T	GMC Savana, 3500 Cutaway 177" Wheelbase
		7/U	GMC Savana, 4500 Cutaway 159" Wheelbase
		7/V	GMC Savana, 4500 Cutaway 177" Wheelbase
		7/9	GMC Savana (Non-US, Non-Canada)
		В	AJ3 - Active Manual Belts, Airbag - Driver only - Front
	Restraint System	С	AK5 – Active Manual Belts, Airbag – Driver and Passenger – Front (1st row)
7		F	AK5 & ASF – Active Manual Belts, Airbags - Driver & Passenger - Front (1st row), Front Seat Side (1st row), Roof Side (All seating rows for vehicles with 3 or fewer seating rows; 1st, 2nd and 3rd row for vehicles with 4 or more seating rows)
		Н	AJ3 & ASF — Active Manual belts, Airbag - Driver only - Front, Front Seat Side (1st row), Roof Side (All seating rows for vehicles with 3 or fewer seating rows; 1st, 2nd and 3rd row for vehicles with 4 or more seating rows)
0	Engine Turns	Р	RPO LV1 – Engine Gas, 6 CYL, 4.3L, SIDI, V6, VVT, E85 MAX, Iron
8	Engine Type	7	mL8T - ENGINE GAS, 8 CYL, 6.6L, SIDI, VVT, CAST IRON
9	9 Check Digit		Check Digit
10	Model Year	Р	2023

Vehicle Identification Number (VIN) System (cont'd)

Position	Definition	Character	Description
11	11 Plant Location		Wentzville
''	Plant Location	N	Springfield
12–17	Plant Sequence Number	_	Plant Sequence Number

4.3L RPO LV1 Engine ID and VIN Derivative Location

Engine Identification

6.6L RPO L8T Engine ID and VIN Derivative Location

Engine Identification

6L90 (MYD) Transmission ID and VIN Derivative Location

Transmission Identification Information

8L90 (M5U) Transmission ID and VIN Derivative Location

Transmission Identification Information

Vehicle, Engine and Transmission ID and VIN Location, Derivative and Usage (Chevrolet)



The VIN plate is the legal identifier of the vehicle. The VIN plate (1) is located on the upper left corner of the instrument panel (I/P) and can be seen through the windshield from the outside of the vehicle:

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Vehicle Identification Number (VIN) System

Position	Definition	Character	Description
1	Region of Build	1	United States
0	Manufacturar	G	General Motors
2	Manufacturer	Н	Navistar Inc.
		А	Chevrolet Bus (Non School Bus)
3	Vehicle Brand/Type	В	Chevrolet Incomplete Truck
3	verlicie Brand/Type	С	Chevrolet Truck
		А	Chevrolet Incomplete Truck (Navistar Only)
		W	8,001–9,000 lbs/Hydraulic/Cargo Van/Four Door Cab/ Utility or Passenger Van
		Υ	8,001–9,000 lbs/Hydraulic/Commercial Special Cutaway, Two Door Cab pick-up or Motor Home Chassis
		Z	9,001–10,000 lbs/Hydraulic/Cargo Van/Four Door Cab/ Utility or Passenger Van
4	GVWR/Brake System/Body Style	0	9,001–10,000 lbs/Hydraulic/Commercial Special Cutaway, Two Door Cab pick-up or Motor Home Chassis
		3	10,001–14,000 lbs/HydraulicCommercial Special Cutaway, Two Door Cab pick-up or Motor Home Chassis
		6	14,001–16,000 lbs/Hydraulic/Commercial Special Cutaway, Two Door Cab pick-up or Motor Home Chassis
		G/A	Chevrolet Express, 2500 Cargo
		G/B	Chevrolet Express, 2500 Cargo EXT
		G/E	Chevrolet Express, 2500 Passenger LS
		G/F	Chevrolet Express, 2500 Passenger LT
		G/G	Chevrolet Express, 3500 Cargo
		G/H	Chevrolet Express, 3500 Cargo EXT
		G/L	Chevrolet Express, 3500 Passenger LS
		G/M	Chevrolet Express, 3500 Passenger LT
5–6	Chassis/Series	G/N	Chevrolet Express, 3500 Passenger LS EXT
		G/P	Chevrolet Express, 3500 Passenger LT EXT
		G/R	Chevrolet Express, 3500 Cutaway 139" Wheelbase
		G/S	Chevrolet Express, 3500 Cutaway 159" Wheelbase
		G/T	4x2, Chevrolet Express, 3500 Cutaway 177" Wheelbase
		G/U	Chevrolet Express, 4500 Cutaway 159" Wheelbase
		G/V	Chevrolet Express, 4500 Cutaway 177" Wheelbase
		G/9	Chevrolet Express (Non-US, Non-Canada)

Vehicle Identification Number (VIN) System (cont'd)

Position	Definition	Character	Description
	Restraint System	В	AJ3 - Active Manual Belts, Airbag - Driver only - Front
		С	AK5 – Active Manual Belts, Airbag-Driver & Passenger-Front – Front (1st row)
7		F	AK5 & ASF – Active Manual Belts, Airbags - Driver & Passenger - Front (1st row), Front Seat Side (1st row), Roof Side (All seating rows for vehicles with 3 or fewer seating rows; 1st, 2nd and 3rd row for vehicles with 4 or more seating rows)
		н	AJ3 & ASF - Active Manual Belts, Airbag - Driver only - Front, Front Seat Side (1st row), Roof Side (All seating rows for vehicles with 3 or fewer seating rows; 1st, 2nd and 3rd row for vehicles with 4 or more seating rows)
	Engine Time	Р	RPO LV1 – Engine Gas, 6 CYL, 4.3L, SIDI, V6, VVT, E85 MAX, Iron
8	Engine Type	7	L8T - ENGINE GAS, 8 CYL, 6.6L, SIDI, VVT, CAST IRON
9	Check Digit	_	Check Digit
10	Model Year	Р	2023
44	Plant Location	1	Wentzville
11		N	Springfield
12–17	Plant Sequence Number		Plant Sequence Number

4.3L RPO LV1 Engine ID and VIN Derivative Location

Engine Identification

6.6L RPO L8T Engine ID and VIN Derivative Location

Engine Identification

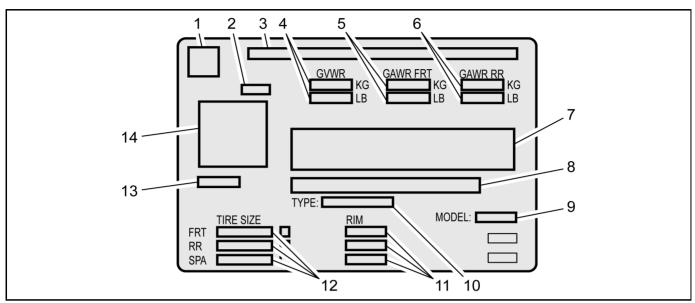
6L90 (MYD) Transmission ID and VIN Derivative Location

Transmission Identification Information

8L90 (M5U) Transmission ID and VIN Derivative Location

Transmission Identification Information

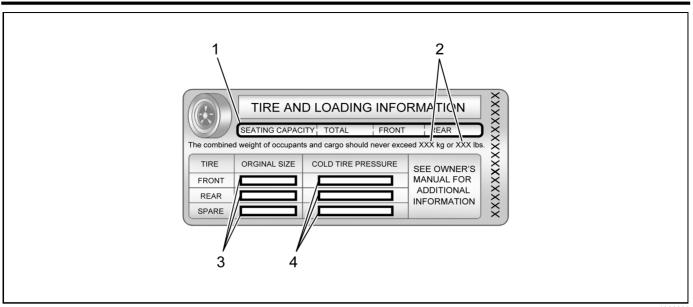
Vehicle Certification, Tire Placard, and Anti-Theft Label



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Vehicle Certification Label

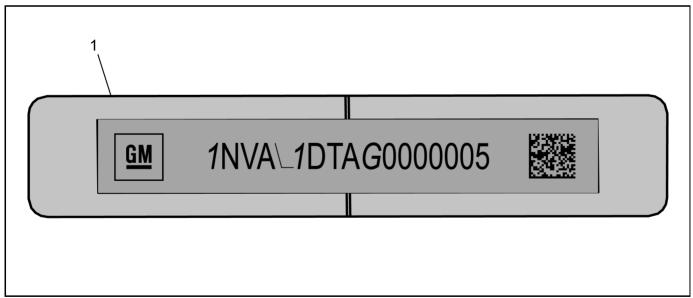
Callout	Description		
A vehicle-spe	A vehicle-specific Certification label is attached to the vehicle's center pillar (B-pillar) and displays the following assessments:		
1	Logo		
2	Final Date of Manufacture (Month and Year MM/YY) Date of manufacture is to reflect the date that the vehicle is counted 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)		



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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	pecified 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 til 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.

	ne Service Parts Identification Label.
RPO	Description
01U	PRIMARY COLOR-EXTERIOR, SPECIAL (02)
06Z	IDENTIFICATION-NOT EQUIPPED WITH BATTERY CURRENT SENSING
40P	WHEEL COLOR-WHITE (91)
52G	TRIM COMBINATION-CLOTH, MED NEUTRAL II (G) (00)
521	INTERIOR TRIM-MED NEUTRAL II (I) (96)
52W	TRIM COMBINATION-VINYL, MED NEUTRAL II (W) (00)
5A1	HVAC PROVISIONS-CONTROL HEAD, RR A/C (SEO)
5AZ	ACCESSORY-SAFETY KIT - UNIVERSAL
5B6	SEAT BELT COLOR-BLACK (SEO)
5B8	COVERING FLOOR-VINYL, FRT & RR (SEO) (DUP W/B38)
5C4	SPRING-FRONT SUSPENSION, COMPUTER SELECTED, UPGRADE (SEO)
5C6	HOOK-CARGO TIE-DN
5D3	CALIBRATION-EXTENDED BATTERY RUN DOWN, INADVERENT POWER DELAY (SEO)
5F1	CALIBRATION-SUPPRESSION, ENG OIL CHANGE INDICATOR (WITH FUEL INFO) (SEO)
5F2	CALIBRATION-SUPPRESSION, ENG OIL CHANGE IND (WITHOUT FUEL INFO) (SEO)
5G0	WHEEL COLOR-BLACK (SEO)
5G8	CALIBRATION-ACTIVATION 'ON', TOW/ HAUL MODE (SEO)
5H1	KEY-SINGLE KEY SYSTEM, 2 SPARE KEYS
5H3	ORNAMENTATION-NAMEPLATE - NONE (SEO)
5H5	FIRE EXTINGUISHER-2.50 LB OR EQUIV (SEO)
5H6	KIT-SAFETY REFLECTOR TRIANGLES
5L3	PANEL-TRIM, INTERIOR (SEO)
5L5	THEFT DETERENT SYS-FLEET IMMOBILIZER MODIFICATIONS (SEO)
5Q7	PANEL-TRIM-SAIL, NONE (SEO)

RPO	Description
5T5	SEAT OVERRIDE-(SEO)
5Z5	HUBCAPS-(NONE) (SEO)
6M2	MIRROR O/S-LH & RH, MANUAL CONTROL, AUX WFOV, SHORT ARM, COLOR (SEO)
77S	LABEL, REGULATORY-CALIFORNIA, SECTION 177 STATES
7T6	FUEL-FITTING, LINE TAKE-OFF (SEO)
8D8	MIRROR O/S-PROVISIONS ONLY, FOR AFTER MARKET POWER MIRROR (SEO)
8E1	FUEL-ADDITIONAL - 3 GALLONS (SEO)
8E9	BUMPER FRT-PAINTED, WHITE (SEO)
8G8	LAMP-CARGO OVERHEAD LED (SEO)
8N2	SEAT BELT COLOR-ORANGE (SEO)
8R2	VALVE-LONG STEM, 3 3/8 IN (SEO)
8R3	VALVE-METAL (SEO)
8R7	FUEL TANK FILLER-NECK, LOWERED (FOR 96 INCH BODY WIDTH) (SEO)
8S3	ALARM B/U-ELECTRICAL, 97 DECIBELS (SEO)
8S8	WIRING PROVISIONS-ODOMETER SECURITY (SEO)
8T2	WIRING PROVISIONS-RH DOOR DELETE (SEO)
8X8	LABEL INFORMATION-LABEL, FASTEN SEAT BELTS (SEO)
93B	TRIM COMBINATION-CLOTH, JET BLACK/ MED DK PEWTER (SEO)
93G	TRIM COMBINATION-CLOTH, MED DK PEWTER II (G) (03) (GMT610 - "G" VAN)
931	INTERIOR TRIM-MED DK PEWTER II (03) (GMT610 - "G" VAN)
93W	TRIM COMBINATION-VINYL, MED DK PEWTER II (W) (03) (GMT610 - "G" VAN)
9B4	CAP-FUEL FILL, W/STAINLESS TETHER (SEO)
9B9	GOVERNOR-VEHICLE TOP SPEED LIMIT - 70 MPH (SEO)
9C2	GOVERNOR-VEHICLE TOP SPEED LIMIT - 65 MPH (SEO)
9C7	CAP-COOLANT RECOVERY BOTTLE WITH TETHER (SEO)
9D7	GOVERNOR-VEHICLE TOP SPEED LIMIT - 75 MPH (SEO)
9E9	GVW RATING-8,600 LBS (SEO)
9EL	GOVERNOR-VEHICLE TOP SPEED LIMIT - 95 MPH

RPO STEERING COLUMN-TILT TYPE (SEO) 9L7 EQUIPMENT-ACSRY WRG JUNC BLK 9Q4 SPRING REAR-LOWERED (SEO) 9R5 SPRING REAR-RECREATIONAL VEHICLE (SEO) 9T7 DOOR-RH - NONE (SEO) 9W3 COLOR-WOODLAND GREEN (SEO) 9W4 COLOR-TANGIER ORANGE, LEAD FREE (SEO) A07 WINDOW-BODY A08 WINDOW-BODY, RH A12 WINDOW SIDE DR-RR, STA A17 WINDOW SIDE DR-RR, STA A17 WINDOW SIDE BODY-SWING OUT, LH A18 WINDOW SIDE DR-RR, SWING OUT A19 WINDOW-POWER OPERATED, ALL DOORS ACO IDENTIFICATION-ACCESSORY CATALOG OFFERING AG1 ADJUSTER FRT ST-POWER, MULTI-DIRECTIONAL, DRIVER AG2 ADJUSTER PASS ST-POWER, MULTI-DIRECTIONAL AJ1 WINDOW TINTED-DEEP, ALL EXCEPT WAND DRS RESTRAINT SYSTEM-SEAT, INFLATABLE
9L7 EQUIPMENT-ACSRY WRG JUNC BLK 9Q4 SPRING REAR-LOWERED (SEO) 9R5 SPRING REAR-RECREATIONAL VEHICLE (SEO) 9T7 DOOR-RH - NONE (SEO) 9V5 COLOR-WOODLAND GREEN (SEO) 9W3 COLOR-WHEATLAND YELLOW, LEAD FREE (SEO) 9W4 COLOR-TANGIER ORANGE, LEAD FREE (SEO) A07 WINDOW-BODY A08 WINDOW-BODY, RH A12 WINDOW RR-DR, STA A13 WINDOW SIDE DR-RR, STA A14 WINDOW SIDE DR-RR, STA A17 WINDOW SIDE BODY-SWING OUT, LH A18 WINDOW RR-DR, SWING OUT A19 WINDOW SIDE DR-RR, SWING OUT A19 WINDOW SIDE DR-RR, SWING OUT A31 DOORS ACO IDENTIFICATION-ACCESSORY CATALOG OFFERING AG1 ADJUSTER FRT ST-POWER, MULTI- DIRECTIONAL, DRIVER AG2 WINDOW TINTED-DEEP, ALL EXCEPT W/ AND DRS
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A13 WINDOW SIDE DR-RR, STA A17 WINDOW SIDE BODY-SWING OUT, LH A18 WINDOW RR-DR, SWING OUT A19 WINDOW SIDE DR-RR, SWING OUT A31 WINDOW-POWER OPERATED, ALL DOORS ACO IDENTIFICATION-ACCESSORY CATALOG OFFERING AG1 ADJUSTER FRT ST-POWER, MULTI- DIRECTIONAL, DRIVER AG2 ADJUSTER PASS ST-POWER, MULTI- DIRECTIONAL AJ1 WINDOW TINTED-DEEP, ALL EXCEPT W/ AND DRS
A17 WINDOW SIDE BODY-SWING OUT, LH A18 WINDOW RR-DR, SWING OUT A19 WINDOW SIDE DR-RR, SWING OUT A31 WINDOW-POWER OPERATED, ALL DOORS ACO IDENTIFICATION-ACCESSORY CATALOG OFFERING AG1 ADJUSTER FRT ST-POWER, MULTI- DIRECTIONAL, DRIVER AG2 ADJUSTER PASS ST-POWER, MULTI- DIRECTIONAL AJ1 WINDOW TINTED-DEEP, ALL EXCEPT W/ AND DRS
A18 WINDOW RR-DR, SWING OUT A19 WINDOW SIDE DR-RR, SWING OUT A31 WINDOW-POWER OPERATED, ALL DOORS ACO IDENTIFICATION-ACCESSORY CATALOG OFFERING AG1 ADJUSTER FRT ST-POWER, MULTI- DIRECTIONAL, DRIVER AG2 ADJUSTER PASS ST-POWER, MULTI- DIRECTIONAL WINDOW TINTED-DEEP, ALL EXCEPT W/ AND DRS
A19 WINDOW SIDE DR-RR, SWING OUT A31 WINDOW-POWER OPERATED, ALL DOORS ACO IDENTIFICATION-ACCESSORY CATALOG OFFERING AG1 ADJUSTER FRT ST-POWER, MULTI- DIRECTIONAL, DRIVER AG2 ADJUSTER PASS ST-POWER, MULTI- DIRECTIONAL WINDOW TINTED-DEEP, ALL EXCEPT W/ AND DRS
A31 WINDOW-POWER OPERATED, ALL DOORS ACO IDENTIFICATION-ACCESSORY CATALOGO OFFERING AG1 ADJUSTER FRT ST-POWER, MULTI-DIRECTIONAL, DRIVER AG2 ADJUSTER PASS ST-POWER, MULTI-DIRECTIONAL WINDOW TINTED-DEEP, ALL EXCEPT WAND DRS
AG2 AG2 AG2 ADJUSTER FRT ST-POWER, MULTI-DIRECTIONAL, DRIVER AG2 ADJUSTER PASS ST-POWER, MULTI-DIRECTIONAL ADJUSTER PASS ST-POWER, MULTI-DIRECTIONAL AJ1 WINDOW TINTED-DEEP, ALL EXCEPT W/AND DRS
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AG1 DIRECTIONAL, DRIVÉR AG2 ADJUSTER PASS ST-POWER, MULTI- DIRECTIONAL AJ1 WINDOW TINTED-DEEP, ALL EXCEPT W/ AND DRS
AJ1 DIRECTIONAL WINDOW TINTED-DEEP, ALL EXCEPT W/ AND DRS
AJT AND DRS
DESTRAINT SVSTEM SEAT INICI ATARI F
AJ3 RESTRAINT SYSTEM-SEAT, INFLATABLE
AJW WINDOW STYLE-LAMINATED
AK5 RESTRAINT SYSTEM-SEAT, INFLATABLE DRIVER & PASS FRT
ANC SALES PACKAGE-SHUTTLE BUS
AR7 SEAT-FRT BKT, STANDARD
AS5 SEAT-FRT BKT, DELUXE,
ASB EQUIPMENT-SECURITY BAR, REAR SIDE DOOR
ASF RESTRAINT-ROOF SIDE (LH & RH), SEA SIDE (FRONT 1ST ROW), INFLATABLE
AT8 RESTRAINT PROVISIONS-CHILD, RR SEAT, RR FACING
ATG LOCK CONTROL, ENTRY-REMOTE ENTRY, STANDARD RANGE
AU3 LOCK CONTROL-SIDE DR, ELEC
AXK VEHICLE TYPE-TRUCK
AXW VEHICLE TYPE-BUS- (NOT SCHOOL BUS
B30 COVERING FLOOR-CARPET
B31 COVERING FLOOR-VINYL, FRT, FULL WIDTH
B32 COVERING FRT-FLOOR MATS, AUX
B33 COVERING REAR-FLOOR MATS, AUX

RPO	Description
B38	COVERING FLOOR-VINYL, FRT & RR, FULL WIDTH
B3D	SALES PACKAGE-SCHOOL BUS
BA0	ORNAMENTATION-EXTR, DOOR, NAMEPLATE
ВА3	COMPARTMENT-STOWAGE, I/P LOWER EXTENSION DELUXE
BAG	PARTS PKG-EXPORT
BNC	PARTS PKG-BODY MOUNT CUSHIONS
BTV	REMOTE START-VEHICLE
BUE	KIT-EXHAUST DIESEL
C36	HEATER-AUXILIARY
C42	HVAC SYSTEM-HEATER, OUTSIDE AIR, DELUXE
C49	DEFOGGER-RR WINDOW, ELECTRIC
C4K	GVW RATING-9,925 LBS
C4M	GVW RATING-9,900 LBS/4,500 KG
C60	HVAC SYSTEM-AIR CONDITIONER FRT, MAN CONTROLS
C69	HVAC SYSTEM RR-AIR CONDITIONER
C6P	GVW RATING-8,600 LBS/3,900 KG
C6Y	GVW RATING-9,600 LBS
C7I	GVW RATING-14,200 LBS.
C7N	GVW RATING-12,300 LBS
C99	SWITCH-INFL RST I/P MDL MAN SUPPRESSION
CGN	LINER-PUBX, SPRAY ON
CK2	COUNTRY-YEMEN
CU7	COUNTRY-KUWAIT
CU8	COUNTRY-SAUDI ARABIA
CV3	COUNTRY-MEXICO
CV4	COUNTRY-ISRAEL
CV8	COUNTRY-IRAQ
CX9	COUNTRY-LEBANON
CY2	COUNTRY-JORDAN
D28	MIRROR O/S-(-NONE)
D2O	COUNTRY-CURACAO
D31	MIRROR I/S R/V-TILT
D3J	COUNTRY-CAYMAN ISLANDS
D3K	COUNTRY-DOMINICAN REPUBLIC
D3L	COUNTRY-EL SALVADOR
D3M	COUNTRY-GUATEMALA
D3P	COUNTRY-HAITI
D3Q	COUNTRY-HONDURAS
D3S	COUNTRY-QATAR
D3U	COUNTRY-ST MAARTEN
D4C	COUNTRY-BAHRAIN
D4G	COUNTRY-BAHAMAS
D4N	COUNTRY-COSTA RICA

1-12 General Information

RPO	Description
D4X	COUNTRY-ARUBA
D5D	COUNTRY-NICARAGUA
D5P	COUNTRY-UNITED ARABIC EMIRATES
DAA	SUNSHADE-VINYL
DE5	MIRROR O/S-LH & RH, REMOTE CONTROL, ELECTRIC, HEATED, FOLDING, COLOR.
DEE	MIRROR O/S-LH & RH, REMOTE CONTROL, ELECTRIC, HEATED, MANUAL FOLDING, TURN SIG IND, (SEO)
DH6	MIRROR I/S FRT VAN-LH & RH, SUNSHADE, ILLUM
DHC	MIRROR O/S-LH & RH, MANUAL CONTROL, AUX WFOV, COLOR
DNS	EQUIPMENT-SUPPLIER INSTALLED
DPU	COUNTRY-BONAIRE
DRJ	MIRROR I/S R/V-TILT, PARTIAL VIDEO DISPLAY
DSB	EQUIPMENT-SECURITY BAR DELETE, REAR SIDE DOOR
E24	DOOR SIDE-REAR, HINGED
E6H	COUNTRY-OMAN
EF5	COUNTRY-PANAMA
EF7	COUNTRY-UNITED STATES OF AMERICA (USA)
ENC	HVAC PROVISIONS-AUXILLIARY HEATER PLUMBING & WIRING
EXP	EXPORT-
FE9	CERTIFICATION-EMISSION, FEDERAL
FHO	VEHICLE FUEL-GASOLINE E10
FHS	VEHICLE FUEL-GASOLINE E85
G7C	PRIMARY COLOR-EXTERIOR, PULL ME OVER RED SOLID (130X)
G7K	EQUIPMENT-ANTENNA, CABLE AND GROUNDPLATE
G80	AXLE POSITRACTION-LIMITED SLIP
GAN	PRIMARY COLOR-EXTERIOR, SWITCHBLADE SILVER MET (G) 636R
GAZ	PRIMARY COLOR-EXTERIOR, SUMMIT WHITE (G) 8624
GBA	PRIMARY COLOR-EXTERIOR, BLACK (G) 8555
GT4	AXLE REAR-3.73 RATIO
GT5	AXLE REAR-4.10 RATIO
GU6	AXLE REAR-3.42 RATIO
IVR	VEHICLE-VRIDE
J23	ENGINEERING YEAR-2023
JFF	GVW RATING-10,100 LBS
JH6	BRAKE-HYD POWER, 4 WHL DISC.
JH9	BRAKE-HYD POWER, 4 WHL DISC, 14, 200 LBS
JL4	CONTROL,-ACTIVE BRAKE

RPO	Description
K05	HEATER ENG-BLOCK
K34	CRUISE CONTROL-AUTOMATIC, ELECTRONIC
K50	FUEL-FITTING, LINE TAKE-OFF
K68	GENERATOR-105 AMP
KC4	COOLING SYSTEM-ENG OIL
KD1	COOLING SYSTEM-TRANS, OIL
KG4	GENERATOR-150 AMP
KI4	RECEPTACLE I/P-ELECTRICAL, 110 VOLT
KUP	THROTTLE CONTROL-ELECTRONIC
KW5	GENERATOR-220 AMP
KYK	GOVERNOR-VEHICLE TOP SPEED LIMIT - 100 KPH
L8T	ENGINE-GAS, 8 CYL, 6.6L, SIDI, VVT, CAST IRON
LV1	ENGINE-GAS, 6 CYL, 4.3L, GEN 5, SIDI, V6, VVT, OHV, ALUM
M5U	TRANSMISSION-AUTO 8 SPD, 8L90
MTF	PROVISIONS-FIRE EXTINGUISHER MOUNTING
MYD	TRANSMISSION-AUTO 6 SPD, HMD, 6L90
N33	STEERING COLUMN-TILT TYPE
NAV	PLANT CODE-NAVISTAR, SPRINGFIELD, OH, USA
NCF	LOCK-CHILD SECURITY FEATURE - NONE
NE1	CERTIFICATION-EMISSION, GEOGRAPHICALLY RESTRICTED REGISTRATION
NE7	FUEL TANK-216L, 57 GAL
NE8	EVAPORATIVE SYSTEM-LEVEL 3 EMISSIONS
NHT	PERFORMANCE PACKAGE-ENHANCED TOWING
NP5	STEERING WHEEL-LEATHER WRAPPED
NPL	PLATE-NAME - NONE
NTB	EMISSION SYSTEM-FEDERAL, TIER 3
NU9	EMISSION SYSTEM-CALIFORNIA, ULEV200
NUM	EMISSION SYSTEM-CALIFORNIA, LEV3 MDV 10-14K GVW
P03	COVER, WHEEL-VAR 3
PNC	PANEL-TRIM, FRT DOORS & SI RR DOOR(S) & RR DOORS
PPC	PANEL-TRIM, RR DOORS
PSR	RESERVOIR-POWER STEERING FLUID, WITH LEVEL SIGHT (SEO)
Q8C	CAP-VALVE, TIRE, AIR-THRU (SEO)
QB5	WHEEL-16 X 6.5, J, STEEL
QT4	WHEEL-16 X 6.5, STEEL H.D.
R04	WHEEL CONFIGURATION-RR, SINGLE
R05	WHEEL CONFIGURATION-RR, DUAL

RPO	Description
R25	APPEARANCE PACKAGE-EXTERIOR, CHROME GRILLE & PAINTED BUMPER
R26	APPEARANCE PACKAGE-EXTERIOR, CHROME GRILLE & FRONT BUMPER
RDI	ACCESSORY-KEYLESS ENTRY
RGI	ROUTING GROMMET-UPFITTER, FRONT OF DASH (SEO)
RVG	ACCESSORY-ADAPTER - TRAILER HARNESS
RYT	ACCESSORY-FIRST AID KIT
RYY	ACCESSORY-FLOOR MATS - MOLDED VINYL
RZW	ACCESSORY-HARNESS - TRAILER HITCH
S08	ACCESSORY-HIGHWAY SAFETY KIT
S52	ACCESSORY-MOLDED HOOD PROTECTOR - SMOKED
S6N	ACCESSORY-RECEIVER COVER - TRAILER HITCH
SDD	ACCESSORY-TRAILER HITCH - FIXED
SDI	ACCESSORY-TRIANGLE - REFLECTIVE
SDS	ACCESSORY-WEATHER DEFLECTORS - SIDE WINDOW - SMOKED
SFE	ACCESSORY-WHEEL LOCKS
SFV	ACCESSORY-WIRELESS NETWORK INTERFACE MODULE
T74	CONTROL, HEADLAMPS-AUTOMATIC, DELAY
TGA	LANGUAGE CONTROL-ENGLISH, FRENCH, SPANISH
TGG	LANGUAGE CONTROL-ENGLISH, ARABIC, FRENCH
TP3	BATTERY-770 CCA & 770 CCA (DUAL)770 CCA & 770 CCA (DUAL)
TR9	LAMP GROUP-
U05	HORN-DUAL
U0F	RADIO-AM/FM STEREO, CAF, RSA, MUSIC NAVIGATOR, GRAPHICS
U0H	RADIO-AM/FM STEREO, USB, GMNA
U19	SPEEDOMETER-INST, KILO & MILES, KILO ODOMETER
U2J	DIGITAL AUDIO SYSTEM-S-BAND - NONE
U2K	DIGITAL AUDIO SYSTEM-S-BAND
U73	ANTENNA-FIXED, RADIO
U80	DISPLAY-COMPASS
UA1	BATTERY-HIGH CAPACITY, WET
UA7	THEFT DETERENT SYS-EXPORT SPECIFIC, VAR #02
UC2	SPEEDOMETER-INST, KILO & MILES, KILO ODOMETER, POSITIVE BIAS
UD4	ALARM-VEHICLE SPEED, 120 K/H (DON'T USE AFTER 2010 ON NEW MAJORS - USE CTY COD &/OR VCS FAM COD INSTEAD)
UD7	PARK ASSIST-REAR

RPO	Description
UE0	COMMUNICATION SYSTEM-VEHICLE - NONE
UE1	COMMUNICATION SYSTEM-VEHICLE, ONSTAR
UEU	SENSOR INDICATOR-FORWARD COLLISION ALERT
UF3	SWITCH-HIGH IDLE
UFA	DISPLAY-OUTSIDE TEMPERATURE
UFL	LANE ACTIVE SAFETY-DEPARTURE WARNING
UFT	SIDE ACTIVE SAFETY-OBSTACLE DETECTION
UJ1	INDICATOR-SYSTEM, BRAKE WARNING
UJM	TIRE PRESS INDICATOR-MANUAL LEARN
UL2	FREQUENCIES-EUROPEAN
UL8	FREQUENCIES-SAUDI ARABIAN
UPF	WIRELESS INTERFACE-SHORT RANGE, VOICE REC
USR	RECEPTACLE-USB
UTJ	THEFT DETERENT-ELECTRICAL, UNAUTHORIZED ENTRY
UTN	PROVISIONS-UPFITTER CONTROL AND MONITORING
UVC	VISION-REAR VIEW, MONO, ANALOG
UY7	WIRING HARNESS-TRUCK TRAILER, HD
V10	PROVISION OPTIONS-COLD WEATHER
V22	GRILLE-RADIATOR, CHROME
V37	BUMPER-FRT & RR, CHROME
V46	BUMPER FRT-CHROME
V4D	CALIBRATION-SEPARATED STOP/TURN SIGNAL CIRCUITS
V78	VEHICLE STATEMENT-VEHICLE LABEL CONTENT - NO CERT STATEMENT (ENGLISH TEXT)
V87	VEHICLE STATEMENT-VEHICLE LABEL CONTENT - GULF STATES ORGANIZATION
V8C	VEHICLE STATEMENT-VEHICLE LABEL CONTENT - NO CERT STATEMENT (SPANISH TEXT)
V8D	VEHICLE STATEMENT-VEHICLE LABEL CONTENT - U.S. FMVSS
V8E	VEHICLE STATEMENT-VEHICLE LABEL CONTENT - CANADA CMVSS
V8I	VEHICLE STATEMENT-VEHICLE LABEL CONTENT - ISRAEL FMVSS
VBX	LANGUAGE LABEL-ARABIC
VC5	LABEL-SHIPPING, EXCEPT US, US POSSESSIONS, OR JAPAN
VG8	VEHICLE-LABEL, NOTICE TO BUYER
VH6	BUMPER FRT-BLACK
VJG	BUMPER RR-BLACK
VK3	LICENSE PLATE FRONT-FRT MOUNTING PKG

1-14 General Information

RPO	Description
VK5	SEAT-TEMPORARY, FOR SHIPPING
VLU	ACCESSORY-SECURITY SCREEN PACKAGE - REAR WINDOW W/O POP - OUT
VP6	NOISE CONTROL-
VPH	VEHICLE PREPARATION-OVERSEAS DELIVERY
VQK	ACCESSORY-SPLASH GUARDS - CUSTOM MOLDED
VR4	TRAILER HITCH-WEIGHT DISTRIBUTING PLATFORM
VR6	HOOK-TIE-DN SHPG
VT7	OWNERS MANUAL-ENGLISH LANGUAGE
VV4	COMMUNICATION EQUIP-MOBILE INTERNET CONNECTIVITY
VXT	VEHICLE TYPE-INCOMPLETE
VXW	ACCESSORY-ASSIST STEPS - MOLDED
W1Y	CONTROL-STEERING WHEEL, RADIO, REDUNDANT CONTROLS
WEN	PLANT CODE-WENTZVILLE, MO, USA
WMX	VIN MODEL YEAR-2023
X88	MARKET BRAND-CHEVROLET
XHF	TIRE FRONT-LT225/75R16 E 115/112 S BL ALS
XL7	FREQUENCIES RATING-315 MHZ, LONG DISTANCE
XL8	FREQUENCIES RATING-433 MHZ
XLP	TIRE FRONT-LT245/75R16 E 120/116 S BW ALS
Y3H	SALES PACKAGE-HANDICAPPED, MOBILITY, PARATRANSIT
YA2	DOOR SIDE-REAR, SLIDING DOOR, MANUAL
YB9	PAINT PROCESS-INTERIOR - NONE
YC6	PACKAGE, CONVENIENCE-DECOR LEVEL #6
YF1	SALES PACKAGE-CUTAWAY UPFITTER
YF2	SALES PACKAGE-AMBULANCE UPFITTER
YF5	CERTIFICATION-EMISSION, CALIFORNIA
YHF	TIRE REAR-LT225/75R16 E 115/112 S BL ALS
YK6	IDENTIFICATION-(SEO)
YLP	TIRE REAR-LT245/75R16 E 120/116 S BW ALS
YM8	IDENTIFICATION-LIMITED PERSONALIZATION OPTION (LPO)
Z49	COUNTRY-CANADA
Z82	TRAILER PROVISIONS-SPECIAL EQUIPMENT, H.D.
Z88	MARKET BRAND-GMC
ZHF	TIRE SPARE-LT225/75R16 E 115/112 S BL ALS

	I
RPO	Description
ZLP	TIRE SPARE-LT245/75R16 E 120/116 S BW ALS
ZP0	SEATING ARRANGEMENT-TEMPORARY DRIVER
ZP3	SEATING ARRANGEMENT-15 PASS
ZP6	SEATING ARRANGEMENT-5 PASS CARGO
ZQ2	SALES PACKAGE-DRIVER CONVENIENCE
ZQ3	SALES PACKAGE-DRIVER CONVENIENCE II
ZR7	APPEARANCE PACKAGE-GRILLE & BUMPER CHROME
ZW1	WINDOW PKG-RH SIDE RR DRS (SEO)
ZW2	WINDOW PKG-RR DRS
ZW3	WINDOW PKG-RR DRS, SIDE RR DR
ZW4	WINDOW PKG-RH SIDE, RR DRS
ZW6	WINDOW PKG-COMPLETE BODY
ZW9	BODY EQUIPMENT-BASE BODY OR CHASSIS
ZX1	SEATING ARRANGEMENT-DRIVER ONLY, HIGH BACK
ZX2	SEATING ARRANGEMENT-DRIVER & PASS, HIGH BACK
ZX5	SEATING ARRANGEMENT-12 PASS
ZX9	TIRE SPARE-W/WHEEL - NONE

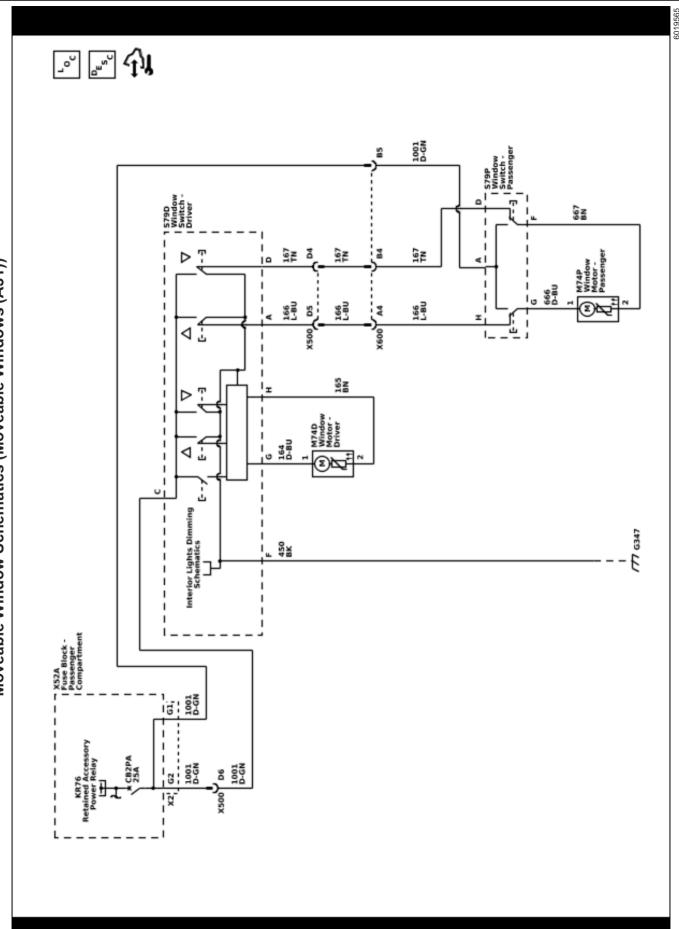
Section 2

Body Systems

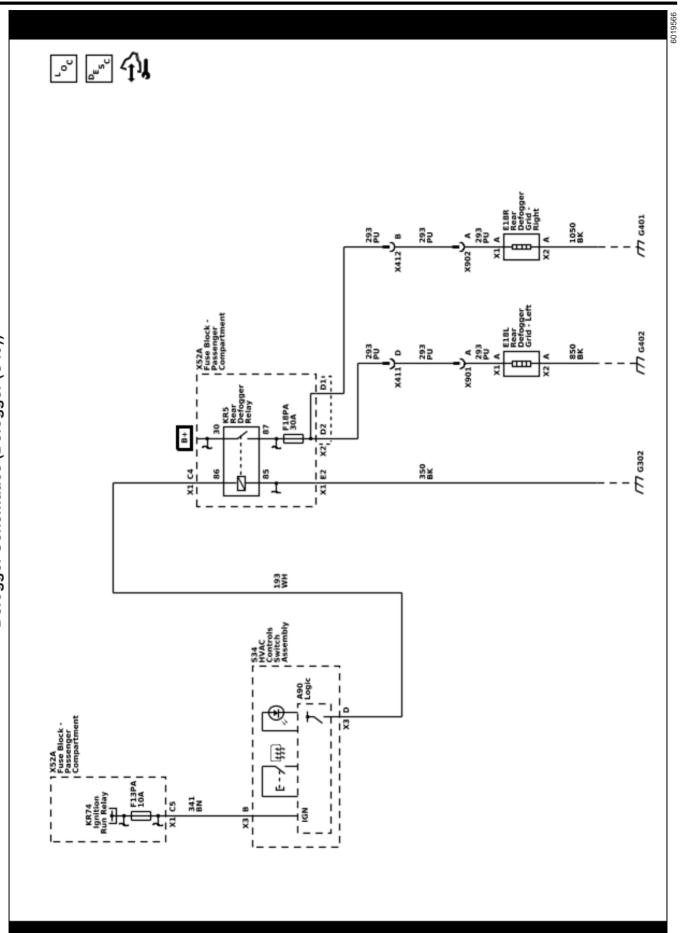
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Fixed and Moveable Windows Schematic and Routing Diagrams







Description and Operation Full-Cut Method Description

Important:

- If corrosion of the pinch-weld flange is present, or if sheet metal repairs or replacements are required, refinish the pinch-weld flange in order to present a clean, primer-only surface.
- If paint repairs are required, mask the flange bonding area, prior to applying the color coat, in order to provide a clean, primer-only surface.
- Appropriate materials for these primer applications are typically 2 component catalyzed products. Use materials such as BASF DE15[®], DuPont 2610[®], Sherwin-Williams PSE 4600 and NP70[®] and Martin-Semour 5120 ,5130[®], PPG DP90LF SPIES/HECKER 3688/8590 3688/5150 4070/5090 STANDOX 11158/13320 14653/14980 products are approved for this application. Follow the manufacturer's directions for the mix, the application, and the drying times.
- After repairing the opening as indicated, use adhesive systems which meet GM Specification GM 3651G.

Use only the full cut method, also known in the field as full strip method, when installing windows.

This method includes the following:

- The replacement of a majority of the adhesive bead. Remove all but approximately 2 mm (3/ 64 in) of the existing bead of adhesive from the pinch-weld flange.
- Apply pinch-weld primer to any exposed painted areas on the pinch-weld flange.

No mounds or loose pieces of adhesive should remain on the pinch-weld flange. Do not remove all traces of adhesive.

Power Windows Description and Operation

Power Window System Components

The power window system consists of the following components:

- LF power window master switch
- RF power window switch
- Reversible power window motors in each of the doors (circuit breaker protected)
- PWR WNDW 25A circuit breaker

Power Window System Controls

The power window system will operate anytime the ignition switch is in the ACCY or ON position or when RAP is activated.

The LF power window master switch can control the up and down functions of both the windows in the vehicle. The passenger door power window switch can only control the up and down functions of the passenger window.

Power Window Motor Operation

A permanent magnet motor operates each of the power side windows. Each motor raises or lowers the glass when the motor receives voltage. The direction the motor turns depends on the polarity of the supply voltage. The power window switches control the polarity of the supply voltage. A built-in circuit breaker protects each motor. The circuit breaker opens when the switch is depressed for a extended period of time under the following conditions:

- · The window has an obstruction.
- The window is fully open or fully closed.

The circuit breaker will reset automatically as the circuit breaker cools.

Power Window Operation

The normally closed contacts of the switch are connected to ground and the center pole is connected to the accessory voltage circuit. By placing the left power window switch in the down position, voltage is applied to the power window motor left front down circuit and to the power window motor. The other side of the power window motor is connected to ground through the normally closed contacts of the left power window switch through the power window motor left front up circuit and drives the window down.

By placing the power window switch in the up position the polarity of the motor is reversed and the motor drives the window up.

Rear Window Defogger Description and Operation

Rear Window Defogger System Components

The rear window defogger system consists of the following components:

- HVAC control assembly
- Rear window defogger relay
- Rear window defogger grid

Rear Window Defogger Operation

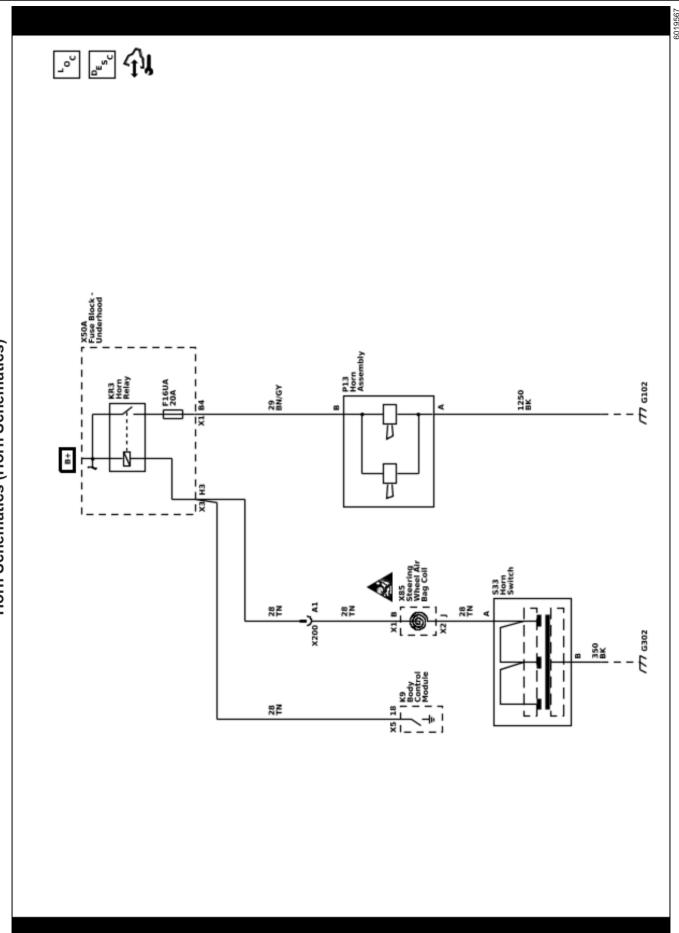
When you turn the ignition to the ON position, battery positive voltage is supplied through the HTD MIR DEFOG fuse to the rear window defogger relay switched input. Ground is for the rear window defogger relay coil is provided by G302. Battery positive voltage and ignition voltage is supplied to the HVAC control assembly for rear window defogger operation. When the rear window defogger switch is depressed, the HVAC control assembly energizes the rear window defogger relay by supplying battery positive voltage to the rear window defogger relay coil. This allows battery positive voltage from the relay switched input through the switch contacts and out the relay switched output to the rear window defogger grids. The HVAC control assembly also illuminates the rear window defogger indicator upon this request. Ground for the left rear window defogger grid is provided by G401. Ground for the right rear window defogger grid is provided by G402.

When you turn ON the ignition and press the rear window defogger switch for the first time, the defogger cycle lasts 10 minutes. Further operation results in 5 minute defogger cycles. The defogger cycle resets to 10 minutes when you cycle the ignition to the OFF position and then back to the ON position.

Horns and Pedestrian Alerts

Schematic and Routing Diagrams





Description and Operation Horns System Description and Operation

System Description

The horn system consists of the following components:

- The HORN fuse
- The Horn relay
- · The Horn Contact
- The Horn Assembly
- Body Control Module (BCM)

System Operation

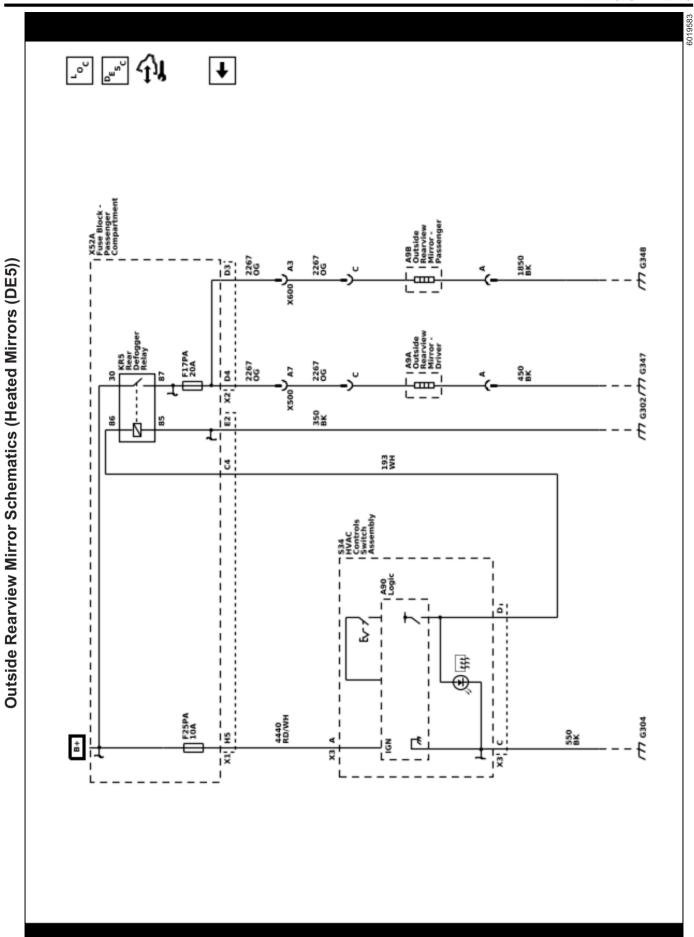
- The vehicle horns are activated whenever the horn switch is depressed.
- The BCM commands the horns ON under any of the following conditions:
 - When the panic button is depressed on the remote control door lock transmitter. For further information refer to <u>Keyless Entry System</u> <u>Description and Operation on page 7-13</u>.
 - 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 <u>Keyless Entry System Description and</u> Operation on page 7-13.

Circuit Operation

Battery positive voltage is applied at all times to the horn relay coil and the horn relay switch. Pressing the horn switch applies ground to the horn relay control circuit. 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.

Mirrors

Schematic and Routing Diagrams



Description and Operation Outside Mirror Description and Operation

Outside Mirror System Components

The power mirror system consists of the following components:

- · Power mirror switch
- · Selector switch
- Left outside power mirror
- · Right outside power mirror
- OSRVM 10A fuse
- HVAC control module
- Left outside power mirror
- · Right outside power mirror

Each of the outside power mirrors contains two reversible motors. The vertical motor operates the up and down directions and the horizontal motor operates the left and right directions. Each of the power mirror motors are circuit breaker protected.

Power Mirror System Controls

The power mirror switch incorporates a mirror select switch and a four position mirror direction switch.

The mirror select switch allows the operator to select the mirror to be moved by rotating counterclockwise to the L position, left outside power mirror, or rotating clockwise to the R position, right outside power mirror.

The mirror direction switch is a 4 position switch that allows the operator to move the selected mirror up, down, left or right.

Power Mirror System Operation

The power mirror switch receives power through the battery supply voltage circuit and the OSRVM fuse. The power mirror switch also receives a constant ground.

The four positions of the direction switch have dual switch contacts. Each of the contacts are connected to opposing sides of the appropriate power mirror motors through the selector switch. The selector switch interrupts or completes these circuits depending on the position of the selector switch (L or R).

If the selector switch is placed in the L position and the up switch is depressed, battery voltage will be supplied to the left outside power mirror vertical motor through the left mirror motor up direction circuit and return to the power mirror switch through the mirror motor common circuit then to ground and the mirror will move up. If the down switch is depressed, the common circuit supplies battery voltage and the left mirror motor up direction circuit completes the path to the power mirror switch then to ground and the mirror will move down.

The remainder of the mirror functions operate in the same manner as described above. The thing to remember is, that by placing the power mirror switch in opposing positions (left/right or up/down) will reverse the polarity of the mirror motor, utilizing the same circuits and the power mirror will move accordingly.

Heated Mirror System Controls

The heated mirror system is activated by depressing the rear window defogger switch, which is part of the HVAC control module. For further information on the rear window defogger operation, refer to <u>Rear Window Defogger Description and Operation on page 2-6.</u>

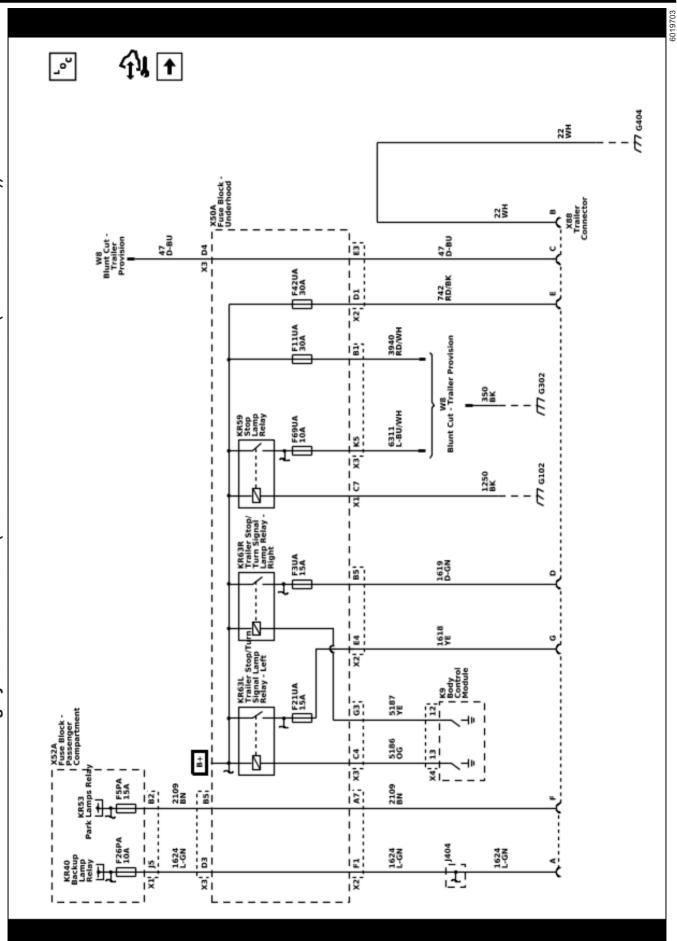
Heated Mirror System Operation

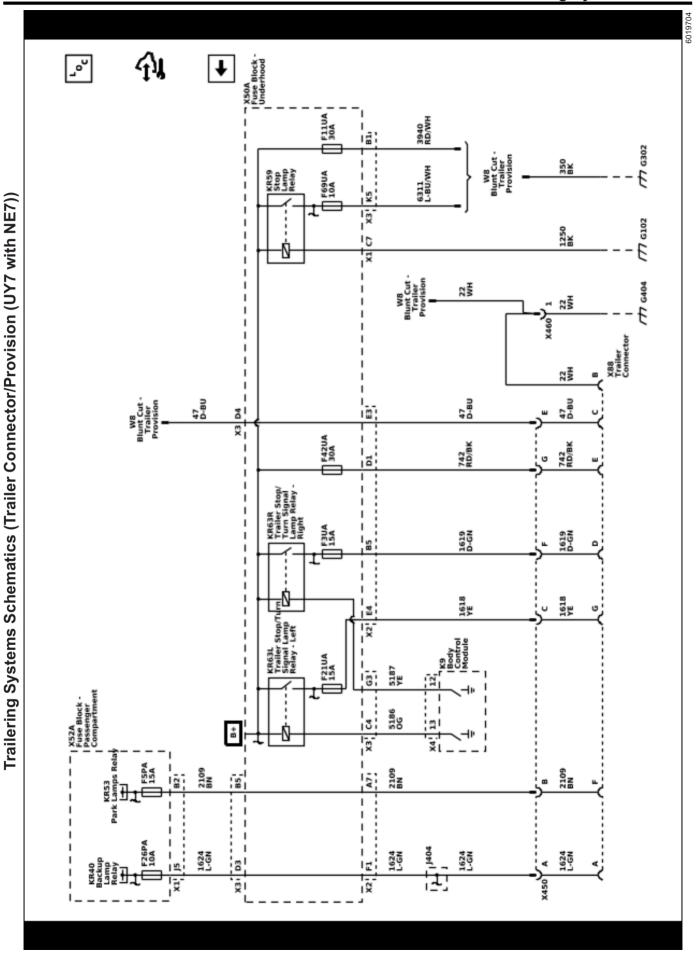
The heated mirror system operates in parallel to the rear window defogger. Each outside rearview mirror contains a heating element that is connected to a constant ground source. When the rear window defogger system is active, battery voltage is available to the outside rearview mirrors through the heated mirror supply voltage circuit. The mirrors will heat up to remove ice, snow or frost and will automatically deactivate when the rear defogger system has timed out, approximately 10 minutes.

Trailering Systems

Schematic and Routing Diagrams

2-16





Description and Operation Trailering Description and Operation

Trailer Lamps

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 K9 Body Control Module (BCM). The message indicates that the gear selector is in the reverse position. The BCM responds by applying voltage to the KR40 Backup Lamp Relay control circuit. With the backup lamp relay energized, the relay switch contacts close and battery voltage is applied through the backup lamp fuse to the trailer backup lamp control circuit which illuminates the trailer backup lamp(s). Once the driver moves the gear selector out of the reverse position, a message is sent by the TCM via serial data requesting the BCM to remove battery voltage from the backup lamp relay control circuit. The engine must be running for the backup lamps to operate.

Park Lamps

When the 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 by applying ground to the KR53 Park Lamps Relay control circuit. With the park lamp relay energized, the relay switch contacts close and battery voltage is applied through the park lamp fuse to the trailer park lamp control circuit which illuminates the trailer park lamps.

Stop Lamps

For stop lamp operation, the left and right trailer stop/ turn signal lamp relay's are supplied with battery voltage at all times. The brake pedal position sensor is used to sense the action of the driver application of the brake pedal. The brake pedal position sensor provides an analog voltage signal that will increase as the brake pedal is applied. The K9 Body Control Module (BCM) provides a low reference signal and a 5 V reference voltage to the brake pedal position sensor. When the variable signal reaches a voltage threshold indicating the brakes have been applied, the BCM responds by applying ground to the left and right stop lamp relay control circuits. With the left and right trailer stop/turn signal lamp relay's energized, the relay switch contacts close and battery voltage is applied through the left and right trailer stop/turn signal fuse's to the trailer stop lamp control circuits which illuminates the trailer stop lamps.

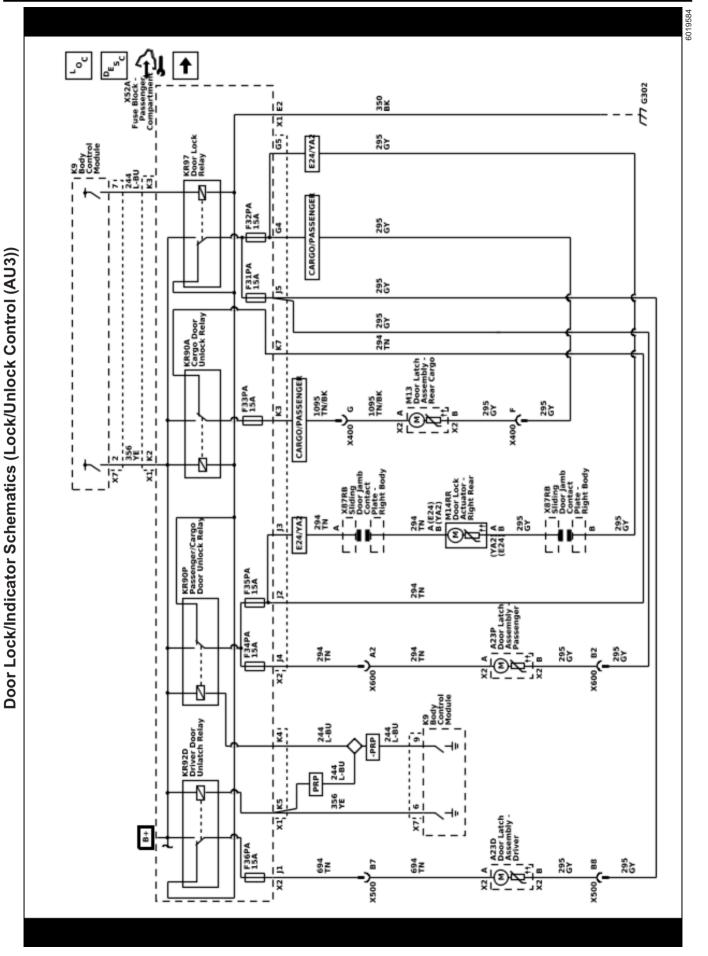
Turn Signal Lamps

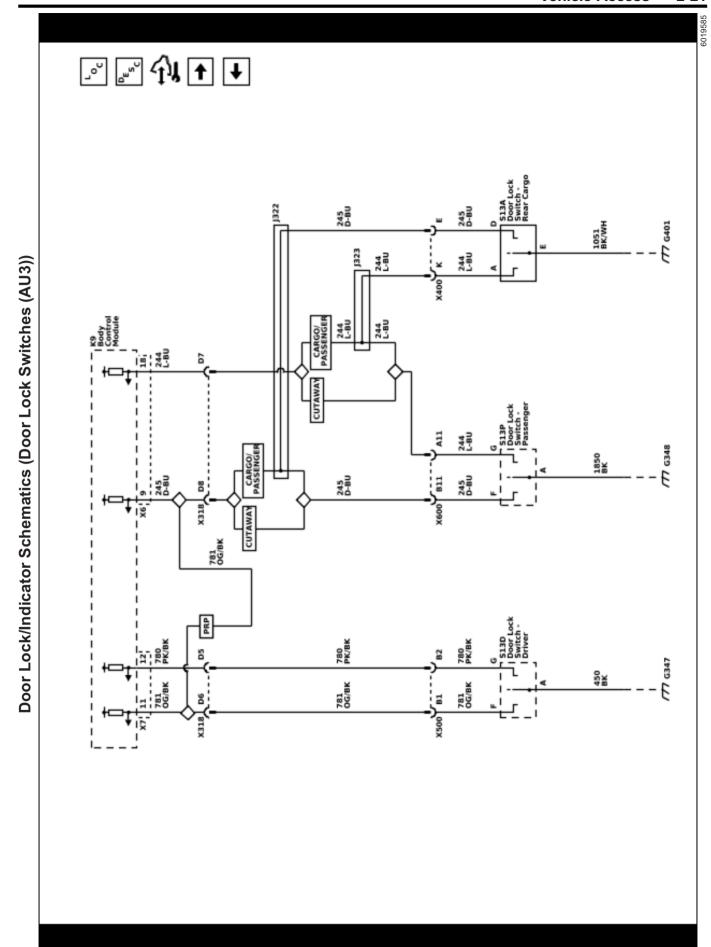
For turn signal lamp operation, the left and right trailer stop/turn signal lamp relay's are supplied with battery voltage at all times. Ground is applied at all times to the turn signal/multifunction switch. The turn signal lamps may only be activated with the ignition switch in the ON or START positions. When the turn signal/multifunction switch is placed in either the TURN RIGHT or TURN LEFT position, ground is applied to the K9 Body Control Module (BCM) through either the right turn or left turn signal switch signal circuit. The BCM responds to the turn signal switch input by applying a pulsating ground

to the appropriate left or right trailer stop/turn signal lamp relay control circuits energizing the relay's in an ON and OFF cycle. With the left or right trailer stop/turn signal lamp relay's energized, the relay switch contacts cycle ON and OFF applying battery voltage through the left or right trailer stop/turn signal fuse to the trailer turn signal lamp control circuits which illuminates the trailer turn signal lamps in an ON and OFF cycle.

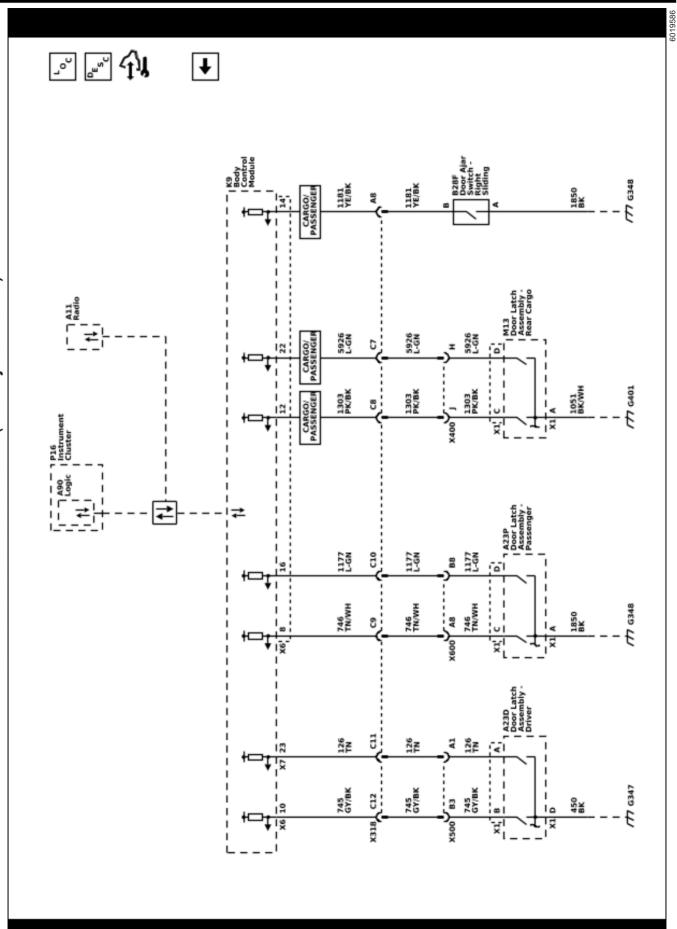
Vehicle Access

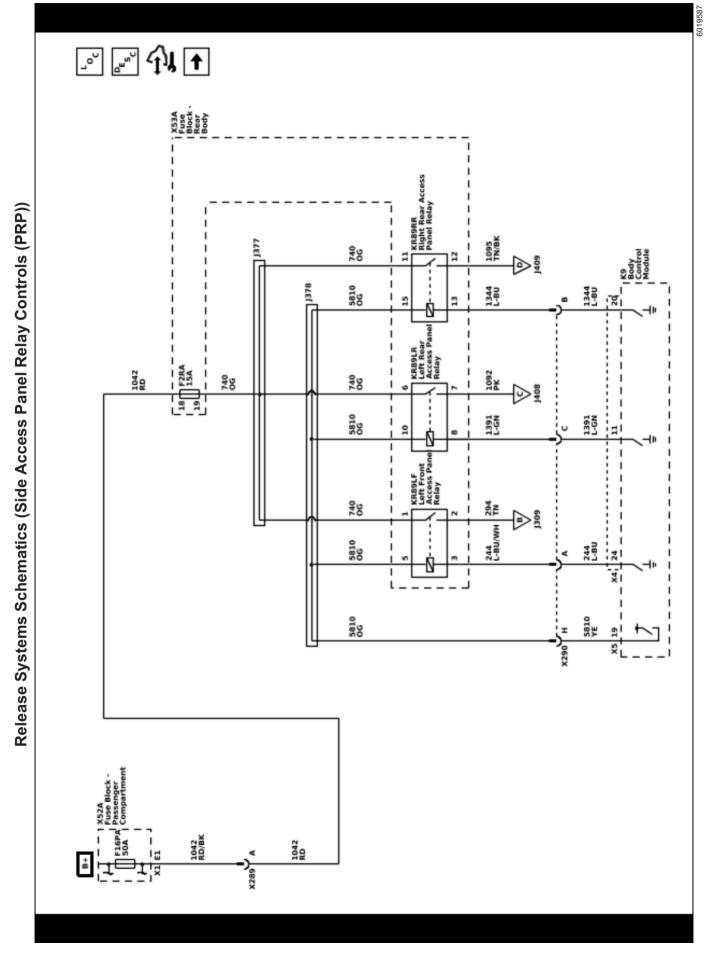
Schematic and Routing Diagrams

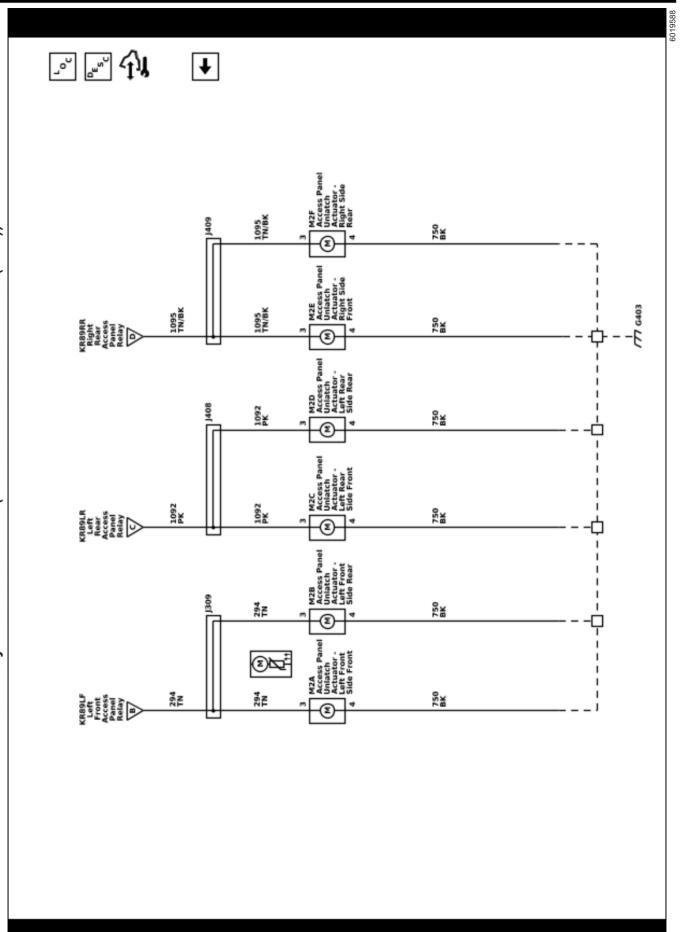




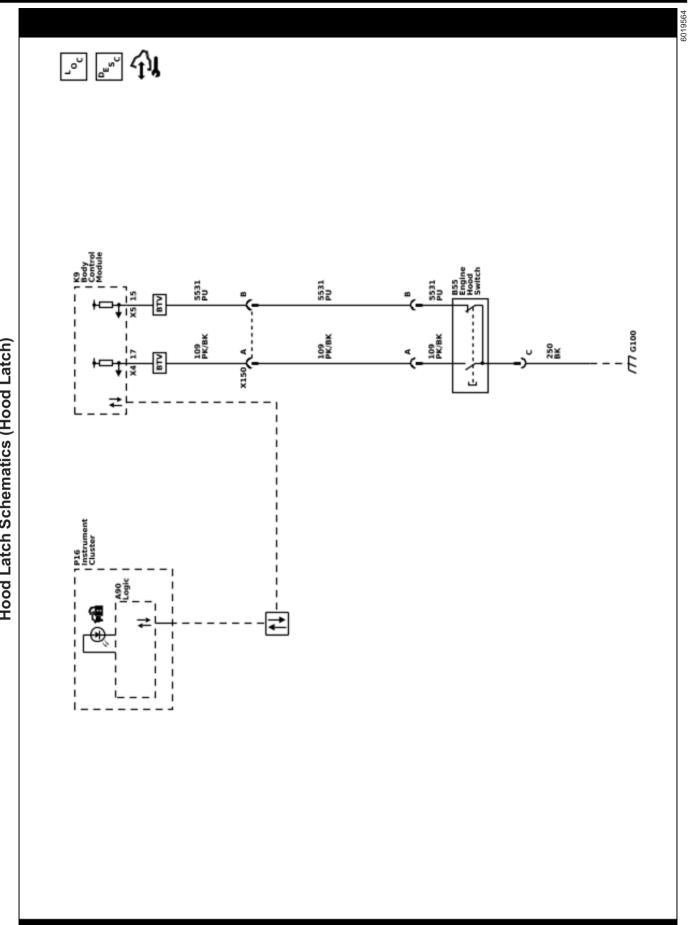
2-22











Description and Operation Access Panel Description and Operation

The access panel entry system is a supplementary vehicle entry device. Radio frequencies or discharged batteries may disable the system.

The access panel entry system allows you to operate the following components:

- The Left Front Access Panel if equipped
- The Left Rear Access Panel
- The Right Rear Access Panel

Pro/Access models use the key fob to activate up to 3 access panels depending on the cargo door option:

- One access panel on the right side of the vehicle.
- One access panel on the left side of vehicles equipped with left side cargo doors.
- Two access panels on the left side of vehicles not equipped with left side cargo doors.

The access panel entry system has the following main components:

- · The transmitters
- The remote control door lock receiver (RCDLR).
- · The body control module (BCM).

This vehicle is not equipped with remote keyless entry system (RKE). The transmitter is used exclusively to operate the access panels. When you press any button on a programmed k transmitter, the transmitter sends a signal to the RCDLR. The RCDLR sends a class 2 message to the body control module (BCM) which activates the appropriate access panel relay, releasing the panel.

Rolling Code

The access panel entry system uses rolling code technology. Rolling code technology prevents anyone from recording the message sent from the transmitter and using the message in order to gain entry to the vehicle. The term, rolling code, refers to the way that the keyless entry system sends and receives the signals. The transmitter sends the signal in a different order each time. The transmitter and the RCDLR are synchronized to the appropriate order. If a programmed transmitter sends a signal that is not in the order that the RCDLR expects, then the transmitter is out of synchronization. This occurs after 256 presses of any transmitter button when it is out of range of the vehicle.

Door Ajar Indicator Description and Operation

Door Ajar Indicator System Components

The door ajar indicator system consists of the following components:

- The body control module (BCM)
- · The instrument panel cluster (IPC)
- The driver information center (DIC)
- The door ajar switch

Door Ajar Operation

The body control module (BCM) receives a discrete input from the door ajar switch to indicate the status of the door. The BCM then communicates this status to the instrument panel cluster (IPC) via GMLAN serial data. The IPC, upon receipt of this message, will illuminate the door ajar message in the driver information center (DIC) and also send a GMLAN serial data message to the radio to activate the door ajar audible warning when the following conditions are met:

- The transmission is shifted out of PARK.
- The vehicle speed is greater than 8 km/h (5 mph).

Hood Ajar Indicator Description and Operation

Hood Ajar Switch

The hood ajar switch provides closure status of the hood to the body control module (BCM) and on vehicles equipped with any hybrid drivetrain or start stop technology a power train module. The switch is integrated into the hood latch assembly. The BCM, and other module if equipped, monitor the voltage on their circuit as it passes through the different positions of the hood switch.

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 driver information center (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
- · Front passenger door lock switch
- Rear cargo door lock switch
- Door lock relay
- · Passenger door unlock relay
- Driver door unlock relay
- Cargo door unlock relay
- Body Control Module (BCM)
- Reversible door lock actuators in each of the doors
- DRV LKS 10A fuse, driver door unlock relay supply voltage
- CARGO UNLK 10A fuse, cargo door unlock relay supply voltage
- DOOR LKS 20A fuse, door lock relay and passenger door unlock relay supply voltage

Door Lock System Controls

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

- A power door lock or unlock switch activation
- A keyless entry transmission
- · A lock out prevention function
- · A last door locking function

Driver, Passenger and Cargo Door Lock Operation

When any of the door lock switches are placed in the lock position, a ground signal is applied to the BCM through the door lock signal circuit. Upon receiveing this signal, the BCM grounds the control side of the door lock relay through the door lock relay control circuit. Since the other side of the door lock relay winding is connected to battery voltage, the relay is energized. This causes the contacts to close and complete the path from the DOOR LKS fuse through the battery voltage circuit. Voltage is then applied to the lock side of the door lock actuators through the door lock actuator lock circuits. Since the other side of the all the door lock actuators are connected to the normally closed contacts of their respective unlock relays to ground, the doors lock.

The lock function can also be accomplished by the BCM supplying ground to the door lock relay control circuit by either of the following:

- A keyless entry lock transmission
- · A last door lock function

Driver Door Unlock Operation

When any of the door lock switches are placed in the unlock position, a ground signal is applied to the BCM through the door unlock signal circuit. Upon receiveing this signal, the BCM grounds the control side of the driver door unlock relay through the driver door unlock relay control circuit. Since the other side of the driver door unlock relay winding is connected to battery voltage, the relay is energized. This causes the contacts to close and complete the path from the DRV LKS fuse through the battery voltage circuit. Voltage is then applied to the unlock side of the driver door lock actuator through the driver door lock actuator unlock control circuit. Since the other side of the the driver door lock actuator is connected to the normally closed contacts of the door lock relay to ground, the driver door unlocks.

The driver door unlock function can also be accomplished by the BCM supplying ground to the driver door unlock relay control circuit by either of the following:

- A keyless entry unlock transmission
- · A lock out prevention function

Passenger Door Unlock Operation

When any of the door lock switches are placed in the unlock position, a ground signal is applied to the BCM through the door unlock signal circuit. Upon receiveing this signal, the BCM grounds the control side of the passenger door unlock relay through the door unlock relay control circuit. Since the other side of the door unlock relay winding is connected to battery voltage,

the relay is energized. This causes the contacts to close and complete the path from the DOOR LKS fuse through the battery voltage circuit. Voltage is then applied to the unlock side of the passenger door lock actuators through the door lock actuator unlock control circuits. Since the other side of the the door lock actuators are connected to the normally closed contacts of the door lock relay to ground, the passenger doors unlock.

The door unlock function can also be accomplished by the BCM supplying ground to the passenger door unlock relay control circuit during a keyless entry unlock transmission.

Cargo Door Unlock Operation

When any of the door lock switches are placed in the unlock position, a ground signal is applied to the BCM through the door unlock signal circuit. Upon receiveing this signal, the BCM grounds the control side of the cargo door unlock relay through the cargo door unlock relay control circuit. Since the other side of the cargo door unlock relay winding is connected to battery voltage, the relay is energized. This causes the contacts to close and complete the path from the CARGO UNLK fuse through the battery voltage circuit. Voltage is then applied to the unlock side of the cargo door lock actuator through the door lock actuator unlock control circuit. Since the other side of the the cargo door lock actuator is connected to the normally closed contacts of the door lock relay to ground, the cargo door unlocks.

The cargo door unlock function can also be accomplished by the BCM supplying ground to the cargo door unlock relay control circuit during a keyless entry unlock transmission.

Delay Locking Operation

This feature allows the operator to lock all the doors from a door lock switch with the side doors(s) open. The side cargo doors have contact plates that complete the power door lock and unlock control circuits, among others, when the side cargo doors are closed, and interrupt these circuits when the doors are open. When a lock function occurs and the BCM senses an active state on any door ajar switch signal circuit the driver, front passenger and cargo doors will lock as described. The BCM continues to monitor door ajar switch signal circuits. When the BCM senses an inactive state, door closed, the BCM will cycle the door lock relay again after approximately 5 seconds to perform another lock function, thus locking the side cargo door(s).

Lockout Prevention

This feature prevents the locking of the driver door if the ignition key is left in the ignition lock cylinder. If a lock function occurs from any door lock switch and the BCM senses a door ajar and the key in ignition switch signal circuit is in the yes state, the BCM will cycle the door lock relay to lock the doors and then cycle the driver door unlock relay to unlock the driver door.

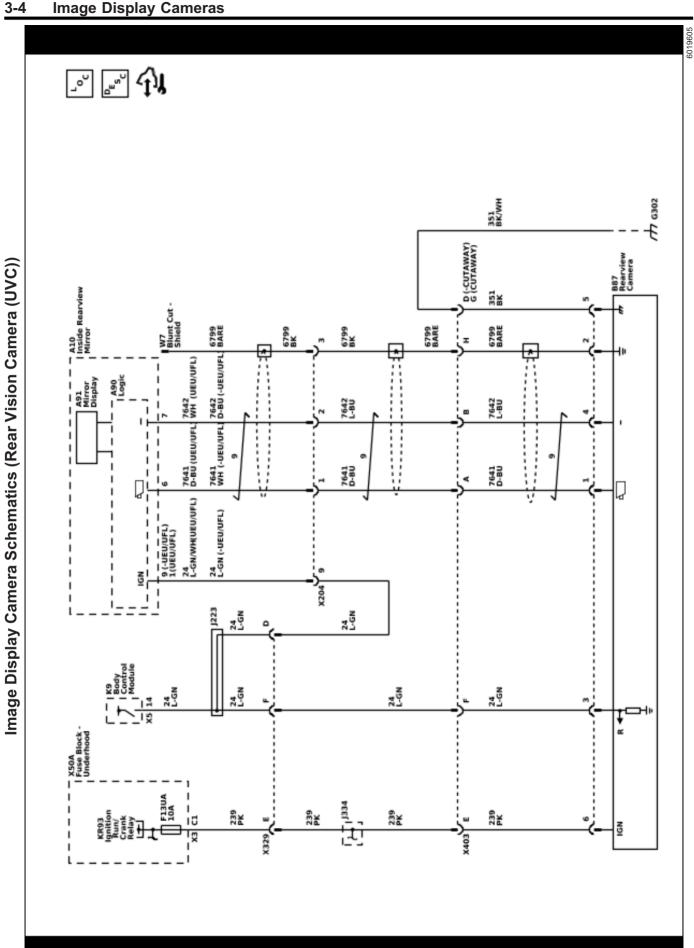
Section 3

Driver Information and Entertainment

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Image Display Cameras Schematic and Routing Diagrams



Description and Operation Rear Vision Camera Description and Operation

The rear vision camera system consists of the rearview camera and the infotainment system.

When the transmission is placed into R, 12 V is applied to the reverse lamp control circuit by the body control module (BCM). The rearview camera monitors this circuit and when 12 V is seen, indicating that the transmission is in R, the rearview camera will activate. The rearview camera receives ignition voltage and a constant ground to power the camera. Video signal + and video signal – circuits carry the video image from the rearview camera to the infotainment system. Additionally, the video signal circuits are shielded to prevent any interference which may lead to a loss of video signal resolution and cause a degraded video image. The shield is grounded by 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

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Section 4

Engine/Propulsion

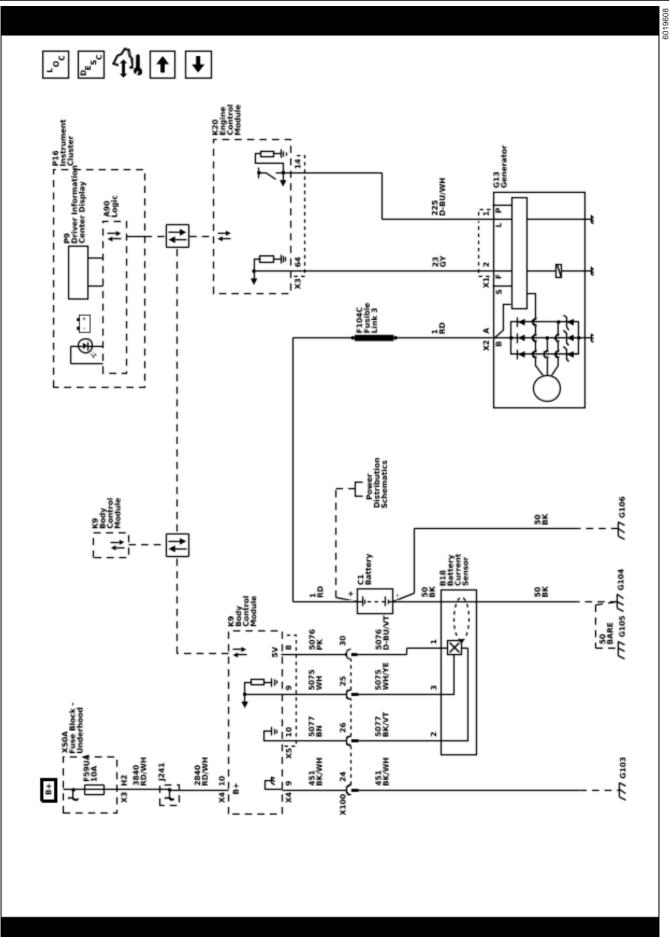
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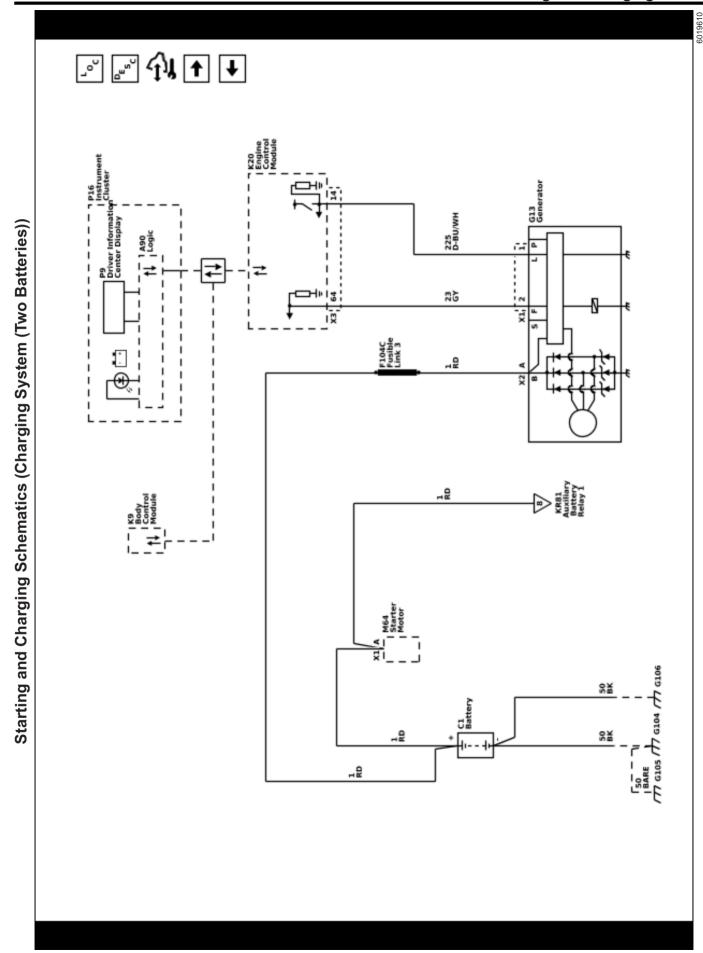
12 V Starting and Charging Schematic and Routing Diagrams

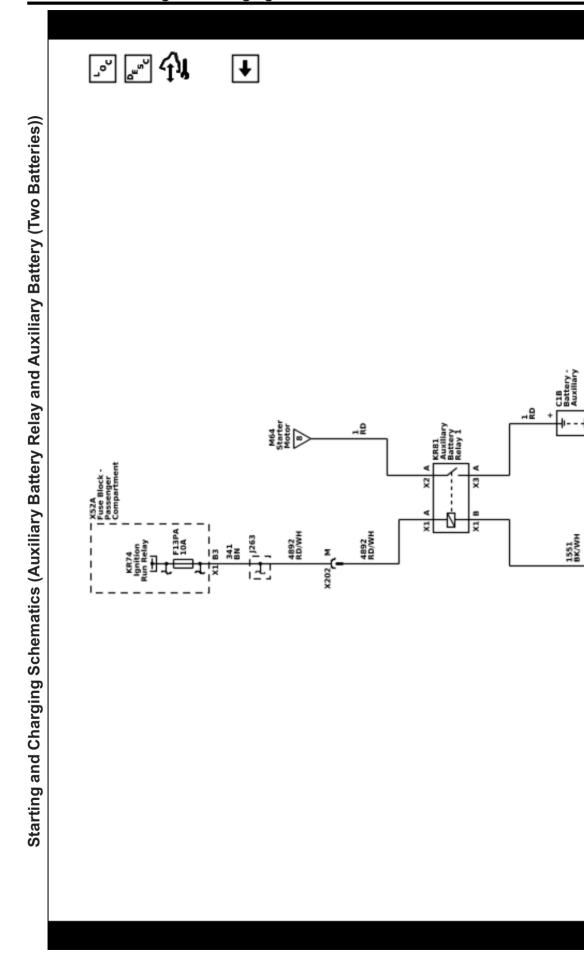
1551 BK/WH 77 6103 Starting and Charging Schematics (Starting System (One Battery)) 3337 L-GN/YE 3337 GN/YE x175 21 1020 PK 530 WH 530 WH 625 YE/BK 77 6102 1250 BK F44UA 40A F1048 Fusible Link 2 18 77 6106 18 BARE 1 BARE 잃뚪 SX





1551 BK/WH 77 6103 Starting and Charging Schematics (Starting System (Two Batteries)) 3337 L-GN/YE 3337 GN/YE 530 WH 530 WH 625 YE/BK 77 6102 1250 BK Z Z JJ 6106 45 BARE 1 BARE 않품 SX





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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 Current Sensor (if applicable)

The Battery Current Sensor is a serviceable component that is connected to the negative battery cable at the battery. The battery current sensor is a 3-wire hall effect current sensor. The battery current sensor monitors the battery current. It directly inputs to the BCM. It creates a 5 volt Pulse Width Modulation (PWM) signal of 128 Hz with a duty cycle of 0–100%. Normal duty cycle is between 5–95%. Between 0–5% and 95–100% are for diagnostic purposes.

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.

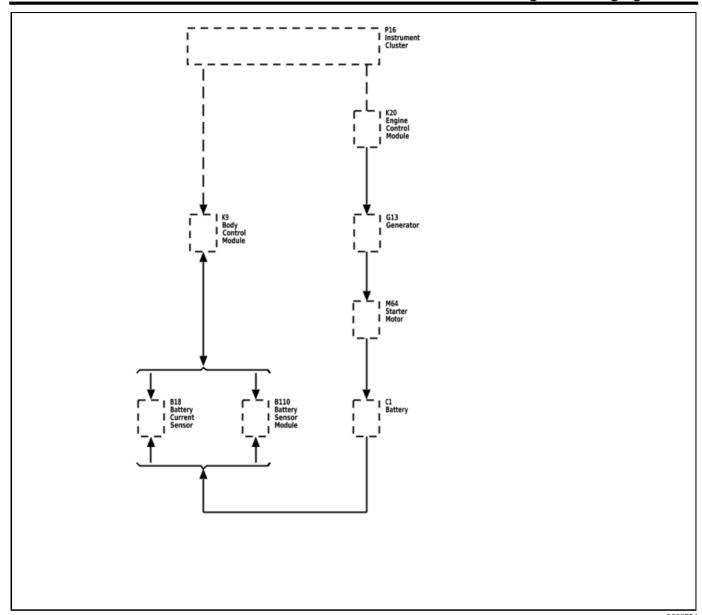
Engine Control Module (ECM)

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 (Gasoline)

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 discrete. No two functions are active at the same time. Idle boost is activated in incremental steps, 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:

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 10.9 V	_	First level Idle boost requested
Idle Boost 1 End	Greater Than −15°C (5°F)	Greater Than −12 V	Battery has a net loss less than 0.2 AH	First level Idle boost request cancelled
Load Shed 1 Start	_	Ι	Battery has a net loss of 4 AH	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 20% of their cycle
Load Shed 1 Start	_	Less Than 10.9 V	_	Rear Defrost, Heated Mirrors, Heated Seats 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 2 Start	_	-	Battery has a net loss greater than 1.6 AH	Second level Idle boost requested
Idle Boost 2 Start	_	Less Than 10.9 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
Idle Boost 3 Start	_		Battery has a net loss of 10.0 AH	Third level Idle boost requested
Idle Boost 3 Start	_	Less Than 10.9 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	_	Less Than 10.9 V	Battery has a net loss greater than 12 AH	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 2 Start		Less Than 10.9 V	_	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC

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Function	Battery Temperature Calculation	Battery Voltage Calculation	Amp-Hour Calculation	Action Taken
Load Shed 2 End	_	Greater Than 12.6 V	Battery has a net loss of less than 10.5 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 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 15 AH	Clear Load Shed 3

Electrical Power Management Description and Operation (Diesel)

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. Idle boost consists of three steps: idle boost 1, idle boost 2, and idle boost 3 (approximately 725, 850, and 850 rpm respectively). Idle boost is activated in incremental steps, idle boost 1 must be active before idle boost 2 can be active.

Each electrical power management function, either idle boost or load shed, is discrete. No two functions are active at the same time. The criteria used by the body control module (BCM) to regulate electrical power management are outlined below:

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 10.9 V	_	First level Idle boost requested
Idle Boost 1 End	Greater Than −15°C (5°F)	Greater Than −12 V	Battery has a net loss less than 0.2 AH	First level Idle boost request cancelled
Load Shed 1 Start	_	ı	Battery has a net loss of 4 AH	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 20% of their cycle
Load Shed 1 Start		Less Than 10.9 V	_	Rear Defrost, Heated Mirrors, Heated Seats 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 2 Start	_	ı	Battery has a net loss greater than 1.6 AH	Second level Idle boost requested
Idle Boost 2 Start	_	Less Than 10.9 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
Idle Boost 3 Start	_	_	Battery has a net loss of 10.0 AH	Third level Idle boost requested
Idle Boost 3 Start	_	Less Than 10.9 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

Function	Battery Temperature Calculation	Battery Voltage Calculation	Amp-Hour Calculation	Action Taken
Load Shed 2 Start	_	Less Than 10.9 V	Battery has a net loss greater than 12 AH	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 2 Start	_	Less Than 10.9 V	_	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 2 End	_	Greater Than 12.6 V	Battery has a net loss of less than 10.5 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 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 15 AH	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 guickly 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.

Circuit Description

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 Schematics	<u>5-4</u>
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5-2

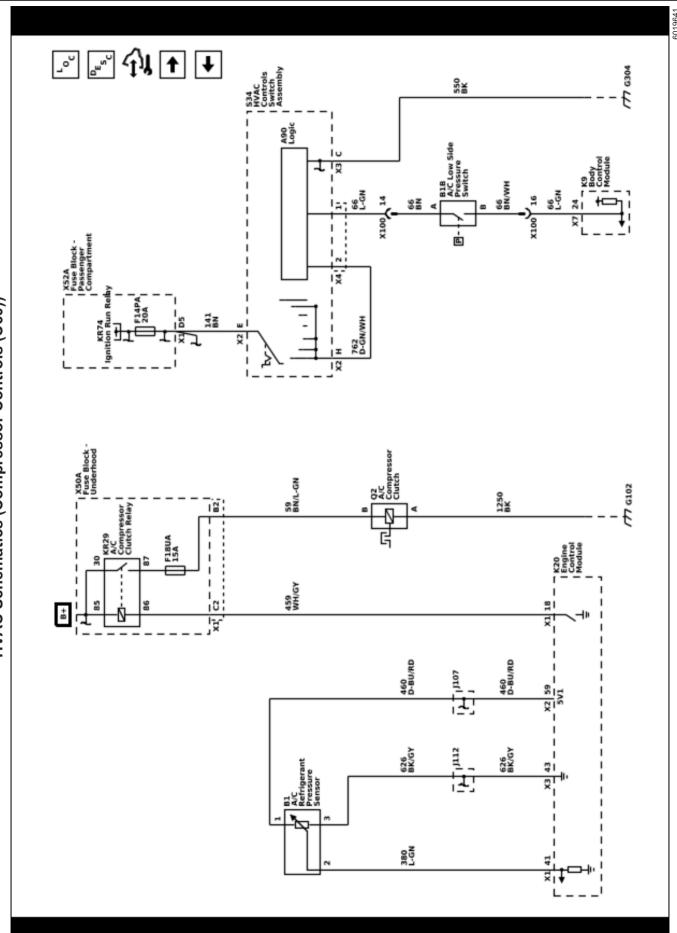
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HVAC - Manual

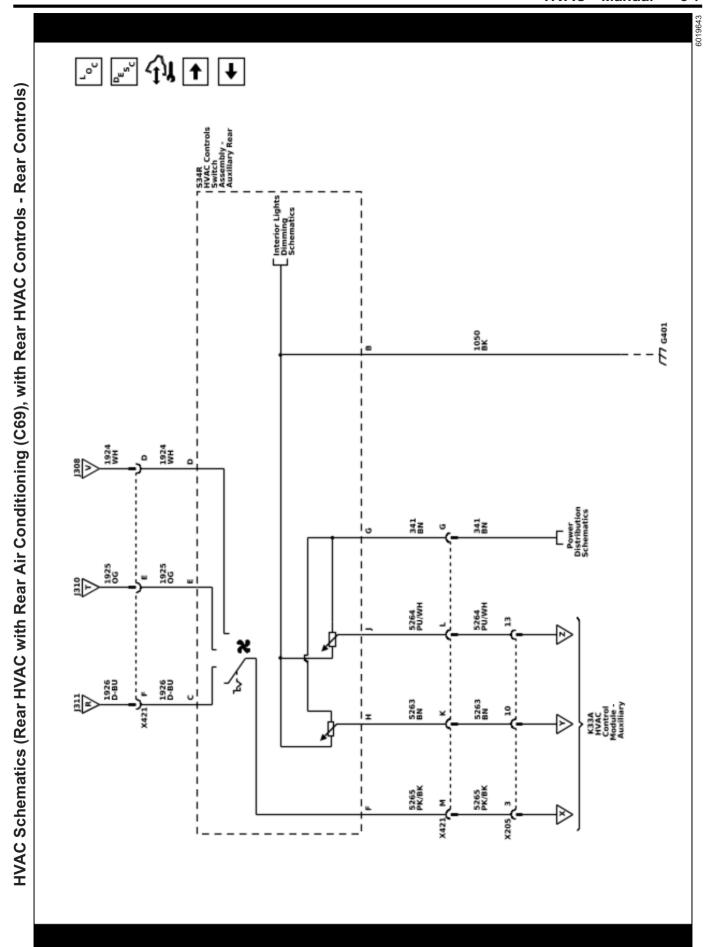
Schematic and Routing Diagrams

~ **~ 14 ↑** 542 RD/PU HVAC Schematics (Front Air Delivery Controls and Front Blower Motor) 52 WH/BK 1250 BK 72 D-BU/YE 0.195 63 YE/BN 0.72 ¥8 8 ¥8 82 18 TO 550 BX EFE BN A90 Logic 733 L-BU ➂ 77 6304 850 BK 341 BN 341 BN



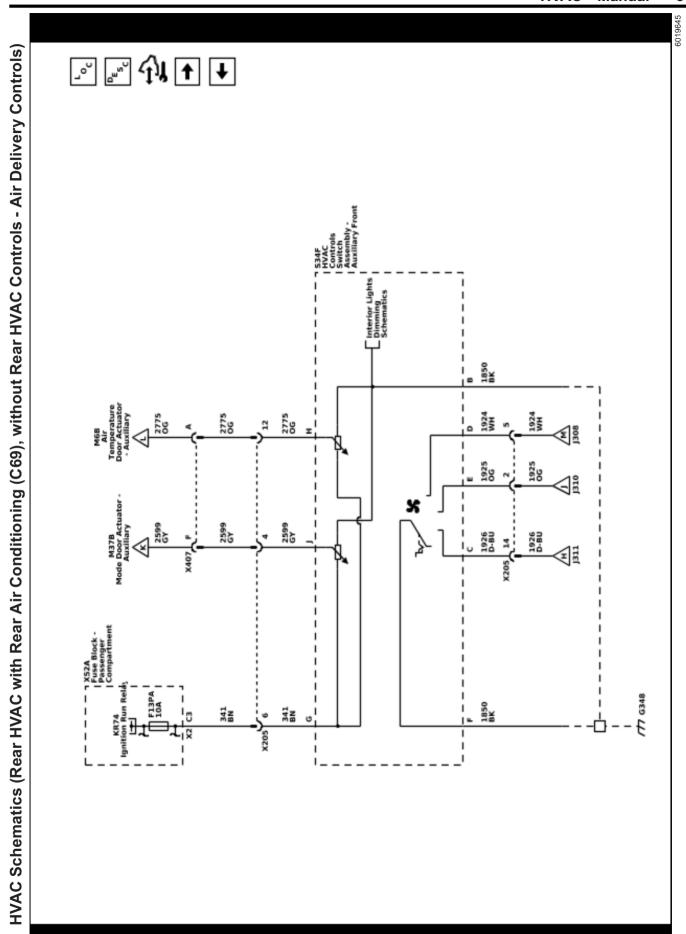


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Controls
Switch
Auxiliary Front HVAC Schematics (Rear HVAC with Rear Air Conditioning (C69), with Rear HVAC Controls - Air Delivery Controls) 77 6348 1850 BK 5262 YE 1850 BK 5261 TN 1925 0G 5260 PU 1926 P-8U 341 BN S34R HVAC Controls Switch Assembly -Auxiliary Rear 5265 5264 5263 PK/BK PU/WH BN 2775 0G 341 BN <u>8</u> 341 BN ×205

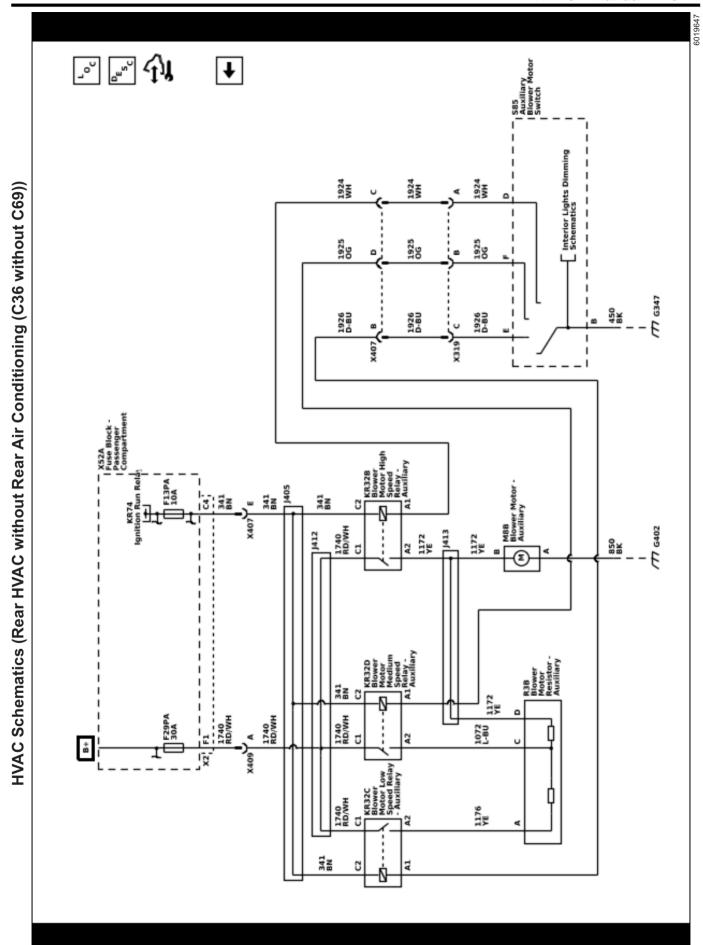


HVAC Schematics (Rear HVAC with Rear Air Conditioning (C69), with Rear HVAC Controls - Front Controls)

₽ 1 1 1 2775 0G K33A HVAC Control Module -Auxiliary 341 BN 850 BK 10 77 G402 850 BK K33A HVAC Control Module -Auxiliary 2599 GY 341 BN 88 88 1924 WH 1924 WH 341 BN S 1740 RD/WH 개72 구 기⁴¹³ 1172 YE 1925 06 1740 RD/WH C1 118(1072 L-BU 1176 YE 1926 D-80 ũ



a_NO HVAC Schematics (Rear HVAC with Rear Air Conditioning (C69), without Rear HVAC Controls - Front Controls) 2775 06 A90 Logic 820 BK Ę 341 BN 77 6402 2599 GY A90 Logic Ę 841 87 1924 WH 1924 WH 841 87 ខា្ ×407 1740 RD/WH 7,172 √1,72 1,413 J412 1172 YE 1172 YE 1925 0G 23 BN 1740 RD/WH A 1740 RD/WH 1072 L-BU B+ ž ×409 1926 1926 1926 1740 RD/WH 1926 D-BU ×407 1926 D-BU g



Description and Operation Air Delivery Description and Operation

The air delivery description and operation is divided into the following:

- HVAC Control Assembly
- Air Speed
- Auxiliary Air Speed
- Air Distribution
- · Auxiliary Air Delivery

HVAC Control Assembly

The HVAC control assembly is a non-class 2 device that interfaces between the operator and the HVAC system to maintain air temperature and distribution settings. The ignition 3 voltage circuit provides power to the control assembly. Two integrated potentiometers control air temperature door position and blower motor speed. The integrated vacuum system controls the position of the mode doors.

Air Speed

The HVAC control assembly applies voltage to the blower motor control circuit that corresponds to the selected blower speed. The resistors and the blower motor are in a series circuit. The following list represents the number of resistors in series with the blower motor per particular speed request:

- Low speed-3 resistors
- Medium 1 speed-2 resistors
- Medium 2 speed-1 resistor

When the operator requests High speed, the HVAC control assembly applies voltage to the blower motor relay through the high blower motor control circuit. The voltage energizes the blower motor relay, connecting the blower motor to battery positive voltage.

Auxiliary Air Speed

The auxiliary HVAC control assembly applies voltage to the auxiliary blower motor control circuit that corresponds to the selected blower speed. The resistors and the blower motor are in a series circuit. The following list represents the number of resistors in series with the blower motor per particular speed request:

- Low speed-2 resistors
- Medium speed-1 resistor

When the operator requests High speed, the HVAC control assembly applies voltage to the blower motor relay through the auxiliary high blower motor control circuit. The voltage energizes the blower motor relay, connecting the blower motor to battery positive voltage.

Air Distribution

The HVAC control assembly uses vacuum to control the mode door position. Vacuum is supplied to the control assembly and a vacuum tank by either an engine vacuum source, or a vacuum pump when the vehicle is equipped with a diesel engine..

Vacuum Pump (Diesel Engines)

The mechanical vacuum pump operates when the engine is running. The vacuum pump supplies vacuum to the HVAC control assembly and vacuum tank.

Mode Switch

The mode switch is a rotary vacuum valve that directly applies vacuum to the appropriate vacuum actuator. Use the mode switch to change the air delivery mode in the vehicle.

MAX A/C (If Equipped)

The mode switch applies vacuum to ports 1, 3, and 4. The mode actuators have vacuum applied to them, directing airflow to the vents. The recirculation actuator has vacuum applied to it positioning the recirculation door to recirculate air within the vehicle. A/C compressor operation is requested.

A/C (If Equipped)

The mode switch applies vacuum to ports 1 and 3. The mode actuators have vacuum applied to them, directing airflow to the vents. A/C compressor operation is requested.

Bi-Level Mode

The mode switch applies vacuum to ports 3 and 5. The inner mode and defrost actuators have vacuum applied to them, directing airflow to the vents and floor.

Vent Mode

The mode switch applies vacuum to ports 1 and 3. The mode actuators have vacuum applied to them, directing airflow to the vents.

Floor Mode

The mode switch applies vacuum to port 5. The defrost actuator has vacuum applied to it, directing airflow to the floor.

Mix-Blend Mode

The mode switch vents all ports. With no vacuum at any port, the following occurs:

- Vacuum is bled off the defrost actuator, keeping it in a neutral position. The defroster door is held stationary in the half-open directing airflow through the defroster and floor outlets.
- A/C compressor operation is requested.

Defrost Mode

The mode switch applies vacuum to port 7 and the following occurs:

- The defrost actuator has vacuum applied to it directing airflow through the defroster outlet.
- A/C compressor operation is requested.

Auxiliary Air Distribution (C69)

Auxiliary HVAC Control Processor

The auxiliary HVAC control processor controls all outputs for the auxiliary HVAC system. The auxiliary HVAC control processor receives inputs from the front and rear auxiliary HVAC control assemblies. The auxiliary HVAC control processor does not utilize Class 2 communications. If the auxiliary HVAC control processor receives a 12V varied voltage input for an

auxiliary air temperature actuator change request. Then the auxiliary HVAC control processor creates a 12V varied output for control of the auxiliary air temperature actuator.

Auxiliary Mode Actuator

The auxiliary mode actuator is a 3 wire bi-directional electric motor. Ignition 3 voltage, ground and control circuits enable the actuator to operate. The control circuit uses a 0-12V linear-ramped signal to command the actuator movement. The 0 and 12V control values represent the opposite limits of the actuator range of motion. The values in between 0 and 12V correspond to the positions between the limits. When the HVAC control assembly sets a commanded, or targeted, value, the control signal is set to a value between 0-12V. The actuator shaft rotates until the commanded position is reached. The module will maintain the control value until a new commanded value is needed.

The rear auxiliary air delivery and the temperature controls work independently of the ventilation controls used for the front of the vehicle. The rear auxiliary mode door and the rear auxiliary temperature door are exclusively controlled from either of the 2 auxiliary HVAC controls. The front auxiliary HVAC controls has a permissive position called REAR. The REAR position enables control from the rear auxiliary HVAC controls.

Air Temperature Description and Operation

The air temperature controls are divided into five areas.

- HVAC Control Components
- Heating and A/C Operation
- · Auxiliary Heating and A/C Operation
- Engine Coolant
- A/C Cycle

HVAC CONTROL COMPONENTS

HVAC Control Assembly

The HVAC control assembly is a non-class 2 device that interfaces between the operator and the HVAC system to maintain air temperature and distribution settings. The ignition 3 voltage circuits provide power to the control assembly. Two integrated potentiometers control air temperature door position and blower motor speed. The integrated vacuum system controls the mode door position.

Auxiliary HVAC Control Processor

The auxiliary HVAC control processor controls all outputs for the auxiliary HVAC system. The auxiliary HVAC control processor receives inputs from the front and rear auxiliary HVAC control assemblies. The auxiliary HVAC control processor does not utilize Class 2 communications.

If the auxiliary HVAC control processor receives a 12-volt varied voltage input for an auxiliary air temperature actuator change request. Then the auxiliary HVAC control processor creates a 12-volt varied output for control of the auxiliary air temperature actuator.

Air Temperature Actuator

The air temperature actuator and auxiliary air temperature actuator are a 3-wire bi-directional electric motor. Ignition 3 voltage, ground and control circuits enable the actuator to operate. The control circuit uses a 0–12-volt linear-ramped signal to command the actuator movement. The 0 and 12-volt control values represent the opposite limits of the actuator range of motion. The values in between 0 and 12 volts correspond to the positions between the limits.

When the HVAC control assembly sets a commanded, or targeted, value, the control signal is set to a value between 0–12 volts. The actuator shaft rotates until the commanded position is reached. The module will maintain the control value until a new commanded value is needed.

A/C Pressure Switches

The A/C system is protected by two A/C pressure switches.

- A/C low pressure switch
- A/C high pressure switch

The A/C high pressure switch interrupts the A/C request signal when the A/C line pressure is more than a predetermined value. The A/C low pressure switch interrupts the A/C low pressure switch signal when the A/C line pressure is less than or more than a predetermined value. When the powertrain control module (PCM) stops receiving the required signals, the A/C compressor clutch relay control circuit is no longer grounded, disengaging the A/C compressor clutch. The A/C compressor clutch is disengaged under the following conditions:

- A/C low pressure switch is less than 152 kPa (22 psi).
- A/C low pressure switch is more than 310 kPa (45 psi).
- A/C high pressure switch is more than 2896 kPa (420 psi).

Bypass Valves

The bypass valves included in the air temperature system are:

- · Coolant Bypass Valve
- Hot Water Bypass Valve

The bypass valve is a normally open valve, which closes when vacuum is applied to the valve. When the MAX A/C mode is selected, vacuum from the HVAC control assembly is applied to the bypass valve. The vacuum must be strong enough to overcome the tension of the valve's internal return spring in order to close the bypass valve. The return spring forces the valve to return to the open position, when any of the other HVAC modes are selected. In the closed position, the flow of coolant to the heater core is bypassed, allowing maximum cooling to the passenger compartment.

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. The vehicle operator can determine the passenger compartment

temperature by adjusting the air temperature switch. Regardless of the temperature setting, the following can effect the rate that the HVAC system can achieve the desired temperature:

- Recirculation
- Difference between inside and desired temperature
- Difference between ambient and desired temperature
- Blower motor speed setting
- Mode setting
- Auxiliary HVAC settings

The A/C system can be engaged by placing the mode switch in one of the following positions:

- Max A/C
- A/C
- Bi-Level
- Blend
- Defrost

The A/C system can operate regardless of the temperature setting. Regardless of the selected A/C mode setting, a request is sent to the PCM to turn on the A/C compressor clutch.

The following conditions must be met in order for the PCM to turn on the compressor clutch:

- Ambient air temperature is greater than 3°C (38°F)
- Engine coolant temperature (ECT) is less than 123°C (253°F)
- Engine speed is less than 5000 RPM
- The A/C compressor cycling switch pressure is between 124-388 kPa (18-49 psi)
- The A/C high pressure cutout switch is less than 2896 kPa (420 psi)

Once engaged, the compressor clutch will be disengaged for the following conditions:

- Throttle position is 100 percent
- The A/C compressor cycling switch pressure is less than 124 kPa (18 psi) or more than 338 kPa (49 psi)
- The A/C high pressure cutout switch is more than 2896 kPa (420 psi)
- Engine coolant temperature (ECT) is more than 123°C (253°F)
- Engine speed is more than 5000 RPM
- · Transmission shift
- · PCM detects excessive torque load
- PCM detects insufficient idle quality
- PCM detects a hard launch condition

When the compressor clutch disengages, the compressor clutch diode protects the electrical system from a voltage spike.

Heater Mode - Auxiliary Heater without A/C

The auxiliary blower motor recycles air from the vehicle's interior. The vehicle operator can determine the intensity of the auxiliary heater by placing the auxiliary blower motor in one of the following positions:

- Low
- Med
- High

Since there is no temperature switch, the temperature is controlled by the speed of the auxiliary blower motor. The auxiliary blower motor will only operate when the ignition is in the RUN position, and the auxiliary blower motor switch is in any position other than OFF.

Heater Mode – Front Auxiliary HVAC Control Assembly Only

The auxiliary temperature switch in the front auxiliary HVAC control assembly allows the vehicle operator to adjust the temperature in the rear of the vehicle. Power is provided to both the front auxiliary HVAC control assembly and the auxiliary air temperature actuator from the instrument panel (I/P) fuse block on the ignition 3 voltage circuit.

Voltage delivered to the front auxiliary HVAC control assembly on the ignition 3 voltage circuit is sent to a variable resistor. Based on the placement of the temperature switch, a varied voltage is sent to the auxiliary air temperature actuator on the auxiliary air temperature door control circuit. The auxiliary air temperature actuator positions the temperature door to divert the appropriate amount of air past the heater core in order to achieve the desired temperature.

Heater Mode – Front Auxiliary HVAC Control Assembly with Rear Auxiliary HVAC Control Assembly

The auxiliary temperature switch in the front auxiliary HVAC control assembly allows the vehicle operator to adjust the temperature in the rear of the vehicle. Power is provided to both the front auxiliary HVAC control assembly and the auxiliary air temperature actuator from the (I/P) fuse block on the ignition 3 voltage circuit.

Voltage delivered to the front auxiliary HVAC control assembly on the ignition 3 voltage circuit is sent to a varied resistor. Based on the placement of the temperature switch, a varied voltage is sent to the auxiliary air temperature actuator on the auxiliary air temperature door control circuit, and auxiliary HVAC control processor. The auxiliary air temperature actuator positions the temperature door to divert the appropriate amount of air past the heater core in order to achieve the desired temperature

Heater Mode – Rear Auxiliary HVAC Control Assembly

The auxiliary temperature switch in the rear auxiliary HVAC control assembly allows the rear seat passengers to adjust the temperature in the rear of the vehicle. Power is provided to the rear auxiliary HVAC control assembly, auxiliary HVAC control processor and the auxiliary air temperature actuator from the (I/P) fuse block on the ignition 3 voltage circuit.

To activate the rear auxiliary HVAC control assembly, the front auxiliary HVAC control assembly must be placed in the REAR CNTL position. Ignition 3 voltage is

sent to the auxiliary HVAC control processor. When the switch is placed in the REAR CNTL position, the voltage is grounded through the auxiliary blower motor switch control, front auxiliary HVAC control assembly and the ground circuit to allow the rear auxiliary HVAC control assembly to operate the auxiliary temperature actuator. Voltage delivered to the rear auxiliary HVAC control assembly on the ignition 3 voltage circuit is sent to a variable resistor. Based on the placement of the temperature switch, a varied voltage is sent to the auxiliary air temperature actuator on the auxiliary air temperature door control circuit, and auxiliary HVAC control processor. The auxiliary air temperature actuator positions the temperature door to divert the appropriate amount of air past the heater core in order to achieve the desired temperature.

A/C Mode – Front Auxiliary HVAC Control Assembly Only

The auxiliary temperature switch in the front auxiliary HVAC control assembly allows the vehicle operator to adjust the temperature in the rear of the vehicle. Power is provided to both the front auxiliary HVAC control assembly and the auxiliary air temperature actuator from the (I/P) fuse block on the ignition 3 voltage circuit. Voltage delivered to the front auxiliary HVAC control assembly on the ignition 3 voltage circuit is sent to a variable resistor. Based on the placement of the temperature switch, a varied voltage is sent to the auxiliary air temperature actuator on the auxiliary air temperature door control circuit. The auxiliary air temperature actuator positions the temperature door to divert the appropriate amount of air past the heater core in order to achieve the desired temperature.

A/C Mode – Front Auxiliary HVAC Control Assembly with Rear Auxiliary HVAC Control Assembly

The auxiliary temperature switch in the front auxiliary HVAC control assembly allows the vehicle operator to adjust the temperature in the rear of the vehicle. Power is provided to both the front auxiliary HVAC control assembly and the auxiliary air temperature actuator from the (I/P) fuse block on the ignition 3 voltage circuit.

Voltage delivered to the front auxiliary HVAC control assembly on the ignition 3 voltage circuit is sent to a variable resistor. Based on the placement of the temperature switch, a varied voltage is sent to the auxiliary air temperature actuator on the auxiliary air temperature door control circuit, and auxiliary HVAC control processor. The auxiliary air temperature actuator positions the temperature door to divert the appropriate amount of air past the heater core in order to achieve the desired temperature.

A/C Mode – Rear Auxiliary HVAC Control Assembly

The auxiliary temperature switch in the rear auxiliary HVAC control assembly allows the rear seat passengers to adjust the temperature in the rear of the vehicle. Power is provided to the rear auxiliary HVAC control assembly, auxiliary HVAC control processor and the auxiliary air temperature actuator from the (I/P) fuse block on the ignition 3 voltage circuit.

To activate the rear auxiliary HVAC control assembly, the front auxiliary HVAC control assembly must be placed in the REAR CNTL position. Ignition 3 voltage is sent to the auxiliary HVAC control processor. When the

switch is placed in the REAR CNTL position, the voltage is grounded through the auxiliary blower motor switch control, front auxiliary HVAC control assembly and the ground circuit to allow the rear auxiliary HVAC control assembly to operate the auxiliary temperature actuator. Voltage delivered to the rear auxiliary HVAC control assembly on the ignition 3 voltage circuit is sent to a varied resistor. Based on the placement of the temperature switch, a varied voltage is sent to the auxiliary air temperature actuator on the auxiliary air temperature door control circuit, and auxiliary HVAC control processor. The auxiliary air temperature actuator positions the temperature door to divert the appropriate amount of air past the heater core in order to achieve the desired temperature.

Engine Coolant

Engine coolant is the key element of the heating system. The thermostat controls engine operating coolant temperature. The thermostat also creates a restriction for the cooling system that promotes a positive coolant flow and helps prevent cavitation. Coolant enters the heater core through the inlet heater hose, in a pressurized state.

The heater core is located inside the HVAC module. The heat of the coolant flowing through the heater core is absorbed by the ambient air drawn through the HVAC module. Heated air is distributed to the passenger compartment, through the HVAC module, for passenger comfort.

The amount of heat delivered to the passenger compartment is controlled by opening or closing the HVAC module air temperature door. The coolant exits the heater core through the return heater hose and recirculated back through the engine cooling system.

A/C Cycle

Refrigerant is the key element in an air conditioning system. R-134a is presently the only EPA approved refrigerant for automotive use. R-134a is an very low temperature gas that can transfer the undesirable heat and moisture 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 on the vapor refrigerant. 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 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 orifice tube.

The orifice tube is located in the liquid line between the condenser and the evaporator. The orifice tube is the dividing point for the high and the low pressure sides of the A/C system. As the refrigerant passes through the orifice tube, the pressure on the refrigerant is lowered. Due to the pressure differential on the liquid refrigerant, the refrigerant will begin to vaporize at the orifice tube. The orifice tube also meters the amount of liquid refrigerant that can flow into the evaporator.

Refrigerant exiting the orifice tube 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 boil inside of 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, and completing 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 heat and moisture removed from the passenger compartment will also change form, or condense, and is discharged from the HVAC module as water.

A/C Cycle with Auxiliary

The auxiliary A/C system operates from the vehicles primary A/C system. The front or primary A/C system must be ON to allow the rear A/C system to function.

Refrigerant is the key element in an air conditioning system. R-134a is presently the only EPA approved refrigerant for automotive use. R-134a is an very low temperature gas that can transfer the undesirable heat and moisture from the passenger compartment to the outside air.

The A/C system used on this vehicle is a non cycling system. Non cycling A/C systems use a high pressure switch to protect the A/C system from excessive pressure. The high pressure switch will OPEN the electrical signal, to the compressor clutch, in the event that the refrigerant pressure becomes excessive. After the high and low side of the A/C system pressure equalize, the high pressure switch will CLOSE. Closing the high pressure switch will complete the electrical circuit to the compressor clutch. The A/C system is also mechanically protected with the use of a high pressure relief valve. If the high pressure 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.

The A/C compressor is belt driven and operates when the magnetic clutch is engaged. The compressor builds pressure on the vapor refrigerant. 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.

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. The liquid line flow is split and the liquid refrigerant flows to both the front or primary A/C system, and to the liquid line for the rear A/C system.

The liquid refrigerant, flowing to the rear A/C system, flows into the rear TXV. The rear TXV is located at the rear evaporator inlet. The TXV is the dividing point for the high and the low pressure sides of the rear A/C system. As the refrigerant passes through the TXV, the pressure on the refrigerant is lowered. Due to the pressure differential on the liquid refrigerant, the refrigerant will begin to boil at the expansion device. 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 rear A/C module and passes through the evaporator core. Warm and moist air will cause the liquid refrigerant boil inside of 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 primary A/C systems suction line. Refrigerant in the primary A/C system suction line flows back to the compressor, in a vapor state, and 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 rear A/C module for passenger comfort. The heat and moisture removed from the rear passenger compartment will also change form, or condense, and is discharged from the rear A/C module as water.

Section 6

Power and Signal Distribution

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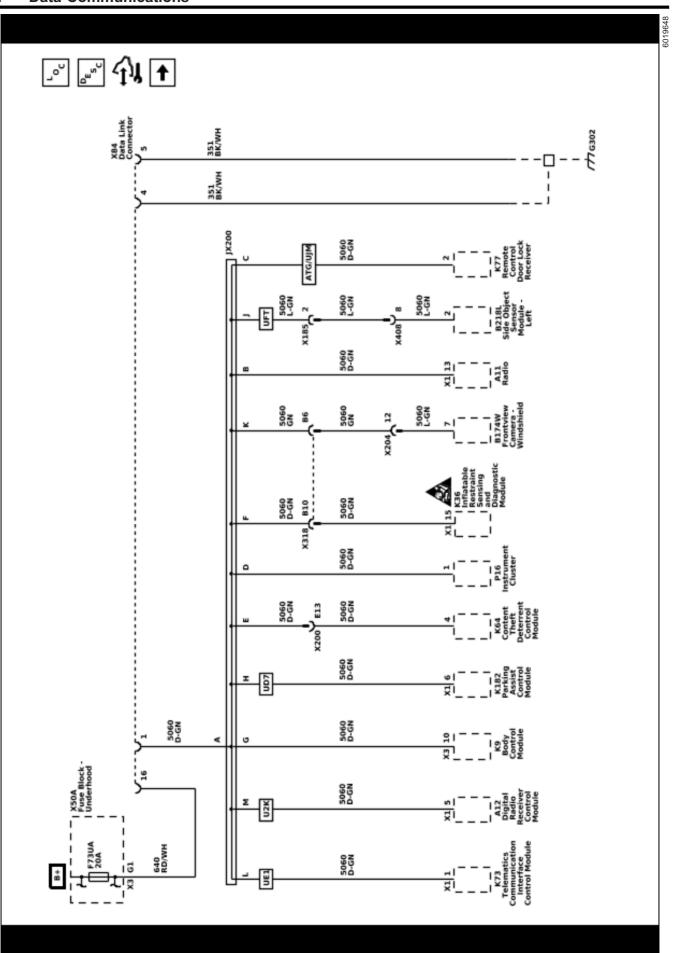
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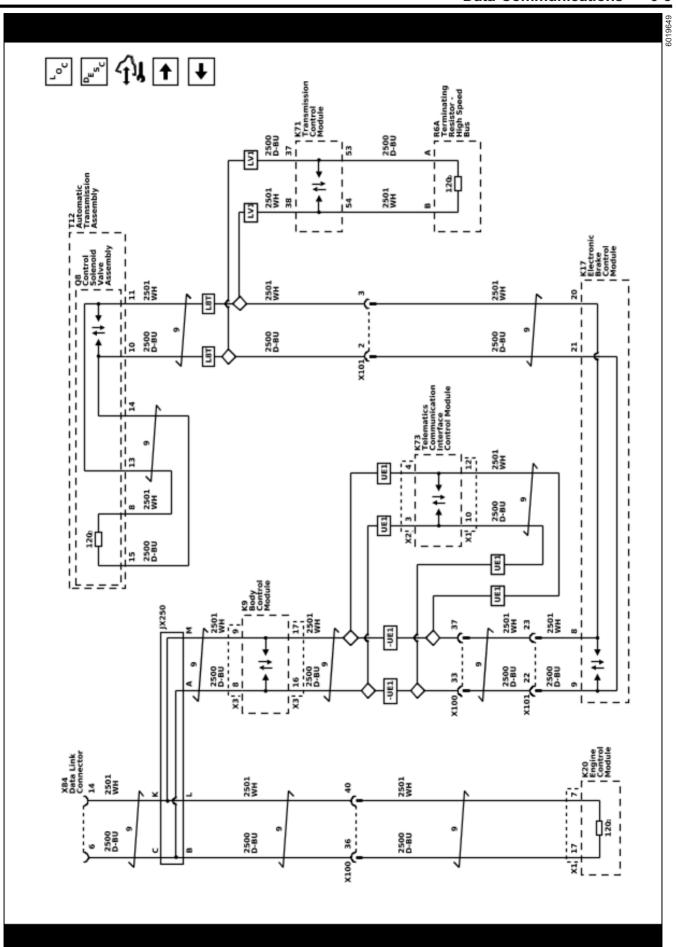
Data Communications

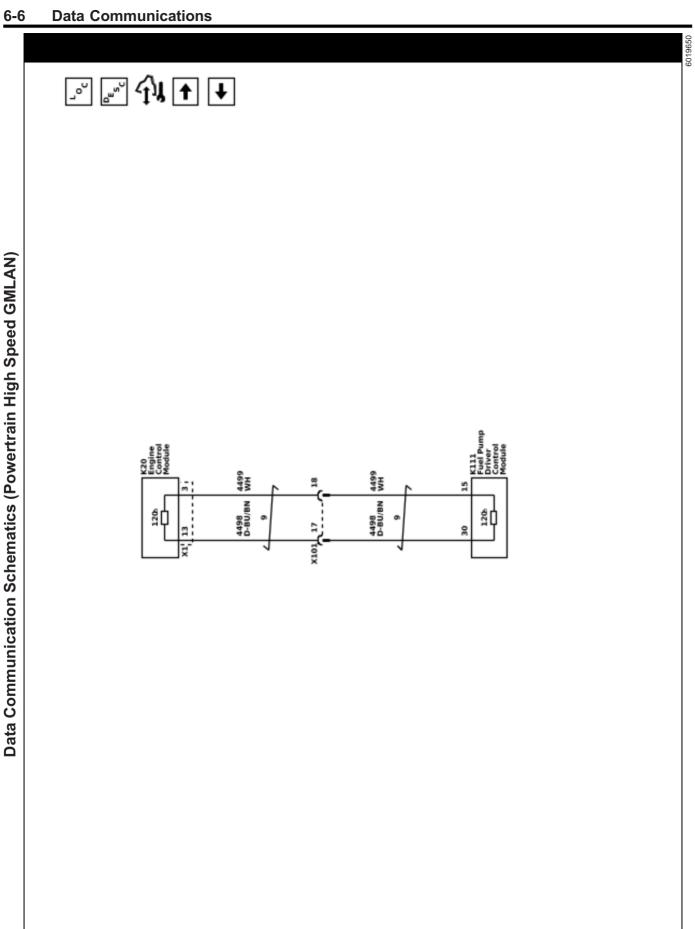
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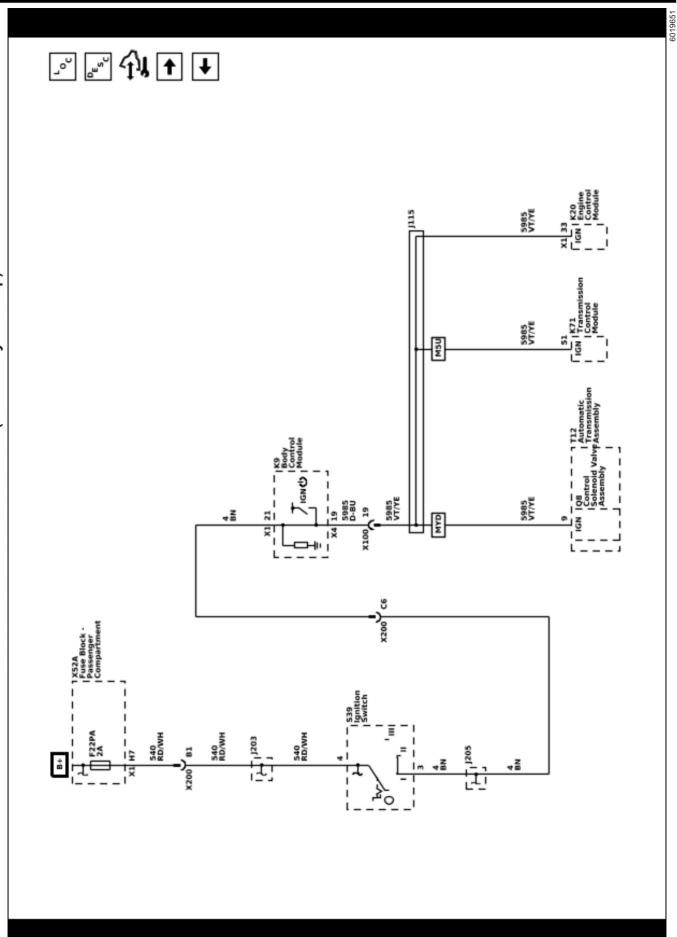


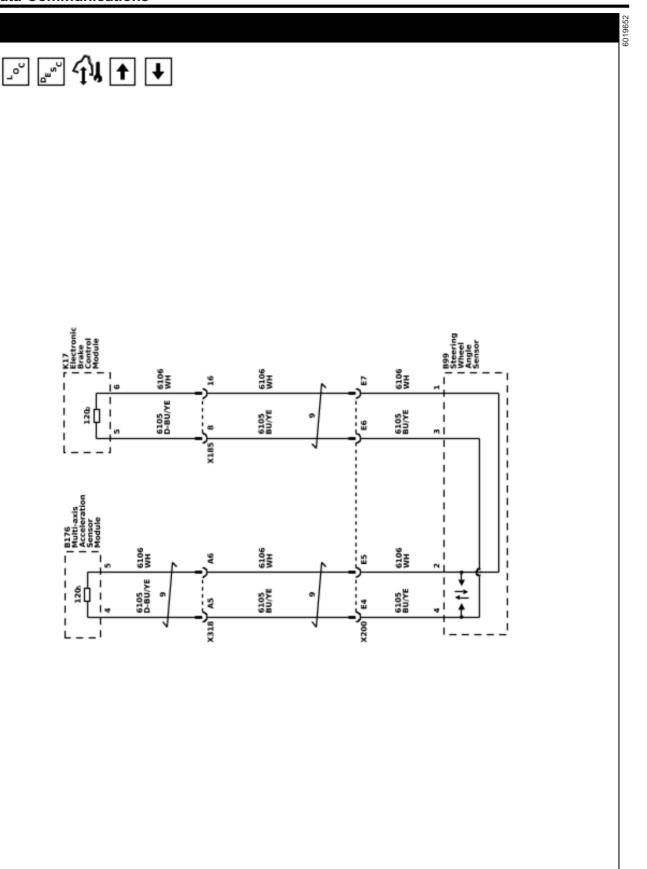


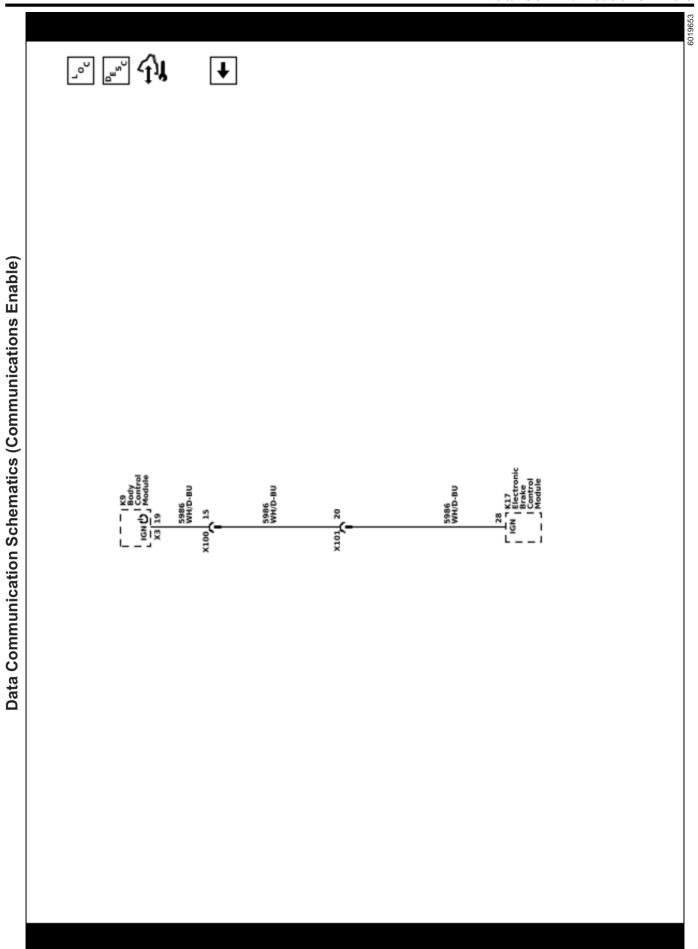


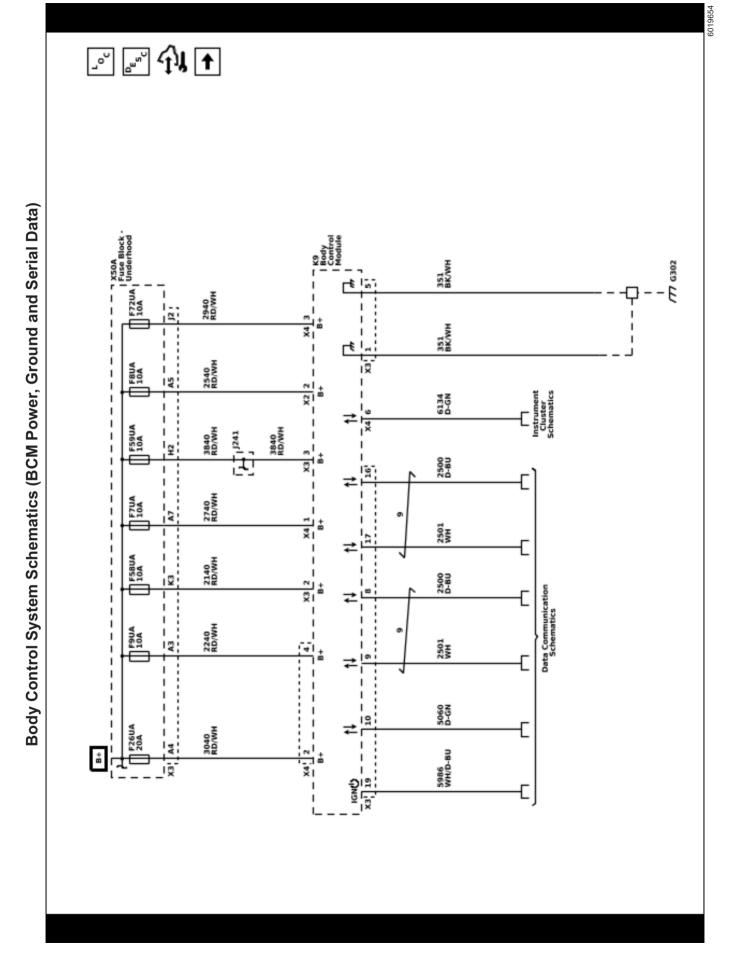


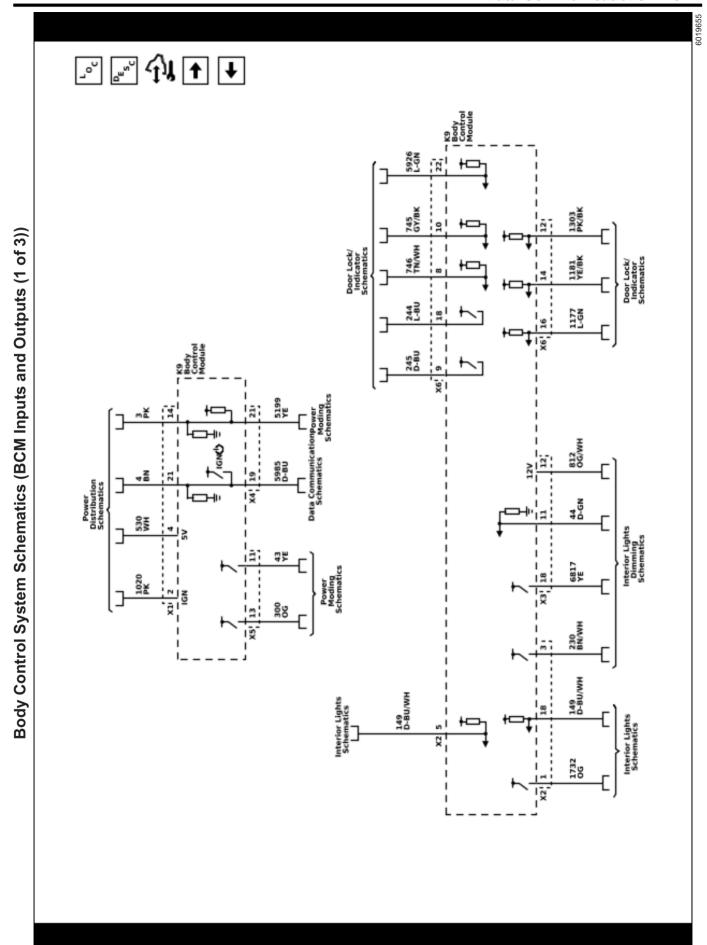


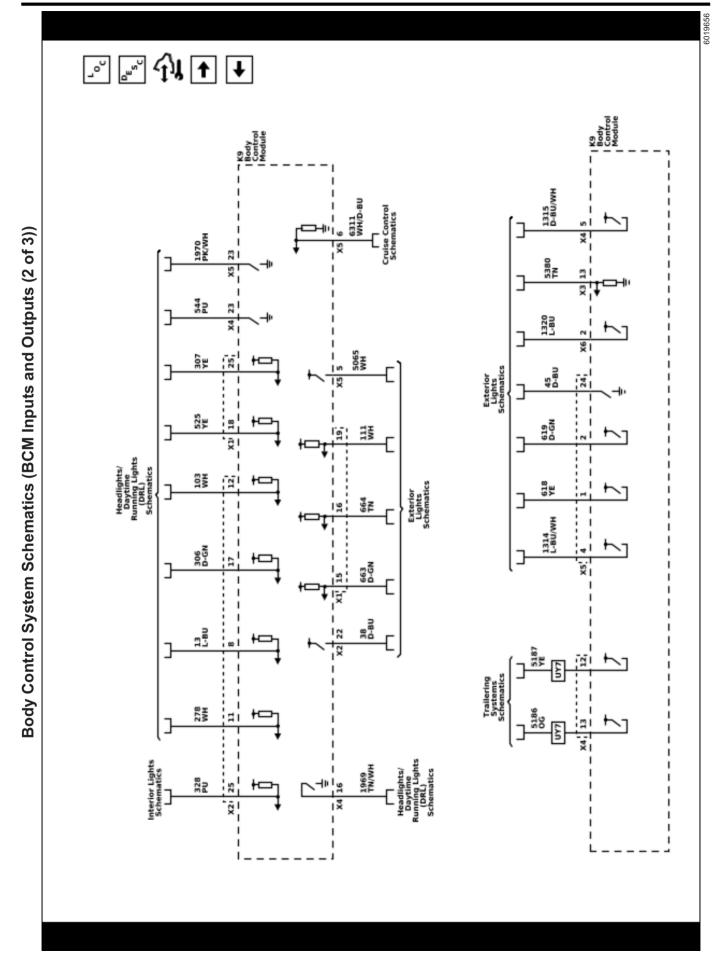


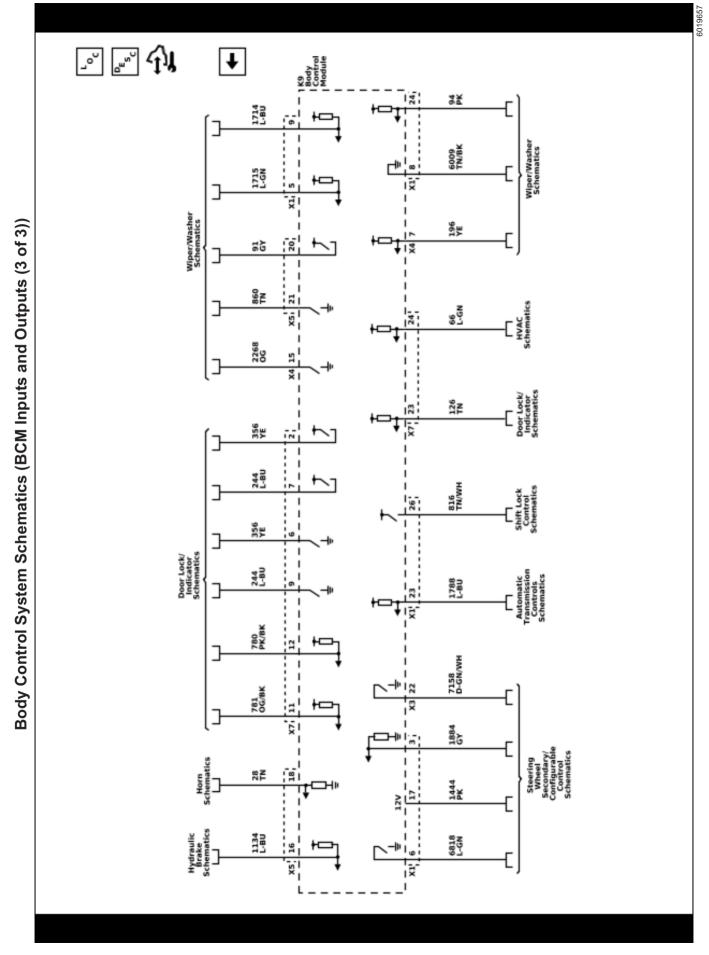












Description and Operation Body Control System Description and Operation

The body control system consists of the body control module (BCM), communications, and various input and outputs. Some inputs, outputs and messages require other modules to interact with the BCM. The BCM also has discrete input and output terminals to control the vehicle's body functions. The BCM is wired to the GMLAN High speed serial data bus and the GMLAN Low speed serial data bus and acts as a gateway between them. If the BCM does not communicate the vehicle will not start due to the inability of the Engine/ Powertrain Control Module (ECM/PCM) and Vehicle Theft Deterrent (VTD) Control Module to communicate without the BCM providing the gateway function.

Power Mode Master

This vehicles BCM functions as the power mode master (PMM). The ignition switch is a low current switch with multiple discrete ignition switch signals to the PMM for determination the power mode that will be sent over the serial data circuits to the other modules that need this information, and so the PMM will activate relays and other direct outputs of the PMM as needed. Refer to Power Mode Description and Operation on page 6-594 for a complete description of power mode functions.

Serial Data Gateway

The BCM in this vehicle functions as a gateway or translator. The purpose of the gateway is to translate serial data messages between the GMLAN high speed bus and the GMLAN low speed bus for communication between the various modules. The gateway will interact with each network according to that network's transmission protocol.

One example of this necessary communication is the communication between the Engine/Powertrain Control Module (ECM/PCM) which is high speed serial data and Vehicle Theft Deterrent (VTD) Control Module which is low speed serial data. If these modules can not exchange information, the vehicle will not start.

Communication between the BCM and a scan tool can be on the high speed GMLAN network or low speed GMLAN network. If one network is lost, the BCM can still communicate with the scan tool. A lost communication DTC typically is set in modules other than the module with a communication failure.

Body Control Module

The various body control module (BCM) input and output circuits are described in the corresponding functional areas indicated on the BCM electrical schematics. Some BCM functions with the subsystems may be as a gateway only or as an enable for the system. The BCM related systems/subsystems include, but are not limited to the following:

- Antilock brake system (ABS)
- Cruise control system
- Exterior lighting—Refer to <u>Exterior Lighting</u> <u>Systems Description and Operation</u>.
- Horn system —Refer to <u>Horns System Description</u> and <u>Operation on page 2-10</u>.

- Instrument cluster indicator control
- Interior lighting—Refer to <u>Interior Lighting</u> Systems Description and Operation.
- Power door lock system —Refer to <u>Power Door Locks Description and Operation on page 2-26</u>.
- Rear window defogger system —Refer to <u>Rear Window Defogger Description and Operation on page 2-6.</u>
- Remote function actuation (RFA) control—Refer to <u>Keyless Entry System Description and Operation</u> on page 7-13.
- Retained accessory power (RAP)—Refer to <u>Retained Accessory Power Description and</u> <u>Operation on page 6-595.</u>
- Shift lock control system —Refer to <u>Automatic</u> <u>Transmission Shift Lock Control Description and</u> <u>Operation on page 8-5.</u>
- Starting system—Refer to <u>Starting System</u> Description and Operation on page 4-15.
- Supplemental inflatable restraint (SIR) system Refer to <u>Supplemental Inflatable Restraint System</u> <u>Description and Operation on page 7-24.</u>
- Theft deterrent—Refer to <u>Immobilizer Description</u> and Operation on page 7-5.
- Wiper/Washer system functions

Data Link Communications Description and Operation

Circuit Description

The communication among control modules is performed primarily through the GMLAN high speed serial data circuit and the GMLAN low speed serial data circuits. The modules that need real time communication are attached to the high speed GMLAN network. The body control module (BCM) is the serial data gateway between the networks. The purpose of the gateway is to translate serial data messages between the GMLAN high speed bus and the GMLAN low speed bus. The Local Interconnect Network (LIN) is another serial data communication network used on this vehicle which is dedicated to the remote compass module (RCM) subsystem. Below are more detailed descriptions of the individual networks. The gateway will interact with each network according to that network's transmission protocol. Refer to **Body Control** System Description and Operation on page 6-14 for more information about the gateway.

GMLAN High Speed Circuit Description

The data link connector (DLC) allows a scan tool to communicate with the high speed GMLAN serial data circuit. The serial data is transmitted on two twisted wires that allow speed up to 500 Kb/s. The twisted pair is terminated with two 120 ohms resistors. The resistors are used to reduce noise on the High Speed GMLAN bus during normal vehicle operation. The high speed GMLAN serial data (+) and high speed GMLAN serial data (-) are driven to opposite extremes from a rest or idle level. The idle level, which is approximately 2.5 volts, is considered recessive transmitted data and is interpreted as a logic 1. Driving the lines to their extremes, adds one volt to the high speed GMLAN

serial data (+) and subtracts one volt from the high speed GMLAN serial data (-) wire. This dominant state is interpreted as a logic 0. GMLAN network management supports selective start up and is based on virtual networks. A virtual network is a collection of signals started in response to a vehicle event. The starting of a virtual network signifies that a particular aspect of the vehicles functionality has been requested. A virtual network is supported by virtual devices, which represents a collection of signals owned by a single physical device. So, any physical device can have one or more virtual devices. The signal supervision is the process of determining whether an expected signal is being received or not. Failsofting is the ability to substitute a signal with a default value or a default algorithm, in the absence of a valid signal. Some messages are also interpreted as a heartbeat of a virtual device. If such a signal is lost, the application will set a no communication code against the respective virtual device. This code is displayed on the Tech 2 screen as a code against the physical device. Note: a loss of serial data DTC does not represent a failure of the module that the code is set in.

GMLAN Low Speed Circuit Description

The data link connector (DLC) allows a scan tool to communicate with the low speed GMLAN serial data circuit. The serial data is transmitted over a single wire to the appropriate control modules. The transmission speed for GMLAN low speed is up to 83.33 Kb/s. Under normal vehicle operating conditions, the speed of the bus is 33.33 Kb/s. This protocol produces a simple pulse train sent out over the GMLAN low speed serial data bus. When a module pulls the bus high, 5 volts, this creates a dominant logic state or 0 on the bus. When the bus is pulled low, 0 volts, it is translated as a recessive logic state or 1. To wake the control modules connected to the GMLAN low speed serial data bus, a high voltage wake up pulse is sent out over the bus, the voltage level of the pules is +10 volts. Modules connected to the GMLAN low speed bus can be part of a virtual network as described in the previous paragraph. Most modules on the GMLAN low speed serial data bus are connected to the bus in a parallel configuration. Refer to the schematics to determine modules that are not in parallel

Local Interconnect Network (LIN) Description

The remote compass module (RCM) communicates with the BCM utilizing a single wire LIN communication link. The BCM is the gateway for the GMLAN network. All data is communicated on the LIN bus, therefore there are only 3 circuits to the RCM as follows:

- Ground
- LIN bus
- Voltage

Data Link Connector (DLC)

The data link connector (DLC) is a standardized 16-cavity connector. Connector design and location is dictated by an industry wide standard, and provides the following:

- Pin 1 GMLAN low speed communications terminal
- Pin 4 Scan tool power ground terminal
- · Pin 5 Common signal ground terminal
- Pin 6 High speed GMLAN serial data bus (+) terminal
- Pin 14 High speed GMLAN serial data bus (-) terminal
- Pin 16 Scan tool power, battery positive voltage terminal

Serial Data Reference

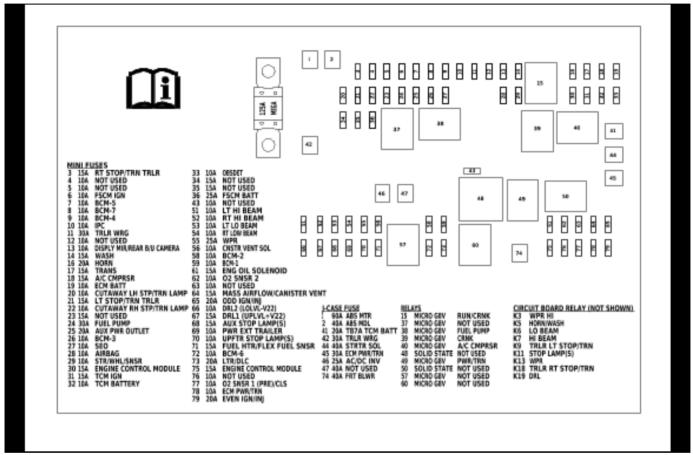
The scan tool communicates over the various busses on the vehicle. When a scan tool is installed on a vehicle, the scan tool will try to communicate with every module that could be optioned into the vehicle. If an option is not installed on the vehicle, the scan tool will display No Comm for that options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

Electrical Component and Inline Harness Connector End Views

Component Locator

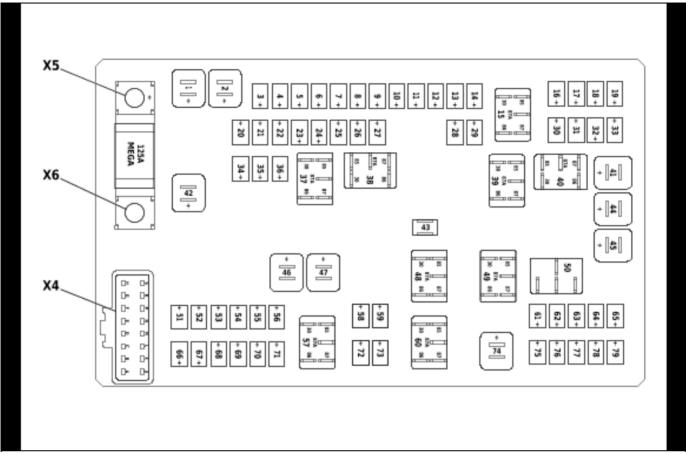
Electrical Center Identification Views

X50A Fuse Block - Underhood Label



5702954

X50A Fuse Block - Underhood Top View



4846863

Usage Table

	Osage Table							
No.	Device Label Name	Device Assigned Name	Rating	Description				
Mega Fuse	es							
MEGA	_	MEGA	125A	X52A Fuse Block - Passenger Compartment				
Mini Fuses	5							
3	RT STOP/TRN TRLR	F3UA	15A	X88 Trailer Connector				
4	NOT USED	F4UA	10A	Not Used				
5	NOT USED	F5UA	10A	Not Used				
6	FSCM IGN	F6UA	10A	K111 Fuel Pump Driver Control Module				
7	BCM-5	F7UA	10A	K9 Body Control Module				
8	BCM-7	F8UA	10A	K9 Body Control Module				
9	BCM-4	F9UA	10A	K9 Body Control Module				
10	IPC	F10UA	10A	P16 Instrument Cluster				
11	TRLR WRG	F11UA	30A	W8 Blunt Cut - Trailer Provision (UY7)				
12	NOT USED	F12UA	10A	Not Used				
13	DISPLY MIR/ REAR B/U CAM- ERA	F13UA	10A	A10 Inside Rearview Mirror (UVC) B87 Rearview Camera (UVC)				
14	WASH	F14UA	15A	G24 Windshield Washer Pump				
16	HORN	F16UA	20A	P13 Horn Assembly				
17	TRANS	F17UA	15A	Not Used				

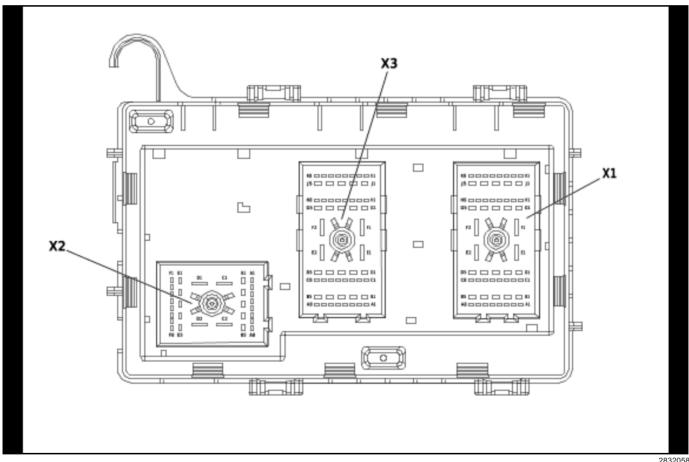
No.	Device Label	Device Assigned Name	ge Table (
18	Name A/C CMPRSR	F18UA	Rating 15A	• Q2 A/C Compressor Clutch (C60)
19	ECM BATT	F19UA	10A	
19	CUTAWAY LH	FISUA	TUA	K20 Engine Control Module
20	STP/TRN LAMP	F20UA	10A	• X405
21	LT STOP/TRN TRLR	F21UA	15A	X88 Trailer Connector
22	CUTAWAY RH STP/TRN LAMP	F22UA	10A	• X405
23	NOT USED	F23UA	20A	Not Used
24	FUEL PUMP	F24UA	20A	Not Used
25	AUX PWR OUT- LET	F25UA	20A	X80B Accessory Power Receptacle - Center Console 2
26	BCM-3	F26UA	10A	K9 Body Control Module
27	SEO	F27UA	10A	Not Used
28	AIRBAG	F28UA	10A	K36 Inflatable Restraint Sensing and Diagnostic Module S40 Passenger Air Bag Disable Switch (C99)
29	STR/WHL/SNSR	F29UA	10A	Not Used
30	ENGINE CON- TROL MODULE	F30UA	15A	K20 Engine Control Module
31	TCM IGN	F31UA	15A	K71 Transmission Control Module (M5U) T12 Automatic Transmission Assembly (MYD)
32	TCM BATTERY	F32UA	10A	T12 Automatic Transmission Assembly
33	OBSDET	F33UA	10A	B218L Side Object Sensor Module - Left (UFT) B218R Side Object Sensor Module - Right (UFT) K182 Parking Assist Control Module (UD7)
34	NOT USED	F34UA	15A	Not Used
35	NOT USED	F35UA	15A	Not Used
36	FSCM BATT	F36UA	25A	K111 Fuel Pump Driver Control Module
43	NOT USED	F43UA	10A	Not Used
51	LT HI BEAM	F51UA	10A	E4E Headlamp - Left High Beam
52	RT HI BEAM	F52UA	10A	E4F Headlamp - Right High Beam
53	LT LO BEAM	F53UA	10A	E4G Headlamp - Left Low Beam
54	RT LO BEAM	F54UA	10A	E4H Headlamp - Right Low Beam
55	WPR	F55UA	25A	KR12B Windshield Wiper Relay
56	CNSTR VENT SOL	F56UA	10A	Q13 Evaporative Emission Vent Solenoid Valve
58	BCM-2	F58UA	10A	K9 Body Control Module
59	BCM-1	F59UA	10A	K9 Body Control Module
61	ENG OIL SOLE- NOID	F61UA	15A	Q44 Engine Oil Pressure Control Solenoid Valve (L8T)
62	O2 SNSR 2	F62UA	10A	B52D Heated Oxygen Sensor - Bank 1 Sensor 2 B52F Heated Oxygen Sensor - Bank 2 Sensor 2
63	NOT USED	F63UA	10A	Not Used
64	MASS AIRFLOW/ CANISTER VENT	F64UA	15A	B75C Multifunction Intake Air Sensor Q12 Evaporative Emission Purge Solenoid Valve

No	Device Label	Device Assigned	Deting	Description
No.	Name	Name	Rating	Description K20 Engine Control Module
				T8A Ignition Coil 1
65	ODD IGN/INJ	F65UA	20A	• T8C Ignition Coil 3
				T8E Ignition Coil 5T8G Ignition Coil 7 (L8T)
66	DRL2 (LOLVL- V22)	F66UA	10A	Not Used
	,			
67	DRL1 (UPLVL +V22)	F67UA	15A	E4G Headlamp - Left Low Beam
68	AUX STOP LAMP(S)	F68UA	15A	• X405 (Cutaway)
69	PWR EXT TRAILER	F69UA	10A	W8 Blunt Cut - Trailer Provision (UY7)
70	UPFTR STOP LAMP(S)	F70UA	10A	W25 Blunt Cut - Configurable Provision
71	FUEL HTR/FLEX FUEL SNSR	F71UA	15A	Not Used
72	BCM-6	F72UA	10A	K9 Body Control Module
73	LTR/DLC	F73UA	20A	X80A Accessory Power Receptacle - Center Console 1
				X84 Data Link Connector
75	ENGINE CON- TROL MODULE	F75UA	15A	K20 Engine Control Module
76	NOT USED	F76UA	10A	Not Used
77	O2 SNSR 1 (PRE)/ CLS	F77UA	10A	B52C Heated Oxygen Sensor - Bank 1 Sensor 1 B52E Heated Oxygen Sensor - Bank 2 Sensor 1
78	ECM PWR/TRN	F78UA	10A	Not Used
79	EVEN IGN/INJ	F79UA	20A	 K20 Engine Control Module T8B Ignition Coil 2 T8D Ignition Coil 4 T8F Ignition Coil 6 T8H Ignition Coil 8 (L8T)
J-Case Fu	uses			
1	ABS MTR	F1UA	60A	K17 Electronic Brake Control Module
2	ABS MDL	F2UA	40A	K17 Electronic Brake Control Module
41	T87A TCM BATT	F41UA	20A	K71 Transmission Control Module (M5U)
42	TRLR WRG	F42UA	30A	X88 Trailer Connector (UY7)
44	STRTR SOL	F44UA	40A	M64 Starter Motor
45	ECM PWR/TRN	F45UA	30A	K20 Engine Control Module
46	AC/DC INV	F46UA	25A	T1 Accessory DC/AC Power Inverter Module (KI4)
47	FAN LO	F47UA	40A	Not Used
74	FRT BLWR	F74UA	40A	R3 Blower Motor Resistor

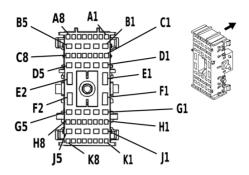
No.	Device Label Name	Device Assigned Name	Rating	Description
Relays	•	•		
15	RUN/CRNK	KR93 Ignition Run/ Crank Relay		 F6UA F10UA F12UA F13UA F17UA F28UA F29UA F30UA F31UA
37	NOT USED	KR150 Relay - Spare	_	• F23UA
38	FUEL PUMP	KR23A Fuel Pump Relay	_	• F24UA
39	CRNK	KR27 Starter Relay	_	• F44UA
40	A/C CMPRSR	KR29 A/C Com- pressor Clutch Re- lay	_	• F18UA
48	NOT USED	KR150 Relay - Spare	_	Not Used
49	PWR/TRN	KR75 Engine Controls Ignition Relay		 F45UA F61UA F62UA F63UA F64UA F65UA F71UA F75UA F76UA F77UA F78UA F78UA F79UA
50	NOT USED	KR150 Relay - Spare	_	Not Used
57	NOT USED	KR150 Relay - Spare	_	Not Used
60	NOT USED	KR150 Relay - Spare	_	Not Used
Important:	Relays listed below	1	Printed Circui	t Board (PCB) relays and are internal to the block.
K3	WPR HI	KR12C Windshield Wiper Speed Con- trol Relay	_	M75 Windshield Wiper Motor
K5	HORN/WASH	KR3 Horn Relay, KR11 Windshield Washer Pump Re- lay	_	• F14UA • F16UA
K6	LO BEAM	KR49 Headlamp Low Beam Relay	_	• F53UA • F54UA
K7	HI BEAM	KR48 Headlamp High Beam Relay	_	• F51UA • F52UA
K9	TRLR LT STOP/ TRN	KR63L Trailer Stop/Turn Signal Lamp Relay - Left	_	• F5UA • F20UA • F21UA

No.	Device Label Name	Device Assigned Name	Rating	Description
K11	STOP LAMP(S)	KR59 Stop Lamp Relay	_	F68UAF69UAF70UA
K13	WPR	KR12B Windshield Wiper Relay	_	KR12C Windshield Wiper Speed Control Relay
K18	TRLR RT STOP/ TRN	KR63R Trailer Stop/Turn Signal Lamp Relay - Right	_	• F3UA • F4UA • F22UA
K19	DRL	KR42 Daytime Running Lamps Relay	_	• F66UA • F67UA

X50A Fuse Block - Underhood Bottom View



X50A Fuse Block - Underhood X1



2083844

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 15477823 Service Connector: 13574911

Description: 56-Way F 150, 280 GT Metri-Pack 800 Series(L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575735	J-35616-14 (GN)	J-38125-215A
II	13575753	J-35616-4A (PU)	J-38125-215A
III	19367554	J-35616-44 (YE)	J-38125-558

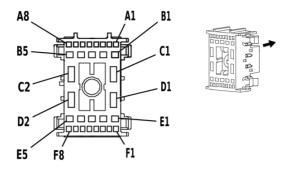
X50A Fuse Block - Underhood X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.5	RD / WH	140	Battery Positive Voltage	I	_
A2	0.5	RD / L- GN	1840	Battery Positive Voltage	1	_
A3 - A8	_	_	_	Not Occupied	_	_
B1	0.5	RD / D- BU	840	Battery Positive Voltage	II	
B2	0.5	BN / L- GN	59	A/C Compressor Clutch Control	II	
В3		_		Not Occupied	_	_
B4	1	BN / GY	29	Horn Control	II	
B5	0.5	VT / L- GN	439	Run/Crank Ignition 1 Voltage	II	
C1	_	_	_	Not Occupied	_	_
C2	0.5	WH / GY	459	A/C Compressor Clutch Relay Control	I	_
C3 - C5		_		Not Occupied	_	
C6	0.5	YE / BK	625	Starter Enable Relay Control	I	
C7	1	BK	1250	Ground	I	
C8	1	_	1	Not Occupied	_	_
D1	0.75	RD / L- GN	1840	Battery Positive Voltage	II	
D2	_	_		Not Occupied	_	_
D3	0.5	VT / BK	2139	Run/Crank Ignition 1 Voltage	II	_

X50A Fuse Block - Underhood X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
D4 - D5	_	_	_	Not Occupied	_	_
E1	4	YE	6	Starter Solenoid Crank Ignition Voltage	III	_
E2	_	_	_	Not Occupied	_	_
F1	2.5	VT / D- BU	5290	Powertrain Main Relay Fused Supply Voltage 1	III	_
F2	5	RD / PU	542	Battery Positive Voltage	III	_
G1	0.75	VT / GY	1039	Run/Crank Ignition 1 Voltage	II	_
G2	1 1	VT / D- BU VT / GY	5291 1039	Powertrain Main Relay Fused Supply Voltage 2 Run/Crank Ignition 1 Voltage	II II	L8T LV1
G3	_	_	_	Not Occupied	_	_
G4	0.75	VT / D- BU	5294	Powertrain Main Relay Fused Supply Voltage 5	П	_
G5	0.5	VT / WH	1939	Run/Crank Ignition 1 Voltage	II	_
H1 - H8	_	_	_	Not Occupied	_	_
J1	0.75	VT / BK	1239	Run/Crank Ignition 1 Voltage	II	_
J2	1 1	VT / D- BU VT / BK	5292 1239	Powertrain Main Relay Fused Supply Voltage 3 Run/Crank Ignition 1 Voltage	II II	L8T LV1
J3	_	_	_	Not Occupied	_	_
J4	0.75	VT / D- BU	5291	Powertrain Main Relay Fused Supply Voltage 2	П	_
J5	0.5	VT / D- BU	5293	Powertrain Main Relay Fused Supply Voltage 4	П	_
K1	0.5	VT / BU	5293	Powertrain Main Relay Fused Supply Voltage 4	I	_
K2 - K3	_	_	_	Not Occupied		
K4	0.5	VT / BU	5291	Powertrain Main Relay Fused Supply Voltage 2	I	_
K5 - K7		_	_	Not Occupied	_	<u> </u>
K8	0.5	YE	5991	Powertrain Relay Coil Control	I	_

X50A Fuse Block - Underhood X2



1665657

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 13567518

Service Connector: Service by Harness - See Part Catalog
Description: 30-Way F 150, 280 GT Metri-Pack 800 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-35616-35 (VT)	No Tool Required	
III	Not required	J-35616-44 (YE)	No Tool Required	
IV	Not required	J-35616-4A (PU)	No Tool Required	

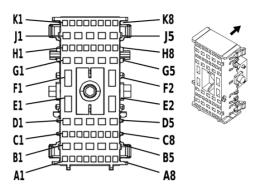
X50A Fuse Block - Underhood X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	_	_	_	Not Occupied	_	_
A2	1	YE	618	Left Rear Turn Signal Lamp Control	I	_
А3	0.8	D-BU / WH	149	Courtesy Lamp Control	I	_
A4	1	D-GN	619	Right Rear Turn Signal Lamp Control	I	_
A5 - A6	_	_	_	Not Occupied	_	_
A7	1	BN	2109	Trailer Park Lamp Control	1	_
A8	0.5	VT	2739	Run/Crank Ignition 1 Voltage	I	_
B1 - B4	_	_	_	Not Occupied	_	_
B5	1	D-GN	1619	Right Rear Trailer Stop/Turn Lamp Control	IV	_
C1	_	_	_	Not Occupied	_	_
C2	2.5	RD / VT	1640	Battery Positive Voltage	III	_
D1	3	RD / BK	742	Battery Positive Voltage	III	_
D2	5	RD / YE	442	Battery Positive Voltage	III	_
E1	_	_	_	Not Occupied	_	_
E2	0.8	L-BU	1320	Center High Mounted Stop Lamp Control 2	IV	_
E3	3	D-BU	47	Trailer Auxiliary Control	II	
E4	1	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	IV	
E5	2.5	RD / VT	1940	Battery Positive Voltage	II	_

X50A Fuse Block - Underhood X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
F1	1	L-GN	1624	Trailer Backup Lamp Control	_	
F2	0.5	RD / L- GN	40	Battery Positive Voltage	_	
F3	1	BN	2109	Trailer Park Lamp Control		
F4 - F6	_	_	_	Not Occupied		
F7	1	D-GN	619	Right Rear Turn Signal Lamp Control	Ī	_
F8	1	YE	618	Left Rear Turn Signal Lamp Control	I	

X50A Fuse Block - Underhood X3



1581655

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15477822 Service Connector: 19115189

Description: 56-Way F 150, 280 GT Metri-Pack 800 Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
1	13575735	J-35616-14 (GN)	J-38125-215A	
II	13575756	J-35616-4A (PU)	J-38125-215A	
III	19367554	J-35616-44 (YE)	J-38125-558	

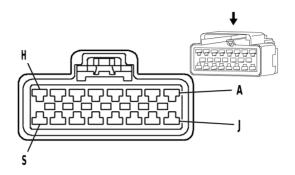
X50A Fuse Block - Underhood X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.35	PK	1639	Run/Crank Ignition 1 Voltage	I	_
A2	_	_	_	Not Occupied	_	_
A3	0.8	RD / WH	2240	Battery Positive Voltage	I	_
A4	0.8	RD / WH	3040	Battery Positive Voltage	I	_
A5	0.5	RD / WH	2540	Battery Positive Voltage	I	_
A6	_	_	_	Not Occupied	_	_
A7	0.8	RD / WH	2740	Battery Positive Voltage	I	_
A8	_	_	_	Not Occupied	_	_
B1	3	RD / WH	3940	Battery Positive Voltage	II	_
B2	0.35	PK	1139	Run/Crank Ignition 1 Voltage	II	_
В3	0.35	PK	1139	Run/Crank Ignition 1 Voltage	II	_
B4	1	RD / WH	1040	Battery Positive Voltage	II	_
B5	1	BN	2109	Trailer Park Lamp Control	II	_
C1	0.5	PK	239	Run/Crank Ignition 1 Voltage	I	_
C2 - C3	_	_	_	Not Occupied	_	_
C4	0.35	OG	5186	Left Trailer Turn Signal Lamp Control	I	_
C5	1	BN	2109	Trailer Park Lamp Control	I	_
C6	1	D-GN	619	Right Rear Turn Signal Lamp Control	I	_
C7	0.8	D-BU / WH	149	Courtesy Lamp Control	I	_

X50A Fuse Block - Underhood X3 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
C8	1	YE	618	Left Rear Turn Signal Lamp Control	I	_
D1	0.5	OG	228	Windshield Washer Pump Control	П	_
D2	0.35	YE	5199	Run/Crank Relay Coil Control	П	_
D3	1	L-GN	1624	Trailer Backup Lamp Control	П	_
D4	3	D-BU	47	Trailer Auxiliary Control	П	_
D5 - E1	_	_	_	Not Occupied	_	_
E2	3	RD / WH	4140	Battery Positive Voltage	III	_
F1 - F2	_	_	_	Not Occupied	_	_
G1	0.8	RD / WH	640	Battery Positive Voltage	П	_
G2	0.35	OG	2268	Windshield Washer Relay Control	П	_
G3	0.35	YE	5187	Right Trailer Turn Signal Lamp Control	П	_
G4	2	PU	92	Windshield Wiper Motor High Speed Control	II	_
G5	2	D-GN	95	Windshield Wiper Motor Low Speed Control	II	_
H1	_	_	_	Not Occupied	_	_
H2	1	RD / WH	3840	Battery Positive Voltage	I	_
H3	0.35	TN	28	Horn Relay Control	I	_
H4	0.35	PK / WH	1970	Headlamp Low Beam Relay Control	I	_
H5	0.35	PU	544	DRL Relay Control	I	_
H6	0.35	GY	91	Windshield Wiper Motor Relay Coil Control	I	_
H7	0.5	WH	5065	Stop Lamp Relay Coil Control	I	_
H8	0.35	TN	860	Windshield Wiper Switch High Signal	I	_
J1	1	RD / WH	640	Battery Positive Voltage	П	_
J2	0.8	RD / WH	2940	Battery Positive Voltage	II	_
J3	0.75	GY / BN	2309	Front Park Lamp Control	П	_
J4	0.8	D-BU / WH	1315	Right Front Turn Signal Lamp Control	II	_
J5 - K2		_	_	Not Occupied	_	_
K3	0.8	RD / WH	2140	Battery Positive Voltage	I	_
K4	0.5	L-BU	20	Stop Lamp Control	I	_
K5	0.5	L-BU / WH	6311	Cruise/ETC/TCC Brake Signal	I	_
K6	_	_	_	Not Occupied	_	_
K7	0.8	L-BU / WH	1314	Left Front Turn Signal Lamp Control	I	_
K8	0.35	TN / WH	1969	Headlamp High Beam Relay Control	I	_

X50A Fuse Block - Underhood X4



823321

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 15326952 Service Connector: 15306426

Description: 16-Way F 280 GT Series(BK)

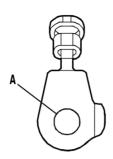
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
1	13575753	J-35616-4A (PU)	J-38125-215A	

X50A Fuse Block - Underhood X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	_	_	_	Not Occupied	_	_
В	0.5	GY / BN	2309	Front Park Lamp Control	I	_
С	0.5	GY / BN	2309	Front Park Lamp Control	I	_
D	0.75	D-BU / WH	1315	Right Front Turn Signal Lamp Control	I	_
Е	0.75	L-BU / WH	1314	Left Front Turn Signal Lamp Control		_
F	0.5 0.8	YE YE	712 712	Left Headlamp Low Beam Control Left Headlamp Low Beam Control		_
G-J	_	_	_	Not Occupied	_	_
K	0.5	YE	712	Left Headlamp Low Beam Control	I	_
L	_	_	_	Not Occupied	_	_
М	0.75	WH	311	Right Headlamp High Beam Control	I	_
N	0.75	WH	711	Left Headlamp High Beam Control		_
Р	0.75	YE	312	Right Headlamp Low Beam Control I —		_
R-S	_	_	_	Not Occupied	_	

X50A Fuse Block - Underhood X5





4831180

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 12160208

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

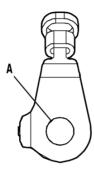
Terminal Part Information

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

X50A Fuse Block - Underhood X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	19	RD	1	Unfused Battery Positive Voltage	I	_

X50A Fuse Block - Underhood X6





4831192

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13595106

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

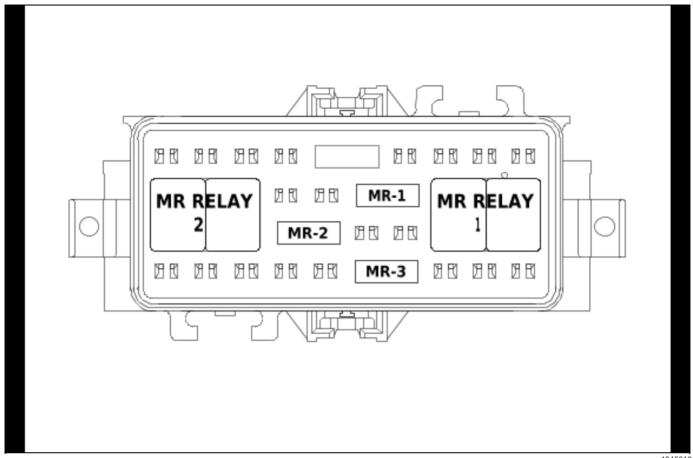
Terminal Part Information

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

X50A Fuse Block - Underhood X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	19	RD	842	Battery Positive Voltage		

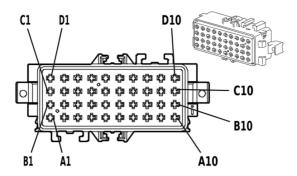
X50B Fuse Block - Underhood Auxiliary Top View



Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	MR-2	F1UB	30A	KR161A Configurable Provision Relay 1 (9L7)
F2	MR-1	F2UB	30A	KR161B Configurable Provision Relay 2 (9L7)
F3	MR-3	F3UB	10A	W25 Blunt Cut - Configurable Provision (9L7)
Relays	-			
R1	MR RELAY 1	KR90 Door Unlock Relay (WRF), KR161B Configu- rable Provision Re- lay 2 (9L7)	_	W25 Blunt Cut - Configurable Provision
R2	MR RELAY 2	KR97 Door Lock Relay (WRF), KR161A Configu- rable Provision Re- lay 1 (9L7)	_	W25 Blunt Cut - Configurable Provision

X50B Fuse Block - Underhood Auxiliary



2002692

Connector Part Information

Harness Type: Accessory Wiring Harness

OEM Connector: 13607200

Service Connector: Service by Harness - See Part Catalog Description: 40-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	

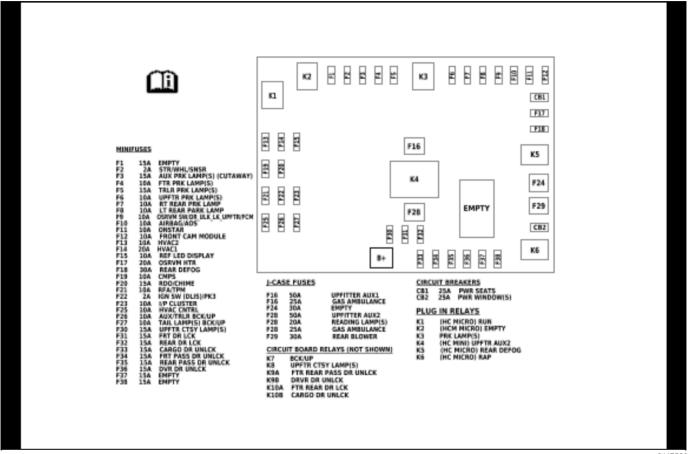
X50B Fuse Block - Underhood Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1 - A5		_		Not Occupied	_	_
A6	1	RD / BK	102	Battery Positive Voltage	I	_
A7	1	RD / WH	5440	Battery Positive Voltage	I	_
A8 - A10				Not Occupied	_	_
B1	2.5	RD / WH	5440	Battery Positive Voltage	I	_
B2	ı		1	Not Occupied	_	
В3	0.5	D-BU	6843	Auxiliary Device Relay 2 Control	I	
B4	2.5	RD / BK	102	Battery Positive Voltage	I	
B5	2.5	RD / WH	5440	Battery Positive Voltage	I	_
B6 - B7				Not Occupied	_	
B8	2.5	RD / WH	5440	Battery Positive Voltage	l	
B9				Not Occupied	_	
B10	0.5	L-BU	6842	Auxiliary Device Relay 1 Control	I	
C1	0.5	BK	1850	Ground	I	
C2				Not Occupied	_	
C3	2.5	L-GN	6840	Auxiliary Device 2 Switched Voltage	l	
C4 - C5				Not Occupied	_	
C6	2.5	RD / BK	102	Battery Positive Voltage	I	
C7	2.5	RD / WH	5440	Battery Positive Voltage	I	
C8	0.5	BK / WH	1551	Signal Ground		_
C9				Not Occupied —		
C10	2.5	L-GN	6839	Auxiliary Device 1 Switched Voltage	I	_

X50B Fuse Block - Underhood Auxiliary (cont'd)

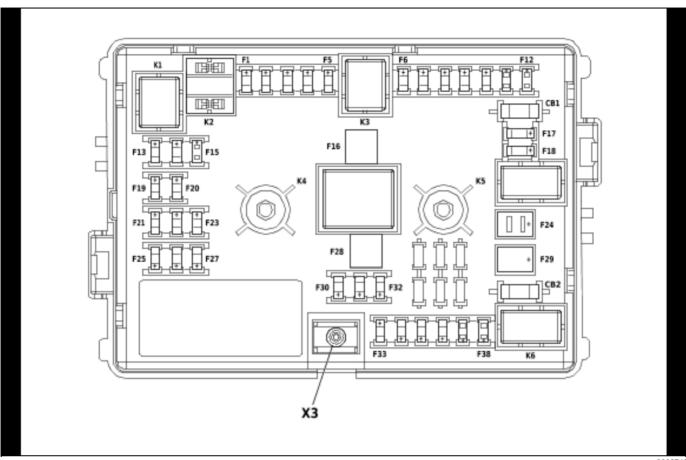
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
D1 - D10	_	_	_	Not Occupied		_

X52A Fuse Block - Passenger Compartment Label



6117509

X52A Fuse Block - Passenger Compartment Top View



Usage Table

			Usage la	
No.	Device Label Name	Device Assigned Name	Rating	Description
Mini Fuse	es			
F1	EMPTY	F1PA	15A	Not Used
F2	STR/WHL/SNSR	F2PA	2A	S70L Steering Wheel Controls Switch - Left (K34 or W1Y) S70R Steering Wheel Controls Switch - Right (W1Y)
F3	AUX PRK LAMP(S) (CUT- AWAY)	F3PA	15A	• X405 (Cutaway)
F4	FRT PRK LAMP(S)	F4PA	10A	 E2LF Side Marker Lamp - Left Front E2RF Side Marker Lamp - Right Front E4N Park/Turn Signal Lamp - Left E4P Park/Turn Signal Lamp - Right
F5	TRLR PRK LAMP(S)	F5PA	15A	X88 Trailer Connector (UY7)
F6	UPFTR PRK LAMP(S)	F6PA	10A	Not Used
F7	RT REAR PRK LAMP	F7PA	10A	E5T Tail/Stop and Turn Signal Lamp - Right (Cargo or Passenger)
F8	LT REAR PARK LAMP	F8PA	10A	E5S Tail/Stop and Turn Signal Lamp - Left (Cargo or Passenger) E7 License Plate Lamp (Cargo or Passenger)

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F9	OSRVM SW/ DR_ULK_L- K_UPFTR/FCM	F9PA	10A	B174W Frontview Camera - Windshield S52 Outside Rearview Mirror Switch (DEB or DE5)
F10	AIRBAG/AOS	F10PA	10A	K36 Inflatable Restraint Sensing and Diagnostic Module
F11	ONSTAR	F11PA	10A	K73 Telematics Communication Interface Control Module (UE1)
F12	FRONT CAM MODULE	F12PA	10A	Not Used
F13	HVAC2	F13PA	10A	 K33A HVAC Control Module - Auxiliary KR32B Blower Motor High Speed Relay - Auxiliary (C69/C36/ENC) KR32C Blower Motor Low Speed Relay - Auxiliary (C69/C36/ENC) KR32D Blower Motor Medium Speed Relay - Auxiliary (C69/C36/ENC) KR81 Auxiliary Battery Relay 1 (TP3) M6 Air Temperature Door Actuator M6B Air Temperature Door Actuator - Auxiliary (C69/C36/ENC) M37B Mode Door Actuator - Auxiliary (C69/C36/ENC) S34 HVAC Controls Switch Assembly (C49/DE5/C60) S34F HVAC Controls Switch Assembly - Auxiliary Front S34R HVAC Controls Switch Assembly - Auxiliary Rear (Rear HVAC Controls)
F14	HVAC1	F14PA	20A	S34 HVAC Controls Switch AssemblyX81 Accessory Power Receptacle - 110V AC (KI4)
F15	REF LED DIS- PLAY	F15PA	10A	P43 Collision Alert Indicators
F17	OSRVM HTR	F17PA	20A	A9A Outside Rearview Mirror - Driver (DEB or DE5) A9B Outside Rearview Mirror - Passenger (DEB or DE5)
F18	REAR DEFOG	F18PA	30A	E18L Rear Defogger Grid - Left (C49) E18R Rear Defogger Grid - Right (C49)
F19	CMPS	F19PA	10A	B176 Multi-axis Acceleration Sensor Module K18 Compass Module (U80)
F20	RDO/CHIME	F20PA	15A	A11 Radio (Without UL5) A12 Digital Radio Receiver Control Module (U2K)
F21	RFA/TPM	F21PA	10A	K77 Remote Control Door Lock Receiver (ATG or UJM)
F22	IGN SW (DLIS)/ PK3	F22PA	2A	K64 Content Theft Deterrent Control Module S39 Ignition Switch
F23	I/P CLUSTER	F23PA	10A	P16 Instrument Cluster
F25	HVAC CNTRL	F25PA	10A	S34 HVAC Controls Switch Assembly (C49 or DE5)
F26	AUX/TRLR BCK/ UP	F26PA	10A	P3 Backup Alarm (8S3) X88 Trailer Connector (-NE7) X405 (Cutaway) X450 (NE7)
F27	TAIL LAMP(S) BCK/UP	F27PA	10A	E5A Backup Lamp - Left (Cargo or Passenger) E5B Backup Lamp - Right (Cargo or Passenger)

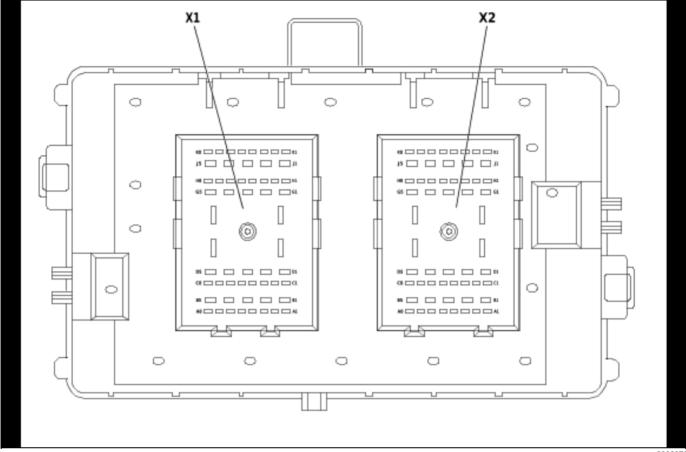
Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F30	UPFTR CTSY LAMP(S)	F30PA	15A	E36AC Dome Lamp - Left Roof Rail (Cargo) E36AD Dome Lamp - Right Roof Rail (Cargo) E36AH Dome Lamp (Cargo) E37F Dome/Reading Lamps - Front E37M Dome/Reading Lamps - Middle (Passenger) E37R Dome/Reading Lamps - Rear (Passenger) K9 Body Control Module X405
F31	FRT DR LCK	F31PA	15A	A23D Door Latch Assembly - Driver (AU3) A23P Door Latch Assembly - Passenger (AU3)
F32	REAR DR LCK	F32PA	15A	 M13 Door Latch Assembly - Rear Cargo (Passenger or Cargo with AU3) M14RR Door Lock Actuator - Right Rear (E24 or YA2) X87RB Sliding Door Jamb Contact Plate - Right Body (E24 or YA2)
F33	CARGO DR UNLCK	F33PA	15A	M13 Door Latch Assembly - Rear Cargo (Cargo or Passenger with AU3)
F34	FRT PASS DR UNLCK	F34PA	15A	A23P Door Latch Assembly - Passenger (AU3)
F35	REAR PASS DR UNLCK	F35PA	15A	KR90A Cargo Door Unlock Relay (AU3) M14RR Door Lock Actuator - Right Rear (AU3) X87RB Sliding Door Jamb Contact Plate - Right Body (AU3)
F36	DVR DR UNLCK	F36PA	15A	A23D Door Latch Assembly - Driver (AU3)
F37	EMPTY	F37PA	15A	Not Used
F38	EMPTY	F38PA	15A	Not Used
J-Case Fu	ses			
F16	UPFITTER AUX1	F16PA	50A	W12 Blunt Cut - Emergency Vehicle Provision (YF1) X289 (PRP)
F16	GAS AMBULANCE	F16PA	25A	Not Used
F24	EMPTY	F24PA	30A	Not Used
F28	UPFITTER AUX2	F28PA	50A	W12 Blunt Cut - Emergency Vehicle Provision (YF1)
F28	READING LAMP(S)	F28PA	20A	Not Used
F28	GAS AMBULANCE	F28PA	25A	Not Used
F29	REAR BLOWER	F29PA	30A	KR32B Blower Motor High Speed Relay - Auxiliary (C36/C69/ENC) KR32C Blower Motor Low Speed Relay - Auxiliary (C36/C69/ENC) KR32D Blower Motor Medium Speed Relay - Auxiliary (C36/C69/ENC)
Circuit Bre	eakers			
CB1	PWR SEATS	CB1PA	25A	S64D Seat Adjuster Switch - Driver (AG1) S64P Seat Adjuster Switch - Passenger (AG2)
CB2	PWR WINDOW(S)	CB2PA	25A	S79D Window Switch - Driver (A31) S79P Window Switch - Passenger (A31)

Usage Table (cont'd)

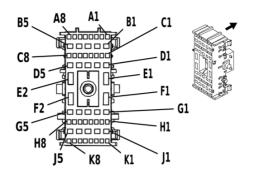
Davice Label Davice Assigned							
No.	Device Label Name	Device Assigned Name	Rating	Description			
Relays							
K1	RUN	KR74 Ignition Run Relay	ı	 F13PA F14PA F15PA F19PA KR77 Ignition Power Provision Relay 			
K2	EMPTY	KR150 Relay - Spare	_	Not Used			
К3	PRK LAMP(S)	KR53 Park Lamps Relay	-	 F3PA F4PA F5PA F6PA F7PA F8PA 			
K4	UPFTR AUX2	KR77 Ignition Power Provision Relay		• F28PA			
K5	REAR DEFOG	KR5 Rear Defog- ger Relay	_	• F17PA • F18PA			
K6	RAP	KR76 Retained Accessory Power Relay	ı	CB2PAF37PAF38PA			
Important:	Relays listed below	are non-serviceable	Printed Circui	t Board (PCB) relays and are internal to the block.			
K7	BCK/UP	KR40 Backup Lamp Relay	_	• F26PA • F27PA			
K8	UPFTR CTSY LAMP(S)	KR78 Courtesy Lamps Provision Relay	_	• F30PA			
K9A	FTR REAR PASS DR UNLCK	KR90P Passenger/ Cargo Door Unlock Relay	_	• F34PA • F35PA			
K9B	DRVR DR UNLCK	KR92D Driver Door Unlatch Relay		• F36PA			
K10A	FTR REAR DR LCK	KR97 Door Lock Relay	_	• F31PA • F32PA			
K10B	CARGO DR UNLCK	KR90A Cargo Door Unlock Relay	_	• F33PA			

X52A Fuse Block - Passenger Compartment Bottom View



2832070

X52A Fuse Block - Passenger Compartment X1



2083844

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15477823 Service Connector: 13574911

Description: 56-Way F 150, 280 GT Metri-Pack 800 Series (L-GY)

Terminal Part Information

Terminal Type ID Terminated Lead		Diagnostic Test Probe	Terminal Removal Tool
I	13575465	J-35616-44 (YE)	J-38125-558
II	13575735	J-35616-14 (GN)	J-38125-215A
III	13575753	J-35616-4A (PU)	J-38125-215A
IV	Not required	No Tool Required	No Tool Required

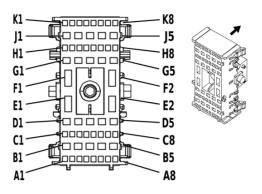
X52A Fuse Block - Passenger Compartment X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1 - A3	_	_	_	Not Occupied		_
A4	0.5	YE	6817	LED Backlight Dimming Control 1	II	_
A5	0.35	D-BU	45	Park Lamp Relay Control	II	_
A6	0.35	BN	6136	Control	II	_
A7 - A8	_	_	_	Not Occupied	_	_
B1	0.8	RD / WH	3240	Battery Positive Voltage	III	_
B2	1	BN	2109	Trailer Park Lamp Control	III	_
В3	0.35	BN	341	Run Ignition 3 Voltage	III	_
B4	0.75	GY / BN	2309	Front Park Lamp Control III		_
B5	1	BN	2109	Trailer Park Lamp Control	III	_
C1	1	YE	618	Left Rear Turn Signal Lamp Control	II	_
C2	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	II	_
C3	1	D-GN	619	Right Rear Turn Signal Lamp Control	II	_
C4	0.35	WH	193	Rear Defogger Relay Control	II	_
C5	0.35	BN	341	Run Ignition 3 Voltage	II	_
C6	_	_	_	Not Occupied —		_
C7	0.35	OG	300	Run Ignition 3 Voltage		_
C8 - D3	_	_	_	Not Occupied —		_
D4	0.5	VT / BK	1639	Run/Crank Ignition 1 Voltage III		_

X52A Fuse Block - Passenger Compartment X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
D5	0.5 1	D-BU BN	6807 141	DC/AC Inverter Control Run Ignition 3 Voltage	III	_ _
E1	_	RD / BK	1042	Battery Positive Voltage	IV	_
E2	0.8	BK	350	Ground	I	_
F1 - G2	_	_	_	Not Occupied	_	_
G3	0.8 0.5	D-BU / WH GY	1315 5861	Right Front Turn Signal Lamp Control Passenger Side Object Detection LED Signal 1	III III	DE5 UFT
G4	1	RD / WH	340	Battery Positive Voltage	III	_
G5	_	_	_	Not Occupied	_	_
H1	0.8 0.5	L-BU / WH GY / YE	1314 5853	Left Front Turn Signal Lamp Control Driver Side Side Object Detection LED Signal 1	II II	DE5 UFT
H2	0.8 1	D-BU / WH D-BU / WH	149 149	Courtesy Lamp Control Courtesy Lamp Control		_ _
H3	0.35	BK / WH	351	Signal Ground	II	_
H4	0.35	YE	43	Accessory Ignition Voltage	II	_
H5	0.8	RD / WH	4440	Battery Positive Voltage	II	_
H6	0.35	RD / WH	2840	Battery Positive Voltage	II	_
H7	0.35	RD / WH	540	Battery Positive Voltage	II	_
H8	0.5	RD / WH	5340	Battery Positive Voltage	II	_
J1 - J4	_	_	1	Not Occupied	_	_
J5	1	L-GN	1624	Trailer Backup Lamp Control	III	_
K1	_	_		Not Occupied	_	_
K2	0.5	YE	356	Driver Door Lock Relay Unlock Control	II	_
K3	0.5	L-BU	244	Passenger Door Lock Switch Lock Control	II	_
K4	0.5	L-BU	244	Passenger Door Lock Switch Lock Control	II	_
K5	0.5	YE	356	Driver Door Lock Relay Unlock Control	II	_
K6 - K7	_	_	_	Not Occupied	_	_
K8	0.35	D-BU	38	Backup Lamp Relay Control	II	_

X52A Fuse Block - Passenger Compartment X2



1581655

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 15477822 Service Connector: 19115189

Description: 56-Way F 150, 280 GT Metri-Pack 800 Series(BK)

Terminal Part Information

Terminal Type ID Terminated Lead		Diagnostic Test Probe	Terminal Removal Tool	
I	13575735	J-35616-14 (GN)	J-38125-215A	
II	13575756	J-35616-4A (PU)	J-38125-215A	
III	19367554	J-35616-44 (YE)	J-38125-558	
IV	Not required	No Tool Required	No Tool Required	

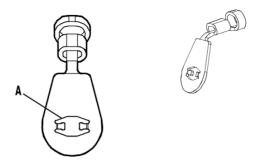
X52A Fuse Block - Passenger Compartment X2

Pin Size Color Circuit Function		Terminal Type ID	Option			
A1 - A2	_	_	_	Not Occupied	_	_
A3	0.5	RD / WH	3440	Battery Positive Voltage	I	_
A4	0.5	BN	2509	Left Rear Park Lamp Control	I	_
A5	0.5	BN	2609	Right Rear Park Lamp Control	I	_
A6	0.5 0.5	RD / WH RD / GN	4340 3140	Battery Positive Voltage Battery Positive Voltage	I I	DE5 UFL
A7 - A8	_	_	_	Not Occupied	_	_
B1	3	RD / WH	3540	Battery Positive Voltage	II	_
B2	3	RD / WH	3540	Battery Positive Voltage	II	_
В3	1	RD / WH	3240	Battery Positive Voltage	II	_
B4 - C1	_	_	_	Not Occupied	_	_
C2	1	RD / WH	3240	Battery Positive Voltage	I	_
C3	0.35	BN	341	Run Ignition 3 Voltage	I	_
C4	0.35	BN	341	Run Ignition 3 Voltage	I	_
C5	0.35	BN	341	Run Ignition 3 Voltage	I	_
C6	1	D-GN	619	Right Rear Turn Signal Lamp Control	I	_
C7	1	YE	618	Left Rear Turn Signal Lamp Control		_
C8	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control		_
D1	5	PU	293	Rear Defogger Grid Control II		_

X52A Fuse Block - Passenger Compartment X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
D2	5	PU	293	Rear Defogger Grid Control	II	_
D3	0.8	OG	2267	Outside Rearview Mirror Heater Control	II	_
D4	0.8	OG	2267	Outside Rearview Mirror Heater Control	II	_
D5 - E1	_	_	_	Not Occupied	_	_
E2	5	RD / BK	1042	Battery Positive Voltage	III	_
F1	5	RD / WH	1740	Battery Positive Voltage	III	_
F2	5	BN	541	Run Ignition 3 Voltage	III	_
G1	3	D-GN	1001	Retained Accessory Power Ignition Voltage	II	_
G2	3	D-GN	1001	Retained Accessory Power Ignition Voltage	II	_
G3	_	_	_	Not Occupied	_	_
G4	1	GY	295	Door Lock Actuator Lock Control	II	_
G5	1	GY	295	Door Lock Actuator Lock Control	II	_
H1	_	_	_	Not Occupied	_	_
H2	0.5	BK / BN	6045	Steering Angle Sensor Low Reference	I	_
H3	0.35	BK / WH	351	Signal Ground	ı	_
H4	_	_	_	Not Occupied	_	_
H5	0.5 0.5	GY D-BU / WH	5861 1315	Passenger Side Object Detection LED Signal 1 Right Front Turn Signal Lamp Control	IV I	UFT - UFT
H6	0.5 0.5	GY / YE L-BU / WH	5853 1314	Driver Side Side Object Detection LED Signal 1 Left Front Turn Signal Lamp Control	IV I	UFT - UFT
H7	0.5	D-BU / WH	149	Courtesy Lamp Control	I	_
H8	0.8 1	D-BU / WH D-BU / WH	149 149	Courtesy Lamp Control Courtesy Lamp Control	l I	CARGO PASSENGER
J1	0.8	TN	694	Driver Door Lock Actuator Unlock Control	II	
J2	1	TN	294	Door Lock Actuator Unlock Control	II	
J3	0.8	TN	294	Door Lock Actuator Unlock Control	II	
J4	0.8	TN	294	Door Lock Actuator Unlock Control	II	_
J5	0.8	GY	295	Door Lock Actuator Lock Control	II	
K1 - K2	_	_	_	Not Occupied	_	_
K3	1	TN / BK	1095	Right Rear Door Lock Actuator Unlock Control	I	
K4 - K6	_		_	Not Occupied		
K7	1	TN	294	Door Lock Actuator Unlock Control	I	_
K8	1	L-GN	24	Backup Lamp Control	I	<u> </u>

X52A Fuse Block - Passenger Compartment X3



4831037

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12160241

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

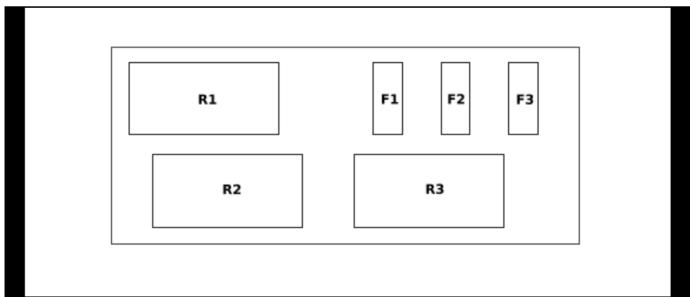
Terminal Part Information

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

X52A Fuse Block - Passenger Compartment X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	19	RD	842	Battery Positive Voltage	Ī	_

X53A Fuse Block - Rear Body Top View (PRP)



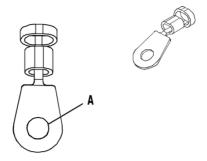
3988749

6-44 Electrical Component and Inline Harness Connector End Views

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	DOME FLUORES- CENT WORK LAMPS	F1RA	10A	E21A Fluorescent Work Lamp - Right Access Panel E21F Fluorescent Work Lamp - Front Cargo E21LF Fluorescent Work Lamp - Left Front Access Panel E21R Fluorescent Work Lamp - Rear Cargo E21LR Fluorescent Work Lamp - Left Rear Access Panel
F2	PANEL ACTUA- TOR	F2RA	15A	KR89LF Left Front Access Panel Relay KR89LR Left Rear Access Panel Relay KR89RR Right Rear Access Panel Relay
F3	SPARE	F3RA —		Not Used
Relays				
R1	LEFT REAR AC- CESS PANEL RE- LAY	KR89LR Left Rear Access Panel Re- lay	_	M2C Access Panel Unlatch Actuator - Left Rear Side Front M2D Access Panel Unlatch Actuator - Left Rear Side Rear
R2	LEFT FRONT AC- CESS PANEL RE- LAY	KR89LF Left Front Access Panel Re- lay	_	M2A Access Panel Unlatch Actuator - Left Front Side Front M2B Access Panel Unlatch Actuator - Left Front Side Rear
R3	RIGHT REAR AC- CESS PANEL RE- LAY	KR89RR Right Rear Access Panel Relay	_	M2E Access Panel Unlatch Actuator - Right Side Front M2F Access Panel Unlatch Actuator - Right Side Rear

X55U Fuse Holder - Starter X1 (L8T)



4329341

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 15491241

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

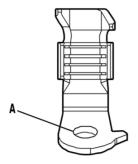
Terminal Part Information

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

X55U Fuse Holder - Starter X1 (L8T)

Pin	Size Color Circuit Function		Terminal	Option		
	JIZE	33101	Oncuit	i dilotion	Type ID	Option
Α	32	RD	1	Unfused Battery Positive Voltage	Ι	_

X55U Fuse Holder - Starter X1 (LV1)





4937583

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 35116268

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

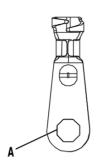
Terminal Part Information

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

X55U Fuse Holder - Starter X1 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	32	RD	1	Unfused Battery Positive Voltage	_	

X55U Fuse Holder - Starter X2 (LV1)





3214043

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 33257772

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

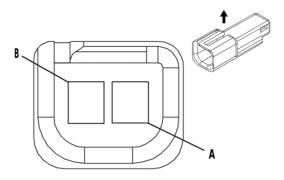
Terminal Part Information

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

X55U Fuse Holder - Starter X2 (LV1)

Р	Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
,	A	25	RD	1	Unfused Battery Positive Voltage	I	_

Component Connector End Views A3L Sunshade - Left



35441

Connector Part Information

Harness Type: Headliner OEM Connector: 12047663

Service Connector: Service by Harness - See Part Catalog Description: 2-Way M 150 Metri-Pack Series(BK)

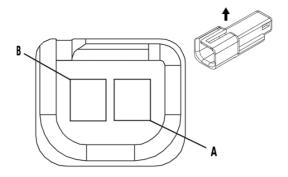
Terminal Part Information

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

A3L Sunshade - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α		OG	1732	Control Module 12V Reference 3	1	_
В	_	BK	1850	Ground	Ī	_

A3R Sunshade - Right



35441

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 12047663 Service Connector: 13584278

Description: 2-Way M 150 Metri-Pack Series(BK)

Terminal Part Information

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

A3R Sunshade - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	G	1732	Control Module 12V Reference 3	_	_
В	0.5	BK	1850	Ground	Ī	_

A7 Fuel Pump and Level Sensor Assembly

Connector Part Information

Harness Type: Fuel Tank Wiring Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F

Terminal Part Information

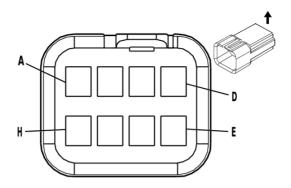
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	No Tool Required	No Tool Required	

A7 Fuel Pump and Level Sensor Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	GY	120	Fuel Pump Control	I	_
2	_	YE / GY	4137	Fuel Pump Supply Voltage Phase 2	I	_
3	_	WH / BN	4138	Fuel Pump Supply Voltage Phase 3	I	_
4	_	BK / GN	6281	Fuel Level Sensor Low Reference	I	_
5	_	D-BU / VT	1589	Primary Fuel Level Sensor Signal	I	_

2023 - Express, Savana Electrical Body Builder Manual

A9A Outside Rearview Mirror - Driver



62434

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Driver

OEM Connector: 12065396

Service Connector: Service by Harness - See Part Catalog Description: 8-Way M 150 Metri-Pack Series(NA)

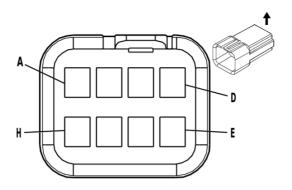
Terminal Part Information

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

A9A Outside Rearview Mirror - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.8	BK	450	Ground	I	_
В	0.5	GY / YE	5853	Driver Side Side Object Detection LED Signal 1	I	UFT
С	8.0	OG	2267	Outside Rearview Mirror Heater Control	I	_
D	0.5	BK	450	Ground	I	_
Е	0.35	YE	88	Left Outside Rearview Mirror Motor Up Control	I	_
F	0.35	L-GN	89	Left Outside Rearview Mirror Motor Down Control	I	
G	0.35	WH	81	Left Outside Rearview Mirror Motor Right Control	I	_
Н	0.35	YE	88	Left Outside Rearview Mirror Motor Up Control	Ī	_

A9B Outside Rearview Mirror - Passenger



62434

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Passenger

OEM Connector: 12162427

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way M 150 Metri-Pack Series(NA)

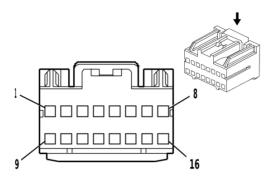
Terminal Part Information

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

A9B Outside Rearview Mirror - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.8	BK	1850	Ground	I	
В	— 0.5	D-BU / WH GY	1315 5861	Right Front Turn Signal Lamp Control Passenger Side Object Detection LED Signal 1	II I	— UFT
С	0.8	OG	2267	Outside Rearview Mirror Heater Control	I	_
D	0.5	BK	1850	Ground	- 1	
E	0.35	BN / WH	1498	Right Outside Rearview Mirror Motor Up Control	1	
F	0.35	PU / WH	889	Right Outside Rearview Mirror Motor Down Control	I	_
G	0.35	OG / WH	881	Right Outside Rearview Mirror Motor Right Control	I	_
Н	0.35	BN / WH	1498	Right Outside Rearview Mirror Motor Up Control	I	_

A10 Inside Rearview Mirror (-UEU/UFL)



1711009

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 15441350 Service Connector: 15306351

Description: 16-Way F 100A Micro-Pack Series(BK)

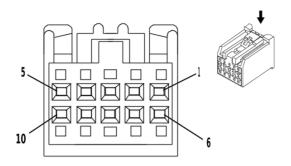
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	13575546	J-35616-16 (L-GN)	J-38125-559	

A10 Inside Rearview Mirror (-UEU/UFL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 5	_	_	_	Not Occupied	_	_
6	0.5	WH	7641	Frontview Camera 2 Signal [+]	I	- UEU
7	0.5	L-BU	7642	Frontview Camera 2 Signal [-]	I	- UEU/ UFL
8	0.35	BK / WH	351	Signal Ground	I	U80
O	0.5	BK / WH	351	Signal Ground	I	- U80
9	0.5	L-GN	24	Backup Lamp Control		_
10 - 12	_	_	_	Not Occupied	_	_
13	0.5	PK	239	Run/Crank Ignition 1 Voltage	Ī	- UEU/ UFL
14 - 16	_	_	_	Not Occupied	_	_

A10 Inside Rearview Mirror (UEU/UFL)



2180211

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 13815336 Service Connector: 13577390

Description: 10-Way F 0.64 Kaizen Series(BK)

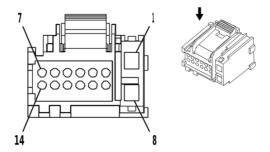
Terminal Part Information

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 (UEU/UFL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN / WH	24	Backup Lamp Control	I	_
2	0.5	VT / WH	239	Run/Crank Ignition 1 Voltage	I	UEU/ UFL
3 - 4	_	_	_	Not Occupied	_	_
5	0.5	BK / WH	351	Signal Ground		_
6	0.5	D-BU	7641	Frontview Camera 2 Signal [+]	I	_
7	0.5	WH	7642	Frontview Camera 2 Signal [-]	Ī	_
8 - 10	_	_	_	Not Occupied	_	_

A11 Radio X1



2684742

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13545675 Service Connector: 13580448

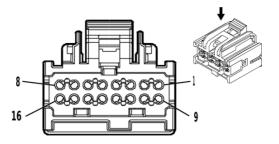
Description: 14-Way F 0.64 Micro-Pack, 150 GT Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	13575735	J-35616-14 (GN)	J-38125-215A	

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	RD / WH	340	Battery Positive Voltage	I	_
2	0.8	D-BU	1857	Left Front Midrange Speaker [+] Control	I	_
3	0.8	OG	1853	Right Front Midrange Speaker [+] Control	I	_
4 - 6	_	_	_	Not Occupied	_	_
7	0.35	YE	6817	LED Backlight Dimming Control 1	I	_
8	1	BK / WH	351	Signal Ground	I	_
9	0.8	L-BU	1957	Left Front Midrange Speaker [-] Control	I	_
10	0.8	D-GN	1953	Right Front Midrange Speaker [-] Control	I	_
11 - 12	_	_	_	Not Occupied	_	_
13	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	_
14	_	_	_	Not Occupied	_	_

A11 Radio X2



2127936

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13567860 Service Connector: 13504130

Description: 16-Way F 64 Micro-Series(PU)

Terminal Part Information

Terminal Type	ID Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	13579976	J-35616-64B (L-BU)	J-38125-21	

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN / WH	367	Secondary Radio Receiver Left Audio Signal	I	_
2	0.35	D-GN / WH	368	Secondary Radio Receiver Right Audio Signal 1	I	_
3 - 4	_	_	_	Not Occupied	_	_
5	0.8	TN	1859	Left Rear Midrange Speaker [+] Control	I	_
6	0.8	TN	1855	Right Rear Midrange Speaker [+] Control	I	_
7	0.8	D-BU	658	Cellular Telephone Voice Signal	I	_
8	_	_	_	Not Occupied	_	_
9	0.35	TN / WH	372	Secondary Radio Receiver Audio [-] Control	I	_
10	0.35	GY	388	Secondary Radio Receiver Right Audio Signal 2	I	_
11 - 12	_	_	_	Not Occupied	_	_
13	0.8	WH	1959	Left Rear Midrange Speaker [-] Control	I	_
14	0.8	OG	1955	Right Rear Midrange Speaker [-] Control	I	_
15	0.8	L-BU / BK	659	Cellular Telephone Voice Low Reference	I	_
16	_	_	_	Not Occupied	_	_

A11 Radio X3





3264028

Connector Part Information

Harness Type: Instrument Panel Wiring Harness COAX

OEM Connector: 13514585

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way F Snap Lock Coax Type(BK)

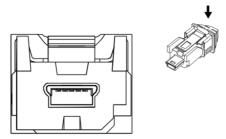
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
_	_	Coax Ca- ble	_	(AM/FM) Antenna RF Signal	I	_

6-58

A11 Radio X6



2791449

Connector Part Information

Harness Type: Instrument Panel Wiring Harness USB

OEM Connector: 13668059

Service Connector: Service by Cable Assembly — See Part Catalog

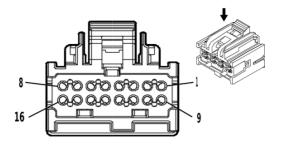
Description: 5-Way M 2.0 Mini-B USB Type(BK)

Terminal Part Information

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

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

A12 Digital Radio Receiver Control Module X1



2127936

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13568238 Service Connector: 13504130

Description: 16-Way F 64 Micro-Series(BK)

Terminal Part Information

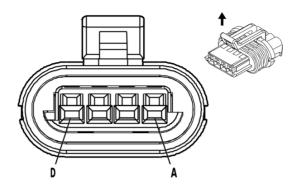
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	13579976	J-35616-64B (L-BU)	J-38125-21	

A12 Digital Radio Receiver Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	TN / WH	372	Secondary Radio Receiver Audio [-] Control	I	_
2	0.35	BN / WH	367	Secondary Radio Receiver Left Audio Signal	I	_
3	0.35	D-GN / WH	368	Secondary Radio Receiver Right Audio Signal 1	I	_
4	0.35	GY	388	Secondary Radio Receiver Right Audio Signal 2	I	_
5	0.5	D-GN	5060	Low Speed GMLAN Serial Data	I	_
6 - 8	_	_	_	Not Occupied	_	_
9	0.8	BK / WH	351	Signal Ground	I	_
10	_	_	_	Not Occupied	_	_
11	0.35	Bare	1573	Front Audio Low Reference	I	_
12 - 15		_		Not Occupied	_	_
16	0.8	RD / WH	340	Battery Positive Voltage	I	_

6-60

A23D Door Latch Assembly - Driver X1



684948

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Driver

OEM Connector: 15354716

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 150 GT Series, Sealed(BK)

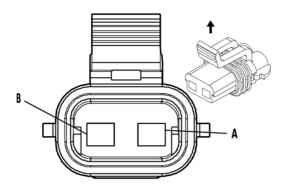
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	Not required J-35616-14 (GN)		

A23D Door Latch Assembly - Driver X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.35	TN	126	Left Front Door Open Switch Signal	1	_
В	0.35	GY / BK	745	Left Front Door Ajar Switch Signal	1	_
С	_	_	_	Not Occupied	_	_
D	0.35	BK	450	Ground	Ι	_

A23D Door Latch Assembly - Driver X2



68721

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Driver

OEM Connector: 15300027

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

Terminal Part Information

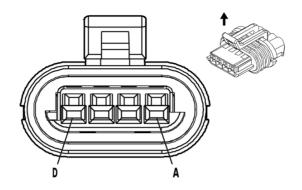
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-4A (PU)	No Tool Required	

A23D Door Latch Assembly - Driver X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	TN	694	Driver Door Lock Actuator Unlock Control I		_
В	0.8	GY	295	Door Lock Actuator Lock Control	I	_

6-62

A23P Door Latch Assembly - Passenger X1



684948

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Passenger

OEM Connector: 15354716

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 150 GT Series, Sealed(BK)

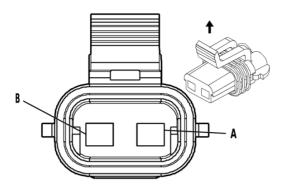
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	Not required J-35616-14 (GN)		

A23P Door Latch Assembly - Passenger X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.35	BK	1850	Ground	I	_
В	_		_	Not Occupied	_	_
С	0.35	TN / WH	746	Right Front Door Ajar Switch Signal	I	_
D	0.35	L-GN	1177	Right Front Door Open Switch Signal	I	_

A23P Door Latch Assembly - Passenger X2



68721

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Passenger

OEM Connector: 15300027

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

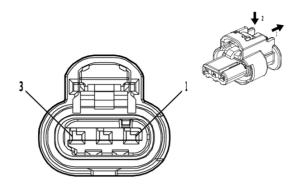
Terminal Part Information

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

A23P Door Latch Assembly - Passenger X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	TN	294	Door Lock Actuator Unlock Control	_	_
В	0.8	GY	295	Door Lock Actuator Lock Control		_

B1 A/C Refrigerant Pressure Sensor



4581126

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 33358800 Service Connector: 86792094

Description: 3-Way F 1.2 MCON-CB Series, Sealed(BK)

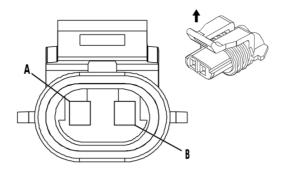
Terminal Part Information

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

B1 A/C Refrigerant Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU / RD	460	Engine Control Sensors 5 Volt Reference 1	Ι	
2	0.5	L-GN	380	A/C Refrigerant Pressure Sensor Signal	I	_
3	0.5	BK / GY	626	Engine Control Vehicle Sensors Low Reference	Ι	_

B1B A/C Low Side Pressure Switch



537107

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 12052644 Service Connector: 19368034

Description: 2-Way F 150 Metri-Pack Series, Sealed(GY)

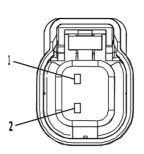
Terminal Part Information

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

B1B A/C Low Side Pressure Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	BN	66	A/C Request Signal		_
В	0.5	BN / WH	66	A/C Request Signal	I	_

B5LF Wheel Speed Sensor - Left Front





2792100

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 13828712

6-66

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

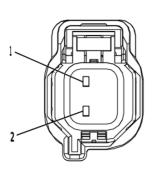
Terminal Part Information

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

B5LF Wheel Speed Sensor - Left Front

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

B5LR Wheel Speed Sensor - Left Rear (-R04)





3651383

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 15540141

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(L-GY)

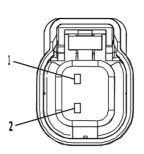
Terminal Part Information

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

B5LR Wheel Speed Sensor - Left Rear (-R04)

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

B5LR Wheel Speed Sensor - Left Rear (R04)





2792100

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 13828712

6-68

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

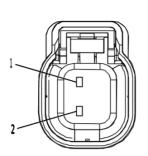
Terminal Part Information

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

B5LR Wheel Speed Sensor - Left Rear (R04)

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

B5RF Wheel Speed Sensor - Right Front





2792100

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 13828712

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

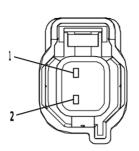
Terminal Part Information

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

B5RF Wheel Speed Sensor - Right Front

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

B5RR Wheel Speed Sensor - Right Rear (-R04)





2900396

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 15503634

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(L-GY)

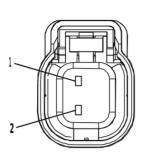
Terminal Part Information

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

B5RR Wheel Speed Sensor - Right Rear (-R04)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_		_	Not Occupied		_
2	0.5	VT	882	Right Rear Wheel Speed Sensor Signal	I	_

B5RR Wheel Speed Sensor - Right Rear (R04)





2792100

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 13828712

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

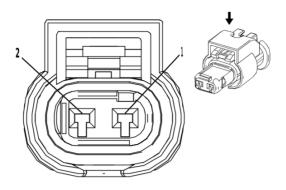
Terminal Part Information

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

B5RR Wheel Speed Sensor - Right Rear (R04)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	_	_	Not Occupied	_	_
2	0.5	VT	882	Right Rear Wheel Speed Sensor Signal		_

B9 Ambient Air Temperature Sensor (LV1/L8T)



2474752

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 13586143 Service Connector: Not Available

Description: 2-Way F 1.2 MCON Series, Sealed(BK)

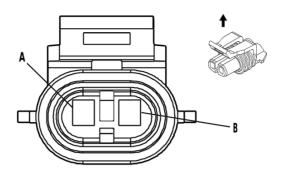
Terminal Part Information

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

B9 Ambient Air Temperature Sensor (LV1/L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1		BU / GY	636	Ambient Air Temperature Sensor Signal		_
2	_	BK / GN	580	Engine Control Sensors Low Reference 2	I	_

B9 Ambient Air Temperature Sensor (UFA)



684793

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 12052642 Service Connector: 12101856

Description: 2-Way F 150 Metri-Pack Series, Sealed(L-GN)

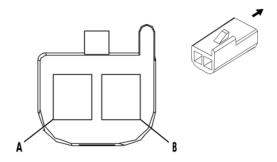
Terminal Part Information

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

B9 Ambient Air Temperature Sensor (UFA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.5	D-BU / GY	636	Ambient Air Temperature Sensor Signal	_	_
В	0.5	BK / D- BU	61	Ambient Air Temperature Sensor Low Reference	Ι	_

B10 Ambient Light Sensor



82383

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12047662 Service Connector: 12085535

Description: 2-Way F 150 Metri-Pack Series(BK)

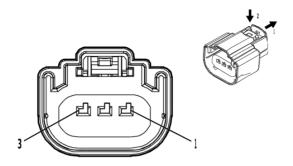
Terminal Part Information

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

B10 Ambient Light Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.35	WH	278	Ambient Light Sensor Signal	_	_
В	0.35	BK / WH	351	Signal Ground	Ī	_

B18 Battery Current Sensor



4569745

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 33343869 Service Connector: 19179750

Description: 3-Way F 1.5 MX Series, Sealed(BK)

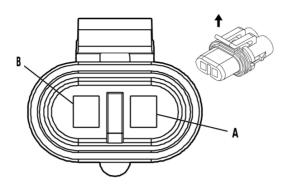
Terminal Part Information

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

B18 Battery Current Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU / VT	5076	Current Sensor Voltage Reference	Ι	
2	0.5	BK / VT	5077	Current Sensor Low Reference	I	_
3	0.5	WH / YE	5075	Current Sensor Signal	Ι	

B19A Brake Booster Fluid Pressure Alarm Switch



646148

Connector Part Information

Harness Type: Brake Fluid Level Indicator Wiring Harness

OEM Connector: 12020599

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

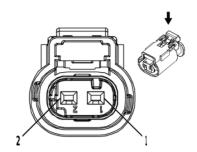
Terminal Part Information

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

B19A Brake Booster Fluid Pressure Alarm Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	TN / WH	33	Brake Warning Indicator Control	1	_
В	0.5	L-BU / BK	1928	Brake Booster Fluid Flow Alarm Switch Signal	Ι	_

B20 Brake Fluid Level Switch



2717066

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13735326 Service Connector: 13587326

Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

Terminal Part Information

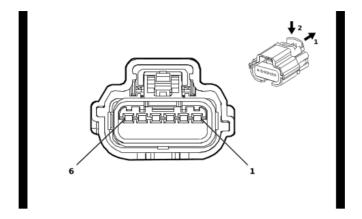
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-12 (BU)	No Tool Required	

B20 Brake Fluid Level Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK / WH	1551	Signal Ground	_	_
2	0.75	L-GN / GY	333	Brake Fluid Level Signal	1	_

6-78

B22 Brake Pedal Position Sensor



4773396

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 35199160 Service Connector: 84683650

Description: 6-Way F 64 Series, Sealed(NA)

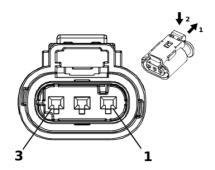
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
1	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	0.5	BN / WH	5382	Brake Position Sensor Low Reference	I	_
2	0.5	GY	5381	Brake Position Sensor 5V Reference	I	_
3	0.5	TN	5380	Brake Position Sensor Signal	I	_
4	0.5	YE	5361	Brake Apply Sensor Signal	I	_
5	0.5	BN	5360	Brake Apply Sensor Low Reference	I	_
6	0.5	WH	5359	Brake Apply Sensor Control	I	_

B23 Camshaft Position Sensor



2717069

Connector Part Information

Harness Type: Camshaft Position Sensor Jumper Wiring Harness

OEM Connector: 13503570

Service Connector: Service by Harness - See Part Catalog Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

Terminal Part Information

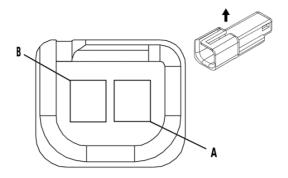
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	No Tool Required	No Tool Required	

B23 Camshaft Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1		GY / D- BU	5300	Intake Camshaft Position Sensor 1 Voltage Reference	Ι	
2	_	BK / L- GN	5301	Intake Camshaft Position Sensor Low Reference	I	_
3	_	YE / VT	5275	Intake Camshaft Position Sensor 1	I	_

6-80

B24 Mobile Telephone Microphone



35441

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 12047663 Service Connector: 13584278

Description: 2-Way M 150 Metri-Pack Series(BK)

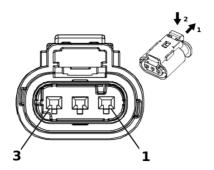
Terminal Part Information

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

B24 Mobile Telephone Microphone

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	D-GN	654	Cellular Telephone Microphone Low Reference	_	_
В	0.8	GY	655	Cellular Telephone Microphone Signal	Ī	_

B26 Crankshaft Position Sensor



2717069

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13763990 Service Connector: 84601390

Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

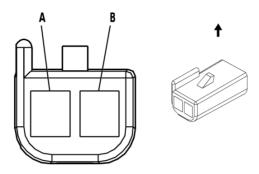
Terminal Part Information

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

B26 Crankshaft Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	6271	Crankshaft Position Sensor Signal	I	_
2	0.5	BK / VT	6272	Crankshaft Position Sensor Low Reference	I	_
3	0.5	VT / D- BU	6270	Crankshaft Position Sensor Voltage	_	_

B28F Door Ajar Switch - Right Sliding



35451

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12059251 Service Connector: 12101848

Description: 2-Way F 150 Metri-Pack Series(RD)

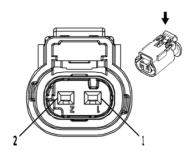
Terminal Part Information

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

B28F Door Ajar Switch - Right Sliding

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.35	BK	1850	Ground	Ι	_
В	0.35	YE / BK	1181	Right Rear Door Open Switch Signal	I	_

B34 Engine Coolant Temperature Sensor (L8T)



2717066

Connector Part Information

Harness Type: Engine Coolant Temperature Sensor Wiring Harness

OEM Connector: 13503566

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

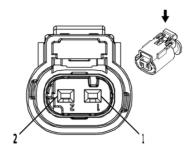
Terminal Part Information

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

B34 Engine Coolant Temperature Sensor (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1		D-BU	410	Engine Coolant Temperature Sensor Signal		_
2	_	BK / YE	548	Engine Control Sensors Low Reference 1	I	_

B34 Engine Coolant Temperature Sensor (LV1)



2717066

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13735326 Service Connector: 13587326

Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

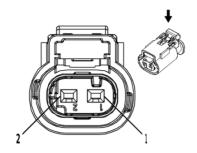
Terminal Part Information

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

B34 Engine Coolant Temperature Sensor (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU	410	Engine Coolant Temperature Sensor Signal		_
2	0.5	BK / YE	548	Engine Control Sensors Low Reference 1	I	_

B35 Engine Oil Level Switch (L8T)



2717066

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13735326 Service Connector: 13587326

Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

Terminal Part Information

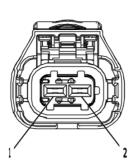
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-12 (BU)	No Tool Required	

B35 Engine Oil Level Switch (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN / L- GN	1174	Oil Level Switch Signal	_	_
2	0.75	BK / WH	1551	Signal Ground	I	_

6-86

B35 Engine Oil Level Switch (LV1)





2577394

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13930085 Service Connector: 13384371

Description: 2-Way F 2.8 Series, Sealed(BK)

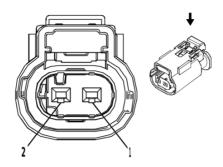
Terminal Part Information

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

B35 Engine Oil Level Switch (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN / L- GN	1174	Oil Level Switch Signal	_	_
2	0.75	BK / WH	1551	Signal Ground	I	_

B36 Engine Oil Temperature Sensor



2830969

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13840071 Service Connector: 13587321

Description: 2-Way F 1.2 Multilock Series, Sealed(D-GY)

Terminal Part Information

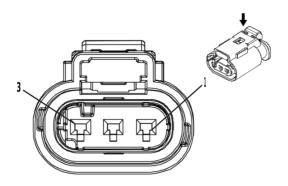
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	Not required	J-35616-12 (BU)	No Tool Required		

B36 Engine Oil Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN / D- BU	357	Oil Temperature Sensor Signal	_	_
2	0.5	BK / YE	548	Engine Control Sensors Low Reference 1	I	_

B37B Engine Oil Pressure Sensor

6-88



3240107

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13889776 Service Connector: 19301717

Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

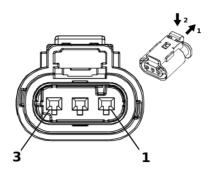
Terminal Part Information

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

B37B Engine Oil Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE / BN	331	Oil Pressure Sensor Signal	I	_
2	0.5	BK / YE	548	Engine Control Sensors Low Reference 1	I	_
3	0.5	WH / RD	480	Engine Control Vehicle Sensors 5 Volt Reference 1	I	

B47 Fuel Pressure Sensor (-Cutaway Chassis)



2717069

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 13763990

Service Connector: Service by Harness - See Part Catalog Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

Terminal Part Information

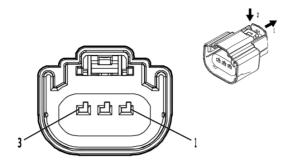
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-12 (BU)	No Tool Required	

B47 Fuel Pressure Sensor (-Cutaway Chassis)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN / RD	7445	Fuel Line Pressure Sensor 5V Reference	I	_
2	0.5	BK / YE	7447	Fuel Pressure Sensor Low Reference	I	_
3	0.5	D-BU / WH	7446	Fuel Pressure Sensor Signal	I	_

6-90

B47 Fuel Pressure Sensor (Cutaway Chassis)



4569745

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 33343869

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 1.5 MX Series, Sealed(BK)

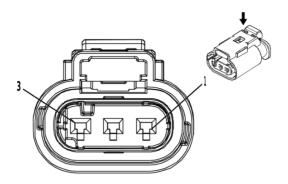
Terminal Part Information

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

B47 Fuel Pressure Sensor (Cutaway Chassis)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU / WH	7446	Fuel Pressure Sensor Signal	Ι	
2	0.5	BK / YE	7447	Fuel Pressure Sensor Low Reference	I	_
3	0.5	BN / RD	7445	Fuel Line Pressure Sensor 5V Reference	Ι	

B47B Fuel Rail Pressure Sensor



3240107

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

OEM Connector: 10010344

Service Connector: Service by Harness - See Part Catalog Description: 3-Way F 1.2 Multilock Series, Sealed(BK)

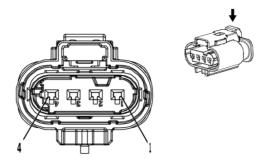
Terminal Part Information

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

B47B Fuel Rail Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1		BK / YE	548	Engine Control Sensors Low Reference 1		_
2		D-BU / WH	2918	Fuel Rail Pressure Sensor Signal	1	_
3	_	WH / RD	480	Engine Control Vehicle Sensors 5 Volt Reference 1	I	_

B52C Heated Oxygen Sensor - Bank 1 Sensor 1



4381050

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 33253021 Service Connector: 19354075

Description: 4-Way F 1.2 Multilock Series, Sealed(BK)

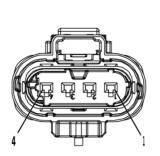
Terminal Part Information

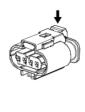
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-12 (BU)	No Tool Required	

B52C Heated Oxygen Sensor - Bank 1 Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY / WH	3113	HO2S Heater Low Control Bank 1 Sensor 1		_
2	0.5	VT / D- BU	5293	Powertrain Main Relay Fused Supply Voltage 4	-	_
3	0.5	WH / BK	3111	HO2S Low Signal Bank 1 Sensor 1	I	_
4	0.5	VT / GY	3110	HO2S High Signal Bank 1 Sensor 1	I	_

B52D Heated Oxygen Sensor - Bank 1 Sensor 2





4036370

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 15532690 Service Connector: 19330920

Description: 4-Way F 1.2 Multilock Series, Sealed(GY)

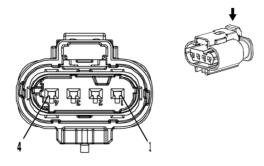
Terminal Part Information

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

B52D Heated Oxygen Sensor - Bank 1 Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY / WH	3122	HO2S Heater Low Control Bank 1 Sensor 2	_	_
2	0.5	VT / D- BU	5291	Powertrain Main Relay Fused Supply Voltage 2	_	_
3	0.5	WH / YE	3121	HO2S Low Signal Bank 1 Sensor 2		_
4	0.5	VT / D- BU	3120	HO2S High Signal Bank 1 Sensor 2	I	_

B52E Heated Oxygen Sensor - Bank 2 Sensor 1



4381050

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 33253021 Service Connector: 19354075

Description: 4-Way F 1.2 Multilock Series, Sealed(BK)

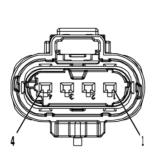
Terminal Part Information

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

B52E Heated Oxygen Sensor - Bank 2 Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN / YE	3212	HO2S Heater Low Control Bank 2 Sensor 1	_	_
2	0.5	VT / D- BU	5293	Powertrain Main Relay Fused Supply Voltage 4	_	_
3	0.5	YE / WH	3211	HO2S Low Signal Bank 2 Sensor 1	I	_
4	0.5	VT / WH	3210	HO2S High Signal Bank 2 Sensor 1	Ι	_

B52F Heated Oxygen Sensor - Bank 2 Sensor 2





4036370

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 15532690 Service Connector: 19330920

Description: 4-Way F 1.2 Multilock Series, Sealed(GY)

Terminal Part Information

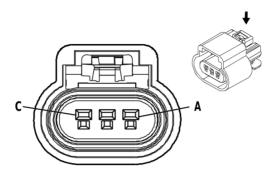
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-12 (BU)	No Tool Required	

B52F Heated Oxygen Sensor - Bank 2 Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH / BN	3223	HO2S Heater Low Control Bank 2 Sensor 2	I	_
2	0.5	VT / D- BU	5291	Powertrain Main Relay Fused Supply Voltage 2	-	
3	0.5	YE / D- BU	3221	HO2S Low Signal Bank 2 Sensor 2	I	_
4	0.5	VT / L- GN	3220	HO2S High Signal Bank 2 Sensor 2	I	_

B55 Engine Hood Switch

6-96



646415

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 13519047 Service Connector: 19368886

Description: 3-Way F 150 GT Series, Sealed(BK)

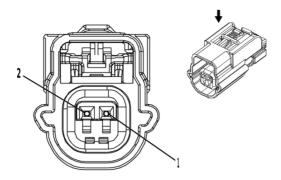
Terminal Part Information

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

B55 Engine Hood Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	BN / GN	109	Hood Ajar Switch Signal	I	_
В	0.5	PU / BN	5531	Hood Closed Switch Signal	Ι	_
С	0.5	BK	250	Ground	I	_

B59 Front Impact Sensor



3556418

Connector Part Information

Harness Type: Air Bag Jumper Wiring Harness

OEM Connector: 13593078

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 Series, Sealed(GY)

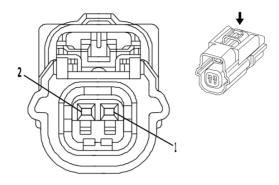
Terminal Part Information

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

B59 Front Impact Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN / WH	6618	Front Middle Impact Discriminating Sensor Signal	I	_
2	0.5	D-BU / WH	6619	Front Middle Impact Discriminating Sensor Low Reference	I	_

B63LF Side Impact Sensor - Left Front



1664592

Connector Part Information

Harness Type: Airbag Wiring Harness

OEM Connector: 13528494

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 0.64 Kaizen Series, Sealed(BK)

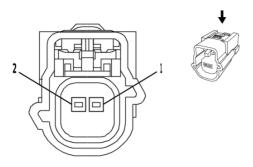
Terminal Part Information

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

B63LF Side Impact Sensor - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	2132	Left Front Side Impact Sensor Signal	_	_
2	0.5	PU / WH	6628	Left Front Side Impact Sensor Low Reference	Ī	_

B63LR Side Impact Sensor - Left Rear



2179777

Connector Part Information

Harness Type: Airbag Wiring Harness

OEM Connector: 13610095

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 Series, Sealed(GY)

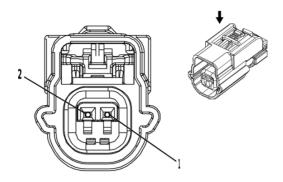
Terminal Part Information

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

B63LR Side Impact Sensor - Left Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-GN / WH	6620	Left Middle Side Impact Sensor Signal	_	_
2	0.5	GY / BK	6621	Left Middle Side Impact Sensor Low Reference	1	_

B63RF Side Impact Sensor - Right Front



3556418

Connector Part Information

Harness Type: Side Impact Sensor - Right Front Jumper

OEM Connector: 89047492

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 Series, Sealed(GY)

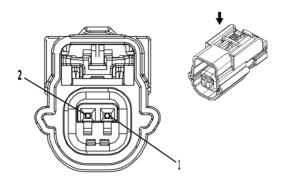
Terminal Part Information

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

B63RF Side Impact Sensor - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	WH	2134	Right Front Side Impact Sensor Signal	_	_
2	_	VT / WH	6629	Right Front Side Impact Sensor Low Reference	Ī	_

B63RR Side Impact Sensor - Right Rear (E24)



3556418

Connector Part Information

Harness Type: Airbag Wiring Harness

OEM Connector: 13593078

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 Series, Sealed(GY)

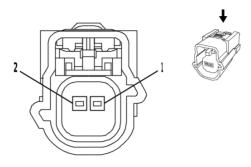
Terminal Part Information

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

B63RR Side Impact Sensor - Right Rear (E24)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU / BK	6624	Right Middle Side Impact Sensor Signal	_	_
2	0.5	L-GN / WH	6625	Right Middle Side Impact Sensor Low Reference	Ι	_

B63RR Side Impact Sensor - Right Rear (YA2)



2179777

Connector Part Information

Harness Type: Airbag Wiring Harness

OEM Connector: 13610095

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 Series, Sealed(GY)

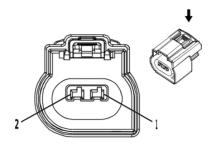
Terminal Part Information

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

B63RR Side Impact Sensor - Right Rear (YA2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU / BK	6624	Right Middle Side Impact Sensor Signal	_	_
2	0.5	L-GN / WH	6625	Right Middle Side Impact Sensor Low Reference	Ι	_

B68A Knock Sensor 1



2717073

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13814755 Service Connector: 19301207

Description: 2-Way F 1.5 MX Series, Sealed(BK)

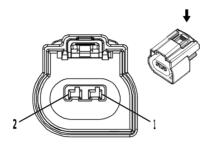
Terminal Part Information

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	0.75	VT / GY	496	Knock Sensor 1 Signal	Ι	_
2	0.75	BK / YE	1716	Knock Sensor Low Reference 1	I	_

B68B Knock Sensor 2



2717073

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13814755 Service Connector: 19301207

Description: 2-Way F 1.5 MX Series, Sealed(BK)

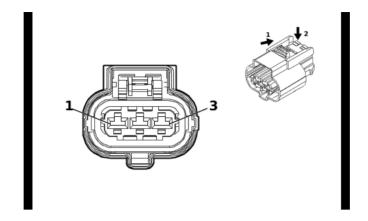
Terminal Part Information

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

B68B Knock Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	WH / GY	1876	Knock Sensor 2 Signal	1	_
2	0.75	BK / GY	2303	Knock Sensor Low Reference 2		_

B74 Manifold Absolute Pressure Sensor



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)

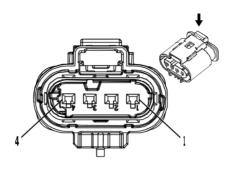
Terminal Part Information

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

B74 Manifold Absolute Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY / RD	2704	Manifold Absolute Pressure Sensor 5V Reference		_
2	0.5	BK / L- GN	469	Manifold Absolute Pressure Sensor Low Reference	I	_
3	0.5	L-GN / WH	432	Manifold Absolute Pressure Sensor Signal	I	_

B75C Multifunction Intake Air Sensor



2717096

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13815348 Service Connector: 13587298

Description: 4-Way F 1.2 Multilock Series, Sealed(L-GY)

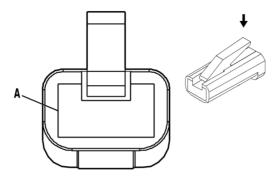
Terminal Part Information

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

B75C Multifunction Intake Air Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT / D- BU	5294	Powertrain Main Relay Fused Supply Voltage 5	Ι	
2	0.5	L-GN / WH	492	Mass Air Flow Sensor Signal	Ι	_
3	0.5	L-GN / WH	4622	Engine Control Module LIN Bus 2	Ι	_
4	0.75	BK / WH	1551	Signal Ground	I	_

B80 Park Brake Switch



35348

Connector Part Information

Harness Type: Park Brake Switch Jumper

OEM Connector: 12004267

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F 5.6 Series(BK)

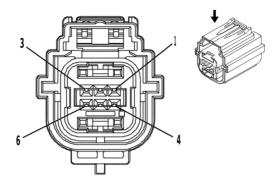
Terminal Part Information

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

B80 Park Brake Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	_	L-BU	1134	Park Brake Switch Signal	I	_

B87 Rearview Camera (-Cutaway)



2133378

Connector Part Information

Harness Type: Rear Door Door Wiring Harness

OEM Connector: 13629704

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.64 Series, Sealed(GY)

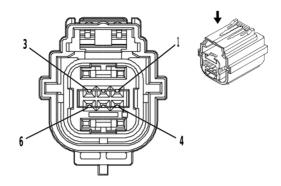
Terminal Part Information

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

B87 Rearview Camera (-Cutaway)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU	7641	Frontview Camera 2 Signal [+]	1	_
2	0.5	Bare	6799	Camera Shield Ground		_
3	0.5	L-GN	24	Backup Lamp Control	I	_
4	0.5	L-BU	7642	Frontview Camera 2 Signal [-]	I	_
5	0.5	BK	351	Signal Ground	I	_
6	0.5	PK	239	Run/Crank Ignition 1 Voltage	Ī	_

B87 Rearview Camera (Cutaway)



2133378

Connector Part Information

Harness Type: Rearview Camera Wiring Harness

OEM Connector: 13629704

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.64 Series, Sealed(GY)

Terminal Part Information

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

B87 Rearview Camera (Cutaway)

	· · · · · · · · · · · · · · · · · · ·					
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	7641	Frontview Camera 2 Signal [+]	I	_
2	0.5	Bare	6799	Camera Shield Ground	I	_
3	0.5	L-GN	24	Backup Lamp Control	I	_
4	0.5	L-BU	7642	Frontview Camera 2 Signal [-]	I	_
5	0.5	BK / WH	351	Signal Ground	I	_
6	0.5	PK	239	Run/Crank Ignition 1 Voltage	Ι	_

B99 Steering Wheel Angle Sensor

Connector Part Information

Harness Type: Steering Column OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way

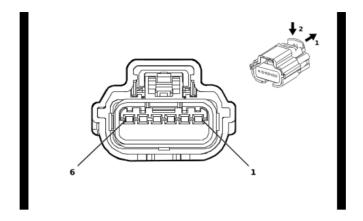
Terminal Part Information

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

B99 Steering Wheel Angle Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1		WH	6106	High Speed GMLAN Serial Data [-] 2	ĺ	
2		WH	6106	High Speed GMLAN Serial Data [-] 2	ĺ	
3		BU / YE	6105	High Speed GMLAN Serial Data [+] 2	l	
4		BU / YE	6105	High Speed GMLAN Serial Data [+] 2	l	
5		L-GN / BN	2087	Multi-axis Acceleration Sensor Supply Voltage	I	
6	_	BK / WH	351	Signal Ground	I	_

B107 Accelerator Pedal Position Sensor



5157678

Connector Part Information

Harness Type: Accelerator Control Wiring Harness

OEM Connector: 35199156

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 64 Series, Sealed(BK)

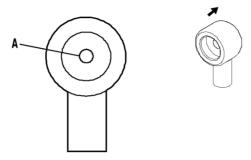
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
Ι	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	0.35	WH / RD	1164	Accelerator Pedal Position 5V Reference 1	I	_
2	0.35	YE / WH	1161	Accelerator Pedal Position Signal 1	I	_
3	0.35	BK / D- BU	1271	Accelerator Pedal Position Low Reference 1	I	_
4	0.35	BK / VT	1272	Accelerator Pedal Position Low Reference 2	I	_
5	0.35	L-GN / WH	1162	Accelerator Pedal Position Signal 2	I	_
6	0.35	BN / RD	1274	Accelerator Pedal Position 5V Reference 2	Ī	_

B133 Brake Booster Fluid Flow Alarm Switch X1



2004808

Connector Part Information

Harness Type: Brake Fluid Level Indicator Wiring Harness

OEM Connector: 6288440

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F Grip Series(BK)

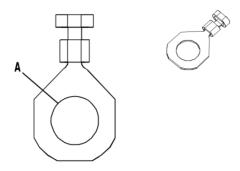
Terminal Part Information

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

B133 Brake Booster Fluid Flow Alarm Switch X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.5	L-BU / BK	1928	Brake Booster Fluid Flow Alarm Switch Signal	Ι	

B133 Brake Booster Fluid Flow Alarm Switch X2



3240148

Connector Part Information

Harness Type: Brake Fluid Level Indicator Wiring Harness

OEM Connector: 12103516

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

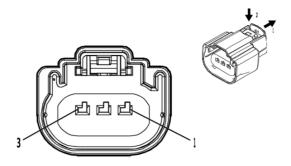
Terminal Part Information

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

B133 Brake Booster Fluid Flow Alarm Switch X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	BK	350	Ground		

B150 Fuel Tank Pressure Sensor



4589538

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 33343864

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 1.5 MX Series, Sealed(GY)

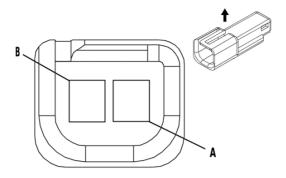
Terminal Part Information

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

B150 Fuel Tank Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU / WH	890	Fuel Tank Pressure Sensor Signal	Ι	_
2	0.5	BK / BN	6284	Fuel Tank Pressure Sensor Low Reference	I	_
3	0.5	YE / RD	2709	Fuel Tank Pressure Sensor 5V Reference	1	

B153D Seat Belt Buckle - Driver



35441

Connector Part Information

Harness Type: Driver Seat OEM Connector: 12047663

Service Connector: Service by Harness - See Part Catalog Description: 2-Way M 150 Metri-Pack Series(BK)

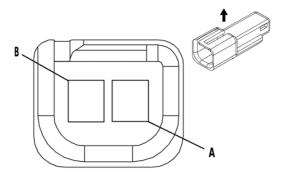
Terminal Part Information

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

B153D Seat Belt Buckle - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	_	PK	5057	Seat Position Switch Low Reference	_	_
В	_	TN / WH	238	Driver Seat Belt Switch Signal	I	_

B153P Seat Belt Buckle - Passenger



35441

Connector Part Information

Harness Type: Passenger Seat OEM Connector: 12047663

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 150 Metri-Pack Series(BK)

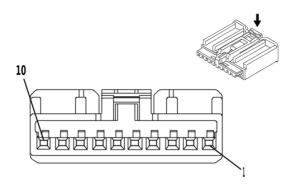
Terminal Part Information

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

B153P Seat Belt Buckle - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	_	PK	1361	Passenger Seat Belt Switch Low Reference	_	_
В	_	OG	1362	Passenger Seat Belt Switch Signal	Ī	_

B174W Frontview Camera - Windshield



1862241

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 13574592 Service Connector: 13576634

Description: 10-Way F 0.64 Kaizen Series(BK)

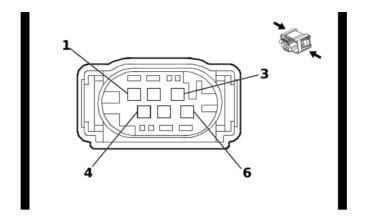
Terminal Part Information

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

B174W Frontview Camera - Windshield

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	1850	Ground	I	_
2	_	_	_	Not Occupied	_	_
3	0.5	RD / L- GN	3140	Battery Positive Voltage	I	_
4	0.5	WH	3152	Lane Departure Warning Indicator Control	I	_
5 - 6	_	_	_	Not Occupied	_	_
7	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	_
8 - 9	_	_	_	Not Occupied	_	_
10	0.5	GY / WH	3153	Lane Departure Warning Disable Switch Signal		_

B176 Multi-axis Acceleration Sensor Module



831393

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 15355474 Service Connector: 15306420

Description: 6-Way F 0.64 Micro-Quadlock Series, Sealed(BK)

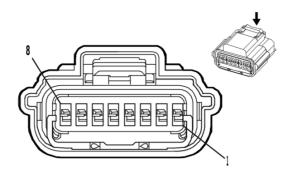
Terminal Part Information

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

B176 Multi-axis Acceleration Sensor Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK / BN	6045	Steering Angle Sensor Low Reference	1	_
2 - 3		_	_	Not Occupied	_	_
4	0.5	D-BU / YE	6105	High Speed GMLAN Serial Data [+] 2	I	_
5	0.5	WH	6106	High Speed GMLAN Serial Data [-] 2	I	_
6	0.5	BK / WH	2751	Signal Ground	I	_

B218L Side Object Sensor Module - Left (UFT)



2581486

Connector Part Information

Harness Type: Rear Object Alarm Sensor Wiring Harness

OEM Connector: 15543347

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 0.64 Series, Sealed(BK)

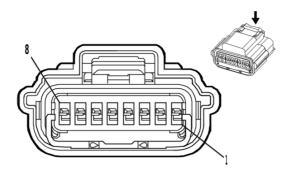
Terminal Part Information

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

B218L Side Object Sensor Module - Left (UFT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	_	_	Not Occupied		
2	0.5	L-GN	5060	Low Speed GMLAN Serial Data	I	
3	_	_	_	Not Occupied	_	
4	0.5	GY / YE	5853	Driver Side Side Object Detection LED Signal 1	I	_
5	0.5	RD / L- GN	3140	Battery Positive Voltage	Ι	
6	_	_	_	Not Occupied		
7	0.5	L-GN / BK	5060	Low Speed GMLAN Serial Data	_	
8	0.5	BK	2150	Ground	I	_

B218R Side Object Sensor Module - Right (UFT)



2581486

Connector Part Information

Harness Type: Rear Object Alarm Sensor Wiring Harness

OEM Connector: 15543346

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 0.64 Series, Sealed(BK)

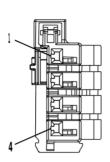
Terminal Part Information

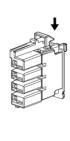
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	Not required J-35616-64B (L-BU)		

B218R Side Object Sensor Module - Right (UFT)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	_	_	_	Not Occupied	_	_
3	0.5	BK	2150	Ground	I	_
4	0.5	GY	5861	Passenger Side Object Detection LED Signal 1	I	_
5	0.5	RD / L- GN	3140	Battery Positive Voltage	I	_
6	_	_	_	Not Occupied	_	_
7	0.5	L-GN / BK	5060	Low Speed GMLAN Serial Data	I	_
8	0.5	BK	2150	Ground	I	_

B303 Transmission Range Sensor (M5U)





4364148

Connector Part Information

Harness Type: Automatic Transmission Wiring Harness

OEM Connector: 2289524-1

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 1.2 MCON Series(BN)

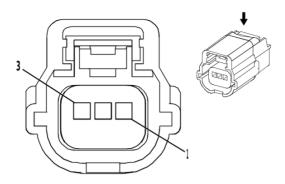
Terminal Part Information

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

B303 Transmission Range Sensor (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	GN / YE	3337	Transmission Internal Mode Switch Mode Control Y	Ι	_
2	_	WH / RD	596	5V Reference	I	_
3	_	BK / GY	3927	Transmission Internal Mode Switch Feedback Signal	I	_
4	_	BU / WH	3338	Transmission Internal Mode Switch Mode Control X	Ι	_

B306E Parking Assist Sensor - Rear Left Outer (UD7)



1664596

Connector Part Information

Harness Type: Rear Object Alarm Sensor Wiring Harness

OEM Connector: 13525738

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 0.64 Series, Sealed(BK)

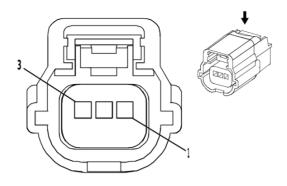
Terminal Part Information

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

B306E Parking Assist Sensor - Rear Left Outer (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU	2374	Object Sensor Voltage Reference	I	_
2	0.5	GY	2379	Object Sensor Low Reference	I	_
3	0.5	YE	2375	Left Rear Outer Parking Assist Sensor Signal	I	_

B306F Parking Assist Sensor - Rear Left Middle (UD7)



1664596

Connector Part Information

Harness Type: Rear Object Alarm Sensor Wiring Harness

OEM Connector: 13525738

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 0.64 Series, Sealed(BK)

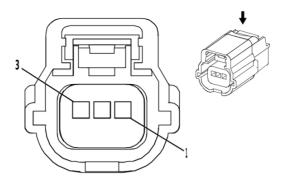
Terminal Part Information

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

B306F Parking Assist Sensor - Rear Left Middle (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU	2374	Object Sensor Voltage Reference	I	_
2	0.5	GY	2379	Object Sensor Low Reference	I	_
3	0.5	YE / D- BU	2376	Left Rear Middle Parking Assist Sensor Signal	_	_

B306G Parking Assist Sensor - Rear Right Middle (UD7)



1664596

Connector Part Information

Harness Type: Rear Object Alarm Sensor Wiring Harness

OEM Connector: 13525738

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 0.64 Series, Sealed(BK)

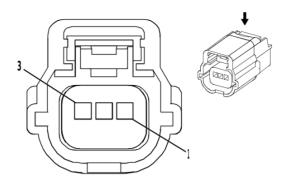
Terminal Part Information

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

B306G Parking Assist Sensor - Rear Right Middle (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU	2374	Object Sensor Voltage Reference	Ι	_
2	0.5	GY	2379	Object Sensor Low Reference	I	_
3	0.5	YE / WH	2377	Right Rear Middle Parking Assist Sensor Signal	Ι	_

B306H Parking Assist Sensor - Rear Right Outer (UD7)



1664596

Connector Part Information

Harness Type: Rear Object Alarm Sensor Wiring Harness

OEM Connector: 13525738

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 0.64 Series, Sealed(BK)

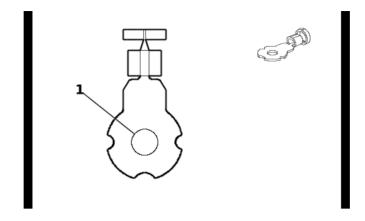
Terminal Part Information

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

B306H Parking Assist Sensor - Rear Right Outer (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU	2374	Object Sensor Voltage Reference	I	_
2	0.5	GY	2379	Object Sensor Low Reference	I	_
3	0.5	YE / VT	2378	Right Rear Outer Parking Assist Sensor Signal	I	_

C1 Battery ((-))



5693569

Connector Part Information

Harness Type: Battery Negative Cable

OEM Connector: 12177185

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

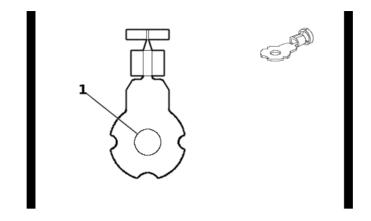
Terminal Part Information

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

C1 Battery ((-))

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	19	BK	50	Ground		_
1	32	BK	50	Ground	-	_

C1 Battery ((+))



5693569

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 12177185

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

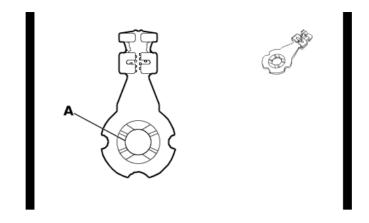
Terminal Part Information

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

C1 Battery ((+))

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	32	RD	1	Unfused Battery Positive Voltage		<u> </u>
ı	8	RD	1	Unfused Battery Positive Voltage	-	_

C1B Battery - Auxiliary



6056264

Connector Part Information

Harness Type: Auxiliary Battery Positive Cable

OEM Connector: 12146464

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

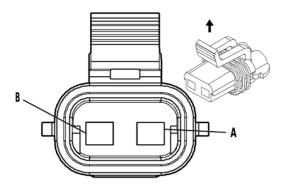
Terminal Part Information

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

C1B Battery - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	13	RD	1	Unfused Battery Positive Voltage		

E2LF Side Marker Lamp - Left Front



68721

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 15300027 Service Connector: 12101855

Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

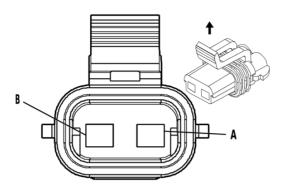
Terminal Part Information

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

E2LF Side Marker Lamp - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	GY / BN	2309	Front Park Lamp Control	_	_
В	0.5	BK	250	Ground	Ī	_

E2RF Side Marker Lamp - Right Front



68721

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 15300027 Service Connector: 12101855

Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

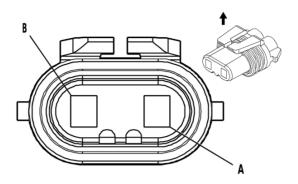
Terminal Part Information

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

E2RF Side Marker Lamp - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	GY / BN	2309	Front Park Lamp Control	1	_
В	0.5	BK	650	Ground	I	_

E4E Headlamp - Left High Beam



684797

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 12059183 Service Connector: 12101898

Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

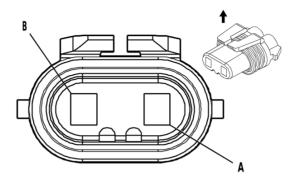
Terminal Part Information

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

E4E Headlamp - Left High Beam

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.75	WH	711	Left Headlamp High Beam Control		_
В	0.75	BK	250	Ground	I	_

E4F Headlamp - Right High Beam



684797

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 12059183 Service Connector: 12101898

Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

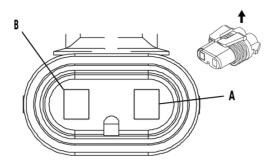
Terminal Part Information

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

E4F Headlamp - Right High Beam

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.75	WH	311	Right Headlamp High Beam Control		_
В	0.75	BK	650	Ground	I	_

E4G Headlamp - Left Low Beam



684796

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 12059181 Service Connector: 19301866

Description: 2-Way F 280 Metri-Pack Series, Sealed(GY)

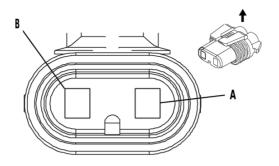
Terminal Part Information

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

E4G Headlamp - Left Low Beam

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	YE	712	Left Headlamp Low Beam Control	_	_
В	0.75	BK	250	Ground	I	_

E4H Headlamp - Right Low Beam



684796

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 12059181 Service Connector: 19301866

Description: 2-Way F 280 Metri-Pack Series, Sealed(GY)

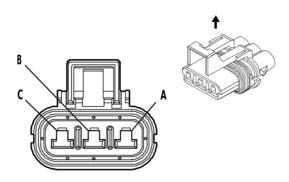
Terminal Part Information

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

E4H Headlamp - Right Low Beam

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.75	YE	312	Right Headlamp Low Beam Control	_	_
В	0.75	BK	650	Ground	I	_

E4N Park/Turn Signal Lamp - Left



847206

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 12040977 Service Connector: 12085492

Description: 3-Way F 280 Metri-Pack Series, Sealed(BK)

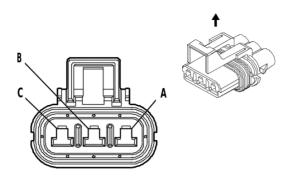
Terminal Part Information

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

E4N Park/Turn Signal Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.75	L-BU / WH	1314	Left Front Turn Signal Lamp Control	Ι	_
В	0.5	GY / BN	2309	Front Park Lamp Control	I	_
С	0.5	BK	250	Ground		_

E4P Park/Turn Signal Lamp - Right



847206

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 12040977 Service Connector: 12085492

Description: 3-Way F 280 Metri-Pack Series, Sealed(BK)

Terminal Part Information

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

E4P Park/Turn Signal Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	D-BU / WH	1315	Right Front Turn Signal Lamp Control	Ι	
В	0.5	GY / BN	2309	Front Park Lamp Control	I	_
С	0.5	BK	650	Ground	Ι	

E5A Backup Lamp - Left

Connector Part Information

Harness Type: Tail Lamp Wiring Harness

OEM Connector: EEM0274

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	
1	Not required	No Tool Required	No Tool Required	

E5A Backup Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	_	L-GN	24	Backup Lamp Control	I	_
G	_	BK	850	Ground	I	_

E5B Backup Lamp - Right

Connector Part Information

Harness Type: Tail Lamp Wiring Harness

OEM Connector: EEM0274

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	
1	Not required	No Tool Required	No Tool Required	

E5B Backup Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	_	L-GN	24	Backup Lamp Control	I	_
G	_	BK	1050	Ground	I	_

E5S Tail/Stop and Turn Signal Lamp - Left

Connector Part Information

Harness Type: Tail Lamp Wiring Harness

OEM Connector: EEM0275

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way

Terminal Part Information

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

E5S Tail/Stop and Turn Signal Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	_	BN	2509	Left Rear Park Lamp Control	I	_
В	_	BN	2509	Left Rear Park Lamp Control	I	_
G	_	BK	850	Ground	I	_

E5T Tail/Stop and Turn Signal Lamp - Right

Harness Type: Tail Lamp Wiring Harness

OEM Connector: EEM0275

Connector Part Information

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way

Terminal Part Information

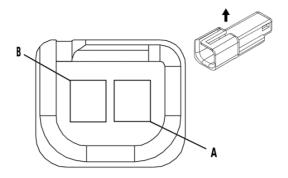
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	No Tool Required	No Tool Required	

E5T Tail/Stop and Turn Signal Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А		D-GN BN	619 2609	Right Rear Turn Signal Lamp Control Right Rear Park Lamp Control		— PASSENGER/ CARGO
В	_	BN	2609	Right Rear Park Lamp Control	I	_
G	_	BK	1050	Ground	I	_

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E6 Center High Mounted Stop Lamp



35441

Connector Part Information

Harness Type: Center High Mounted Stop Lamp

OEM Connector: 12047663

Service Connector: Service by Harness - See Part Catalog Description: 2-Way M 150 Metri-Pack Series(BK)

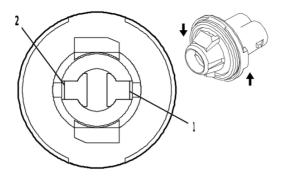
Terminal Part Information

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

E6 Center High Mounted Stop Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	_	L-BU	1320	Center High Mounted Stop Lamp Control 2	_	_
В	_	BK	850	Ground	I	_

E7 License Plate Lamp



5153536

Connector Part Information

Harness Type: Rear Door Door 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)

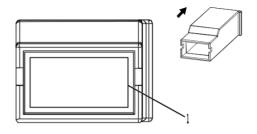
Terminal Part Information

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

E7 License Plate Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	2509	Left Rear Park Lamp Control	_	_
2	0.5	BK	1050	Ground	I	_

E18L Rear Defogger Grid - Left X1



2500421

Connector Part Information

Harness Type: Rear Window Defogger Wiring Harness

OEM Connector: 12103107

Service Connector: Service by Harness - See Part Catalog Description: 1-Way F 6.3 Positive Lock Series(BK)

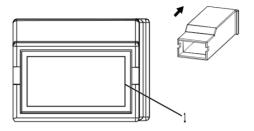
Terminal Part Information

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

E18L Rear Defogger Grid - Left X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_		_	Not Occupied		_
Α	5	PU	293	Rear Defogger Grid Control	I	_

E18L Rear Defogger Grid - Left X2



2500421

Connector Part Information

Harness Type: Rear Window Defogger Wiring Harness

OEM Connector: 12103107

Service Connector: Service by Harness - See Part Catalog Description: 1-Way F 6.3 Positive Lock Series(BK)

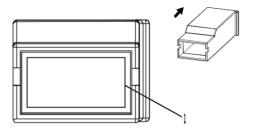
Terminal Part Information

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

E18L Rear Defogger Grid - Left X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	3	BK	850	Ground	I	

E18R Rear Defogger Grid - Right X1



2500421

Connector Part Information

Harness Type: Rear Window Defogger Wiring Harness

OEM Connector: 12103107

Service Connector: Service by Harness - See Part Catalog Description: 1-Way F 6.3 Positive Lock Series(BK)

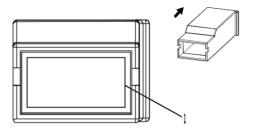
Terminal Part Information

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

E18R Rear Defogger Grid - Right X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_		_	Not Occupied		_
Α	5	PU	293	Rear Defogger Grid Control	I	_

E18R Rear Defogger Grid - Right X2



2500421

Connector Part Information

Harness Type: Rear Window Defogger Wiring Harness

OEM Connector: 12103107

Service Connector: Service by Harness - See Part Catalog Description: 1-Way F 6.3 Positive Lock Series(BK)

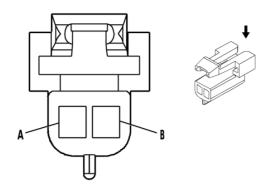
Terminal Part Information

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

E18R Rear Defogger Grid - Right X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	3	BK	1050	Ground		

E21A Fluorescent Work Lamp - Right Access Panel



280768

Connector Part Information

Harness Type: Rear Body OEM Connector: 12052832

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 Metri-Pack Series(BK)

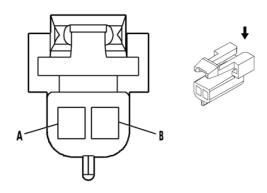
Terminal Part Information

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

E21A Fluorescent Work Lamp - Right Access Panel

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	l	D-BU / WH	149	Courtesy Lamp Control	_	_
В	_	BK	150	Ground	I	_

E21F Fluorescent Work Lamp - Front Cargo



280768

Connector Part Information

Harness Type: Rear Body OEM Connector: 12052832

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 Metri-Pack Series(BK)

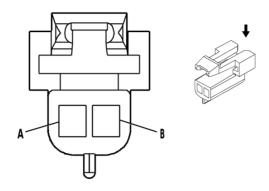
Terminal Part Information

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

E21F Fluorescent Work Lamp - Front Cargo

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	_	D-BU / WH	149	Courtesy Lamp Control	Ι	_
В	_	BK	150	Ground	I	_

E21LF Fluorescent Work Lamp - Left Front Access Panel



280768

Connector Part Information

Harness Type: Rear Body OEM Connector: 12052832

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 Metri-Pack Series(BK)

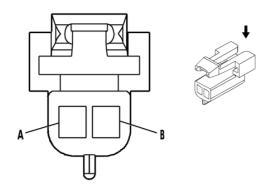
Terminal Part Information

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

E21LF Fluorescent Work Lamp - Left Front Access Panel

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	l	D-BU / WH	149	Courtesy Lamp Control	_	_
В	_	BK	150	Ground	I	_

E21LR Fluorescent Work Lamp - Left Rear Access Panel



280768

Connector Part Information

Harness Type: Rear Body OEM Connector: 12052832

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 Metri-Pack Series(BK)

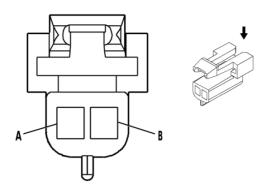
Terminal Part Information

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

E21LR Fluorescent Work Lamp - Left Rear Access Panel

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	1	D-BU / WH	149	Courtesy Lamp Control	_	_
В	_	BK	150	Ground	Ι	_

E21R Fluorescent Work Lamp - Rear Cargo



280768

Connector Part Information

Harness Type: Rear Body OEM Connector: 12052832

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 Metri-Pack Series(BK)

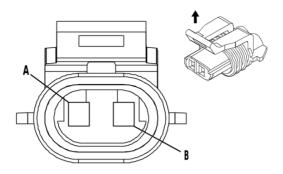
Terminal Part Information

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

E21R Fluorescent Work Lamp - Rear Cargo

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	1	D-BU / WH	149	Courtesy Lamp Control	_	_
В	_	BK	150	Ground	Ī	_

E22 Underhood Lamp



537107

Connector Part Information

Harness Type: Underhood Lamp Wiring Harness

OEM Connector: 12052644

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 150 Metri-Pack Series, Sealed(GY)

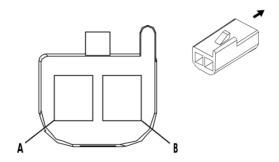
Terminal Part Information

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

E22 Underhood Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	OG	1732	Control Module 12V Reference 3	_	_
В	0.5	BK	1250	Ground	Ī	_

E36AC Dome Lamp - Left Roof Rail



82383

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12047662 Service Connector: 12085535

Description: 2-Way F 150 Metri-Pack Series(BK)

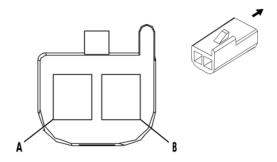
Terminal Part Information

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

E36AC Dome Lamp - Left Roof Rail

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.8	D-BU / WH	149	Courtesy Lamp Control	_	_
В	0.8	BK	850	Ground	I	_

E36AD Dome Lamp - Right Roof Rail



82383

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12047662 Service Connector: 12085535

Description: 2-Way F 150 Metri-Pack Series(BK)

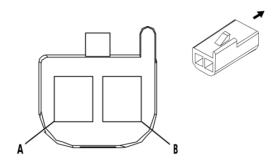
Terminal Part Information

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

E36AD Dome Lamp - Right Roof Rail

				·		
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	D-BU / WH	149	Courtesy Lamp Control	_	_
В	0.8	BK	850	Ground	I	_

E36AH Dome Lamp



82383

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12047662 Service Connector: 12085535

Description: 2-Way F 150 Metri-Pack Series(BK)

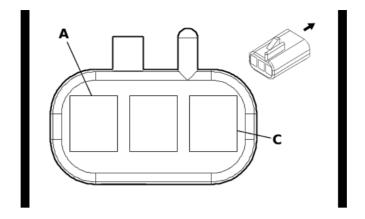
Terminal Part Information

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

E36AH Dome Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.8	D-BU / WH	149	Courtesy Lamp Control	Ι	_
В	0.8	BK	850	Ground	I	_

E37F Dome/Reading Lamps - Front



333035

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 12047781 Service Connector: 13586139

Description: 3-Way F 150 Metri-Pack Series(BK)

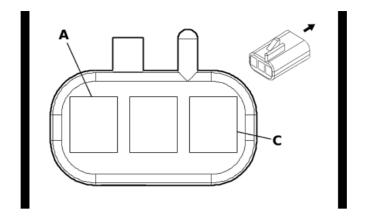
Terminal Part Information

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

E37F Dome/Reading Lamps - Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	D-BU / WH	149	Courtesy Lamp Control	Ι	_
В	1	BK	1850	Ground	I	DH6
Ь	0.8	BK	1850	Ground	I	- DH6
С	0.8	OG	1732	Control Module 12V Reference 3	I	_

E37M Dome/Reading Lamps - Middle



333035

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 12047781 Service Connector: 13586139

Description: 3-Way F 150 Metri-Pack Series(BK)

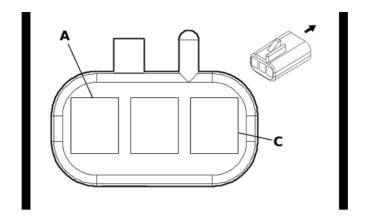
Terminal Part Information

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

E37M Dome/Reading Lamps - Middle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	D-BU / WH	149	Courtesy Lamp Control	Ι	
В	0.5	BK	1050	Ground	ļ	_
С	0.8	OG	1732	Control Module 12V Reference 3	Ī	

E37R Dome/Reading Lamps - Rear



333035

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 12047781 Service Connector: 13586139

Description: 3-Way F 150 Metri-Pack Series(BK)

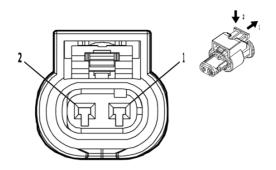
Terminal Part Information

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

E37R Dome/Reading Lamps - Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.8	D-BU / WH	149	Courtesy Lamp Control	_	_
В	0.5	BK	1050	Ground	I	_
С	0.8	OG	1732	Control Module 12V Reference 3	1	_

F101 Passenger Instrument Panel Air Bag



2698576

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13863037 Service Connector: 19369032

Description: 2-Way F 1.2 MCON Series, Sealed(YE)

Terminal Part Information

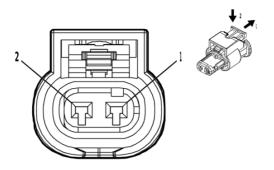
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-16 (L-GN)	No Tool Required	

F101 Passenger Instrument Panel Air Bag

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	3025	Passenger Instrument Panel Air Bag Stage 1 High Control	Ι	_
2	0.5	OG	3024	Passenger Instrument Panel Air Bag Stage 1 Low Control		_

6-160

F105LF Roof Rail Air Bag - Left Front



2698576

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 13863037 Service Connector: 19369032

Description: 2-Way F 1.2 MCON Series, Sealed(YE)

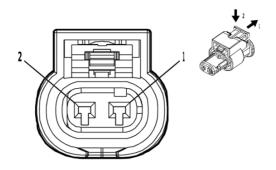
Terminal Part Information

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

F105LF Roof Rail Air Bag - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	PK	5020	Left Front Roof Rail Air Bag Low Control	I	_
2	0.5	PU / WH	5019	Left Front Roof Rail Air Bag High Control		_

F105RF Roof Rail Air Bag - Right Front



2698576

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 13863037 Service Connector: 19369032

Description: 2-Way F 1.2 MCON Series, Sealed(YE)

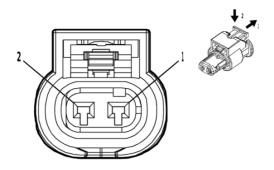
Terminal Part Information

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

F105RF Roof Rail Air Bag - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH / BK	5022	Right Front Roof Rail Air Bag Low Control	_	_
2	0.5	YE / BK	5021	Right Front Roof Rail Air Bag High Control		_

F105RR Roof Rail Air Bag - Right Rear



2698576

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 13863037 Service Connector: 19369032

Description: 2-Way F 1.2 MCON Series, Sealed(YE)

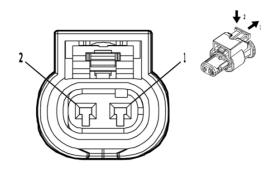
Terminal Part Information

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

F105RR Roof Rail Air Bag - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	TN / BK	7016	Right Rear Roof Rail Air Bag Low Control	I	_
2	0.5	L-BU	7015	Right Rear Roof Rail Air Bag High Control		_

F106D Seat Side Air Bag - Driver



2698576

Connector Part Information

Harness Type: Driver Seat Air Bag Jumper

OEM Connector: 13580144

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 1.2 MCON Series, Sealed(YE)

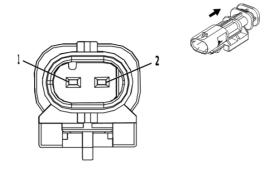
Terminal Part Information

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

F106D Seat Side Air Bag - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	BN	2137	Left Front Seat Side Air Bag High Control	_	_
2	_	YE / BK	2138	Left Front Seat Side Air Bag Low Control	Ī	_

F106P Seat Side Air Bag - Passenger



2474755

Connector Part Information

Harness Type: Passenger Seat Air Bag Jumper

OEM Connector: 13580142

Service Connector: Service by Harness - See Part Catalog Description: 2-Way M 1.2 MCON Series, Sealed(YE)

Terminal Part Information

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

F106P Seat Side Air Bag - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1		TN / WH	2135	Right Front Seat Side Air Bag High Control	1	_
2	_	L-GN	2136	Right Front Seat Side Air Bag Low Control	Ī	_

F107 Steering Wheel Air Bag

Connector Part Information

Harness Type: Steering Wheel Air Bag

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way

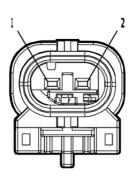
Terminal Part Information

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

F107 Steering Wheel Air Bag

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1		TN	3021	Steering Wheel Air Bag Stage 1 High Control	I	_
2	_	BN	3020	Steering Wheel Air Bag Stage 1 Low Control	I	_

F109D Seat Belt Buckle Pretensioner - Driver





4569729

Connector Part Information

Harness Type: Driver Seat Pretensioner Jumper

OEM Connector: 13581182

Service Connector: Service by Harness - See Part Catalog Description: 2-Way M 1.2 MCON Series, Sealed(YE)

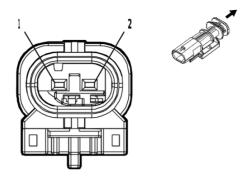
Terminal Part Information

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

F109D Seat Belt Buckle Pretensioner - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1		TN / WH	2118	Driver Seat Belt Pretensioner High Control	I	_
2	_	OG / BK	2119	Driver Seat Belt Pretensioner Low Control		_

F109P Seat Belt Buckle Pretensioner - Passenger



4569729

Connector Part Information

Harness Type: Passenger Seat Pretensioner Jumper

OEM Connector: 13581182

Service Connector: Service by Harness - See Part Catalog Description: 2-Way M 1.2 MCON Series, Sealed(YE)

Terminal Part Information

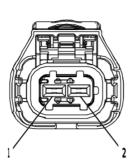
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-12 (BU)	No Tool Required	

F109P Seat Belt Buckle Pretensioner - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	L-GN	2116	Passenger Seat Belt Pretensioner High Control	_	_
2	_	OG	2117	Passenger Seat Belt Pretensioner Low Control	I	_

G13 Generator X1

6-168





2577394

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13930085 Service Connector: 13384371

Description: 2-Way F 2.8 Series, Sealed(BK)

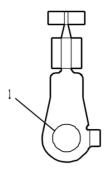
Terminal Part Information

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

G13 Generator X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU / WH	225	Generator Turn On Signal	_	_
2	0.5	GY	23	Generator Field Duty Cycle Signal	I	_

G13 Generator X2 (L8T+KG4+TP3)





4833656

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 15544794

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

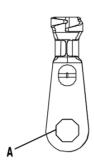
Terminal Part Information

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

G13 Generator X2 (L8T+KG4+TP3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	25	RD	1	Unfused Battery Positive Voltage	I	_

G13 Generator X2 (L8T+KG4-TP3)





3214043

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 33257772

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

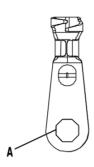
Terminal Part Information

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

G13 Generator X2 (L8T+KG4-TP3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	25	RD	1	Unfused Battery Positive Voltage	_	

G13 Generator X2 (L8T+KW5+TP3)





3214043

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 33257772

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

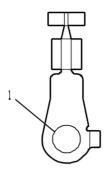
Terminal Part Information

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

G13 Generator X2 (L8T+KW5+TP3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	25	RD	1	Unfused Battery Positive Voltage	I	

G13 Generator X2 (L8T+KW5-TP3)





4833656

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 15544794

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

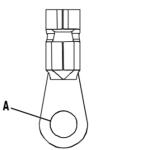
Terminal Part Information

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

G13 Generator X2 (L8T+KW5-TP3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	25	RD	1	Unfused Battery Positive Voltage	Ι	

G13 Generator X2 (LV1+K68)





2268698

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 12129598

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

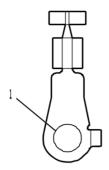
Terminal Part Information

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

G13 Generator X2 (LV1+K68)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	19	RD	1	Unfused Battery Positive Voltage	I	_

G13 Generator X2 (LV1+KW5)





4833656

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 15544794

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

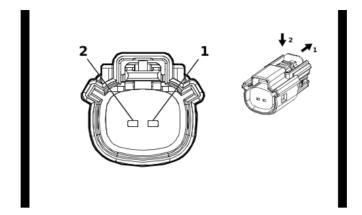
Terminal Part Information

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

G13 Generator X2 (LV1+KW5)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	25	RD	1	Unfused Battery Positive Voltage	Ι	

G18 High Pressure Fuel Pump



2474713

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

OEM Connector: 13583151

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 MX Series, Sealed(BK)

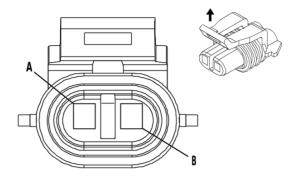
Terminal Part Information

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

G18 High Pressure Fuel Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75 0.75	VT / BK YE	7300 7301	High Pressure Fuel Pump Low Control High Pressure Fuel Pump High Control	 	L8T LV1
2	0.75 0.75	YE VT / BK	7301 7300	High Pressure Fuel Pump High Control High Pressure Fuel Pump Low Control		L8T LV1

G24 Windshield Washer Pump



635009

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12052641 Service Connector: 13586114

Description: 2-Way F 150 Metri-Pack Series, Sealed(BK)

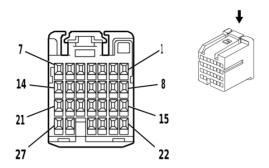
Terminal Part Information

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

G24 Windshield Washer Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	G	228	Windshield Washer Pump Control	_	_
В	0.5	BK	350	Ground	I	_

K9 Body Control Module X1



1664495

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15482789 Service Connector: 88988838

Description: 27-Way F HIT Series(L-GN)

Terminal Part Information

Terminal Type	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	13575870	J-35616-64B (L-BU)	J-38125-12A		

K9 Body Control Module X1

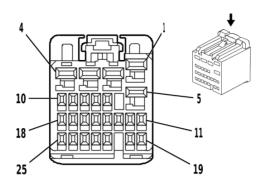
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	_	_	Not Occupied	_	_
2	0.35	PK	1020	Off/Run/Crank Ignition Voltage	I	_
3	0.35	GY	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	_
4	0.35	WH	530	Off/Run/Crank Ignition Voltage	I	_
5	0.35	L-GN	1715	Windshield Wiper Switch High Signal	I	_
6	0.35	L-GN	6818	Steering Wheel Controls Signal 1	I	_
7	_	_	_	Not Occupied	_	_
8	0.35	TN / BK	6009	Windshield Wiper Switch Low Reference	I	_
9	0.35	L-BU	1714	Windshield Wiper Switch Low Signal	I	_
10 - 13	_	_	_	Not Occupied	_	_
14	0.35	PK	3	Run/Crank Ignition 1 Voltage	I	_
15	0.35	D-GN	663	Hazard Switch Left Turn Signal	I	_
16	0.35	TN	664	Hazard Switch Right Turn Signal	1	_
17	0.35	PK	1444	12V Reference	I	_
18	0.35	YE	525	High Beam Select Switch Low Beam Signal	I	_
19	0.35	WH	111	Hazard Warning Switch Signal	I	_
20	0.35	PU	5526	Tap Up/Tap Down Switch Signal	1	_
21	0.35	BN	4	Accessory Ignition Voltage	I	_
22	_	_	_	Not Occupied	_	_
23	0.35	L-BU	1788	Traction Control Switch Signal 1	I	_
24	0.35	PK	94	Windshield Washer Switch Signal	I	_

6-178 Electrical Component and Inline Harness Connector End Views

K9 Body Control Module X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
25	0.35	YE	307	Headlamp Switch Flash Signal	I	_
26	0.5	TN / WH	816	Brake Transmission Shift Interlock Solenoid Actuator Control	I	_
27	_	_	_	Not Occupied	_	_

K9 Body Control Module X2



1664496

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15482790 Service Connector: 88988839

Description: 25-Way F HIT Series(NA)

Terminal Part Information

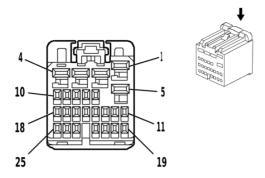
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575870	J-35616-64B (L-BU)	J-38125-12A
II	13575871	J-35616-35 (VT)	J-38125-12A

K9 Body Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	OG	1732	Control Module 12V Reference 3	ll ll	_
2	0.5	RD / WH	2540	Battery Positive Voltage	ll ll	_
3	0.5	BN / WH	230	Instrument Panel Lamp Dimming Control	- II	_
4	_	_	_	Not Occupied	_	_
5	0.8	D-BU / WH	149	Courtesy Lamp Control	II	_
6 - 7	_	_	_	Not Occupied	_	_
8	0.35	L-BU	13	Headlamp Switch Park Lamp Signal	I	_
9 - 10	_	_	_	Not Occupied	_	_
11	0.35	WH	278	Ambient Light Sensor Signal	I	_
12	0.35	WH	103	Headlamp Switch On Signal	I	_
13 - 16	_	_	_	Not Occupied	_	_
17	0.35	D-GN	306	Headlamp Switch Off Signal	I	_
18	0.35	D-BU / WH	149	Courtesy Lamp Control	ı	_
19 - 20	_	_	_	Not Occupied	_	_
21	0.5	D-BU	6727	Vehicle Stability Control Switch Signal	I	
22	0.35	D-BU	38	Backup Lamp Relay Control	I I	_
23 - 24	_	_	_	Not Occupied		_
25	0.35	PU	328	Interior Lamp Defeat Switch Signal	I	

K9 Body Control Module X3

6-180



1664498

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15482791 Service Connector: 88988840

Description: 25-Way F HIT Series(L-BU)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575870	J-35616-64B (L-BU)	J-38125-12A
II	13575871	J-35616-35 (VT)	J-38125-12A

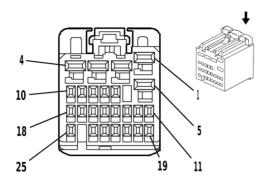
K9 Body Control Module X3

Pin	Size	Color	Circuit	Function	Terminal	Option
					Type ID	
1	0.8	BK / WH	351	Signal Ground	II	_
2	0.8	RD / WH	2140	Battery Positive Voltage	II	_
3	0.5	RD / WH	3840	Battery Positive Voltage	II	_
4	_	_	_	Not Occupied	_	_
5	0.8	BK / WH	351	Signal Ground	II	_
6 - 7	_	_	_	Not Occupied	_	_
8	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	_
9	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	I	_
10	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	_
11	0.35	D-GN	44	Instrument Panel Lamp Dimmer Switch Signal	I	_
12	0.35	OG / WH	812	12V Reference	I	_
13	0.5	TN	5380	Brake Position Sensor Signal	I	_
14	0.5	BN / WH	5382	Brake Position Sensor Low Reference	I	_
15	0.5	GY	5381	Brake Position Sensor 5V Reference	I	_
16	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	_
17	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	I	_
18	0.5	YE	6817	LED Backlight Dimming Control 1	I	_
19	0.5	WH / D- BU	5986	Serial Data Communication Enable	ı	_
20 - 21	_	_	_	Not Occupied	_	_
22	0.35	D-GN / WH	7158	Cruise Control Indicator Dimming Signal	I	<u> </u>

K9 Body Control Module X3 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
23 - 24			_	Not Occupied		
25	0.35	WH	6816	Indicator Dimming Control	I	_

K9 Body Control Module X4



1664499

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15482792 Service Connector: 88988841

Description: 25-Way F HIT Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575870	J-35616-64B (L-BU)	J-38125-12A
II	13575871	J-35616-35 (VT)	J-38125-12A
III	Not required	No Tool Required	No Tool Required

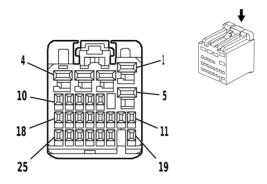
K9 Body Control Module X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	RD / WH	2740	Battery Positive Voltage	II	_
2	0.8	RD / WH	3040	Battery Positive Voltage	II	_
3	0.8	RD / WH	2940	Battery Positive Voltage	II	_
4	0.8	RD / WH	2240	Battery Positive Voltage	II	_
5	0.8	D-BU / WH	1315	Right Front Turn Signal Lamp Control	II	_
6	0.35	D-GN	6134	Body Control Module LIN Bus 3	I	_
7	0.35	YE	196	Windshield Wiper Motor Park Switch Signal	I	_
8	_	_	_	Not Occupied	_	_
9	0.5	BK / WH	451	Signal Ground	I	_
10	0.5	RD / WH	2840	Battery Positive Voltage	I	_
11		L-GN	1391	Left Front Door Lock Relay Control	III	_
12	0.35	YE	5187	Right Trailer Turn Signal Lamp Control	I	_
13	0.35	OG	5186	Left Trailer Turn Signal Lamp Control	1	_
14		_	_	Not Occupied	_	_
15	0.35	OG	2268	Windshield Washer Relay Control	I	_
16	0.35	TN / WH	1969	Headlamp High Beam Relay Control	I	_
17	0.5	PK / BK	109	Hood Ajar Switch Signal	I	_
18	_	_	_	Not Occupied	_	_
19	0.5	D-BU	5985	Accessory Wake-Up Serial Data	I	_

K9 Body Control Module X4 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20		L-BU	1344	Rear Compartment Lid Unlatch Relay Control	III	_
21	0.35	YE	5199	Run/Crank Relay Coil Control	I	_
22	_	_	_	Not Occupied	_	_
23	0.35	PU	544	DRL Relay Control	I	_
24	_	L-BU	244	Passenger Door Lock Switch Lock Control	III	_
25	_	_	_	Not Occupied	_	_

K9 Body Control Module X5



1664500

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15480179 Service Connector: 88988837

Description: 25-Way F HIT Series(BN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575870	J-35616-64B (L-BU)	J-38125-12A
II	13575871	J-35616-35 (VT)	J-38125-12A
III	Not required	No Tool Required	No Tool Required

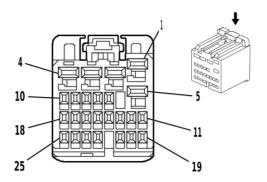
K9 Body Control Module X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	YE	618	Left Rear Turn Signal Lamp Control	II	_
2	1	D-GN	619	Right Rear Turn Signal Lamp Control	II	_
3	_	_	_	Not Occupied	_	_
4	0.8	L-BU / WH	1314	Left Front Turn Signal Lamp Control	II	
5	0.5	WH	5065	Stop Lamp Relay Coil Control	II	_
6	0.35	WH / D- BU	6311	Cruise/ETC/TCC Brake Signal	I	_
7	_	_	_	Not Occupied	_	_
8	0.5	PK	5076	Current Sensor Voltage Reference	I	_
9	0.5	WH	5075	Current Sensor Signal	I	_
10	0.5	BN	5077	Current Sensor Low Reference	1	_
11	0.35	YE	43	Accessory Ignition Voltage	1	_
12	_	_	-	Not Occupied	_	_
13	0.35	OG	300	Run Ignition 3 Voltage	1	
14	0.5	L-GN	24	Backup Lamp Control	1	
15	0.5	PU	5531	Hood Closed Switch Signal	1	
16	0.35	L-BU	1134	Park Brake Switch Signal	I	_
17	_	_	_	Not Occupied	_	_
18	0.35	TN	28	Horn Relay Control	I	_
19	_	YE	5810	Park Enable Signal	III	

K9 Body Control Module X5 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20	0.35	GY	91	Windshield Wiper Motor Relay Coil Control	I	_
21	0.35	TN	860	Windshield Wiper Switch High Signal	I	_
22	_	_	_	Not Occupied	_	_
23	0.35	PK / WH	1970	Headlamp Low Beam Relay Control	I	_
24	0.35	D-BU	45	Park Lamp Relay Control	I	_
25	_	_	_	Not Occupied	_	_

K9 Body Control Module X6



1664502

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15482793 Service Connector: 88988842

Description: 25-Way F HIT Series(PK)

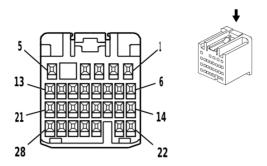
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	13575870	J-35616-64B (L-BU)	J-38125-12A	
II	13575871	J-35616-35 (VT)	J-38125-12A	

K9 Body Control Module X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	_	_	Not Occupied	_	_
2	0.8	L-BU	1320	Center High Mounted Stop Lamp Control 2	II	_
3 - 7	_	_	_	Not Occupied	_	_
8	0.35	TN / WH	746	Right Front Door Ajar Switch Signal	I	_
9	0.35	D-BU	245	Passenger Door Lock Switch Unlock Control	I	_
10	0.35	GY / BK	745	Left Front Door Ajar Switch Signal	I	_
11	_	_	_	Not Occupied	_	_
12	0.35	PK / BK	1303	Liftgate Ajar Switch Signal 1	I	_
13	_	_	_	Not Occupied	_	_
14	0.35	YE / BK	1181	Right Rear Door Open Switch Signal	I	_
15	_	_	_	Not Occupied	_	_
16	0.35	L-GN	1177	Right Front Door Open Switch Signal	I	_
17	_	_	_	Not Occupied	_	_
18	0.35	L-BU	244	Passenger Door Lock Switch Lock Control	I	_
19 - 21	_	_	_	Not Occupied		<u>—</u>
22	0.35	L-GN	5926	Rear Body Opening Open Switch Signal	I	_
23 - 25		_	_	Not Occupied	_	_

K9 Body Control Module X7



1664505

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15466053 Service Connector: 88988806

Description: 28-Way F HIT Series(GY)

Terminal Part Information

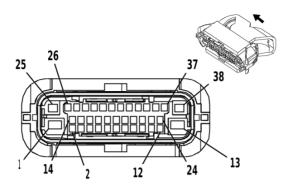
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	13575870	J-35616-18 (BK)	J-38125-553		

K9 Body Control Module X7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	_	_	Not Occupied	_	_
2	0.5	YE	356	Driver Door Lock Relay Unlock Control	I	_
3 - 5	_	_	_	Not Occupied	_	_
6	0.5	YE	356	Driver Door Lock Relay Unlock Control	I	_
7	0.5	L-BU	244	Passenger Door Lock Switch Lock Control	I	_
8	_	_	_	Not Occupied	_	_
9	0.5	L-BU	244	Passenger Door Lock Switch Lock Control	I	_
10	_	_	_	Not Occupied	_	_
11	0.5	OG / BK	781	Driver Door Lock Switch Unlock Signal	I	_
12	0.5	PK / BK	780	Driver Door Lock Switch Lock Signal	I	_
13 - 22	_	_	_	Not Occupied	_	_
23	0.5	TN	126	Left Front Door Open Switch Signal	I	_
24	0.5	L-GN	66	A/C Request Signal	I	_
25 - 28		_	_	Not Occupied	_	_

6-188

K17 Electronic Brake Control Module



3638282

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 13655518

Service Connector: Service by Harness - See Part Catalog

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	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	

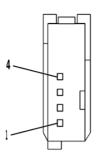
K17 Electronic Brake Control Module

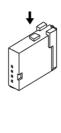
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	5	RD / YE	442	Battery Positive Voltage	III	_
2	_	_	_	Not Occupied	_	_
3	0.5	GY / YE	7128	Right Rear Wheel Speed Sensor Control	I	_
4	0.5	VT	882	Right Rear Wheel Speed Sensor Signal	I	_
5	0.5	D-BU / YE	6105	High Speed GMLAN Serial Data [+] 2	I	_
6	0.5	WH	6106	High Speed GMLAN Serial Data [-] 2	I	_
7	_	_	_	Not Occupied	_	_
8	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	I	_
9	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	_
10	0.5	GY / BN	7065	Right Front Wheel Speed Sensor Control	I	_
11	0.5	YE	872	Right Front Wheel Speed Sensor Signal	I	_
12	_	_	_	Not Occupied		_
13	5	BK	2150	Ground	III	_
14 - 16	_	_	_	Not Occupied	_	_
17	0.5	L-GN / BN	2087	Multi-axis Acceleration Sensor Supply Voltage	ı	_
18 - 19	_	_	_	Not Occupied	T - 1	_
20	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	I	
21	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	_
22 - 24	_			Not Occupied		_

K17 Electronic Brake Control Module (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
25	2.5	RD / VT	1640	Battery Positive Voltage	II	_
26 - 27		_	_	Not Occupied	_	
28	0.5	WH / D- BU	5986	Serial Data Communication Enable	Ι	
29	0.5	GY / BK	7127	Left Rear Wheel Speed Sensor Control	I	
30	0.5	D-BU	884	Left Rear Wheel Speed Sensor Signal	I	_
31 - 34	_	_	_	Not Occupied	_	_
35	0.5	GY / WH	7064	Left Front Wheel Speed Sensor Control	I	_
36	0.5	GY	830	Left Front Wheel Speed Sensor Signal	I	_
37	_	_	_	Not Occupied	_	
38	2.5	BK	2150	Ground	II	_

K18 Compass Module





2831061

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 13820711 Service Connector: 19300398

Description: 4-Way F 0.64 Series(BK)

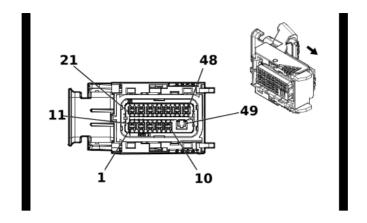
Terminal Part Information

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

K18 Compass Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN	441	Run Ignition 3 Voltage		_
2	0.5	BK / WH	351	Signal Ground	ĺ	_
3	0.35	D-GN	6134	Body Control Module LIN Bus 3	I	_
4	_	_	_	Not Occupied	_	

K20 Engine Control Module X1 (L8T)



5663663

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 35500079 Service Connector: 19368142

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)

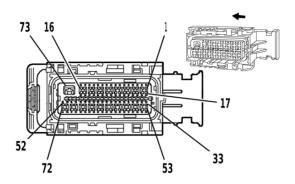
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN / WH	492	Mass Air Flow Sensor Signal	II	_
2	_	_	_	Not Occupied	_	_
3	0.5	WH	4499	High Speed GMLAN Serial Data [-] 7	II	
4 - 5	_	_	_	Not Occupied	_	
6	0.5	WH / D- BU	6311	Cruise/ETC/TCC Brake Signal	II	
7	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	II	_
8	0.5	BN / WH	419	Check Engine Indicator Control	II	_
9	0.5	YE	5991	Powertrain Relay Coil Control	II	_
10 - 11	_	_	_	Not Occupied	_	_
12	0.5	D-BU / GY	636	Ambient Air Temperature Sensor Signal	II	_
13	0.5	D-BU / BN	4498	High Speed GMLAN Serial Data [+] 7	II	_
14	0.5	WH / L- GN	5380	Brake Position Sensor Signal	II	_
15	_	_	_	Not Occupied	_	_
16	0.5	WH / GY	1786	Transmission Park/Neutral Signal 1	II	
17	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	II	
18	0.5	WH / GY	459	A/C Compressor Clutch Relay Control	II	
19 - 20	_	_	_	Not Occupied	_	_

6-192 Electrical Component and Inline Harness Connector End Views

K20 Engine Control Module X1 (L8T) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21	0.5	L-GN / D-BU	428	EVAP Canister Purge Solenoid Control	II	_
22	_	_		Not Occupied	_	
23	0.5	BK / L- GN	580	Engine Control Sensors Low Reference 2	II	-
24	0.5	BK / D- BU	1271	Accelerator Pedal Position Low Reference 1	П	_
25 - 27	_	_	_	Not Occupied	_	_
28	0.5	BN / L- GN	1174	Oil Level Switch Signal	П	_
29	_	_	_	Not Occupied	_	_
30	0.5	BK / VT	1272	Accelerator Pedal Position Low Reference 2	II	_
31	_	_	_	Not Occupied	_	_
32	0.75	VT / GY	1039	Run/Crank Ignition 1 Voltage	II	_
33	0.5	VT / YE	5985	Accessory Wake-Up Serial Data	II	_
34	0.5	RD / WH	140	Battery Positive Voltage	II	_
35	_	_	_	Not Occupied	_	_
36	0.5	YE / BK	625	Starter Enable Relay Control	II	_
37	0.5	L-GN / GY	465	Fuel Pump Primary Relay Control	II	_
38	0.5	WH / RD	1164	Accelerator Pedal Position 5V Reference 1	II	_
39	0.5	YE / WH	1161	Accelerator Pedal Position Signal 1	II	_
40	0.5	YE / BN	331	Oil Pressure Sensor Signal	II	_
41	0.5	L-GN	380	A/C Refrigerant Pressure Sensor Signal	II	_
42 - 43	_	_	_	Not Occupied	_	_
44	0.5	L-GN / WH	1162	Accelerator Pedal Position Signal 2	II	_
45	0.5	BN / RD	1274	Accelerator Pedal Position 5V Reference 2	II	_
46	_	_	_	Not Occupied	_	_
47	0.5	VT / L- GN	439	Run/Crank Ignition 1 Voltage	II	_
48	0.75	VT / D- BU	5291	Powertrain Main Relay Fused Supply Voltage 2	II	_
49	2.5	VT / D- BU	5290	Powertrain Main Relay Fused Supply Voltage 1	I	_

K20 Engine Control Module X2 (L8T)



1673472

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 35386331 Service Connector: 19333090

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	19354746	J-35616-64B (L-BU)	J-38125-215A
II	19368324	J-35616-35 (VT)	J-38125-11A

K20 Engine Control Module X2 (L8T)

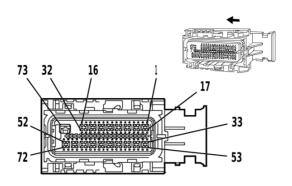
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN / YE	3212	HO2S Heater Low Control Bank 2 Sensor 1	ı	_
2	_	_	_	Not Occupied	_	_
3	0.5	BK / YE	548	Engine Control Sensors Low Reference 1	I	
4 - 6	_	_	_	Not Occupied	_	
7	0.5	L-GN / WH	4622	Engine Control Module LIN Bus 2	I	
8 - 9	_	_	_	Not Occupied	_	_
10	0.5	VT / GY	3110	HO2S High Signal Bank 1 Sensor 1	I	_
11	0.5	WH / BK	3111	HO2S Low Signal Bank 1 Sensor 1	l	
12	0.5	YE / D- BU	2124	Ignition Control 4	I	1
13	0.5	BN / D- BU	2126	Ignition Control 6	I	
14 - 15	_	_	_	Not Occupied	_	_
16	0.75	VT / D- BU	5291	Powertrain Main Relay Fused Supply Voltage 2	I	_
17	0.5	GY / WH	3113	HO2S Heater Low Control Bank 1 Sensor 1	I	_
18 - 25		_	_	Not Occupied	_	_
26	0.5	VT / WH	3210	HO2S High Signal Bank 2 Sensor 1		
27	0.5	YE / WH	3211	HO2S Low Signal Bank 2 Sensor 1	I	
28	0.5	L-GN / D-BU	2123	Ignition Control 3	I	_

6-194 Electrical Component and Inline Harness Connector End Views

K20 Engine Control Module X2 (L8T) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
29	0.5	D-BU / GY	2125	Ignition Control 5	I	_
30	0.5	BK / GY	2130	Ignition Control Low Reference Bank 2	I	_
31 - 32	_	_	_	Not Occupied	_	_
33	0.5	WH / BN	3223	HO2S Heater Low Control Bank 2 Sensor 2	I	_
34	_	_	_	Not Occupied	_	
35	0.5	D-BU	179	Engine Oil Pump Control	I	_
36	_	_	_	Not Occupied	_	_
37	0.5	VT / D- BU	5293	Powertrain Main Relay Fused Supply Voltage 4	I	_
38	_	_	_	Not Occupied	_	_
39	0.5	WH / RD	480	Engine Control Vehicle Sensors 5 Volt Reference 1	I	_
40 - 45	_	_	_	Not Occupied	_	_
46	0.5	YE / D- BU	3221	HO2S Low Signal Bank 2 Sensor 2	I	_
47	0.5	VT / L- GN	3220	HO2S High Signal Bank 2 Sensor 2	I	_
48 - 49	_	_	_	Not Occupied	_	
50	0.75	BK / GY	2303	Knock Sensor Low Reference 2	I	_
51	0.75	BK / YE	1716	Knock Sensor Low Reference 1	I	_
52	0.5	BN / WH	582	Throttle Actuator Close Control	I	_
53	0.5	GY / WH	3122	HO2S Heater Low Control Bank 1 Sensor 2	ĺ	_
54 - 58				Not Occupied	_	_
59	0.5	D-BU / RD	460	Engine Control Sensors 5 Volt Reference 1	1	_
60 - 65	_	_	_	Not Occupied	_	_
66	0.5	WH / YE	3121	HO2S Low Signal Bank 1 Sensor 2	I	_
67	0.5	VT / D- BU	3120	HO2S High Signal Bank 1 Sensor 2	I	
68 - 69	_	_	_	Not Occupied	_	_
70	0.75	WH / GY	1876	Knock Sensor 2 Signal	I	_
71	0.75	VT / GY	496	Knock Sensor 1 Signal	I	_
72	0.5	YE	581	Throttle Actuator Open Control	I	
73	3	BK / WH	1551	Signal Ground	II	

K20 Engine Control Module X3 (L8T)



1650395

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 35505841 Service Connector: 19333091

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	19354746	J-35616-64B (L-BU)	J-38125-215A
II	19368324	J-35616-35 (VT)	J-38125-11A

K20 Engine Control Module X3 (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	_	_	_	Not Occupied	_	_
5	0.5	VT / BN	5284	Intake Camshaft Position Actuator Solenoid Valve 1	I	_
6	0.5	VT / L- GN	4320	Powertrain Sensor Bus Enable	I	_
7		_	_	Not Occupied	_	
8	0.5	YE / VT	5275	Intake Camshaft Position Sensor 1	I	_
9	0.5	GY / D- BU	5300	Intake Camshaft Position Sensor 1 Voltage Reference	I	_
10	0.5	L-GN	6271	Crankshaft Position Sensor Signal	I	_
11	_	_	_	Not Occupied	_	_
12	0.5	D-BU / WH	2122	Ignition Control 2	I	_
13	0.5	VT / WH	2128	Ignition Control 8	I	_
14	0.5	D-BU / WH	225	Generator Turn On Signal	I	_
15	_	_	_	Not Occupied	_	_
16	0.75	YE	7301	High Pressure Fuel Pump High Control	I	_
17 - 18	_	_	_	Not Occupied	_	_
19	0.5	BN / VT	6399	Replicated Transmission Output Speed Signal	I	
20	_	_	_	Not Occupied	_	_
21	0.5	BK / BN	6753	Camshaft Position Actuator Solenoid Valve W Low Reference	I	_

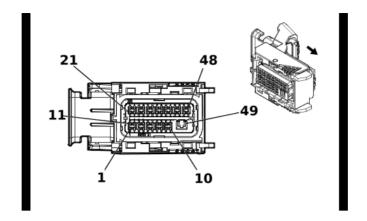
K20 Engine Control Module X3 (L8T) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
22 - 23	_	_		Not Occupied		_
24	0.5	BK / L- GN	5301	Intake Camshaft Position Sensor Low Reference	I	_
25	0.5	VT / D- BU	6270	Crankshaft Position Sensor Voltage	1	_
26	0.5	BK / VT	6272	Crankshaft Position Sensor Low Reference	I	_
27	_	_	_	Not Occupied		_
28	0.5	L-GN / GY	2127	Ignition Control 7	1	_
29	0.5	D-BU / VT	2121	Ignition Control 1	1	_
30	0.5	BK / D- BU	2129	Ignition Control Low Reference Bank 1	I	_
31	_	_		Not Occupied		_
32	0.75	VT / BK	7300	High Pressure Fuel Pump Low Control	1	_
33 - 35	_	_	_	Not Occupied	_	-
36	0.5	BK / BN	2752	Throttle Position Sensor Low Reference	I	_
37	0.5	BK / L- GN	469	Manifold Absolute Pressure Sensor Low Reference	1	_
38 - 39	_	_		Not Occupied		_
40	0.5	BN / D- BU	357	Oil Temperature Sensor Signal	I	_
41 - 42	_	_		Not Occupied		_
43	0.5	BK / GY	626	Engine Control Vehicle Sensors Low Reference	I	_
44	0.75	VT / BK	1239	Run/Crank Ignition 1 Voltage	I	_
45	0.75	L-GN	4803	Direct Fuel Injector High Voltage Control Cylinder 3	I	_
46	0.75	GY / D- BU	4804	Direct Fuel Injector High Voltage Control Cylinder 4	Ţ	_
47	0.75	WH / L- GN	4805	Direct Fuel Injector High Voltage Control Cylinder 5	I	_
48	0.75	VT / L- GN	4806	Direct Fuel Injector High Voltage Control Cylinder 6	Ι	_
49	0.75	D-BU	4802	Direct Fuel Injector High Voltage Control Cylinder 2	_	_
50	0.75	YE / GY	4807	Direct Fuel Injector High Voltage Control Cylinder 7	_	_
51	0.75	GY	4808	Direct Fuel Injector High Voltage Control Cylinder 8	I	_
52	0.75	BN	4801	Direct Fuel Injector High Voltage Control Cylinder 1	I	_
53 - 54	_	_	_	Not Occupied	_	_
55	0.5	BN / RD	2701	Throttle Position Sensor 5V Reference	Ι	
56	0.5	D-BU / WH	3630	Throttle Position Sensor SENT 1 Signal	1	_
57	0.5	GY / RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	_
58	0.5	L-GN / WH	432	Manifold Absolute Pressure Sensor Signal	I	_
59 - 60				Not Occupied		
61	0.5	D-BU	410	Engine Coolant Temperature Sensor Signal	I	

K20 Engine Control Module X3 (L8T) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
62	_	_	_	Not Occupied	_	_
63	0.5	D-BU / WH	2918	Fuel Rail Pressure Sensor Signal	I	
64	0.5	GY	23	Generator Field Duty Cycle Signal	I	_
65	0.75	L-GN / GY	4903	Direct Fuel Injector High Voltage Supply Cylinder 3	I	_
66	0.75	D-BU / WH	4904	Direct Fuel Injector High Voltage Supply Cylinder 4	I	_
67	0.75	L-GN / WH	4905	Direct Fuel Injector High Voltage Supply Cylinder 5	I	_
68	0.75	VT / GY	4906	Direct Fuel Injector High Voltage Supply Cylinder 6	I	_
69	0.75	D-BU / GY	4902	Direct Fuel Injector High Voltage Supply Cylinder 2	I	
70	0.75	WH / YE	4907	Direct Fuel Injector High Voltage Supply Cylinder 7	I	
71	0.75	GY / WH	4908	Direct Fuel Injector High Voltage Supply Cylinder 8	I	
72	0.75	BN / WH	4901	Direct Fuel Injector High Voltage Supply Cylinder 1	I	_
73	3	BK / WH	1551	Signal Ground	II	_

K20 Engine Control Module X1 (LV1)



5663663

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 35500079 Service Connector: 19368142

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 (LV1)

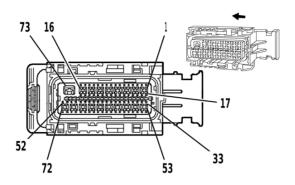
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN / WH	492	Mass Air Flow Sensor Signal	II	_
2	_	_	-	Not Occupied	_	
3	0.5	WH	4499	High Speed GMLAN Serial Data [-] 7	II	
4 - 5	_	_	_	Not Occupied	_	
6	0.5	WH / D- BU	6311	Cruise/ETC/TCC Brake Signal	II	
7	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	II	_
8	0.5	BN / WH	419	Check Engine Indicator Control	II	_
9	0.5	YE	5991	Powertrain Relay Coil Control	II	_
10 - 11	_	_	_	Not Occupied	_	_
12	0.5	D-BU / GY	636	Ambient Air Temperature Sensor Signal	II	
13	0.5	D-BU / BN	4498	High Speed GMLAN Serial Data [+] 7	II	_
14	0.5	WH / L- GN	5380	Brake Position Sensor Signal	II	_
15 - 16	_	_		Not Occupied	_	_
17	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	II	
18	0.5	WH / GY	459	A/C Compressor Clutch Relay Control	II	_
19 - 20	_	_	_	Not Occupied	_	_
21	0.5	L-GN / D-BU	428	EVAP Canister Purge Solenoid Control	II	_

K20 Engine Control Module X1 (LV1) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
22	_	_	_	Not Occupied	_	_
23	0.5	BK / L- GN	580	Engine Control Sensors Low Reference 2	II	
24	0.5	BK / D- BU	1271	Accelerator Pedal Position Low Reference 1	II	
25 - 26	_	_		Not Occupied	_	_
27	0.5	L-GN / YE	3337	Transmission Internal Mode Switch Mode Control Y	II	
28	0.5	BN / L- GN	1174	Oil Level Switch Signal	II	
29	_	_	_	Not Occupied	_	_
30	0.5	BK / VT	1272	Accelerator Pedal Position Low Reference 2	II	_
31	_	_	_	Not Occupied	_	_
32	0.75	VT / GY	1039	Run/Crank Ignition 1 Voltage	II	_
33	0.5	VT / YE	5985	Accessory Wake-Up Serial Data	II	_
34	0.5	RD / WH	140	Battery Positive Voltage	II	_
35	_	_	_	Not Occupied	_	_
36	0.5	YE / BK	625	Starter Enable Relay Control	II	_
37	0.5	L-GN / GY	465	Fuel Pump Primary Relay Control	II	_
38	0.5	WH / RD	1164	Accelerator Pedal Position 5V Reference 1	II	_
39	0.5	YE / WH	1161	Accelerator Pedal Position Signal 1	II	_
40	0.5	YE / BN	331	Oil Pressure Sensor Signal	II	_
41	0.5	L-GN	380	A/C Refrigerant Pressure Sensor Signal	II	_
42 - 43	_	_	_	Not Occupied	_	_
44	0.5	L-GN / WH	1162	Accelerator Pedal Position Signal 2	II	_
45	0.5	BN / RD	1274	Accelerator Pedal Position 5V Reference 2	II	_
46	_	_	_	Not Occupied	_	_
47	0.5	VT / L- GN	439	Run/Crank Ignition 1 Voltage	II	_
48	0.75	VT / D- BU	5291	Powertrain Main Relay Fused Supply Voltage 2	II	_
49	2.5	VT / D- BU	5290	Powertrain Main Relay Fused Supply Voltage 1	I	_

6-200

K20 Engine Control Module X2 (LV1)



1673472

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 35386331 Service Connector: 19333090

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	19354746	J-35616-64B (L-BU)	J-38125-215A
II	19368324	J-35616-35 (VT)	J-38125-11A

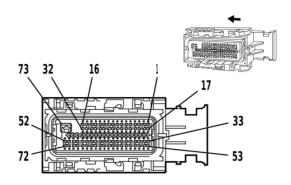
K20 Engine Control Module X2 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN / YE	3212	HO2S Heater Low Control Bank 2 Sensor 1	I	_
2	_	_	_	Not Occupied	_	_
3	0.5	BK / YE	548	Engine Control Sensors Low Reference 1	I	_
4 - 6	_	_	_	Not Occupied	_	_
7	0.5	L-GN / WH	4622	Engine Control Module LIN Bus 2	I	_
8 - 9	_	_	_	Not Occupied	_	_
10	0.5	VT / GY	3110	HO2S High Signal Bank 1 Sensor 1	I	_
11	0.5	WH / BK	3111	HO2S Low Signal Bank 1 Sensor 1	I	_
12	_	_	_	Not Occupied	_	_
13	0.5	L-GN / D-BU	2123	Ignition Control 3	I	_
14 - 15	_	_	_	Not Occupied	_	_
16	0.75	VT / D- BU	5291	Powertrain Main Relay Fused Supply Voltage 2	I	_
17	0.5	GY / WH	3113	HO2S Heater Low Control Bank 1 Sensor 1	I	_
18 - 25	_	_	_	Not Occupied	_	_
26	0.5	VT / WH	3210	HO2S High Signal Bank 2 Sensor 1	I	_
27	0.5	YE / WH	3211	HO2S Low Signal Bank 2 Sensor 1	I	_
28		_		Not Occupied	_	_
29	0.5	D-BU / WH	2122	Ignition Control 2	I	<u> </u>

K20 Engine Control Module X2 (LV1) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
30	0.5	BK / GY	2130	Ignition Control Low Reference Bank 2	I	_
31 - 32	_	_	_	Not Occupied	_	_
33	0.5	WH / BN	3223	HO2S Heater Low Control Bank 2 Sensor 2	I	_
34 - 36	_	_	_	Not Occupied	_	_
37	0.5	VT / D- BU	5293	Powertrain Main Relay Fused Supply Voltage 4	I	_
38	_	_	_	Not Occupied	_	_
39	0.5	WH / RD	480	Engine Control Vehicle Sensors 5 Volt Reference 1	I	_
40 - 45	_	_	_	Not Occupied	_	_
46	0.5	YE / D- BU	3221	HO2S Low Signal Bank 2 Sensor 2	I	_
47	0.5	VT / L- GN	3220	HO2S High Signal Bank 2 Sensor 2	1	_
48 - 49	_	_	_	Not Occupied	_	_
50	0.75	BK / GY	2303	Knock Sensor Low Reference 2	I	_
51	0.75	BK / YE	1716	Knock Sensor Low Reference 1	I	_
52	0.5	BN / WH	582	Throttle Actuator Close Control	1	_
53	0.5	GY / WH	3122	HO2S Heater Low Control Bank 1 Sensor 2	1	_
54 - 58		_		Not Occupied	_	_
59	0.5	D-BU / RD	460	Engine Control Sensors 5 Volt Reference 1	I	_
60 - 65	_	_	_	Not Occupied	_	_
66	0.5	WH / YE	3121	HO2S Low Signal Bank 1 Sensor 2	I	_
67	0.5	VT / D- BU	3120	HO2S High Signal Bank 1 Sensor 2	I	_
68 - 69	_		_	Not Occupied		
70	0.75	WH / GY	1876	Knock Sensor 2 Signal	I	
71	0.75	VT / GY	496	Knock Sensor 1 Signal	I	_
72	0.5	YE	581	Throttle Actuator Open Control	I	_
73	3	BK / WH	1551	Signal Ground	II	

K20 Engine Control Module X3 (LV1)



1650395

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 35505841 Service Connector: 19333091

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	19354746	J-35616-64B (L-BU)	J-38125-215A		
II	19368324	J-35616-35 (VT)	J-38125-11A		

K20 Engine Control Module X3 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	_	_	_	Not Occupied	_	_
5	0.5	VT / BN	5284	Intake Camshaft Position Actuator Solenoid Valve 1	I	_
6	0.5	VT / L- GN	4320	Powertrain Sensor Bus Enable	I	_
7			_	Not Occupied	_	_
8	0.5	YE / VT	5275	Intake Camshaft Position Sensor 1	I	_
9	0.5	GY / D- BU	5300	Intake Camshaft Position Sensor 1 Voltage Reference	I	_
10	0.5	L-GN	6271	Crankshaft Position Sensor Signal	I	_
11				Not Occupied	_	_
12	0.5	YE / D- BU	2124	Ignition Control 4	I	_
13	0.5	BN / D- BU	2126	Ignition Control 6	I	_
14	0.5	D-BU / WH	225	Generator Turn On Signal	I	_
15				Not Occupied	_	_
16	0.75	YE	7301	High Pressure Fuel Pump High Control	I	_
17 - 20		_	_	Not Occupied	_	_
21	0.5	BK / BN	6753	Camshaft Position Actuator Solenoid Valve W Low Reference	I	_
22 - 23	_	_	_	Not Occupied	_	_

K20 Engine Control Module X3 (LV1) (cont'd)

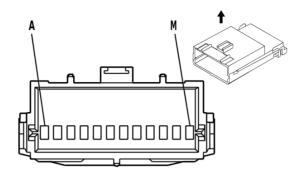
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
24	0.5	BK / L- GN	5301	Intake Camshaft Position Sensor Low Reference	1	_
25	0.5	VT / D- BU	6270	Crankshaft Position Sensor Voltage	Ţ	_
26	0.5	BK / VT	6272	Crankshaft Position Sensor Low Reference	I	_
27	_	_	_	Not Occupied	_	_
28	0.5	D-BU / GY	2125	Ignition Control 5	_	
29	0.5	D-BU / VT	2121	Ignition Control 1	-	
30	0.5	BK / D- BU	2129	Ignition Control Low Reference Bank 1	-	
31	_	_		Not Occupied		
32	0.75	VT / BK	7300	High Pressure Fuel Pump Low Control	1	
33 - 35	_	_		Not Occupied		
36	0.5	BK / BN	2752	Throttle Position Sensor Low Reference	1	
37	0.5	BK / L- GN	469	Manifold Absolute Pressure Sensor Low Reference	Ι	
38 - 42	_	_	_	Not Occupied	_	_
43	0.5	BK / GY	626	Engine Control Vehicle Sensors Low Reference	I	_
44	0.75	VT / BK	1239	Run/Crank Ignition 1 Voltage	I	_
45 - 46	_	_	_	Not Occupied	_	_
47	0.75	D-BU	4802	Direct Fuel Injector High Voltage Control Cylinder 2	I	_
48	0.75	L-GN	4803	Direct Fuel Injector High Voltage Control Cylinder 3	I	_
49	0.75	GY / D- BU	4804	Direct Fuel Injector High Voltage Control Cylinder 4	I	_
50	0.75	WH / L- GN	4805	Direct Fuel Injector High Voltage Control Cylinder 5	I	_
51	0.75	VT / L- GN	4806	Direct Fuel Injector High Voltage Control Cylinder 6	I	_
52	0.75	BN	4801	Direct Fuel Injector High Voltage Control Cylinder 1	I	_
53 - 54	_	_		Not Occupied		
55	0.5	BN / RD	2701	Throttle Position Sensor 5V Reference	1	
56	0.5	D-BU / WH	3630	Throttle Position Sensor SENT 1 Signal	Ι	_
57	0.5	GY / RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	
58	0.5	L-GN / WH	432	Manifold Absolute Pressure Sensor Signal	I	
59 - 60	_	_	_	Not Occupied	_	
61	0.5	D-BU	410	Engine Coolant Temperature Sensor Signal	I	_
62	_	_	_	Not Occupied	_	_
63	0.5	D-BU / WH	2918	Fuel Rail Pressure Sensor Signal	I	_
64	0.5	GY	23	Generator Field Duty Cycle Signal	I	
65 - 66	_	_	_	Not Occupied	_	_

6-204 Electrical Component and Inline Harness Connector End Views

K20 Engine Control Module X3 (LV1) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
67	0.75	D-BU / GY	4902	Direct Fuel Injector High Voltage Supply Cylinder 2	I	_
68	0.75	L-GN / GY	4903	Direct Fuel Injector High Voltage Supply Cylinder 3	I	_
69	0.75	D-BU / WH	4904	Direct Fuel Injector High Voltage Supply Cylinder 4	I	_
70	0.75	L-GN / WH	4905	Direct Fuel Injector High Voltage Supply Cylinder 5	I	_
71	0.75	VT / GY	4906	Direct Fuel Injector High Voltage Supply Cylinder 6	I	_
72	0.75	BN / WH	4901	Direct Fuel Injector High Voltage Supply Cylinder 1	I	_
73	3	BK / WH	1551	Signal Ground	II	_

K33A HVAC Control Module - Auxiliary



328486

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 12040747 Service Connector: 12101938

Description: 12-Way F P/C Edgeboard Standard Series(BK)

Terminal Part Information

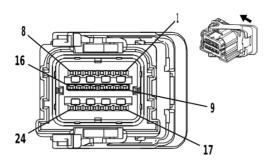
Terminal Type ID Terminated Lead		Diagnostic Test Probe	Terminal Removal Tool		
I	19330178	J-35616-4A (PU)	J-38125-12A		

K33A HVAC Control Module - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.35	PU	5260	Auxiliary HVAC Front Temperature Signal	I	_
В	0.35	OG	2775	Rear Air Temperature Door Actuator Control	I	_
С	0.5	BN	5263	Auxiliary HVAC Rear Temperature Signal	I	_
D	0.5	PU / WH	5264	Auxiliary HVAC Rear Mode Signal	I	_
Е	0.35	TN	5261	Auxiliary HVAC Front Mode Signal	I	_
F	0.35	GY	2599	Rear Mode Door Actuator Signal	I	_
G	_	_	_	Not Occupied	_	_
Н	0.35	BK	1850	Ground	I	_
J	0.35	BN	341	Run Ignition 3 Voltage	I	_
K	_	_	_	Not Occupied	_	_
L	0.5	PK / BK	5265	Auxiliary HVAC Rear Control Signal	I	_
М	0.35	YE	5262	Auxiliary HVAC Rear Controls Enable Signal	Ī	_

6-206

K36 Inflatable Restraint Sensing and Diagnostic Module X1



3240106

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 13859806 Service Connector: 13579314

Description: 24-Way F 0.64 Series, Sealed(YE)

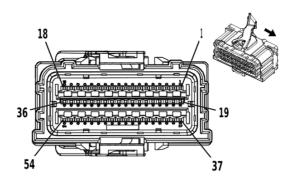
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	19328872	J-35616-64B (L-BU)	J-38125-11A		

K36 Inflatable Restraint Sensing and Diagnostic Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	_	_	_	Not Occupied	_	_
3	0.5	BN	3020	Steering Wheel Air Bag Stage 1 Low Control	I	_
4	0.5	TN	3021	Steering Wheel Air Bag Stage 1 High Control	I	_
5	0.5	YE	3025	Passenger Instrument Panel Air Bag Stage 1 High Control	I	_
6	0.5	OG	3024	Passenger Instrument Panel Air Bag Stage 1 Low Control	I	_
7 - 8	_	_	_	Not Occupied	_	_
9	0.5	RD / WH	3440	Battery Positive Voltage	I	_
10 - 12	_	_	_	Not Occupied	_	_
13	0.5	PK	353	Passenger Supplemental Inflatable Restraint Suppression Indicator Control	I	_
14	0.5	TN / BK	371	Passenger Supplemental Inflatable Restraint Disable Switch Signal	I	_
15	0.35	D-GN	5060	Low Speed GMLAN Serial Data	- 1	_
16	_	_	_	Not Occupied	_	_
17	0.35	PK	1139	Run/Crank Ignition 1 Voltage	I	
18	_	_	_	Not Occupied		_
19	0.5	BK / WH	1751	Signal Ground	I	_
20 - 24	_	_	_	Not Occupied	_	_

K36 Inflatable Restraint Sensing and Diagnostic Module X2



2817420

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 13914358 Service Connector: 19303770

Description: 54-Way F 0.64 Series, Sealed(YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	19328872	J-35616-64B (L-BU)	J-38125-11A		
II	Not required	No Tool Required	No Tool Required		

K36 Inflatable Restraint Sensing and Diagnostic Module X2

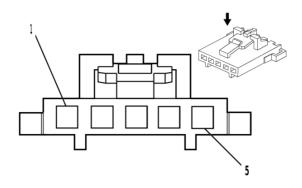
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 10	_	_	_	Not Occupied	_	_
11	0.5	TN / BK	7016	Right Rear Roof Rail Air Bag Low Control	I	_
12	0.5	L-BU	7015	Right Rear Roof Rail Air Bag High Control	I	_
13	0.5	BN	2137	Left Front Seat Side Air Bag High Control	I	_
14	0.5	YE / BK	2138	Left Front Seat Side Air Bag Low Control	I	_
15	0.5	L-GN	2136	Right Front Seat Side Air Bag Low Control	I	_
16	0.5	TN / WH	2135	Right Front Seat Side Air Bag High Control	I	_
17	0.5	PU / WH	5019	Left Front Roof Rail Air Bag High Control	I	_
18	0.5	PK	5020	Left Front Roof Rail Air Bag Low Control	I	_
19	0.5	WH	2132	Left Front Side Impact Sensor Signal	I	_
20	0.5	PU / WH	6628	Left Front Side Impact Sensor Low Reference	I	_
21	0.5	WH / BK	6629	Right Front Side Impact Sensor Low Reference	I	_
22	0.5	D-GN	2134	Right Front Side Impact Sensor Signal	I	_
23 - 24	_	_	_	Not Occupied	_	_
25	0.5	D-BU / WH	6619	Front Middle Impact Discriminating Sensor Low Reference	I	_
26	0.5	BN / WH	6618	Front Middle Impact Discriminating Sensor Signal	I	
27	0.5	D-GN / WH	6620	Left Middle Side Impact Sensor Signal	I	_
28	0.5	GY / BK	6621	Left Middle Side Impact Sensor Low Reference	I	

6-208 Electrical Component and Inline Harness Connector End Views

K36 Inflatable Restraint Sensing and Diagnostic Module X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
29	0.5	L-GN / WH	6625	Right Middle Side Impact Sensor Low Reference	I	_
30	0.5	L-BU / BK	6624	Right Middle Side Impact Sensor Signal	I	_
31 - 36	_	_	_	Not Occupied	_	_
37	0.5	TN / WH	2118	Driver Seat Belt Pretensioner High Control	I	_
38	0.5	OG / BK	2119	Driver Seat Belt Pretensioner Low Control	I	_
39	0.5	OG	2117	Passenger Seat Belt Pretensioner Low Control	I	_
40	0.5	L-GN	2116	Passenger Seat Belt Pretensioner High Control	I	_
41	0.5	TN / WH	238	Driver Seat Belt Switch Signal	I	_
42	_	_	_	Not Occupied	_	_
43	0.5	PK	5057	Seat Position Switch Low Reference	I	_
44	_	L-BU	1361	Passenger Seat Belt Switch Low Reference	II	_
45	_	OG	1362	Passenger Seat Belt Switch Signal	II	_
46 - 52	_	_	_	Not Occupied	_	_
53	0.5	YE / BK	5021	Right Front Roof Rail Air Bag High Control	I	_
54	0.5	WH / BK	5022	Right Front Roof Rail Air Bag Low Control	I	_

K64 Content Theft Deterrent Control Module



1593355

Connector Part Information

Harness Type: Steering Column OEM Connector: 15383337

Service Connector: Service by Harness - See Part Catalog

Description: 5-Way F SL Series(BK)

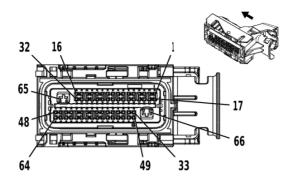
Terminal Part Information

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

K64 Content Theft Deterrent Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1		RD / WH	540	Battery Positive Voltage		
2	_	BN	4	Accessory Ignition Voltage	I	_
3	_	BK / WH	351	Signal Ground	I	_
4	_	D-GN	5060	Low Speed GMLAN Serial Data	I	_
5	_	_	_	Not Occupied	_	_

K71 Transmission Control Module (M5U)



3621452

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13965710 Service Connector: 19329822

Description: 66-Way F 0.64, 2.8 Series, Sealed(BK with BK Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13587518	J-35616-35 (VT)	J-38125-11A
II	19351723	J-35616-64B (L-BU)	J-38125-213

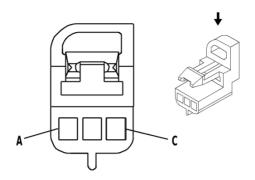
K71 Transmission Control Module (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH / D- BU	4507	Transmission Clutch H Control	II	_
2	0.5	D-BU	6401	Clutch Solenoid Valve B Control	II	
3	0.5	GN / WH	1530	Transmission Line Pressure Control Solenoid Valve Control	=	1
4 - 6		_	_	Not Occupied		
7	0.5	YE / L- GN	4170	Transmission Output Shaft Speed Sensor Circuit 9V Reference	=	
8	0.5	YE / D- BU	4171	Transmission Input Shaft Speed Sensor Circuit 9V Reference	Ш	_
9 - 12	_	_	_	Not Occupied	_	_
13	0.5	L-GN / VT	4510	Transmission Intermediate Speed Signal	Ш	_
14	0.5	GY / D- BU	6358	Output Speed Signal	II	_
15	0.5	L-GN / YE	6353	Input Speed Signal	II	_
16		_	_	Not Occupied		
17	0.5	WH	4508	Transmission Clutch G Control	II	
18	0.5	BN	6400	Clutch Solenoid Valve A Control	Ш	
19	0.5	GY	6402	Clutch Solenoid Valve C Control	II	_
20	0.5	VT / WH	422	Torque Converter Clutch Solenoid Valve Control	II	_
21	0.5	L-GN / WH	6380	Torque Converter Clutch Enable Solenoid Valve A Control	II	_

K71 Transmission Control Module (M5U) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
22	0.5	YE / BN	6210	Torque Converter Clutch Enable Solenoid Valve B Control	II	_
23 - 27	_	_	_	Not Occupied	_	_
28	0.5	BK / BN	586	Transmission Fluid Temperature Sensor Low Reference	=	_
29 - 32	_	_	_	Not Occupied	_	_
33	0.5	L-GN / GY	6387	Transmission High Side Driver 1 Control	II	_
34	_	_	_	Not Occupied	_	_
35	0.5	VT / BK	2139	Run/Crank Ignition 1 Voltage	II	_
36	_	_	_	Not Occupied	_	_
37	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	II	_
38	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	II	_
39 - 48	_	_	_	Not Occupied	_	_
49	0.75	GY / BN	6388	Transmission High Side Driver 2 Control	II	_
50	_	_	_	Not Occupied	_	_
51	0.5	VT / YE	5985	Accessory Wake-Up Serial Data	II	_
52	_	_	_	Not Occupied	_	_
53	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	II	_
54	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	II	_
55 - 62	_	_	_	Not Occupied	_	_
63	0.5	BN / WH	585	Transmission Fluid Temperature Sensor Signal	II	
64	0.5	D-BU / WH	3338	Transmission Internal Mode Switch Mode Control X	II	_
65	0.75	BK / WH	1551	Signal Ground	I	_
66	0.75	RD / L- GN	1840	Battery Positive Voltage	I	_

K71 Transmission Control Module X3 (MYD)



2334125

Connector Part Information

Harness Type: Automatic Transmission Input and Output Speed Sensor Wiring Harness

OEM Connector: 13539487

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F 150 Metri-Pack Series(BK)

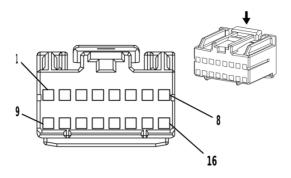
Terminal Part Information

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

K71 Transmission Control Module X3 (MYD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	_	GN	_		I	_
В	_	RD	_	_	I	_
С	_	BK	_	_	I	_

K73 Telematics Communication Interface Control Module X1



1471689

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15431362 Service Connector: 15306351

Description: 16-Way F 100A Micro-Pack Series(NA)

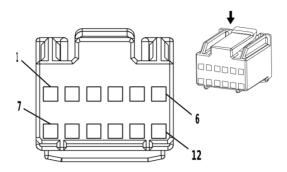
Terminal Part Information

Terminal Type ID Terminated Lead		Diagnostic Test Probe	Terminal Removal Tool	
I	13575548	J-35616-16 (L-GN)	J-38125-559	

K73 Telematics Communication Interface Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-GN	5060	Low Speed GMLAN Serial Data	I	_
2	0.8	BN / WH	2517	Telematics Switch Red LED Indicator Control	I	_
3	0.8	YE / BK	2516	Telematics Switch Green LED Indicator Control	I	_
4 - 5	_	_	_	Not Occupied	_	_
6	0.8	L-GN / BK	2515	Telematics Switch Supply Voltage	I	_
7	0.8	BK / WH	351	Signal Ground	I	_
8 - 9	_	_	_	Not Occupied	_	_
10	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	_
11	0.8	D-GN / WH	2514	Telematics Switch Signal	I	_
12	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	I	_
13 - 14		_		Not Occupied	_	_
15	0.8	RD / WH	3240	Battery Positive Voltage	I	
16		_	_	Not Occupied	_	_

K73 Telematics Communication Interface Control Module X2



1471691

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15431365 Service Connector: 88952886

Description: 12-Way F 100A Micro-Pack Series(NA)

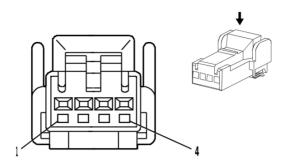
Terminal Part Information

Terminal Type ID Terminated Lead		Diagnostic Test Probe	Terminal Removal Tool	
1	13578873	J-35616-64B (L-BU)	J-38125-559	

K73 Telematics Communication Interface Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	D-BU	658	Cellular Telephone Voice Signal	I	_
2	0.8	L-BU / BK	659	Cellular Telephone Voice Low Reference	I	_
3	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	_
4	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	I	_
5 - 7	_	_	_	Not Occupied	_	_
8	8.0	Bare	1792	Low Reference	I	_
9	0.8	GY	655	Cellular Telephone Microphone Signal	I	_
10	8.0	D-GN	654	Cellular Telephone Microphone Low Reference	Ī	_
11 - 12	_	_	_	Not Occupied	_	_

K77 Remote Control Door Lock Receiver



1673483

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15462684 Service Connector: 13585474

Description: 4-Way F IL-AG5 Series(GN)

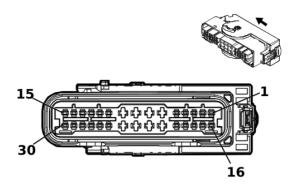
Terminal Part Information

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

K77 Remote Control Door Lock Receiver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD / WH	5340	Battery Positive Voltage	1	_
2	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	_
3	_	_	_	Not Occupied	_	_
4	0.35	BK / WH	351	Signal Ground	I	_

K111 Fuel Pump Driver Control Module



3240109

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 35373123

Service Connector: Service by Harness - See Part Catalog 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	Not required	J-35616-2A (GY)	No Tool Required	
II	Not required	J-35616-4A (PU)	No Tool Required	

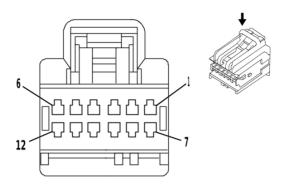
K111 Fuel Pump Driver Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 6	_	_	_	Not Occupied	_	_
7	2.5	RD / VT	1940	Battery Positive Voltage	II	_
8	2.5	GY	120	Fuel Pump Control	II	_
9	2.5	YE / GY	4137	Fuel Pump Supply Voltage Phase 2	II	_
10	0.5	YE / RD	2709	Fuel Tank Pressure Sensor 5V Reference	I	_
11	0.5	D-BU / WH	890	Fuel Tank Pressure Sensor Signal	I	_
12	0.5	BN / RD	7445	Fuel Line Pressure Sensor 5V Reference	I	_
13	0.5	D-BU / VT	1589	Primary Fuel Level Sensor Signal	I	_
14	_	_	_	Not Occupied	_	_
15	0.5	WH	4499	High Speed GMLAN Serial Data [-] 7	I	_
16	0.5	VT / L- GN	4320	Powertrain Sensor Bus Enable	1	_
17	0.5	VT	2739	Run/Crank Ignition 1 Voltage	1	_
18	0.5	L-GN / GY	465	Fuel Pump Primary Relay Control	1	_
19 - 20	_	_	_	Not Occupied	_	_
21	0.5	WH	1310	EVAP Vent Solenoid Valve Control	II	
22	2.5	BK	2150	Ground	II	_
23	0.5	BK	7444	Fuel Pump Assembly Shield Ground	II	_
24	2.5	WH / BN	4138	Fuel Pump Supply Voltage Phase 3	II	_

K111 Fuel Pump Driver Control Module (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
25	0.5	BK / BN	6284	Fuel Tank Pressure Sensor Low Reference	I	
26	0.5	D-BU / WH	7446	Fuel Pressure Sensor Signal	I	_
27	0.5	BK / YE	7447	Fuel Pressure Sensor Low Reference	I	
28	0.5	BK / L- GN	6281	Fuel Level Sensor Low Reference	I	
29		_	_	Not Occupied	_	
30	0.5	D-BU / BN	4498	High Speed GMLAN Serial Data [+] 7	I	_

K182 Parking Assist Control Module X1



1664569

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13784026 Service Connector: 13525987

Description: 12-Way F 0.64 Series(BK)

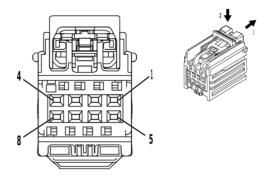
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	13575550	J-35616-64B (L-BU)	J-38125-559	

K182 Parking Assist Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD / WH	840	Battery Positive Voltage	ĺ	
2 - 5	_	_	_	Not Occupied	_	
6	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	_
7	0.5	BK / WH	351	Signal Ground	I	_
8 - 12	_	_	_	Not Occupied	_	_

K182 Parking Assist Control Module X2



4280711

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 33183559 Service Connector: 19355209

Description: 8-Way F Kaizen Series(GY)

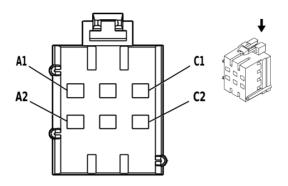
Terminal Part Information

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	0.5	YE / VT	2378	Right Rear Outer Parking Assist Sensor Signal	I	_
2	0.5	YE / WH	2377	Right Rear Middle Parking Assist Sensor Signal	I	
3	0.5	YE / D- BU	2376	Left Rear Middle Parking Assist Sensor Signal	I	_
4	0.5	BN / WH	2374	Object Sensor Voltage Reference	I	_
5	0.5	YE	2375	Left Rear Outer Parking Assist Sensor Signal	I	_
6 - 7	_	_	_	Not Occupied	_	_
8	0.5	BK / GY	2379	Object Sensor Low Reference	I	_

KR32B Blower Motor High Speed Relay - Auxiliary



309518

Connector Part Information

Harness Type: Auxiliary Heater and Air Conditioning Wiring Harness

OEM Connector: 12129715

Service Connector: Service by Harness - See Part Catalog Description: 6-Way F 280 Metri-Pack Flexlock Series(GY)

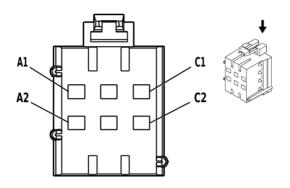
Terminal Part Information

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

KR32B Blower Motor High Speed Relay - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.35	WH	1924	Auxiliary Blower Motor High Speed Control	I	_
A2	5	YE	1172	Auxiliary Blower Motor Control	I	_
B1 - B2	_	_	_	Not Occupied	_	_
C1	5	RD / WH	1740	Battery Positive Voltage	I	_
C2	0.35	BN	341	Run Ignition 3 Voltage	I	_

KR32C Blower Motor Low Speed Relay - Auxiliary



309518

Connector Part Information

Harness Type: Auxiliary Heater and Air Conditioning Wiring Harness

OEM Connector: 12129715

Service Connector: Service by Harness - See Part Catalog Description: 6-Way F 280 Metri-Pack Flexlock Series(GY)

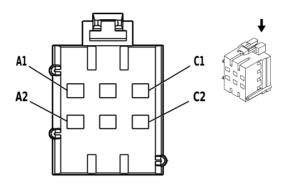
Terminal Part Information

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

KR32C Blower Motor Low Speed Relay - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.35	D-BU	1926	Auxiliary Blower Motor Low Speed Control 2	I	_
A2	3	YE	1176	Auxiliary Blower Motor Low Speed Control	I	_
B1 - B2	_	_	_	Not Occupied	_	_
C1	5	RD / WH	1740	Battery Positive Voltage	I	_
C2	0.35	BN	341	Run Ignition 3 Voltage	I	_

KR32D Blower Motor Medium Speed Relay - Auxiliary



309518

Connector Part Information

Harness Type: Auxiliary Heater and Air Conditioning Wiring Harness

OEM Connector: 12129715

Service Connector: Service by Harness - See Part Catalog Description: 6-Way F 280 Metri-Pack Flexlock Series(GY)

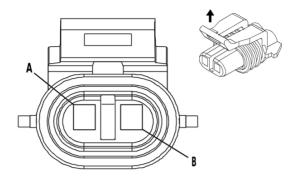
Terminal Part Information

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

KR32D Blower Motor Medium Speed Relay - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.35	OG	1925	Auxiliary Blower Motor Medium Speed Control 2	_	_
A2	3	L-BU	1072	Auxiliary Blower Motor Medium Speed Control	I	_
B1 - B2	_	_	_	Not Occupied	_	_
C1	5	RD / WH	1740	Battery Positive Voltage	Ī	_
C2	0.35	BN	341	Run Ignition 3 Voltage	I	_

KR81 Auxiliary Battery Relay 1 X1



635009

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 12052641 Service Connector: 13586114

Description: 2-Way F 150 Metri-Pack Series, Sealed(BK)

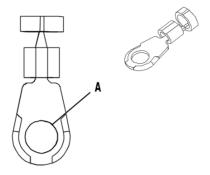
Terminal Part Information

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

KR81 Auxiliary Battery Relay 1 X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	RD / WH	4892	Auxiliary Battery Relay Control	_	_
В	0.75	BK / WH	1551	Signal Ground	I	_

KR81 Auxiliary Battery Relay 1 X2



3385519

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 12146365

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

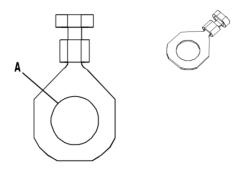
Terminal Part Information

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

KR81 Auxiliary Battery Relay 1 X2

Pi	in	Size	Color	Circuit	Function	Terminal Type ID	Option
P	Α .	13	RD	1	Unfused Battery Positive Voltage	Ι	

KR81 Auxiliary Battery Relay 1 X3 (9L7)



3240148

Connector Part Information

Harness Type: Accessory Wiring Harness

OEM Connector: 12103504

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

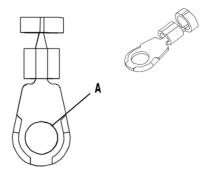
Terminal Part Information

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

KR81 Auxiliary Battery Relay 1 X3 (9L7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	5	RD	102	Battery Positive Voltage	I	_

KR81 Auxiliary Battery Relay 1 X3 (L8T)



3385519

Connector Part Information

Harness Type: Auxiliary Battery Positive Cable

OEM Connector: 12146365

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

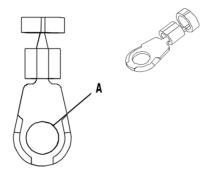
Terminal Part Information

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

KR81 Auxiliary Battery Relay 1 X3 (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	13	RD	1	Unfused Battery Positive Voltage	I	_

KR81 Auxiliary Battery Relay 1 X3 (LV1)



3385519

Connector Part Information

Harness Type: Auxiliary Battery Positive Cable

OEM Connector: 12146365

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

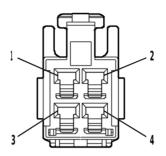
Terminal Part Information

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

KR81 Auxiliary Battery Relay 1 X3 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	13	RD	1	Unfused Battery Positive Voltage	Ι	_

M2A Access Panel Unlatch Actuator - Left Front Side Front



4569115

Connector Part Information

Harness Type: Rear Body OEM Connector: 7283-1040-90

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 090 II Series(BU)

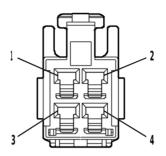
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-18 (BK)	No Tool Required	

M2A Access Panel Unlatch Actuator - Left Front Side Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	_	_	_	Not Occupied	_	_
3	_	TN	294	Door Lock Actuator Unlock Control	I	_
4	_	BK	750	Ground	I	_

M2B Access Panel Unlatch Actuator - Left Front Side Rear



4569115

Connector Part Information

Harness Type: Rear Body OEM Connector: 7283-1040-90

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 090 II Series(BU)

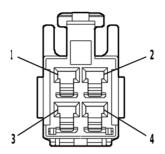
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-18 (BK)	No Tool Required	

M2B Access Panel Unlatch Actuator - Left Front Side Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	_	_	_	Not Occupied		_
3	_	TN	294	Door Lock Actuator Unlock Control	I	_
4	_	BK	750	Ground	I	_

M2C Access Panel Unlatch Actuator - Left Rear Side Front



4569115

Connector Part Information

Harness Type: Rear Body OEM Connector: 7283-1040-90

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 090 II Series(BU)

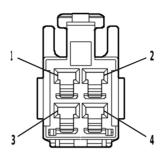
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-18 (BK)	No Tool Required	

M2C Access Panel Unlatch Actuator - Left Rear Side Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	_	_	_	Not Occupied	_	_
3	_	PK	1092	Left Rear Door Lock Actuator Unlock Control	I	_
4	_	BK	750	Ground	I	_

M2D Access Panel Unlatch Actuator - Left Rear Side Rear



4569115

Connector Part Information

Harness Type: Rear Body OEM Connector: 7283-1040-90

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 090 II Series(BU)

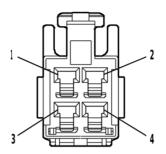
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-18 (BK)	No Tool Required	

M2D Access Panel Unlatch Actuator - Left Rear Side Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2		_	_	Not Occupied		_
3		PK	1092	Left Rear Door Lock Actuator Unlock Control	I	_
4	_	BK	750	Ground	I	_

M2E Access Panel Unlatch Actuator - Right Side Front



4569115

Connector Part Information

Harness Type: Rear Body OEM Connector: 7283-1040-90

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 090 II Series(BU)

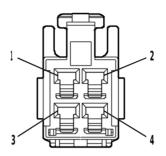
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-18 (BK)	No Tool Required	

M2E Access Panel Unlatch Actuator - Right Side Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	_	_	_	Not Occupied	_	_
3	_	TN / BK	1095	Right Rear Door Lock Actuator Unlock Control	I	_
4	_	BK	750	Ground	I	_

M2F Access Panel Unlatch Actuator - Right Side Rear



4569115

Connector Part Information

Harness Type: Rear Body OEM Connector: 7283-1040-90

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 090 II Series(BU)

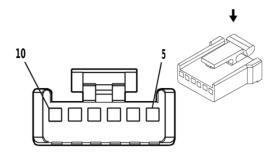
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-18 (BK)	No Tool Required	

M2F Access Panel Unlatch Actuator - Right Side Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	_	_	_	Not Occupied		_
3	_	TN / BK	1095	Right Rear Door Lock Actuator Unlock Control	I	_
4	_	BK	750	Ground	I	_

M6 Air Temperature Door Actuator



281207

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12040953 Service Connector: 12102632

Description: 6-Way F 100 Micro-Pack Series(BK)

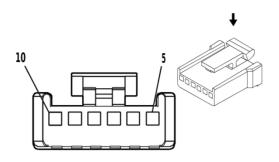
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-6 (BN)	No Tool Required	

M6 Air Temperature Door Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
5 - 6	_		_	Not Occupied	_	
7	1	BK	550	Ground	I	
8	0.8	L-BU	733	Air Temperature Door Position Signal	I	
9	_	_	_	Not Occupied	_	_
10	0.35	BN	341	Run Ignition 3 Voltage	I	_

M6B Air Temperature Door Actuator - Auxiliary



281207

Connector Part Information

Harness Type: Auxiliary Heater and Air Conditioning Wiring Harness

OEM Connector: 12040953

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 100 Micro-Pack Series(BK)

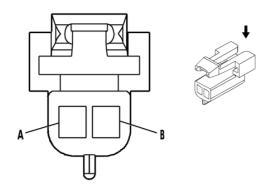
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	Not required J-35616-6 (BN)		

M6B Air Temperature Door Actuator - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
5 - 6	_			Not Occupied	_	
7	0.35	BK	850	Ground		
8	0.35	OG	2775	Rear Air Temperature Door Actuator Control	I	
9	_	_	_	Not Occupied	_	_
10	0.35	BN	341	Run Ignition 3 Voltage	I	_

M7 Transmission Shift Lock Control Solenoid Actuator



280768

Connector Part Information

Harness Type: Steering Column OEM Connector: 12052832

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 Metri-Pack 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	

M7 Transmission Shift Lock Control Solenoid Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	1	TN / WH	816	Brake Transmission Shift Interlock Solenoid Actuator Control	_	_
В	_	BK	350	Ground	I	_

M8 Blower Motor

Connector Part Information

Harness Type: HVAC

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way

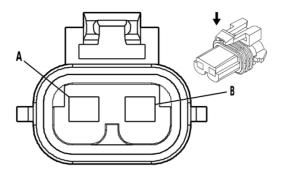
Terminal Part Information

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

M8 Blower Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α		BK	1250	Ground	1	
В		RD	65	Blower Motor Control		_

M8B Blower Motor - Auxiliary



684799

Connector Part Information

Harness Type: Auxiliary Heater and Air Conditioning Wiring Harness

OEM Connector: 12077900

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

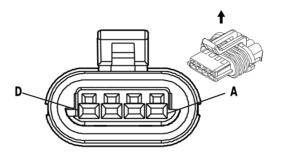
Terminal Part Information

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

M8B Blower Motor - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	5	BK	850	Ground	1	_
В	5	YE	1172	Auxiliary Blower Motor Control		_

M13 Door Latch Assembly - Rear Cargo X1



655858

Connector Part Information

Harness Type: Rear Door Door Wiring Harness

OEM Connector: 15336846

Service Connector: Service by Harness - See Part Catalog Description: 4-Way F 150 GT Series, Sealed(BU)

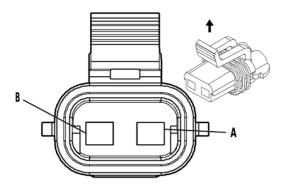
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	Not required J-35616-14 (GN)		

M13 Door Latch Assembly - Rear Cargo X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.35	BK / WH	1051	Signal Ground	I	_
В	_	_	_	Not Occupied	_	_
С	0.35	PK / BK	1303	Liftgate Ajar Switch Signal 1	I	_
D	0.35	L-GN	5926	Rear Body Opening Open Switch Signal	Ι	_

M13 Door Latch Assembly - Rear Cargo X2



68721

Connector Part Information

Harness Type: Rear Door Door Wiring Harness

OEM Connector: 15300027

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

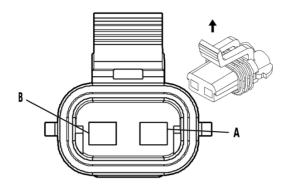
Terminal Part Information

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

M13 Door Latch Assembly - Rear Cargo X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	1	TN / BK	1095	Right Rear Door Lock Actuator Unlock Control	I	_
В	1	GY	295	Door Lock Actuator Lock Control	I	_

M14RR Door Lock Actuator - Right Rear (E24)



68721

Connector Part Information

Harness Type: Rear Side Door Wiring Harness

OEM Connector: 15300027

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

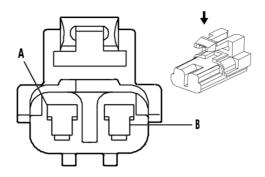
Terminal Part Information

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

M14RR Door Lock Actuator - Right Rear (E24)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	TN	294	Door Lock Actuator Unlock Control	I	_
В	0.8	GY	295	Door Lock Actuator Lock Control	I	_

M14RR Door Lock Actuator - Right Rear (YA2)



62488

Connector Part Information

Harness Type: Rear Side Door Wiring Harness

OEM Connector: 12084957

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 280 Metri-Pack Series(BK)

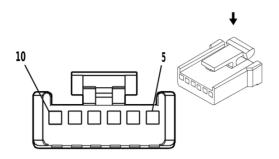
Terminal Part Information

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

M14RR Door Lock Actuator - Right Rear (YA2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	GY	295	Door Lock Actuator Lock Control	_	_
В	0.8	TN	294	Door Lock Actuator Unlock Control	Ī	_

M37B Mode Door Actuator - Auxiliary



281207

Connector Part Information

Harness Type: Auxiliary Heater and Air Conditioning Wiring Harness

OEM Connector: 12040953

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 100 Micro-Pack Series(BK)

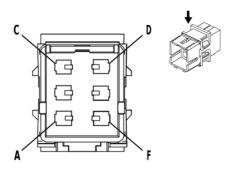
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-6 (BN)	No Tool Required	

M37B Mode Door Actuator - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
5 - 6	_		_	Not Occupied		
7	0.35	BK	850	Ground	I	_
8	0.35	GY	2599	Rear Mode Door Actuator Signal	I	_
9	_	_	_	Not Occupied	_	_
10	0.35	BN	341	Run Ignition 3 Voltage	I	_

M49D Seat Motor Assembly - Driver (AG1)



2684011

Connector Part Information

Harness Type: Driver Seat Motor Jumper

OEM Connector: 12015345

Service Connector: Service by Harness - See Part Catalog Description: 6-Way M Weather Pack Series, Sealed(BK)

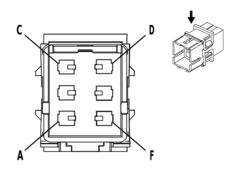
Terminal Part Information

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

M49D Seat Motor Assembly - Driver (AG1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α		YE	282	Driver Seat Rear Vertical Motor Up Control	I	_
В		L-BU	283	Driver Seat Rear Vertical Motor Down Control	I	_
С	_	TN	285	Driver Seat Horizontal Motor Forward Control	I	_
D	_	L-GN	284	Driver Seat Horizontal Motor Rearward Control	I	_
Е		D-GN	286	Driver Seat Front Vertical Motor Up Control	I	_
F	_	D-BU	287	Driver Seat Front Vertical Motor Down Control	I	_

M49P Seat Motor Assembly - Passenger (AG2)



2684011

Connector Part Information

Harness Type: Passenger Seat Motor Jumper

OEM Connector: 12015345

Service Connector: Service by Harness - See Part Catalog Description: 6-Way M Weather Pack Series, Sealed(BK)

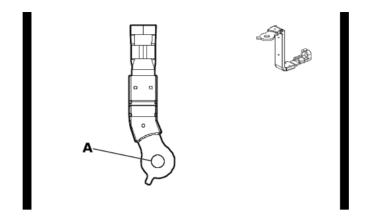
Terminal Part Information

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

M49P Seat Motor Assembly - Passenger (AG2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α		YE	288	Passenger Seat Rear Vertical Motor Up Control	I	_
В		L-BU	289	Passenger Seat Rear Vertical Motor Down Control	I	_
С	l	TN	296	Passenger Seat Horizontal Motor Forward Control	I	_
D	_	L-GN	290	Passenger Seat Horizontal Motor Rearward Control	I	_
Е	_	D-GN	297	Passenger Seat Front Vertical Motor Up Control	I	_
F		D-BU	298	Passenger Seat Front Vertical Motor Down Control	I	_

M64 Starter Motor X1 (L8T+TP3)



6056268

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 35592444

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

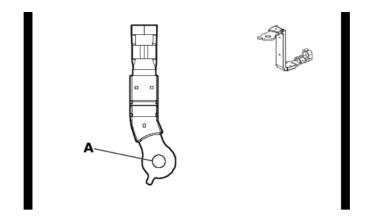
Terminal Part Information

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

M64 Starter Motor X1 (L8T+TP3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
٨	13	RD	1	Unfused Battery Positive Voltage		_
A	32	RD	1	Unfused Battery Positive Voltage	1	_

M64 Starter Motor X1 (L8T-TP3)



6056268

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 35592441

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way Ring Terminal

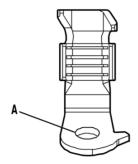
Terminal Part Information

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

M64 Starter Motor X1 (L8T-TP3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	32	RD	1	Unfused Battery Positive Voltage	I	

M64 Starter Motor X1 (LV1)





4937583

Connector Part Information

Harness Type: Battery Positive Cable

OEM Connector: 35116268

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 Motor X1 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
٨	13	RD	1	Unfused Battery Positive Voltage	_	_
A	32	RD	1	Unfused Battery Positive Voltage	-	_

M64 Starter Motor X2

Connector Part Information

Harness Type: Starter Motor Jumper Wiring Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way

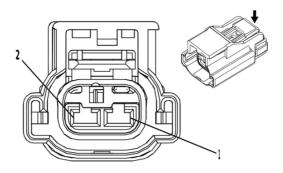
Terminal Part Information

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

M64 Starter Motor X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	YE	6	Starter Solenoid Crank Ignition Voltage	I	_

M74D Window Motor - Driver



3372003

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Driver

OEM Connector: 13896059

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

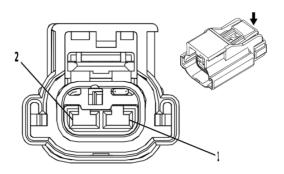
Terminal Part Information

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

M74D Window Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	3	D-BU	164	Left Front Window Motor Up Control	Ι	_
2	3	BN	165	Left Front Window Motor Down Control	I	_

M74P Window Motor - Passenger



3372003

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Passenger

OEM Connector: 13896059

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

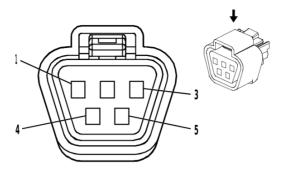
Terminal Part Information

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

M74P Window Motor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	3	D-BU	666	Right Front Window Motor Up Control	_	_
2	3	BN	667	Right Front Window Motor Down Control	Ī	_

M75 Windshield Wiper Motor



1715213

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15316488 Service Connector: 13587179

Description: 5-Way F 090 Series, Sealed(BK)

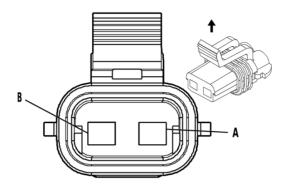
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-14 (GN)	No Tool Required	
II	Not required	J-35616-18 (BK)	No Tool Required	

M75 Windshield Wiper Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2	D-GN	95	Windshield Wiper Motor Low Speed Control	II	
2	0.35	BK / WH	351	Signal Ground	l	
3	0.35	YE	196	Windshield Wiper Motor Park Switch Signal	I	_
4	2	PU	92	Windshield Wiper Motor High Speed Control	II	_
5	2	BK	1250	Ground	Ш	

P3 Backup Alarm (-Cutaway)



68721

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 15300027

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

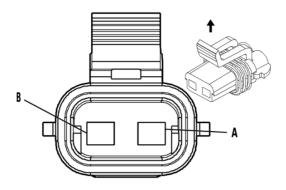
Terminal Part Information

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

P3 Backup Alarm (-Cutaway)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	1	L-GN	1624	Trailer Backup Lamp Control	_	_
В	1	BK	150	Ground	I	_

P3 Backup Alarm (Cutaway)



68721

Connector Part Information

Harness Type: Chassis Rear Wiring Harness Extension Harness

OEM Connector: 15300027

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

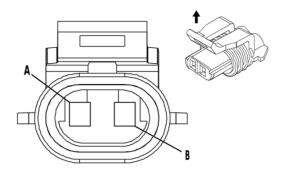
Terminal Part Information

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

P3 Backup Alarm (Cutaway)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	1	L-GN	1624	Trailer Backup Lamp Control	1	_
В	1	BK	150	Ground	- 1	_

P13 Horn Assembly



537107

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 12052644 Service Connector: 19368034

Description: 2-Way F 150 Metri-Pack Series, Sealed(GY)

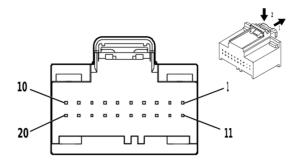
Terminal Part Information

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

P13 Horn Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	1	BK	1250	Ground	Ι	_
В	1	BN / GY	29	Horn Control	I	_

P16 Instrument Cluster



5112891

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 35160140 Service Connector: 13525990

Description: 20-Way F 0.64 Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	13584547	J-35616-64B (L-BU)	J-38125-215A	

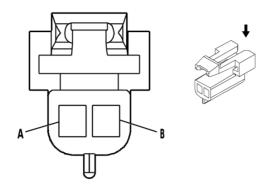
P16 Instrument Cluster

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	_
2 - 3	_	_		Not Occupied		_
4	0.5	BN / WH	419	Check Engine Indicator Control	I	_
5	_	_		Not Occupied		_
6	0.35	GY / YE	3885	Forward Collision Alert LED Control	I	_
7	0.35	BK / WH	351	Signal Ground	I	_
8	0.35	WH / L- GN	3535	Reflected LED Display Dimming Control	_	_
9	_	_	_	Not Occupied	_	_
10	0.5	D-BU / GY	636	Ambient Air Temperature Sensor Signal	I	_
11	0.5	BK / D- BU	61	Ambient Air Temperature Sensor Low Reference	I	_
12	0.35	D-BU	2307	Passenger Air Bag On Indicator Control	I	_
13	0.35	D-GN	2308	Passenger Air Bag Off Indicator Control	I	_
14	0.5	TN / WH	33	Brake Warning Indicator Control	I	_
15	0.75	L-GN / GY	333	Brake Fluid Level Signal	_	_
16	0.35	PK	893	Driver Information Center Select Menu Switch Signal	Ι	_
17	0.35	D-GN / WH	1358	Driver Information Center Switch Signal	I	
18	0.35	BN	897	Driver Information Center Switch Low Reference	I	
19	0.35	PK	1639	Run/Crank Ignition 1 Voltage	I	_

P16 Instrument Cluster (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20	0.5	RD / WH	2840	Battery Positive Voltage	1	8S8
20	0.35	RD / WH	2840	Battery Positive Voltage	I	- 8S8

P19AG Speaker - Left Front Door



280768

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Driver

OEM Connector: 12052832

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 Metri-Pack Series(BK)

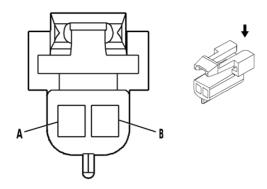
Terminal Part Information

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

P19AG Speaker - Left Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	L-BU	1957	1957 Left Front Midrange Speaker [-] Control		_
В	0.8	D-BU	1857	Left Front Midrange Speaker [+] Control		_

P19AH Speaker - Right Front Door



280768

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Passenger

OEM Connector: 12052832

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 Metri-Pack Series(BK)

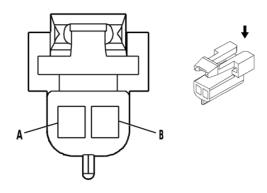
Terminal Part Information

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

P19AH Speaker - Right Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	D-GN	1953	3 Right Front Midrange Speaker [-] Control		_
В	0.8	OG	1853	Right Front Midrange Speaker [+] Control		_

P19F Speaker - Left Rear Cargo Door



280768

Connector Part Information

Harness Type: Rear Door Door Wiring Harness - Left

OEM Connector: 12052832

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 Metri-Pack Series(BK)

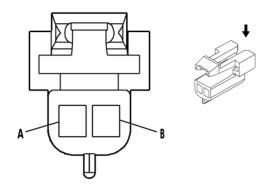
Terminal Part Information

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

P19F Speaker - Left Rear Cargo Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	1	WH	1959	Left Rear Midrange Speaker [-] Control	1	_
В	1	TN	1859	Left Rear Midrange Speaker [+] Control		_

P19LR Speaker - Left Rear Roof



280768

Connector Part Information

Harness Type: Radio Rear Speaker Wiring Harness

OEM Connector: 12052832

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 Metri-Pack Series(BK)

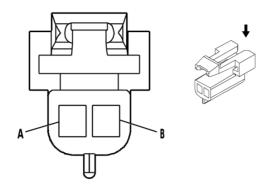
Terminal Part Information

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

P19LR Speaker - Left Rear Roof

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	1	WH	1959	Left Rear Midrange Speaker [-] Control	_	_
В	1	TN	1859	Left Rear Midrange Speaker [+] Control	Ī	_

P19RR Speaker - Right Rear Roof



280768

Connector Part Information

Harness Type: Radio Rear Speaker Wiring Harness

OEM Connector: 12052832

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 Metri-Pack Series(BK)

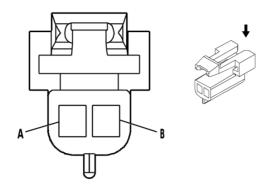
Terminal Part Information

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

P19RR Speaker - Right Rear Roof

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	1	G	1955	Right Rear Midrange Speaker [-] Control	1	_
В	1	TN	1855	Right Rear Midrange Speaker [+] Control	Ι	_

P19T Speaker - Right Rear Cargo Door



280768

Connector Part Information

Harness Type: Rear Door Door Wiring Harness

OEM Connector: 12052832

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 Metri-Pack Series(BK)

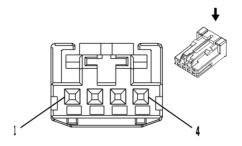
Terminal Part Information

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

P19T Speaker - Right Rear Cargo Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	1	OG	1955	Right Rear Midrange Speaker [-] Control	_	_
В	1	TN	1855	Right Rear Midrange Speaker [+] Control	Ī	_

P43 Collision Alert Indicators



2717162

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13969166 Service Connector: 19367524

Description: 4-Way F 0.64 Micro-Quadlock Series(BK)

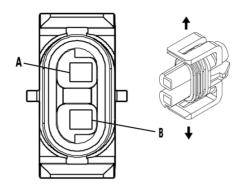
Terminal Part Information

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

P43 Collision Alert Indicators

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT / BK	1639	Run/Crank Ignition 1 Voltage	I	_
2	0.35	GY / YE	3885	Forward Collision Alert LED Control	I	_
3	0.35	WH / L- GN	3535	Reflected LED Display Dimming Control	I	_
4	0.5	BK / WH	2151	Signal Ground	I	_

Q2 A/C Compressor Clutch



684852

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 12162017 Service Connector: 12101937

Description: 2-Way F 150 Metri-Pack Series, Sealed(GY)

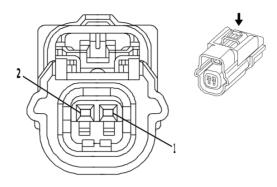
Terminal Part Information

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

Q2 A/C Compressor Clutch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.75	BK	1250	Ground	_	_
В	0.5	BN / L- GN	59	A/C Compressor Clutch Control		_

Q6 Camshaft Position Actuator Solenoid Valve



1664592

Connector Part Information

Harness Type: Camshaft Position Actuator Solenoid Valve Jumper

OEM Connector: 89047381

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 0.64 Kaizen Series, Sealed(BK)

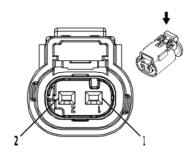
Terminal Part Information

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

Q6 Camshaft Position Actuator Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	BK / BN	6753	Camshaft Position Actuator Solenoid Valve W Low Reference	I	_
2	_	VT / BN	5284	Intake Camshaft Position Actuator Solenoid Valve 1	I	_

Q12 Evaporative Emission Purge Solenoid Valve



2717066

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13735326 Service Connector: 13587326

Description: 2-Way F 1.2 Multilock Series, Sealed(BK)

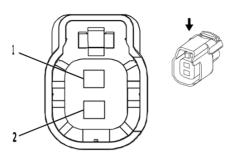
Terminal Part Information

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

Q12 Evaporative Emission Purge Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT / WH	1939	Run/Crank Ignition 1 Voltage	I	_
2	0.5	L-GN / D-BU	428	EVAP Canister Purge Solenoid Control	I	_

Q13 Evaporative Emission Vent Solenoid Valve



2422378

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 13771883

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

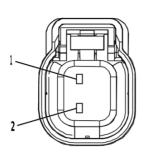
Terminal Part Information

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

Q13 Evaporative Emission Vent Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	1310	EVAP Vent Solenoid Valve Control	1	_
2	0.5	RD / L- GN	40	Battery Positive Voltage	I	_

Q17A Fuel Injector 1





2792100

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

OEM Connector: 13581410

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

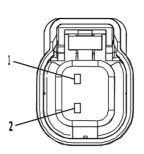
Terminal Part Information

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

Q17A Fuel Injector 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	BN / WH	4901	Direct Fuel Injector High Voltage Supply Cylinder 1	Ι	_
2	_	BN	4801	Direct Fuel Injector High Voltage Control Cylinder 1	I	_

Q17B Fuel Injector 2





2792100

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

OEM Connector: 13581410

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

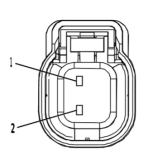
Terminal Part Information

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

Q17B Fuel Injector 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	D-BU / GY	4902	Direct Fuel Injector High Voltage Supply Cylinder 2	Ι	_
2	_	D-BU	4802	Direct Fuel Injector High Voltage Control Cylinder 2	_	_

Q17C Fuel Injector 3





2792100

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

OEM Connector: 13581410

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

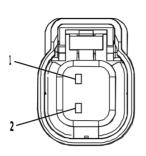
Terminal Part Information

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

Q17C Fuel Injector 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	L-GN / GY	4903	Direct Fuel Injector High Voltage Supply Cylinder 3	Ι	_
2	_	L-GN	4803	Direct Fuel Injector High Voltage Control Cylinder 3	I	_

Q17D Fuel Injector 4





2792100

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

OEM Connector: 13581410

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

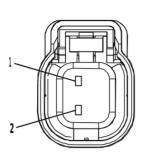
Terminal Part Information

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

Q17D Fuel Injector 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	D-BU / WH	4904	Direct Fuel Injector High Voltage Supply Cylinder 4	Ι	_
2	_	GY / D- BU	4804	Direct Fuel Injector High Voltage Control Cylinder 4	I	_

Q17E Fuel Injector 5





2792100

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

OEM Connector: 13581410

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

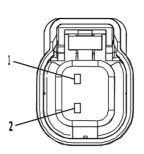
Terminal Part Information

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

Q17E Fuel Injector 5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	L-GN / WH	4905	Direct Fuel Injector High Voltage Supply Cylinder 5	I	_
2	_	WH / L- GN	4805	Direct Fuel Injector High Voltage Control Cylinder 5	I	_

Q17F Fuel Injector 6





2792100

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

OEM Connector: 13581410

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

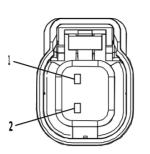
Terminal Part Information

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

Q17F Fuel Injector 6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	VT / GY	4906	Direct Fuel Injector High Voltage Supply Cylinder 6	Ι	_
2		VT / L- GN	4806	Direct Fuel Injector High Voltage Control Cylinder 6	Ι	_

Q17G Fuel Injector 7 (L8T)





2792100

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

OEM Connector: 13581410

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

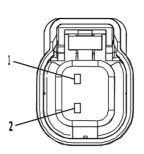
Terminal Part Information

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

Q17G Fuel Injector 7 (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	WH / YE	4907	Direct Fuel Injector High Voltage Supply Cylinder 7	Ι	
2	_	YE / GY	4807	Direct Fuel Injector High Voltage Control Cylinder 7	_	

Q17H Fuel Injector 8 (L8T)





2792100

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

OEM Connector: 13581410

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 1.5 Series, Sealed(BK)

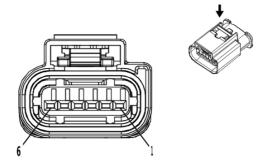
Terminal Part Information

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

Q17H Fuel Injector 8 (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	GY / WH	4908	Direct Fuel Injector High Voltage Supply Cylinder 8	Ι	_
2	_	GY	4808	Direct Fuel Injector High Voltage Control Cylinder 8		_

Q38 Throttle Body



3747579

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 33220833 Service Connector: 19352911

Description: 6-Way F 1.2 MCON Series, Sealed(BK)

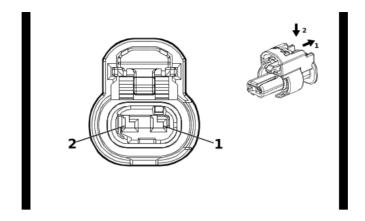
Terminal Part Information

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

Q38 Throttle Body

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	581	Throttle Actuator Open Control	I	_
2	0.5	BN / WH	582	Throttle Actuator Close Control	I	
3	0.5	D-BU / WH	3630	Throttle Position Sensor SENT 1 Signal	I	
4	0.5	BK / BN	2752	Throttle Position Sensor Low Reference	I	
5	0.5	BN / RD	2701	Throttle Position Sensor 5V Reference	I	
6	_	_	_	Not Occupied	_	_

Q44 Engine Oil Pressure Control Solenoid Valve (L8T)



4036662

Connector Part Information

Harness Type: Oil Pump Flow Control Solenoid Valve Wire Wiring Harness

OEM Connector: 1-2296704-1

Service Connector: Service by Harness - See Part Catalog Description: 2-Way F 1.2 MCON-CB Series, Sealed(BK)

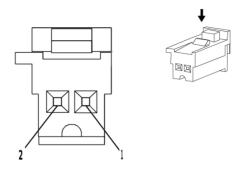
Terminal Part Information

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

Q44 Engine Oil Pressure Control Solenoid Valve (L8T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	l	VT / D- BU	5293	Powertrain Main Relay Fused Supply Voltage 4	_	_
2	_	D-BU	179	Engine Oil Pump Control	I	_

Q77A Transmission Control Solenoid Valve 1 (M5U)



4051391

Connector Part Information

Harness Type: Automatic Transmission Wiring Harness

OEM Connector: 13956948

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 MTS Series(VT)

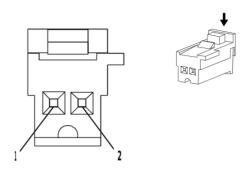
Terminal Part Information

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

Q77A Transmission Control Solenoid Valve 1 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	BN	6400	Clutch Solenoid Valve A Control	Ι	_
2	_	GY / BN	6388	Transmission High Side Driver 2 Control	I	_

Q77B Transmission Control Solenoid Valve 2 (M5U)



4008644

Connector Part Information

Harness Type: Automatic Transmission Wiring Harness

OEM Connector: 13941672

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 MTS Series(GY)

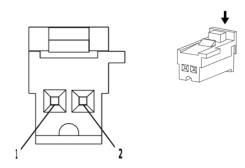
Terminal Part Information

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

Q77B Transmission Control Solenoid Valve 2 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	D-BU	6401	Clutch Solenoid Valve B Control	_	_
2	_	GY / BN	6388	Transmission High Side Driver 2 Control	I	_

Q77C Transmission Control Solenoid Valve 3 (M5U)



4008644

Connector Part Information

Harness Type: Automatic Transmission Wiring Harness

OEM Connector: 13941672

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 MTS Series(GY)

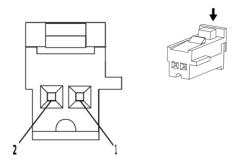
Terminal Part Information

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

Q77C Transmission Control Solenoid Valve 3 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1		GY	6402	Clutch Solenoid Valve C Control	1	_
2	_	GY / BN	6388	Transmission High Side Driver 2 Control		_

Q77D Transmission Control Solenoid Valve 4 (M5U)



4008636

Connector Part Information

Harness Type: Automatic Transmission Control Wiring Harness

OEM Connector: 13947283

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 MTS Series(NA)

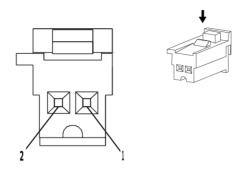
Terminal Part Information

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

Q77D Transmission Control Solenoid Valve 4 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	WH	4508	Transmission Clutch G Control	1	_
2	_	L-GN / GY	6387	Transmission High Side Driver 1 Control	Ι	_

Q77E Transmission Control Solenoid Valve 5 (M5U)



4051391

Connector Part Information

Harness Type: Automatic Transmission Wiring Harness

OEM Connector: 13956948

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 MTS Series(VT)

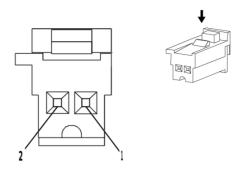
Terminal Part Information

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

Q77E Transmission Control Solenoid Valve 5 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	WH / D- BU	4507	Transmission Clutch H Control	_	_
2	_	L-GN / GY	6387	Transmission High Side Driver 1 Control	Ι	_

Q77F Transmission Control Solenoid Valve 6 (M5U)



4051391

Connector Part Information

Harness Type: Automatic Transmission Wiring Harness

OEM Connector: 13956948

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 MTS Series(VT)

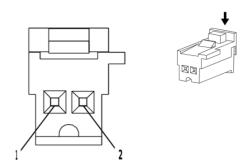
Terminal Part Information

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

Q77F Transmission Control Solenoid Valve 6 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	GY / L- GN	6403	Clutch Solenoid Valve D Control	_	_
2	_	GY / BN	6388	Transmission High Side Driver 2 Control	I	_

Q77G Transmission Control Solenoid Valve 7 (M5U)



4008644

Connector Part Information

Harness Type: Automatic Transmission Wiring Harness

OEM Connector: 13941672

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 0.64 MTS Series(GY)

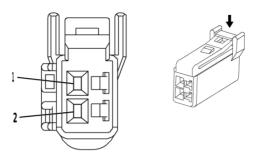
Terminal Part Information

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

Q77G Transmission Control Solenoid Valve 7 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	YE / BN	6404	Clutch Solenoid Valve E Control		_
2	_	GY / BN	6388	Transmission High Side Driver 2 Control	I	_

Q77H Transmission Control Solenoid Valve 8 (M5U)



4051682

Connector Part Information

Harness Type: Automatic Transmission Wiring Harness

OEM Connector: 7287-0122

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 040 III Series(NA)

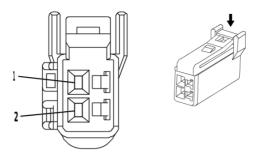
Terminal Part Information

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

Q77H Transmission Control Solenoid Valve 8 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	L-GN / GY	6387	Transmission High Side Driver 1 Control	Ι	_
2	_	L-GN / WH	6380	Torque Converter Clutch Enable Solenoid Valve A Control	Ι	_

Q77J Transmission Control Solenoid Valve 9 (M5U)



4051682

Connector Part Information

Harness Type: Automatic Transmission Wiring Harness

OEM Connector: 7287-0122

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 040 III Series(NA)

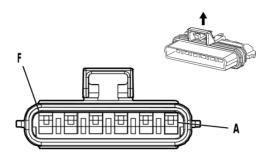
Terminal Part Information

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

Q77J Transmission Control Solenoid Valve 9 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	GY / BN	6388	Transmission High Side Driver 2 Control	_	_
2	_	YE / BN	6210	Torque Converter Clutch Enable Solenoid Valve B Control	_	_

R3 Blower Motor Resistor



535914

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 12160746 Service Connector: 15306007

Description: 6-Way F 280 Metri-Pack Flexlock Series, Sealed(L-GY)

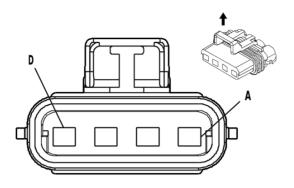
Terminal Part Information

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

R3 Blower Motor Resistor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	5	RD / PU	542	Battery Positive Voltage	I	_
В	1	WH / BK	52	Blower Motor High Speed Control	I	_
С	4	BK	1250	Ground	I	_
D	1	YE / BN	63	Blower Motor Medium 1 Control	I	_
Е	1	YE	60	Blower Motor Low Speed Control	I	_
F	2	D-BU / YE	72	Blower Motor Medium 2 Control	I	_

R3B Blower Motor Resistor - Auxiliary



697053

Connector Part Information

Harness Type: Auxiliary Heater and Air Conditioning Wiring Harness

OEM Connector: 12129566

Service Connector: Service by Harness - See Part Catalog Description: 4-Way F 280 Metri-Pack Series, Sealed(GY)

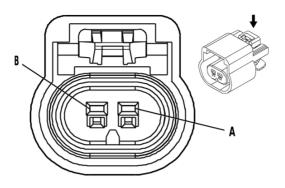
Terminal Part Information

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

R3B Blower Motor Resistor - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	3	YE	1176	Auxiliary Blower Motor Low Speed Control	1	_
В	_		_	Not Occupied	_	_
С	3	L-BU	1072	Auxiliary Blower Motor Medium Speed Control	I	_
D	3	YE	1172	Auxiliary Blower Motor Control	I	_

R6A Terminating Resistor - High Speed Bus



523630

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13510085 Service Connector: 87815146

Description: 2-Way F 150 GT Series, Sealed(BK)

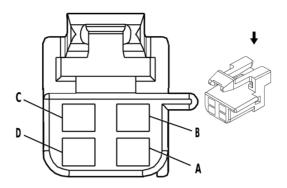
Terminal Part Information

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

R6A Terminating Resistor - High Speed Bus

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	_
В	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	I	_

S2 Transmission Manual Shift Switch



130637

Connector Part Information

Harness Type: Steering Column OEM Connector: 12064760

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 150 Metri-Pack Series(BK)

Terminal Part Information

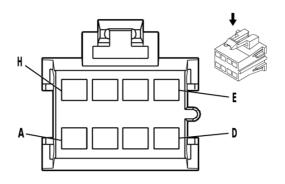
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	No Tool Required	No Tool Required	

S2 Transmission Manual Shift Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A - B	_	_	_	Not Occupied	_	_
С	_	PU	5526	Tap Up/Tap Down Switch Signal	I	_
D	_	PK	1444	12V Reference	I	_

6-292

S13A Door Lock Switch - Rear Cargo



62469

Connector Part Information

Harness Type: Rear Door Door Wiring Harness

OEM Connector: 12064998

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 280 Metri-Pack Series(BK)

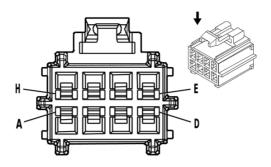
Terminal Part Information

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

S13A Door Lock Switch - Rear Cargo

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.35	L-BU	244	Passenger Door Lock Switch Lock Control	1	
B - C	_	_	_	Not Occupied	_	_
D	0.35	D-BU	245	Passenger Door Lock Switch Unlock Control	I	_
Е	0.35	BK / WH	1051	Signal Ground	I	_
F-H	_	_	_	Not Occupied	_	_

S13D Door Lock Switch - Driver



851474

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Driver

OEM Connector: 15418533

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 280 GT Series(L-GN)

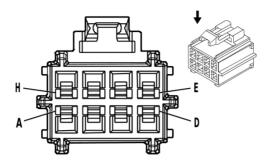
Terminal Part Information

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

S13D Door Lock Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.35	BK	450	Ground		_
В	0.35	BK	450	Ground		_
С	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	I	_
D-E	_	_	_	Not Occupied	_	_
F	0.35	OG / BK	781	Driver Door Lock Switch Unlock Signal	I	_
G	0.35	PK / BK	780	Driver Door Lock Switch Lock Signal	I	_
Н	_	_	_	Not Occupied	_	_

S13P Door Lock Switch - Passenger



851474

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Passenger

OEM Connector: 15418533

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 280 GT Series(L-GN)

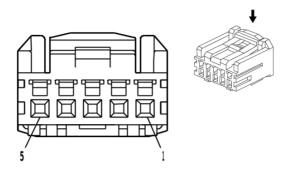
Terminal Part Information

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

S13P Door Lock Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.35	BK	1850	Ground	I	_
В	0.35	BK	1850	Ground		_
С	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	I	_
D-E	_	_	_	Not Occupied	_	_
F	0.35	D-BU	245	Passenger Door Lock Switch Unlock Control	I	_
G	0.35	L-BU	244	Passenger Door Lock Switch Lock Control	I	_
Н	_	_	_	Not Occupied	_	_

S16 Driver Information Center Switch



1673494

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15491277 Service Connector: 88988747

Description: 5-Way F HCM Series(BK)

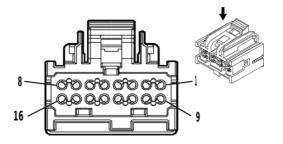
Terminal Part Information

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

S16 Driver Information Center Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-GN / WH	1358	Driver Information Center Switch Signal	_	
2	0.35	BN	897	Driver Information Center Switch Low Reference	I	
3	0.35	PK	893	Driver Information Center Select Menu Switch Signal	Ι	
4	0.5	YE	6817	LED Backlight Dimming Control 1	I	
5	0.5	BK / WH	351	Signal Ground		

S30 Headlamp Switch



2127936

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13568238 Service Connector: 13504130

Description: 16-Way F 64 Micro-Series(BK)

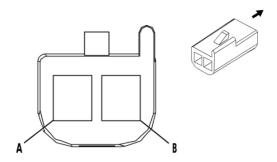
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	13579976	J-35616-64B (L-BU)	J-38125-21	

S30 Headlamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH	103	Headlamp Switch On Signal	I	
2	0.35	L-BU	13	Headlamp Switch Park Lamp Signal	I	
3	0.35	D-GN	306	Headlamp Switch Off Signal	I	_
4 - 6	_	_	_	Not Occupied	_	_
7	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	I	_
8	0.5	BK / WH	351	Signal Ground	I	_
9	0.35	PU	328	Interior Lamp Defeat Switch Signal	I	_
10 - 11	_	_	_	Not Occupied	_	_
12	0.35	D-BU / WH	149	Courtesy Lamp Control	I	_
13	0.35	D-GN	44	Instrument Panel Lamp Dimmer Switch Signal	I	_
14	_	_		Not Occupied	_	_
15	0.35	OG / WH	812	12V Reference	I	
16	_	_	_	Not Occupied	_	_

S33 Horn Switch



82383

Connector Part Information

Harness Type: Steering Wheel OEM Connector: 12047662

Service Connector: Service by Harness - See Part Catalog

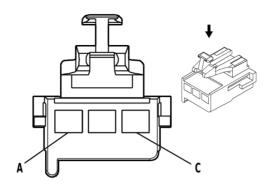
Description: 2-Way F 150 Metri-Pack Series(BK)

Terminal Part Information

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

S33 Horn Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	_	TN	28	Horn Relay Control		
В	_	BK	350	Ground	I	_



68737

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

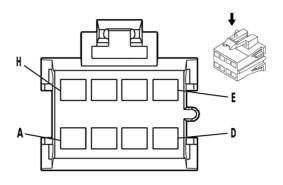
OEM Connector: 12129489 Service Connector: 19368864

Description: 3-Way F 280 Metri-Pack Flexlock 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		

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	1	WH	119	Mode Door Control	I	_
В	1	BK	550	Ground	I	_
С	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	I	_



62469

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

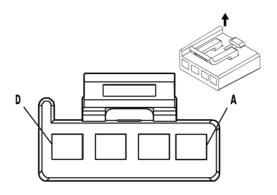
OEM Connector: 12064998 Service Connector: 15306189

Description: 8-Way F 280 Metri-Pack 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		

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	YE	60	Blower Motor Low Speed Control	I	_
В	8.0	TN	63	Blower Motor Medium 1 Control	I	_
С	8.0	L-BU	72	Blower Motor Medium 2 Control	I	_
D	8.0	OG	52	Blower Motor High Speed Control	I	_
Е	1	BN	141	Run Ignition 3 Voltage	I	_
F	0.8	L-BU	733	Air Temperature Door Position Signal	I	_
G	1	WH	119	Mode Door Control	I	_
Н	0.5	D-GN / WH	762	A/C Request Signal 2	I	_



62450

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

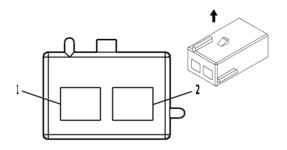
OEM Connector: 12052856 Service Connector: 12125636

Description: 4-Way F 280 Metri-Pack 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		

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	RD / WH	4440	Battery Positive Voltage	1	_
В	0.35	BN	341	Run Ignition 3 Voltage	1	_
С	1	BK	550	Ground	I	_
D	0.35	WH	193	Rear Defogger Relay Control	1	_



1283895

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15318080 Service Connector: 21019410

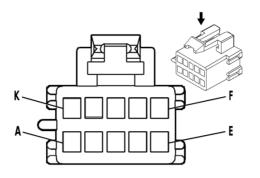
Description: 2-Way F 280 Metri-Pack Series(BK)

Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	66	A/C Request Signal	I	_
2	0.5	D-GN / WH	762	A/C Request Signal 2	I	_

S34F HVAC Controls Switch Assembly - Auxiliary Front (With Rear HVAC Controls)



62464

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 12064769 Service Connector: 12101762

Description: 10-Way F 150 Metri-Pack Series(NA)

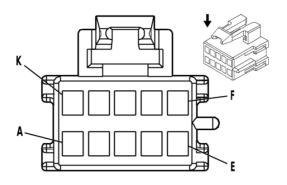
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	13575464	J-35616-14 (GN)	J-38125-12A	

S34F HVAC Controls Switch Assembly - Auxiliary Front (With Rear HVAC Controls)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	I	_
В	0.35	BK	1850	Ground	I	
С	0.5	D-BU	1926	Auxiliary Blower Motor Low Speed Control 2	I	_
D	0.5	WH	1924	Auxiliary Blower Motor High Speed Control	I	_
Е	0.5	OG	1925	Auxiliary Blower Motor Medium Speed Control 2	I	_
F	0.35	YE	5262	Auxiliary HVAC Rear Controls Enable Signal	I	_
G	0.35	BN	341	Run Ignition 3 Voltage	I	
Н	0.35	PU	5260	Auxiliary HVAC Front Temperature Signal	I	
J	0.35	TN	5261	Auxiliary HVAC Front Mode Signal	Ī	_
K		_	_	Not Occupied	_	_

S34F HVAC Controls Switch Assembly - Auxiliary Front (Without Rear HVAC Controls)



803688

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 12064871 Service Connector: 12101832

Description: 10-Way F 150 Metri-Pack Series(BU)

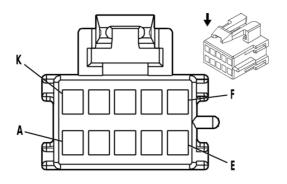
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	13575464	J-35616-14 (GN)	J-38125-12A	

S34F HVAC Controls Switch Assembly - Auxiliary Front (Without Rear HVAC Controls)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	I	_
В	0.35	BK	1850	Ground	I	_
С	0.5	D-BU	1926	Auxiliary Blower Motor Low Speed Control 2	I	_
D	0.5	WH	1924	Auxiliary Blower Motor High Speed Control	I	_
Е	0.5	OG	1925	Auxiliary Blower Motor Medium Speed Control 2	ĺ	
F	0.35	BK	1850	Ground	l	_
G	0.35	BN	341	Run Ignition 3 Voltage	I	_
Н	0.35	OG	2775	Rear Air Temperature Door Actuator Control	I	_
J	0.35	GY	2599	Rear Mode Door Actuator Signal	Ī	_
K	_	_	_	Not Occupied	_	_

S34R HVAC Controls Switch Assembly - Auxiliary Rear



803688

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 12064871 Service Connector: 12101832

Description: 10-Way F 150 Metri-Pack Series(BU)

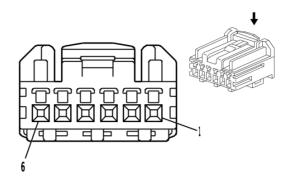
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	13575464	J-35616-14 (GN)	J-38125-12A	

S34R HVAC Controls Switch Assembly - Auxiliary Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	I	_
В	0.5	BK	1050	Ground	I	_
С	0.5	D-BU	1926	Auxiliary Blower Motor Low Speed Control 2	I	_
D	0.5	WH	1924	Auxiliary Blower Motor High Speed Control	I	_
Е	0.5	OG	1925	Auxiliary Blower Motor Medium Speed Control 2	I	_
F	0.5	PK / BK	5265	Auxiliary HVAC Rear Control Signal	I	_
G	0.35	BN	341	Run Ignition 3 Voltage	I	_
Н	0.5	BN	5263	Auxiliary HVAC Rear Temperature Signal	I	_
J	0.5	PU / WH	5264	Auxiliary HVAC Rear Mode Signal	I	_
K	_	_	_	Not Occupied	_	_

S39 Ignition Switch



3681331

Connector Part Information

Harness Type: Steering Column OEM Connector: HCMPB-C06-K

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.64 HCM Series(BK)

Terminal Part Information

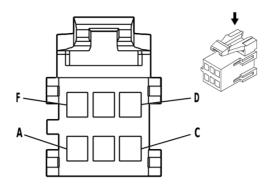
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	No Tool Required	No Tool Required	

S39 Ignition Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_		_	Not Occupied		_
2	_	PK	3	Run/Crank Ignition 1 Voltage	I	_
3	_	BN	4	Accessory Ignition Voltage	I	_
4	_	RD / WH	540	Battery Positive Voltage	I	_
5	_	PK	1020	Off/Run/Crank Ignition Voltage	I	
6	_	WH	530	Off/Run/Crank Ignition Voltage	I	_

6-306

S40 Passenger Air Bag Disable Switch



362753

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15305286 Service Connector: 15306014

Description: 6-Way F 150 Metri-Pack Series(YE)

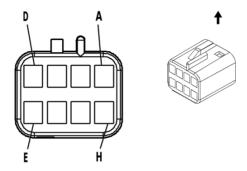
Terminal Part Information

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

S40 Passenger Air Bag Disable Switch

			1			
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	TN / BK	371	Passenger Supplemental Inflatable Restraint Disable Switch Signal	-	_
В	0.35	PK	1139	Run/Crank Ignition 1 Voltage	I	_
С	0.35	D-BU	2307	Passenger Air Bag On Indicator Control	I	_
D	0.5	PK	353	Passenger Supplemental Inflatable Restraint Suppression Indicator Control	I	_
Е	0.5	BK / WH	1751	Signal Ground	I	_
F	0.35	D-GN	2308	Passenger Air Bag Off Indicator Control	Ι	_

S51 Telematics Button Assembly



62439

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12047886

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 150 Metri-Pack Series(BK)

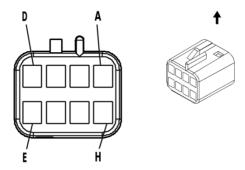
Terminal Part Information

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

S51 Telematics Button Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.8	L-GN / BK	2515	Telematics Switch Supply Voltage	1	_
В	0.8	D-GN / WH	2514	Telematics Switch Signal	I	_
C-D	_	_	_	Not Occupied	_	_
Е	1	BK / WH	351	Signal Ground	I	_
F	0.8	YE / BK	2516	Telematics Switch Green LED Indicator Control	I	_
G	0.8	BN / WH	2517	Telematics Switch Red LED Indicator Control	I	_
Н		_	_	Not Occupied	_	_

S52 Outside Rearview Mirror Switch



62439

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Driver

OEM Connector: 12047886

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 150 Metri-Pack Series(BK)

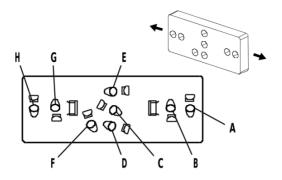
Terminal Part Information

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

S52 Outside Rearview Mirror Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.35	OG / WH	881	Right Outside Rearview Mirror Motor Right Control	_	
В	0.35	PU / WH	889	Right Outside Rearview Mirror Motor Down Control	_	
С	0.35	BN / WH	1498	Right Outside Rearview Mirror Motor Up Control	I	_
D	0.5	BK	450	Ground		_
Е	0.5	RD / WH	4340	Battery Positive Voltage	I	_
F	0.35	L-GN	89	Left Outside Rearview Mirror Motor Down Control	Ι	_
G	0.35	WH	81	Left Outside Rearview Mirror Motor Right Control	I	_
Н	0.35	YE	88	Left Outside Rearview Mirror Motor Up Control	I	_

S64D Seat Adjuster Switch - Driver (AG1)



387555

Connector Part Information

Harness Type: Driver Seat OEM Connector: 12066386

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F Pin Grip Connector(GY)

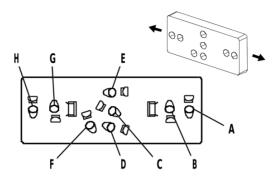
Terminal Part Information

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

S64D Seat Adjuster Switch - Driver (AG1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	_	L-BU	283	Driver Seat Rear Vertical Motor Down Control	I	_
В	_	YE	282	Driver Seat Rear Vertical Motor Up Control	I	_
С	_	BK	450	Ground	I	_
D	_	TN	285	Driver Seat Horizontal Motor Forward Control	I	_
Е	_	L-GN	284	Driver Seat Horizontal Motor Rearward Control	I	_
F	_	RD / WH	3540	Battery Positive Voltage	I	_
G	_	D-BU	287	Driver Seat Front Vertical Motor Down Control	I	_
Н	_	D-GN	286	Driver Seat Front Vertical Motor Up Control	I	_

S64P Seat Adjuster Switch - Passenger (AG2)



387555

Connector Part Information

Harness Type: Passenger Seat OEM Connector: 12066386

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F Pin Grip Connector(GY)

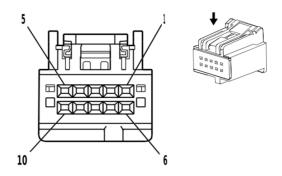
Terminal Part Information

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

S64P Seat Adjuster Switch - Passenger (AG2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А		L-BU	289	Passenger Seat Rear Vertical Motor Down Control		_
В	_	YE	288	Passenger Seat Rear Vertical Motor Up Control	I	_
С	_	BK	1850	Ground	I	_
D	_	TN	296	Passenger Seat Horizontal Motor Forward Control	I	_
Е	_	L-GN	290	Passenger Seat Horizontal Motor Rearward Control	I	_
F	_	RD / WH	3540	Battery Positive Voltage	I	_
G	_	D-BU	298	Passenger Seat Front Vertical Motor Down Control	I	_
Н	_	D-GN	297	Passenger Seat Front Vertical Motor Up Control	İ	_

S70L Steering Wheel Controls Switch - Left (K34)



1399235

Connector Part Information

Harness Type: Steering Wheel OEM Connector: 30700-1100

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 0.64 H-DAC Series (GY)

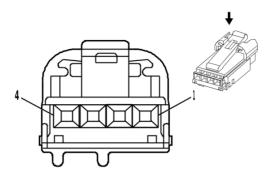
Terminal Part Information

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

S70L Steering Wheel Controls Switch - Left (K34)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	PK	1444	12V Reference	I	
2	_	_	_	Not Occupied	_	
3	_	GY	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	
4 - 5	_	_	_	Not Occupied	_	
6	_	BN	6136	Control	I	
7	_	_		Not Occupied	_	
8		BK	350	Ground	I	
9		D-GN / WH	7158	Cruise Control Indicator Dimming Signal	I	_
10	_	_	_	Not Occupied	_	

S70R Steering Wheel Controls Switch - Right (W1Y)



1709750

Connector Part Information

Harness Type: Steering Wheel OEM Connector: 31068-1010

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 0.64 H-DAC Series(BK)

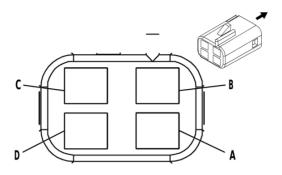
Terminal Part Information

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

S70R Steering Wheel Controls Switch - Right (W1Y)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1		BK	350	Ground		_
2		BN	6136	Control	1	_
3	_	PK	1444	12V Reference	I	_
4	_	L-GN	6818	Steering Wheel Controls Signal 1	Ι	_

S74 Tow/Haul Mode Switch



39660

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12047785 Service Connector: 12102900

Description: 4-Way F 150 Metri-Pack Series(BK)

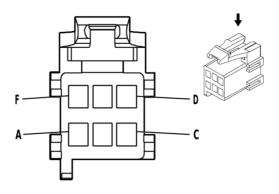
Terminal Part Information

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

S74 Tow/Haul Mode Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	BK / WH	351	Signal Ground		_
В	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	I	_
С	_	_	_	Not Occupied	_	_
D	0.35	L-BU	1788	Traction Control Switch Signal 1	I	_

S75 Traction Control Switch



304345

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12177195 Service Connector: 15305931

Description: 6-Way F 150 Metri-Pack Series(BK)

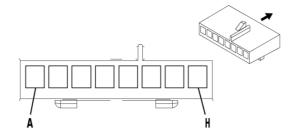
Terminal Part Information

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

S75 Traction Control Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A - B	_		-	Not Occupied		
С	0.35	BK / WH	351	Signal Ground	1	
D	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	I	
Е	_	_	_	Not Occupied	_	_
F	0.5	D-BU	6727	Vehicle Stability Control Switch Signal	I	_

S78 Turn Signal/Multifunction Switch X1



39746

Connector Part Information

Harness Type: Steering Column OEM Connector: 12064862

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 150 Metri-Pack Series(BK)

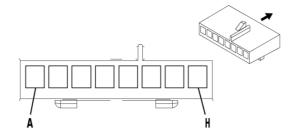
Terminal Part Information

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

S78 Turn Signal/Multifunction Switch X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A - B			-	Not Occupied	_	_
С		BK / WH	351	Signal Ground		_
D		TN	664	Hazard Switch Right Turn Signal	I	_
Е	_	D-GN	663	Hazard Switch Left Turn Signal	I	_
F	_	BK / WH	351	Signal Ground	I	_
G		WH	111	Hazard Warning Switch Signal	I	_
Н		_	_	Not Occupied	_	_

S78 Turn Signal/Multifunction Switch X2



39746

Connector Part Information

Harness Type: Steering Column OEM Connector: 12064862

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 150 Metri-Pack Series(BK)

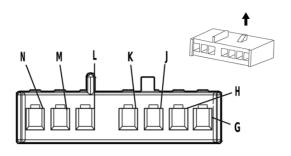
Terminal Part Information

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

S78 Turn Signal/Multifunction Switch X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A - B				Not Occupied	_	_
С		YE	525	High Beam Select Switch Low Beam Signal	I	_
D	_	BK / WH	351	Signal Ground	I	_
Е	_	YE	307	Headlamp Switch Flash Signal	I	_
F-H	_	_	_	Not Occupied	_	_

S78 Turn Signal/Multifunction Switch X3



811190

Connector Part Information

Harness Type: Steering Column OEM Connector: 15339058

Service Connector: Service by Harness - See Part Catalog

Description: 7-Way F 150 Metri-Pack Series(GY)

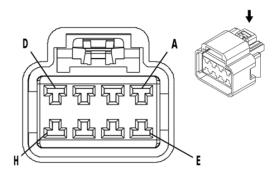
Terminal Part Information

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

S78 Turn Signal/Multifunction Switch X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
G-J		_	-	Not Occupied		_
K		L-GN	1715	Windshield Wiper Switch High Signal	I	_
L	_	PK	94	Windshield Washer Switch Signal	I	_
М	_	TN / BK	6009	Windshield Wiper Switch Low Reference	I	_
N	_	L-BU	1714	Windshield Wiper Switch Low Signal	I	_

S79D Window Switch - Driver



556473

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Driver

OEM Connector: 15459914

Service Connector: Service by Harness - See Part Catalog Description: 8-Way F 280 GT Series, Sealed(BK)

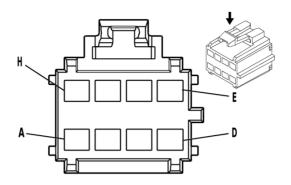
Terminal Part Information

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

S79D Window Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	3	L-BU	166	Right Front Window Up Switch Main Control Signal	_	_
В	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	I	_
С	3	D-GN	1001	Retained Accessory Power Ignition Voltage		_
D	3	TN	167	Right Front Window Down Switch Main Control Signal		_
E	_	_	_	Not Occupied	_	_
F	3	BK	450	Ground	I	_
G	3	D-BU	164	Left Front Window Motor Up Control	Ī	_
Н	3	BN	165	Left Front Window Motor Down Control	I	_

S79P Window Switch - Passenger



333036

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Passenger

OEM Connector: 12191825

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 280 Metri-Pack Series(BN)

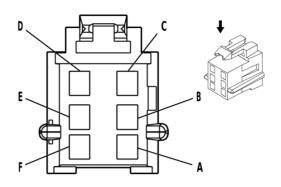
Terminal Part Information

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

S79P Window Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	3	D-GN	1001	Retained Accessory Power Ignition Voltage	I	_
В	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	I	_
С	0.35	BK	1850	Ground	I	_
D	3	TN	167	Right Front Window Down Switch Main Control Signal	I	_
Е	_	_	_	Not Occupied	_	_
F	3	BN	667	Right Front Window Motor Down Control	I	_
G	3	D-BU	666	Right Front Window Motor Up Control	Ī	_
Н	3	L-BU	166	Right Front Window Up Switch Main Control Signal	I	_

S85 Auxiliary Blower Motor Switch (C36)



62456

Connector Part Information

Harness Type: Auxiliary Heater Front Wiring Harness

OEM Connector: 12064752

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 280 Metri-Pack Series(BK)

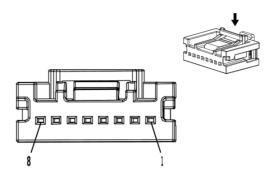
Terminal Part Information

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

S85 Auxiliary Blower Motor Switch (C36)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.35	BN / WH	230	Instrument Panel Lamp Dimming Control	I	_
В	0.35	BK	450	Ground	I	_
С	_	_	_	Not Occupied	_	
D	0.35	WH	1924	Auxiliary Blower Motor High Speed Control	Ι	_
Е	0.35	D-BU	1926	Auxiliary Blower Motor Low Speed Control 2	I	_
F	0.35	OG	1925	Auxiliary Blower Motor Medium Speed Control 2	I	_

S155 Lane Departure Warning Switch



4017639

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 33227522 Service Connector: 19354223

Description: 8-Way F Mini 50 Series(BK)

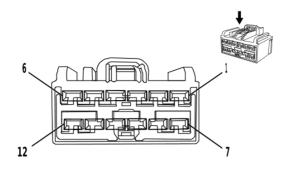
Terminal Part Information

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

S155 Lane Departure Warning Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE / GY	1382	LED Dimming Signal	I	_
2 - 3	_	_	-	Not Occupied	_	_
4	0.35	GY / WH	3153	Lane Departure Warning Disable Switch Signal	I	_
5	0.35	WH	6816	Indicator Dimming Control	I	_
6		_		Not Occupied	_	_
7	0.35	WH	3152	Lane Departure Warning Indicator Control		_
8	0.35	BK / WH	2151	Signal Ground	I	_

T1 Accessory DC/AC Power Inverter Module



2231648

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 10846814 Service Connector: 13518424

Description: 12-Way F 2.8 Kaizen Series(L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	19368264	J-35616-4A (PU)	J-38125-11A	

T1 Accessory DC/AC Power Inverter Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	_	_	_	Not Occupied	_	_
2	1	BK	5683	120V AC Phase A	I	_
3 - 5	_	_	_	Not Occupied	_	_
6	3	RD / WH	4140	Battery Positive Voltage	I	_
7	1	WH	5685	120V AC Neutral	I	_
8 - 9			1	Not Occupied	_	_
10	0.5	BK / WH	1351	Signal Ground		_
11	3	BK	550	Ground	I	_
12	0.35	D-GN	2266	DC/AC Inverter Control 2	Ī	_

T4M Radio Antenna

_

Connector Part Information

Harness Type: Antenna OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way

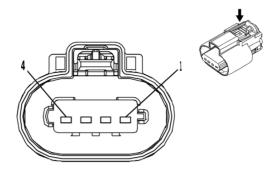
Terminal Part Information

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

T4M Radio Antenna

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
ВК	_		Coax Cable	Coax Cable	Ι	

T8A Ignition Coil 1



3240115

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13863211 Service Connector: 19367596

Description: 4-Way F 1.5 MX Series, Sealed(BK)

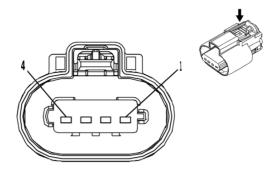
Terminal Part Information

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

T8A Ignition Coil 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	I	_
2	0.5	BK / D- BU	2129	Ignition Control Low Reference Bank 1	_	
3	0.5	D-BU / VT	2121	Ignition Control 1	_	_
4	0.75 0.75	VT / D- BU VT / GY	5291 1039	Powertrain Main Relay Fused Supply Voltage 2 Run/Crank Ignition 1 Voltage	 	L8T LV1

T8B Ignition Coil 2



3240115

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13863211 Service Connector: 19367596

Description: 4-Way F 1.5 MX Series, Sealed(BK)

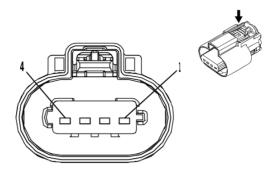
Terminal Part Information

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

T8B Ignition Coil 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground		_
2	0.5	BK / GY	2130	Ignition Control Low Reference Bank 2		_
3	0.5	D-BU / WH	2122	Ignition Control 2	I	_
4	0.75 0.75	VT / D- BU VT / BK	5292 1239	Powertrain Main Relay Fused Supply Voltage 3 Run/Crank Ignition 1 Voltage		L8T LV1

T8C Ignition Coil 3



3240115

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13863211 Service Connector: 19367596

Description: 4-Way F 1.5 MX Series, Sealed(BK)

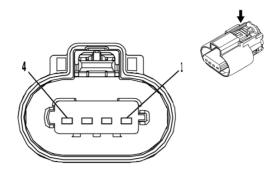
Terminal Part Information

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

T8C Ignition Coil 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground		
2	0.5	BK / D- BU	2129	Ignition Control Low Reference Bank 1	_	1
3	0.5	L-GN / D-BU	2123	Ignition Control 3	_	
4	0.75 0.75	VT / D- BU VT / GY	5291 1039	Powertrain Main Relay Fused Supply Voltage 2 Run/Crank Ignition 1 Voltage		L8T LV1

T8D Ignition Coil 4



3240115

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13863211 Service Connector: 19367596

Description: 4-Way F 1.5 MX Series, Sealed(BK)

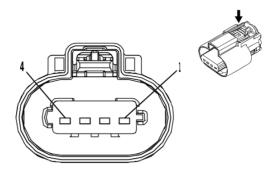
Terminal Part Information

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

T8D Ignition Coil 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground		_
2	0.5	BK / GY	2130	Ignition Control Low Reference Bank 2	I	_
3	0.5	YE / D- BU	2124	Ignition Control 4	I	_
4	0.75 0.75	VT / D- BU VT / BK	5292 1239	Powertrain Main Relay Fused Supply Voltage 3 Run/Crank Ignition 1 Voltage	 	L8T LV1

T8E Ignition Coil 5



3240115

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13863211 Service Connector: 19367596

Description: 4-Way F 1.5 MX Series, Sealed(BK)

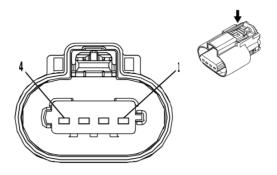
Terminal Part Information

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

T8E Ignition Coil 5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground		
2	0.5	BK / D- BU	2129	Ignition Control Low Reference Bank 1	-	
3	0.5	D-BU / GY	2125	Ignition Control 5	-	
4	0.75 0.75	VT / D- BU VT / GY	5291 1039	Powertrain Main Relay Fused Supply Voltage 2 Run/Crank Ignition 1 Voltage	I	L8T LV1

T8F Ignition Coil 6



3240115

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13863211 Service Connector: 19367596

Description: 4-Way F 1.5 MX Series, Sealed(BK)

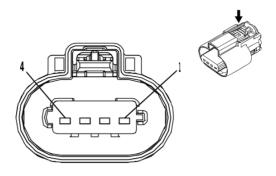
Terminal Part Information

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

T8F Ignition Coil 6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground		_
2	0.5	BK / GY	2130	Ignition Control Low Reference Bank 2	I	_
3	0.5	BN / D- BU	2126	Ignition Control 6	I	_
4	0.75 0.75	VT / D- BU VT / BK	5292 1239	Powertrain Main Relay Fused Supply Voltage 3 Run/Crank Ignition 1 Voltage	 	L8T LV1

T8G Ignition Coil 7



3240115

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13863211 Service Connector: 19367596

Description: 4-Way F 1.5 MX Series, Sealed(BK)

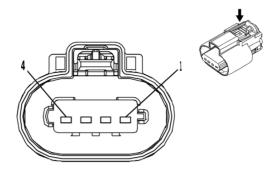
Terminal Part Information

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

T8G Ignition Coil 7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	_	
2	0.5	BK / D- BU	2129	Ignition Control Low Reference Bank 1	_	
3	0.5	L-GN / GY	2127	Ignition Control 7	Ι	_
4	0.75	VT / D- BU	5291	Powertrain Main Relay Fused Supply Voltage 2	1	_

T8H Ignition Coil 8



3240115

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13863211 Service Connector: 19367596

Description: 4-Way F 1.5 MX Series, Sealed(BK)

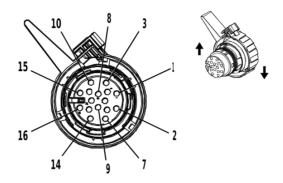
Terminal Part Information

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

T8H Ignition Coil 8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	_	
2	0.5	BK / GY	2130	Ignition Control Low Reference Bank 2	I	_
3	0.5	VT / WH	2128	Ignition Control 8	I	
4	0.75	VT / D- BU	5292	Powertrain Main Relay Fused Supply Voltage 3	I	_

T12 Automatic Transmission Assembly



3277917

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13878751 Service Connector: 19303772

Description: 16-Way F 1.5 LKS Series, Sealed(BK)

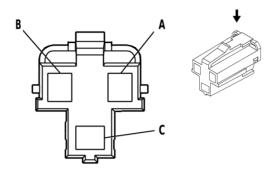
Terminal Part Information

Terminal Type II	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
1	13575237	J-35616-66 (YE)	J-38125-28	

T12 Automatic Transmission Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	_	_	_	Not Occupied	_	_
3	0.5	WH / GY	1786	Transmission Park/Neutral Signal 1	I	_
4	0.5	RD / L- GN	1840	Battery Positive Voltage	I	_
5	0.75	BK / WH	1551	Signal Ground	I	
6	0.5	WH / D- BU	6311	Cruise/ETC/TCC Brake Signal	I	
7	_	_		Not Occupied	_	
8	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	I	
9	0.5	VT / YE	5985	Accessory Wake-Up Serial Data	I	
10	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	
11	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1		_
12	0.5	VT / BK	2139	Run/Crank Ignition 1 Voltage	I	
13	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1		
14	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	
15	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	_
16	0.5	BN / VT	6399	Replicated Transmission Output Speed Signal	I	

X80A Accessory Power Receptacle - Center Console 1



362748

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12176836 Service Connector: 19369634

Description: 3-Way F 280 Metri-Pack Series(GY)

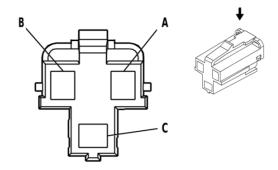
Terminal Part Information

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

X80A Accessory Power Receptacle - Center Console 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	1	RD / WH	640	Battery Positive Voltage	I	_
В	_	_	_	Not Occupied	_	_
С	1	BK	550	Ground	I	_

X80B Accessory Power Receptacle - Center Console 2



362748

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12176836 Service Connector: 19369634

Description: 3-Way F 280 Metri-Pack Series(GY)

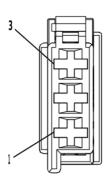
Terminal Part Information

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

X80B Accessory Power Receptacle - Center Console 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	1	RD / WH	1040	Battery Positive Voltage	I	_
В	_	_	_	Not Occupied		_
С	1	BK	550	Ground	I	_

X81 Accessory Power Receptacle - 110V AC X1





2039656

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 10865339 Service Connector: 86790560

Description: 3-Way F 1.6 Micro-Timer Series(BK)

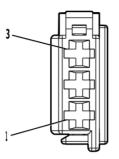
Terminal Part Information

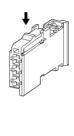
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
1	Not required	J-35616-14 (GN)	No Tool Required	

X81 Accessory Power Receptacle - 110V AC X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU	6807	DC/AC Inverter Control	Ι	_
2	_	_	_	Not Occupied	_	_
3	1	BK	5683	120V AC Phase A	I	_

X81 Accessory Power Receptacle - 110V AC X2





2236412

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13648774 Service Connector: 19367740

Description: 3-Way F 1.6 Timer Series, Sealed(GY)

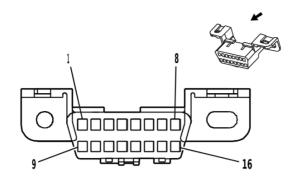
Terminal Part Information

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

X81 Accessory Power Receptacle - 110V AC X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-GN	2266	DC/AC Inverter Control 2	I	_
2	_	_	_	Not Occupied	_	_
3	1	WH	5685	120V AC Neutral	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

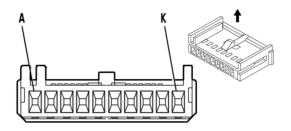
Terminal Type ID Terminated Lead		Diagnostic Test Probe	Terminal Removal Tool	
I	13580059	J-35616-14 (GN)	J-38125-12A	

X84 Data Link Connector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	_
2 - 3	_	_	_	Not Occupied	_	_
4	0.5	BK / WH	351	Signal Ground	I	_
5	0.5	BK / WH	351	Signal Ground	I	_
6	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	_
7 - 13	_	_	_	Not Occupied	_	_
14	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	I	_
15	_	_	_	Not Occupied	_	_
16	0.8	RD / WH	640	Battery Positive Voltage	I	_

6-338

X85 Steering Wheel Air Bag Coil X1



1593397

Connector Part Information

Harness Type: Steering Column OEM Connector: 15393433

Service Connector: Service by Harness - See Part Catalog Description: 10-Way F 0.64 Micro-Pack Series(BK)

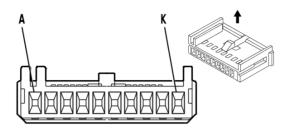
Terminal Part Information

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

X85 Steering Wheel Air Bag Coil X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А		BK	350	Ground	I	
В		TN	28	Horn Relay Control		
С		D-GN / WH	7158	Cruise Control Indicator Dimming Signal	I	
D-E		_	_	Not Occupied	_	
F	_	PK	1444	12V Reference	I	_
G	_	BN	6136	Control	I	_
Н		L-GN	6818	Steering Wheel Controls Signal 1	I	_
J			_	Not Occupied	_	
K		GY	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	ı	_

X85 Steering Wheel Air Bag Coil X2



1593397

Connector Part Information

Harness Type: Steering Wheel OEM Connector: 15393433

Service Connector: Service by Harness - See Part Catalog Description: 10-Way F 0.64 Micro-Pack Series(BK)

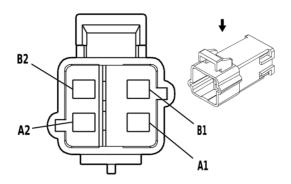
Terminal Part Information

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

X85 Steering Wheel Air Bag Coil X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	_	GY	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	_
В			_	Not Occupied	_	_
С	_	L-GN	6818	Steering Wheel Controls Signal 1	I	_
D	_	BN	6136	Control	ĺ	_
Е	_	PK	1444	12V Reference	I	_
F-G	_	_	_	Not Occupied	_	_
Н		D-GN / WH	7158	Cruise Control Indicator Dimming Signal	I	_
J		TN	28	Horn Relay Control		_
K		BK	350	Ground	I	_

X85 Steering Wheel Air Bag Coil X3



684931

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15336476 Service Connector: 88987998

Description: 4-Way M 280 Metri-Pack Series(YE)

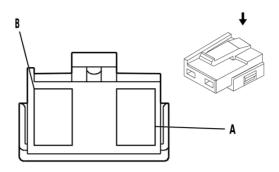
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-5 (PU)	No Tool Required	

X85 Steering Wheel Air Bag Coil X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.5	TN	3021	Steering Wheel Air Bag Stage 1 High Control	I	_
A2	0.5	BN	3020	Steering Wheel Air Bag Stage 1 Low Control	I	_
B1 - B2	_	_	_	Not Occupied	_	_

X87RB Sliding Door Jamb Contact Plate - Right Body (Body)



38274

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12034343 Service Connector: 12101821

Description: 2-Way F 280 Metri-Pack 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	

X87RB Sliding Door Jamb Contact Plate - Right Body (Body)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	TN	294	Door Lock Actuator Unlock Control	_	_
В	1	GY	295	Door Lock Actuator Lock Control		_

X87RB Sliding Door Jamb Contact Plate - Right Body (Door)

_

Connector Part Information

Harness Type: Rear Side Door Wiring Harness

OEM Connector: 33148350

Service Connector: Service by Harness - See Part Catalog

Description: Striker Plate

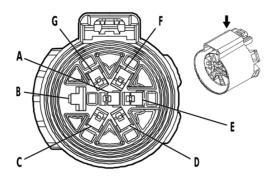
Terminal Part Information

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

X87RB Sliding Door Jamb Contact Plate - Right Body (Door)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.8	TN	294	Door Lock Actuator Unlock Control	_	_
В	0.8	GY	295	Door Lock Actuator Lock Control	I	_

X88 Trailer Connector (-NE7)



2056936

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 13857223

Service Connector: Service by Harness - See Part Catalog
Description: 7-Way F 280, 630 Metri-Pack Series, Sealed(BK)

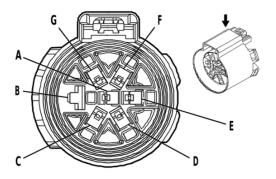
Terminal Part Information

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	

X88 Trailer Connector (-NE7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	1	L-GN	1624	Trailer Backup Lamp Control	II	_
В	8	WH	22	Trailer Ground	I	_
С	3	D-BU	47	Trailer Auxiliary Control	II	_
D	1	D-GN	1619	Right Rear Trailer Stop/Turn Lamp Control	II	_
Е	3	RD / BK	742	Battery Positive Voltage	II	_
F	1	BN	2109	Trailer Park Lamp Control	II	_
G	1	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	II	_

X88 Trailer Connector (NE7)



2056936

Connector Part Information

Harness Type: Trailer Jumper Wiring Harness

OEM Connector: 13583072

Service Connector: Service by Harness - See Part Catalog
Description: 7-Way F 280, 630 Metri-Pack Series, Sealed(BK)

Terminal Part Information

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

X88 Trailer Connector (NE7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	_	L-GN	1624	Trailer Backup Lamp Control	I	_
В	_	WH	22	Trailer Ground		_
С	_	D-BU	47	Trailer Auxiliary Control	I	_
D	_	D-GN	1619	Right Rear Trailer Stop/Turn Lamp Control	I	_
Е	_	RD / BK	742	Battery Positive Voltage	I	_
F	_	BN	2109	Trailer Park Lamp Control	I	_
G	_	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	I	_

X92 USB Receptacle





3270479

Connector Part Information

Harness Type: Instrument Panel Wiring Harness USB

OEM Connector: 13668063

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 5-Way M 2.0 Mini-B USB Type(BK)

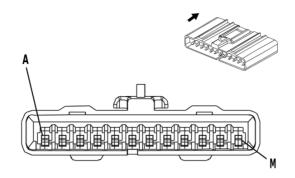
Terminal Part Information

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

X92 USB Receptacle

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

Splice Pack Connector End Views JX200 Splice Pack



966355

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12176461 Service Connector: 15305914

Description: 12-Way F 150 GT Series(BK)

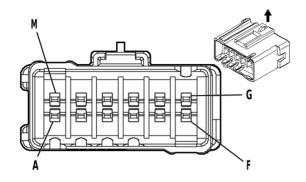
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13591480	J-35616-14 (GN)	J-38125-215A

JX200 Splice Pack

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.35	GN	5060	Low Speed GMLAN Serial Data	I	_
В	0.35	GN	5060	Low Speed GMLAN Serial Data	I	
С	0.35	GN	5060	Low Speed GMLAN Serial Data	I	_
D	0.35	GN	5060	Low Speed GMLAN Serial Data	I	_
Е	0.35	GN	5060	Low Speed GMLAN Serial Data	I	
F	0.35	GN	5060	Low Speed GMLAN Serial Data	l	
G	0.35	GN	5060	Low Speed GMLAN Serial Data	I	_
Н	0.35	GN	5060	Low Speed GMLAN Serial Data	I	_
J	0.5	GN	5060	Low Speed GMLAN Serial Data	I	
K	0.5	GN	5060	Low Speed GMLAN Serial Data	I	
L	0.5	GN	5060	Low Speed GMLAN Serial Data	I	_
М	0.5	GN	5060	Low Speed GMLAN Serial Data	I	_

JX250 Splice Pack



803605

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15305288 Service Connector: 12167610

Description: 12-Way F 280 Metri-Pack Series(BK)

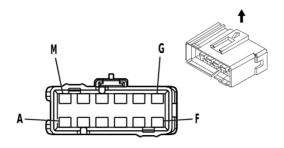
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
1	13575721	J-35616-4A (PU)	J-38125-553

JX250 Splice Pack

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
Α	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	
В	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1	I	
С	0.5	D-BU	2500	High Speed GMLAN Serial Data [+] 1		
D-J	_	_	_	Not Occupied	_	
K	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1	I	_
L	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1		
М	0.5	WH	2501	High Speed GMLAN Serial Data [-] 1		

JX347 Splice Pack



365987

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12191928 Service Connector: 88986418

Description: 12-Way F 280 Metri-Pack Series(BK)

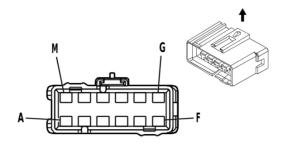
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13579958	J-35616-4A (PU)	J-38125-11A

JX347 Splice Pack

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	3	BK	450	Ground	I	_
В	_	_	_	Not Occupied	_	_
С	0.35	BK	450	Ground	I	_
D	0.35	BK	450	Ground	I	_
Е	5	BK	450	Ground		_
F				Not Occupied	_	_
G	5	BK	450	Ground		_
H-L			_	Not Occupied		_
М	3	BK	450	Ground	I	AG1

JX348 Splice Pack



365987

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12191928 Service Connector: 88986418

Description: 12-Way F 280 Metri-Pack Series(BK)

Terminal Part Information

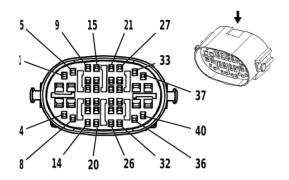
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13579958	J-35616-4A (PU)	J-38125-11A

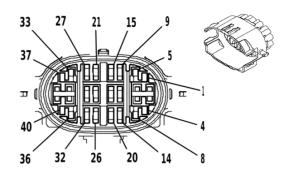
JX348 Splice Pack

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
А	0.35	BK	1850	Ground	I	_
В	0.8	BK	1850	Ground	I	_
С	3	BK	1850	Ground	I	_
D	0.35	BK	1850	Ground	I	_
Е	_	_	_	Not Occupied	_	_
F	0.5	BK	1850	Ground	I	_
G	0.5	BK / WH	2751	Signal Ground	I	_
Н	_	_	_	Not Occupied	_	_
J	1	BK	1850	Ground	I	_
K - M	_	_	_	Not Occupied	_	_

6-350

Inline Harness Connector End Views X100 Instrument Panel Wiring Harness to Engine Wiring Harness





1713502 1713503

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13601803 Service Connector: 19166997

Description: 40-Way F 150, 280 GT Series, Sealed(BK)

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13605375 Service Connector: 19169297

Description: 40-Way M 150, 280 GT Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
1	13575403	J-35616-4A (PU)	J-38125-215A
II	13579779	J-35616-14 (GN)	J-38125-215A
III	Not Available	J-35616-14 (GN)	J-38125-215A
IV	13576358	J-35616-5 (PU)	J-38125-215A
V	13579781	J-35616-3 (GY)	J-38125-215A
VI	19368625	J-35616-3 (GY)	J-38125-215A

X100 Instrument Panel Wiring Harness to Engine Wiring Harness

Pin	Size	Color	Circuit	Terminal	Option	Function	Pin	Size	Color	Circuit	Terminal	Option
	0120	00101	Oncore	Type ID	Option	Tunction		0120	00101	Oncar	Type ID	Орион
1	0.35	WH / D-BU	6311	=		Cruise/ETC/ TCC Brake Signal	1	0.5	WH / D-BU	6311	V	
2	0.8	G	52	-		Blower Motor High Speed Control	2	1	WH / BK	52	IV	
3	0.8	L-BU	72	Ι		Blower Motor Medium 2 Control	3	2	D-BU / YE	72	IV	
4	0.5	G	1732	=		Control Mod- ule 12V Reference 3	4	0.5	VT / RD	1732	٧	
5			1	1		Not Occu- pied	5				1	
6	0.8	TN	63	I	_	Blower Motor Medium 1 Control	6	1	YE / BN	63	IV	_
7	2	BK	1250	Ī	_	Ground	7	2	BK	1250	IV	_

X100 Instrument Panel Wiring Harness to Engine Wiring Harness (cont'd)

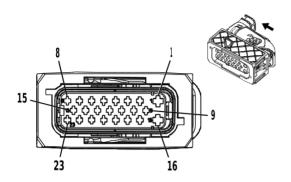
		_				Tarriess to						
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.8	YE	60	II		Blower Motor Low Speed Control	8	1	YE	60	V	
9 - 13	_	_	_	_	_	Not Occu- pied	9 - 13	_	_	_	_	_
14	0.5	L-GN	66	II	_	A/C Request Signal	14	0.5	BN	66	V	_
15	0.5	WH / D-BU	5986	II	_	Serial Data Communica- tion Enable	15	0.5	WH / D-BU	5986	V	_
16	0.5	L-GN	66	II	_	A/C Request Signal	16	0.5	BN / WH	66	V	_
17	0.75	L-GN / GY	333	II	_	Brake Fluid Level Signal	17	0.75	L-GN / GY	333	V	_
18	0.5	BN / WH	419	II	_	Check Engine Indicator Control	18	0.5	BN / WH	419	V	_
19	0.5	D-BU	5985	II	_	Accessory Wake-Up Se- rial Data	19	0.5	VT / YE	5985	V	_
20	_	_	_	_	_	Not Occu- pied	20	_	_	_	_	_
21	0.35	BK / D-BU	1271	III	_	Accelerator Pedal Posi- tion Low Reference 1	21	0.5	BK / D-BU	1271	VI	_
22	0.35	WH / RD	1164	III	_	Accelerator Pedal Posi- tion 5V Reference 1	22	0.5	WH / RD	1164	VI	_
23	0.35	BN / RD	1274	III	_	Accelerator Pedal Posi- tion 5V Reference 2	23	0.5	BN / RD	1274	VI	_
24	0.5	BK / WH	451	II	_	Signal Ground	24	0.75	BK / WH	451	V	_
25	0.5	WH	5075	II	_	Current Sen- sor Signal	25	0.5	WH / YE	5075	V	_
26	0.5	BN	5077	II	_	Current Sen- sor Low Reference	26	0.5	BK / VT	5077	V	_
27	0.35	YE / WH	1161	III	_	Accelerator Pedal Posi- tion Signal 1	27	0.5	YE / WH	1161	VI	_
28	0.35	BK / VT	1272	III	_	Accelerator Pedal Posi- tion Low Reference 2	28	0.5	BK / VT	1272	VI	_
29	0.35	L-GN / WH	1162	III		Accelerator Pedal Posi- tion Signal 2	29	0.5	L-GN / WH	1162	VI	_
30	0.5	PK	5076	II	_	Current Sen- sor Voltage Reference	30	0.5	D-BU / VT	5076	V	_
31 - 32	_	_	_	_	_	Not Occu- pied	31 - 32	_	_	_	_	_

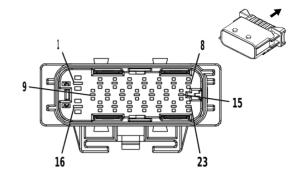
6-352 Electrical Component and Inline Harness Connector End Views

X100 Instrument Panel Wiring Harness to Engine Wiring Harness (cont'd)

					_		_		9		•	•
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
33	0.5	D-BU	2500	II		High Speed GMLAN Seri- al Data [+] 1	33	0.5	D-BU	2500	٧	
34	0.5	BK / L-GN	580	I		Engine Control Sensors Low Reference 2	34	0.5	BK / L-GN	580	IV	ı
35	0.5	D-BU / GY	636	I	I	Ambient Air Temperature Sensor Sig- nal	35	0.5	D-BU / GY	636	IV	1
36	0.5	D-BU	2500	II	1	High Speed GMLAN Seri- al Data [+] 1	36	0.5	D-BU	2500	V	1
37	0.5	WH	2501	II		High Speed GMLAN Seri- al Data [-] 1	37	0.5	WH	2501	V	1
38 - 39		_	_	_	_	Not Occu- pied	38 - 39				_	
40	0.5	WH	2501	II	_	High Speed GMLAN Seri- al Data [-] 1	40	0.5	WH	2501	V	_

X101 Engine Wiring Harness to Chassis Wiring Harness





2906942 2906943

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13674800 Service Connector: 19300480

Description: 23-Way F 1.5 DSQ, 2.8 ATS Series,

Sealed(BK)

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 13674783

Service Connector: Service by Harness - See Part Catalog

Description: 23-Way M 1.5 DSQ, 2.8 ATS Series,

Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	19368143	J-35616-14 (GN)	J-38125-215A		
II	Not required	J-35616-3 (GY)	No Tool Required		

X101 Engine Wiring Harness to Chassis Wiring Harness

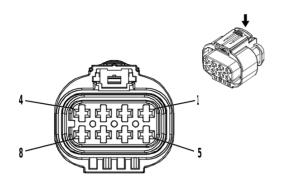
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1		_	1		Not Occu- pied	1	_			1	_
2	0.5	D-BU	2500	I		High Speed GMLAN Seri- al Data [+] 1	2	0.5	D-BU	2500	II	_
3	0.5	WH	2501	I		High Speed GMLAN Seri- al Data [-] 1	3	0.5	WH	2501	II	_
4	0.5	YE	2375	_	l	Left Rear Outer Park- ing Assist Sensor Sig- nal	4	0.5	YE	2375	II	_
5	0.5	YE / D-BU	2376	_	ı	Left Rear Middle Park- ing Assist Sensor Sig- nal	5	0.5	YE / D-BU	2376	=	
6		_	_	_	_	Not Occu- pied	6	_	_	_		_
7	0.5	BK / GY	2379	I	_	Object Sen- sor Low Reference	7	0.5	BK / GY	2379	II	_
8	0.5	L-GN / GY	465	I	_	Fuel Pump Primary Re- lay Control	8	0.5	L-GN / GY	465	II	_

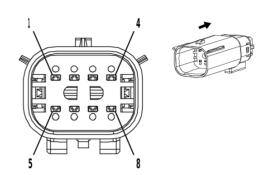
6-354 Electrical Component and Inline Harness Connector End Views

X101 Engine Wiring Harness to Chassis Wiring Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	_		_			Not Occu- pied	9		_			
10	0.5	YE / WH	2377	_	ı	Right Rear Middle Park- ing Assist Sensor Sig- nal	10	0.5	YE / WH	2377	=	-
11	_	_	_	_	_	Not Occu- pied	11	_	_	_	_	_
12	0.5	VT / L-GN	4320	_	١	Powertrain Sensor Bus Enable	12	0.5	VT / L-GN	4320	=	ı
13			_		ı	Not Occu- pied	13	_	_			
14	0.5	BN / WH	2374	I	_	Object Sen- sor Voltage Reference	14	0.5	BN / WH	2374	II	_
15	0.5	YE / VT	2378	I	_	Right Rear Outer Park- ing Assist Sensor Sig- nal	15	0.5	YE / VT	2378	II	_
16			_		ı	Not Occu- pied	16	_	_			
17	0.5	D-BU / BN	4498	I		High Speed GMLAN Seri- al Data [+] 7	17	0.5	D-BU / BN	4498	II	_
18	0.5	WH	4499	I	_	High Speed GMLAN Seri- al Data [-] 7	18	0.5	WH	4499	II	_
19	_	_	_	_	_	Not Occu- pied	19	_	_	_	_	_
20	0.5	WH / D-BU	5986	I	_	Serial Data Communica- tion Enable	20	0.5	WH / D-BU	5986	II	_
21	_	_		_	_	Not Occu- pied	21	_	_		_	_
22	0.5	D-BU	2500	I	_	High Speed GMLAN Seri- al Data [+] 1	22	0.5	D-BU	2500	II	_
23	0.5	WH	2501	I	_	High Speed GMLAN Seri- al Data [-] 1	23	0.5	WH	2501	II	_

X102 Chassis Wiring Harness to Fuel Tank Wiring Harness





3749582 2667653

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 33180742

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 2.8 Series, Sealed(L-GY)

Connector Part Information

Harness Type: Fuel Tank Wiring Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way M (L-GY)

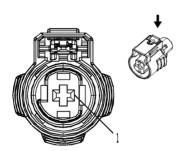
Terminal Part Information

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

X102 Chassis Wiring Harness to Fuel Tank Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	GY	120	Ι	_	Fuel Pump Control	1	2.5	GY	120	II	_
2	2.5	YE / GY	4137	I		Fuel Pump Supply Volt- age Phase 2	2	2.5	YE / GY	4137	II	1
3	2.5	WH / BN	4138	Ι		Fuel Pump Supply Volt- age Phase 3	3	2.5	WH / BN	4138	II	1
4	0.5	BK	7444	_	١	Fuel Pump Assembly Shield Ground	4	0.5	ВК	7444	Ш	
5	0.5	D-BU / VT	1589	Ι		Primary Fuel Level Sensor Signal	5	0.5	D-BU / VT	1589	II	
6	0.5	BK / L-GN	6281	I	_	Fuel Level Sensor Low Reference	6	0.5	BK / GN	6281	II	_
7 - 8		_		_		Not Occu- pied	7 - 8	_			_	

X103 Engine Wiring Harness to Starter Motor Jumper Wiring Harness



2717134

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 15526411 Service Connector: 19300471

Description: 1-Way F 2.8 MCP Series, Sealed(BK)

Connector Part Information

Harness Type: Starter Motor Jumper Wiring Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way M (BK)

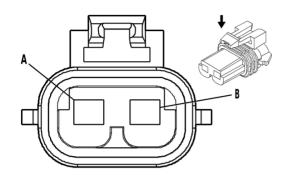
Terminal Part Information

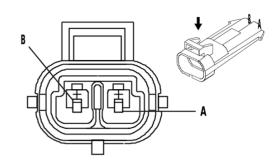
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	No Tool Required	No Tool Required

X103 Engine Wiring Harness to Starter Motor Jumper Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	4	YE	6	I	ı	Starter Sole- noid Crank Ignition Volt- age	1	4	YE	6	II	ı

X104 Instrument Panel Wiring Harness to Air Bag Jumper Wiring Harness





684799 879383

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12077900 Service Connector: 12116247

Description: 2-Way F 280 Metri-Pack Series, Sealed(BK)

Connector Part Information

Harness Type: Air Bag Jumper Wiring Harness

OEM Connector: 15317807

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 280 Metri-Pack Series(BK)

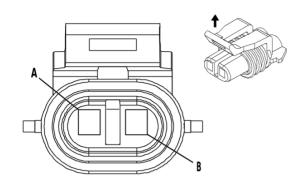
Terminal Part Information

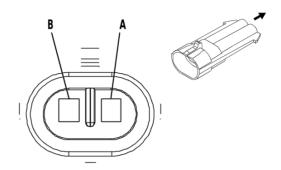
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

X104 Instrument Panel Wiring Harness to Air Bag Jumper Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.5	D-BU / WH	6619	I	ı	Front Middle Impact Dis- criminating Sensor Low Reference	А	0.5	D-BU / WH	6619	II	ı
В	0.5	BN / WH	6618	I	_	Front Middle Impact Dis- criminating Sensor Sig- nal	В	0.5	BN / WH	6618	II	_

X109 Engine Wiring Harness to Underhood Lamp Wiring Harness





635009 333041

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 12052641 Service Connector: 13586114

Description: 2-Way F 150 Metri-Pack Series, Sealed(BK)

Connector Part Information

Harness Type: Underhood Lamp Wiring Harness

OEM Connector: 12162000

Service Connector: Service by Harness - See Part Catalog Description: 2-Way M 150 Metri-Pack Series, Sealed(BK)

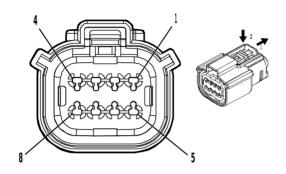
Terminal Part Information

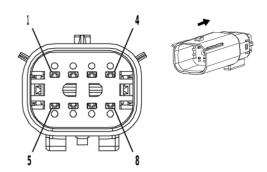
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X109 Engine Wiring Harness to Underhood Lamp Wiring Harness

				•	•				•			
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.5	VT / RD	1732	I		Control Mod- ule 12V Reference 3	Α	0.5	OG	1732	=	
В	0.75	BK	1250	I	_	Ground	В	0.5	BK	1250	Ш	_

X130 Engine Wiring Harness to Camshaft Position Sensor Jumper Wiring Harness





4846407 2667653

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 35063116 Service Connector: 84928314

Description: 8-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

Harness Type: Camshaft Position Sensor Jumper Wiring

Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way M (BK)

Terminal Part Information

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

X130 Engine Wiring Harness to Camshaft Position Sensor Jumper Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	GY / D-BU	5300	_	I	Intake Cam- shaft Posi- tion Sensor 1 Voltage Reference	1	0.5	GY / D-BU	5300	II	ı
2	0.5	BK / L-GN	5301	I		Intake Cam- shaft Posi- tion Sensor Low Refer- ence 1	2	0.5	BK / L-GN	5301	II	_
3	0.5	YE / VT	5275	1		Intake Cam- shaft Posi- tion Sensor 1	3	0.5	YE / VT	5275	II	
4	0.5	D-BU	179	I	_	Engine Oil Pump Con- trol	4	0.5	D-BU	179	II	_
5	0.5	VT / BN	5284	-	I	Intake Cam- shaft Posi- tion Actuator Solenoid Valve 1	5	0.5	VT / BN	5284	II	-
6	0.5	BK / BN	6753	I	_	Camshaft Position Ac- tuator Sole- noid Valve W Low Refer- ence	6	0.5	BK / BN	6753	II	_

X130 Engine Wiring Harness to Camshaft Position Sensor Jumper Wiring Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
7	0.5	VT / D-BU	5293	I	ı	Powertrain Main Relay Fused Sup- ply Voltage 4	7	0.5	VT / D-BU	5293	II	I
8	_	_	_	_	_	Not Occu- pied	8	_	_	_	_	_

X135 Engine Jumper Wiring Harness to Oil Pump Flow Control Solenoid Valve Wire Wiring Harness (L8T)

Connector Part Information

Harness Type: Engine Jumper Wiring Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F

Connector Part Information

Harness Type: Oil Pump Flow Control Solenoid Valve Wire

Wiring Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M

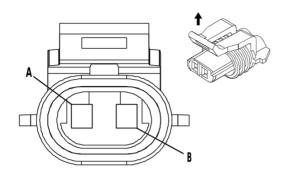
Terminal Part Information

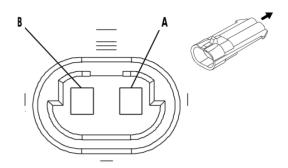
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	No Tool Required	No Tool Required

X135 Engine Jumper Wiring Harness to Oil Pump Flow Control Solenoid Valve Wire Wiring Harness (L8T)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	_	VT / D-BU	5293	I	_	Powertrain Main Relay Fused Sup- ply Voltage 4	1	_	VT / D-BU	5293	II	
2	_	D-BU	179	I	_	Engine Oil Pump Con- trol	2	_	D-BU	179	II	_

X141 Instrument Panel Wiring Harness to Brake Fluid Level Indicator Wiring Harness





537107 605500

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12052644 Service Connector: 19368034

Description: 2-Way F 150 Metri-Pack Series, Sealed(GY)

Connector Part Information

Harness Type: Brake Fluid Level Indicator Wiring Harness

OEM Connector: 12162343

Service Connector: Service by Harness - See Part Catalog Description: 2-Way M 150 Metri-Pack Series, Sealed(GY)

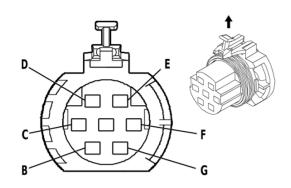
Terminal Part Information

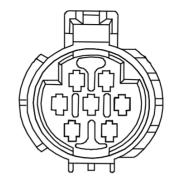
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	Not required	J-35616-14 (GN)	No Tool Required		
II	Not required	J-35616-3 (GY)	No Tool Required		

X141 Instrument Panel Wiring Harness to Brake Fluid Level Indicator Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.5	TN / WH	33	I		Brake Warn- ing Indicator Control	А	0.5	TN / WH	33	II	1
В	0.5	BK / WH	351	I	_	Signal Ground	В	0.5	ВК	350	II	_

X150 Instrument Panel Wiring Harness to Forward Lamp Wiring Harness





655687 258231

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12110751

Service Connector: Service by Harness - See Part Catalog

Description: 7-Way F 280 Metri-Pack Flexlock Series,

Sealed(BK)

Connector Part Information

Harness Type: Forward Lamp Wiring Harness

OEM Connector: 12110753

Service Connector: Service by Harness - See Part Catalog Description: 7-Way M 280 Metri-Pack Series, Sealed(BK)

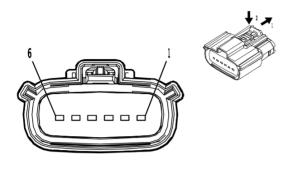
Terminal Part Information

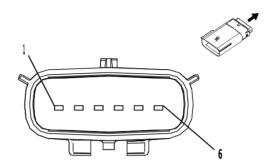
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
1	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	No Tool Required	No Tool Required
III	Not required	J-35616-5 (PU)	No Tool Required
IV	Not required	No Tool Required	No Tool Required

X150 Instrument Panel Wiring Harness to Forward Lamp Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.5	BN / GN	109	I	_	Hood Ajar Switch Sig- nal	А	0.5	BN / GN	109	III	_
В	0.5	PU	5531	_	١	Hood Closed Switch Sig- nal	В	0.5	BK / BN	5531	III	_
С	0.5	D-BU / GY	636	I	ı	Ambient Air Temperature Sensor Sig- nal	С	0.5	D-BU / GY	636	III	1
D	0.5	BK / D-BU	61	-	-	Ambient Air Temperature Sensor Low Reference	D	0.5	BK / D-BU	61	II	-
Е	0.5	BK / L-GN	580	II	LV1/ L8T	Engine Control Sensors Low Reference 2	E	0.5	BK / L-GN	580	IV	LV1/ L8T
F	0.5	D-BU / GY	636	II	LV1/ L8T	Ambient Air Temperature Sensor Sig- nal	F	0.5	D-BU / GY	636	IV	LV1/ L8T
G	_	_	_	_	_	Not Occu- pied	G	_	_	_	_	_

X155 Engine Wiring Harness to Engine Coolant Temperature Sensor Wiring Harness (L8T)





5126816 3277908

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 35432115 Service Connector: 86801953

Description: 6-Way F 1.5 Series, Sealed(BK)

Connector Part Information

Harness Type: Engine Coolant Temperature Sensor Wiring

Harness

OEM Connector: 33481-6601 Service Connector: 86801953

Description: 6-Way M 1.5 MX Series, Sealed(BK)

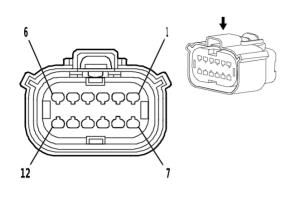
Terminal Part Information

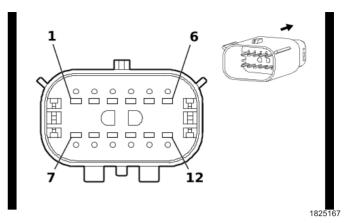
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	No Tool Required	No Tool Required

X155 Engine Wiring Harness to Engine Coolant Temperature Sensor Wiring Harness (L8T)

												, ,
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	D-BU	410	_		Engine Cool- ant Tempera- ture Sensor Signal	1	0.5	D-BU	410	=	I
2	0.5	BK / YE	548	I	_	Engine Control Sensors Low Reference 1	2	0.5	BK / YE	548	II	I
3	0.5	YE / BN	331	Ι		Oil Pressure Sensor Sig- nal	3	0.5	YE / BN	331	II	
4	0.5	BK / YE	548	-	ı	Engine Control Sensors Low Reference 1	4	0.5	BK / YE	548	II	1
5	0.5	WH / RD	480	_	_	Engine Control Vehicle Sensors 5 Volt Reference 1	5	0.5	WH / RD	480	II	
6				_		Not Occu- pied	6	_	_		_	_

X160 Engine Wiring Harness to Fuel Injector Wiring Harness (L8T)





Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13595088 Service Connector: 19352907

Description: 12-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

OEM Connector: 13503542 Service Connector: 19352907

Description: 12-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

1825165

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368973	J-35616-2A (GY)	J-38125-217
II	Not required	No Tool Required	No Tool Required

X160 Engine Wiring Harness to Fuel Injector Wiring Harness (L8T)

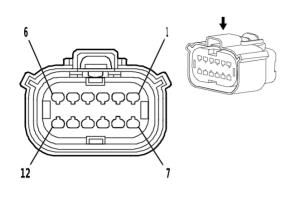
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BN / WH	4901	I	I	Direct Fuel Injector High Voltage Sup- ply Cylinder 1	1	0.75	BN / WH	4901	II	_
2	0.75	L-GN / GY	4903	I	I	Direct Fuel Injector High Voltage Sup- ply Cylinder 3	2	0.75	L-GN / GY	4903	II	_
3	0.75	L-GN / WH	4905	1	ı	Direct Fuel Injector High Voltage Sup- ply Cylinder 5	3	0.75	L-GN / WH	4905	II	_
4	0.75	WH / YE	4907	I	I	Direct Fuel Injector High Voltage Sup- ply Cylinder 7	4	0.75	WH / YE	4907	II	_
5	0.75	BN	4801	l	_	Direct Fuel Injector High Voltage Con- trol Cylinder 1	5	0.75	BN	4801	II	_
6		_	_	_	_	Not Occu- pied	6	_	_	_	_	_

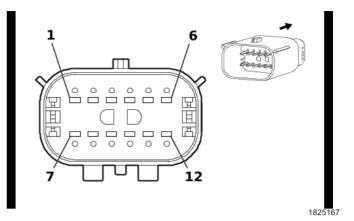
6-366 Electrical Component and Inline Harness Connector End Views

X160 Engine Wiring Harness to Fuel Injector Wiring Harness (L8T) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
7	0.75	L-GN	4803	I	I	Direct Fuel Injector High Voltage Con- trol Cylinder 3	7	0.75	L-GN	4803	Ш	ı
8	0.75	WH / L-GN	4805	-		Direct Fuel Injector High Voltage Con- trol Cylinder 5	8	0.75	WH / L-GN	4805	=	ı
9	0.75	YE / GY	4807	I	I	Direct Fuel Injector High Voltage Con- trol Cylinder 7	9	0.75	YE / GY	4807	Ш	ı
10	0.5	WH / RD	480	I	I	Engine Control Vehicle Sensors 5 Volt Reference 1	10	0.5	WH / RD	480	II	ı
11	0.5	D-BU / WH	2918	I	ı	Fuel Rail Pressure Sensor Sig- nal	11	0.5	D-BU / WH	2918	Ш	ı
12	0.5	BK / YE	548	I	_	Engine Control Sensors Low Reference 1	12	0.5	BK / YE	548	=	_

X160 Engine Wiring Harness to Fuel Injector Wiring Harness (LV1)





1825165

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13609715 Service Connector: 19352907

Description: 12-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

OEM Connector: 13503543 Service Connector: 19352907

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	19368973	J-35616-2A (GY)	J-38125-217
II	Not required	No Tool Required	No Tool Required

X160 Engine Wiring Harness to Fuel Injector Wiring Harness (LV1)

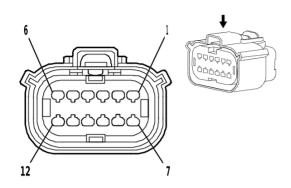
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	ı					Not Occu- pied	1	ı	ı			_
2	0.75	BN / WH	4901	-		Direct Fuel Injector High Voltage Sup- ply Cylinder 1	2	0.75	BN / WH	4901	=	
3	0.75	L-GN / GY	4903	1	ı	Direct Fuel Injector High Voltage Sup- ply Cylinder 3	3	0.75	L-GN / GY	4903	Ш	
4	0.75	L-GN / WH	4905	I	l	Direct Fuel Injector High Voltage Sup- ply Cylinder 5	4	0.75	L-GN / WH	4905	=	-
5	0.75	BN	4801	I	-	Direct Fuel Injector High Voltage Con- trol Cylinder 1	5	0.75	BN	4801	=	-
6 - 7		_	_	_	_	Not Occu- pied	6 - 7		_	_	_	_
8	0.75	L-GN	4803	I	_	Direct Fuel Injector High Voltage Con- trol Cylinder 3	8	0.75	L-GN	4803	II	_

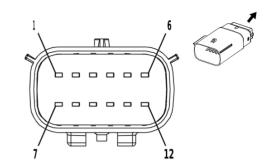
6-368 Electrical Component and Inline Harness Connector End Views

X160 Engine Wiring Harness to Fuel Injector Wiring Harness (LV1) (cont'd)

											, ,	
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	0.75	WH / L-GN	4805	-		Direct Fuel Injector High Voltage Con- trol Cylinder 5	9	0.75	WH / L-GN	4805	II	
10	0.5	WH / RD	480	l		Engine Control Vehicle Sensors 5 Volt Reference 1	10	0.5	WH / RD	480	II	ı
11	0.5	D-BU / WH	2918	I		Fuel Rail Pressure Sensor Sig- nal	11	0.5	D-BU / WH	2918	II	
12	0.5	BK / YE	548	I	_	Engine Control Sensors Low Reference 1	12	0.5	BK / YE	548	Ш	_

X161 Engine Wiring Harness to Fuel Injector Wiring Harness (L8T)





1825165 2687960

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13922706 Service Connector: 19352907

Description: 12-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

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	19368973	J-35616-2A (GY)	J-38125-217
II	Not required	No Tool Required	No Tool Required

X161 Engine Wiring Harness to Fuel Injector Wiring Harness (L8T)

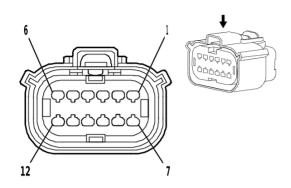
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	D-BU / GY	4902	_	I	Direct Fuel Injector High Voltage Sup- ply Cylinder 2	1	0.75	D-BU / GY	4902	II	ı
2	0.75	D-BU / WH	4904	_	I	Direct Fuel Injector High Voltage Sup- ply Cylinder 4	2	0.75	D-BU / WH	4904	II	
3	0.75	VT / GY	4906	_	I	Direct Fuel Injector High Voltage Sup- ply Cylinder 6	3	0.75	VT / GY	4906	Ш	
4	0.75	GY / WH	4908	_	-	Direct Fuel Injector High Voltage Sup- ply Cylinder 8	4	0.75	GY / WH	4908	=	I
5	0.75	D-BU	4802	I	_	Direct Fuel Injector High Voltage Con- trol Cylinder 2	5	0.75	D-BU	4802	II	_
6 - 7	_	_	_	_	_	Not Occu- pied	6 - 7	_	_	_	_	_

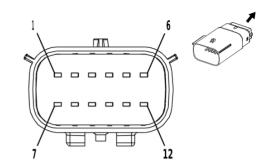
6-370 Electrical Component and Inline Harness Connector End Views

X161 Engine Wiring Harness to Fuel Injector Wiring Harness (L8T) (cont'd)

			_	_		_		_		(, (•
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.75	GY / D-BU	4804	_		Direct Fuel Injector High Voltage Con- trol Cylinder 4	8	0.75	GY / D-BU	4804	=	
9	0.75	VT / L-GN	4806	I	ı	Direct Fuel Injector High Voltage Con- trol Cylinder 6	9	0.75	VT / L-GN	4806	=	ı
10	0.75	GY	4808	I	ı	Direct Fuel Injector High Voltage Con- trol Cylinder 8	10	0.75	GY	4808	=	I
11	0.75	VT / BK	7300	I		High Pres- sure Fuel Pump Low Control	11	0.75	VT / BK	7300	Ш	ı
12	0.75	YE	7301			High Pres- sure Fuel Pump High Control	12	0.75	YE	7301	=	

X161 Engine Wiring Harness to Fuel Injector Wiring Harness (LV1)





1825165 2687960

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 13863397 Service Connector: 19352907

Description: 12-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

Harness Type: Fuel Injector Wiring Harness

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	19368973	J-35616-2A (GY)	J-38125-217
II	Not required	No Tool Required	No Tool Required

X161 Engine Wiring Harness to Fuel Injector Wiring Harness (LV1)

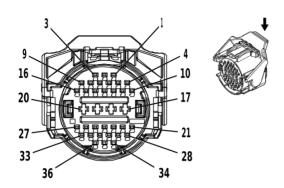
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	ı	_			ı	Not Occu- pied	1	ı	ı			_
2	0.75	D-BU / GY	4902	-	ı	Direct Fuel Injector High Voltage Sup- ply Cylinder 2	2	0.75	D-BU / GY	4902	=	
3	0.75	D-BU / WH	4904	-	I	Direct Fuel Injector High Voltage Sup- ply Cylinder 4	3	0.75	D-BU / WH	4904	Ш	
4	0.75	VT / GY	4906	-	ı	Direct Fuel Injector High Voltage Sup- ply Cylinder 6	4	0.75	VT / GY	4906	=	-
5	0.75	D-BU	4802	I	-	Direct Fuel Injector High Voltage Con- trol Cylinder 2	5	0.75	D-BU	4802	=	-
6 - 7		_	_	_	_	Not Occu- pied	6 - 7		_	_	_	_
8	0.75	GY / D-BU	4804	I	_	Direct Fuel Injector High Voltage Con- trol Cylinder 4	8	0.75	GY / D-BU	4804	II	_

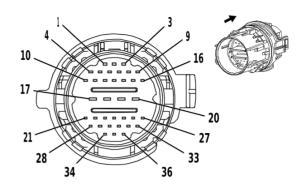
6-372 Electrical Component and Inline Harness Connector End Views

X161 Engine Wiring Harness to Fuel Injector Wiring Harness (LV1) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	0.75	VT / L-GN	4806	_	_	Direct Fuel Injector High Voltage Con- trol Cylinder 6	9	0.75	VT / L-GN	4806	=	
10	0.75	VT / BK	7300	I	_	High Pres- sure Fuel Pump Low Control	10	0.75	VT / BK	7300	II	
11	0.75	YE	7301	I		High Pres- sure Fuel Pump High Control	11	0.75	YE	7301	II	I
12	_	_	_	_	_	Not Occu- pied	12	_	_	_	_	_

X175 Engine Wiring Harness to Automatic Transmission Wiring Harness (M5U)





3621473 3977661

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 15504573 Service Connector: 19329922

Description: 36-Way F 1.2 MCON-CB, 2.8 MCP Series,

Sealed(BK)

Connector Part Information

Harness Type: Automatic Transmission Wiring Harness

OEM Connector: 2321030-5 Service Connector: 19329922

Description: 36-Way M 1.2 MCON, 2.8 MPQ Series,

Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575368	J-35616-35 (VT)	J-38125-36
II	19300445	J-35616-12 (BU)	J-38125-11A
III	Not required	No Tool Required	No Tool Required
III	Not required	No Tool Required	No Tool Required

X175 Engine Wiring Harness to Automatic Transmission Wiring Harness (M5U)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	L-GN / WH	6380	=	ı	Torque Converter Clutch Enable Solenoid Valve A Control	1	0.5	L-GN / WH	6380	III	-
2	ı	_			ı	Not Occu- pied	2	_				_
3	0.5	VT / WH	422	=	-	Torque Converter Clutch Solenoid Valve Control	3	0.5 0.5	VT / WH YE / BN	422 6404	≡	M5U/ MQD LWN+ MQD
4	0.5	GN / WH	1530		ı	Transmission Line Pres- sure Control Solenoid Valve Control	4	0.5	GY / L-GN	6403	III	LWN+ MQD
5	0.5	BN	6400	II		Clutch Sole- noid Valve A Control	5	0.5	BN	6400	III	_
6	0.5	D-BU	6401	II	_	Clutch Sole- noid Valve B Control	6	0.5	D-BU	6401	III	_

6-374 Electrical Component and Inline Harness Connector End Views

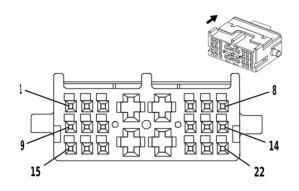
X175 Engine Wiring Harness to Automatic Transmission Wiring Harness (M5U) (cont'd)

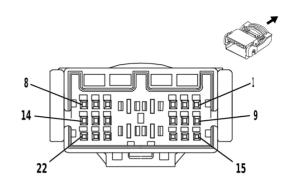
	175 Engine Wiring Harness to Automatic Transmission Wiring						viiiig	Tiairies		(COIIL U)		
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
7	0.5	YE / BN	6210	II	ı	Torque Converter Clutch Enable Solenoid Valve B Control	7	0.5	YE / BN	6210	111	l
8 - 9		_	_	_		Not Occu- pied	8 - 9	_		_		
10	0.5	GY	6402	II	-	Clutch Sole- noid Valve C Control	10	0.5	GY	6402	III	1
11	0.5	BK / BN	586	=	-	Transmission Fluid Tem- perature Sensor Low Reference	11	0.5	OG / BK	586	111	-
12	0.5	BN / WH	585	II	ı	Transmission Fluid Tem- perature Sensor Sig- nal	12	0.5	BN / WH	585	111	ı
13	0.5	WH	4508	II	_	Transmission Clutch G Control	13	0.5	WH	4508	III	_
14	0.5	WH / D-BU	4507	II	_	Transmission Clutch H Control	14	0.5	WH / D-BU	4507	III	_
15 - 17	_	_	_	_	_	Not Occu- pied	15 - 17	_	_	_	_	_
18	0.5	L-GN / GY	6387	I	_	Transmission High Side Driver 1 Con- trol	18	0.5	L-GN / GY	6387	III	_
19	0.75	GY / BN	6388	I	_	Transmission High Side Driver 2 Con- trol	19	0.75	GY / BN	6388	III	_
20	_	_	_	_	_	Not Occu- pied	20	_	_	_	_	_
21	0.5	L-GN / YE	3337	II	_	Transmission Internal Mode Switch Mode Control Y	21	0.5	GN / YE	3337	III	_
22	0.5	D-BU / WH	3338	II	_	Transmission Internal Mode Switch Mode Control X	22	0.5	BU / WH	3338	III	_
23	_	—	—			Transmission Range Switch Sig- nal P	23	_	_	4168	III	
24	0.5	GY / D-BU	6358	II		Output Speed Signal	24	0.5	GY / BU	6358	III	_
25	0.5	YE / L-GN	4170	II	_	Transmission Output Shaft Speed Sen- sor Circuit 9V Reference	25	0.5	YE / GN	4170	111	_

X175 Engine Wiring Harness to Automatic Transmission Wiring Harness (M5U) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
26	0.5	L-GN / YE	6353	II	_	Input Speed Signal	26	0.5	GN / YE	6353	III	_
27	0.5	YE / D-BU	4171	Ш	I	Transmission Input Shaft Speed Sen- sor Circuit 9V Reference	27	١	WH / RD	4171	III	
28		_	_	_	_	Transmission Range Switch Sig- nal B	28	_	_	5982	III	
29	0.5	WH / RD	480	II	I	Engine Control Vehicle Sensors 5 Volt Reference 1	29	0.5	WH / RD	596	III	I
30	0.5	BK / GY	626	=		Engine Control Vehicle Sensors Low Reference 1	30	— 0.5	BK / GY BK / GY	3927 626	≡≡	LWN+ MQD LV1+ M5U
31	ı	ı		_		Transmission Output Shaft Speed Sen- sor Circuit 9V Reference	31		ı	4170	III	
32	0.5	L-GN / VT	4510	II		Transmission Intermediate Speed Signal	32	0.5	GN / VT	4510	111	
33	_	_	_	_	_	Not Occu- pied	33	_	_	_	_	
34	-	_	_	_	_	Transmission Range Switch Sig- nal S	34	_	_	4169	III	_
35	_	_		_	_	Transmission Park/Neutral Signal 1	35	_	_	1786	III	_
36		_		_	_	Not Occu- pied	36	_	_		_	_

X176 Automatic Transmission Wiring Harness to Automatic Transmission Wiring Harness (M5U)





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: Automatic Transmission 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	No Tool Required	No Tool Required
II	Not required	No Tool Required	No Tool Required

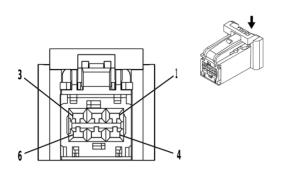
X176 Automatic Transmission Wiring Harness to Automatic Transmission Wiring Harness (M5U)

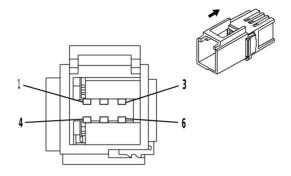
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1		L-GN / WH	6380	_	_	Torque Converter Clutch Enable Solenoid Valve A Control	1		L-GN / WH	6380	=	1
2		BU / WH	3338	I	_	Transmission Internal Mode Switch Mode Control X	2		BU / WH	3338	II	
3				_	_	Not Occu- pied	3	1			1	
4	ı	L-GN / GY	6387	I	_	Transmission High Side Driver 1 Con- trol	4		L-GN / GY	6387	Ш	1
5		WH / RD	596	1	_	5V Reference	5	_	WH / RD	596	Ш	
6		_	_	_	_	Not Occu- pied	6	_	_	_	_	_
7	_	WH / D-BU	4507	I	_	Transmission Clutch H Control	7	_	WH / D-BU	4507	II	_

X176 Automatic Transmission Wiring Harness to Automatic Transmission Wiring Harness (M5U) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	_	GY / L-GN	6403	I	_	Clutch Sole- noid Valve D Control	8	_	GY / L-GN	6403	II	_
9	_	WH	4508	I		Transmission Clutch G Control	9	_	WH	4508	II	
10		YE / BN	6210	I	-	Torque Converter Clutch Enable Solenoid Valve B Control	10	_	YE / BN	6210	II	
11	_	GN / YE	3337	I	_	Transmission Internal Mode Switch Mode Control Y	11	_	GN / YE	3337	II	_
12			_			Not Occu- pied	12	_	_	l	1	_
13		GY	6402	I		Clutch Sole- noid Valve C Control	13	_	GY	6402	II	
14	_	YE / BN	6404	I	_	Clutch Sole- noid Valve E Control	14	_	YE / BN	6404	II	_
15	_	BN / WH	585	I	_	Transmission Fluid Tem- perature Sensor Sig- nal	15	_	BN / WH	585	II	_
16	_	OG / BK	586	I	_	Transmission Fluid Tem- perature Sensor Low Reference	16	_	OG / BK	586	II	_
17	_	_	_	_	_	Not Occu- pied	17	_	_	_	_	_
18	_	GY / BN	6388	I	_	Transmission High Side Driver 2 Con- trol	18	_	GY / BN	6388	Ш	_
19	_	_	_	_	_	Not Occu- pied	19	_	_	_	_	_
20	_	BK / GY	3927	I	_	Transmission Internal Mode Switch Feedback Signal	20	_	BK / GY	3927	II	_
21		BN	6400	I		Clutch Sole- noid Valve A Control	21	_	BN	6400	=	_
22	_	D-BU	6401	I	_	Clutch Sole- noid Valve B Control	22	_	D-BU	6401	Ш	_

X178 Automatic Transmission Wiring Harness to Automatic Transmission Output Speed Sensor Wiring Harness (M5U)





3977938 3977959

Connector Part Information

Harness Type: Automatic Transmission Wiring Harness

OEM Connector: 33134940

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 1.2 OCS Series(NA)

Connector Part Information

Harness Type: Automatic Transmission Output Speed

Sensor Wiring Harness
OEM Connector: 13955963

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M 0.64 II Series (GY)

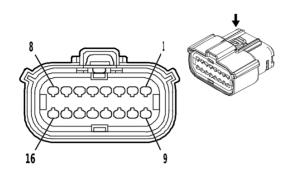
Terminal Part Information

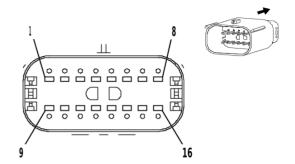
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	No Tool Required	No Tool Required

X178 Automatic Transmission Wiring Harness to Automatic Transmission Output Speed Sensor Wiring Harness (M5U)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1	GY / BU	6358	-		Output Speed Signal	1	_	YE	6358	=	_
2	١	YE / GN	4170	_	-	Transmission Output Shaft Speed Sen- sor Circuit 9V Reference	2		RD	4170	=	_
3	ı	YE / GN	4170	_	I	Transmission Output Shaft Speed Sen- sor Circuit 9V Reference	3		WH	4170	=	-
4	ı	WH / RD	4171	_	ı	Transmission Input Shaft Speed Sen- sor Circuit 9V Reference	4	_	WH	4171	=	-
5		GN / YE	6353	I	_	Input Speed Signal	5	_	GN	6353	II	_
6	_	GN / VT	4510	I	_	Transmission Intermediate Speed Signal	6	_	ВК	4510	Ш	_

X185 Instrument Panel Wiring Harness to Chassis Wiring Harness





2548389 2548390

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13778557 Service Connector: 13584788

Description: 16-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 33372790

Service Connector: Service by Harness - See Part Catalog Description: 16-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

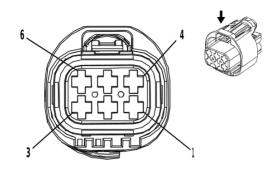
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368973	J-35616-2A (GY)	J-38125-217
II	Not required	J-35616-3 (GY)	No Tool Required

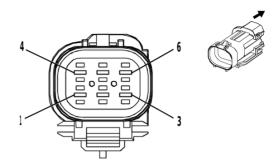
X185 Instrument Panel Wiring Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	RD / L-GN	3140	1		Battery Positive Voltage	1	0.5	RD / L-GN	3140	II	_
2	0.5	L-GN	5060	I	١	Low Speed GMLAN Seri- al Data	2	0.5	L-GN	5060	II	_
3 - 7					l	Not Occu- pied	3 - 7	_		l	1	_
8	0.5	BU / YE	6105	1	١	High Speed GMLAN Seri- al Data [+] 2	8	0.5	D-BU / YE	6105	=	_
9	0.5	GY / YE	5853	I	-	Driver Side Side Object Detection LED Signal 1	9	0.5	GY / YE	5853	=	_
10	0.5	GY	5861	I	I	Passenger Side Object Detection LED Signal 1	10	0.5	GY	5861	II	_
11 - 14		_		_		Not Occu- pied	11 - 14	_	_			_
15	0.5	L-GN / BN	2087	1		Multi-axis Acceleration Sensor Supply Voltage	15	0.5	L-GN / BN	2087	Ш	_
16	0.5	WH	6106	I	_	High Speed GMLAN Seri- al Data [-] 2	16	0.5	WH	6106	Ш	_

6-380

X190 Accessory Wiring Harness to Accessory Power Fuse Block Rear Wiring Harness Extension Harness





2042938 2042939

Connector Part Information

Harness Type: Accessory Wiring Harness

OEM Connector: 10865192

Service Connector: Service by Harness - See Part Catalog Description: 6-Way F 2.8 Junior Power Timer Series,

Sealed(BK)

Connector Part Information

Harness Type: Accessory Power Fuse Block Rear Wiring

Harness Extension Harness OEM Connector: 10865189

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M 2.8 Series, Sealed(BK)

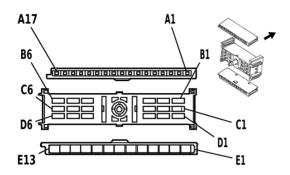
Terminal Part Information

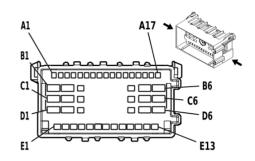
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

X190 Accessory Wiring Harness to Accessory Power Fuse Block Rear Wiring Harness Extension Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	L-BU	6842	I		Auxiliary De- vice Relay 1 Control	1	0.5	BK / L-BU	6842	II	
2	2.5	L-GN	6839	I	_	Auxiliary Device 1 Switched Voltage	2	2.5	L-GN	6839	II	
3	0.5	D-BU	6843	Ι		Auxiliary Device Relay 2 Control	3	0.5	D-BU	6843	II	1
4	2.5	L-GN	6840	-	_	Auxiliary Device 2 Switched Voltage	4	2.5	L-GN	6840	II	
5	1	RD / WH	5440	I		Battery Positive Voltage	5	1	RD / WH	5440	II	
6		_		_		Not Occu- pied	6	_	_	_	_	_

X200 Steering Wheel Air Bag Coil Jumper Wiring Harness to Instrument Panel Wiring Harness





794237 510556

Connector Part Information

Harness Type: Steering Wheel Air Bag Coil Jumper Wiring

Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way F

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15492579 Service Connector: 88988982

Description: 48-Way M 150, 280, 630 Metri-Pack

Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	13505668	J-35616-3 (GY)	J-38125-12A
III	13575715	J-35616-5 (PU)	J-38125-11A
IV	19330180	J-35616-43 (RD)	J-38125-11A

X200 Steering Wheel Air Bag Coil Jumper Wiring Harness to Instrument Panel Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A1	0.35	TN	28	I	_	Horn Relay Control	A1	0.35	TN	28	II	_
A2	ı	_	_			Not Occu- pied	A2	_	_			
А3	0.35	PK	1444	I		12V Refer- ence	А3	0.35	PK	1444	II	
A4	0.35	PU	5526	Ι		Tap Up/Tap Down Switch Signal	A4	0.35	PU	5526	II	1
A5	١	_	_			Not Occu- pied	A5	_	_			
A6	0.5	L-GN / BN	2087	_	ı	Multi-axis Acceleration Sensor Supply Voltage	A6	0.5	L-GN / BN	2087	II	ı
A7 - A8	l					Not Occu- pied	A7 - A8	_		l		1
A9	0.35	PK	3	I		Run/Crank Ignition 1 Voltage	A9	0.35	PK	3	II	

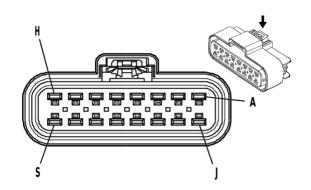
X200 Steering Wheel Air Bag Coil Jumper Wiring Harness to Instrument Panel Wiring Harness (cont'd)

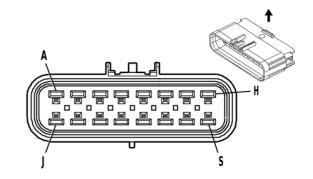
	Harness (cont a)											
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A1- 0		_		_	_	Not Occu- pied	A1- 0	_	_	_	_	_
A1- 1	0.35	L-GN	6818	I	_	Steering Wheel Con- trols Signal 1	A11	0.35	L-GN	6818	II	_
A1- 2	_	_	_	_	_	Not Occu- pied	A1- 2	_	_	_	_	_
A1- 3	0.35	D-GN / WH	7158	I	_	Cruise Control Indicator Dimming Signal	A1- 3	0.35	D-GN / WH	7158	II	_
A1- 4	_	_	_	_	_	Not Occu- pied	A1- 4	_	_	_	_	_
A1- 5	0.35	BN	6136	I	_	Control	A1- 5	0.35	BN	6136	II	_
A1- 6	_	_	_	_	_	Not Occu- pied	A1- 6	_	_	_	_	_
A1- 7	0.35	GY	1884	I	_	Cruise Con- trol Set/ Coast/Re- sume/Accel- erate Switch Signal	A1- 7	0.35	GY	1884	II	_
В1	0.35	RD / WH	540	I	_	Battery Positive Voltage	B1	0.35	RD / WH	540	IV	_
B2	_	_	_	_	_	Not Occu- pied	B2	_	_	_	_	_
В3	0.35	WH	111	I	_	Hazard Warning Switch Sig- nal	В3	0.35	WH	111	III	_
B4 - B5		_			_	Not Occu- pied	B4 - B5	_	_	_	_	_
В6	0.35	PK	1020	_		Off/Run/ Crank Igni- tion Voltage	В6	0.35	PK	1020	IV	_
C1	0.35	WH	530	_		Off/Run/ Crank Igni- tion Voltage	C1	0.35	WH	530	IV	_
C2						Not Occu- pied	C2	_	_			
C3	0.35	YE	307	I	_	Headlamp Switch Flash Signal	C3	0.35	YE	307	III	
C4 - C5	_	_	_	_	_	Not Occu- pied	C4 - C5	_	_	_	_	_
C6	0.35	BN	4	Ī	_	Accessory Ignition Volt- age	C6	0.35	BN	4	IV	
D1	0.35	TN / BK	6009	I	_	Windshield Wiper Switch Low Refer- ence	D1	0.35	TN / BK	6009	IV	_
D2	_	_				Not Occu- pied	D2					_

X200 Steering Wheel Air Bag Coil Jumper Wiring Harness to Instrument Panel Wiring Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
D3	0.35	YE	525	I		High Beam Select Switch Low Beam Signal	D3	0.35	YE	525	III	
D4	0.5	TN / WH	816	I	I	Brake Trans- mission Shift Interlock Sol- enoid Actua- tor Control	D4	0.5	TN / WH	816	III	
D5	_	_	_	_	_	Not Occu- pied	D5	_	_	_	_	_
D6	0.35	PK	94	I		Windshield Washer Switch Sig- nal	D6	0.35	PK	94	IV	
E1	0.5	BK	350	I		Ground	E1	0.5	BK	350	III	_
E2	1	_	-	_		Not Occu- pied	E2	_	_	-	_	
E3	0.5	BK / WH	351	I	_	Signal Ground	E3	0.5	BK / WH	351	III	_
E4	0.5	BU / YE	6105	I	_	High Speed GMLAN Seri- al Data [+] 2	E4	0.5	BU / YE	6105	III	_
E5	0.5	WH	6106	I		High Speed GMLAN Seri- al Data [-] 2	E5	0.5	WH	6106	III	
E6	0.5	BU / YE	6105	I		High Speed GMLAN Seri- al Data [+] 2	E6	0.5	BU / YE	6105	III	
E7	0.5	WH	6106	I		High Speed GMLAN Seri- al Data [-] 2	E7	0.5	WH	6106	III	
E8	0.35	D-GN	663	I	1	Hazard Switch Left Turn Signal	E8	0.35	D-GN	663	III	1
E9	0.35	TN	664	I	1	Hazard Switch Right Turn Signal	E9	0.35	TN	664	III	1
E1- 0		_	_	_	_	Not Occu- pied	E1- 0		_		_	
E1- 1	0.35	L-BU	1714	I		Windshield Wiper Switch Low Signal	E11	0.35	L-BU	1714	III	_
E1- 2	0.35	L-GN	1715	I	_	Windshield Wiper Switch High Signal	E1- 2	0.35	L-GN	1715	III	_
E1- 3	0.35	D-GN	5060	I	_	Low Speed GMLAN Seri- al Data	E1- 3	0.35	D-GN	5060	III	_

X202 Instrument Panel Wiring Harness to Engine Wiring Harness





847252 847270

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15326666 Service Connector: 15326666

Description: 16-Way F 280 GT Series, Sealed(BK)

Connector Part Information

Harness Type: Engine Wiring Harness

OEM Connector: 15326667 Service Connector: 88986347

Description: 16-Way M 280 GT Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19353345	J-35616-4A (PU)	J-38125-215A
II	13575353	J-35616-5 (PU)	J-38125-215A

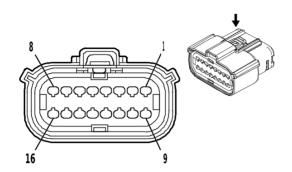
X202 Instrument Panel Wiring Harness to Engine Wiring Harness

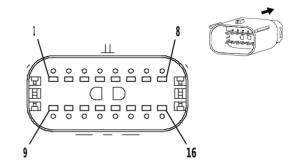
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.5	YE / VT	2378	_	I	Right Rear Outer Park- ing Assist Sensor Sig- nal	Α	0.5	YE / VT	2378	II	ı
В	0.5	YE / WH	2377	_	I	Right Rear Middle Park- ing Assist Sensor Sig- nal	В	0.5	YE / WH	2377	II	ı
С	0.5 0.8	RD / WH BK	840 2840	-		Battery Positive Voltage Battery Positive Voltage	С	0.5	RD / D-BU	840	II	-
D- E		_	_			Not Occu- pied	D- E	_	_		_	_
F	0.5	BN	5360	I		Brake Apply Sensor Low Reference	F	0.5	BK / GY	626	II	_
G	0.5	BN / WH	2374	_		Object Sen- sor Voltage Reference	G	0.5	BN / WH	2374	II	
Н	0.5	YE	2375	-		Left Rear Outer Park- ing Assist Sensor Sig- nal	Н	0.5	YE	2375	II	_

X202 Instrument Panel Wiring Harness to Engine Wiring Harness (cont'd)

					9		9		9		•	•
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
J	0.5	BK / GY	2379	I		Object Sen- sor Low Reference	J	0.5	BK / GY	2379	Ш	
K - L				_	_	Not Occu- pied	K - L	_			_	_
М	0.5	RD / WH	4892	I		Auxiliary Bat- tery Relay Control	M	0.5	RD / WH	4892	II	
N		_	_	_	_	Not Occu- pied	N	_	_	_	_	_
Р	0.5	YE	5361	I		Brake Apply Sensor Sig- nal	Р	0.5	WH / L-GN	5380	II	_
R	0.5	WH	5359	I		Brake Apply Sensor Con- trol	R	0.5	D-BU / RD	460	II	
S	0.5	YE / D-BU	2376		_	Left Rear Middle Park- ing Assist Sensor Sig- nal	S	0.5	YE / D-BU	2376	=	_

X204 Body Wiring Harness to Roof Console Wiring Harness





2548389 2548390

Connector Part Information

Harness Type: Body Wiring Harness OEM Connector: 13778557

Service Connector: 13584788

Description: 16-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 33372790 Service Connector: 19369662

Description: 16-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	19368973	J-35616-2A (GY)	J-38125-217
II	Not required	No Tool Required	No Tool Required
III	19119395	J-35616-3 (GY)	J-38125-217

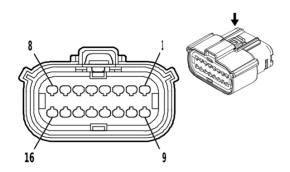
X204 Body Wiring Harness to Roof Console Wiring Harness

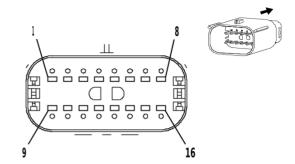
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35 0.5	D-BU D-BU	7641 7641	-	UVC UVC- (UEU/ UFL)	Frontview Camera 2 Signal [+] Frontview Camera 2 Signal [+]	1	0.5	D-BU	7641	III	ı
2	0.5 0.35 0.5	L-BU L-BU L-BU	7642 7642 7642		- UEU/ UFL UVC UVC- (UEU/ UFL)	Frontview Camera 2 Signal [-] Frontview Camera 2 Signal [-] Frontview Camera 2 Signal [-]	2	0.5 0.5	WH D-BU	7642 7642	≡≡	UEU/ UFL UVC- (UEU/ UFL)
3	0.5	Bare	6799	I	_	Camera Shield Ground	3	0.5	Bare	6799	III	_
4	_	_	_	_	_	Not Occu- pied	4	_	_	_	_	_
5	0.5	PK	239	I	_	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	5	0.5 0.5	VT / WH PK	239 239	III III	UVC UVC- (UEU/ UFL)

X204 Body Wiring Harness to Roof Console Wiring Harness (cont'd)

	A204 Body Willing namess to Roof Console Willing namess (Cont d)											
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	_	_	_	_	_	Not Occu- pied	6	_	_	_	_	_
7	0.8	D-GN	654	-	ı	Cellular Tele- phone Micro- phone Low Reference	7	0.8	D-GN	654	III	I
8	0.8	GY	655	-		Cellular Tele- phone Micro- phone Signal	8	0.8	GY	655	III	1
9	0.5	L-GN	24	-	ı	Backup Lamp Control Backup Lamp Control	9	0.5 0.5	L-GN / WH L-GN	24 24	III	UVC UEU/ UFL
10	0.5	BK	1850	I	_	Ground	10	0.5	BK	1850	III	_
11	0.5	GY / WH	3153	-	ı	Lane Departure Warning Disable Switch Signal	11	0.5	GY / WH	3153	III	-
12	0.5	GN	5060	I	_	Low Speed GMLAN Seri- al Data	12	0.5	L-GN	5060	III	_
13	_	_	_	_	_	Not Occu- pied	13	_	_	_	_	_
14	0.5	WH	3152	I	_	Lane Departure Warning Indicator Control	14	0.5	WH	3152	III	_
15	_	_	_		_	Not Occu- pied	15			_	_	_
16	0.5	RD / GN	3140	I	_	Battery Positive Voltage	16	0.5	RD / L-GN	3140	III	_

X205 Roof Console Wiring Harness to Body Wiring Harness





2548389 2548390

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 13778557 Service Connector: 13584788

Description: 16-Way F 1.5 MX Series, Sealed(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 33372790 Service Connector: 19369662

Description: 16-Way M 1.5 MX Series, Sealed(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	19368973	J-35616-2A (GY)	J-38125-217		
II	19119395	J-35616-3 (GY)	J-38125-217		

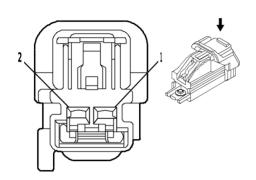
X205 Roof Console Wiring Harness to Body Wiring Harness

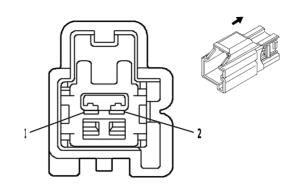
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	BN	441	Ι		Run Ignition 3 Voltage	1	0.35	BN	441	II	
2	0.5	OG	1925	_	ı	Auxiliary Blower Motor Medium Speed Con- trol 2	2	0.35	OG	1925	=	I
3	0.5	PK / BK	5265	I		Auxiliary HVAC Rear Control Sig- nal	3	0.5	PK / BK	5265	Ш	
4	0.35	GY	2599	_		Rear Mode Door Actua- tor Signal	4	0.35	GY	2599	II	1
5	0.5	WH	1924	-	1	Auxiliary Blower Motor High Speed Control	5	0.35	WH	1924	II	1
6	0.35	BN	341	Ι	_	Run Ignition 3 Voltage	6	0.35	BN	341	II	
7	1 0.8	BK BK	1850 1850		((C69/ DH6) - YF1) / (- YF1) (- DH6- C69) / (YF1)	Ground Ground	7	1	вк	1850	Ш	ı

X205 Roof Console Wiring Harness to Body Wiring Harness (cont'd)

		7120	0 11001	00113010	, , , , , , , , , , , , , , , , , , ,	Joury	ay wiring namess (cont a)					
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	D-BU / WH	149	I	1	Courtesy Lamp Control	8	0.5	D-BU / WH	149	Ш	_
9	0.5	BK / WH	351	I	1	Signal Ground	9	0.35	BK / WH	351	Ш	_
10	0.5	BN	5263	I	-	Auxiliary HVAC Rear Temperature Signal	10	0.5	BN	5263	II	_
11	0.35	D-GN	6134	I	_	Body Control Module LIN Bus 3	11	0.35	D-GN	6134	II	_
12	0.35	OG	2775	I	_	Rear Air Temperature Door Actua- tor Control	12	0.35	OG	2775	II	_
13	0.5	PU / WH	5264	I	_	Auxiliary HVAC Rear Mode Signal	13	0.5	PU / WH	5264	II	_
14	0.5	D-BU	1926	I	ı	Auxiliary Blower Motor Low Speed Control 2	14	0.35	D-BU	1926	II	_
15	0.35	BN / WH	230	I	_	Instrument Panel Lamp Dimming Control	15	0.35	BN / WH	230	II	_
16	0.8	OG	1732	I	_	Control Mod- ule 12V Reference 3	16	0.8	OG	1732	II	_

X206 Instrument Panel Wiring Harness to Instrument Panel Wiring Harness





1856792 1853532

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 10846794 Service Connector: 19367525

Description: 2-Way F 1.5 YESC Series(L-GY)

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 10846798 Service Connector: 19367526

Description: 2-Way M 1.5 Series(L-GY)

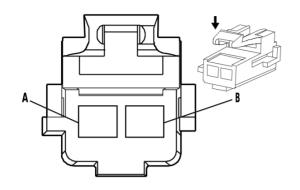
Terminal Part Information

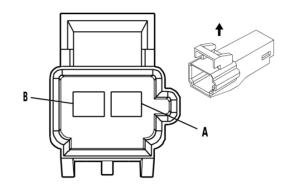
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	J-35616-2A (GY)	No Tool Required	
II	Not required	J-35616-3 (GY)	No Tool Required	

X206 Instrument Panel 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	0.5	L-BU	20	Ι		Stop Lamp Control	1	0.5	L-BU	20	II	_
2	0.5	BK	350	I	_	Ground	2	0.5	BK	350	II	

X220 Instrument Panel Wiring Harness to Park Brake Switch Jumper Wiring Harness





1542255 788072

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12129082 Service Connector: 15305896

Description: 2-Way F 280 Metri-Pack Flexlock Series(GY)

Connector Part Information

Harness Type: Park Brake Switch Jumper Wiring Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M (GY)

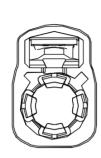
Terminal Part Information

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

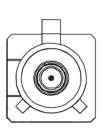
X220 Instrument Panel Wiring Harness to Park Brake Switch Jumper Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
Α	0.35	L-BU	1134	I		Park Brake Switch Sig- nal	А	0.35	L-BU	1134	II	1
В	_	_	_	_	_	Not Occu- pied	В	_	_	_	_	_

X221 Instrument Panel Wiring Harness to Antenna Wiring Harness









2908476 3275596

Connector Part Information

Harness Type: Instrument Panel Wiring Harness COAX

OEM Connector: 13616870

Service Connector: Service by Cable Assembly — See Part

Catalog

Description: 1-Way F Coax Type(BK)

Connector Part Information

Harness Type: Antenna Wiring Harness COAX

OEM Connector: Not Available

Service Connector: Service by Cable Assembly — See Part

Catalog

Description: 1-Way M (BK)

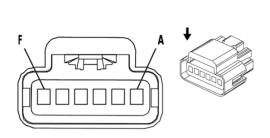
Terminal Part Information

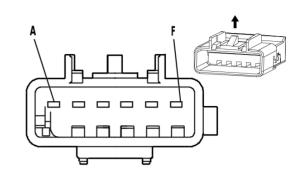
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required

X221 Instrument Panel Wiring Harness to Antenna Wiring Harness

_													
	Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
	_	_	Coax Cable	_	I	_	(AM/FM) An- tenna RF Signal	_	_	Coax Cable	_	I	_

X225 Accelerator Control Wiring Harness to Instrument Panel Wiring Harness





2526641 1464340

Connector Part Information

Harness Type: Accelerator Control Wiring Harness

OEM Connector: 13667186

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 150 GT FBT Series(BK)

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15332142 Service Connector: 19368863

Description: 6-Way M 150 GT Series(BK)

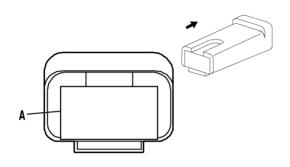
Terminal Part Information

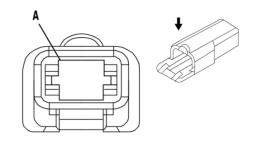
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	Not required	J-35616-2A (GY)	No Tool Required		
II	Not required	J-35616-3 (GY)	No Tool Required		

X225 Accelerator Control Wiring Harness to Instrument Panel Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.35	BN / RD	1274	_		Accelerator Pedal Posi- tion 5V Reference 2	А	0.35	BN / RD	1274	II	I
В	0.35	WH / RD	1164	-	ı	Accelerator Pedal Posi- tion 5V Reference 1	В	0.35	WH / RD	1164	II	ı
С	0.35	YE / WH	1161	Ι		Accelerator Pedal Posi- tion Signal 1	С	0.35	YE / WH	1161	II	1
D	0.35	BK / D-BU	1271	_		Accelerator Pedal Posi- tion Low Reference 1	D	0.35	BK / D-BU	1271	II	1
E	0.35	BK / VT	1272	-		Accelerator Pedal Posi- tion Low Reference 2	E	0.35	BK / VT	1272	II	I
F	0.35	L-GN / WH	1162	I	_	Accelerator Pedal Posi- tion Signal 2	F	0.35	L-GN / WH	1162	II	_

X289 Side Access Panel Wiring Harness to Instrument Panel Wiring Harness





1542249 2698491

Connector Part Information

Harness Type: Side Access Panel Wiring Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 2984528

Service Connector: Not Available
Description: 1-Way M 56 Series(BK)

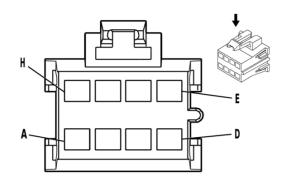
Terminal Part Information

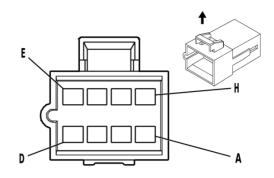
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	
I	Not required	No Tool Required	No Tool Required	
II	Not required	No Tool Required	No Tool Required	

X289 Side Access Panel Wiring Harness to Instrument Panel Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	_	RD	1042	Ι		Battery Positive Voltage	Α		RD / BK	1042	II	

X290 Instrument Panel Wiring Harness to Side Access Panel Wiring Harness





62469 655684

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12064998 Service Connector: Not Available

Description: 8-Way F 280 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Side Access Panel Wiring Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way M (BK)

Terminal Part Information

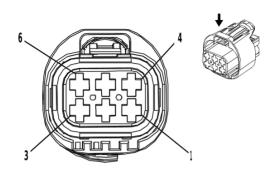
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	No Tool Required	No Tool Required

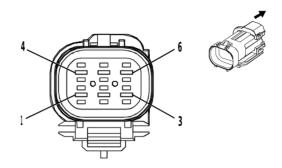
X290 Instrument Panel Wiring Harness to Side Access Panel Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	ı	L-BU	244	-		Passenger Door Lock Switch Lock Control	А		L-BU / WH	244	II	_
В	ı	L-BU	1344	I	I	Rear Com- partment Lid Unlatch Re- lay Control	В	ı	L-BU	1344	II	ı
С	ı	L-GN	1391	_	I	Left Front Door Lock Relay Con- trol	С	ı	L-GN	1391	II	I
D- F		_	_		ı	Not Occu- pied	D- F	_				
G		OG	1732	I	_	Control Mod- ule 12V Reference 3	G	_	RD	1732	II	_
Н	_	YE	5810	I	_	Park Enable Signal	Н	_	OG	5810	II	_

6-396

X291 Accessory Power Fuse Block Rear Wiring Harness Extension Harness to Accessory Power Fuse Block Rear Wiring Harness Extension Harness





2042938 2042939

Connector Part Information

Harness Type: Accessory Power Fuse Block Rear Wiring

Harness Extension Harness OEM Connector: 10865192

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 2.8 Junior Power Timer Series,

Sealed(BK)

Connector Part Information

Harness Type: Accessory Power Fuse Block Rear Wiring

Harness Extension Harness OEM Connector: 10865189

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way M 2.8 Series, Sealed(BK)

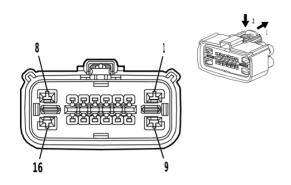
Terminal Part Information

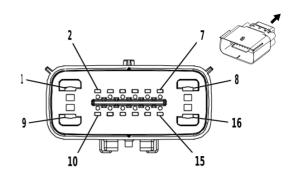
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	Not required	J-35616-4A (PU)	No Tool Required		
II	Not required	J-35616-5 (PU)	No Tool Required		

X291 Accessory Power Fuse Block Rear Wiring Harness Extension Harness to Accessory Power Fuse Block Rear Wiring Harness Extension Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	L-GN	6840	_	ı	Auxiliary Device 2 Switched Voltage	1	2.5	L-GN	6840	II	_
2	2.5	L-GN	6839	_	I	Auxiliary Device 1 Switched Voltage	2	2.5	L-GN	6839	II	-
3	0.5	D-BU	6843	1	١	Auxiliary Device Relay 2 Control	3	0.5	D-BU	6843	II	_
4	0.5	BK / L-BU	6842	Ι		Auxiliary De- vice Relay 1 Control	4	0.5	BK / L-BU	6842	II	_
5	1	RD / WH	5440	Ι		Battery Positive Voltage	5	1	RD / WH	5440	II	_
6	_	_	_	_	_	Not Occu- pied	6	_	_	_	_	_

X306 Body Wiring Harness to Seat Wiring Harness - Passenger





4283035 2373686

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 33320906 Service Connector: 19368738

Description: 16-Way F 1.5, 2.8 MX Series, Sealed(YE)

Connector Part Information

Harness Type: Seat Wiring Harness - Passenger

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 16-Way M (YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	13576377	J-35616-2A (GY)	J-38125-12A		
II	85528055	J-35616-2A (GY)	J-38125-217		
III	Not required	No Tool Required	No Tool Required		
IV	Not required	No Tool Required	No Tool Required		
IV	Not required	No Tool Required	No Tool Required		

X306 Body Wiring Harness to Seat Wiring Harness - Passenger

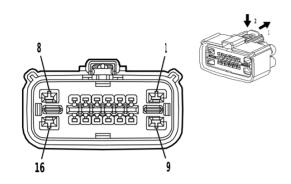
	Accordance to the first termination of the fir											
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	3	BK	1850	I	_	Ground	1	3	BK	1850	IV	_
2		OG	1362	III	-	Passenger Seat Belt Switch Sig- nal	2	_	OG	1362	IV	I
3		L-BU	1361	III	_	Passenger Seat Belt Switch Low Reference	3	_	PK	1361	IV	
4	_	_	_		_	Not Occu- pied	4	_	_			_
5	0.5	L-GN	2116	Ш	-	Passenger Seat Belt Pretensioner High Control	5	0.5	L-GN	2116	IV	ı
6	0.5	OG	2117	II	_	Passenger Seat Belt Pretensioner Low Control	6	0.5	OG	2117	IV	_
7 - 8			_			Not Occu- pied	7 - 8			_		
9	3	RD / WH	3540	I	_	Battery Posi- tive Voltage	9	3	RD / WH	3540	IV	_

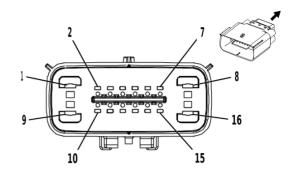
6-398 Electrical Component and Inline Harness Connector End Views

X306 Body Wiring Harness to Seat Wiring Harness - Passenger (cont'd)

			_	_			_			_		
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
10	0.5	L-GN	2136	Ш	_	Right Front Seat Side Air Bag Low Control	10	0.5	L-GN	2136	IV	
11	0.5	TN / WH	2135	II		Right Front Seat Side Air Bag High Control	11	0.5	TN / WH	2135	IV	I
12 - 16	_	_	_	_	_	Not Occu- pied	12 - 16	_	_	_	_	_

X307 Body Wiring Harness to Seat Wiring Harness - Driver





4283035 2373686

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 33320906 Service Connector: 19368738

Description: 16-Way F 1.5, 2.8 MX Series, Sealed(YE)

Connector Part Information

Harness Type: Seat Wiring Harness - Driver

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 16-Way M (YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13576377	J-35616-2A (GY)	J-38125-12A
II	85528055	J-35616-2A (GY)	J-38125-217
III	Not required	No Tool Required	No Tool Required

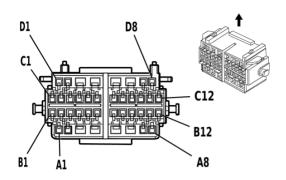
X307 Body Wiring Harness to Seat Wiring Harness - Driver

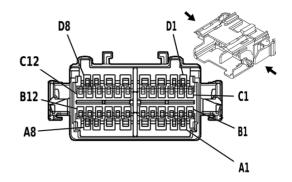
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	3	RD / WH	3540	I		Battery Positive Voltage	1	3	RD / WH	3540	III	_
2	0.5	PK	5057	II		Seat Position Switch Low Reference	2	0.5	PK	5057	III	
3	0.5	TN / WH	238	=		Driver Seat Belt Switch Signal	3	0.5	TN / WH	238	III	_
4			_	1		Not Occu- pied	4	_	_	l		_
5	0.5	TN / WH	2118	=	_	Driver Seat Belt Preten- sioner High Control	5	0.5	TN / WH	2118	III	-
6	0.5	OG / BK	2119	II	_	Driver Seat Belt Preten- sioner Low Control	6	0.5	OG / BK	2119	III	_
7 - 8		_	_	_	_	Not Occu- pied	7 - 8	_	_	_	_	_
9	3	BK	450	I	_	Ground	9	3	BK	450	III	_
10	0.5	YE / BK	2138	II	_	Left Front Seat Side Air Bag Low Control	10	0.5	YE / BK	2138	III	_

X307 Body Wiring Harness to Seat Wiring Harness - Driver (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
11	0.5	BN	2137	II		Left Front Seat Side Air Bag High Control	11	0.5	BN	2137	III	
12 - 16	_	_	_	_	_	Not Occu- pied	12 - 16	_	_	_		_

X318 Instrument Panel Wiring Harness to Body Wiring Harness





1538795 851471

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 15448130 Service Connector: 89046970

Description: 40-Way F 150, 280 GT Series(L-GY)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 15416977 Service Connector: 19331377

Description: 40-Way M 150, 280 GT Series(L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	13575735	J-35616-14 (GN)	J-38125-215A		
II	13575753	J-35616-4A (PU)	J-38125-215A		
III	13575507	J-35616-5 (PU)	J-38125-215A		
IV	19354111	J-35616-3 (GY)	J-38125-215A		

X318 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
A1	0.8	OG	1853	I	_	Right Front Midrange Speaker [+] Control	A1	0.8	OG	1853	IV	_
A2	0.8	D-GN	1953	I	_	Right Front Midrange Speaker [-] Control	A2	0.8	D-GN	1953	IV	-
А3	0.5	BK / WH	1751	II	_	Signal Ground	А3	0.5	BK / WH	1751	III	_
A4	0.5	TN / BK	371	=	I	Passenger Supplemen- tal Inflatable Restraint Disable Switch Sig- nal	A4	0.5	TN / BK	371	II	
A5	0.5	BU / YE	6105	II	_	High Speed GMLAN Seri- al Data [+] 2	A5	0.5	D-BU / YE	6105	III	_
A6	0.5	WH	6106	II	_	High Speed GMLAN Seri- al Data [-] 2	A6	0.5	WH	6106	III	_
A7	_	_	_	_	_	Not Occu- pied	A7	_	_	_	_	_

X318 Instrument Panel Wiring Harness to Body Wiring Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A8	0.35	YE / BK	1181	Гуре ID	_	Right Rear Door Open Switch Sig- nal	A8	0.35	YE / BK	1181	IV	_
B1	0.8	L-BU	1320	I		Center High Mounted Stop Lamp Control 2	B1	0.8	L-BU	1320	IV	_
B2	_	_	_	_	_	Not Occu- pied	B2	1	_		_	_
В3	0.8	TN	1855	I	_	Right Rear Midrange Speaker [+] Control	В3	1	TN	1855	IV	_
B4	0.8	OG	1955	I	_	Right Rear Midrange Speaker [-] Control	B4	1	OG	1955	IV	_
В5	_	_	_	_	_	Not Occu- pied	B5	_	_	_	_	_
В6	0.5	GN	5060	I	_	Low Speed GMLAN Seri- al Data	В6	0.5	GN	5060	IV	_
В7	0.5	D-BU / WH	6619	I		Front Middle Impact Dis- criminating Sensor Low Reference	В7	0.5	D-BU / WH	6619	IV	_
В8	0.5	BN / WH	6618	ı	_	Front Middle Impact Dis- criminating Sensor Sig- nal	В8	0.5	BN / WH	6618	IV	_
В9	0.35	WH	3152	I		Lane Departure Warning Indicator Control	В9	0.5	WH	3152	IV	_
B1- 0	0.35	D-GN	5060	I		Low Speed GMLAN Seri- al Data	B1- 0	0.35	D-GN	5060	IV	_
B1- 1	0.35	D-GN	6134	I		Body Control Module LIN Bus 3	B11	0.35	D-GN	6134	IV	_
B1- 2	0.35	GY / WH	3153	I		Lane Departure Warning Disable Switch Signal	B1- 2	0.5	GY / WH	3153	IV	_
C1	0.8	D-GN	654	I	_	Cellular Tele- phone Micro- phone Low Reference	C1	0.8	D-GN	654	IV	_
C2	0.35	PK	1139	I	_	Run/Crank Ignition 1 Voltage	C2	0.35	PK	1139	IV	_
C3	0.8	TN	1859	I	_	Left Rear Midrange Speaker [+] Control	C3	1	TN	1859	IV	_

X318 Instrument Panel Wiring Harness to Body Wiring Harness (cont'd)

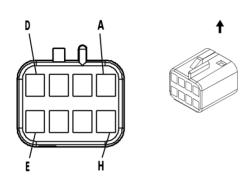
		710.0			<u></u>	Harness to	, 500	-y · · ·		<u> </u>	(001111 41)	
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
C4	0.8	WH	1959	I	_	Left Rear Midrange Speaker [-] Control	C4	1	WH	1959	IV	_
C5	0.8	GY	655	1	_	Cellular Tele- phone Micro- phone Signal	C5	0.8	GY	655	IV	_
C6	_	_	_	_	_	Not Occu- pied	C6				_	_
C7	0.35	L-GN	5926	I		Rear Body Opening Open Switch Signal	C7	0.35	L-GN	5926	IV	_
C8	0.35	PK / BK	1303	I	_	Liftgate Ajar Switch Sig- nal 1	C8	0.35	PK / BK	1303	IV	_
C9	0.35	TN / WH	746	I		Right Front Door Ajar Switch Sig- nal	C9	0.35	TN / WH	746	IV	_
C1- 0	0.35	L-GN	1177	I	_	Right Front Door Open Switch Sig- nal	C1- 0	0.35	L-GN	1177	IV	_
C1- 1	0.5	TN	126	I	_	Left Front Door Open Switch Sig- nal	C1- 1	0.35	TN	126	IV	_
C1- 2	0.35	GY / BK	745	I		Left Front Door Ajar Switch Sig- nal	C1- 2	0.35	GY / BK	745	IV	_
D1	0.8	D-BU	1857	I	_	Left Front Midrange Speaker [+] Control	D1	0.8	D-BU	1857	IV	_
D2	0.8	L-BU	1957	I	ı	Left Front Midrange Speaker [-] Control	D2	0.8	L-BU	1957	IV	_
D3	0.5 0.8	OG OG	1732 1732	=	<u> </u>	Control Mod- ule 12V Reference 3 Control Mod- ule 12V Reference 3	D3	0.8	OG	1732	≡	_
D4	0.5	PK	353	Ш	_	Passenger Supplemen- tal Inflatable Restraint Suppression Indicator Control	D4	0.5	PK	353	III	_
D5	0.5	PK / BK	780	II	_	Driver Door Lock Switch Lock Signal	D5	0.35	PK / BK	780	III	_
D6	0.5	OG / BK	781	II	_	Driver Door Lock Switch Unlock Sig- nal	D6	0.35	OG / BK	781	III	_

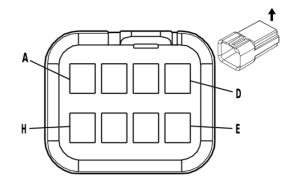
6-404 Electrical Component and Inline Harness Connector End Views

X318 Instrument Panel Wiring Harness to Body Wiring Harness (cont'd)

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Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
D7	0.35	L-BU	244	I	ı	Passenger Door Lock Switch Lock Control	D7	0.35	L-BU	244	IV	ı
D8	0.35	D-BU	245	I	_	Passenger Door Lock Switch Un- lock Control	D8	0.35	D-BU	245	IV	_

X319 Auxiliary Heater Front Wiring Harness to Body Wiring Harness





62439

Connector Part Information

Harness Type: Auxiliary Heater Front Wiring Harness

OEM Connector: 12047886

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 150 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12045688 Service Connector: 13584253

Description: 8-Way M 150 Metri-Pack Series(BK)

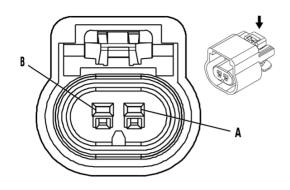
Terminal Part Information

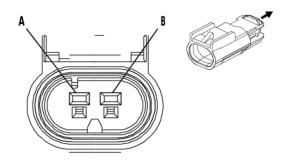
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X319 Auxiliary Heater Front Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.35	WH	1924	_	_	Auxiliary Blower Motor High Speed Control	А	0.35	WH	1924	=	1
В	0.35	OG	1925	_	I	Auxiliary Blower Motor Medium Speed Con- trol 2	В	0.35	OG	1925	II	_
С	0.35	D-BU	1926	_		Auxiliary Blower Motor Low Speed Control 2	С	0.35	D-BU	1926	Ш	-
D	0.35	BN / WH	230	I		Instrument Panel Lamp Dimming Control	D	0.35	BN / WH	230	Ш	1
Е	0.35	BK	450	-		Ground	Е	0.35	BK	450	II	_
F - H	_	_	_	_	_	Not Occu- pied	F - H	_	_	_	_	_

X323 Airbag Wiring Harness to Body Wiring Harness





523630 681875

Connector Part Information

Harness Type: Airbag Wiring Harness

OEM Connector: 13510085

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 GT Series, Sealed(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 13510099 Service Connector: 13580103

Description: 2-Way M 150 GT Series, Sealed(BK)

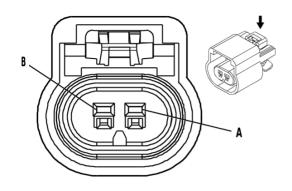
Terminal Part Information

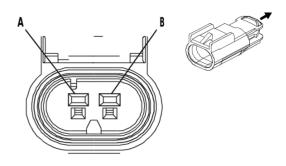
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X323 Airbag Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.5	GY / BK	6621	I		Left Middle Side Impact Sensor Low Reference	А	0.5	GY / BK	6621	II	-
В	0.5	D-GN / WH	6620	I	_	Left Middle Side Impact Sensor Sig- nal	В	0.5	D-GN / WH	6620	=	_

X324 Airbag Wiring Harness to Body Wiring Harness





523630 681875

Connector Part Information

Harness Type: Airbag Wiring Harness

OEM Connector: 13510085

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 GT Series, Sealed(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 13510099 Service Connector: 13580103

Description: 2-Way M 150 GT Series, Sealed(BK)

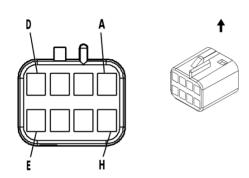
Terminal Part Information

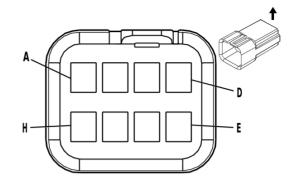
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X324 Airbag Wiring Harness to Body Wiring Harness

				<u> </u>								
Pi	n Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	L-GN / WH	6625	I	-	Right Middle Side Impact Sensor Low Reference	А	0.5	L-GN / WH	6625	II	I
E	0.5	L-BU / BK	6624	I	_	Right Middle Side Impact Sensor Sig- nal	В	0.5	L-BU / BK	6624	II	_

X329 Instrument Panel Wiring Harness to Body Wiring Harness





62439 62434

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 12047886

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 150 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12089526 Service Connector: 13584253

Description: 8-Way M 150 Metri-Pack Series(BK)

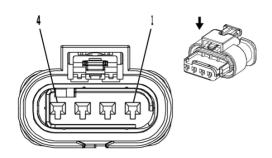
Terminal Part Information

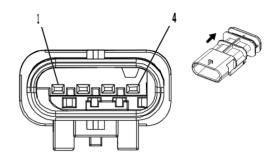
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X329 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
A - C				_		Not Occu- pied	A - C				_	_
D	0.5	L-GN	24	Ι		Backup Lamp Control	D	0.5	L-GN	24	=	_
Е	0.5	PK	239	Ι		Run/Crank Ignition 1 Voltage	Ш	0.5	PK	239	=	_
F	0.5	L-GN	24	Ι		Backup Lamp Control	F	0.5	L-GN	24	=	_
G - H	_	_		_	_	Not Occu- pied	G - H	_	_	_	_	_

X330 Instrument Panel Wiring Harness to Body Wiring Harness





2684560 3225223

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13854531 Service Connector: 13586137

Description: 4-Way F 1.2 Series, Sealed(BK with YE

Cover)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 13854529 Service Connector: 19299698

Description: 4-Way M 1.2 Series, Sealed(YE)

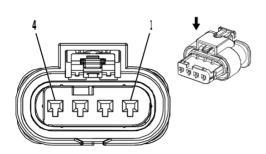
Terminal Part Information

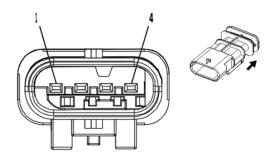
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	Not required	J-35616-16 (L-GN)	No Tool Required		
II	Not required	J-35616-17 (L-GN)	No Tool Required		

X330 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	0.5	TN	3021	I	-	Steering Wheel Air Bag Stage 1 High Control	1	0.5	TN	3021	Ш	ı
2	0.5	BN	3020	I	ı	Steering Wheel Air Bag Stage 1 Low Control	2	0.5	BN	3020	II	I
3 - 4	_	_	_	_	_	Not Occu- pied	3 - 4	_	_	_	_	_

X331 Instrument Panel Wiring Harness to Body Wiring Harness





2684564 2684563

Connector Part Information

Harness Type: Instrument Panel Wiring Harness

OEM Connector: 13854532 Service Connector: 85571685

Description: 4-Way F 1.2 Series, Sealed(YE)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 13854530 Service Connector: 13586576

Description: 4-Way M 1.2 Series, Sealed(YE)

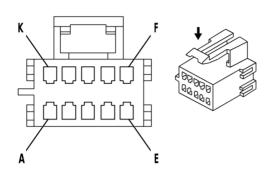
Terminal Part Information

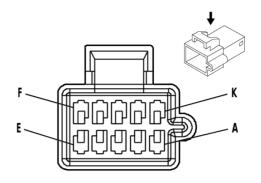
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	Not required	J-35616-16 (L-GN)	No Tool Required		
II	Not required	J-35616-17 (L-GN)	No Tool Required		

X331 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	0.5	YE	3025	_	ı	Passenger Instrument Panel Air Bag Stage 1 High Control	1	0.5	YE	3025	=	1
2	0.5	OG	3024	l	_	Passenger Instrument Panel Air Bag Stage 1 Low Control	2	0.5	OG	3024	II	-
3 - 4		_	_	_	_	Not Occu- pied	3 - 4	_	_	_	_	_

X400 Rear Door Door Wiring Harness to Body Wiring Harness





603055 808703

Connector Part Information

Harness Type: Rear Door Door Wiring Harness

OEM Connector: 15324054

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 150 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 15324758 Service Connector: 19179279

Description: 10-Way M 150 Metri-Pack Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	Not required	J-35616-14 (GN)	No Tool Required		
II	13505668	J-35616-3 (GY)	J-38125-12A		

X400 Rear Door Door Wiring Harness to Body Wiring Harness

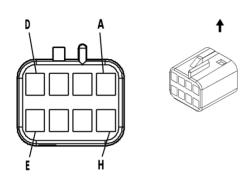
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	1	TN	1855	I	ı	Right Rear Midrange Speaker [+] Control	А	1	TN	1855	II	I
В	1	OG	1955	I	I	Right Rear Midrange Speaker [-] Control	В	1	OG	1955	II	I
С		_	_	_	_	Not Occu- pied	С	_	_	_	_	
D	0.35	BK / WH	1051	I	_	Signal Ground	D	1	BK / WH	1051	II	_
E	0.35	D-BU	245	I	I	Passenger Door Lock Switch Un- lock Control	E	0.35	D-BU	245	II	1
F	1	GY	295	I	١	Door Lock Actuator Lock Control	F	1	GY	295	II	1
G	1	TN / BK	1095	I	_	Right Rear Door Lock Actuator Un- lock Control	G	1	TN / BK	1095	II	
Н	0.35	L-GN	5926	I	_	Rear Body Opening Open Switch Signal	Н	0.35	L-GN	5926	II	_

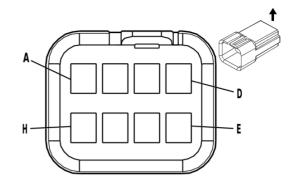
6-412 Electrical Component and Inline Harness Connector End Views

X400 Rear Door Door Wiring Harness to Body Wiring Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
J	0.35	PK / BK	1303	Ι		Liftgate Ajar Switch Sig- nal 1	J	0.35	PK / BK	1303	II	_
К	0.35	L-BU	244	I	_	Passenger Door Lock Switch Lock Control	K	0.35	L-BU	244	II	_

X403 Rear Door Door Wiring Harness to Body Wiring Harness (-Cutaway)





62439

Connector Part Information

Harness Type: Rear Door Door Wiring Harness

OEM Connector: 12047886

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 150 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12089526 Service Connector: 13584253

Description: 8-Way M 150 Metri-Pack Series(BK)

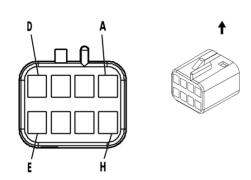
Terminal Part Information

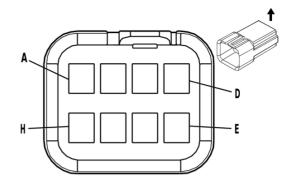
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	Not required	J-35616-14 (GN)	No Tool Required		
II	Not required	J-35616-3 (GY)	No Tool Required		

X403 Rear Door Door Wiring Harness to Body Wiring Harness (-Cutaway)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.5	YE	7641	I		Frontview Camera 2 Signal [+]	Α	0.5	D-BU	7641	II	_
В	0.5	L-BU	7642	I	_	Frontview Camera 2 Signal [-]	В	0.5	WH	7642	II	- UEU/ UFL
С	_	_	_	_	_	Not Occu- pied	С	_	_	_	_	_
D	0.5	BK	351	Ι	_	Signal Ground	D	0.35	BK / WH	351	II	_
Е	0.5	PK	239	Ι	_	Run/Crank Ignition 1 Voltage	Е	0.5	PK	239	II	_
F	0.5	L-GN	24	Ι	_	Backup Lamp Control	F	0.5	L-GN	24	II	_
G		_	_	_		Not Occu- pied	G	_	_		_	_
Н	0.5	Bare	6799	I	_	Camera Shield Ground	Н	0.5	Bare	6799	II	_

X403 Rear Door Door Wiring Harness to Body Wiring Harness (Cutaway)





62439

Connector Part Information

Harness Type: Rearview Camera Wiring Harness

OEM Connector: 12047886

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way F 150 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12045688 Service Connector: 13584253

Description: 8-Way M 150 Metri-Pack Series(BK)

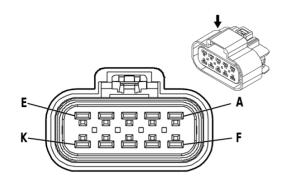
Terminal Part Information

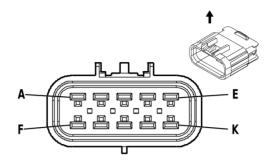
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	Not required	J-35616-14 (GN)	No Tool Required		
II	Not required	J-35616-3 (GY)	No Tool Required		

X403 Rear Door Door Wiring Harness to Body Wiring Harness (Cutaway)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.5	WH	7641	I		Frontview Camera 2 Signal [+]	А	0.35	D-BU	7641	II	
В	0.5	L-BU	7642	I	_	Frontview Camera 2 Signal [-]	В	0.35	L-BU	7642	II	
C - D	_	_	_	_	_	Not Occu- pied	C- D	_	_	_	_	
Е	0.5	PK	239	I		Run/Crank Ignition 1 Voltage	Е	0.5	PK	239	II	
F	0.5	L-GN	24	I	_	Backup Lamp Control	F	0.5	L-GN	24	II	
G	0.5	BK	351	I	_	Signal Ground	G	0.35	BK / WH	351	II	_
Н	0.5	Bare	6799	I	_	Camera Shield Ground	Н	0.35	BK	6799	II	_

X405 Chassis Wiring Harness to Chassis Wiring Harness (-Cutaway)





655815 655819

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 15326660

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 280 GT Series, Sealed(BK)

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 15326661

Service Connector: Service by Harness - See Part Catalog Description: 10-Way M 280 GT Series, Sealed(BK)

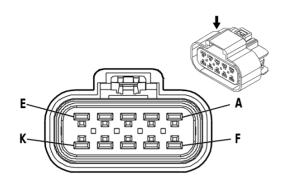
Terminal Part Information

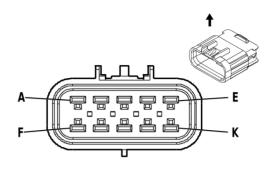
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	Not required	J-35616-4A (PU)	No Tool Required		
II	Not required	J-35616-5 (PU)	No Tool Required		

X405 Chassis Wiring Harness to Chassis Wiring Harness (-Cutaway)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A - B		_	_			Not Occu- pied	A - B	_	ı		_	_
С	0.8	BU	1320	_	ı	Center High Mounted Stop Lamp Control 2	С	0.8	BU	1320	II	_
D		_	_			Left Rear Turn Signal Lamp Control	D	1	YE	618	II	_
Е						Right Rear Turn Signal Lamp Control	E	1	GN	619	II	_
F		_	_		ı	Trailer Park Lamp Control	F	1	BN	2109	II	_
G	0.8	BK	150	I	_	Ground Ground	G	3 1	BK BK	150 150	II II	LWN - LWN
Н			_			Trailer Back- up Lamp Control	Н	1	GN	1624	II	_
J	_	_		_		Not Occu- pied	J	_	_	_	_	
К	_	_	_	_	_	Courtesy Lamp Control	K	0.8	D-BU / WH	149	II	_

X405 Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness (Cutaway)





655815 655819

Connector Part Information

Harness Type: Chassis Rear Wiring Harness Extension

Harness

OEM Connector: 15326660

Service Connector: Service by Harness - See Part Catalog Description: 10-Way F 280 GT Series, Sealed(BK)

Connector Part Information

Harness Type: Chassis Rear Wiring Harness Extension

Harness

OEM Connector: 15326661

Service Connector: Service by Harness - See Part Catalog Description: 10-Way M 280 GT Series, Sealed(BK)

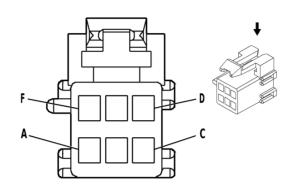
Terminal Part Information

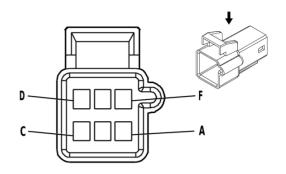
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-4A (PU)	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

X405 Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness (Cutaway)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A - B	l		l	1	_	Not Occu- pied	A B		l		1	_
С	1	L-BU	1320	-	_	Center High Mounted Stop Lamp Control 2	С	1	L-BU	1320	II	_
D	1	YE	618	Ī	_	Left Rear Turn Signal Lamp Control	D	1	YE	618	II	_
Е	1	D-GN	619	1	_	Right Rear Turn Signal Lamp Control	E	1	D-GN	619	Ш	_
F	1	BN	2109	I	_	Trailer Park Lamp Control	F	1	BN	2109	II	_
G	1	D-BU	150	I	_	Ground	G	1	L-BU	150	П	_
Н	1	WH	1624	I	_	Trailer Back- up Lamp Control	Н	1	OG	1624	II	_
J			_			Not Occu- pied	J			_		_
К	0.8	D-BU / WH	149	I	_	Courtesy Lamp Control	К	0.8	D-BU / WH	149	II	_

X407 Auxiliary Heater and Air Conditioning Wiring Harness to Body Wiring Harness





40422 40425

Connector Part Information

Harness Type: Auxiliary Heater and Air Conditioning Wiring

Harness

OEM Connector: 12064762

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 150 Metri-Pack Series(GY)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12064763 Service Connector: 12101876

Description: 6-Way M 150 Metri-Pack Series (GY)

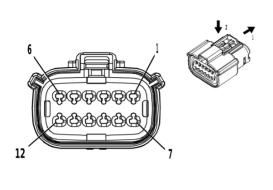
Terminal Part Information

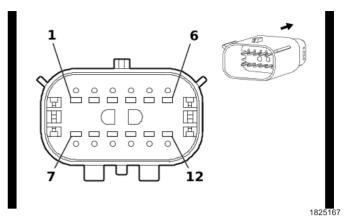
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X407 Auxiliary Heater and Air Conditioning Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.35	OG	2775	I		Rear Air Temperature Door Actua- tor Control	Α	0.35	OG	2775	II	1
В	0.35	D-BU	1926	I		Auxiliary Blower Motor Low Speed Control 2	В	0.35	D-BU	1926	II	
С	0.35	WH	1924	I	I	Auxiliary Blower Motor High Speed Control	O	0.35	WH	1924	II	1
D	0.35	OG	1925	_	I	Auxiliary Blower Motor Medium Speed Con- trol 2	D	0.35	OG	1925	II	I
Е	0.35	BN	341	I	_	Run Ignition 3 Voltage	E	0.35	BN	341	II	_
F	0.35	GY	2599	I	_	Rear Mode Door Actua- tor Signal	F	0.35	GY	2599	II	_

X408 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness





2871860

Connector Part Information

Harness Type: Rear Object Alarm Sensor Wiring Harness

OEM Connector: 13653762

6-418

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: 33369138

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	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

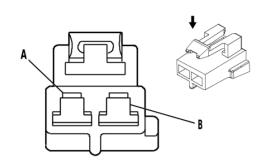
X408 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness

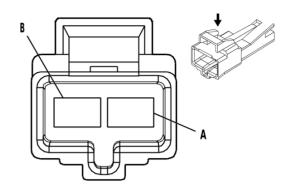
				·								
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	YE / WH	2377	1	ı	Right Rear Middle Park- ing Assist Sensor Sig- nal	1	0.5	YE / WH	2377	=	
2	0.5	YE / VT	2378	I	ı	Right Rear Outer Park- ing Assist Sensor Sig- nal	2	0.5	YE / VT	2378	II	
3	0.5	BK / GY	2379	1	-	Object Sen- sor Low Reference	3	0.5	BK / GY	2379	II	
4	0.5	D-BU	2374	1		Object Sen- sor Voltage Reference	4	0.5	BN / WH	2374	Ш	
5	0.5	YE	2375	I	_	Left Rear Outer Park- ing Assist Sensor Sig- nal	5	0.5	YE	2375	II	_
6	0.5	YE / D-BU	2376	I	_	Left Rear Middle Park- ing Assist Sensor Sig- nal	6	0.5	YE / D-BU	2376	II	_
7	0.5	BK	2150	I	_	Ground	7	1	BK	2150	II	

X408 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness (cont'd)

											<u> </u>	
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	L-GN	5060	I	_	Low Speed GMLAN Seri- al Data	8	0.5	L-GN	5060	II	
9	_	_	_	_	_	Not Occu- pied	9	_	_	_	_	_
10	0.5	GY / YE	5853	I	ı	Driver Side Side Object Detection LED Signal 1	10	0.5	GY / YE	5853	=	1
11	0.5	GY	5861	I	ı	Passenger Side Object Detection LED Signal 1	11	0.5	GY	5861	=	1
12	0.5	RD / L-GN	3140	I	_	Battery Positive Voltage	12	0.5	RD / L-GN	3140	=	_

X409 Auxiliary Heater and Air Conditioning Wiring Harness to Body Wiring Harness





808706 38284

Connector Part Information

Harness Type: Auxiliary Heater and Air Conditioning Wiring

Harness

OEM Connector: 12064749

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 480 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12064750 Service Connector: 19368865

Description: 2-Way M 480 Metri-Pack Series(BK)

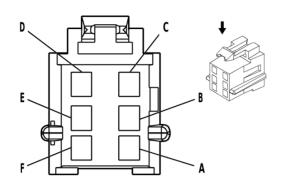
Terminal Part Information

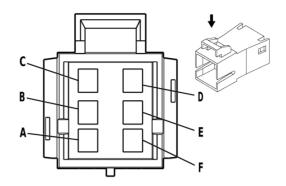
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-40 (BU)	No Tool Required
II	Not required	J-35616-41 (BU)	No Tool Required

X409 Auxiliary Heater and Air Conditioning Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	5	RD / WH	1740	Ι		Battery Positive Voltage	Α	5	RD / WH	1740	=	
В	5	BK	850	I	_	Ground Ground	В	5 5	BK BK	850 450	II	

X410 Tail Lamp Wiring Harness to Body Wiring Harness





62456 39689

Connector Part Information

Harness Type: Tail Lamp Wiring Harness

OEM Connector: 12064752 Service Connector: 19368739

Description: 6-Way F 280 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12064754 Service Connector: 19368739

Description: 6-Way M 280 Metri-Pack Series(BK)

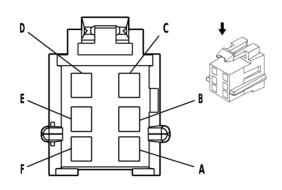
Terminal Part Information

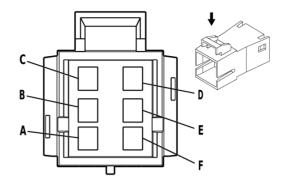
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

X410 Tail Lamp Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.5	BN	2509	I		Left Rear Park Lamp Control	Α	0.5	BN	2509	II	1
В	1	YE	618	I	1	Left Rear Turn Signal Lamp Control	В	1	YE	618	II	_
С	l		_	1	l	Not Occu- pied	C	ı				_
D	0.8	BK	850	I	_	Ground	D	0.8	BK	850	П	_
Е		_	_	_	_	Not Occu- pied	E	_			_	_
F	0.8	L-GN	24	I	_	Backup Lamp Control	F	0.8	L-GN	24	II	_

X411 Rear Door Door Wiring Harness - Left to Body Wiring Harness





62456 39689

Connector Part Information

Harness Type: Rear Door Door Wiring Harness - Left

OEM Connector: 12064752

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 280 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12064754 Service Connector: 19368739

Description: 6-Way M 280 Metri-Pack Series(BK)

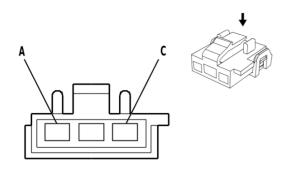
Terminal Part Information

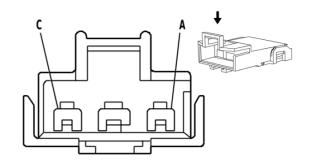
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool			
I	Not required	J-35616-4A (PU)	No Tool Required			
II	Not required	J-35616-5 (PU)	No Tool Required			

X411 Rear 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
А	1	TN	1859	I	ı	Left Rear Midrange Speaker [+] Control	А	1	TN	1859	II	I
В	1	WH	1959	-	I	Left Rear Midrange Speaker [-] Control	В	1	WH	1959	=	I
С	_	_	_	_	_	Not Occu- pied	С	_	_	_	_	_
D	5	PU	293	I	_	Rear Defog- ger Grid Con- trol	D	5	PU	293	II	_
Е	3	BK	850	I	_	Ground	Е	3	BK	850	II	_
F	_	_	_	_	_	Not Occu- pied	F	_	_	_	_	_

X412 Rear Door Door Wiring Harness to Body Wiring Harness





333042 1884161

Connector Part Information

Harness Type: Rear Door Door Wiring Harness

OEM Connector: 12020014

Service Connector: Service by Harness - See Part Catalog

Description: 3-Way F Weather Pack Series, Sealed(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12045681 Service Connector: 19368884

Description: 3-Way M 280, 480 Metri-Pack Series(BK)

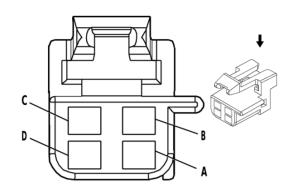
Terminal Part Information

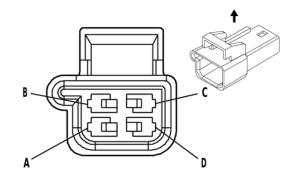
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool			
I	Not required	J-35616-40 (BU)	No Tool Required			
II Not required III Not required		J-35616-4A (PU)	No Tool Required			
		J-35616-41 (BU)	No Tool Required			
IV	Not required	J-35616-5 (PU)	No Tool Required			

X412 Rear Door Door Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.5	BN	2509	II	1	Left Rear Park Lamp Control	А	0.5	BN	2509	IV	-
В	5	PU	293	I		Rear Defog- ger Grid Con- trol	В	5	PU	293	III	
С	0.5 3	BK BK	1050 1050	II	_	Ground Ground	С	3	BK	1050	IV	_

X415 Radio Rear Speaker Wiring Harness to Body Wiring Harness





130637 40399

Connector Part Information

Harness Type: Radio Rear Speaker Wiring Harness

OEM Connector: 12064760

Service Connector: Service by Harness - See Part Catalog

Description: 4-Way F 150 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12065658 Service Connector: 19368719

Description: 4-Way M 150 Metri-Pack Series(BK)

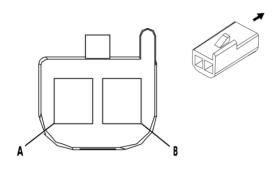
Terminal Part Information

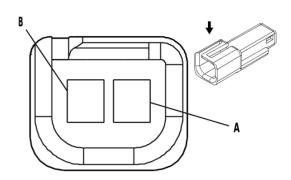
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X415 Radio Rear Speaker Wiring Harness to Body Wiring Harness

									_	_		
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	1	WH	1959	I		Left Rear Midrange Speaker [-] Control	А	1	WH	1959	Ш	
В	1	TN	1859	I	ı	Left Rear Midrange Speaker [+] Control	В	1	TN	1859	II	I
С	1	OG	1955	I	ı	Right Rear Midrange Speaker [-] Control	С	1	OG	1955	II	I
D	1	TN	1855	I	_	Right Rear Midrange Speaker [+] Control	D	1	TN	1855	II	_

X419 Center High Mounted Stop Lamp Jumper Wiring Harness to Body Wiring Harness





82383 1664595

Connector Part Information

Harness Type: Center High Mounted Stop Lamp Jumper

Wiring Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12048457 Service Connector: 13584278

Description: 2-Way M 150 Metri-Pack Series (BK)

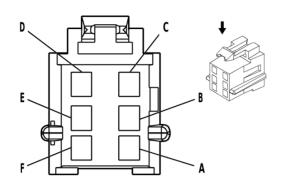
Terminal Part Information

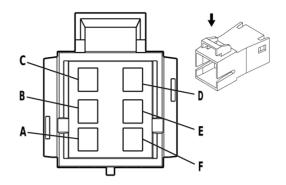
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X419 Center High Mounted Stop Lamp Jumper Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.8	L-BU	1320	I	I	Center High Mounted Stop Lamp Control 2	А	0.8	L-BU	1320	II	
В	0.8	BK	850	I	_	Ground	В	0.8	BK	850	II	_

X420 Tail Lamp Wiring Harness to Body Wiring Harness





62456 39689

Connector Part Information

Harness Type: Tail Lamp Wiring Harness

OEM Connector: 12064752 Service Connector: 19368739

Description: 6-Way F 280 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 12064754 Service Connector: 19368739

Description: 6-Way M 280 Metri-Pack Series(BK)

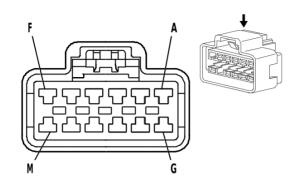
Terminal Part Information

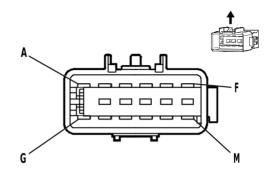
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-5 (PU)	No Tool Required

X420 Tail Lamp Wiring Harness to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	0.5	BN	2609	I	_	Right Rear Park Lamp Control	Α	0.5	BN	2609	II	_
В	1	D-GN	619	I		Right Rear Turn Signal Lamp Control	В	1	D-GN	619	II	_
С		_	_			Not Occu- pied	С	_	_	_		_
D	0.8	BK	1050	I	_	Ground	D	0.8	BK	1050	П	_
Е		_	_	_		Not Occu- pied	E	_		_	_	_
F	0.8	L-GN	24	I		Backup Lamp Control	F	0.8	L-GN	24	II	_

X421 Roof Console Wiring Harness to Body Wiring Harness





476149 847281

Connector Part Information

Harness Type: Roof Console Wiring Harness

OEM Connector: 15326110 Service Connector: 15326110

Description: 12-Way F 280 GT Series(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 15326942 Service Connector: 15326942

Description: 12-Way M 280 GT Series(BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575753	J-35616-4A (PU)	J-38125-215A
I	13575753	J-35616-4A (PU)	J-38125-215A
II	13575507	J-35616-5 (PU)	J-38125-215A

X421 Roof Console Wiring Harness to Body Wiring Harness

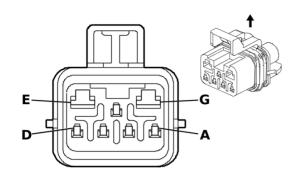
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
Α	0.8	D-BU / WH	149	I	_	Courtesy Lamp Control	А	0.8	D-BU / WH	149	II	_
В	0.8	D-BU / WH	149	Ι		Courtesy Lamp Control	В	0.8	D-BU / WH	149	II	_
С	0.35	BN / WH	230	_	I	Instrument Panel Lamp Dimming Control	O	0.35	BN / WH	230	II	_
D	0.5	WH	1924	1		Auxiliary Blower Motor High Speed Control	D	0.5	WH	1924	Ш	_
E	0.5	OG	1925	-	I	Auxiliary Blower Motor Medium Speed Con- trol 2	Ш	0.5	OG	1925	II	_
F	0.5	D-BU	1926	1	_	Auxiliary Blower Motor Low Speed Control 2	F	0.5	D-BU	1926	Ш	_
G	0.35	BN	341	I		Run Ignition 3 Voltage	G	0.35	BN	341	II	_
Н	8.0	BK	1050	1		Ground	Н	0.8	BK	1050	II	_

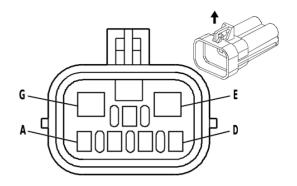
6-428 Electrical Component and Inline Harness Connector End Views

X421 Roof Console Wiring Harness to Body Wiring Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
J	0.8	OG	1732	I		Control Mod- ule 12V Reference 3	J	0.8	OG	1732	II	
K	0.5	BN	5263	I	_	Auxiliary HVAC Rear Temperature Signal	К	0.5	BN	5263	II	_
L	0.5	PU / WH	5264	-		Auxiliary HVAC Rear Mode Signal	L	0.5	PU / WH	5264	II	
М	0.5	PK / BK	5265	I	_	Auxiliary HVAC Rear Control Sig- nal	M	0.5	PK / BK	5265	=	

X450 Trailer Jumper Wiring Harness to Chassis Wiring Harness (NE7)





816167 1372292

Connector Part Information

Harness Type: Trailer Jumper Wiring Harness

OEM Connector: 12059472

Service Connector: Service by Harness - See Part Catalog

Description: 7-Way F 150 Metri-Pack, 480 Series,

Sealed(BK)

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 12052200

Service Connector: Service by Harness - See Part Catalog

Description: 7-Way M 150, 480 Metri-Pack Series,

Sealed(BK)

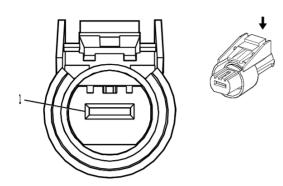
Terminal Part Information

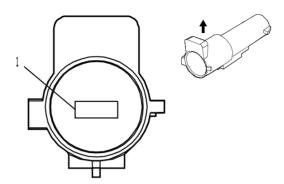
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
1	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required
III	Not required	J-35616-41 (BU)	No Tool Required

X450 Trailer Jumper Wiring Harness to Chassis Wiring Harness (NE7)

											` ,	
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
А	_	L-GN	1624	I	_	Trailer Back- up Lamp Control	А	1	L-GN	1624	II	
В	_	BN	2109	I	_	Trailer Park Lamp Control	В	1	BN	2109	II	
С		YE	1618	I	_	Left Rear Trailer Stop/ Turn Lamp Control	С	1	YE	1618	II	1
D	_	_	_	_	_	Not Occu- pied	D	_	_			
Е	_	D-BU	47	I	_	Trailer Auxili- ary Control	Е	3	D-BU	47	III	
F		D-GN	1619	I	_	Right Rear Trailer Stop/ Turn Lamp Control	F	1	D-GN	1619	II	
G	_	RD / BK	742	I	_	Battery Posi- tive Voltage	G	3	RD / BK	742	III	_

X460 Chassis Wiring Harness to Chassis Wiring Harness





814659 814660

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 15326120

Service Connector: Service by Harness - See Part Catalog Description: 1-Way F 800 Metri-Pack Series, Sealed(BK)

Connector Part Information

Harness Type: Chassis Wiring Harness

OEM Connector: 15326119

Service Connector: Service by Harness - See Part Catalog Description: 1-Way M 800 Metri-Pack Series, Sealed(BK)

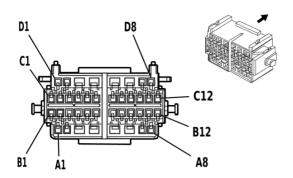
Terminal Part Information

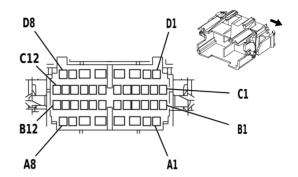
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-44 (YE)	No Tool Required
II	Not required	J-35616-45 (YE)	No Tool Required

X460 Chassis Wiring Harness to Chassis Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	8	WH	22	I	_	Trailer Ground	1	8	WH	22	II	_

X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness





1538788 1715230

Connector Part Information

 ${\it Harness\ Type:\ Front\ Side\ Door\ Door\ Wiring\ Harness\ -\ Driver}$

OEM Connector: 15448129

Service Connector: Service by Harness - See Part Catalog

Description: 40-Way F 150, 280 GT Series(BK)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 15416976 Service Connector: 89047197

Description: 40-Way M 150, 280 GT 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-35616-4A (PU)	No Tool Required
III	Not required	No Tool Required	No Tool Required
IV	13575508	J-35616-5 (PU)	J-38125-215A
V	19354111	J-35616-3 (GY)	J-38125-215A
VI	Not required	No Tool Required	No Tool Required

X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness

	The contract of the contract o											
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A1	0.35	TN	126	-	-	Left Front Door Open Switch Sig- nal	A1	0.35	TN	126	V	ı
A2 - A4		_	_		_	Not Occu- pied	A2 - A4	_				_
A5	0.35 3	BK BK	450 450	= =	(AU3) - (DE5) - (A31) (AU3) + (DE5/ A31)	Ground Ground	A5	3	ВК	450	IV	ı
A6	0.35	BN / WH	230	II	_	Instrument Panel Lamp Dimming Control	A6	0.35	BN / WH	230	IV	_
A7	0.8	OG	2267	I	_	Outside Rearview Mirror Heater Control	A7	0.8	OG	2267	V	_

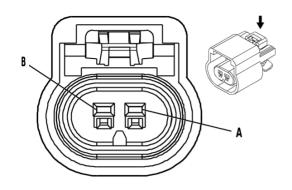
X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness (cont'd)

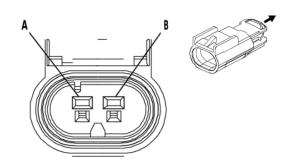
						iailiess - Di						
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A8	0.35	PU / WH	889	I	I	Right Out- side Rear- view Mirror Motor Down Control	A8	0.5	PU / WH	889	V	_
B1	0.35	OG / BK	781	I	_	Driver Door Lock Switch Unlock Sig- nal	B1	0.35	OG / BK	781	٧	_
B2	0.35	PK / BK	780	I	_	Driver Door Lock Switch Lock Signal	B2	0.35	PK / BK	780	V	_
В3	0.35	GY / BK	745	I	_	Left Front Door Ajar Switch Sig- nal	В3	0.35	GY / BK	745	٧	_
B4	0.35	BK	450	I		Ground	В4	0.35	BK	450	V	_
B5 - B6	_	_	_	_	_	Not Occu- pied	B5 - B6	_	_	_	_	_
В7	0.8	TN	694	I	_	Driver Door Lock Actua- tor Unlock Control	В7	0.8	TN	694	V	_
В8	0.8	GY	295	I	_	Door Lock Actuator Lock Control	В8	0.8	GY	295	V	_
B9 - B1- 1		_	_		_	Not Occu- pied	B9 - B11	_	_	_		_
B1- 2	0.8	D-BU	1857	I	_	Left Front Midrange Speaker [+] Control	B1- 2	0.8	D-BU	1857	V	_
C1	0.5	PU / WH	6628	I	_	Left Front Side Impact Sensor Low Reference	C1	0.5	PU / WH	6628	V	_
C2	0.5	WH	2132	I	_	Left Front Side Impact Sensor Sig- nal	C2	0.5	WH	2132	V	_
C3 - C6		_	_	_	_	Not Occu- pied	C3 - C6	_	_	—	_	_
C7	0.5 0.5	GY / YE L-BU / WH	5853 1314	III I	UFT - UFT	Driver Side Side Object Detection LED Signal 1 Left Front Turn Signal Lamp Control	C7	0.5 0.5	GY / YE L-BU / WH	5853 1314	VI V	UFT - UFT
C8	0.5	RD / WH	4340	I	_	Battery Positive Voltage	C8	0.5	RD / WH	4340	V	_
C9 - C1- 1	_	_		_	_	Not Occu- pied	C9 - C1- 1	_	_	_	_	_

X500 Front Side Door Door Wiring Harness - Driver to Body Wiring Harness (cont'd)

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Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
C1- 2	0.8	L-BU	1957	1	_	Left Front Midrange Speaker [-] Control	C1- 2	0.8	L-BU	1957	V	
D1 - D3	_	_	_	_	_	Not Occu- pied	D1 - D3	_	_	_	_	_
D4	3	TN	167	II	_	Right Front Window Down Switch Main Control Signal	D4	3	TN	167	IV	I
D5	3	L-BU	166	Ш	_	Right Front Window Up Switch Main Control Sig- nal	D5	3	L-BU	166	IV	
D6	3	D-GN	1001	II	_	Retained Accessory Power Ignition Voltage	D6	3	D-GN	1001	IV	1
D7	0.35	BN / WH	1498	I	_	Right Out- side Rear- view Mirror Motor Up Control	D7	0.5	BN / WH	1498	>	_
D8	0.35	OG / WH	881	I	_	Right Out- side Rear- view Mirror Motor Right Control	D8	0.5	OG / WH	881	V	_

X501 Airbag Wiring Harness to Front Side Door Door Wiring Harness - Driver





523630 681875

Connector Part Information

Harness Type: Airbag Wiring Harness

OEM Connector: 13510085

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 150 GT Series, Sealed(BK)

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness - Driver

OEM Connector: 13510099

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 150 GT Series, Sealed(BK)

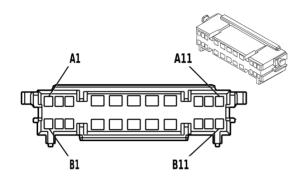
Terminal Part Information

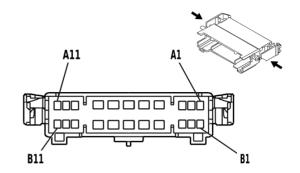
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	J-35616-2A (GY)	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X501 Airbag Wiring Harness to Front Side Door Door Wiring Harness - Driver

Р	in	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
,	A	0.5	PU / WH	6628	I		Left Front Side Impact Sensor Low Reference	А	0.5	PU / WH	6628	II	-
	В	0.5	WH	2132	I	_	Left Front Side Impact Sensor Sig- nal	В	0.5	WH	2132	II	_

X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness





524205 524211

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness -

Passenger

OEM Connector: 15326063

Service Connector: Service by Harness - See Part Catalog Description: 22-Way F 150, 280 GT Series, Sealed(GY)

Connector Part Information

Harness Type: Body Wiring Harness

OEM Connector: 15326064 Service Connector: 15326064

Description: 22-Way M 150, 280 GT Series, Sealed(GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
1	Not required	J-35616-14 (GN)	No Tool Required
II	Not required	J-35616-4A (PU)	No Tool Required
III	Not required	No Tool Required	No Tool Required
IV	13575508	J-35616-5 (PU)	J-38125-215A
V	19354111	J-35616-3 (GY)	J-38125-215A
VI	Not required	No Tool Required	No Tool Required

X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness

Pin	Size	Color	Circuit	Terminal	Option	Function	Pin	Size	Color	Circuit	Terminal	Option
				Type ID							Type ID	
A1	0.8	OG	1853	-	I	Right Front Midrange Speaker [+] Control	A1	0.8	OG	1853	>	ı
A2	0.8	TN	294	-		Door Lock Actuator Un- lock Control	A2	0.8	TN	294	>	
А3	0.8	G	2267	_	l	Outside Rearview Mirror Heater Control	А3	0.8	OG	2267	>	ı
A4	3	L-BU	166	II		Right Front Window Up Switch Main Control Sig- nal	A4	3	L-BU	166	IV	
A5	0.35 0.8	BK BK	1850 1850	= =	(AU3) - (A31) - (DE5) (AU3) + (DE5/ A31)	Ground Ground	A5	0.8	вк	1850	IV	_

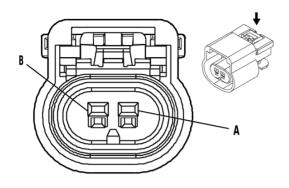
X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness (cont'd)

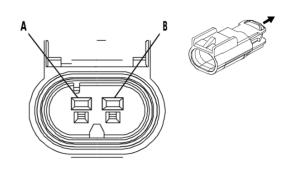
	٥.						-					(cont a)
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A6	0.35	BN / WH	1498	II	_	Right Out- side Rear- view Mirror Motor Up Control	A6	0.5	BN / WH	1498	IV	_
A7	0.35	OG / WH	881	=	_	Right Out- side Rear- view Mirror Motor Right Control	A7	0.5	OG / WH	881	IV	1
A8	0.35	TN / WH	746	II	_	Right Front Door Ajar Switch Sig- nal	A8	0.35	TN / WH	746	IV	
A9	0.35	BK	1850	I	_	Ground	A9	0.35	BK	1850	V	
A1- 0	0.5	D-GN	2134	-	_	Right Front Side Impact Sensor Sig- nal	A1- 0	0.5	D-GN	2134	>	
A1- 1	0.35	L-BU	244	1	_	Passenger Door Lock Switch Lock Control	A11	0.35	L-BU	244	V	1
B1	0.8	D-GN	1953	I	_	Right Front Midrange Speaker [-] Control	B1	0.8	D-GN	1953	V	1
B2	0.8	GY	295	I	_	Door Lock Actuator Lock Control	B2	0.8	GY	295	V	
В3	0.5 0.5	GY D-BU / WH	5861 1315	= -	UFT - UFT	Passenger Side Object Detection LED Signal 1 Right Front Turn Signal Lamp Control	В3	0.5 0.5	GY D-BU / WH	5861 1315	VI	UFT - UFT
B4	3	TN	167	II	_	Right Front Window Down Switch Main Control Signal	B4	3	TN	167	IV	_
B5	3	D-GN	1001	II	_	Retained Accessory Power Ignition Voltage	B5	3	D-GN	1001	IV	_
В6	0.35	BN / WH	230	II	_	Instrument Panel Lamp Dimming Control	В6	0.35	BN / WH	230	IV	_
В7	0.35	PU / WH	889	II	_	Right Out- side Rear- view Mirror Motor Down Control	В7	0.5	PU / WH	889	IV	_
В8	0.35	L-GN	1177	II	_	Right Front Door Open Switch Sig- nal	В8	0.35	L-GN	1177	IV	_
В9	_					Not Occu- pied	В9		_			

X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
B1- 0	0.5	WH / BK	6629	I	_	Right Front Side Impact Sensor Low Reference	B1- 0	0.5	WH / BK	6629	V	
B1- 1	0.35	D-BU	245	I	_	Passenger Door Lock Switch Un- lock Control	B11	0.35	D-BU	245	V	_

X601 Side Impact Sensor - Right Front Jumper Wiring Harness to Front Side Door Door Wiring Harness - Passenger





632351 681875

Connector Part Information

Harness Type: Side Impact Sensor - Right Front Jumper

Wiring Harness

OEM Connector: Not Available

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F

Connector Part Information

Harness Type: Front Side Door Door Wiring Harness -

Passenger

OEM Connector: 13510099

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 150 GT Series, Sealed(BK)

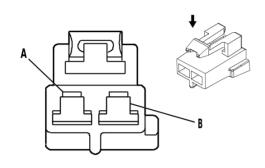
Terminal Part Information

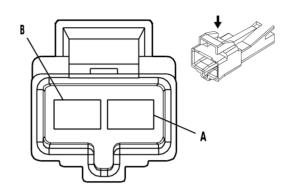
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Not required	No Tool Required	No Tool Required
II	Not required	J-35616-3 (GY)	No Tool Required

X601 Side Impact Sensor - Right Front Jumper Wiring Harness to Front Side Door Door Wiring Harness - Passenger

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
Α	0.5	WH / BK	6629	I	ı	Right Front Side Impact Sensor Low Reference	А	0.5	WH / BK	6629	II	I
В	0.5	D-GN	2134	_	_	Right Front Side Impact Sensor Sig- nal	В	0.5	D-GN	2134	Ш	

X901 Rear Window Defogger Wiring Harness to Rear Door Door Wiring Harness - Left





808706 38284

Connector Part Information

Harness Type: Rear Window Defogger Wiring Harness

OEM Connector: 12064749

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 480 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Rear Door Door Wiring Harness - Left

OEM Connector: 12064750

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 480 Metri-Pack Series(BK)

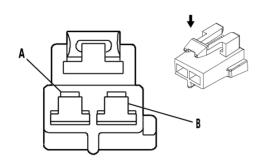
Terminal Part Information

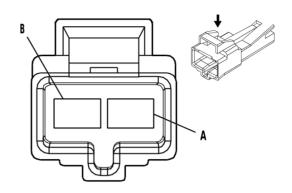
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	Not required	J-35616-40 (BU)	No Tool Required		
II	Not required	J-35616-40 (BU)	No Tool Required		
III	Not required	J-35616-41 (BU)	No Tool Required		

X901 Rear Window Defogger Wiring Harness to Rear Door Door Wiring Harness - Left

_													
	Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
	Α	5	PU	293	I		Rear Defog- ger Grid Con- trol	A	5	PU	293	III	_
	В	3	BK	850	I		Ground	В	3	BK	850	П	_

X902 Rear Window Defogger Wiring Harness to Rear Door Door Wiring Harness





808706 38284

Connector Part Information

Harness Type: Rear Window Defogger Wiring Harness

OEM Connector: 12064749

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F 480 Metri-Pack Series(BK)

Connector Part Information

Harness Type: Rear Door Door Wiring Harness

OEM Connector: 12064750

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way M 480 Metri-Pack Series(BK)

Terminal Part Information

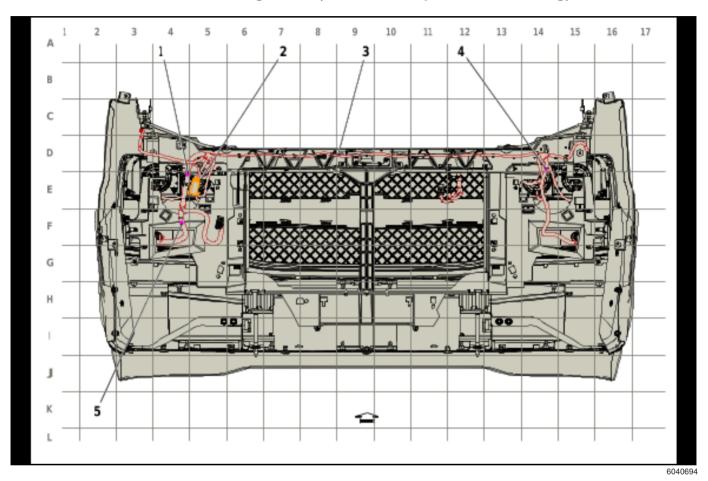
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool		
I	Not required	J-35616-40 (BU)	No Tool Required		
II	Not required	J-35616-40 (BU)	No Tool Required		
III	Not required	J-35616-41 (BU)	No Tool Required		

X902 Rear Window Defogger Wiring Harness to Rear Door Door Wiring Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
Α	5	PU	293	_	1	Rear Defog- ger Grid Con- trol	А	5	PU	293	III	ı
В	3	BK	1050	- 1	_	Ground	В	3	BK	1050	II	_

Electrical Component Locator and Harness Routing Views Schematic and Routing Diagrams

Harness Routing Views (Forward Lamp Harness Routing)

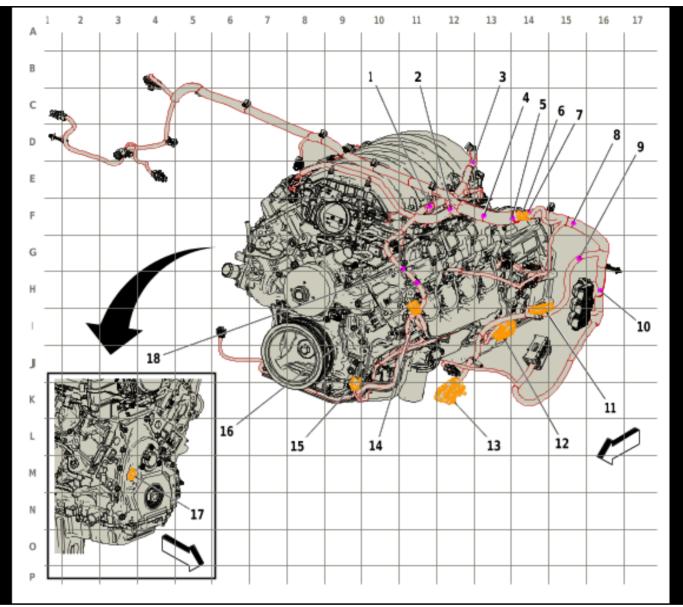


- (1) J100 Forward Lamp Wiring Harness
- (2) X150 Instrument Panel Wiring Harness to Forward Lamp Wiring Harness
- (3) J122 Forward Lamp Wiring Harness

- (4) J110 Forward Lamp Wiring Harness
- (5) J121 Forward Lamp Wiring Harness

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Harness Routing Views (Engine Harness Routing - Front (L8T))

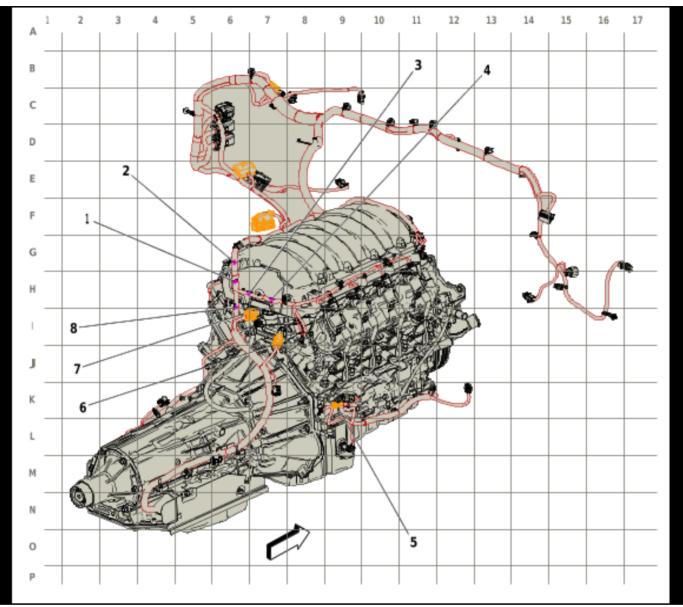


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- (1) J101 Engine Wiring Harness
- (2) J111 Engine Wiring Harness (L8T)
- (3) J181 Ignition Coil Jumper Wiring Harness (L8T)
- (4) J182 Left Ignition Coil Wiring Harness
- (5) J115 Engine Wiring Harness
- (6) X109 Engine Wiring Harness to Underhood Lamp Wiring Harness (TR9)
- (7) J102 Engine Wiring Harness
- (8) J123 Engine Wiring Harness (L8T)
- (9) J107 Engine Wiring Harness
- (10) J112 Engine Wiring Harness
- (11) X202 Instrument Panel Wiring Harness to Engine Wiring Harness

- (12) X101 Engine Wiring Harness to Chassis Wiring Harness
- (13) X100 Instrument Panel Wiring Harness to Engine Wiring Harness
- (14) X155 Engine Wiring Harness to Engine Coolant Temperature Sensor Wiring Harness
- (15) X130 Engine Wiring Harness to Camshaft Position Sensor Jumper Wiring Harness
- (16) J131 Engine Wiring Harness
- (17) X135 Engine Jumper Wiring Harness to Oil Pump Flow Control Solenoid Valve Wire Wiring Harness (L8T)
- (18) J130 Engine Wiring Harness

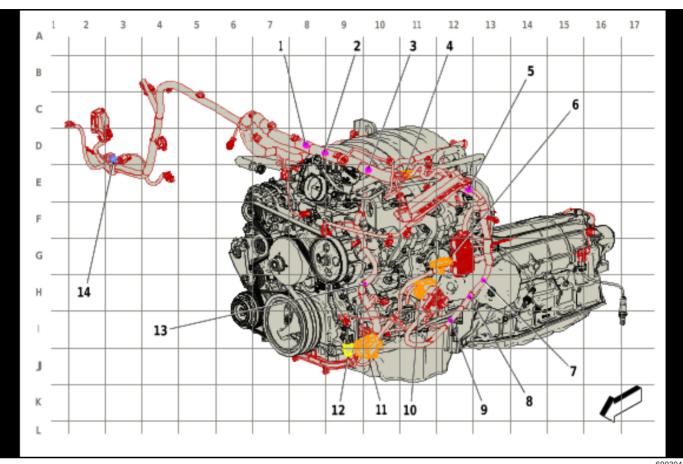
Harness Routing Views (Engine Harness Routing - Rear (L8T))



- (1) J143 Engine Wiring Harness
- J188 Right Ignition Coil Wiring Harness (2)
- J183 Right Ignition Coil Wiring Harness (L8T) (3)
- (4) J108 Engine Wiring Harness (L8T)
- X103 Engine Wiring Harness to Starter Motor Jumper Wiring Harness (5)

- (6) X161 Engine Wiring Harness to Fuel Injector Wiring Harness
- X160 Engine Wiring Harness to Fuel Injector Wiring Harness (7)
- (8) J144 Engine Wiring Harness

Harness Routing Views (Engine Harness Routing - Front (LV1))



6003041

- (1) J188 Right Ignition Coil Wiring Harness
- (2)J112 Engine Wiring Harness
- (3)J182 Left Ignition Coil Wiring Harness
- X109 Engine Wiring Harness to Underhood (4) Lamp Wiring Harness (TR9)
- (5) J115 Engine Wiring Harness
- (6) X102 Chassis Wiring Harness to Fuel Tank Wiring Harness
- (7) J185 Right Ignition Coil Wiring Harness (LV1)
- (8) J184 Left Ignition Coil Wiring Harness (LV1)

- (9)J107 Engine Wiring Harness
- (10)X101 Engine Wiring Harness to Chassis Wiring Harness
- (11) X100 Instrument Panel Wiring Harness to **Engine Wiring Harness**
- (12)X130 Engine Wiring Harness to Camshaft Position Sensor Jumper Wiring Harness
- J101 Engine Wiring Harness (13)
- (14)R6A Terminating Resistor - High Speed Bus

Harness Routing Views (Engine Harness Routing - Rear (LV1))

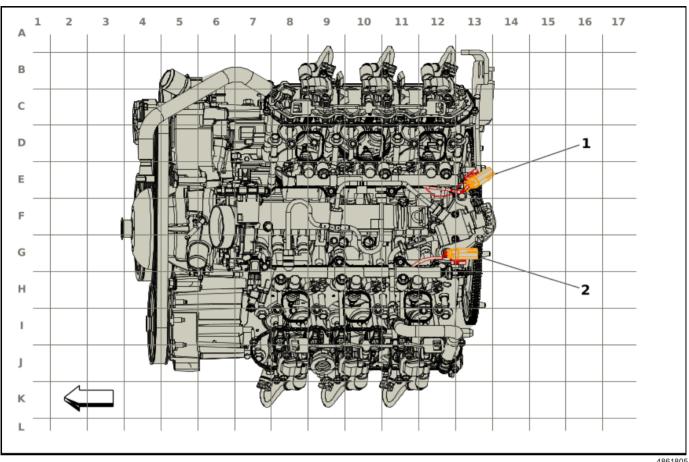


6003043

- (1) X160 Engine Wiring Harness to Fuel Injector Wiring Harness
- (2) J143 Engine Wiring Harness
- (3) J131 Engine Wiring Harness
- (4) J170 Engine Wiring Harness (LV1)
- (5) J171 Engine Wiring Harness (LV1)
- (6) J102 Engine Wiring Harness
- (7) X103 Engine Wiring Harness to Starter Motor Jumper Wiring Harness

- (8) X161 Engine Wiring Harness to Fuel Injector Wiring Harness
- (9) J130 Engine Wiring Harness
- (10) J144 Engine Wiring Harness
- (11) X175 Engine Wiring Harness to Automatic Transmission Wiring Harness (M5U)

Harness Routing Views (Fuel Injector Harness Routing (LV1))

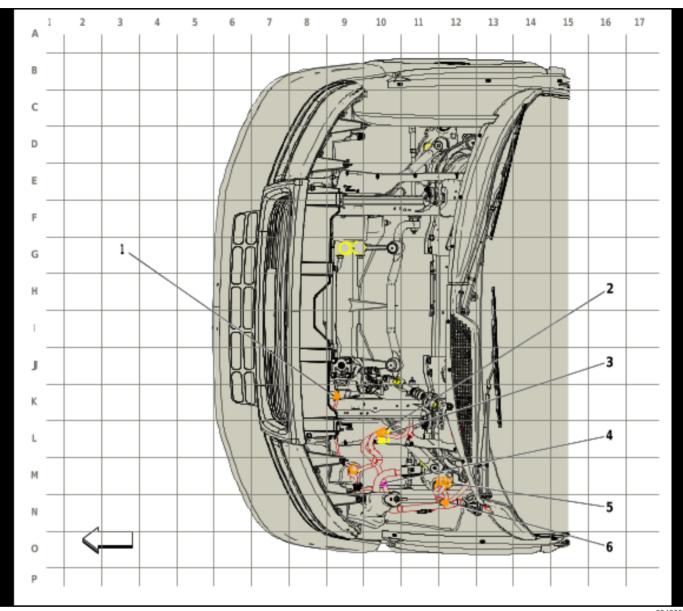


Items

X161 Engine Wiring Harness to Fuel Injector Wiring Harness (1)

X160 Engine Wiring Harness to Fuel Injector Wiring Harness (2)

Harness Routing Views (Instrument Panel Harness Routing - Engine Compartment)

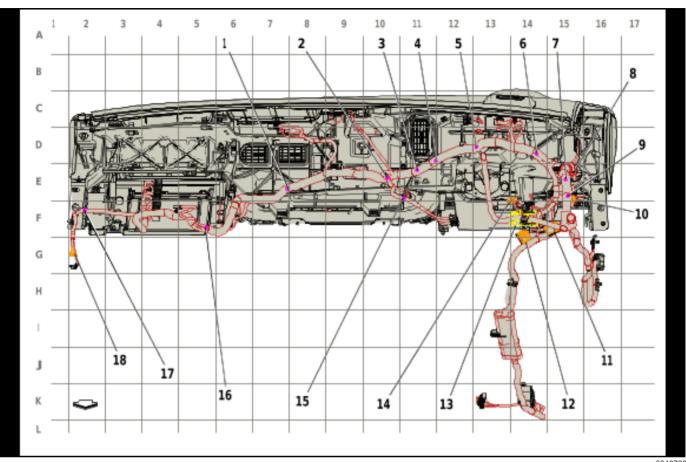


6040698

- (1) X104 Instrument Panel Wiring Harness to Air Bag Jumper Wiring Harness
- (2) X185 Instrument Panel Wiring Harness to Chassis Wiring Harness
- (3) X100 Instrument Panel Wiring Harness to Engine Wiring Harness
- (4) J211 Instrument Panel (UD7/UFT)

- (5) X202 Instrument Panel Wiring Harness to Engine Wiring Harness
- (6) X141 Instrument Panel Wiring Harness to Brake Fluid Level Indicator Wiring Harness (UJ1)

Harness Routing Views (Instrument Panel Harness Routing - Rear of Instrument Panel)

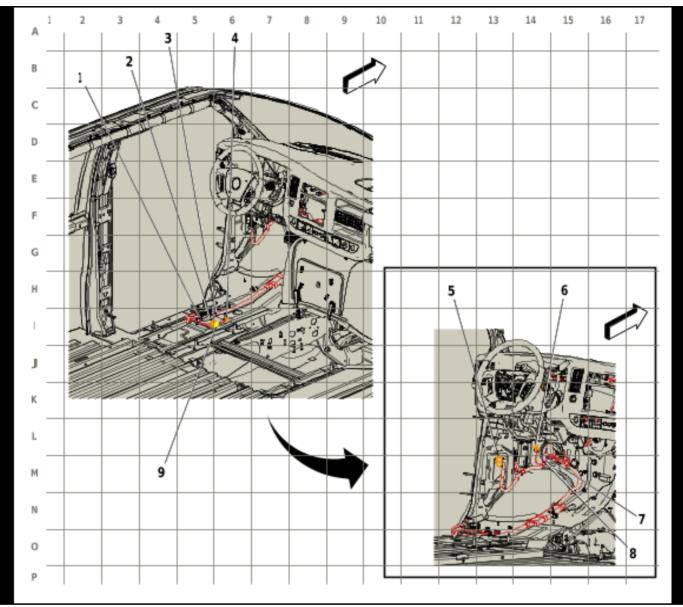


6040700

- (1) J241 Instrument Panel
- (2)J271 Instrument Panel (U2K/UE1)
- (3)J245 Instrument Panel (DE5)
- J246 Instrument Panel (DE5) (4)
- J207 Instrument Panel (5)
- J248 Instrument Panel (6)
- J263 Instrument Panel (TP3) (7)
- J244 Instrument Panel (8)
- J247 Instrument Panel (9)
- X206 Instrument Panel Wiring Harness to (10)Instrument Panel Wiring Harness
- (11) JX200 Instrument Panel Wiring Harness

- JX250 Instrument Panel Wiring Harness (12)
- (13)X200 Steering Wheel Air Bag Coil Jumper Wiring Harness to Instrument Panel Wiring Harness
- X225 Accelerator Control Wiring Harness to (14)Instrument Panel Wiring Harness
- J270 Instrument Panel (U2K) (15)
- J250 Instrument Panel (16)
- (17)J249 Instrument Panel
- X221 Instrument Panel Wiring Harness to (18)**Antenna Wiring Harness**

Harness Routing Views (Instrument Panel Harness Routing - Driver Side)

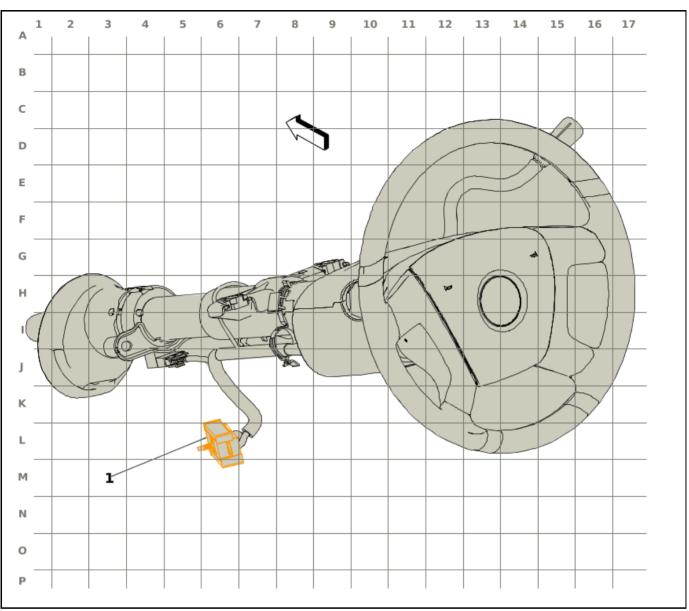


604070

- (1) J223 Instrument Panel (UVC)
- (2) X331 Instrument Panel Wiring Harness to Body Wiring Harness
- (3) J280 Instrument Panel (Cutaway without YF7)
- (4) X329 Instrument Panel Wiring Harness to Body Wiring Harness (UVC)
- (5) X318 Instrument Panel Wiring Harness to Body Wiring Harness

- (6) X220 Instrument Panel Wiring Harness to Park Brake Switch Jumper Wiring Harness
- (7) W8 Blunt Cut Trailer Provision (UY7)
- (8) J201 Instrument Panel (UFL)
- (9) X330 Instrument Panel Wiring Harness to Body Wiring Harness

Harness Routing Views (Steering Column Harness Routing)

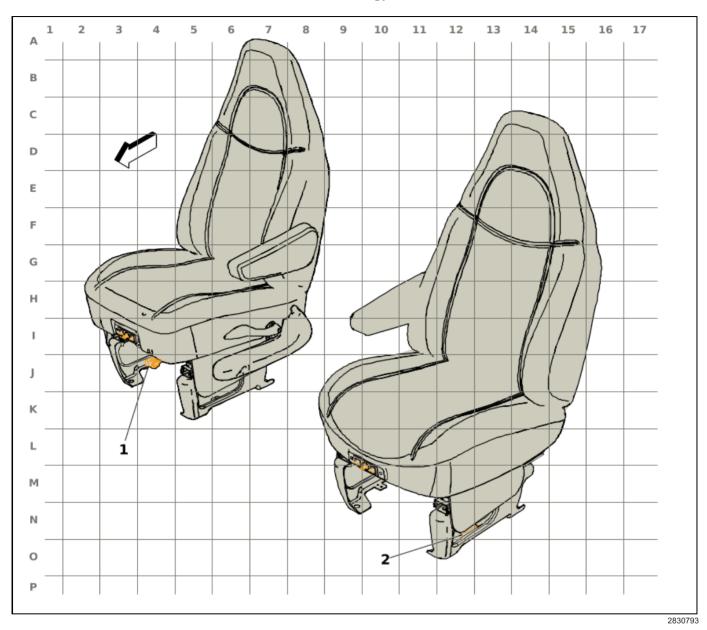


4004323

Items

X200 Steering Wheel Air Bag Coil Jumper Wiring Harness to Instrument Panel Wiring (1) Harness

Harness Routing Views (Driver Seat Harness Routing and Front Passenger Seat Harness Routing)

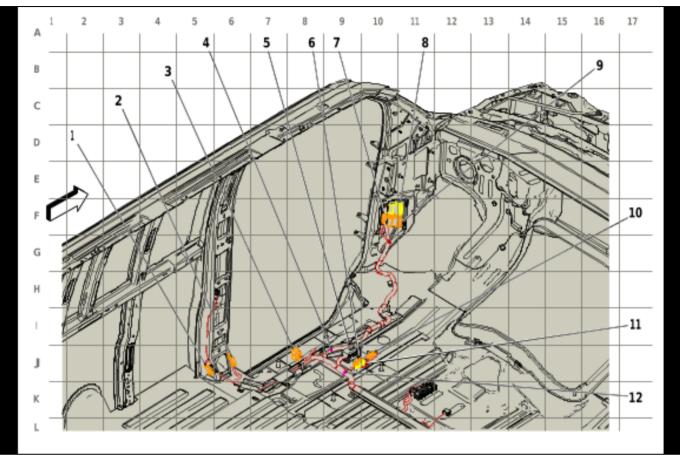


Items

(1) X306 Body Wiring Harness to Seat Wiring Harness - Passenger

(2) X307 Body Wiring Harness to Seat Wiring Harness - Driver

Harness Routing Views (Body Harness Routing - Left Front Passenger Compartment (Passenger))

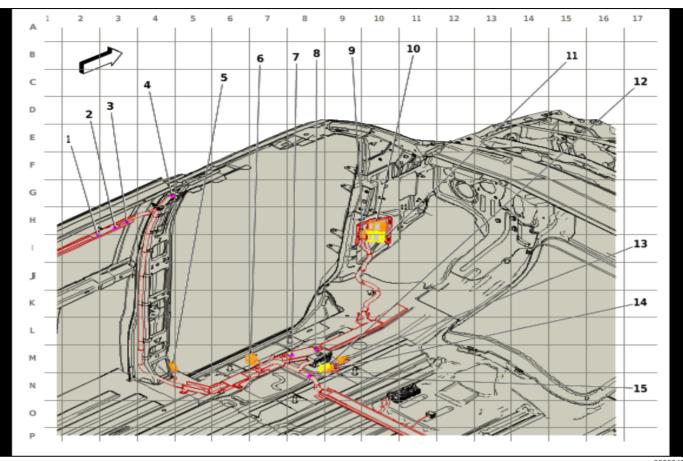


6003044

- (1) X323 Airbag Wiring Harness to Body Wiring Harness (ASF)
- (2) JX347 Body Wiring Harness
- (3) X307 Body Wiring Harness to Seat Wiring Harness Driver
- (4) J357 Body Wiring Harness
- (5) J356 Body Wiring Harness
- (6) X331 Instrument Panel Wiring Harness to Body Wiring Harness
- (7) X319 Auxiliary Heater Front Wiring Harness to Body Wiring Harness (ENC/C69/C36)

- (8) X318 Instrument Panel Wiring Harness to Body Wiring Harness
- (9) X500 Front Side Door Door Wiring Harness -Driver to Body Wiring Harness
- (10) X329 Instrument Panel Wiring Harness to Body Wiring Harness (UVC)
- (11) X330 Instrument Panel Wiring Harness to Body Wiring Harness
- (12) J334 Body Wiring Harness (UVC)

Harness Routing Views (Body Harness Routing - Left Front Passenger Compartment (Cargo))

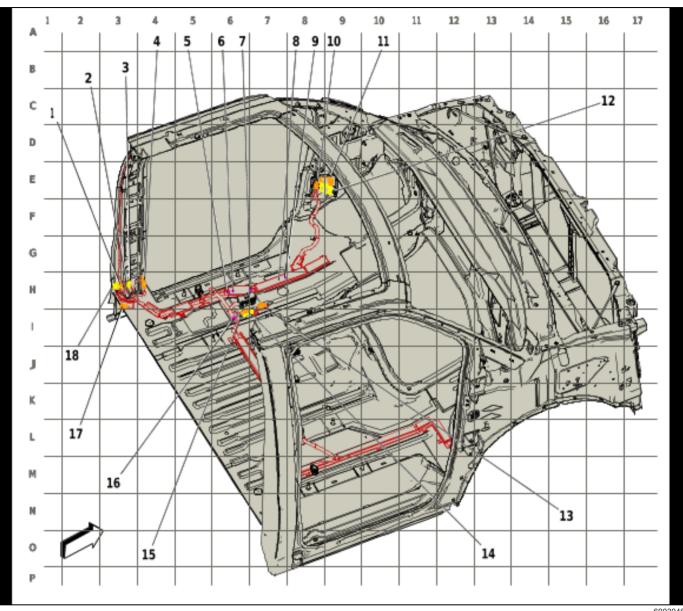


6003045

- (1) J374 Body Wiring Harness (Cargo without YF7)
- (2) J311 Body Wiring Harness (C69)
- (3) J310 Body Wiring Harness (C69)
- (4) J308 Body Wiring Harness (C69)
- (5) JX347 Body Wiring Harness
- (6) X307 Body Wiring Harness to Seat Wiring Harness Driver
- (7) J357 Body Wiring Harness
- (8) J356 Body Wiring Harness
- (9) X319 Auxiliary Heater Front Wiring Harness to Body Wiring Harness (ENC/C69/C36)

- (10) X318 Instrument Panel Wiring Harness to Body Wiring Harness
- (11) X500 Front Side Door Door Wiring Harness -Driver to Body Wiring Harness
- (12) X331 Instrument Panel Wiring Harness to Body Wiring Harness
- (13) X329 Instrument Panel Wiring Harness to Body Wiring Harness (UVC)
- (14) X330 Instrument Panel Wiring Harness to Body Wiring Harness
- (15) J334 Body Wiring Harness (UVC)

Harness Routing Views (Body Harness Routing - Left Front Passenger Compartment (Cutaway))

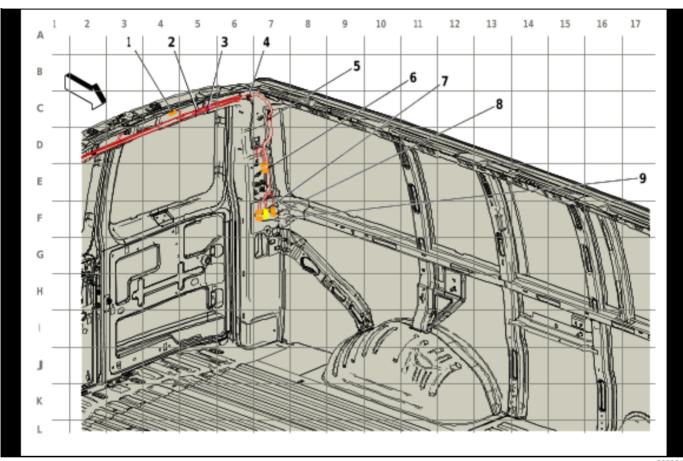


- X289 Side Access Panel Wiring Harness to (1) Instrument Panel Wiring Harness (PRP)
- X409 Auxiliary Heater and Air Conditioning Wiring Harness to Body Wiring Harness (2)(C36/C69)
- X407 Auxiliary Heater and Air Conditioning (3) Wiring Harness to Body Wiring Harness (C36/C69)
- (4) JX347 Body Wiring Harness
- (5)J311 Body Wiring Harness (C69)
- (6)J310 Body Wiring Harness (C69)
- J308 Body Wiring Harness (C69) (7)
- (8)J357 Body Wiring Harness

- (9) J355 Front Headliner Wiring Harness (C69 with YF7)
- (10)X319 Auxiliary Heater Front Wiring Harness to Body Wiring Harness (ENC/C69/C36)
- X318 Instrument Panel Wiring Harness to (11)**Body Wiring Harness**
- X500 Front Side Door Door Wiring Harness -(12)**Driver to Body Wiring Harness**
- (13)X329 Instrument Panel Wiring Harness to Body Wiring Harness (UVC)
- X330 Instrument Panel Wiring Harness to (14)**Body Wiring Harness**
- (15)X331 Instrument Panel Wiring Harness to **Body Wiring Harness**
- J334 Body Wiring Harness (UVC) (16)

- (17)X403 Rear Door Door Wiring Harness to Body Wiring Harness (UVC)
- W22 Blunt Cut Rear Speaker Provision (18)(CUTAWAY with YF1)

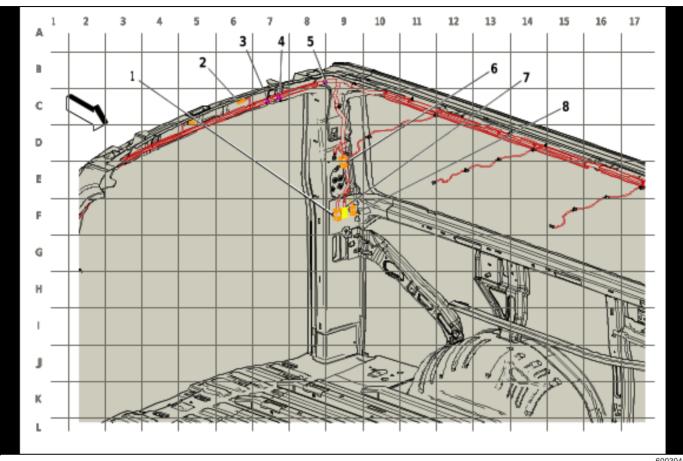
Harness Routing Views (Body Harness Routing - Left Rear Passenger Compartment (Passenger))



- X419 Center High Mounted Stop Lamp (1) Jumper Wiring Harness to Body Wiring Harness (Passenger/Cargo)
- (2)J452 Body Wiring Harness
- J453 Body Wiring Harness (3)
- J410 Body Wiring Harness (Cargo/ (4) Passenger)
- (5)J401 Body Wiring Harness (C36/C49/C69)
- X410 Tail Lamp Wiring Harness to Body (6)Wiring Harness (Passenger/Cargo)

- X409 Auxiliary Heater and Air Conditioning (7) Wiring Harness to Body Wiring Harness (C36/C69)
- (8) X407 Auxiliary Heater and Air Conditioning Wiring Harness to Body Wiring Harness (C36/C69)
- (9)X411 Rear Door Door Wiring Harness - Left to Body Wiring Harness (Passenger/Cargo)

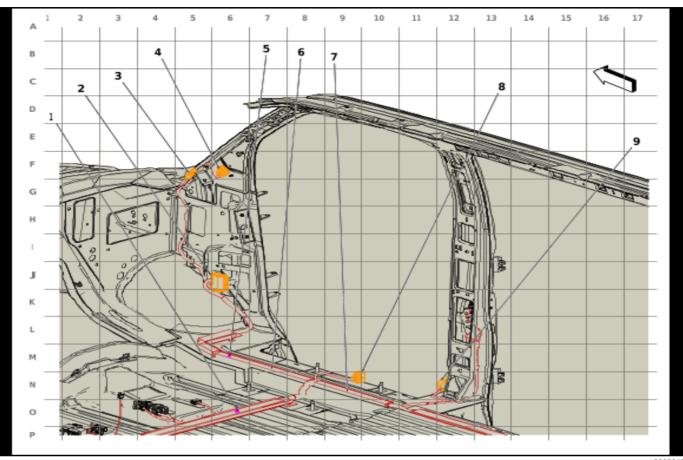
Harness Routing Views (Body Harness Routing - Left Rear Passenger Compartment (Cargo))



- (1) X411 Rear Door Door Wiring Harness - Left to Body Wiring Harness (Passenger/Cargo)
- (2)X419 Center High Mounted Stop Lamp Jumper Wiring Harness to Body Wiring Harness (Passenger/Cargo)
- (3) J453 Body Wiring Harness
- (4) J452 Body Wiring Harness
- J410 Body Wiring Harness (Cargo/ (5) Passenger)
- J375 Body Wiring Harness (Cargo (6)without YF7)

- (7) X410 Tail Lamp Wiring Harness to Body Wiring Harness (Passenger/Cargo)
- X409 Auxiliary Heater and Air Conditioning (8) Wiring Harness to Body Wiring Harness (C36/C69)
- X407 Auxiliary Heater and Air Conditioning (9) Wiring Harness to Body Wiring Harness (C36/C69)

Harness Routing Views (Body Harness Routing - Right Front Passenger Compartment)

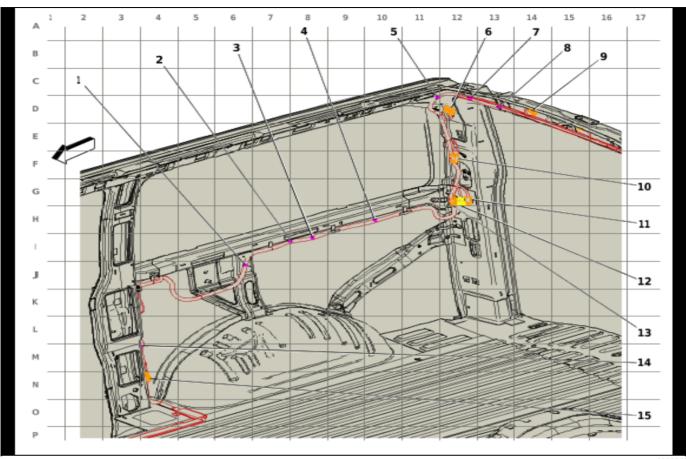


6003049

- (1) J359 Body Wiring Harness (U80)
- (2) X600 Front Side Door Door Wiring Harness -Passenger to Body Wiring Harness
- (3) X205 Roof Console Wiring Harness to Body Wiring Harness
- (4) X204 Body Wiring Harness to Roof Console Wiring Harness
- (5) J322 Body Wiring Harness (Cargo/ Passenger with AU3)

- (6) J323 Body Wiring Harness (Cargo/ Passenger with AU3)
- (7) J331 Body Wiring Harness (Passenger)
- (8) X306 Body Wiring Harness to Seat Wiring Harness Passenger
- (9) JX348 Body Wiring Harness

Harness Routing Views (Body Harness Routing - Right Rear Passenger Compartment (Cargo/Passenger))

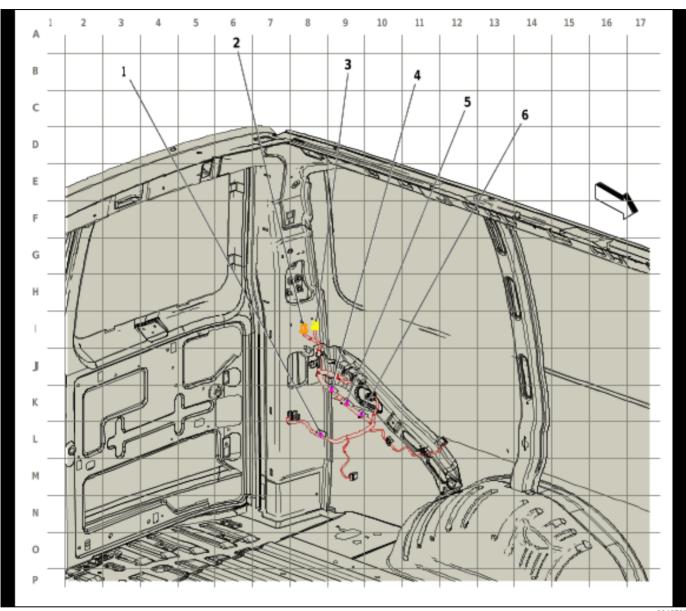


600305

- (1) J376 Body Wiring Harness (Cargo/ Passenger)
- (2) J308 Body Wiring Harness (C69)
- (3) J310 Body Wiring Harness (C69)
- (4) J311 Body Wiring Harness (C69)
- (5) J403 Body Wiring Harness (Cargo/ Passenger)
- (6) X421 Roof Console Wiring Harness to Body Wiring Harness
- (7) J451 Body Wiring Harness
- (8) J450 Body Wiring Harness
- (9) X415 Radio Rear Speaker Wiring Harness to Body Wiring Harness (Passenger/Cargo)

- (10) X420 Tail Lamp Wiring Harness to Body Wiring Harness (Passenger/Cargo)
- (11) X412 Rear Door Door Wiring Harness to Body Wiring Harness (Passenger/Cargo)
- (12) X400 Rear Door Door Wiring Harness to Body Wiring Harness (Passenger/Cargo)
- (13) X403 Rear Door Door Wiring Harness to Body Wiring Harness (UVC)
- (14) J373 Body Wiring Harness (Passenger)
- (15) X324 Airbag Wiring Harness to Body Wiring Harness (ASF)

Harness Routing Views (Auxiliary HVAC Harness Routing - Left Rear Passenger Compartment (C36/C69))

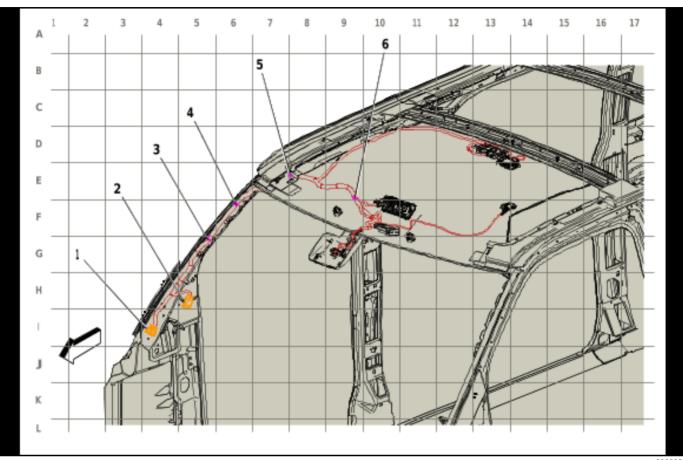


6040703

- (1) J413 Rear HVAC Wiring Harness (C36/C70)
- X409 Auxiliary Heater and Air Conditioning (2)Wiring Harness to Body Wiring Harness (C36/C69)
- (3) X407 Auxiliary Heater and Air Conditioning Wiring Harness to Body Wiring Harness (C36/C69)

- J412 Rear HVAC Wiring Harness (C36/C69) (4)
- J405 Rear HVAC Wiring Harness (C36/C69) (5)
- J411 Rear HVAC Wiring Harness (C69) (6)

Harness Routing Views (Roof Harness Routing - Front)

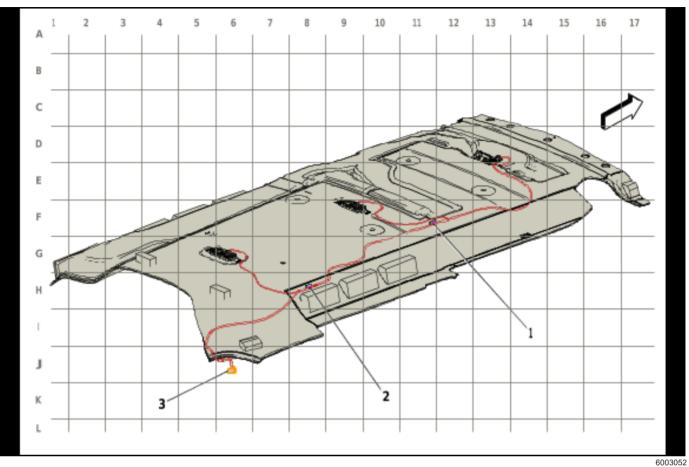


6003051

- (1) X205 Roof Console Wiring Harness to Body Wiring Harness
- (2) X204 Body Wiring Harness to Roof Console Wiring Harness
- (3) J314 Front Headliner Wiring Harness

- (4) J333 Front Headliner Wiring Harness (DH6 without YF7)
- (5) J335 Front Headliner Wiring Harness (U80)
- (6) J307 Front Headliner Wiring Harness (C69 with YF7)

Harness Routing Views (Roof Harness Routing - Rear)

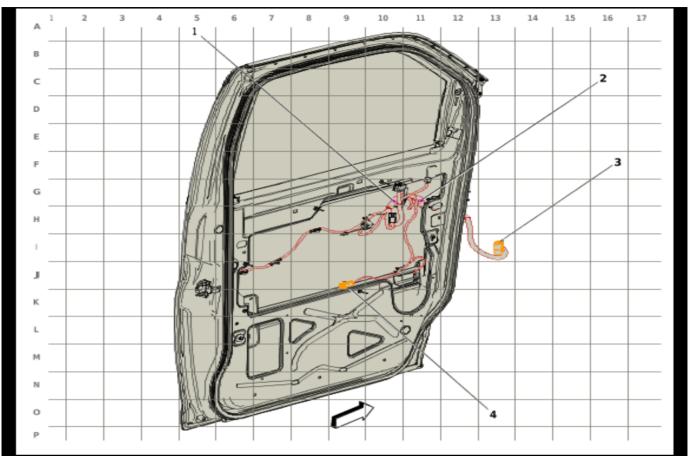


Items

- J330 Rear Headliner Wiring Harness (1) (Passenger)
- J407 Rear Headliner Wiring Harness (Passenger) (2)

X421 Roof Console Wiring Harness to Body Wiring Harness

Harness Routing Views (Door Harness Routing - Driver Door)



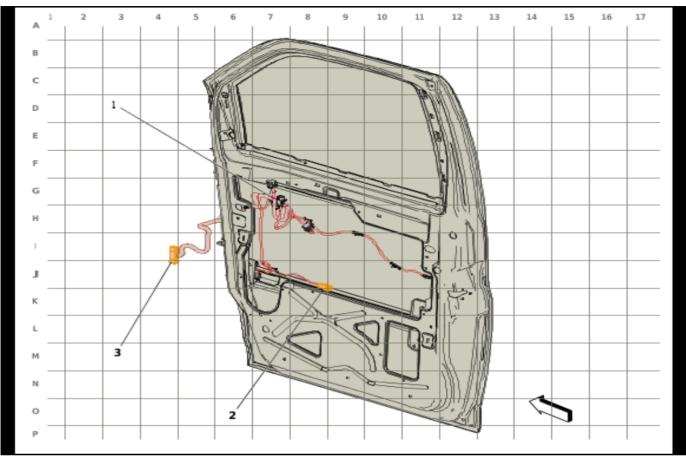
6003053

Items

- J500 Driver Door Wiring Harness (AU3/ (1) DE5/A31)
- J502 Driver Door Wiring Harness (DE5) (2)
- X500 Front Side Door Door Wiring Harness -(3) **Driver to Body Wiring Harness**

X501 Airbag Wiring Harness to Front Side Door Door Wiring Harness - Driver (ASF) (4)

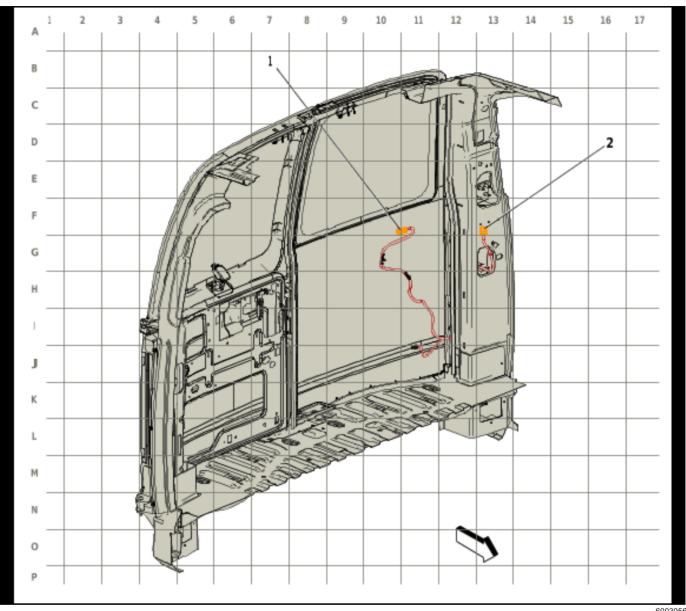
Harness Routing Views (Door Harness Routing - Passenger Door)



6003055

- (1) J600 Passenger Door Wiring Harness (AU3/ DE5/A31)
- (2) X601 Side Impact Sensor Right Front Jumper Wiring Harness to Front Side Door Door Wiring Harness - Pas (ASF)
- (3) X600 Front Side Door Door Wiring Harness -Passenger to Body Wiring Harness

Harness Routing Views (Door Harness Routing - Driver Rear (Passenger or Cargo))

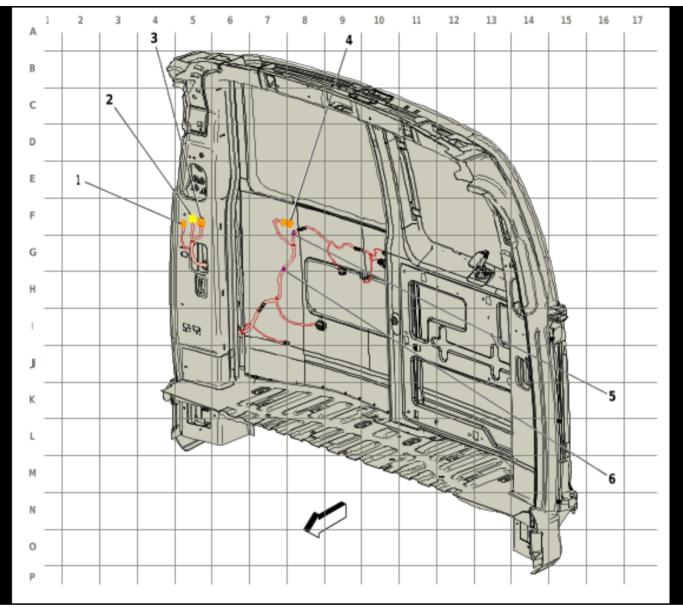


Items

X901 Rear Window Defogger Wiring Harness to Rear Door Door Wiring Harness -(1) Left (C49)

X411 Rear Door Door Wiring Harness - Left to Body Wiring Harness (Passenger/Cargo) (2)

Harness Routing Views (Door Harness Routing - Passenger Rear (Passenger or Cargo))

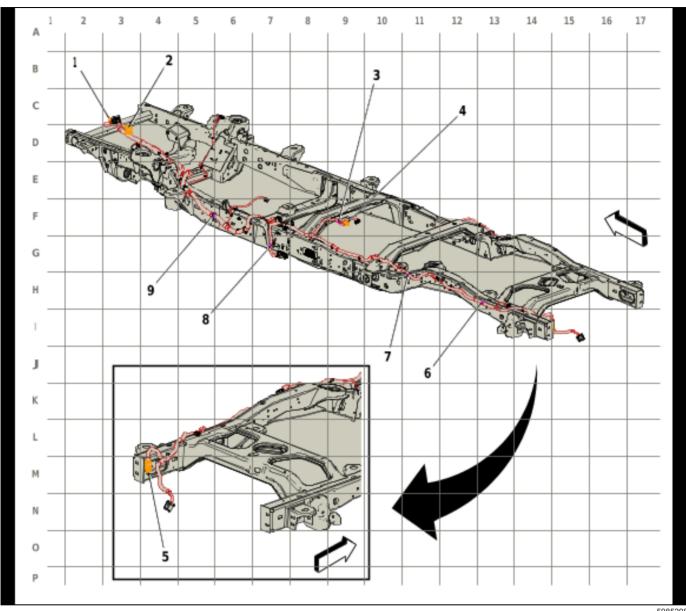


6003057

- (1) X403 Rear Door Door Wiring Harness to Body Wiring Harness (UVC)
- (2) X400 Rear Door Door Wiring Harness to Body Wiring Harness (Passenger/Cargo)
- (3) X412 Rear Door Door Wiring Harness to Body Wiring Harness (Passenger/Cargo)

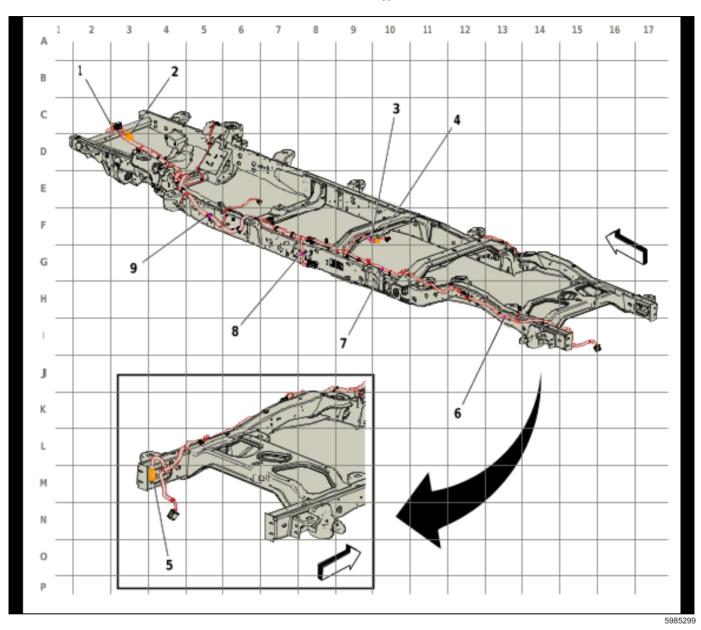
- (4) X902 Rear Window Defogger Wiring Harness to Rear Door Door Wiring Harness (C49)
- (5) J901 Right Rear Cargo Door Wiring Harness (Cargo/Passenger with AU3)
- (6) J902 Right Rear Cargo Door Wiring Harness (Cargo/Passenger with C49)

Harness Routing Views (Chassis Harness Routing - Underbody (Passenger or Cargo with SWB))



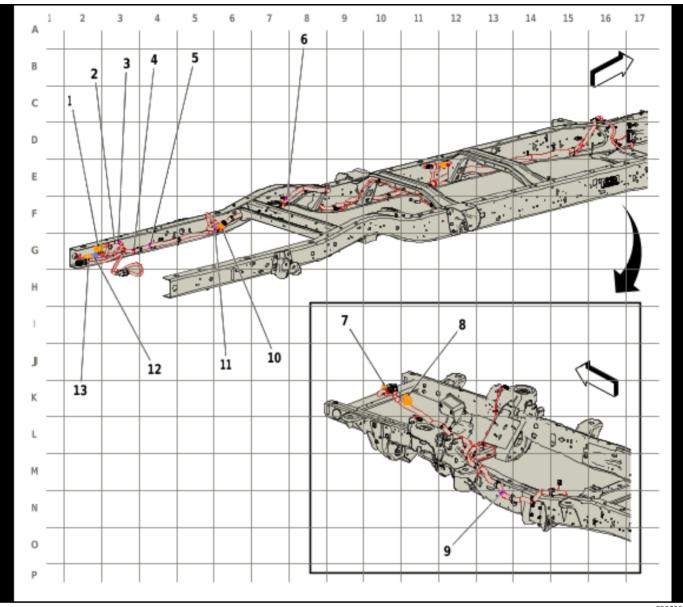
- X185 Instrument Panel Wiring Harness to (1) **Chassis Wiring Harness**
- X101 Engine Wiring Harness to Chassis (2) Wiring Harness
- (3) J432 Chassis Wiring Harness
- (4) X102 Chassis Wiring Harness to Fuel Tank Wiring Harness
- X408 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness (5) (UD7/UFT)
- J404 Chassis Wiring Harness (6)
- J402 Chassis Wiring Harness (7)
- (8) J431 Chassis Wiring Harness
- (9) J315 Chassis Wiring Harness

Harness Routing Views (Chassis Harness Routing - Underbody (Passenger or Cargo with LWB))



- (1) X185 Instrument Panel Wiring Harness to Chassis Wiring Harness
- (2) X101 Engine Wiring Harness to Chassis Wiring Harness
- (3) J432 Chassis Wiring Harness
- (4) X102 Chassis Wiring Harness to Fuel Tank Wiring Harness
- (5) X408 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness (UD7/UFT)
- (6) J404 Chassis Wiring Harness
- (7) J402 Chassis Wiring Harness
- (8) J431 Chassis Wiring Harness
- (9) J315 Chassis Wiring Harness

Harness Routing Views (Chassis Harness Routing - Underbody (Cutaway) (NE7))

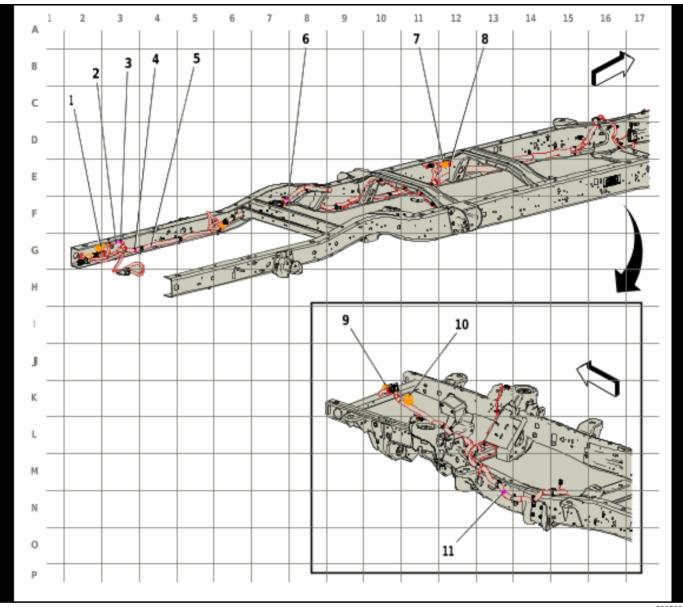


5985300

- (1) X405 Chassis Wiring Harness to Chassis Wiring Harness (Cutaway)
- (2) J387 Chassis Wiring Harness (Cutaway)
- (3) J388 Chassis Wiring Harness (Cutaway)
- (4) J404 Chassis Wiring Harness
- (5) J402 Chassis Wiring Harness
- (6) J431 Chassis Wiring Harness
- (7) X185 Instrument Panel Wiring Harness to Chassis Wiring Harness
- (8) X101 Engine Wiring Harness to Chassis Wiring Harness

- (9) J315 Chassis Wiring Harness
- (10) X102 Chassis Wiring Harness to Fuel Tank Wiring Harness
- (11) J432 Chassis Wiring Harness
- (12) W8 Blunt Cut Trailer Provision (UY7)
- (13) X460 Chassis Wiring Harness to Chassis Wiring Harness (Cutaway with UY7 and NE7)

Harness Routing Views (Chassis Harness Routing - Underbody (Cutaway) (-NE7))

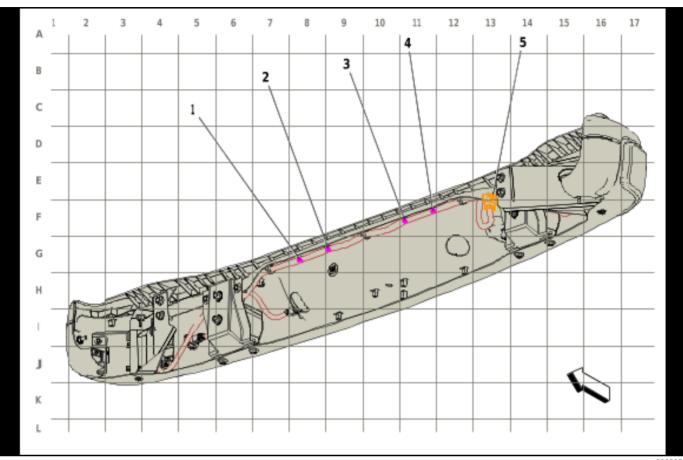


5985301

- (1) X405 Chassis Wiring Harness to Chassis Wiring Harness (Cutaway)
- (2) J387 Chassis Wiring Harness (Cutaway)
- (3) J388 Chassis Wiring Harness (Cutaway)
- (4) J404 Chassis Wiring Harness
- (5) J402 Chassis Wiring Harness
- (6) J431 Chassis Wiring Harness
- (7) X102 Chassis Wiring Harness to Fuel Tank Wiring Harness

- (8) J432 Chassis Wiring Harness
- (9) X185 Instrument Panel Wiring Harness to Chassis Wiring Harness
- (10) X101 Engine Wiring Harness to Chassis Wiring Harness
- (11) J315 Chassis Wiring Harness

Harness Routing Views (Rear Bumper Harness Routing)

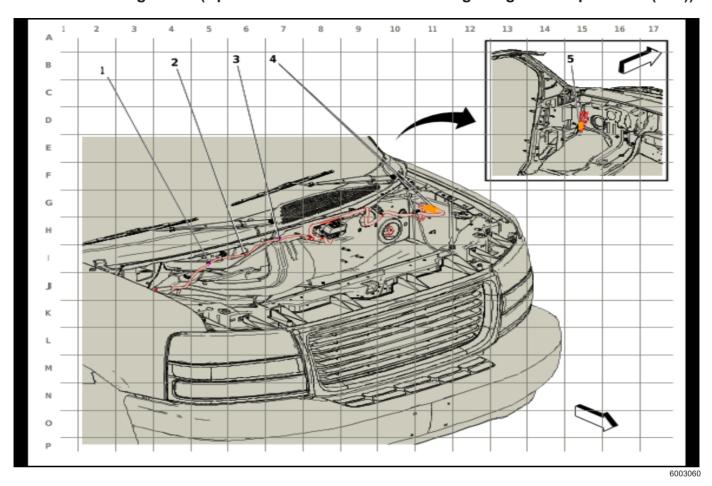


6003058

- J425 Parking Aid Jumper Wiring Harness (UFT) (1)
- J426 Parking Aid Jumper Wiring Harness (UFT) (2)
- J420 Rear Bumper Wiring Harness (UD7) (3)

- (4) J421 Rear Bumper Wiring Harness (UD7)
- X408 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness (5) (UD7/UFT)

Harness Routing Views (Upfitter Provision Harness Routing - Engine Compartment (9L7))



- (1) J104 Fuse Block Jumper Wiring Harness (9L7)
- (2) J105 Fuse Block Jumper Wiring Harness (9L7)
- (3) J106 Fuse Block Jumper Wiring Harness (9L7)

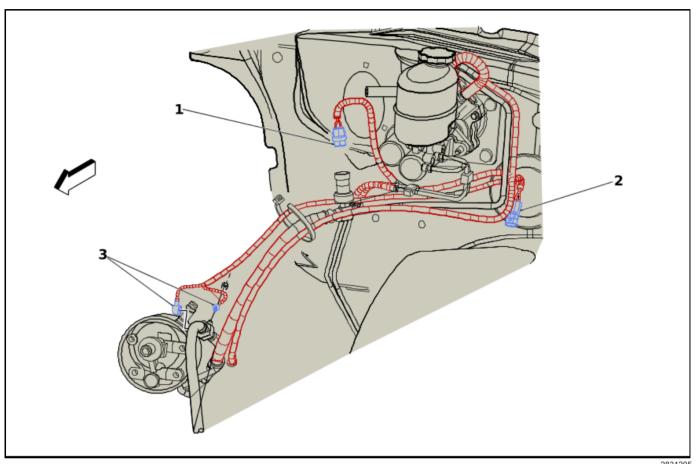
- (4) X190 Accessory Wiring Harness to Accessory Power Fuse Block Rear Wiring Harness Extension Harness
- (5) X291 Accessory Power Fuse Block Rear Wiring Harness Extension Harness to Accessory Power Fuse Block Rear

Component Locator

6-472

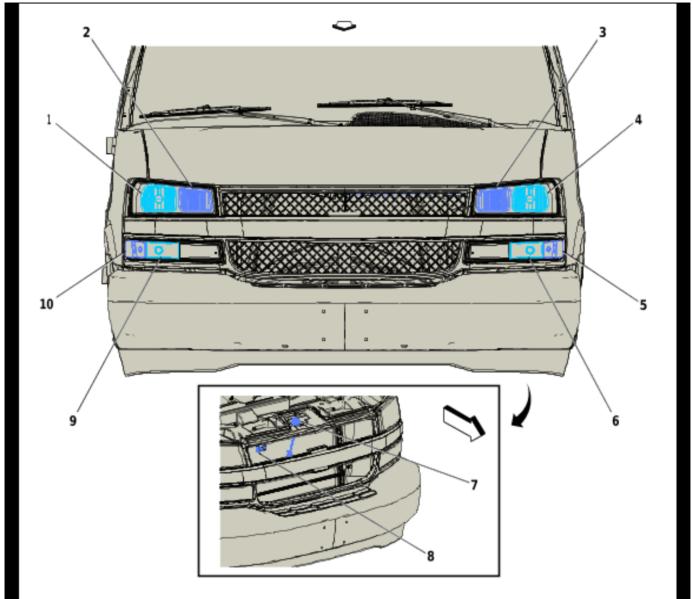
Front of Vehicle/Engine Compartment Component Views

Brake Booster Fluid Alarm Switches (UJ1)



- (1) B19A Brake Booster Fluid Pressure Alarm Switch (UJ1)
- X141 Instrument Panel Wiring Harness to Brake Fluid Level Indicator Wiring Harness (2) (UJ1)
- (3) B133 Brake Booster Fluid Flow Alarm Switch (UJ1)

Front of Vehicle Components

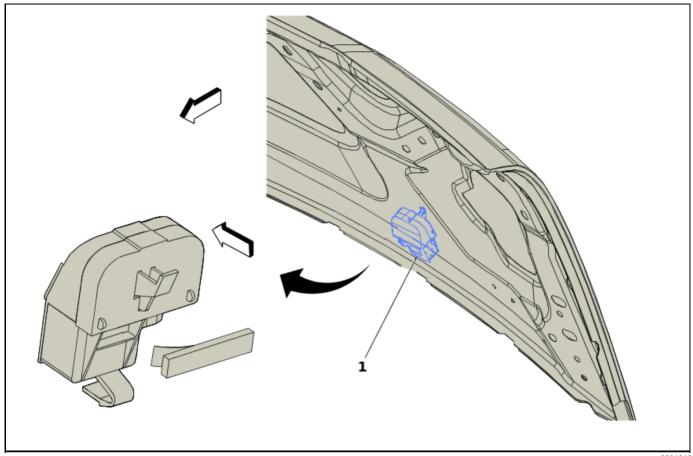


6040670

- (1) E4H Headlamp Right Low Beam
- (2) E4F Headlamp Right High Beam
- (3) E4E Headlamp Left High Beam
- (4) E4G Headlamp Left Low Beam
- (5) E2LF Side Marker Lamp Left Front
- (6) E4N Park/Turn Signal Lamp Left

- (7) B55 Engine Hood Switch (BTV)
- (8) B9 Ambient Air Temperature Sensor
- (9) E4P Park/Turn Signal Lamp Right
- (10) E2RF Side Marker Lamp Right Front

Underside of Hood Components

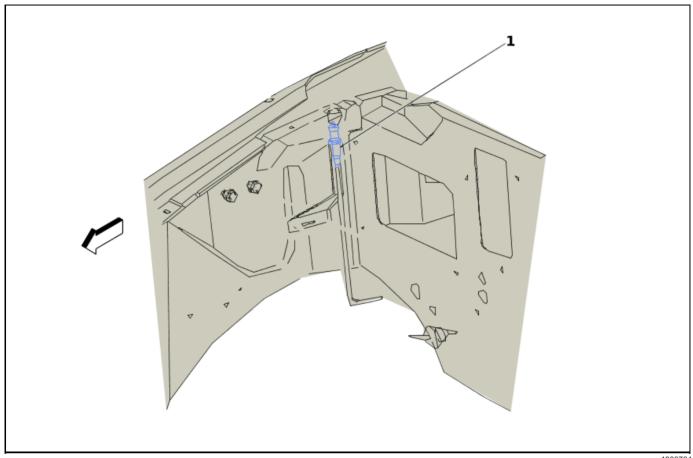


2831210

Items

(1) E22 Underhood Lamp

Right Rear of the Engine Compartment Components

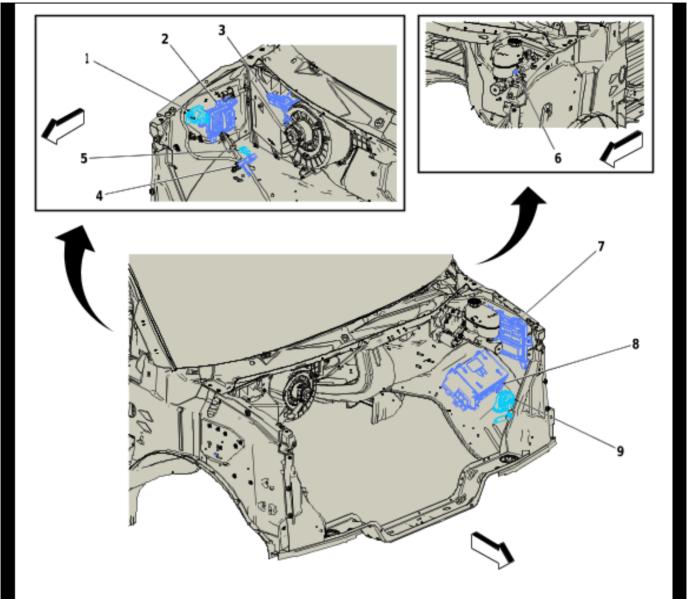


4003764

Items

T4M Radio Antenna (1)

Engine Compartment Components (1 of 2)

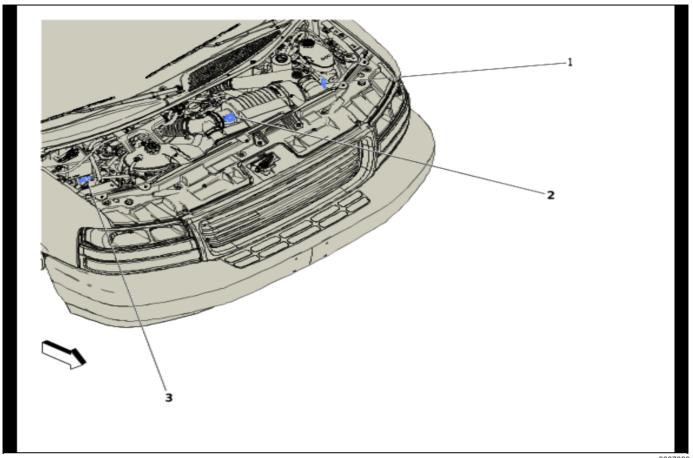


6003003

- (1) KR81 Auxiliary Battery Relay 1
- (2) K71 Transmission Control Module (M5U)
- (3) R3 Blower Motor Resistor
- (4) B18 Battery Current Sensor
- (5) R6A Terminating Resistor High Speed Bus
- (6) B20 Brake Fluid Level Switch

- (7) M75 Windshield Wiper Motor
- (8) K20 Engine Control Module
- (9) X50A Fuse Block Underhood
- (10) P13 Horn Assembly

Engine Compartment Components (2 of 2)

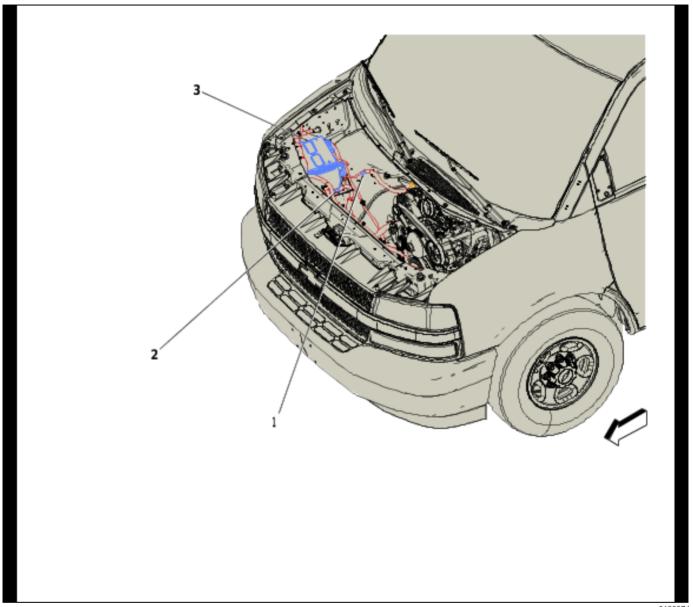


Items

- B1 A/C Refrigerant Pressure Sensor (C60) (1)
- (2) B75C Multifunction Intake Air Sensor

(3) B1B A/C Low Side Pressure Switch (C60)

Engine Compartment Components

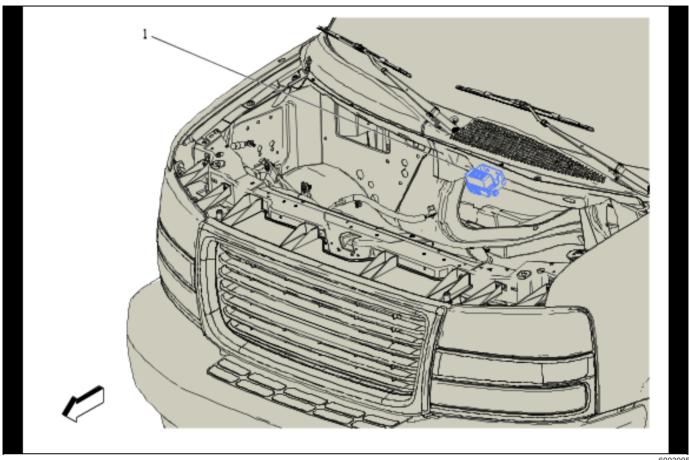


Items

- F104C Fusible Link 3 (1)
- (2) F104B Fusible Link 2

(3) C1 Battery

Engine Compartment Components (9L7)



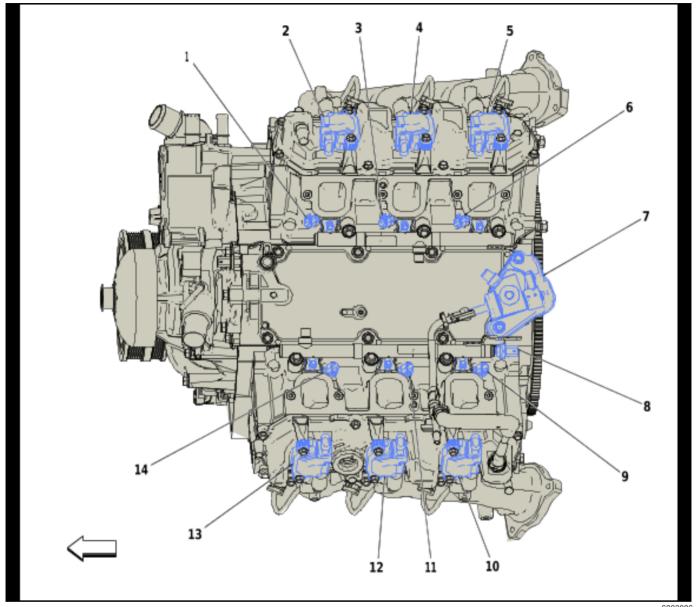
6003005

Items

(1) X50B Fuse Block - Underhood Auxiliary

6-480

Powertrain Component Views Top of the Engine Components (LV1)

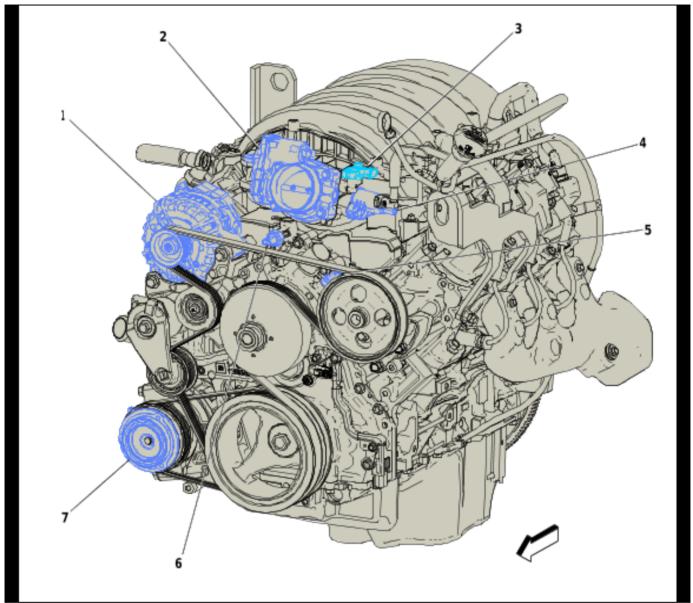


6003006

- (1) Q17B Fuel Injector 2
- (2) T8B Ignition Coil 2
- (3) Q17D Fuel Injector 4
- (4) T8D Ignition Coil 4
- T8F Ignition Coil 6 (5)
- (6) Q17F Fuel Injector 6
- (7) G18 High Pressure Fuel Pump
- (8) B47B Fuel Rail Pressure Sensor

- Q17E Fuel Injector 5 (9)
- (10)T8E Ignition Coil 5
- (11) Q17C Fuel Injector 3
- T8C Ignition Coil 3 (12)
- (13)T8A Ignition Coil 1
- Q17A Fuel Injector 1 (14)

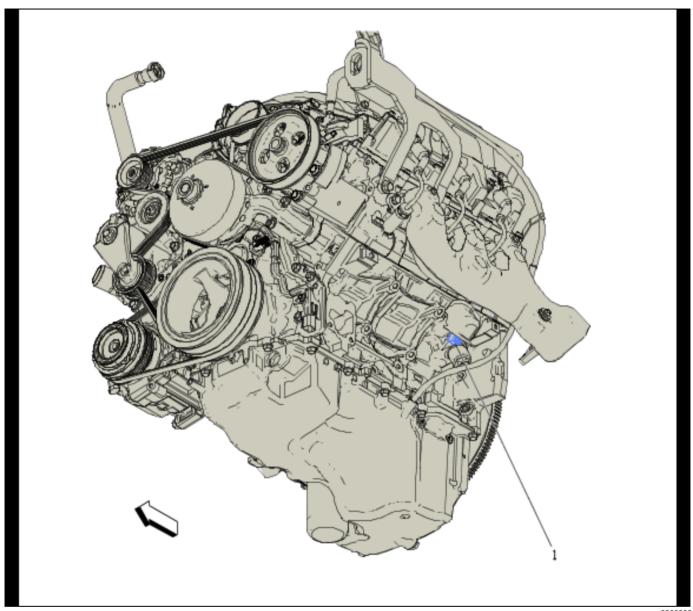
Front of the Engine Components (LV1)



600300

- (1) G13 Generator
- (2) Q38 Throttle Body
- (3) B74 Manifold Absolute Pressure Sensor
- (4) Q12 Evaporative Emission Purge Solenoid Valve
- (5) B34 Engine Coolant Temperature Sensor
- (6) B37B Engine Oil Pressure Sensor
- (7) Q2 A/C Compressor Clutch (C60)

Lower Right Rear of the Engine Components (LV1)

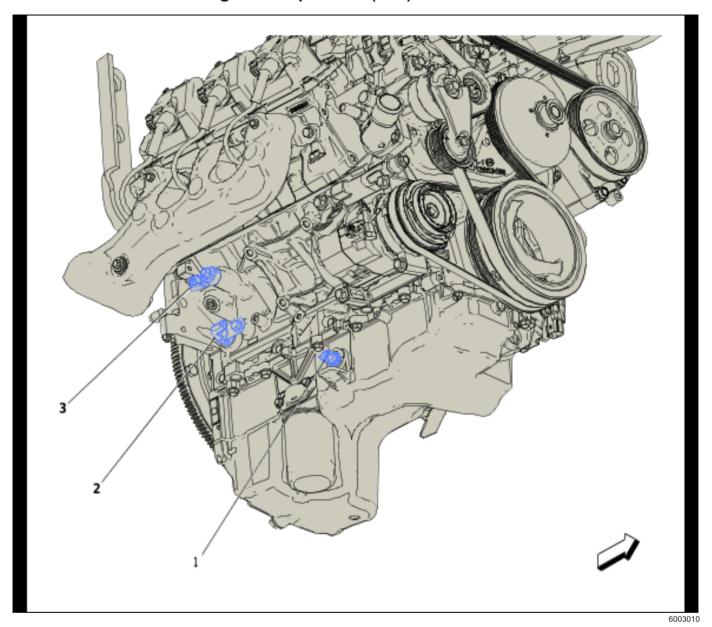


6003008

Items

(1) B68A Knock Sensor 1

Lower Left Rear of the Engine Components (LV1)



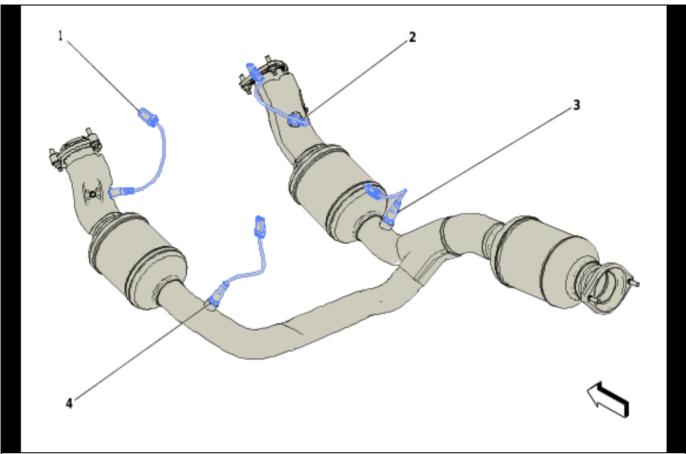
(1) B35 Engine Oil Level Switch

(2) B26 Crankshaft Position Sensor

Items

(3) B68B Knock Sensor 2

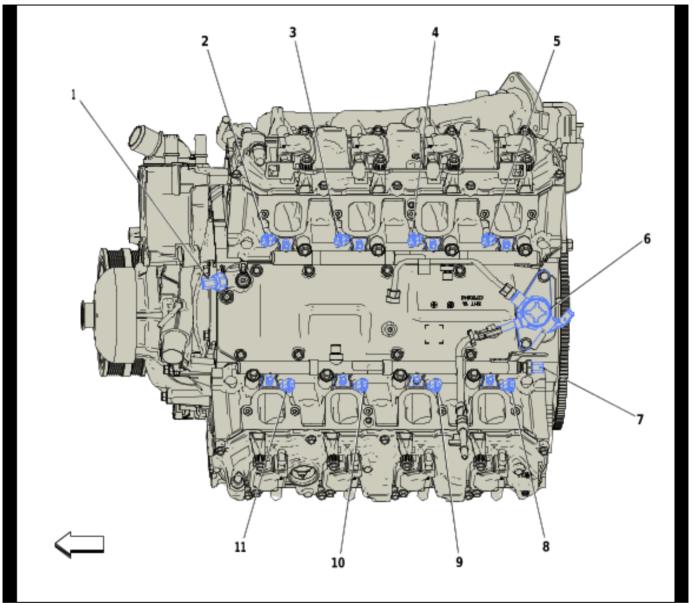
Rear of the Engine Components (LV1)



600301

- (1) B52C Heated Oxygen Sensor Bank 1 Sensor 1
- (2) B52E Heated Oxygen Sensor Bank 2 Sensor 1
- (3) B52F Heated Oxygen Sensor Bank 2 Sensor 2
- (4) B52D Heated Oxygen Sensor Bank 1 Sensor 2

Top of Engine Components (L8T)

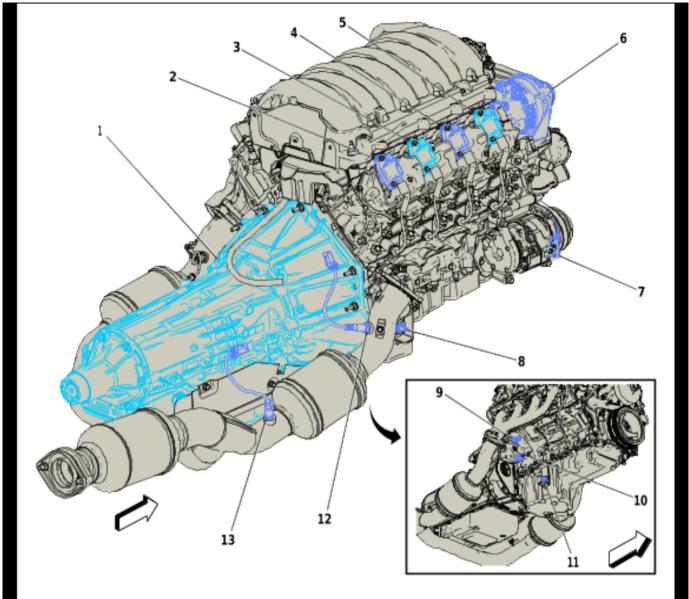


6040675

- (1) B37B Engine Oil Pressure Sensor
- (2) Q17B Fuel Injector 2
- (3) Q17D Fuel Injector 4
- (4) Q17F Fuel Injector 6
- (5) Q17H Fuel Injector 8 (L8T)
- (6) G18 High Pressure Fuel Pump

- (7) B47B Fuel Rail Pressure Sensor
- (8) Q17G Fuel Injector 7 (L8T)
- (9) Q17E Fuel Injector 5
- (10) Q17C Fuel Injector 3
- (11) Q17A Fuel Injector 1

Left Side of the Engine Components (L8T)

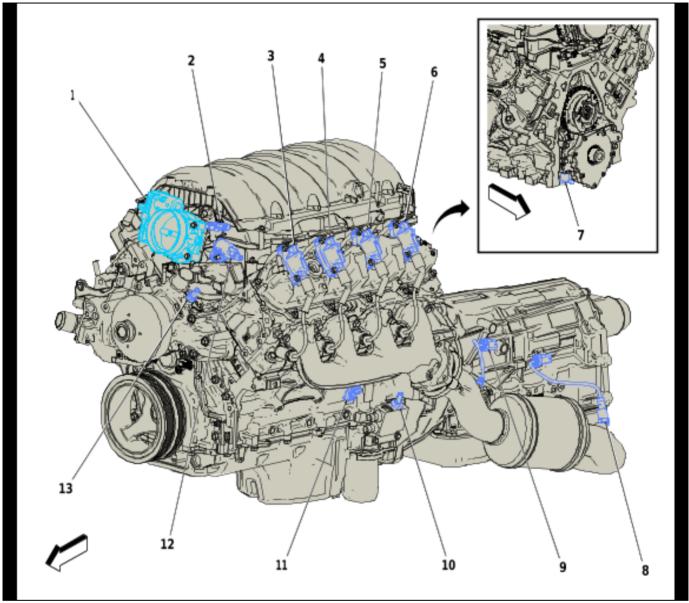


6040676

- T12 Automatic Transmission Assembly (1)
- T8H Ignition Coil 8 (L8T) (2)
- T8F Ignition Coil 6 (3)
- (4) T8D Ignition Coil 4
- (5) T8B Ignition Coil 2
- (6) G13 Generator
- (7) Q2 A/C Compressor Clutch (C60)
- (8) B35 Engine Oil Level Switch

- B68B Knock Sensor 2 (9)
- (10)B26 Crankshaft Position Sensor
- B35 Engine Oil Level Switch (11)
- B52E Heated Oxygen Sensor Bank 2 Sen-(12)
- B52F Heated Oxygen Sensor Bank 2 Sen-(13)sor 2

Right Side of the Engine Components (L8T)

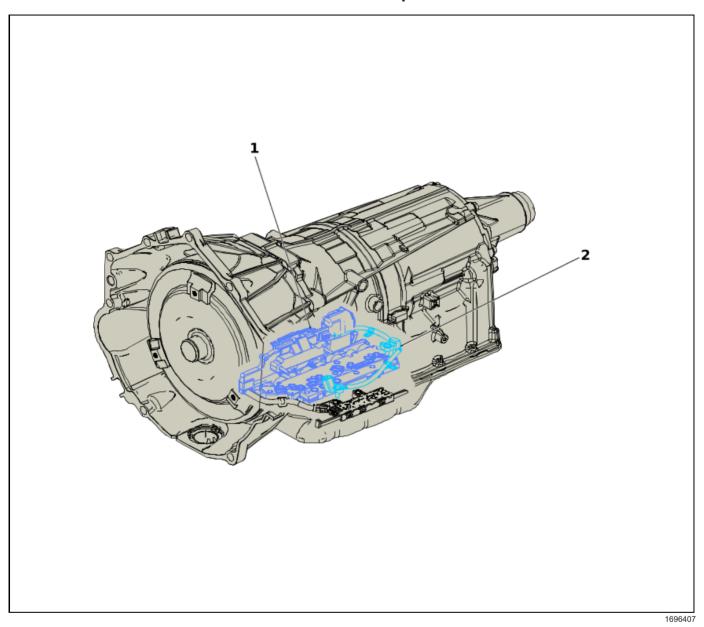


6040678

- (1) Q38 Throttle Body
- (2) B74 Manifold Absolute Pressure Sensor
- (3) T8A Ignition Coil 1
- (4) T8C Ignition Coil 3
- (5) T8E Ignition Coil 5
- (6) T8G Ignition Coil 7 (L8T)
- (7) Q44 Engine Oil Pressure Control Solenoid Valve (L8T)
- (8) B52D Heated Oxygen Sensor Bank 1 Sensor 2

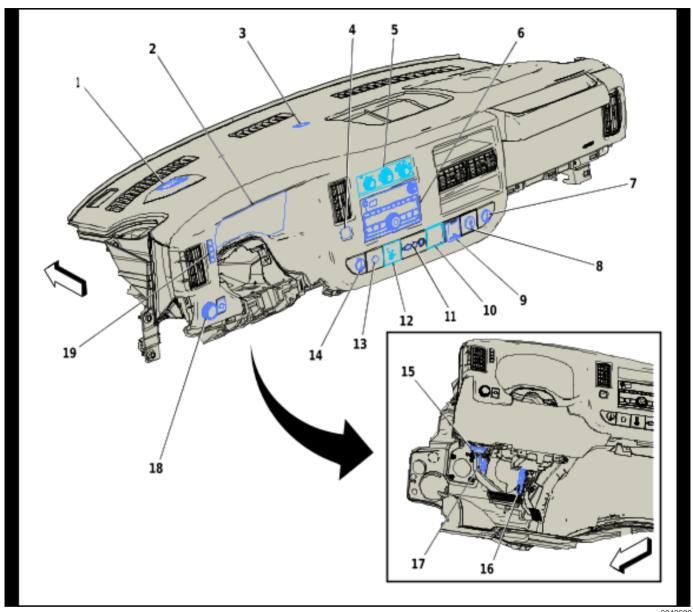
- (9) B52C Heated Oxygen Sensor Bank 1 Sensor 1
- (10) B36 Engine Oil Temperature Sensor (L8T)
- (11) B68A Knock Sensor 1
- (12) Q12 Evaporative Emission Purge Solenoid Valve
- (13) B34 Engine Coolant Temperature Sensor

Automatic Transmission Internal Electrical Components



- (1) Q8 Control Solenoid Valve Assembly
- (2) B14A Transmission Output Shaft Speed Sensor

Instrument Panel/Center Console Component Views Instrument Panel Components (1 of 2)

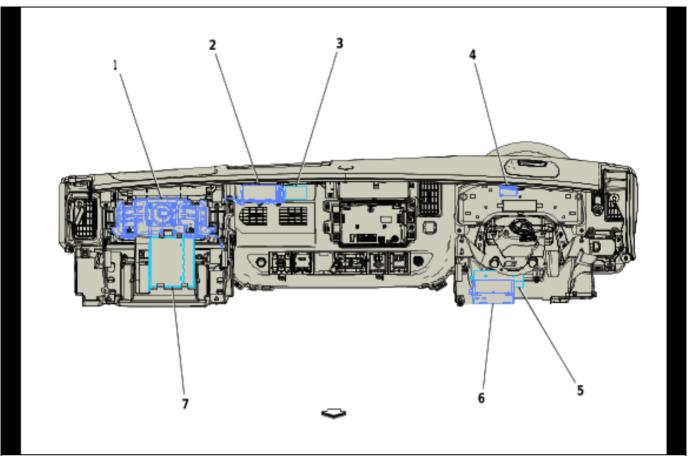


6040680

- P43 Collision Alert Indicators (UFL) (1)
- (2) P16 Instrument Cluster
- (3) B10 Ambient Light Sensor
- (4) S74 Tow/Haul Mode Switch (MYD)
- (5)S34 HVAC Controls Switch Assembly
- (6)A11 Radio
- (7) X80B Accessory Power Receptacle - Center
- (8)X92 USB Receptacle (USR)
- X81 Accessory Power Receptacle 110V AC (9)(KI4)
- (10)S155 Lane Departure Warning Switch (UFL)

- S51 Telematics Button Assembly (UE1) (11)
- S40 Passenger Air Bag Disable Switch (12)(C99)
- (13)X84 Data Link Connector
- X80A Accessory Power Receptacle Center (14)Console 1
- X84 Data Link Connector (15)
- B107 Accelerator Pedal Position Sensor (16)
- **B22 Brake Pedal Position Sensor** (17)
- (18)S30 Headlamp Switch
- S16 Driver Information Center Switch (19)

Instrument Panel Components (2 of 2)

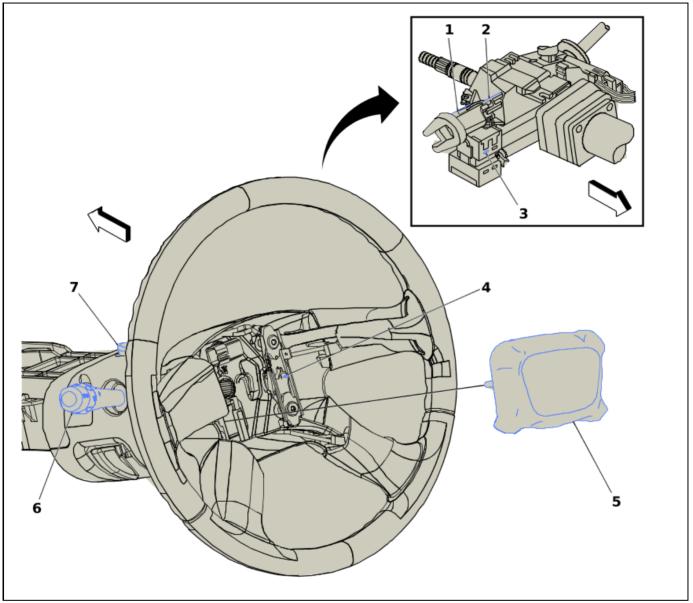


6040682

- (1) F101 Passenger Instrument Panel Air Bag
- (2) T1 Accessory DC/AC Power Inverter Module (KI4)
- (3) K182 Parking Assist Control Module (UD7)
- (4) K77 Remote Control Door Lock Receiver (ATG/UJM)

- (5) A12 Digital Radio Receiver Control Module (U2K)
- (6) K73 Telematics Communication Interface Control Module (UE1)
- (7) K9 Body Control Module

Steering Column Components (1 of 2)

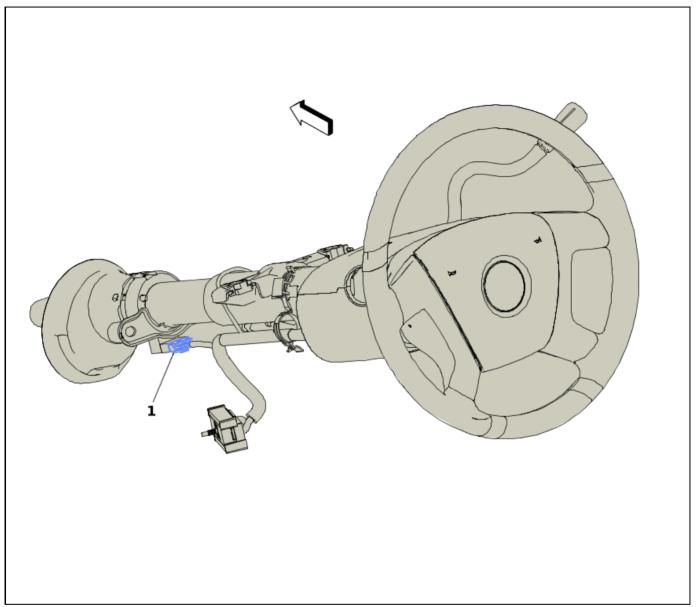


2831279

- (1) K64 Content Theft Deterrent Control Module
- (2) M7 Transmission Shift Lock Control Solenoid Actuator
- (3) S39 Ignition Switch
- (4) S33 Horn Switch

- (5) F107 Steering Wheel Air Bag
- (6) S78 Turn Signal/Multifunction Switch
- (7) S26 Hazard Warning Switch

Steering Column Components (2 of 2)

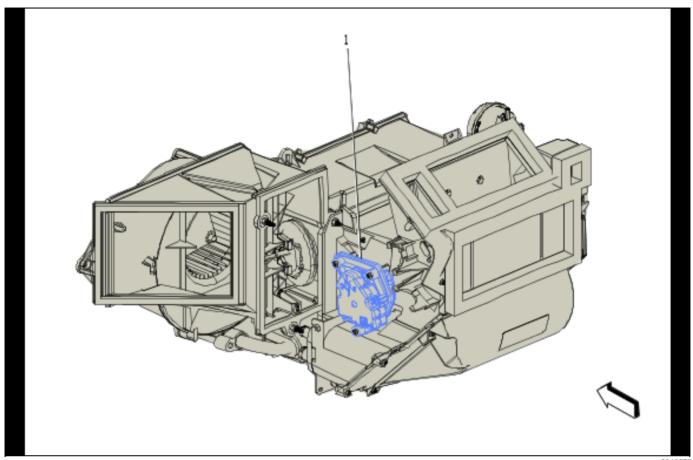


4004007

Items

(1) B99 Steering Wheel Angle Sensor

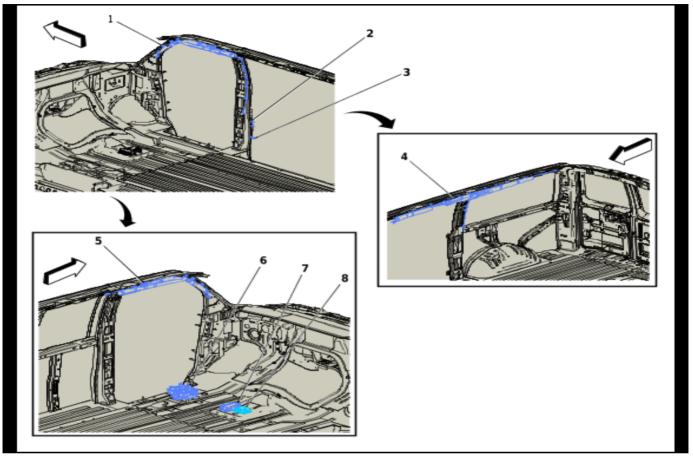
HVAC Case Components



Items

(1) M6 Air Temperature Door Actuator

Passenger Compartment/Roof Component Views Passenger Compartment Components

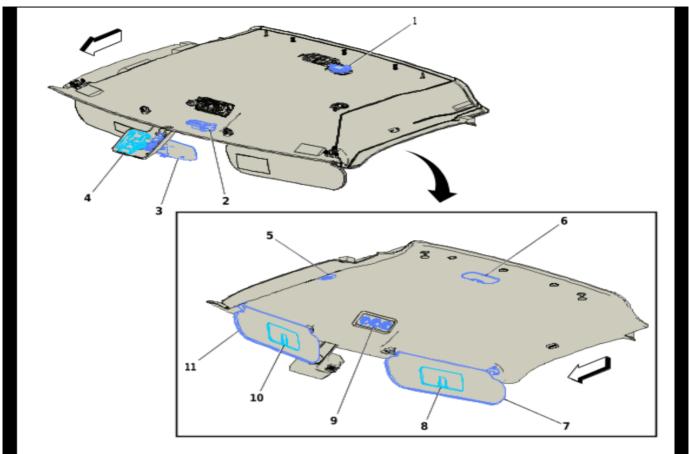


6003018

- (1) F105RF Roof Rail Air Bag Right Front (ASF)
- (2) X87RB Sliding Door Jamb Contact Plate -Right Body (AU3 with E24/YA2)
- (3) B28F Door Ajar Switch Right Sliding (Cargo/Passenger)
- (4) F105RR Roof Rail Air Bag Right Rear (ASF)

- (5) F105LF Roof Rail Air Bag Left Front (ASF)
- (6) X52A Fuse Block Passenger Compartment
- (7) K36 Inflatable Restraint Sensing and Diagnostic Module
- (8) B176 Multi-axis Acceleration Sensor Module

Headliner Components - Front

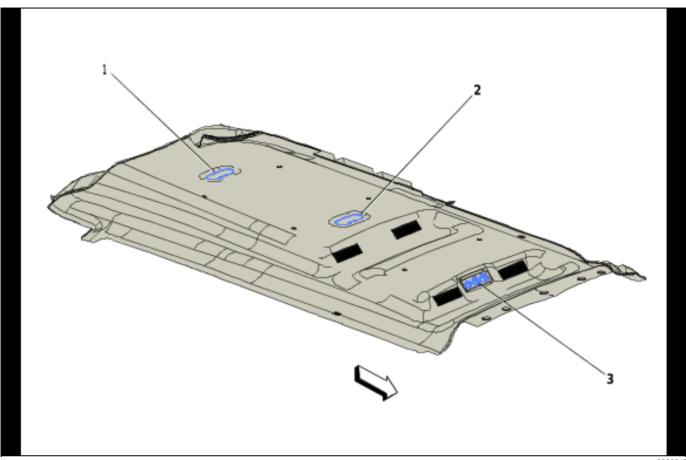


6003016

- (1) K18 Compass Module (U80)
- (2) K33A HVAC Control Module Auxiliary
- (3) A10 Inside Rearview Mirror
- (4) B174W Frontview Camera Windshield (UFL)
- (5) B24 Mobile Telephone Microphone (UE1)
- (6) E37F Dome/Reading Lamps Front (Without YF7)

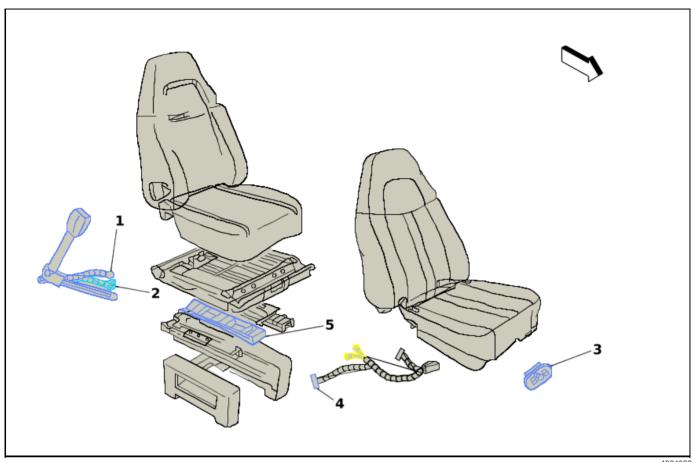
- (7) A3R Sunshade Right (DH6)
- (8) E31R Sunshade Mirror Lamp Right (DH6)
- (9) S34F HVAC Controls Switch Assembly -Auxiliary Front (C36/C69)
- (10) E31L Sunshade Mirror Lamp Left (DH6)
- (11) A3L Sunshade Left (DH6)

Headliner Components - Rear



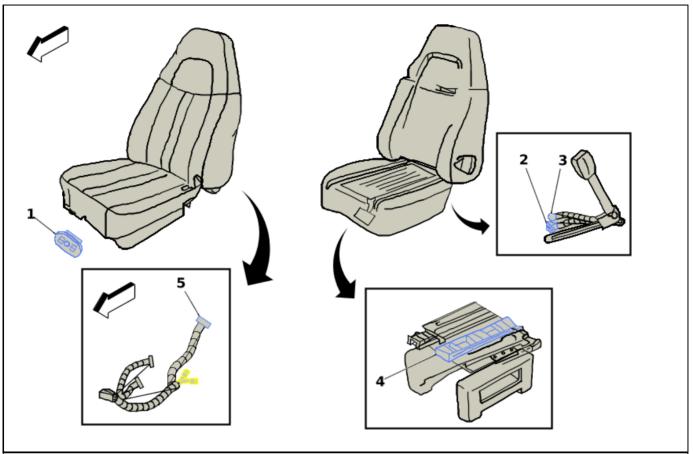
- E37R Dome/Reading Lamps Rear (Pas-(1)
- (2) E37M Dome/Reading Lamps - Middle (Passenger)
- S34R HVAC Controls Switch Assembly Auxiliary Rear (C36/C69 with Rear HVAC Controls) (3)

Driver Seat Components



- (1) B153D Seat Belt Buckle - Driver
- (2) F109D Seat Belt Buckle Pretensioner - Driv-
- (3) S64D Seat Adjuster Switch - Driver (AG1)
- X307 Body Wiring Harness to Seat Wiring Harness Driver (4)
- (5) M49D Seat Motor Assembly - Driver (AG1)

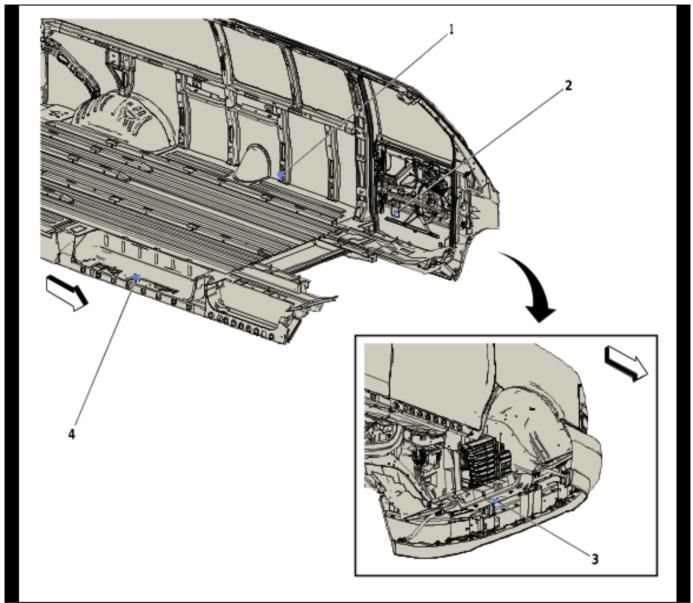
Passenger Seat Components



4656488

- (1) S64P Seat Adjuster Switch Passenger (AG2)
- (2) F109P Seat Belt Buckle Pretensioner Passenger (AK5)
- (3) B153P Seat Belt Buckle Passenger (AK5)
- (4) M49P Seat Motor Assembly Passenger (AG2)
- (5) X306 Body Wiring Harness to Seat Wiring Harness Passenger

Airbag Impact Sensor Components (E24)



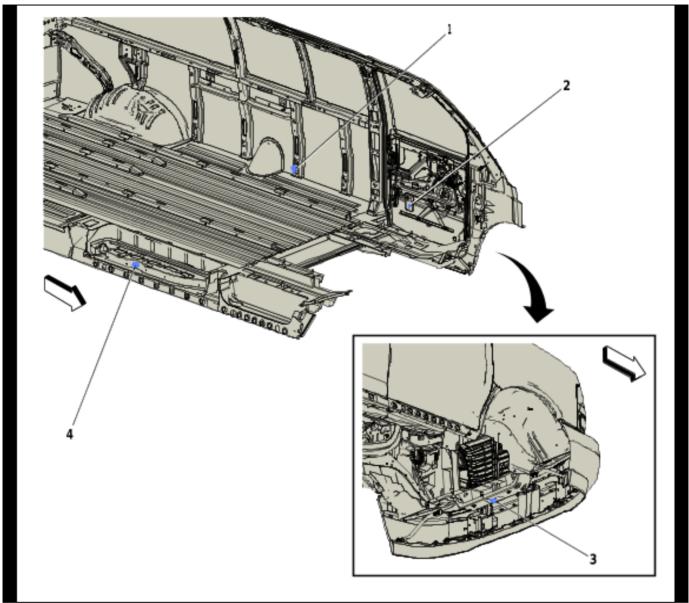
6003434

Items

- (1) B63LR Side Impact Sensor Left Rear (ASF)
- (2) B63LF Side Impact Sensor Left Front (ASF)
- (3) B59 Front Impact Sensor

(4) B63RR Side Impact Sensor - Right Rear (ASF)

Airbag Impact Sensor Components (YA2)



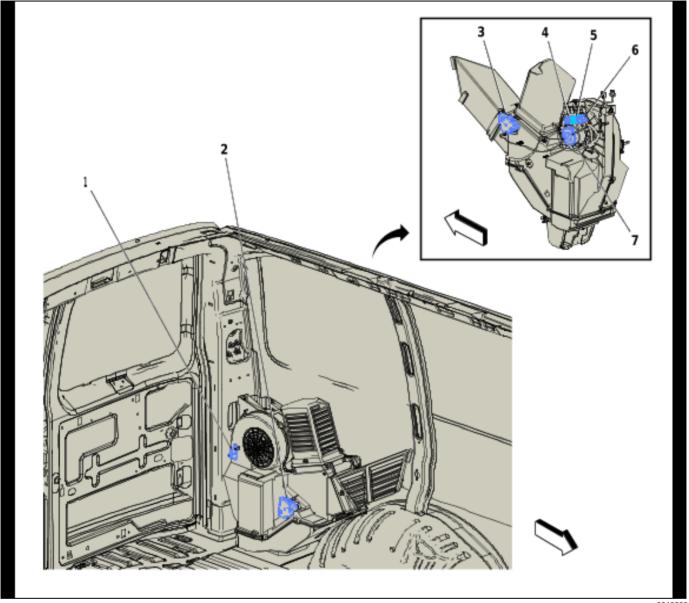
6003434

Items

- (1) B63LR Side Impact Sensor Left Rear (ASF)
- (2) B63LF Side Impact Sensor Left Front (ASF)
- (3) B59 Front Impact Sensor

(4) B63RR Side Impact Sensor - Right Rear (ASF)

Auxiliary HVAC Components (C36/C69)

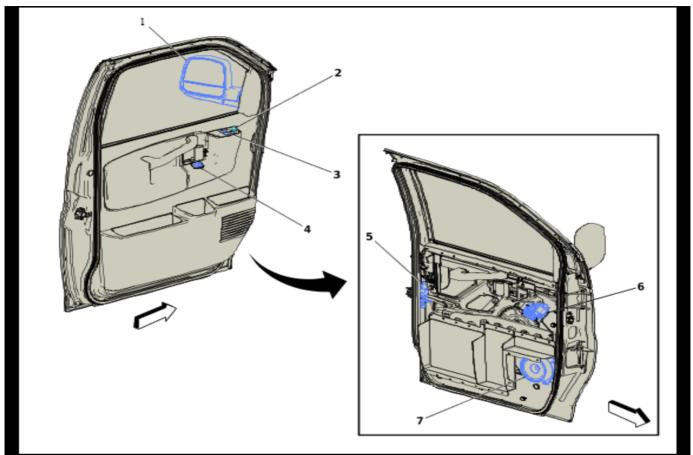


- R3B Blower Motor Resistor Auxiliary (C36/ (1) C69)
- (2) M6B Air Temperature Door Actuator - Auxiliary (C69)
- M37B Mode Door Actuator Auxiliary (C69) (3)
- (4) KR32B Blower Motor High Speed Relay -Auxiliary

- KR32D Blower Motor Medium Speed Relay -(5) Auxiliary
- (6) KR32C Blower Motor Low Speed Relay -Auxiliary
- (7) M6B Air Temperature Door Actuator - Auxiliary (C69)

6-502

Door Component Views Driver Door Components

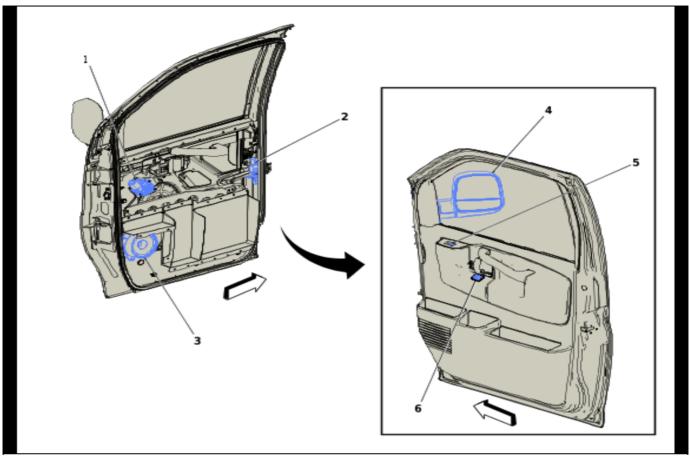


6003019

- (1) A9A Outside Rearview Mirror Driver
- (2) S52 Outside Rearview Mirror Switch (DE5)
- (3) S79D Window Switch Driver (A31)
- (4) S13D Door Lock Switch Driver (AU3)

- (5) A23D Door Latch Assembly Driver
- (6) M74D Window Motor Driver (A31)
- (7) P19AG Speaker Left Front Door

Front Passenger Door Components

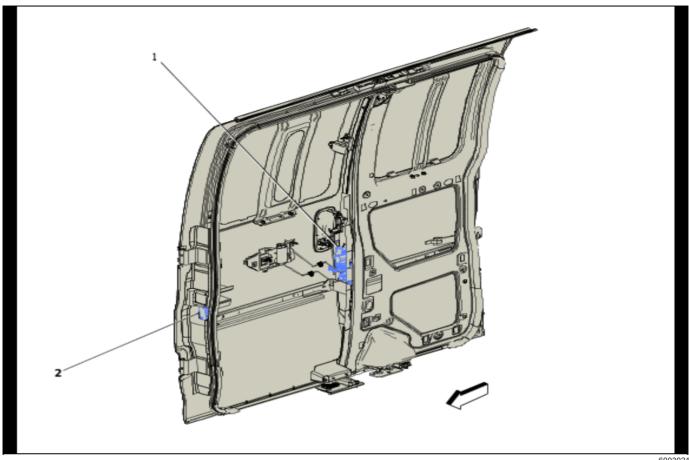


6003020

- (1) M74P Window Motor Passenger (A31)
- (2) A23P Door Latch Assembly Passenger
- (3) P19AH Speaker Right Front Door
- (4) A9B Outside Rearview Mirror Passenger

- (5) S79P Window Switch Passenger (A31)
- (6) S13P Door Lock Switch Passenger (AU3)

Right Side Hinged Door Components (E24)



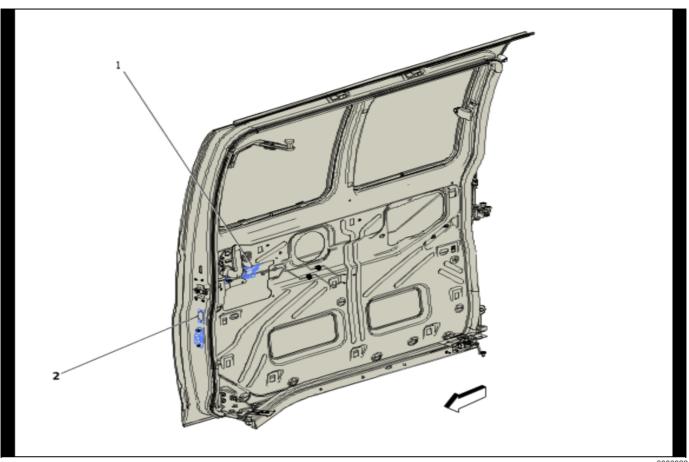
6003021

Items

M14RR Door Lock Actuator - Right Rear (1) (AU3)

X87RB Sliding Door Jamb Contact Plate - Right Body (AU3 with E24/YA2) (2)

Right Side Sliding Door Components (YA2)



6003022

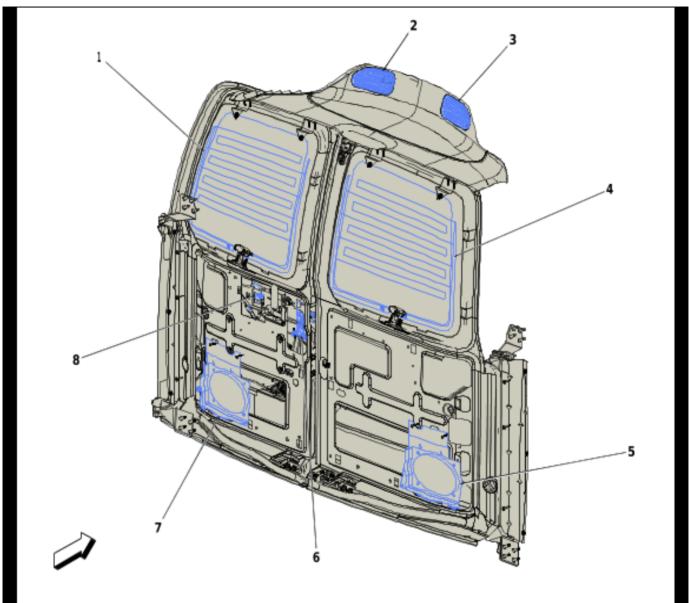
Items

(1) M14RR Door Lock Actuator - Right Rear (AU3)

(2) X87RB Sliding Door Jamb Contact Plate -Right Body (AU3 with E24/YA2)

6-506

Rear Door Components (Passenger or Cargo)

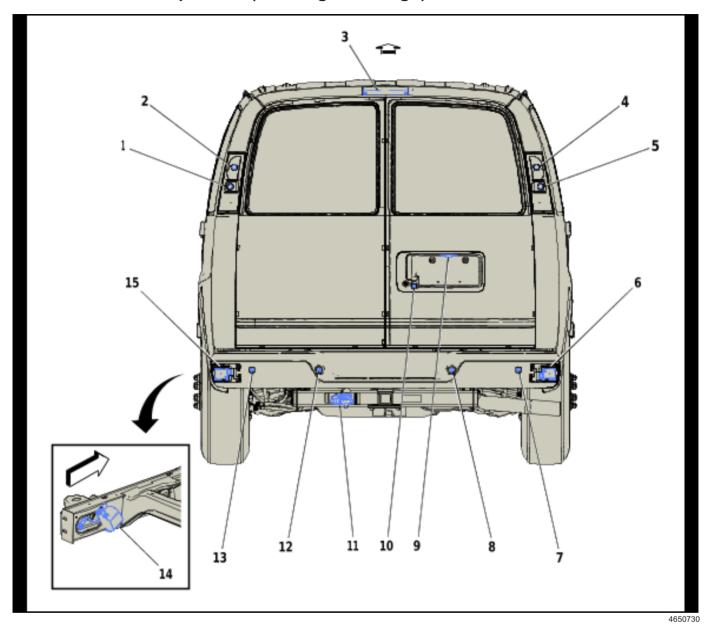


600302

- (1) E18R Rear Defogger Grid Right (C49)
- (2) P19RR Speaker Right Rear Roof (Cargo/ Passenger)
- (3) P19LR Speaker Left Rear Roof (Cargo/ Passenger)
- (4) E18L Rear Defogger Grid Left (C49)
- (5) P19F Speaker Left Rear Cargo Door (US8)

- (6) M13 Door Latch Assembly Rear Cargo (Passenger/Cargo)
- (7) P19T Speaker Right Rear Cargo Door (US8)
- (8) S13A Door Lock Switch Rear Cargo (Passenger/Cargo with AU3)

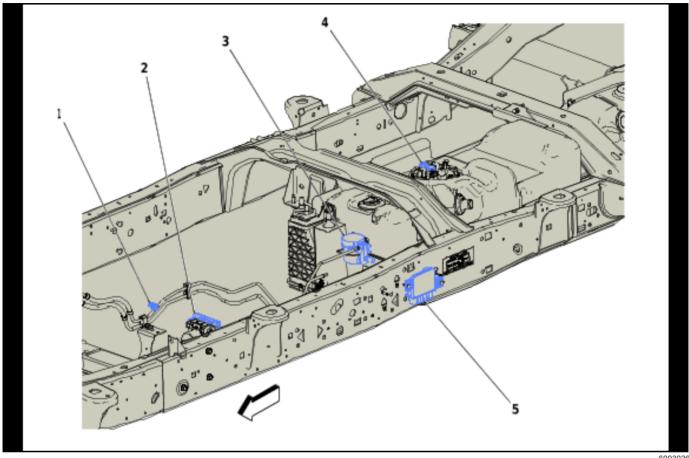
Luggage Compartment/Rear of Vehicle Component Views Rear of Vehicle Components (Passenger or Cargo)



- (1) E5A Backup Lamp Left
- (2) E5S Tail/Stop and Turn Signal Lamp Left (Passenger/Cargo)
- (3) E6 Center High Mounted Stop Lamp (Passenger/Cargo)
- (4) E5T Tail/Stop and Turn Signal Lamp Right (Passenger/Cargo)
- (5) E5B Backup Lamp Right
- (6) B218R Side Object Sensor Module Right (UFT)
- (7) B306H Parking Assist Sensor Rear Right Outer (UD7)
- (8) B306G Parking Assist Sensor Rear Right Middle (UD7)

- (9) E7 License Plate Lamp (Passenger/Cargo)
- (10) B87 Rearview Camera (UVC)
- (11) X88 Trailer Connector (UY7)
- (12) B306F Parking Assist Sensor Rear Left Middle (UD7)
- (13) B306E Parking Assist Sensor Rear Left Outer (UD7)
- (14) P3 Backup Alarm (8S3)
- (15) B218L Side Object Sensor Module Left (UFT)

Wheels/Vehicle Underbody Component Views Frame and Underbody Components (Without NE7)

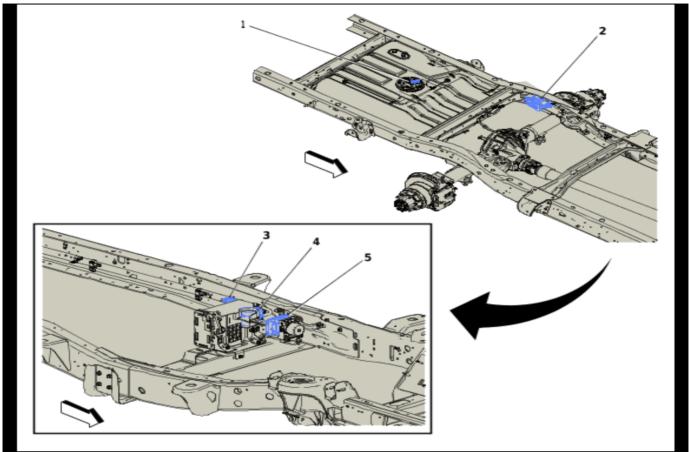


6003026

- (1) B47 Fuel Pressure Sensor
- (2) K17 Electronic Brake Control Module
- (3) Q13 Evaporative Emission Vent Solenoid Valve

- (4) B150 Fuel Tank Pressure Sensor
- (5) K111 Fuel Pump Driver Control Module

Frame and Underbody Components (With NE7)

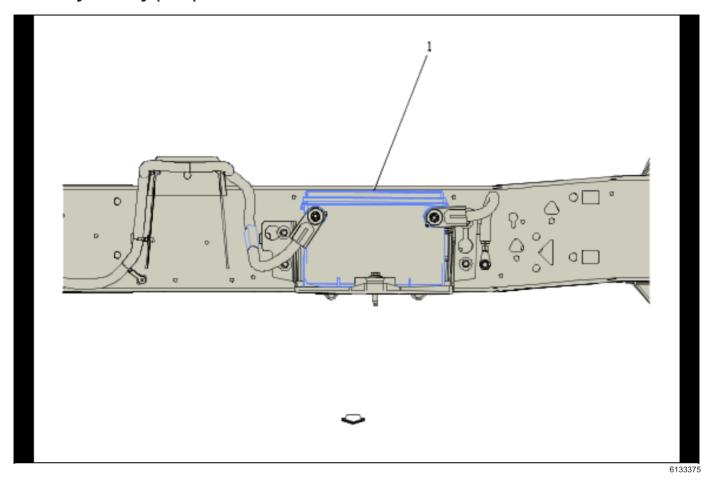


6003028

- (1) B150 Fuel Tank Pressure Sensor
- (2) K111 Fuel Pump Driver Control Module
- (3) B47 Fuel Pressure Sensor

- (4) Q13 Evaporative Emission Vent Solenoid Valve
- (5) K17 Electronic Brake Control Module

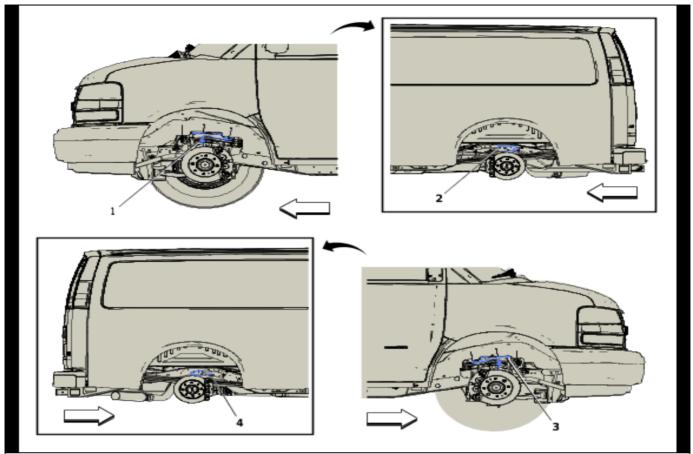
Auxiliary Battery (TP3)



Items

(1) C1B Battery - Auxiliary (TP3)

Wheel Speed Sensors (Cargo/Passenger)



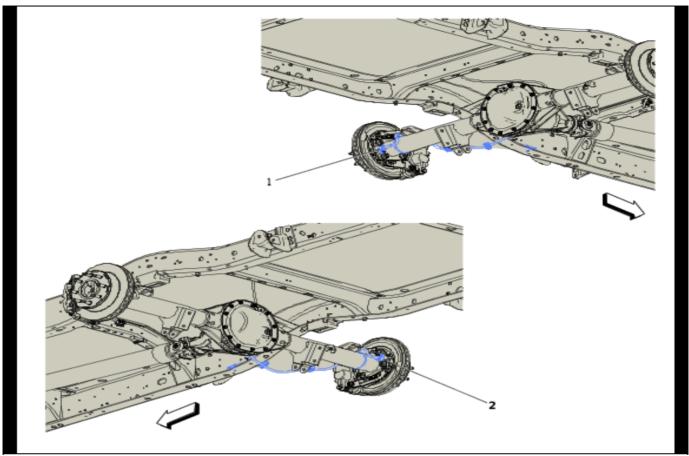
6003029

Items

- (1) B5LF Wheel Speed Sensor Left Front
- (2) B5LR Wheel Speed Sensor Left Rear
- (3) B5RF Wheel Speed Sensor Right Front

(4) B5RR Wheel Speed Sensor - Right Rear

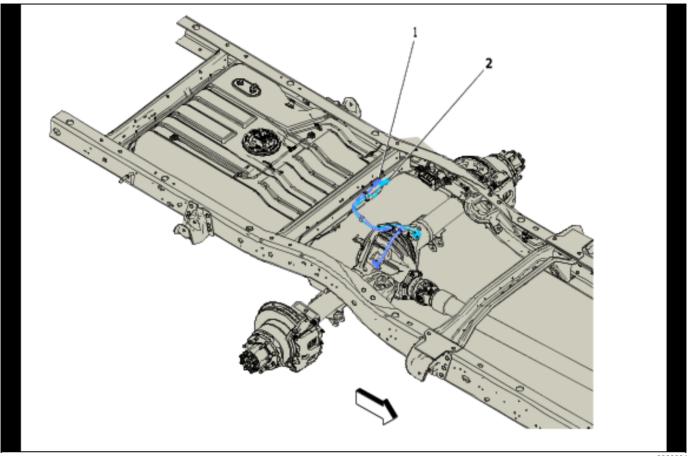
Wheel Speed Sensors (Cutaway with SRW)



6003030

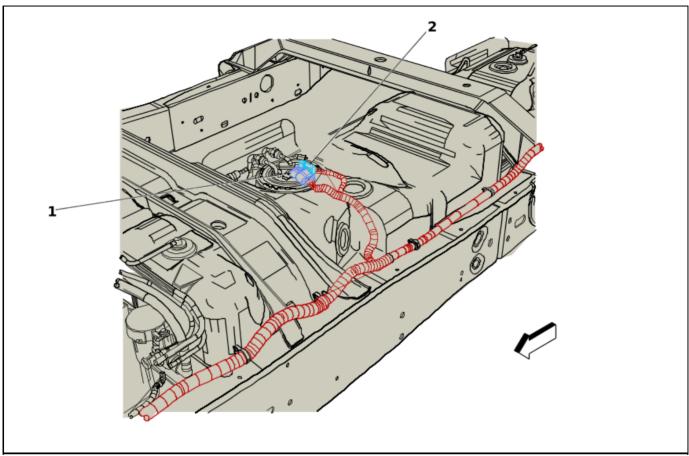
- (1) B5LR Wheel Speed Sensor Left Rear
- (2) B5RR Wheel Speed Sensor Right Rear

Wheel Speed Sensors (Cutaway with DRW)



- (1) B5RR Wheel Speed Sensor - Right Rear
- (2) B5LR Wheel Speed Sensor - Left Rear

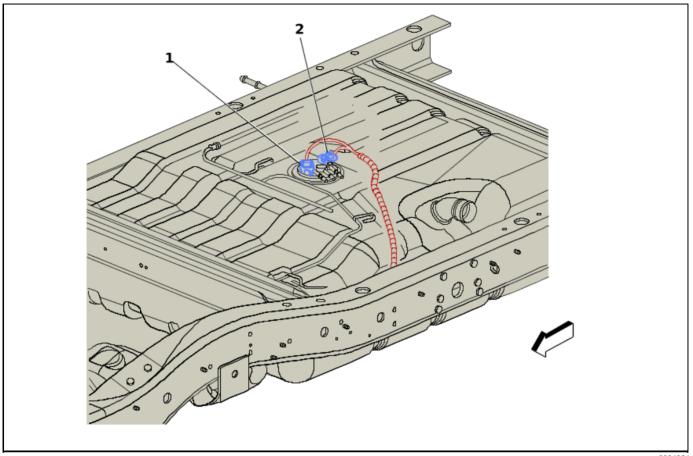
Fuel Tank Components (Without NE7)



2831324

- (1) A7 Fuel Pump and Level Sensor Assembly
- (2) B150 Fuel Tank Pressure Sensor

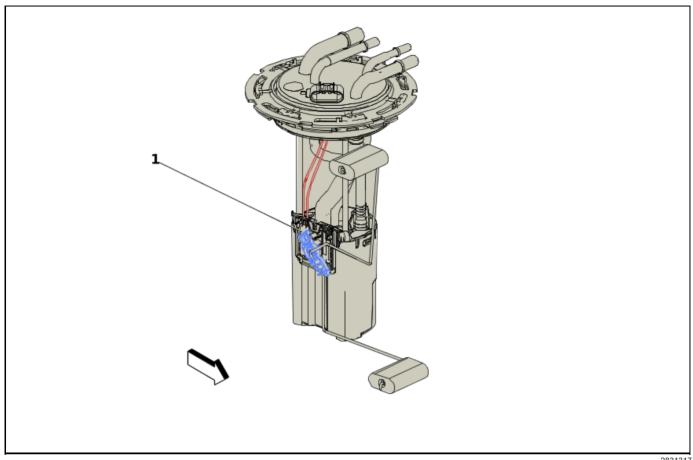
Fuel Tank Components (NE7)



2831321

- (1) B150 Fuel Tank Pressure Sensor
- (2) A7 Fuel Pump and Level Sensor Assembly

Inside of Fuel Tank Components

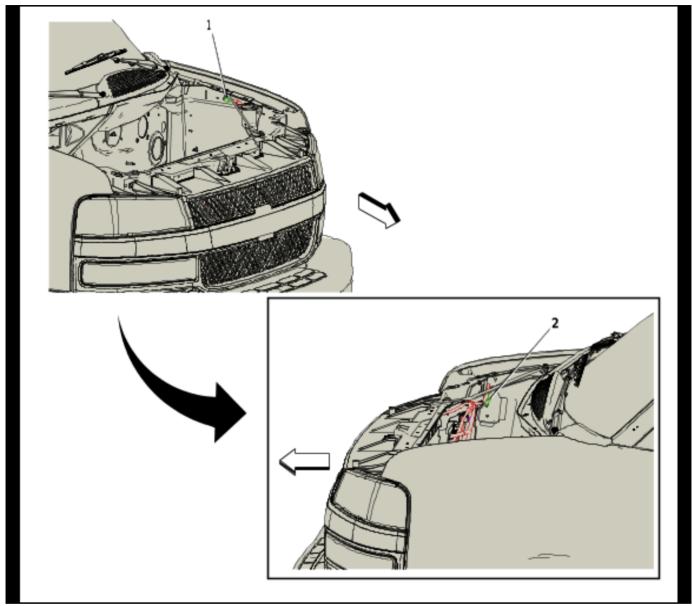


2831317

Items

(1) B46 Fuel Level Sensor

Ground Views G100 and G101

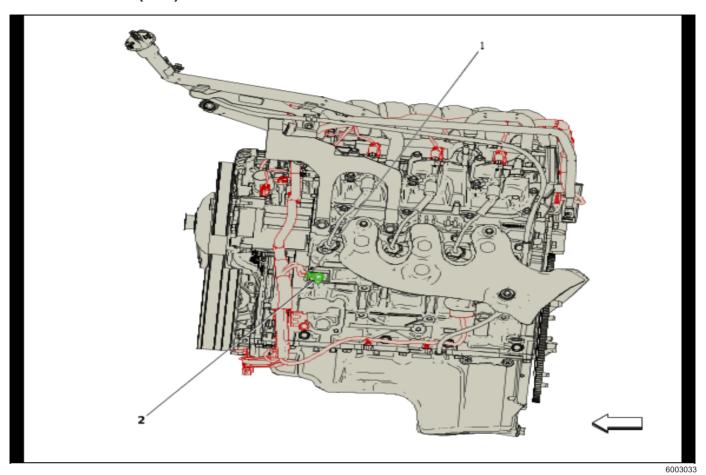


6040687

- (1) G100 Forward Lamp Wiring Harness
- (2) G101 Forward Lamp Wiring Harness

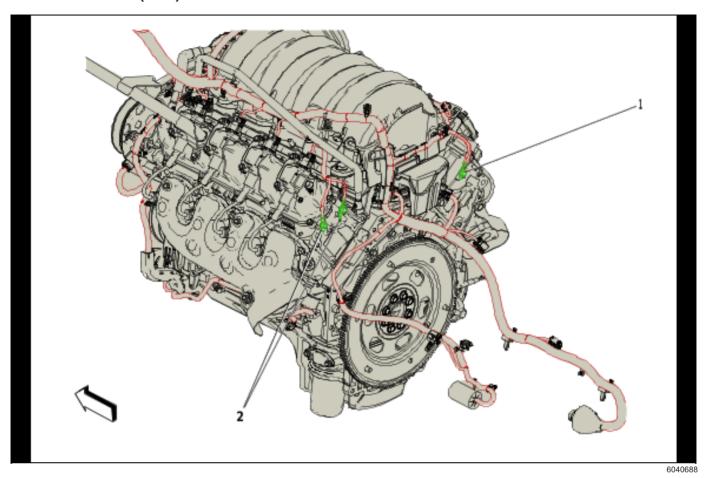
6-518

G102 and G103 (LV1)



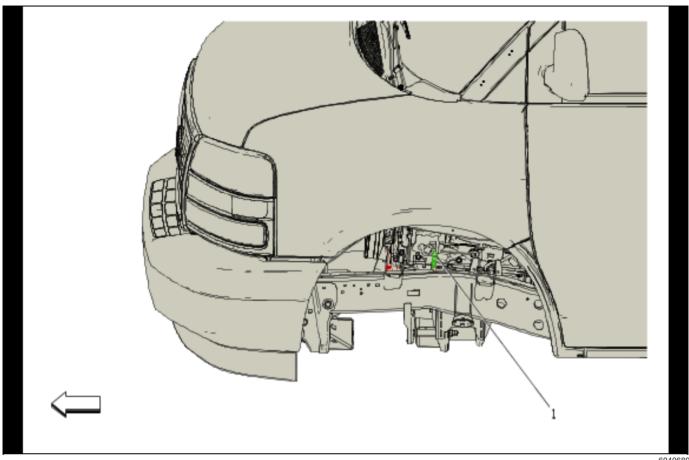
- (1) G102 Engine Wiring Harness
- (2) G103 Engine Wiring Harness

G102 and G103 (L8T)



- (1) G102 Engine Wiring Harness
- (2) G103 Engine Wiring Harness

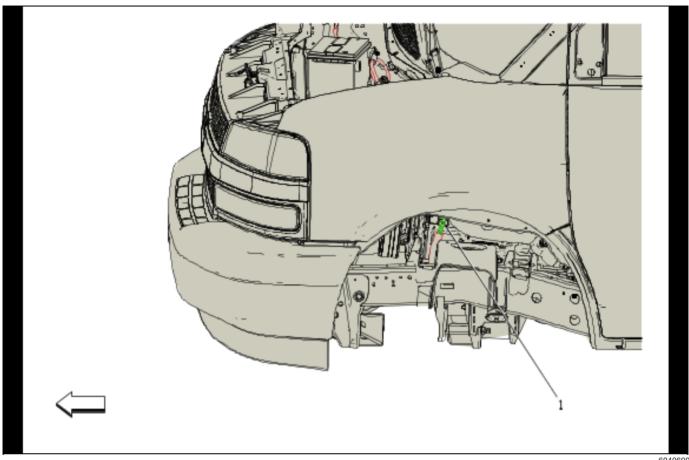
G104 (LV1)



Items

(1) G104 Negative Battery Cable

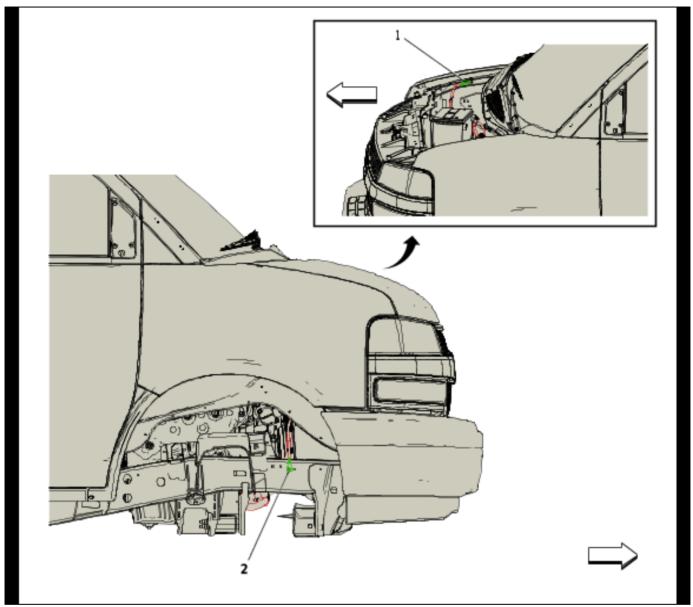
G104 (L8T)



Items

(1) G104 Negative Battery Cable

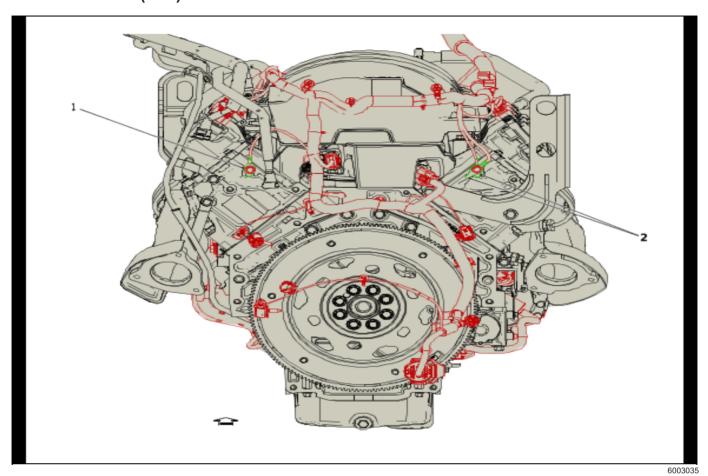
G105 and G106



6040692

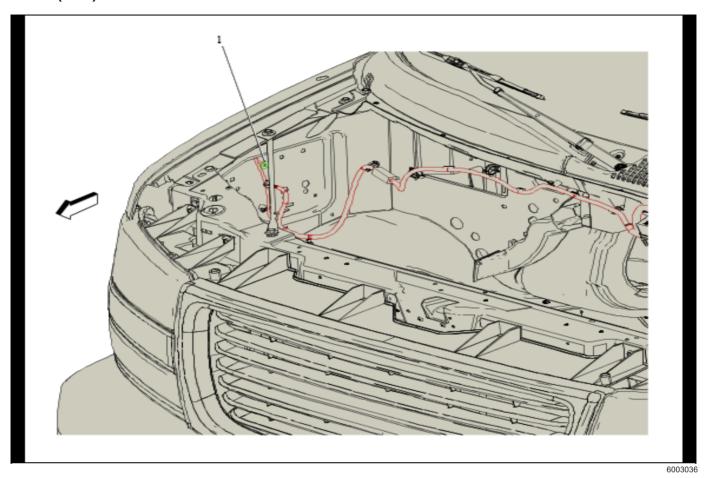
- (1) G106 Negative Battery Cable
- (2) G105 Negative Battery Cable

G107 and G108 (LV1)



- (1) G107 Engine Wiring Harness (LV1)
- (2) G108 Engine Wiring Harness

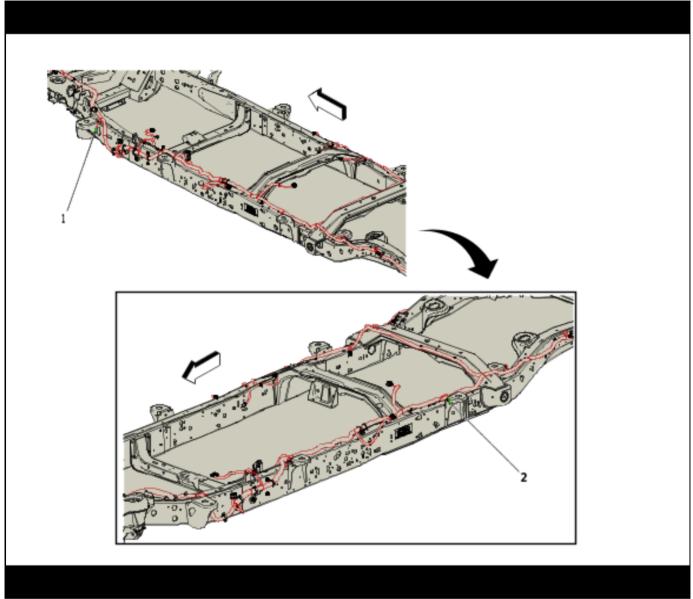
G109 (9L7)



Items

(1) G109 Accessory Wiring Harness (9L7)

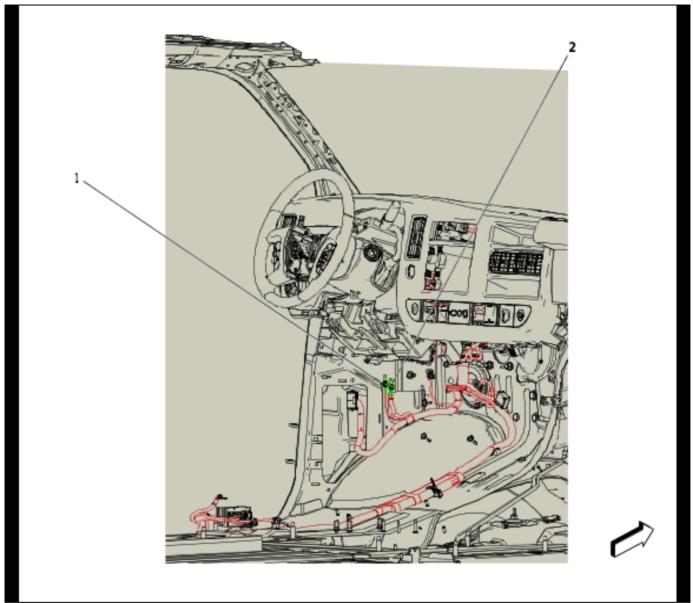
G300 and G404 (Passenger or Cargo)



6087091

- (1) G300 Chassis Wiring Harness
- (2) G404 Chassis Wiring Harness

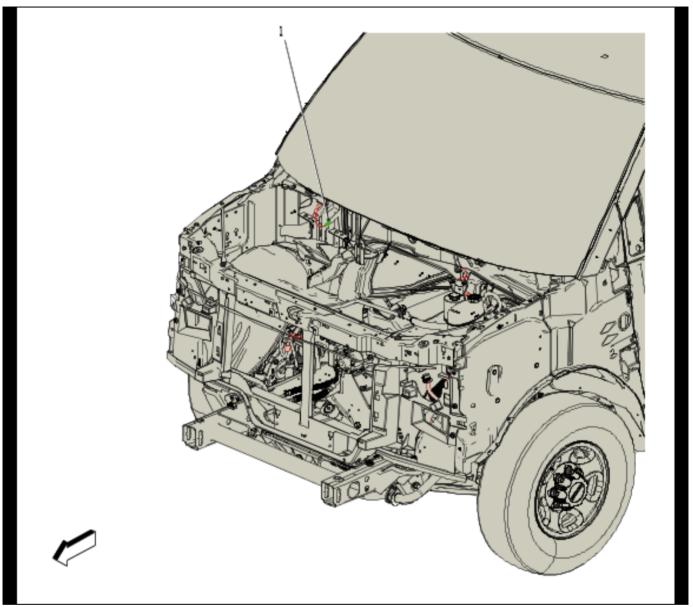
G301 and G302



3043576

- (1) G301 Instrument Panel
- (2) G302 Instrument Panel

G304

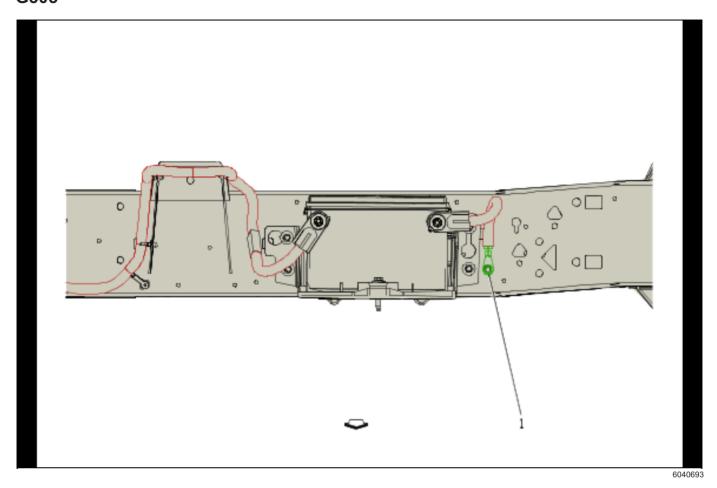


6043578

Items

(1) G304 Instrument Panel

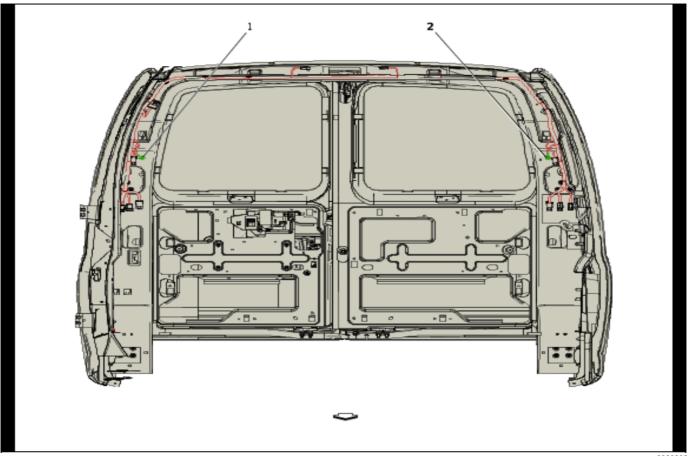
G305



Items

(1) G305 Auxiliary Battery Negative Cable (TP3)

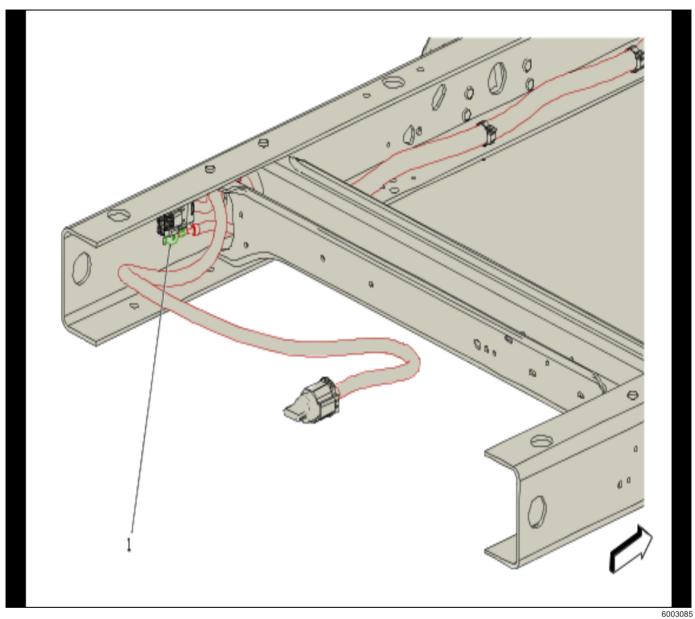
G401 and G402 (Passenger or Cargo)



6003038

- (1) G401 Body Wiring Harness (Passenger/Cargo)
- (2) G402 Body Wiring Harness (Passenger/Cargo)

G404 (Cutaway)

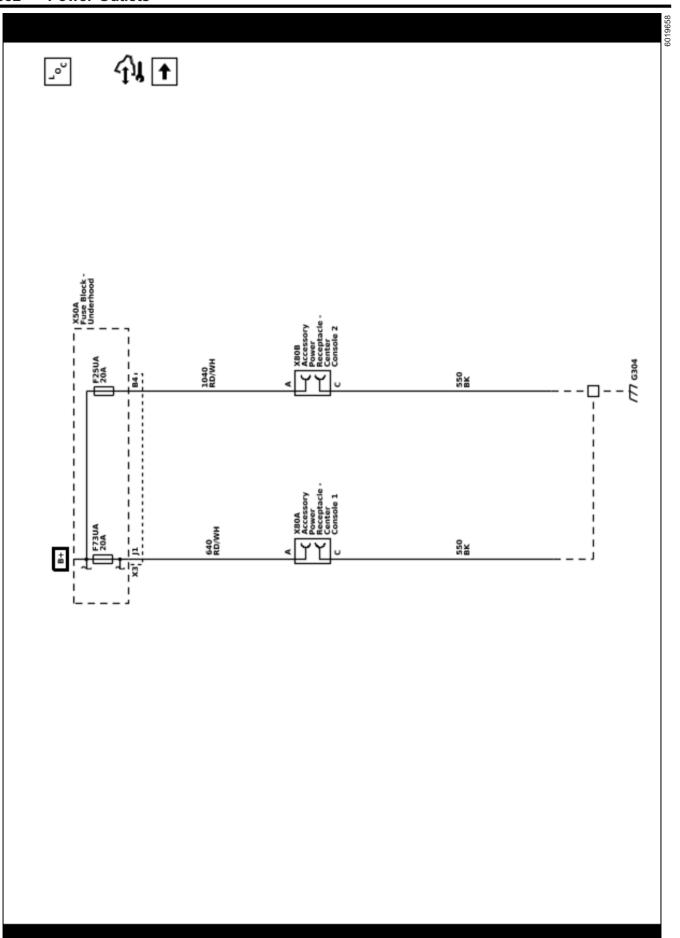


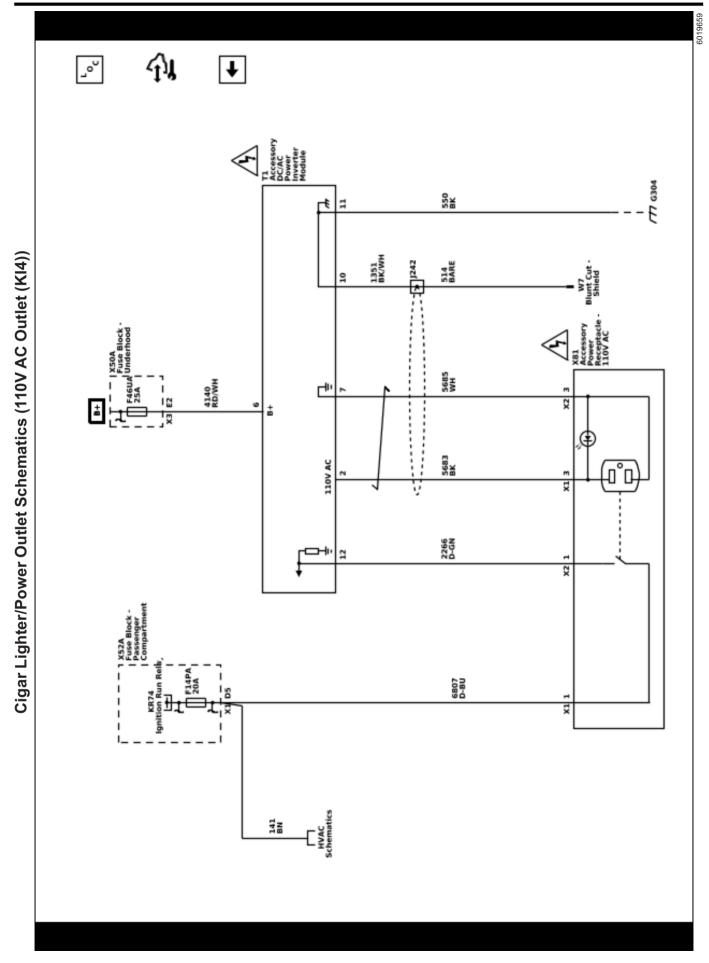
Items

(1) G404 Chassis Wiring Harness

Power Outlets

Schematic and Routing Diagrams





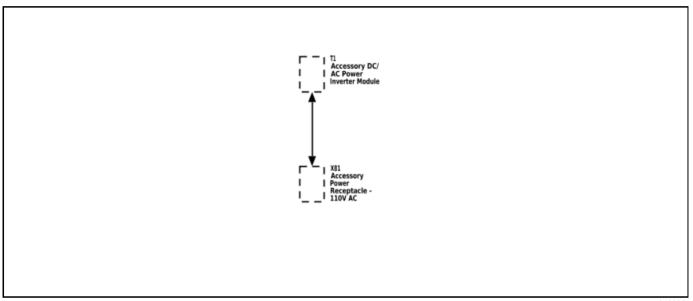
Description and Operation Power Outlets Description and Operation

12 Volt Power Outlet Receptacle Description and Operation

The 12 V accessory power receptacles are supplied B+ all the time

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 150 watts of power. The accessory power receptacle – 110 V AC provides the usual connection for AC powered devices.

110 Volt Power Outlet Receptacle System Operation

The accessory DC/AC power inverter module receives fuse protected battery voltage and is connected to the 12 V electrical system ground. The accessory power receptacle – 110 V AC has an internal switch, that detects when an AC powered device is plugged into the outlet. When the ignition is ON, and an AC powered device is plugged into the accessory power receptacle – 110 V AC, the normally open switch in the accessory power receptacle – 110 V AC, closes. When the accessory DC/AC power inverter module detects the voltage from the accessory power receptacle – 110 V AC switch, the inverter module begins to supply 110 V AC to the accessory power receptacle – 110 V AC after

a 1.5 second 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 second delay.

110 Volt Power Outlet Receptacle Overload Shutdown

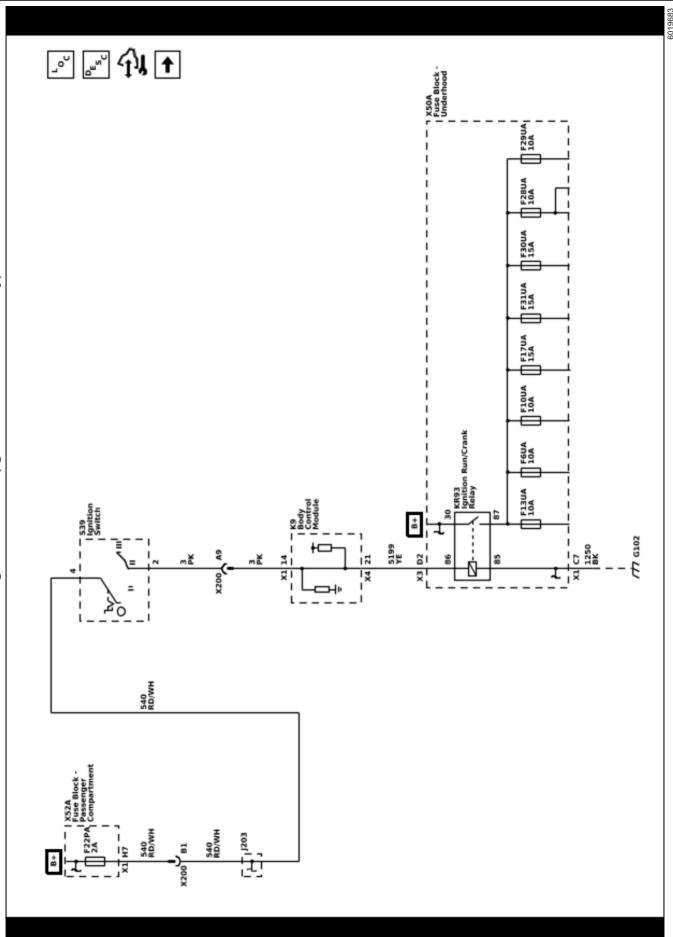
The accessory DC/AC power inverter module will turn OFF if the current in the 110 V circuit is greater than 3.8 A for 1 second, or 2.5 A for 10 seconds. The module will turn ON again, when the AC powered device is unplugged from the outlet, and then plugged into the outlet after a 3 second delay.

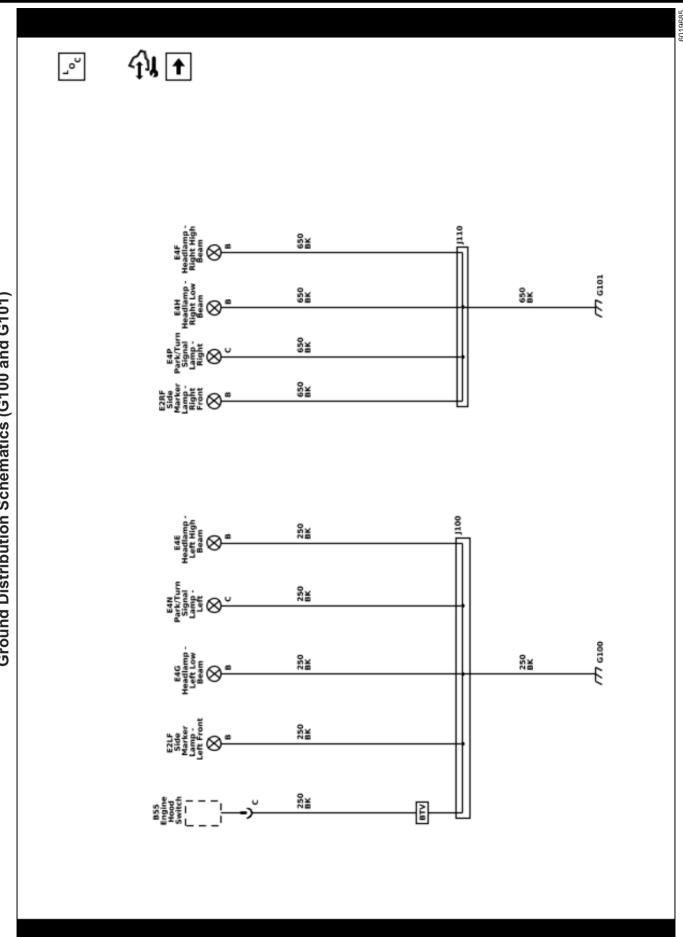
110 Volt Power Outlet Receptacle Internal Shutdown

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.

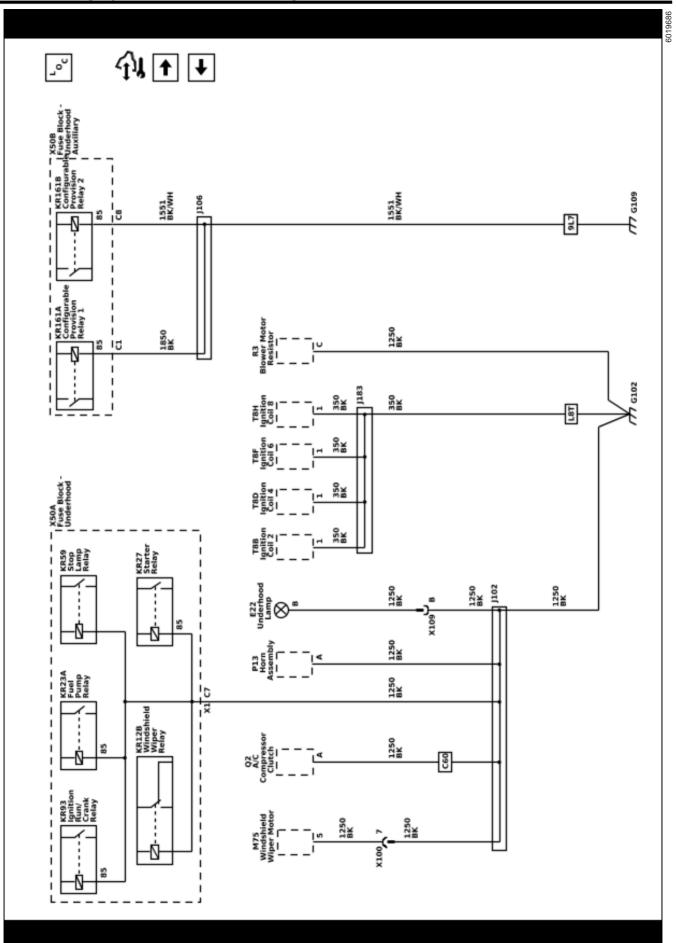
Wiring Systems and Power Management Schematic and Routing Diagrams



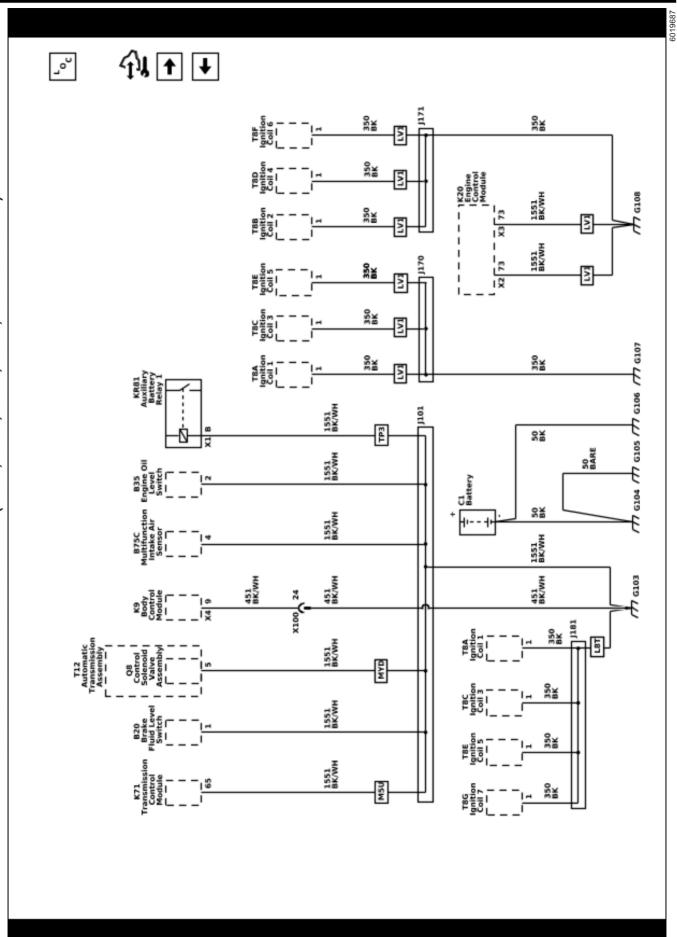




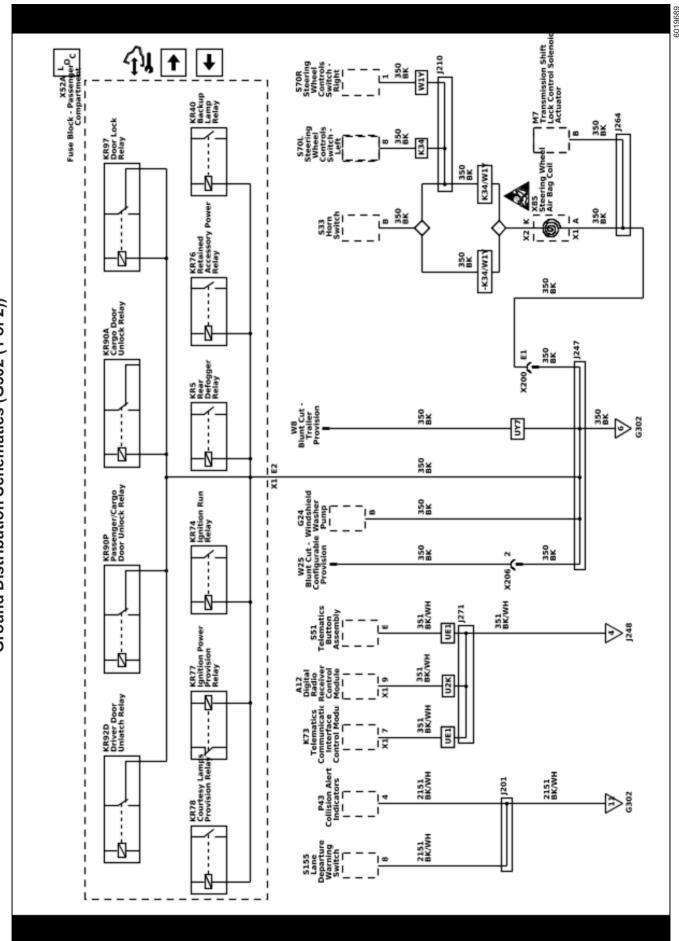


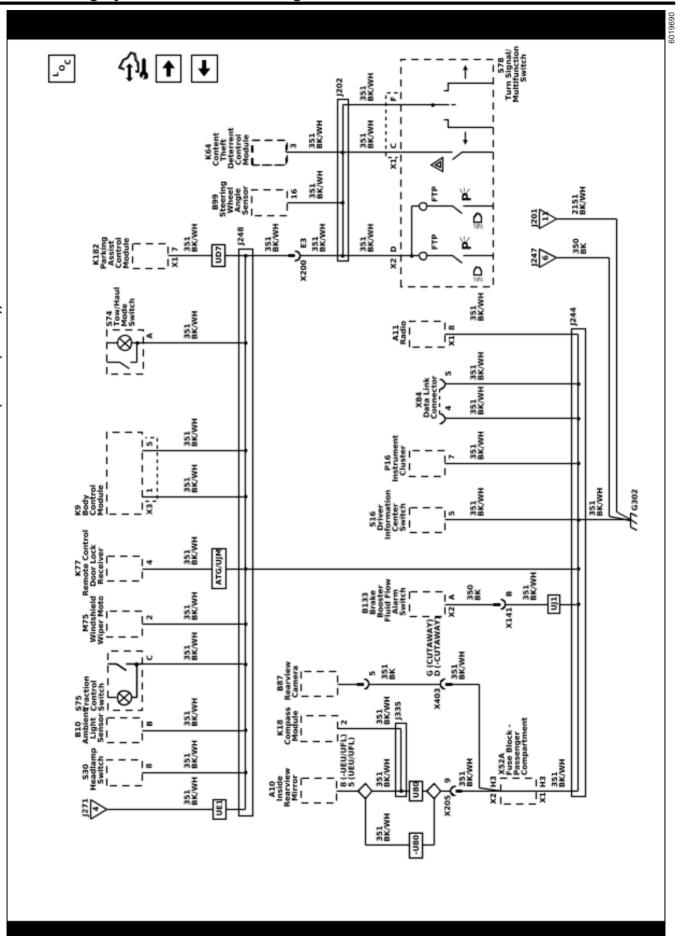


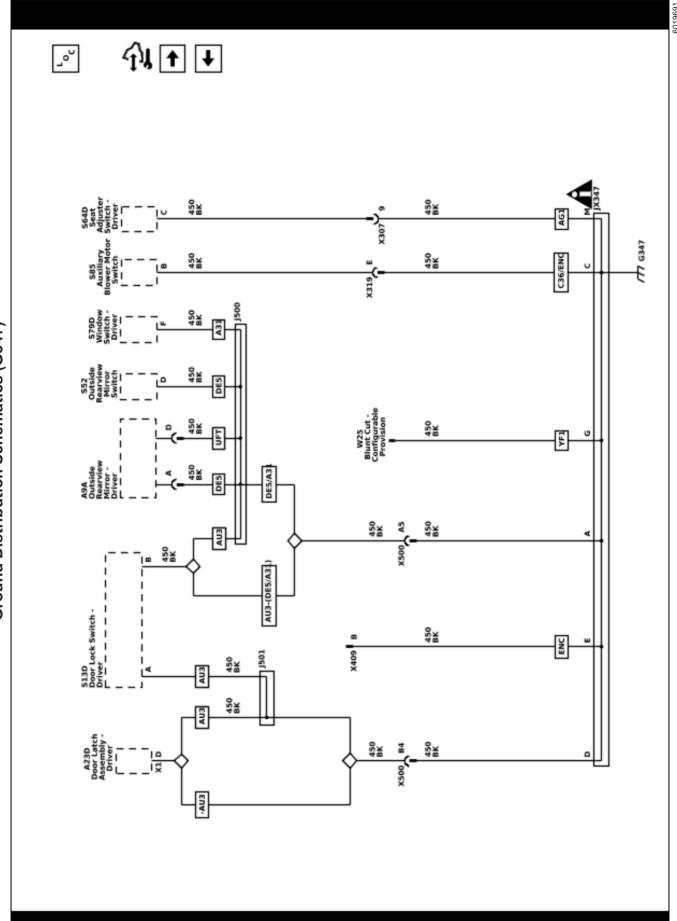


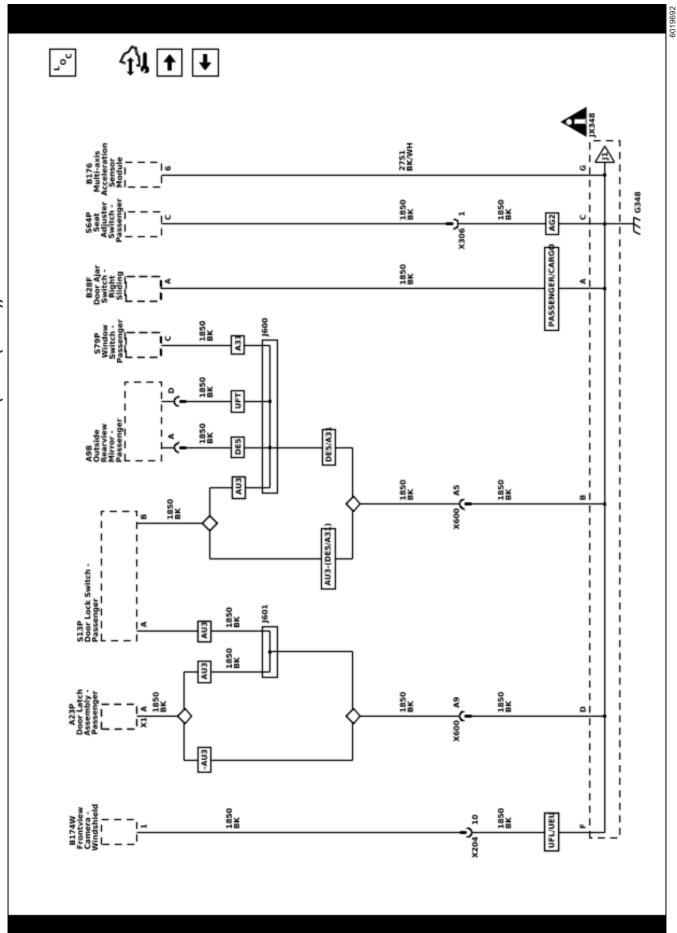




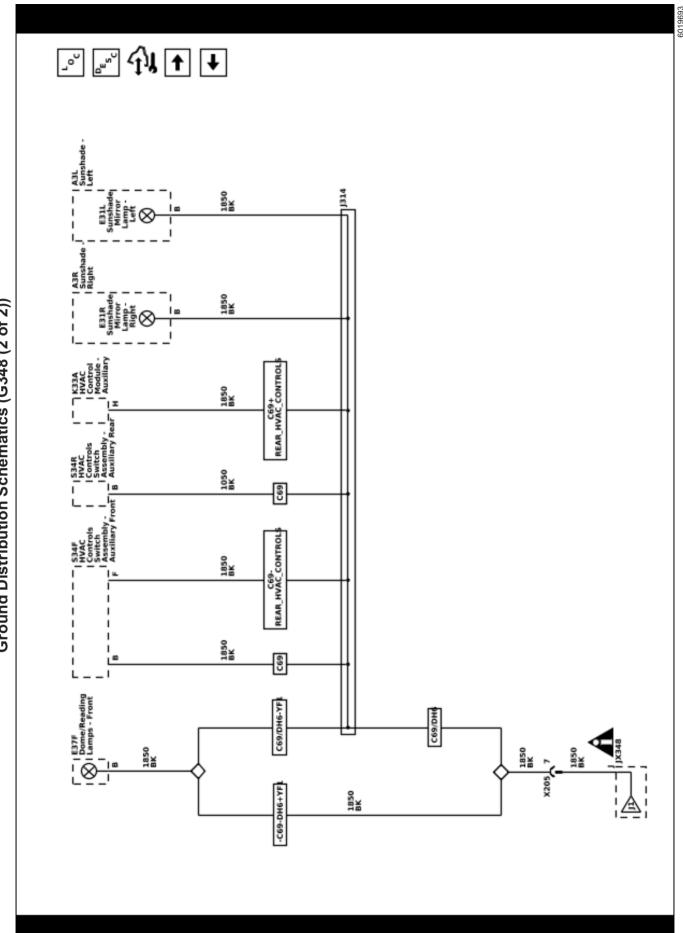


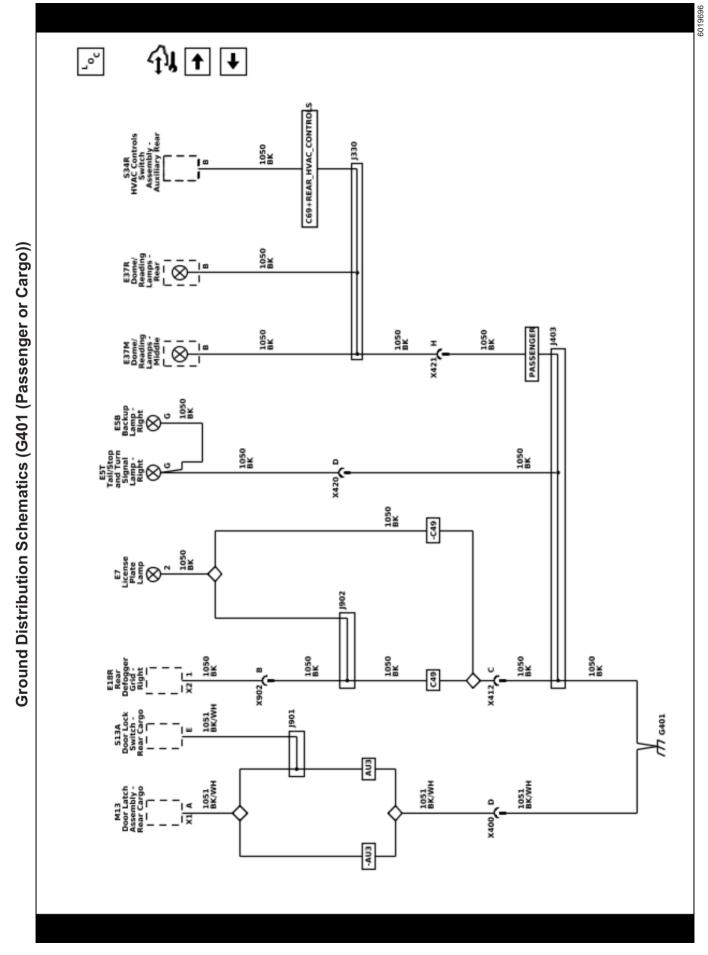


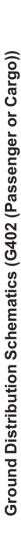


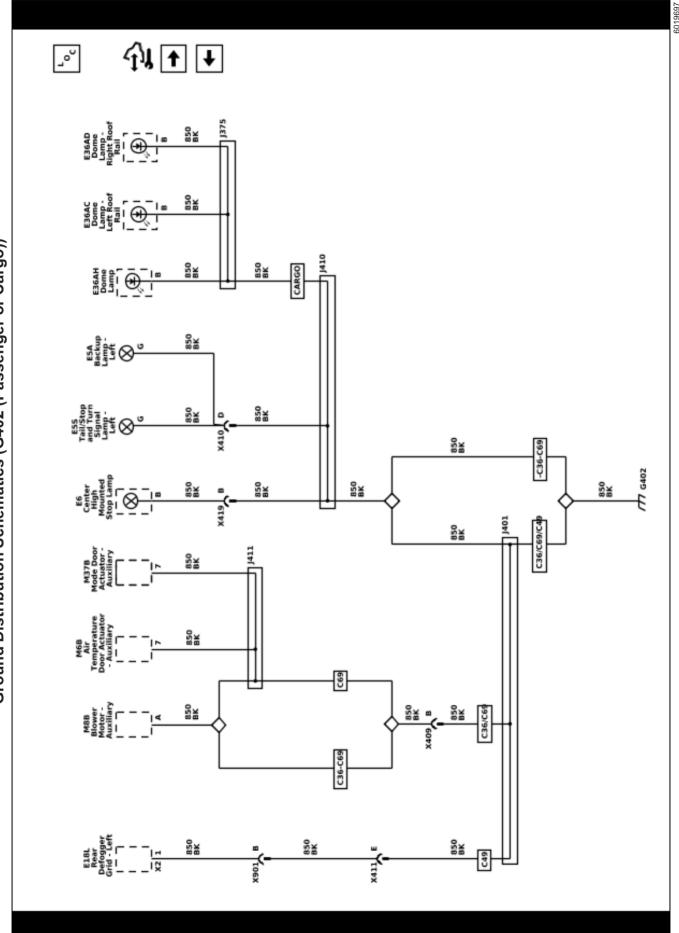


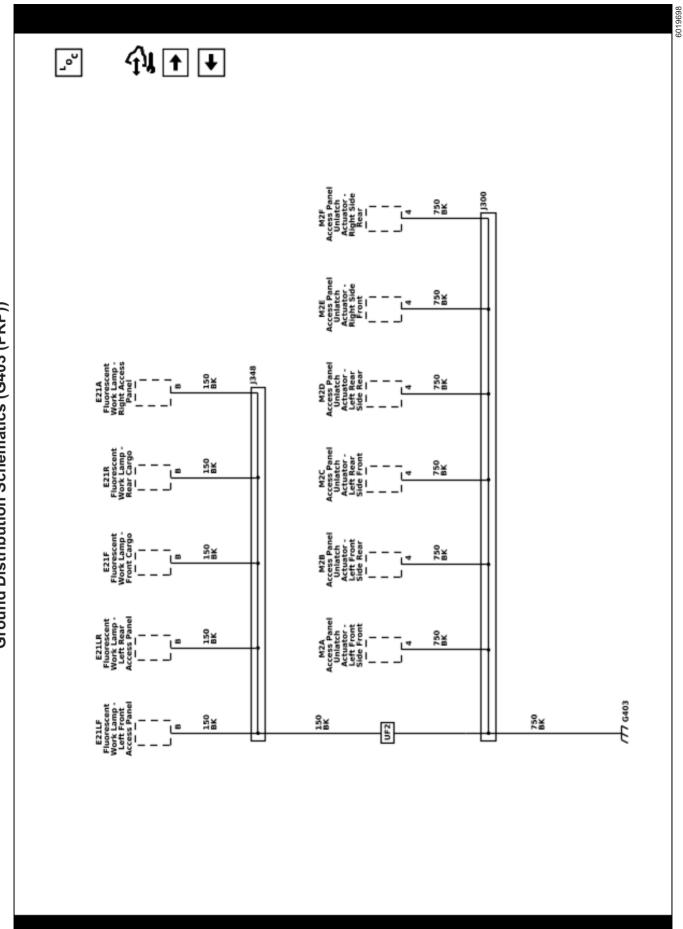


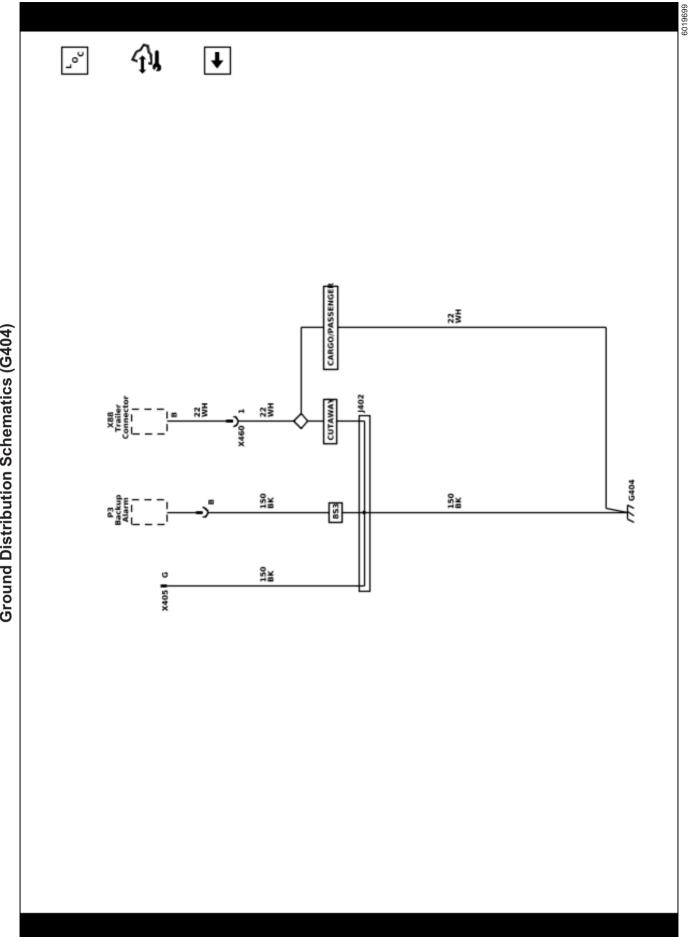


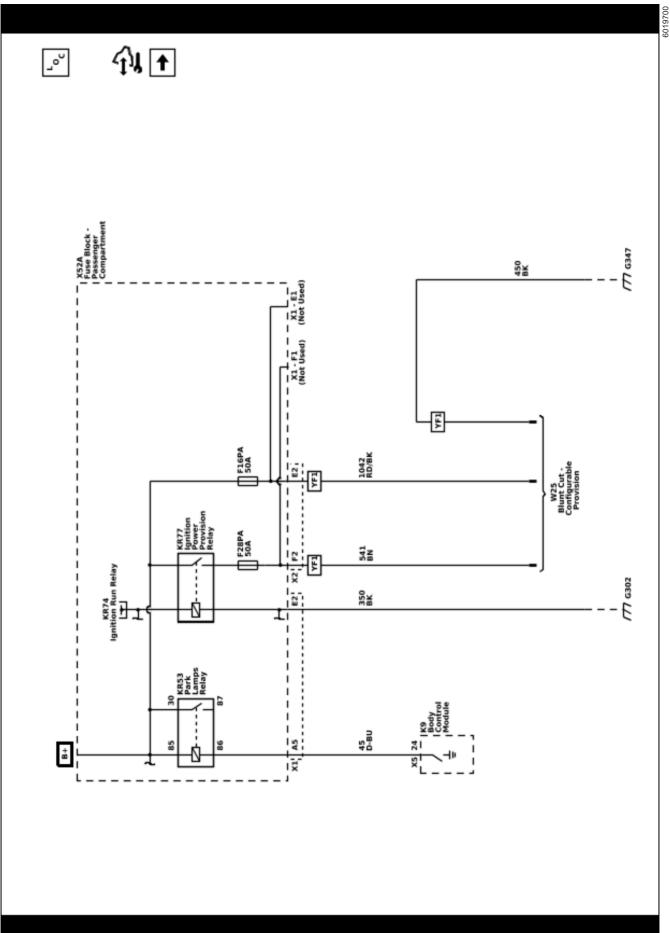


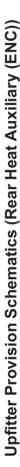


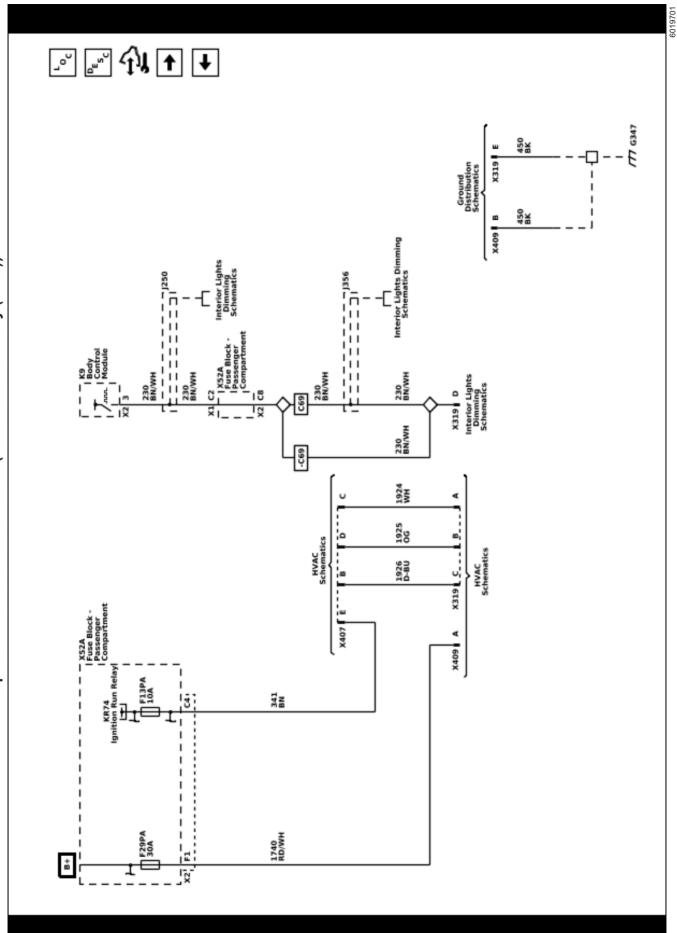












Component Locator

Master Electrical Component List

Code	Name	Option	Location	Locator View	Connector End View
A3L	Sunshade - Left	DH6	On the upper left of the headliner	Headliner Compo- nents - Front	A3L Sunshade - Left
A3R	Sunshade - Right	DH6	On the upper right of the headliner	Headliner Compo- nents - Front	<u>A3R Sunshade -</u> <u>Right</u>
A5	Driver Information Center	_	Integral to P16 Instrument Cluster	_	_
A7	Fuel Pump and Level Sensor As- sembly	_	In the vehicle underbody, in the fuel tank	Fuel Tank Components (NET) Fuel Tank Components (Without NET)	A7 Fuel Pump and Level Sensor Assem- bly
A9A	Outside Rearview Mirror - Driver	_	Attached to the exterior of the left front door	<u>Driver Door Compo-</u> <u>nents</u>	A9A Outside Rear- view Mirror - Driver
A9B	Outside Rearview Mirror - Passen- ger	_	Attached to the exterior of the right front door	Front Passenger Door Components	A9B Outside Rear- view Mirror - Passen- ger
A10	Inside Rearview Mirror	I	In the passenger compart- ment, mounted at the top center of the windshield	<u>Headliner Compo-</u> <u>nents - Front</u>	A10 Inside Rearview Mirror (-UEU/UFL) A10 Inside Rearview Mirror (UEU/UFL)
A11	Radio		In the center of the instru- ment panel	Instrument Panel Components (1 of 2)	 A11 Radio X1 A11 Radio X2 A11 Radio X3 A11 Radio X6
A12	Digital Radio Re- ceiver Control Module	U2K	In the passenger compart- ment, mounted on a brack- et under driver knee bolster panel	Instrument Panel Components (2 of 2)	A12 Digital Radio Re- ceiver Control Mod- ule X1
A23D	Door Latch Assembly - Driver	l	Towards the rear of the driver door	<u>Driver Door Compo</u> <u>nents</u>	 A23D Door Latch Assembly - Driver X1 - A23D Door Latch Assembly - Driver X2
A23P	Door Latch Assembly - Passenger		Towards the rear of the passenger door	Front Passenger Door Components	 A23P Door Latch Assembly - Pas- senger X1 A23P Door Latch Assembly - Pas- senger X2
A91	Mirror Display	UVC	Internal to A10 Inside Rearview Mirror	_	_
B1	A/C Refrigerant Pressure Sensor	C60	On the engine harness in the left rear side of the engine compartment	Engine Compartment Components (2 of 2)	B1 A/C Refrigerant Pressure Sensor
B1B	A/C Low Side Pressure Switch	C60	Right rear side of the engine compartment, on the side of the accumulator	Engine Compartment Components (2 of 2)	B1B A/C Low Side Pressure Switch
B5LF	Wheel Speed Sensor - Left Front	_	At the left front wheel	Wheel Speed Sensors (Cargo/Passenger)	B5LF Wheel Speed Sensor - Left Front

Master Electrical Component List (cont d)						
Code	Name	Option	Location	Locator View	Connector End View	
B5LR	Wheel Speed Sensor - Left Rear	_	At the left rear wheel, attached to the backing plate	Wheel Speed Sensors (Cargo/ Passenger) Wheel Speed Sensors (Cutaway with DRW) Wheel Speed Sensors (Cutaway with SRW)	• B5LR Wheel Speed Sensor - Left Rear (-R04) • B5LR Wheel Speed Sensor - Left Rear (R04)	
B5RF	Wheel Speed Sensor - Right Front	_	At the right front wheel	Wheel Speed Sensors (Cargo/Passenger)	B5RF Wheel Speed Sensor - Right Front	
B5RR	Wheel Speed Sensor - Right Rear	_	At the right rear wheel, attached to the backing plate	Wheel Speed Sensors (Cargo/ Passenger) Wheel Speed Sensors (Cutaway with DRW) Wheel Speed Sensors (Cutaway with SRW)	B5RR Wheel Speed Sensor - Right Rear (-R04) B5RR Wheel Speed Sensor - Right Rear (R04)	
В9	Ambient Air Temperature Sensor	_	Attached to the front center of the radiator support	Front of Vehicle Components	B9 Ambient Air Temperature Sensor (LV1/L8T) B9 Ambient Air Temperature Sensor (UFA)	
B10	Ambient Light Sensor	_	On the top of the instrument panel	Instrument Panel Components (1 of 2)	B10 Ambient Light Sensor	
B12A	Transmission Flu- id Pressure Switch	MYD	Internal to T12 Automatic Transmission Assembly	_	_	
B13	Transmission Fluid Temperature Sensor	_	Internal to T12 Automatic Transmission Assembly	_	_	
B14A	Transmission Output Shaft Speed Sensor	_	Internal to T12 Automatic Transmission Assembly	Automatic Transmis- sion Internal Electri- cal Components	_	
B14C	Transmission Input Shaft Speed Sensor	_	Internal to T12 Automatic Transmission Assembly	_	_	
B14D	Transmission Intermediate Shaft Speed Sensor	M5U	Under the vehicle, internal to the Transmision Assembly	_	_	
B15	Transmission Internal Mode Switch	MYD	Internal to T12 Automatic Transmission Assembly	_	_	
B18	Battery Current Sensor	_	Attached to the negative terminal of the battery	Engine Compartment Components (1 of 2)	B18 Battery Current Sensor	
B19A	Brake Booster Fluid Pressure Alarm Switch	UJ1	In the power steering inlet hose, near the power steering pump	Brake Booster Fluid Alarm Switches (UJ1)	B19A Brake Booster Fluid Pressure Alarm Switch	
B20	Brake Fluid Level Switch	_	Left rear of the engine com- partment, attached to the left lower side of the brake fluid reservoir	Engine Compartment Components (1 of 2)	B20 Brake Fluid Lev- el Switch	
B22	Brake Pedal Position Sensor	_	Attached to brake pedal assembly	Instrument Panel Components (1 of 2)	B22 Brake Pedal Po- sition Sensor	

Code	Name	Option	Location	Locator View	Connector End View
B23	Camshaft Position Sensor	— —	Front of the engine be- tween the water pump and the crank pulley	—	B23 Camshaft Position Sensor
B24	Mobile Telephone Microphone	UE1	In the passenger compart- ment, in the overhead con- sole	<u>Headliner Compo-</u> <u>nents - Front</u>	B24 Mobile Tele- phone Microphone
B26	Crankshaft Position Sensor	_	Attached to the lower right rear side of the engine, behind the starter	Left Side of the Engine Components (L8T) Lower Left Rear of the Engine Components (LV1)	B26 Crankshaft Posi- tion Sensor
B28F	Door Ajar Switch - Right Sliding	Cargo/Passen- ger	Mounted towards the bot- tom of the right rear door	Passenger Compart- ment Components	B28F Door Ajar Switch - Right Sliding
B34	Engine Coolant Temperature Sen- sor	_	Attached to the engine coolant thermostat housing	 Front of the Engine Components (LV1) Right Side of the Engine Components (L8T) 	B34 Engine Cool- ant Temperature Sensor (L8T) B34 Engine Cool- ant Temperature Sensor (LV1)
B35	Engine Oil Level Switch	_	Attached to the left side of the oil pan	Left Side of the Engine Components (L8T) Left Side of the Engine Components (L8T) Lower Left Rear of the Engine Components (LV1)	B35 Engine Oil Level Switch (L8T) B35 Engine Oil Level Switch (LV1)
B36	Engine Oil Temperature Sensor	L8T	In the engine compartmnet, near the left rear of the en- gine block	Right Side of the Engine Components (L8T)	B36 Engine Oil Temperature Sensor
B37B	Engine Oil Pressure Sensor	_	In engine compartment, on the rear lower left side of the engine	Front of the Engine Components (LV1) Top of Engine Components (L8T)	B37B Engine Oil Pressure Sensor
B46	Fuel Level Sensor	_	Under the vehicle, in the fuel tank	Inside of Fuel Tank Components	_
B47	Fuel Pressure Sensor	_	Under the vehicle, near the fuel tank	Frame and Underbody Components (With NE7) Frame and Underbody Components (Without NE7)	B47 Fuel Pressure Sensor (-Cutaway Chassis) B47 Fuel Pressure Sensor (Cutaway Chassis)
B47B	Fuel Rail Pressure Sensor	_	In the engine compartment, on top of the engine, mounted to the rear of the right fuel rail	Top of Engine Components (L8T) Top of the Engine Components (LV1)	B47B Fuel Rail Pressure Sensor
B52C	Heated Oxygen Sensor - Bank 1 Sensor 1	_	Attached to the left front exhaust pipe, front of the catalytic converter	Rear of the Engine Components (LV1) Right Side of the Engine Components (L8T)	B52C Heated Oxy- gen Sensor - Bank 1 Sensor 1

Code	Name	Option	Location	Locator View	Connector End View
B52D	Heated Oxygen Sensor - Bank 1 Sensor 2	_	Attached to the left front exhaust pipe, back of the catalytic converter	Rear of the Engine Components (LV1) Right Side of the Engine Components (L8T)	B52D Heated Oxy- gen Sensor - Bank 1 Sensor 2
B52E	Heated Oxygen Sensor - Bank 2 Sensor 1	Ι	Attached to the right front exhaust pipe, front of the catalytic converter	Left Side of the Engine Components (L8T) Rear of the Engine Components (LV1)	B52E Heated Oxy- gen Sensor - Bank 2 Sensor 1
B52F	Heated Oxygen Sensor - Bank 2 Sensor 2	I	Attached to the right front exhaust pipe, rear of the catalytic converter	 Left Side of the Engine Compo- nents (L8T) Rear of the En- gine Components (LV1) 	B52F Heated Oxygen Sensor - Bank 2 Sen- sor 2
B55	Engine Hood Switch	BTV	In the center front of the en- gine compartment, at- tached to the hood latch assembly	Front of Vehicle Components	B55 Engine Hood Switch
B59	Front Impact Sensor	_	On the lower center of the radiator support	Airbag Impact Sensor Components (E24) Airbag Impact Sensor Components (YA2)	<u>B59 Front Impact</u> <u>Sensor</u>
B63LF	Side Impact Sensor - Left Front	ASF	In the left front side door	Airbag Impact Sensor Components (E24) Airbag Impact Sensor Components (YA2)	B63LF Side Impact Sensor - Left Front
B63LR	Side Impact Sensor - Left Rear	ASF	In the left center of the vehicle behind the body panel trim	Airbag Impact Sensor Components (E24) Airbag Impact Sensor Components (YA2)	B63LR Side Impact Sensor - Left Rear
B63RF	Side Impact Sen- sor - Right Front	ASF	In the right front side door	_	B63RF Side Impact Sensor - Right Front
B63RR	Side Impact Sensor - Right Rear	ASF	In the lower right side of the vehicle near the rear side door	Airbag Impact Sensor Compo- nents (E24) Airbag Impact Sensor Compo- nents (YA2)	B63RR Side Im- pact Sensor - Right Rear (E24) B63RR Side Im- pact Sensor - Right Rear (YA2)
B68A	Knock Sensor 1	_	Mounted to the lower right side of the engine in-between the engine oil pan and the right bank exhaust manifold	Lower Right Rear of the Engine Components (LV1) Right Side of the Engine Components (L8T)	B68A Knock Sensor 1
B68B	Knock Sensor 2	_	Mounted to the lower left of the engine, in-between the engine oil filter and the left bank exhaust manifold	Left Side of the Engine Components (L8T) Lower Left Rear of the Engine Components (LV1)	B68B Knock Sensor 2

Code	Name	Option	Location	Locator View	Connector End View
B74	Manifold Absolute Pressure Sensor	_	In the engine compartment, attached to the intake manifold, on top of the en- gine	 Front of the Engine Components (LV1) Right Side of the Engine Components (L8T) 	B74 Manifold Abso- lute Pressure Sensor
B75C	Multifunction In- take Air Sensor	_	Right front of the engine compartment, mounted in the air cleaner duct	Engine Compartment Components (2 of 2)	B75C Multifunction Intake Air Sensor
B80	Park Brake Switch	_	Left lower side of the instru- ment panel on the brake pedal assembly	_	B80 Park Brake Switch
B87	Rearview Camera	UVC	On the right rear cargo door, in license plate trim	Rear of Vehicle Com- ponents (Passenger or Cargo)	B87 Rearview Camera (-Cut- away) B87 Rearview Camera (Cut- away)
B88D	Seat Belt Switch - Driver	_	Right side of the driver seat, inside Seat Belt Buckle — Driver	_	_
B88P	Seat Belt Switch - Passenger	AK5	Left side of the front pas- senger seat, inside Seat Belt Buckle — Passenger	_	_
B99	Steering Wheel Angle Sensor	_	Attached the lower steering column jacket assembly	Steering Column Components (2 of 2)	B99 Steering Wheel Angle Sensor
B107	Accelerator Pedal Position Sensor	_	Left lower side of the instru- ment panel, above the ac- celerator pedal	Instrument Panel Components (1 of 2)	B107 Accelerator Pedal Position Sen- sor
B133	Brake Booster Fluid Flow Alarm Switch	UJ1	In the power steering outlet hose, near the power steering pump	Brake Booster Fluid Alarm Switches (UJ1)	B133 Brake Booster Fluid Flow Alarm Switch X1 B133 Brake Booster Fluid Flow Alarm Switch X2
B150	Fuel Tank Pressure Sensor	_	Attached to the top of the fuel sender assembly	Frame and Underbody Components (With NE7) Frame and Underbody Components (Without NE7) Fuel Tank Components (NE7) Fuel Tank Components (Without NE7) Fuel Tank Components (Without NE7)	B150 Fuel Tank Pressure Sensor
B153D	Seat Belt Buckle - Driver	_	Right side of the driver seat	<u>Driver Seat Compo-</u> <u>nents</u>	<u>B153D Seat Belt</u> <u>Buckle - Driver</u>
B153P	Seat Belt Buckle - Passenger	AK5	Left side of the front pas- senger seat	<u>Passenger Seat</u> <u>Components</u>	<u>B153P Seat Belt</u> <u>Buckle - Passenger</u>
B174W	Frontview Camera - Windshield	UFL	In the passenger compart- ment, mounted at the top center of the windshield	<u>Headliner Compo-</u> <u>nents - Front</u>	B174W Frontview Camera - Windshield
B176	Multi-axis Acceler- ation Sensor Mod- ule	_	In the passenger compartment, on the front center on the floor board between the front seats	Passenger Compart- ment Components	B176 Multi-axis Ac- celeration Sensor Module
B218L	Side Object Sen- sor Module - Left	UFT	At the rear of the vehicle, in the rear bumper, at the left corner	Rear of Vehicle Com- ponents (Passenger or Cargo)	B218L Side Object Sensor Module - Left (UFT)

	Master Electrical Component List (Cont d)							
Code	Name	Option	Location	Locator View	Connector End View			
B218R	Side Object Sensor Module - Right	UFT	At the rear of the vehicle, in the rear bumper, at the right corner	Rear of Vehicle Com- ponents (Passenger or Cargo)	<u>B218R Side Object</u> <u>Sensor Module -</u> <u>Right (UFT)</u>			
B303	Transmission Range Sensor	M5U	Under the vehicle, center, within T12 Automatic Transmission Assembly	_	B303 Transmission Range Sensor (M5U)			
B306E	Parking Assist Sensor - Rear Left Outer	UD7	At the rear of the vehicle, housed in the rear fascia	Rear of Vehicle Com- ponents (Passenger or Cargo)	B306E Parking Assist Sensor - Rear Left Outer (UD7)			
B306F	Parking Assist Sensor - Rear Left Middle	UD7	At the rear of the vehicle, housed in the rear fascia	Rear of Vehicle Com- ponents (Passenger or Cargo)	B306F Parking Assist Sensor - Rear Left Middle (UD7)			
B306G	Parking Assist Sensor - Rear Right Middle	UD7	At the rear of the vehicle, housed in the rear fascia	Rear of Vehicle Com- ponents (Passenger or Cargo)	B306G Parking As- sist Sensor - Rear Right Middle (UD7)			
В306Н	Parking Assist Sensor - Rear Right Outer	UD7	At the rear of the vehicle, housed in the rear fascia	Rear of Vehicle Com- ponents (Passenger or Cargo)	B306H Parking Assist Sensor - Rear Right Outer (UD7)			
C1	Battery	_	At the right front side of the engine compartment	Engine Compartment Components	 C1 Battery ((-)) C1 Battery ((+)) 			
C1B	Battery - Auxiliary	TP3	Left frame rail, center of the vehicle	Auxiliary Battery (TP3)	<u>C1B Battery - Auxili-</u> <u>ary</u>			
E2LF	Side Marker Lamp - Left Front	_	In the left front corner of the vehicle	Front of Vehicle Components	E2LF Side Marker Lamp - Left Front			
E2RF	Side Marker Lamp - Right Front	_	In the right front corner of the vehicle	Front of Vehicle Components	E2RF Side Marker Lamp - Right Front			
E4E	Headlamp - Left High Beam	_	At the left front of the vehicle	Front of Vehicle Components	E4E Headlamp - Left High Beam			
E4F	Headlamp - Right High Beam	_	At the right front of the vehicle	Front of Vehicle Components	E4F Headlamp - Right High Beam			
E4G	Headlamp - Left Low Beam	_	At the left front of the vehicle	Front of Vehicle Components	E4G Headlamp - Left Low Beam			
E4H	Headlamp - Right Low Beam	_	At the right front of the vehicle	Front of Vehicle Components	E4H Headlamp - Right Low Beam			
E4N	Park/Turn Signal Lamp - Left	_	In the left front corner of the vehicle	Front of Vehicle Components	E4N Park/Turn Signal Lamp - Left			
E4P	Park/Turn Signal Lamp - Right	_	In the right front corner of the vehicle	Front of Vehicle Components	E4P Park/Turn Signal Lamp - Right			
E5A	Backup Lamp - Left	_	Attached to the left tail lamp assembly	Rear of Vehicle Com- ponents (Passenger or Cargo)	E5A Backup Lamp - Left			
E5B	Backup Lamp - Right	_	Attached to the right tail lamp assembly	Rear of Vehicle Com- ponents (Passenger or Cargo)	E5B Backup Lamp - Right			
E5S	Tail/Stop and Turn Signal Lamp - Left	Passenger/Car- go	Attached to the left tail lamp assembly, upper bulb	Rear of Vehicle Com- ponents (Passenger or Cargo)	E5S Tail/Stop and Turn Signal Lamp - Left			
E5T	Tail/Stop and Turn Signal Lamp - Right	Passenger/Car- go	Attached to the right tail lamp assembly, upper bulb	Rear of Vehicle Com- ponents (Passenger or Cargo)	E5T Tail/Stop and Turn Signal Lamp - Right			
E6	Center High Mounted Stop Lamp	Passenger/Car- go	At the top rear center of the vehicle	Rear of Vehicle Com- ponents (Passenger or Cargo)	E6 Center High Mounted Stop Lamp			
E7	License Plate Lamp	Passenger/Car- go	Attached to the outer right cargo door, above the license plate mount	Rear of Vehicle Com- ponents (Passenger or Cargo)	E7 License Plate Lamp			

Code	Name	Option	Location	Locator View	Connector End View
E18L	Rear Defogger Grid - Left	C49	Attached to the left cargo door window	Rear Door Compo- nents (Passenger or <u>Cargo)</u>	 E18L Rear Defogger Grid - Left X1 E18L Rear Defogger Grid - Left X2
E18R	Rear Defogger Grid - Right	C49	Attached to the right cargo door window	Rear Door Compo- nents (Passenger or <u>Cargo)</u>	 E18R Rear Defogger Grid - Right X1 E18R Rear Defogger Grid - Right X2
E21A	Fluorescent Work Lamp - Right Ac- cess Panel	PRP	Mounted towards the right of the top access panel		E21A Fluorescent Work Lamp - Right Access Panel
E21F	Fluorescent Work Lamp - Front Car- go	PRP	Mounted towards the top front of the cargo area	ı	E21F Fluorescent Work Lamp - Front Cargo
E21LF	Fluorescent Work Lamp - Left Front Access Panel	PRP	At the front and towards the top of the left access panel		E21LF Fluorescent Work Lamp - Left Front Access Panel
E21LR	Fluorescent Work Lamp - Left Rear Access Panel	PRP	Mounted towards the top of the right access panel	ı	E21LR Fluorescent Work Lamp - Left Rear Access Panel
E21R	Fluorescent Work Lamp - Rear Car- go	PRP	Mounted towards the top rear of the cargo area	_	E21R Fluorescent Work Lamp - Rear Cargo
E22	Underhood Lamp		In the engine compartment, attached to the left inner hood panel	<u>Underside of Hood</u> <u>Components</u>	E22 Underhood Lamp
E31L	Sunshade Mirror Lamp - Left	DH6	On the upper left of the headliner, inside the Sunshade — Left	<u>Headliner Compo-</u> <u>nents - Front</u>	_
E31R	Sunshade Mirror Lamp - Right	DH6	On the upper right of the headliner, in the Sunshade — Right	Headliner Compo- nents - Front	_
E36AC	Dome Lamp - Left Roof Rail	Cargo Without YF7	In the rear of the roof panel	_	E36AC Dome Lamp - Left Roof Rail
E36AD	Dome Lamp - Right Roof Rail	Cargo Without YF7	In the rear of the roof panel		E36AD Dome Lamp - Right Roof Rail
E36AH	Dome Lamp	Cargo Without YF7	In the rear of the roof panel		E36AH Dome Lamp
E37F	Dome/Reading Lamps - Front	Without YF7	In the front of the roof panel	<u>Headliner Compo-</u> <u>nents - Front</u>	E37F Dome/Reading Lamps - Front
E37M	Dome/Reading Lamps - Middle	Passenger	In the center of the roof panel	<u>Headliner Compo-</u> <u>nents - Rear</u>	E37M Dome/Reading Lamps - Middle
E37R	Dome/Reading Lamps - Rear	Passenger	In the rear of the roof panel	<u>Headliner Compo-</u> <u>nents - Rear</u>	E37R Dome/Reading Lamps - Rear
F101	Passenger Instru- ment Panel Air Bag	_	Right side of the instrument panel	Instrument Panel Components (2 of 2)	F101 Passenger Instrument Panel Air Bag
F105LF	Roof Rail Air Bag - Left Front	ASF	Behind the left side of the headliner trim	Passenger Compart- ment Components	F105LF Roof Rail Air Bag - Left Front
F105RF	Roof Rail Air Bag - Right Front	ASF	Behind the right side of the headliner trim	Passenger Compart- ment Components	F105RF Roof Rail Air Bag - Right Front
F105RR	Roof Rail Air Bag - Right Rear	ASF	Behind the right rear side of the headliner trim	Passenger Compart- ment Components	F105RR Roof Rail Air Bag - Right Rear
F106D	Seat Side Air Bag - Driver	AK5	Within the driver seat back, towards the outside	_	F106D Seat Side Air Bag - Driver

Code	Nama		Location	Locator View	Connector End View
F106P	Name Seat Side Air Bag	Option AK5	Within the passenger seat	— Locator view	F106P Seat Side Air
F107	- Passenger Steering Wheel Air Bag	<u> </u>	Attached to the center of the steering wheel	Steering Column Components (1 of 2)	Bag - Passenger F107 Steering Wheel Air Bag
F109D	Seat Belt Buckle Pretensioner - Driver	_	Part of the seat belt buckle	Driver Seat Components	F109D Seat Belt Buckle Pretensioner - Driver
F109P	Seat Belt Buckle Pretensioner - Passenger	AK5	Part of the seat belt buckle	Passenger Seat Components	F109P Seat Belt Buckle Pretensioner - Passenger
G12	Fuel Pump	_	Under the vehicle, inter- nally attached to the middle of the fuel pump assembly	_	_
G13	Generator	_	Attached to the right front of the engine	Front of the Engine Components (LV1) Left Side of the Engine Components (L8T)	 G13 Generator X1 G13 Generator X2 (L8T+KG4+TP3) G13 Generator X2 (L8T+KG4-TP3) G13 Generator X2 (L8T+KW5+TP3) G13 Generator X2 (L8T+KW5-TP3) G13 Generator X2 (L8T+KW5-TP3) G13 Generator X2 (LV1+K68) G13 Generator X2 (LV1+KW5)
G18	High Pressure Fuel Pump	_	In the engine compartment, at the top rear of the en- gine, between the cylinder heads	• Top of Engine Components (L8T) • Top of the Engine Components (LV1)	G18 High Pressure Fuel Pump
G24	Windshield Wash- er Pump		Attached to the windshield washer fluid reservoir in the right front of the engine compartment	_	G24 Windshield Washer Pump
К9	Body Control Module	_	Lower right side of the instrument panel behind the knee bolster	Instrument Panel Components (2 of 2)	K9 Body Control Module X1 K9 Body Control Module X2 K9 Body Control Module X3 K9 Body Control Module X4 K9 Body Control Module X5 K9 Body Control Module X5 K9 Body Control Module X6 K9 Body Control Module X7
K17	Electronic Brake Control Module	_	Attached to the left frame rail, near the center of the vehicle	Frame and Under- body Components (With NE7) Frame and Under- body Components (Without NE7)	K17 Electronic Brake Control Module
K18	Compass Module	U80	In the front of the headliner	<u>Headliner Compo-</u> <u>nents - Front</u>	K18 Compass Mod- ule

Code	Name	Option	Location	Locator View	Connector End View
K20	Engine Control Module		At the left front side of the engine compartment, near the underhood fuse block on the inner left front fender	Engine Compartment Components (1 of 2)	K20 Engine Control Module X1 (L8T) K20 Engine Control Module X2 (L8T) K20 Engine Control Module X3 (L8T) K20 Engine Control Module X1 (LV1) K20 Engine Control Module X1 (LV1) K20 Engine Control Module X2 (LV1) K20 Engine Control Module X3 (LV1)
K33A	HVAC Control Module - Auxiliary	_	In the front of the headliner	Headliner Compo- nents - Front	K33A HVAC Control Module - Auxiliary
K36	Inflatable Restraint Sensing and Diagnostic Module	_	Below the driver seat under the carpet on the floor board	Passenger Compart- ment Components	K36 Inflatable Restraint Sensing and Diagnostic Module X1 K36 Inflatable Restraint Sensing and Diagnostic Module X2
K64	Content Theft De- terrent Control Module	_	In the steering column around the ignition key cylinder housing	Steering Column Components (1 of 2)	K64 Content Theft Deterrent Control Module
K71	Transmission Control Module	M5U	Internal to T12 Automatic Transmission Assembly	Engine Compartment Components (1 of 2)	K71 Transmission Control Module (M5U) K71 Transmission Control Module X3 (MYD)
K73	Telematics Communication Interface Control Module	UE1	In the passenger compart- ment, mounted on a brack- et under driver knee bolster panel	Instrument Panel Components (2 of 2)	K73 Telematics Communication Interface Control Module X1 K73 Telematics Communication Interface Control Module X2
K77	Remote Control Door Lock Re- ceiver	ATG/UJM	Attached to the upper left side of the instrument panel carrier, above the instrument panel cluster (IPC)	Instrument Panel Components (2 of 2)	K77 Remote Control Door Lock Receiver
K111	Fuel Pump Driver Control Module	_	Under the vehicle, attached to the left frame rail, appriximately midpoint of vehicle	Frame and Underbody Components (With NE7) Frame and Underbody Components (Without NE7)	K111 Fuel Pump Driv- er Control Module
K182	Parking Assist Control Module	UD7	In the passenger compart- ment, mounted within the instrument panel on the right side if the steering col- umn	Instrument Panel Components (2 of 2)	K182 Parking Assist Control Module X1 K182 Parking Assist Control Module X2

Master Electrical Component List (cont d)							
Code	Name	Option	Location	Locator View	Connector End View		
M2A	Access Panel Unlatch Actuator - Left Front Side Front	PRP	Inside the left access panel area		M2A Access Panel Unlatch Actuator - Left Front Side Front		
M2B	Access Panel Unlatch Actuator - Left Front Side Rear	PRP	Inside the left access panel area	Ι	M2B Access Panel Unlatch Actuator - Left Front Side Rear		
M2C	Access Panel Unlatch Actuator - Left Rear Side Front	PRP	Inside the left access panel area		M2C Access Panel Unlatch Actuator - Left Rear Side Front		
M2D	Access Panel Unlatch Actuator - Left Rear Side Rear	PRP	Inside the left access panel area	ı	M2D Access Panel Unlatch Actuator - Left Rear Side Rear		
M2E	Access Panel Un- latch Actuator - Right Side Front	PRP	Inside the right access panel area		M2E Access Panel Unlatch Actuator - Right Side Front		
M2F	Access Panel Un- latch Actuator - Right Side Rear	PRP	Inside the right access panel area	_	M2F Access Panel Unlatch Actuator - Right Side Rear		
M6	Air Temperature Door Actuator	_	Lower right side of the instrument panel, attached to the HVAC module	HVAC Case Compo- nents	M6 Air Temperature Door Actuator		
M6B	Air Temperature Door Actuator - Auxiliary	C69	In the left rear of the pas- senger compartment, at- tached to the auxiliary HVAC module	 Auxiliary HVAC Components (C36/C69) Auxiliary HVAC Components (C36/C69) 	M6B Air Temperature Door Actuator - Auxil- iary		
M7	Transmission Shift Lock Control Sole- noid Actuator	_	Attached to the right side of the steering column	Steering Column Components (1 of 2)	M7 Transmission Shift Lock Control Solenoid Actuator		
M8	Blower Motor		Right rear of the engine compartment, attached to the evaporator case	ı	M8 Blower Motor		
M8B	Blower Motor - Auxiliary	C36/C69	In the left rear of the pas- senger compartment, at- tached to the auxiliary HVAC module	ı	M8B Blower Motor - Auxiliary		
M13	Door Latch As- sembly - Rear Cargo	Passenger/Car- go	Attached to the right cargo door latch, in the right cargo door	Rear Door Compo- nents (Passenger or Cargo)	 M13 Door Latch Assembly - Rear Cargo X1 M13 Door Latch Assembly - Rear Cargo X2 		
M14RR	Door Lock Actua- tor - Right Rear	AU3	Attached to the right rear door latch, in the right rear door	Right Side Hinged Door Components (E24) Right Side Sliding Door Components (YA2)	M14RR Door Lock Actuator - Right Rear (E24) M14RR Door Lock Actuator - Right Rear (YA2)		
M37B	Mode Door Actua- tor - Auxiliary	C69	In the left rear of the pas- senger compartment, at- tached to the auxiliary HVAC module	Auxiliary HVAC Components (C36/C69)	M37B Mode Door Ac- tuator - Auxiliary		
M49D	Seat Motor As- sembly - Driver	AG1	Below the left front seat, at- tached to the seat frame	<u>Driver Seat Compo-</u> <u>nents</u>	M49D Seat Motor As- sembly - Driver (AG1)		

Code	Name	Option	Location	Locator View	Connector End View
M49P	Seat Motor As- sembly - Passen- ger	AG2	Below the right front seat, attached to the seat frame	Passenger Seat Components	M49P Seat Motor As- sembly - Passenger (AG2)
M64	Starter Motor	Н	Attached to the lower right rear of the engine	_	 <u>M64 Starter Motor</u> X1 (L8T+TP3) <u>M64 Starter Motor</u> X1 (L8T-TP3) <u>M64 Starter Motor</u> X1 (LV1) <u>M64 Starter Motor</u> X1 (LV1) <u>M64 Starter Motor</u> X2
M74D	Window Motor - Driver	A31	Attached to the interior of the left front door	<u>Driver Door Compo-</u> <u>nents</u>	M74D Window Motor - Driver
M74P	Window Motor - Passenger	A31	Attached to the interior of the right front door	Front Passenger Door Components	M74P Window Motor - Passenger
M75	Windshield Wiper Motor	1	In the left side of the cowl, near the engine compart- ment	Engine Compartment Components (1 of 2)	M75 Windshield Wiper Motor
P3	Backup Alarm	8S3	In the rear of the vehicle on the frame	Rear of Vehicle Com- ponents (Passenger or Cargo)	P3 Backup Alarm (-Cutaway) P3 Backup Alarm (Cutaway)
P13	Horn Assembly	_	In the left front engine com- partment behind the left headlamp	Engine Compartment Components (1 of 2)	P13 Horn Assembly
P16	Instrument Cluster		Attached to the left side of the instrument panel	Instrument Panel Components (1 of 2)	P16 Instrument Clus- ter
P19AG	Speaker - Left Front Door		Attached to the left front door	<u>Driver Door Compo-</u> <u>nents</u>	P19AG Speaker - Left Front Door
P19AH	Speaker - Right Front Door		Attached to the right front door	<u>Front Passenger</u> <u>Door Components</u>	<u>P19AH Speaker -</u> <u>Right Front Door</u>
P19F	Speaker - Left Rear Cargo Door	US8	Attached to the left cargo door	Rear Door Compo- nents (Passenger or <u>Cargo)</u>	P19F Speaker - Left Rear Cargo Door
P19LR	Speaker - Left Rear Roof	Cargo/Passen- ger	In the left rear headliner of the vehicle	Rear Door Compo- nents (Passenger or <u>Cargo)</u>	P19LR Speaker - Left Rear Roof
P19RR	Speaker - Right Rear Roof	Cargo/Passen- ger	In the right rear upper headliner of the vehicle	Rear Door Compo- nents (Passenger or <u>Cargo)</u>	P19RR Speaker - Right Rear Roof
P19T	Speaker - Right Rear Cargo Door	US8	Attached to the right cargo door	Rear Door Compo- nents (Passenger or <u>Cargo)</u>	P19T Speaker - Right Rear Cargo Door
P34D	Side Object De- tection Indicator - Driver	UFT	Internal to the outside rear- view mirror - driver	_	_
P34P	Side Object De- tection Indicator - Passenger	UFT	Internal to the outside rear- view mirror - passenger	_	_
P43	Collision Alert Indicators	UFL	Within the instrument cluster	Instrument Panel Components (1 of 2)	P43 Collision Alert Indicators
Q1A	1-2 Shift Solenoid Valve	MYD	Internal T12 Automatic Transmission Assembly	_	_
Q1B	2-3 Shift Solenoid Valve	MYD	Internal T12 Automatic Transmission Assembly	_	_

			trical Component Lis		Connector End
Code	Name	Option	Location	Locator View	View
Q2	A/C Compressor Clutch	C60	On the front of the A/C compressor lower right front of engine	Front of the Engine Components (LV1) Left Side of the Engine Components (L8T)	Q2 A/C Compressor Clutch
Q6	Camshaft Position Actuator Solenoid Valve		Front of the engine behind the center of the water pump	_	Q6 Camshaft Position Actuator Solenoid Valve
Q8	Control Solenoid Valve Assembly	_	Internal to T12 Automatic Transmission Assembly	Automatic Transmis- sion Internal Electri- cal Components	_
Q12	Evaporative Emission Purge Solenoid Valve	ı	On the top of the engine, rear of the throttle body	Front of the Engine Components (LV1) Right Side of the Engine Components (L8T)	Q12 Evaporative Emission Purge Sole- noid Valve
Q13	Evaporative Emission Vent Solenoid Valve	ı	Attached to the side of the EVAP canister, front of the fuel tank	Frame and Underbody Components (With NE7) Frame and Underbody Components (Without NE7)	Q13 Evaporative Emission Vent Sole- noid Valve
Q17A	Fuel Injector 1	_	On the left side of the intake manifold, at the #1 cylinder intake port	Top of Engine Components (L8T) Top of the Engine Components (LV1)	Q17A Fuel Injector 1
Q17B	Fuel Injector 2	ı	On the right side of the intake manifold, at the #2 cylinder intake port	Top of Engine Components (L8T) Top of the Engine Components (LV1)	Q17B Fuel Injector 2
Q17C	Fuel Injector 3	I	On the left side of the intake manifold, at the #3 cylinder intake port	Top of Engine Components (L8T) Top of the Engine Components (LV1)	Q17C Fuel Injector 3
Q17D	Fuel Injector 4	I	On the right side of the intake manifold, at the #4 cylinder intake port	Top of Engine Components (L8T) Top of the Engine Components (LV1)	Q17D Fuel Injector 4
Q17E	Fuel Injector 5	_	On the left side of the intake manifold, at the #5 cylinder intake port	Top of Engine Components (L8T) Top of the Engine Components (LV1)	Q17E Fuel Injector 5
Q17F	Fuel Injector 6	_	On the right side of the intake manifold, at the #6 cylinder intake port	Top of Engine Components (L8T) Top of the Engine Components (LV1)	Q17F Fuel Injector 6

Code	Name	Option	Location	Locator View	Connector End View
Q17G	Fuel Injector 7	L8T	On the left side of the intake manifold, at the #7 cylinder intake port	Top of Engine Components (L8T)	Q17G Fuel Injector 7 (L8T)
Q17H	Fuel Injector 8	L8T	On the right side of the intake manifold, at the #8 cylinder intake port	Top of Engine Com- ponents (L8T)	Q17H Fuel Injector 8 (L8T)
Q27A	Pressure Control Solenoid Valve 1	MYD	Internal to T12 Automatic Transmission Assembly	_	_
Q27B	Pressure Control Solenoid Valve 2	MYD	Internal to T12 Automatic Transmission Assembly	_	_
Q27C	Pressure Control Solenoid Valve 3	MYD	Internal to T12 Automatic Transmission Assembly	_	_
Q27D	Pressure Control Solenoid Valve 4	MYD	Internal to T12 Automatic Transmission Assembly	_	_
Q27E	Pressure Control Solenoid Valve 5	MYD	Internal to T12 Automatic Transmission Assembly	_	_
Q38	Throttle Body	_	Attached to the center front of the intake manifold	 Front of the Engine Components (LV1) Right Side of the Engine Components (L8T) 	Q38 Throttle Body
Q39A	Torque Converter Clutch Pressure Control Solenoid Valve	MYD	Internal to T12 Automatic Transmission Assembly	_	_
Q44	Engine Oil Pres- sure Control Sole- noid Valve	L8T	In the engine compartment, at the front of the engine, behind the front cover	Right Side of the Engine Components (L8T)	Q44 Engine Oil Pressure Control Solenoid Valve (L8T)
Q77A	Transmission Control Solenoid Valve 1	M5U	Under the vehicle, internal to the Transmision Assembly	_	Q77A Transmission Control Solenoid Valve 1 (M5U)
Q77B	Transmission Control Solenoid Valve 2	M5U	Under the vehicle, internal to the Transmision Assembly	_	Q77B Transmission Control Solenoid Valve 2 (M5U)
Q77C	Transmission Control Solenoid Valve 3	M5U	Under the vehicle, internal to the Transmision Assembly	_	Q77C Transmission Control Solenoid Valve 3 (M5U)
Q77D	Transmission Control Solenoid Valve 4	M5U	Under the vehicle, internal to the Transmision Assembly	_	Q77D Transmission Control Solenoid Valve 4 (M5U)
Q77E	Transmission Control Solenoid Valve 5	M5U	Under the vehicle, internal to the Transmision Assembly	_	Q77E Transmission Control Solenoid Valve 5 (M5U)
Q77F	Transmission Control Solenoid Valve 6	M5U	Under the vehicle, internal to the Transmision Assembly	_	Q77F Transmission Control Solenoid Valve 6 (M5U)
Q77G	Transmission Control Solenoid Valve 7	M5U	Under the vehicle, internal to the Transmision Assembly	_	Q77G Transmission Control Solenoid Valve 7 (M5U)
Q77H	Transmission Control Solenoid Valve 8	M5U	Under the vehicle, internal to the Transmision Assembly	_	Q77H Transmission Control Solenoid Valve 8 (M5U)
Q77J	Transmission Control Solenoid Valve 9	M5U	Under the vehicle, internal to the Transmision Assembly	_	Q77J Transmission Control Solenoid Valve 9 (M5U)
R3	Blower Motor Resistor	_	Right rear of the engine compartment, attached to the evaporator case	Engine Compartment Components (1 of 2)	R3 Blower Motor Re- sistor

			The component Lis		Connector End
Code	Name	Option	Location	Locator View	View
R3B	Blower Motor Resistor - Auxiliary	C36/C69	In the left rear of the pas- senger compartment, at- tached to the auxiliary HVAC module	Auxiliary HVAC Components (C36/C69)	R3B Blower Motor Resistor - Auxiliary
R6A	Terminating Resistor - High Speed Bus	_	In the engine compartment	Engine Compart- ment Components (1 of 2) Engine Harness Routing - Front (LV1)	R6A Terminating Resistor - High Speed Bus
S2	Transmission Manual Shift Switch	_	Mounted on the shift lever, extending from the right side of the steering column	_	S2 Transmission Manual Shift Switch
S13A	Door Lock Switch - Rear Cargo	Passenger/Car- go with AU3	Attached to the right cargo door accessory mount plate	Rear Door Compo- nents (Passenger or <u>Cargo)</u>	S13A Door Lock Switch - Rear Cargo
S13D	Door Lock Switch - Driver	AU3	Attached to the left front door accessory mount plate	<u>Driver Door Compo-</u> <u>nents</u>	S13D Door Lock Switch - Driver
S13P	Door Lock Switch - Passenger	AU3	Attached to the right front door accessory mount plate	Front Passenger Door Components	S13P Door Lock Switch - Passenger
S16	Driver Information Center Switch	_	On the dash, just to the left of P16 Instrument Cluster	Instrument Panel Components (1 of 2)	S16 Driver Information Center Switch
S30	Headlamp Switch	_	At the left side of the instrument panel	Instrument Panel Components (1 of 2)	<u>S30 Headlamp</u> <u>Switch</u>
S33	Horn Switch	_	Inside the upper steering column, behind the inflatable restraint steering wheel module	Steering Column Components (1 of 2)	S33 Horn Switch
S34	HVAC Controls Switch Assembly		In the center of the instru- ment panel	Instrument Panel Components (1 of 2)	S34 HVAC Controls Switch Assembly X1 S34 HVAC Controls Switch Assembly X2 S34 HVAC Controls Switch Assembly X3 S34 HVAC Controls Switch Assembly X3 S34 HVAC Controls Switch Assembly X4
\$34F	HVAC Controls Switch Assembly - Auxiliary Front	C36/C69	On the front of the over- head console	<u>Headliner Compo-</u> nents - Front	S34F HVAC Controls Switch Assembly - Auxiliary Front (With Rear HVAC Controls) S34F HVAC Controls Switch Assembly - Auxiliary Front (Without Rear HVAC Controls)
S34R	HVAC Controls Switch Assembly - Auxiliary Rear	C36/C69 with Rear HVAC Controls	In the headliner, near the center of the vehicle	<u>Headliner Compo-</u> <u>nents - Rear</u>	S34R HVAC Controls Switch Assembly - Auxiliary Rear
S39	Ignition Switch	_	On the right side of the steering column	Steering Column Components (1 of 2)	S39 Ignition Switch
S40	Passenger Air Bag Disable Switch	C99	In the center of the instru- ment panel	Instrument Panel Components (1 of 2)	S40 Passenger Air Bag Disable Switch

Code	Name	Option	Location	Locator View	Connector End View
S51	Telematics Button Assembly	UE1	In the center of the instru- ment panel, just below the radio	Instrument Panel Components (1 of 2)	S51 Telematics But- ton Assembly
S52	Outside Rearview Mirror Switch	DE5	Attached to the left front door accessory mount plate	<u>Driver Door Compo-</u> <u>nents</u>	S52 Outside Rear- view Mirror Switch
S64D	Seat Adjuster Switch - Driver	AG1	Attached to the front panel of the driver seat	<u>Driver Seat Compo</u> <u>nents</u>	S64D Seat Adjuster Switch - Driver (AG1)
S64P	Seat Adjuster Switch - Passen- ger	AG2	Attached to the front panel of the front passenger seat	Passenger Seat Components	S64P Seat Adjuster Switch - Passenger (AG2)
S70L	Steering Wheel Controls Switch - Left	K34	On the left steering wheel spoke	_	S70L Steering Wheel Controls Switch - Left (K34)
S70R	Steering Wheel Controls Switch - Right	W1Y	On the right steering wheel spoke	_	S70R Steering Wheel Controls Switch - Right (W1Y)
S74	Tow/Haul Mode Switch	MYD	In the center of the instrument panel	Instrument Panel Components (1 of 2)	S74 Tow/Haul Mode Switch
S75	Traction Control Switch		In the center of the instru- ment panel	_	S75 Traction Control Switch
S78	Turn Signal/Multi- function Switch		On the left side of the steering column	Steering Column Components (1 of 2)	S78 Turn Signal/ Multifunction Switch X1 S78 Turn Signal/ Multifunction Switch X2 S78 Turn Signal/ Multifunction Switch X3
S79D	Window Switch - Driver	A31	Attached to the left front door accessory mount plate	<u>Driver Door Compo-</u> <u>nents</u>	S79D Window Switch - Driver
S79P	Window Switch - Passenger	A31	Attached to the right front door accessory mount plate	Front Passenger Door Components	S79P Window Switch - Passenger
S85	Auxiliary Blower Motor Switch	C36/C69	In the center of the instru- ment panel	_	S85 Auxiliary Blower Motor Switch (C36)
S155	Lane Departure Warning Switch	UFL	Near the center of the instrument panel, below the radio	Instrument Panel Components (1 of 2)	S155 Lane Departure Warning Switch
T1	Accessory DC/AC Power Inverter Module	KI4	Attached to the Instrument Panel Harness	Instrument Panel Components (2 of 2)	T1 Accessory DC/AC Power Inverter Mod- ule
T4M	Radio Antenna	_	Mounted on top of the right front fender, adjacent to the hood	Right Rear of the Engine Compartment Components	T4M Radio Antenna
T4S	Wireless Commu- nication Antenna - Bluetooth	UE1	Internal to K73 Telematics Communication Interface Control Module	_	_
T8A	Ignition Coil 1	_	On the left rocker cover center at cylinder 1	Right Side of the Engine Components (L8T) Top of the Engine Components (LV1)	T8A Ignition Coil 1

	Master Electrical Component List (cont d)						
Code	Name	Option	Location	Locator View	Connector End View		
T8B	Ignition Coil 2	_	On the right rocker cover center at cylinder 2	Left Side of the Engine Components (L8T) Top of the Engine Components (LV1) Left Side of the Engine Components	T8B Ignition Coil 2		
T8C	Ignition Coil 3	_	On the left rocker cover center at cylinder 3	Right Side of the Engine Components (L8T) Top of the Engine Components (LV1)	T8C Ignition Coil 3		
T8D	Ignition Coil 4	_	On the right rocker cover center at cylinder 4	Left Side of the Engine Compo- nents (L8T) Top of the Engine Components (LV1)	T8D Ignition Coil 4		
T8E	Ignition Coil 5	_	On the left rocker cover center at cylinder 5	Right Side of the Engine Components (L8T) Top of the Engine Components (LV1)	T8E Ignition Coil 5		
T8F	Ignition Coil 6	_	On the right rocker cover center at cylinder 6	Left Side of the Engine Components (L8T) Top of the Engine Components (LV1) Left Side of the Engine Components	T8F Ignition Coil 6		
T8G	Ignition Coil 7	L8T	On the left rocker cover rear at cylinder 7	Right Side of the Engine Components (L8T)	T8G Ignition Coil 7		
T8H	Ignition Coil 8	L8T	On the right rocker cover rear at cylinder 8	Left Side of the Engine Components (L8T)	T8H Ignition Coil 8		
T12	Automatic Trans- mission Assembly	_	Under the vehicle attached to the rear of the engine	Left Side of the Engine Components (L8T)	T12 Automatic Trans- mission Assembly		
T35X	Radio Antenna - XM	U2K	On the roof top above the driver side	_	_		
W8	Blunt Cut - Trailer Provision	UY7	Behind the instrument panel, near the steering column	Chassis Harness Routing - Under- body (Cutaway) (NE7) Instrument Panel Harness Routing - Driver Side	_		
W12	Blunt Cut - Emer- gency Vehicle Provision	YF1	Near the instrument panel	_	_		
W22	Blunt Cut - Rear Speaker Provision	CUTAWAY with YF1	Near the instrument panel	Body Harness Rout- ing - Left Front Pas- senger Compartment (Cutaway)	_		
W25	Blunt Cut - Configurable Provision	9L7	Near the instrument panel	_	_		
X50A	Fuse Block - Underhood	_	In the engine compartment, attached to the left front fender	Engine Compartment Components (1 of 2)	Electrical Center Identification Views on page 6-16		

	waster Electrical Component List (cont d)						
Code	Name	Option	Location	Locator View	Connector End View		
X50B	Fuse Block - Underhood Auxili- ary	ı	In the engine compartment	Engine Compartment Components (9L7)	Electrical Center Identification Views on page 6-16		
X52A	Fuse Block - Pas- senger Compart- ment	_	Below the driver seat	Passenger Compart- ment Components	Electrical Center Identification Views on page 6-16		
X53A	Fuse Block - Rear Body	PRP	Within the cargo area	_	Electrical Center Identification Views on page 6-16		
X55U	Fuse Holder - Starter	ı	In the engine compartment, passenger side, near the battery	_	Electrical Center Identification Views on page 6-16		
X80A	Accessory Power Receptacle - Cen- ter Console 1	ı	In the center of the instru- ment panel	Instrument Panel Components (1 of 2)	X80A Accessory Power Receptacle - Center Console 1		
X80B	Accessory Power Receptacle - Cen- ter Console 2	ı	In the right center of the instrument panel	Instrument Panel Components (1 of 2)	X80B Accessory Power Receptacle - Center Console 2		
X81	Accessory Power Receptacle - 110V AC	KI4	Within the passenger compartment	Instrument Panel Components (1 of 2)	X81 Accessory Power Receptacle - 110V AC X1 X81 Accessory Power Receptacle - 110V AC X2		
X84	Data Link Con- nector	_	Left lower side of the instru- ment panel, near the park brake pedal assembly	Instrument Panel Components (1 of 2) Instrument Panel Components (1 of 2) Z	X84 Data Link Con- nector		
X85	Steering Wheel Air Bag Coil	I	Inside the upper steering column	_	 X85 Steering Wheel Air Bag Coil X1 X85 Steering Wheel Air Bag Coil X2 X85 Steering Wheel Air Bag Coil X3 		
X87RB	Sliding Door Jamb Contact Plate - Right Body	AU3 with E24/ YA2	Attached to the right B-pil- lar	Passenger Compartment Components Right Side Hinged Door Components (E24) Right Side Sliding Door Components (YA2)	X87RB Sliding Door Jamb Contact Plate - Right Body (Body) X87RB Sliding Door Jamb Contact Plate - Right Body (Door)		
X88	Trailer Connector	UY7	Below the rear bumper, near the center	Rear of Vehicle Com- ponents (Passenger or Cargo)	X88 Trailer Con- nector (-NE7) X88 Trailer Con- nector (NE7)		
X92	USB Receptacle	USR	Slightly below and to the right of A11 Radio	Instrument Panel Components (1 of 2)	X92 USB Receptacle		

Codo	Name		Leastier		Connector End
X100	Instrument Panel Wiring Harness to Engine Wiring Harness	Option	Location Left rear of the engine compartment near the underhood fuse block and the horn	Locator View Engine Harness Routing - Front (L8T) Engine Harness Routing - Front (LV1) Instrument Panel Harness Routing - Engine Compart- ment	X100 Instrument Panel Wiring Harness to Engine Wiring Harness
X101	Engine Wiring Harness to Chas- sis Wiring Har- ness	_	Left rear of the engine compartment behind the underhood fuse block	Chassis Harness Routing - Underbody (Cutaway) (NE7) Chassis Harness Routing - Underbody (Cutaway) (-NE7) Chassis Harness Routing - Underbody (Passenger or Cargo with LWB) Chassis Harness Routing - Underbody (Passenger or Cargo with SWB) Engine Harness Routing - Front (L8T) Engine Harness Routing - Front (LV1)	X101 Engine Wiring Harness to Chassis Wiring Harness
X102	Chassis Wiring Harness to Fuel Tank Wiring Har- ness	_	Under the vehicle, near the fuel tank	Chassis Harness Routing - Underbody (Cutaway) (NE7) Chassis Harness Routing - Underbody (Cutaway) (-NE7) Chassis Harness Routing - Underbody (Passenger or Cargo with LWB) Chassis Harness Routing - Underbody (Passenger or Cargo with SWB) Engine Harness Routing - Front (LV1)	X102 Chassis Wiring Hamess to Fuel Tank Wiring Harness
X103	Engine Wiring Harness to Starter Motor Jumper Wiring Harness	_	In the engine compartment, right rear of engine block, near the starter	Engine Harness Routing - Rear (L8T) Engine Harness Routing - Rear (LV1)	X103 Engine Wiring Harness to Starter Motor Jumper Wiring Harness

master Electrical Component List (Cont a)						
Code	Name	Option	Location	Locator View	Connector End View	
X104	Instrument Panel Wiring Harness to Air Bag Jumper Wiring Harness		Instrument Panel wiring harness to Air Bag Jumper wiring harness, bottom left side of the radiator support	Instrument Panel Harness Routing - Engine Compartment	X104 Instrument Panel Wiring Harness to Air Bag Jumper Wiring Harness	
X109	Engine Wiring Harness to Under- hood Lamp Wiring Harness	TR9	Engine wiring harness to Underhood Lamp wiring harness, left rear of the en- gine compartment	 Engine Harness Routing - Front (L8T) Engine Harness Routing - Front (LV1) 	X109 Engine Wiring Harness to Under- hood Lamp Wiring Harness	
X130	Engine Wiring Harness to Cam- shaft Position Sensor Jumper Wiring Harness	Ι	In the engine compartment, on the left rear side of en- gine block	 Engine Harness Routing - Front (L8T) Engine Harness Routing - Front (LV1) 	X130 Engine Wiring Harness to Camshaft Position Sensor Jumper Wiring Har- ness	
X135	Engine Jumper Wiring Harness to Oil Pump Flow Control Solenoid Valve Wire Wiring Harness	L8T	In the engine compartment, on the left rear side of en- gine block	Engine Harness Routing - Front (L8T)	X135 Engine Jumper Wiring Harness to Oil Pump Flow Control Solenoid Valve Wire Wiring Harness (L8T)	
X141	Instrument Panel Wiring Harness to Brake Fluid Level Indicator Wiring Harness	UJ1	Instrument panel wiring harness to the brake fluid alarm switch jumper wiring harness, left rear of the engine compartment near the cowl	Brake Booster Fluid Alarm Switches (UJ1) Instrument Panel Harness Routing - Engine Compart- ment	X141 Instrument Panel Wiring Harness to Brake Fluid Level Indicator Wiring Har- ness	
X150	Instrument Panel Wiring Harness to Forward Lamp Wiring Harness	I	Instrument panel wiring harness to the forward lamp wiring harness, near the upper radiator hose at the radiator entry point	Forward Lamp Har- ness Routing	X150 Instrument Panel Wiring Harness to Forward Lamp Wiring Harness	
X155	Engine Wiring Harness to Engine Coolant Tempera- ture Sensor Wir- ing Harness	П	Engine wiring harness to Engine Oil Pressure Sen- sor Jumper wiring harness, in the engine compartment, left front of the engine, near the power steering pump	Engine Harness Routing - Front (L8T)	X155 Engine Wiring Harness to Engine Coolant Temperature Sensor Wiring Har- ness (L8T)	
X160	Engine Wiring Harness to Fuel Injector Wiring Harness	l	In the engine compartment, rear of the engine near the top center	Engine Harness Routing - Rear (L8T) Engine Harness Routing - Rear (LV1) Fuel Injector Harness Routing (LV1)	 X160 Engine Wiring Harness to Fuel Injector Wiring Harness (L8T) X160 Engine Wiring Harness to Fuel Injector Wiring Harness (LV1) 	
X161	Engine Wiring Harness to Fuel Injector Wiring Harness	_	In the engine compartment, rear of the engine near the top right	 Engine Harness Routing - Rear (L8T) Engine Harness Routing - Rear (LV1) Fuel Injector Harness Routing (LV1) 	X161 Engine Wiring Harness to Fuel Injector Wiring Harness (L8T) X161 Engine Wiring Harness to Fuel Injector Wiring Harness (LV1)	
X175	Engine Wiring Harness to Auto- matic Transmis- sion Wiring Harness	M5U	Engine wiring harness to the transmission jumper wiring harness	Engine Harness Routing - Rear (LV1)	X175 Engine Wiring Harness to Automatic Transmission Wiring Harness (M5U)	

Code	Name	Option	Location	Locator View	Connector End View
X176	Automatic Trans- mission Wiring Harness to Auto- matic Transmis- sion Wiring Harness (M5U)	M5U	Internal to the transmission	_	X176 Automatic Transmission Wiring Harness to Automatic Transmission Wiring Harness (M5U)
X178	Automatic Trans- mission Wiring Harness to Auto- matic Transmis- sion Output Speed Sensor Wiring Harness	M5U	Transmission wiring harness to the transmission speed sensor wiring harness	_	X178 Automatic Transmission Wiring Harness to Automatic Transmission Output Speed Sensor Wiring Harness (M5U)
X185	Instrument Panel Wiring Harness to Chassis Wiring Harness		In the engine compartment, near the X50A fuse block - underhood	Chassis Harness Routing - Underbody (Cutaway) (NET) Chassis Harness Routing - Underbody (Cutaway) (-NET) Chassis Harness Routing - Underbody (Passenger or Cargo with LWB) Chassis Harness Routing - Underbody (Passenger or Cargo with SWB) Instrument Panel Harness Routing - Engine Compartment	X185 Instrument Panel Wiring Harness to Chassis Wiring Harness
X190	Accessory Wiring Harness to Acces- sory Power Fuse Block Rear Wiring Harness Exten- sion Harness	ı	In the engine compartment	Upfitter Provision Harness Routing - Engine Compartment (9L7)	X190 Accessory Wir- ing Harness to Ac- cessory Power Fuse Block Rear Wiring Harness Extension Harness
X200	Steering Wheel Air Bag Coil Jumper Wiring Harness to Instru- ment Panel Wiring Harness	_	Steering column wiring har- ness to the instrument pan- el wiring harness, at the base of the steering column	Instrument Panel Harness Routing - Rear of Instru- ment Panel Steering Column Harness Routing	X200 Steering Wheel Air Bag Coil Jumper Wiring Harness to In- strument Panel Wir- ing Harness
X202	Instrument Panel Wiring Harness to Engine Wiring Harness	_	Instrument panel wiring harness to engine wiring harness, about 8.8 inches (225 mm) from I/P underhood break out after pass through grommet	Engine Harness Routing - Front (L8T) Instrument Panel Harness Routing - Engine Compart- ment	X202 Instrument Panel Wiring Harness to Engine Wiring Har- ness
X204	Body Wiring Har- ness to Roof Con- sole Wiring Harness	_	Body wiring harness to headliner wiring harness,	Body Harness Routing - Right Front Passenger Compartment Roof Harness Routing - Front	X204 Body Wiring Harness to Roof Con- sole Wiring Harness

Code	Name	Option	Location	Locator View	Connector End View
X205	Roof Console Wir- ing Harness to Body Wiring Har- ness	_	Front headliner wiring har- ness to the body wiring har- ness, behind the A-pillar	Body Harness Routing - Right Front Passenger Compartment Roof Harness Routing - Front	X205 Roof Console Wiring Harness to Body Wiring Harness
X206	Instrument Panel Wiring Harness to Instrument Panel Wiring Harness	ı	Instrument Panel wiring harness to Instrument Panel wiring harness, left side of the instrument panel near the headlamp switch	Instrument Panel Harness Routing - Rear of Instrument Panel	X206 Instrument Panel Wiring Harness to Instrument Panel Wiring Harness
X220	Instrument Panel Wiring Harness to Park Brake Switch Jumper Wiring Harness	l	Instrument panel wiring harness to the parking brake jumper wiring harness, left side of the instrument panel, center of the parking brake pedal assembly	Instrument Panel Harness Routing - Driver Side	X220 Instrument Panel Wiring Harness to Park Brake Switch Jumper Wiring Har- ness
X221	Instrument Panel Wiring Harness to Antenna Wiring Harness	_	Instrument Panel Wiring Harness to Antenna Wiring Harness, behind the pas- senger kick panel	Instrument Panel Harness Routing - Rear of Instrument Panel	X221 Instrument Panel Wiring Harness to Antenna Wiring Harness
X225	Accelerator Control Wiring Harness to Instrument Panel Wiring Harness	I	Accelerator Pedal Position (APP) Jumper wiring harness to Instrument Panel wiring harness, located between Accelerator Pedal Position (APP) sensor and Instrument Panel wiring harness	Instrument Panel Harness Routing - Rear of Instrument <u>Panel</u>	X225 Accelerator Control Wiring Har- ness to Instrument Panel Wiring Har- ness
X289	Side Access Pan- el Wiring Harness to Instrument Pan- el Wiring Harness	PRP	Inside the vehicle, towards the left front	Body Harness Rout- ing - Left Front Pas- senger Compartment (Cutaway)	X289 Side Access Panel Wiring Harness to Instrument Panel Wiring Harness
X290	Instrument Panel Wiring Harness to Side Access Pan- el Wiring Harness	PRP	Inside the vehicle, towards the left front	_	X290 Instrument Panel Wiring Harness to Side Access Panel Wiring Harness
X291	Accessory Power Fuse Block Rear Wiring Harness Extension Har- ness to Accessory Power Fuse Block Rear Wiring Har- ness Extension Harness	_	In the engine compartment	Upfitter Provision Harness Routing - Engine Compartment (9L7)	X291 Accessory Power Fuse Block Rear Wiring Harness Extension Harness to Accessory Power Fuse Block Rear Wir- ing Harness Exten- sion Harness
X306	Body Wiring Har- ness to Seat Wir- ing Harness - Passenger	_	Body wiring harness to the front passenger seat wiring harness, right side of the passenger compartment below the passenger seat	Body Harness Routing - Right Front Passenger Compartment Driver Seat Harness Routing and Front Passenger Seat Harness Routing Passenger Seat Components	X306 Body Wiring Harness to Seat Wir- ing Harness - Pas- senger

0-1-	Nama		Leasting		Connector End
X307	Body Wiring Harness to Seat Wiring Harness - Driver	Option	Body wiring harness to the driver seat wiring harness, left side of the passenger compartment below the driver seat	• Body Harness Routing - Left Front Passenger Compartment (Cargo) • Body Harness Routing - Left Front Passenger Compartment (Passenger) • Driver Seat Components • Driver Seat Harness Routing and Front Passenger Seat Harness Routing	X307 Body Wiring Harness to Seat Wir- ing Harness - Driver
X318	Instrument Panel Wiring Harness to Body Wiring Har- ness	_	Instrument panel wiring harness to the body wiring harness, behind the left kick panel	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Front Passenger Compartment (Passenger) Instrument Panel Harness Routing - Driver Side	X318 Instrument Panel Wiring Harness to Body Wiring Har- ness
X319	Auxiliary Heater Front Wiring Har- ness to Body Wir- ing Harness	ENC/C69/C36	Rear heater switch wiring harness to the body wiring harness, behind the left kick panel	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Front Passenger Compartment (Compartment (Passenger)	X319 Auxiliary Heat- er Front Wiring Har- ness to Body Wiring Harness
X323	Airbag Wiring Har- ness to Body Wir- ing Harness	ASF	At the base of the left C-pillar	Body Harness Rout- ing - Left Front Pas- senger Compartment (Passenger)	X323 Airbag Wiring Harness to Body Wir- ing Harness
X324	Airbag Wiring Har- ness to Body Wir- ing Harness	ASF	At the base of the right C- pillar	Body Harness Rout- ing - Right Rear Pas- senger Compartment (Cargo/Passenger)	X324 Airbag Wiring Harness to Body Wir- ing Harness

Code	Name	Option	Location	Locator View	Connector End View
X329	Instrument Panel Wiring Harness to Body Wiring Har- ness	UVC	Instrument panel wiring harness to the body wiring harness, in the passenger compartment under the driver seat	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Front Passenger Compartment (Passenger) Instrument Panel Harness Routing - Driver Side	X329 Instrument Panel Wiring Harness to Body Wiring Har- ness
X330	Instrument Panel Wiring Harness to Body Wiring Har- ness	_	Instrument panel wiring harness to the body wiring harness, under the driver seat	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Front Passenger Compartment (Passenger) Instrument Panel Harness Routing - Driver Side	X330 Instrument Panel Wiring Harness to Body Wiring Har- ness
X331	Instrument Panel Wiring Harness to Body Wiring Har- ness	_	Instrument panel wiring harness to the body wiring harness, under the driver seat	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Front Passenger Compartment (Passenger) Instrument Panel Harness Routing - Driver Side	X331 Instrument Panel Wiring Harness to Body Wiring Har- ness
X400	Rear Door Door Wiring Harness to Body Wiring Har- ness	Passenger/Car- go	Right cargo door wiring har- ness to the body wiring har- ness, right rear of the passenger compartment center of the right D-pillar	Body Harness Routing - Right Rear Passenger Compartment (Cargo/Passenger) Door Harness Routing - Passenger Rear (Passenger or Cargo)	X400 Rear Door Door Wiring Harness to Body Wiring Harness

	waster Electrical Component List (cont d)						
Code	Name	Option	Location	Locator View	Connector End View		
X403	Rear Door Door Wiring Harness to Body Wiring Har- ness	UVC	Rear cargo door wiring harness to body wiring harness,	Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Right Rear Passenger Compartment (Cargo/Passenger) Door Harness Routing - Passenger Rear (Passenger) Gray - Passenger Corgo)	X403 Rear Door Door Wiring Har- ness to Body Wir- ing Harness (-Cutaway) X403 Rear Door Door Wiring Har- ness to Body Wir- ing Harness (Cutaway)		
X405	Chassis Wiring Harness to Chassis Wiring Harness	Cutaway	Cutaway rear lighting con- nector to the chassis wiring harness, left rear frame rail	Chassis Harness Routing - Under- body (Cutaway) (NE7) Chassis Harness Routing - Under- body (Cutaway) (-NE7)	X405 Chassis Wiring Harness to Chassis Wiring Harness (-Cut-away) X405 Chassis Rear Wiring Harness Extension Harness to Chassis Wiring Harness (Cutaway)		
X407	Auxiliary Heater and Air Condition- ing Wiring Har- ness to Body Wiring Harness	C36/C69	Rear HVAC wiring harness to the body wiring harness, left rear of the passenger compartment upper back side of the auxiliary HVAC module at the D-pillar	Auxiliary HVAC Harness Routing - Left Rear Passen- ger Compartment (C36/C69) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Rear Passenger Compartment (Cargo) Body Harness Routing - Left Rear Passenger Compartment (Cargo) Body Harness Routing - Left Rear Passenger Compartment (Passenger)	X407 Auxiliary Heater and Air Conditioning Wiring Harness to Body Wiring Harness		
X408	Rear Object Alarm Sensor Wiring Harness to Chas- sis Wiring Har- ness	UD7/UFT	Rear bumper wiring har- ness to chassis wiring har- ness,	Chassis Harness Routing - Underbody (Passenger or Cargo with LWB) Chassis Harness Routing - Underbody (Passenger or Cargo with SWB) Rear Bumper Harness Routing	X408 Rear Object Alarm Sensor Wiring Harness to Chassis Wiring Harness		

Code	Name	Option	Location	Locator View	Connector End View
X409	Auxiliary Heater and Air Condition- ing Wiring Har- ness to Body Wiring Harness	C36/C69	Rear HVAC wiring harness to body wiring harness, left rear of the passenger com- partment upper back side of the auxiliary HVAC mod- ule	Auxiliary HVAC Harness Routing - Left Rear Passen- ger Compartment (C36/C69) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Rear Passenger Compartment (Cargo) Body Harness Routing - Left Rear Passenger Compartment (Cargo) Body Harness Routing - Left Rear Passenger Compartment (Cassenger)	X409 Auxiliary Heater and Air Conditioning Wiring Hamess to Body Wiring Harness
X410	Tail Lamp Wiring Harness to Body Wiring Harness	Passenger/Car- go	Left Tail Lamp Assembly wiring harness to Body wir- ing harness, left rear of the passenger compartment at the D-pillar	Body Harness Routing - Left Rear Passenger Compartment (Cargo) Body Harness Routing - Left Rear Passenger Compartment (Passenger)	X410 Tail Lamp Wir- ing Harness to Body Wiring Harness
X411	Rear Door Door Wiring Harness - Left to Body Wir- ing Harness	Passenger/Car- go	Left cargo door wiring har- ness to the body wiring har- ness, left rear of the passenger compartment center of the left D-pillar	Body Harness Routing - Left Rear Passenger Compartment (Cargo) Body Harness Routing - Left Rear Passenger Compartment (Passenger) Door Harness Routing - Driver Rear (Passenger or Cargo)	X411 Rear Door Door Wiring Harness - Left to Body Wiring Har- ness
X412	Rear Door Door Wiring Harness to Body Wiring Har- ness	Passenger/Car- go	Right cargo door wiring harness to the body wiring harness, right rear of the passenger compartment center of the right D-pillar	 Body Harness Routing - Right Rear Passenger Compartment (Cargo/Passenger) Door Harness Routing - Passenger Rear (Passenger or Cargo) 	X412 Rear Door Door Wiring Harness to Body Wiring Harness
X415	Radio Rear Speaker Wiring Harness to Body Wiring Harness	Passenger/Car- go	Rear overhead speakers jumper wiring harness to the body wiring harness, rear of the passenger com- partment center of the rear roof rail	Body Harness Rout- ing - Right Rear Pas- senger Compartment (Cargo/Passenger)	X415 Radio Rear Speaker Wiring Har- ness to Body Wiring Harness

	Connector End						
Code	Name	Option	Location	Locator View	View		
X419	Center High Mounted Stop Lamp Jumper Wir- ing Harness to Body Wiring Har- ness	Passenger/Car- go	CHMSL wiring harness to the body wiring harness, rear of the passenger com- partment center of the rear roof rail	 Body Harness Routing - Left Rear Passenger Compartment (Cargo) Body Harness Routing - Left Rear Passenger Compartment (Passenger) 	X419 Center High Mounted Stop Lamp Jumper Wiring Har- ness to Body Wiring Harness		
X420	Tail Lamp Wiring Harness to Body Wiring Harness	Passenger/Car- go	Right Tail Lamp Assembly wiring harness to Body wir- ing harness, right rear of the passenger compart- ment at the D-pillar	Body Harness Rout- ing - Right Rear Pas- senger Compartment (Cargo/Passenger)	X420 Tail Lamp Wir- ing Harness to Body Wiring Harness		
X421	Roof Console Wir- ing Harness to Body Wiring Har- ness	_	Body wiring harness to rear headliner wiring harness	 Body Harness Routing - Right Rear Passenger Compartment (Cargo/Passenger) Roof Harness Routing - Rear 	X421 Roof Console Wiring Harness to Body Wiring Harness		
X450	Trailer Jumper Wiring Harness to Chassis Wiring Harness	NE7	Trailer Jumper Wiring Har- ness to Chassis Wiring Harness, at the rear of the vehicle	_	X450 Trailer Jumper Wiring Harness to Chassis Wiring Har- ness (NE7)		
X460	Chassis Wiring Harness to Chassis Wiring Harness	Cutaway with UY7 and NE7	Trailer Provision to Chassis wiring harness, in rear near Trailer wiring harness	Chassis Harness Routing - Underbody (Cutaway) (NE7)	X460 Chassis Wiring Harness to Chassis Wiring Harness		
X500	Front Side Door Door Wiring Har- ness - Driver to Body Wiring Har- ness	_	Driver door wiring harness to the body wiring harness, behind the left kick panel	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Front Passenger Compartment (reassenger) Door Harness Routing - Driver Door	X500 Front Side Door Door Wiring Hamess - Driver to Body Wir- ing Harness		
X501	Airbag Wiring Har- ness to Front Side Door Door Wiring Harness - Driver	ASF	Driver side impact sensor wiring harness to the driver door wiring harness, in the driver door behind the trim panel	<u>Door Harness Rout-ing - Driver Door</u>	X501 Airbag Wiring Harness to Front Side Door Door Wir- ing Harness - Driver		
X600	Front Side Door Door Wiring Har- ness - Passenger to Body Wiring Harness	_	Passenger door wiring har- ness to the body wiring har- ness, behind the right kick panel	Body Harness Routing - Right Front Passenger Compartment Door Harness Routing - Passenger Door	X600 Front Side Door Door Wiring Harness - Passenger to Body Wiring Harness		

Code	Name	Option	Location	Locator View	Connector End View
X601	Side Impact Sensor - Right Front Jumper Wiring Harness to Front Side Door Door Wiring Harness - Passenger	ASF	Passenger side impact sensor wiring harness to the passenger door wiring harness, in the passenger door behind the trim panel	Door Harness Rout- ing - Passenger Door	X601 Side Impact Sensor - Right Front Jumper Wiring Har- ness to Front Side Door Door Wiring Harness - Passenger
X901	Rear Window De- fogger Wiring Har- ness to Rear Door Door Wiring Har- ness - Left	C49	Rear window defogger jumper wiring harness to the left cargo door wiring harness, in the left cargo door	Door Harness Rout- ing - Driver Rear (Passenger or Cargo)	X901 Rear Window Defogger Wiring Har- ness to Rear Door Door Wiring Harness - Left
X902	Rear Window De- fogger Wiring Har- ness to Rear Door Door Wiring Har- ness	C49	Rear window defogger jumper wiring harness to the right cargo door wiring harness, in the right cargo door	Door Harness Rout- ing - Passenger Rear (Passenger or Cargo)	X902 Rear Window Defogger Wiring Har- ness to Rear Door Door Wiring Harness
G100	Forward Lamp Wiring Harness	_	Left front of the engine compartment, attached to the front of the left fender	G100 and G101	_
G101	Forward Lamp Wiring Harness	_	Right front of the engine compartment, attached near the front of the right fender	G100 and G101	_
G102	Engine Wiring Harness	_	Rear of the engine com- partment, left rear of the en- gine on the left cylinder head	• G102 and G103 (L8T) • G102 and G103 (LV1)	_
G103	Engine Wiring Harness	-	Rear of the engine com- partment, left rear of the en- gine on the left cylinder head	• G102 and G103 (L8T) • G102 and G103 (LV1)	_
G104	Negative Battery Cable		Mounted on the engine, extending towards the battery	• <u>G104 (L8T)</u> • <u>G104 (LV1)</u>	_
G105	Negative Battery Cable	ı	Front of the engine compartment, right front of the inner frame rail	<u>G105 and G106</u>	
G106	Negative Battery Cable	1	Front of the engine compartment, right front fender	<u>G105 and G106</u>	1
G107	Engine Wiring Harness	LV1	Rear of the engine com- partment, right rear of the engine on the right cylinder head	<u>G107 and G108</u> (<u>LV1)</u>	1
G108	Engine Wiring Harness	ı	Rear of the engine com- partment, left rear of the en- gine on the left cylinder head	<u>G107 and G108</u> (<u>LV1)</u>	_
G109	Accessory Wiring Harness	9L7	In the engine compartment, passenger side, attached to the inner fender	<u>G109 (9L7)</u>	_
G300	Chassis Wiring Harness	_	Left side outer frame, rear of the front tire, near the body mount	G300 and G404 (Passenger or Cargo)	_
G301	Instrument Panel		Left front of the passenger compartment, behind the kick panel next to G302	G301 and G302	_
G302	Instrument Panel	_	Left front of the passenger compartment, behind the kick panel next to G301	G301 and G302	_

Code	Name	Option	Location	Locator View	Connector End View
G304	Instrument Panel	_	Right front of the passen- ger compartment, behind the kick panel	<u>G304</u>	_
G305	Auxiliary Battery Negative Cable	TP3	Left center outer frame rail, near the auxiliary battery	<u>G305</u>	_
G347	Body Wiring Har- ness	_	Left side of the passenger compartment, lower left B-pillar part of JX347	_	_
G348	Body Wiring Har- ness	_	Right side of the passenger compartment, lower right B-pillar part of JX348		-
G401	Body Wiring Har- ness	Passenger/Car- go	Right rear of the passenger compartment, upper right D-pillar	G401 and G402 (Passenger or Cargo)	-
G402	Body Wiring Har- ness	Passenger/Car- go	Left rear of the passenger compartment, center left D-pillar	G401 and G402 (Passenger or Cargo)	
G403	Side Access Pan- el Wiring Harness	PRP	Left rear of the passenger compartment, center left D-pillar	_	
G404	Chassis Wiring Harness	_	In vehicle underbody, near center, on left frame rail	• G300 and G404 (Passenger or Cargo) • G404 (Cutaway)	Ι
J100	Forward Lamp Wiring Harness	_	At the left front of the en- gine compartment, just be- hind the left front headlamp assembly	Forward Lamp Har- ness Routing	
J101	Engine Wiring Harness	_	In the engine wiring harness, on the right side of the engine, approximately 5 cm (2 in) from the MAP sensor breakout	 Engine Harness Routing - Front (L8T) Engine Harness Routing - Front (LV1) 	_
J102	Engine Wiring Harness	_	In the engine wiring har- ness, on the right side of the engine, approximately 6 cm (2 in) from the MAP sensor breakout	• Engine Harness Routing - Front (L8T) • Engine Harness Routing - Rear (LV1)	_
J104	Fuse Block Jump- er Wiring Harness	9L7	In the fuse block jumper wiring harness, approxi- mately 84.0 cm (33.07 in) from the fuse block - under- hood auxiliary	Upfitter Provision Hamess Routing - Engine Compartment (9L7)	_
J105	Fuse Block Jump- er Wiring Harness	9L7	In the fuse block jumper wiring harness, approxi- mately 54.0 cm (21.26 in) from the fuse block - under- hood auxiliary	Upfitter Provision Harness Routing - Engine Compartment (9L7)	_
J106	Fuse Block Jump- er Wiring Harness	9L7	In the fuse block jumper wiring harness, approxi- mately 36.5 cm (14.37 in) from the fuse block - under- hood auxiliary	Upfitter Provision Hamess Routing - Engine Compartment (9L7)	_
J107	Engine Wiring Harness	_	In the engine wiring har- ness, approximately 11.5 cm (4.53 in) from the horn assembly breakout	• Engine Harness Routing - Front (L8T) • Engine Harness Routing - Front (LV1)	_

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Code	Name	Option	Location	Locator View	View
J108	Engine Wiring Harness	L8T	In the engine wiring har- ness, approximately 10.5 cm (4.0 in) from the engine control module breakout	Engine Harness Routing - Rear (L8T)	_
J110	Forward Lamp Wiring Harness	ı	In the forward lamp wiring harness, Left front of the vehicle, approximately 12 cm (5 in) from the left head- lamp connector breakout	Forward Lamp Har- ness Routing	_
J111	Engine Wiring Harness	L8T	In the engine wiring harness, approximately 5.0 cm (2.0 in) from the brake fluid level switch breakout	Engine Harness Routing - Front (L8T)	_
J112	Engine Wiring Harness	ı	In the engine wiring harness, approximately 33.5 cm (13.2 in) from the multifunction intake air sensor breakout	 Engine Harness Routing - Front (L8T) Engine Harness Routing - Front (LV1) 	_
J115	Engine Wiring Harness	-	In the engine wiring har- ness, in the right front of the engine compartment, approximately 15 cm (6 in) from the X101 breakout	 Engine Harness Routing - Front (L8T) Engine Harness Routing - Front (LV1) 	_
J121	Forward Lamp Wiring Harness	_	In the forward lamp wiring harness, near the front center of the vehicle, approximately 48 cm (19 in) from the left headlamp breakout	Forward Lamp Har- ness Routing	_
J122	Forward Lamp Wiring Harness	-	In the forward lamp wiring harness, near the left front of the vehicle, approximately 12 cm (5 in) from the underhood fuse block X4 breakout	Forward Lamp Har- ness Routing	_
J123	Engine Wiring Harness	L8T	In the engine wiring har- ness, near the left front side of the vehicle, approxi- mately 16 cm (6 in) from the underhood fuse block X1 breakout	Engine Harness Routing - Front (L8T)	_
J127	Automatic Trans- mission Input and Output Speed Sensor Wiring Harness	MYD	Internal to T12 Automatic Transmission Assembly	_	_
J130	Engine Wiring Harness	_	In the engine wiring harness, approximately 12.5 cm (4.9 in) from the knock sensor 1 breakout	 Engine Harness Routing - Front (L8T) Engine Harness Routing - Rear (LV1) 	_
J131	Engine Wiring Harness	_	In the engine wiring harness, approximately 19.5 cm (7.7 in) from the knock sensor 1 breakout	• Engine Harness Routing - Front (L8T) • Engine Harness Routing - Rear (LV1)	_

Code	Name	Option	Location	Locator View	Connector End View
J143	Engine Wiring Harness	_	Adjacent to B52C Heated Oxygen Sensor - Bank 1 Sensor 1 and B52E Heated Oxygen Sensor - Bank 2 Sensor 1	• Engine Harness Routing - Rear (L8T) • Engine Harness Routing - Rear (LV1)	_
J144	Engine Wiring Harness	_	Adjacent to B52D Heated Oxygen Sensor - Bank 1 Sensor 2 and B52F Heated Oxygen Sensor - Bank 2 Sensor 2	 Engine Harness Routing - Rear (L8T) Engine Harness Routing - Rear (LV1) 	_
J170	Engine Wiring Harness	LV1	In the engine wiring harness, approximately 24.5 cm (9.6 in) from ignition coil 5	Engine Harness Routing - Rear (LV1)	_
J171	Engine Wiring Harness	LV1	In the engine wiring harness, approximately 26 cm (10.2 in) from ignition coil 6	Engine Harness Routing - Rear (LV1)	_
J175	Transmission Internal Wiring Harness	M5U	Within the automatic transmission assembly	_	
J176	Transmission Internal Wiring Harness	M5U	Within the automatic transmission assembly	_	_
J177	Transmission Internal Wiring Harness	M5U	Within the automatic transmission assembly	_	_
J181	Ignition Coil Jumper Wiring Harness	L8T	In the ignition coil jumper wiring harness for bank 1, approximately 5 cm (2.0 in) from the X126 breakout	Engine Harness Routing - Front (L8T)	-
J182	Left Ignition Coil Wiring Harness		In the odd ignition/coil mod- ule jumper wiring harness, top left of the engine	 Engine Harness Routing - Front (L8T) Engine Harness Routing - Front (LV1) 	_
J183	Right Ignition Coil Wiring Harness	L8T	In the even ignition/coil module jumper wiring har- ness, top right of the en- gine	Engine Harness Routing - Rear (L8T)	_
J184	Left Ignition Coil Wiring Harness	LV1	In the odd ignition/coil mod- ule jumper wiring harness, top left of the engine	Engine Harness Routing - Front (LV1)	_
J185	Right Ignition Coil Wiring Harness	LV1	In the even ignition/coil module jumper wiring harness, top right of the engine	Engine Harness Routing - Front (LV1)	_
J188	Right Ignition Coil Wiring Harness	_	In the even ignition/coil module jumper wiring har- ness, top right of the en- gine	 Engine Harness Routing - Front (LV1) Engine Harness Routing - Rear (L8T) 	_
J201	Instrument Panel	UFL	In the instrument panel harness, approximately 2 cm (0.79 in) from the park brake switch breakout	Instrument Panel Harness Routing - Driver Side	_

Code	Name	Option	Location	Locator View	Connector End View
J202	Steering Column Wiring Harness	_	In the steering column wiring harness, approximately 25 cm (9 in) from the X200 connector	_	_
J203	Steering Column Wiring Harness	_	In the steering column wiring harness, approximately 27 cm (10.5 in) from the X200 connector	_	
J205	Steering Column Wiring Harness	_	In the steering column wiring harness, approximately 30 cm (12 in) from the X200 connector		ı
J207	Instrument Panel	_	In the instrument panel har- ness, center of the instru- ment panel, approximately 70 cm (27 in) from the radio and HVAC control assem- bly breakout	Instrument Panel Hamess Routing - Rear of Instrument Panel	Ι
J208	Steering Wheel Wiring Harness	K34 with W1Y	In the steering wheel wiring harness, near the X200 connector		
J209	Steering Wheel Wiring Harness	K34 with W1Y	In the steering wheel wiring harness, near the X200 connector		
J210	Steering Wheel Wiring Harness	K34/W1Y	In the steering wheel wiring harness, near the X200 connector		ı
J211	Instrument Panel	UD7/UFT	In the engine compartment, approximately 30 cm (11.8 in) from the windshield washer pump	Instrument Panel Harness Routing - Engine Compartment	ı
J223	Instrument Panel	UVC	Adjacent to K9 Body Control Module	Instrument Panel Harness Routing - Driver Side	
J241	Instrument Panel	_	In the instrument panel har- ness, center of the instru- ment panel, approximately 13.5 cm (5.3 in) from the parking assist control mod- ule breakout	Instrument Panel Hamess Routing - Rear of Instrument <u>Panel</u>	-
J242	Instrument Panel Wiring Harness	_	In the instrument panel wiring harness	_	_
J244	Instrument Panel	_	In the instrument panel har- ness, left side of the instru- ment panel, approximately 12 cm (5 in) from the X200 breakout towards the in- strument panel cluster con- nector	Instrument Panel Hamess Routing - Rear of Instrument <u>Panel</u>	_
J245	Instrument Panel	DE5	In the instrument panel har- ness, center of the instru- ment panel, approximately 30 cm (12 in) from the radio and HVAC control assem- bly breakout	Instrument Panel Harness Routing - Rear of Instrument Panel	_
J246	Instrument Panel	DE5	In the instrument panel har- ness, center of the instru- ment panel, approximately 43.5 cm (17 in) from the ra- dio and HVAC control as- sembly breakout	Instrument Panel Harness Routing - Rear of Instrument Panel	_

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Code	Name	Option	Location	Locator View	Connector End View
J247	Instrument Panel	_	In the instrument panel harness, left side of the instrument panel, approximately 36 cm (14.37 in) from the C200 breakout towards the underhood fuse block	Instrument Panel Harness Routing - Rear of Instrument Panel	_
J248	Instrument Panel	_	In the instrument panel har- ness, left side of the instru- ment panel, approximately 8 cm (3.14 in) from the C200 breakout towards the instrument panel cluster connector	Instrument Panel Harness Routing - Rear of Instrument <u>Panel</u>	_
J249	Instrument Panel	_	In the instrument panel harness, right side of the instrument panel, approximately 21 cm (8 in) from the G304 breakout	Instrument Panel Harness Routing - Rear of Instrument Panel	_
J250	Instrument Panel	_	In the instrument panel har- ness, right side of the in- strument panel, approximately 5 cm (2.16 in) from the air temperature actuator connector break- out towards the inflatable restraint instrument panel module connector	Instrument Panel Harness Routing - Rear of Instrument <u>Panel</u>	
J263	Instrument Panel	TP3	In the instrument panel harness, left side of the instrument panel, approximately 36 cm (14.37 in) from the C200 breakout towards the underhood fuse block	Instrument Panel Harness Routing - Rear of Instrument Panel	_
J264	Steering Column Wiring Harness	_	In the steering wheel wiring harness, approximately 20 cm (8 in) from the X200 connector		_
J270	Instrument Panel	U2K	In the instrument panel har- ness, approximately 15 cm (6 in) from the digital radio receiver and cigar lighter connectors breakout	Instrument Panel Harness Routing - Rear of Instrument Panel	_
J271	Instrument Panel	U2K/UE1	In the instrument panel har- ness, approximately 7.5 cm (3 in) from the vehicle com- munication interface mod- ule and cigar lighter connectors breakout	Instrument Panel Harness Routing - Rear of Instrument <u>Panel</u>	_
J280	Instrument Panel	Cutaway with- out YF7	In the instrument panel har- ness, approximately 20 cm (7.9 in) from the body fuse block and air bag module connectors breakout	Instrument Panel Harness Routing - Driver Side	_
J300	Side Access Pan- el Wiring Harness	PRP	Slightly forward of X53A Fuse Block - Rear Body		_
J302	Instrument Panel	PRP	Adjacent to K9 Body Control Module	_	_
J307	Front Headliner Wiring Harness	C69 with YF7	In the front headliner wiring harness, center of the headliner, approximately 15 cm (6 in) from the X205 breakout towards the left vanity mirror lamp connector	Roof Harness Rout- ing - Front	_

Code	Name	Option	Location	Locator View	Connector End View
J308	Body Wiring Har- ness	C69	In the body wiring harness, left side of the passenger compartment, approxi- mately 22 cm (9 in) from the breakout for the door jamb switch LR side	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Right Rear Passenger Compartment (Cargo/Passen-ger)	_
J309	Side Access Pan- el Wiring Harness	PRP	Adjacent to X53A Fuse Block - Rear Body	_	_
J310	Body Wiring Har- ness	C69	In the body wiring harness, left side of the passenger compartment, approximately 32 cm (12.79 in) from the breakout for the door jamb switch left rear side	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Right Rear Passenger Compartment (Cargo/Passenger)	_
J311	Body Wiring Har- ness	C69	In the body wiring harness, left side of the passenger compartment, approxi- mately 5 cm (2 in) from the door jamb switch LR side breakout	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Right Rear Passenger Compartment (Cargo/Passenger)	_
J314	Front Headliner Wiring Harness	_	In the front headliner wiring harness, center of the headliner, approximately 22 cm (8.5 in) from the X205 breakout towards the left vanity mirror lamp connector	Roof Harness Rout- ing - Front	_

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Code	Name	Option	Location	Locator View	View
J315	Chassis Wiring Harness	_	In the chassis wiring harness, left side frame, approximately 31 cm (12 in) from the G300 breakout	Chassis Harness Routing - Underbody (Cutaway) (NET) Chassis Harness Routing - Underbody (Cutaway) (-NET) Chassis Harness Routing - Underbody (Passenger or Cargo with LWB) Chassis Harness Routing - Underbody (Passenger or Cargo with LWB) Chassis Harness Routing - Underbody (Passenger or Cargo with SWB)	
J322	Body Wiring Har- ness	Cargo/Passen- ger with AU3	In the body wiring harness, near the front passenger seat, approximately 40 cm (16 in) from the X306 breakout	Body Harness Rout- ing - Right Front Pas- senger Compartment	
J323	Body Wiring Har- ness	Cargo/Passen- ger with AU3	In the body wiring harness, near the front passenger seat, approximately 20 cm (8 in) from the X306 break- out	Body Harness Rout- ing - Right Front Pas- senger Compartment	_
J330	Rear Headliner Wiring Harness	Passenger	In the rear headliner wiring harness, center of the headliner, approximately 30 cm (12 in) to the courtesy reading lamp rear breakout	Roof Harness Rout- ing - Rear	_
J331	Body Wiring Har- ness	Passenger	In the body wiring harness, near the front passenger seat, approximately 15 cm (6 in) from the X306 break- out	Body Harness Rout- ing - Right Front Pas- senger Compartment	_
J332	Front Headliner Wiring Harness	DH6 with YF7	In the front headliner wiring harness, center of the headliner, approximately 11 cm (4 in) from the front right sunshade breakout	_	_
J333	Front Headliner Wiring Harness	DH6 without YF7	In the front headliner wiring harness, center of the headliner, approximately 20 cm (8 in) from the right sun- shade breakout	Roof Harness Rout- ing - Front	_
J334	Body Wiring Har- ness	UVC	Approximately 5 inches rearward of X53A Fuse Block - Rear Body	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Front Passenger Compartment (Passenger)	_

Code	Name	Option	Location	Locator View	Connector End View
J335	Front Headliner Wiring Harness	U80	In the front headliner wiring harness, approximately 21.5 cm (8.5 in) from the right sunshade	Roof Harness Rout- ing - Front	_
J348	Side Access Pan- el Wiring Harness	PRP	In the cargo area, in-be- tween the headliner and the roof, in-between the left side access panel and the right side access panel	_	
J350	Side Access Pan- el Wiring Harness	PRP with UF2	In the cargo area, in-be- tween the headliner and the roof, in-between the left side access panel and the right side access panel	_	
J355	Front Headliner Wiring Harness	C69 with YF7	In the front headliner wiring harness, center of the headliner, approximately 61 cm (24 in) from the X205 breakout towards the left vanity mirror lamp connector	Body Harness Rout- ing - Left Front Pas- senger Compartment (Cutaway)	
J356	Body Wiring Har- ness	_	In the body wiring harness, on the left front side of the vehicle, approximately 20 cm (7.87 in) from the under- hood fuse block breakout	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Passenger)	
J357	Body Wiring Har- ness	_	In the body wiring harness, approximately 9.0 cm (3.54 in) from the breakout for X307	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Front Passenger Compartment (Passenger)	_
J359	Body Wiring Har- ness	U80	In the body wiring harness, approximately 20.0 cm (7.9 in) from the multi-axis ac- celeration sensor module breakout	Body Harness Rout- ing - Right Front Pas- senger Compartment	_
J373	Body Wiring Har- ness	Passenger	At the base of the right C-pillar	Body Harness Rout- ing - Right Rear Pas- senger Compartment (Cargo/Passenger)	_
J374	Body Wiring Har- ness	Cargo without YF7	In the body wiring harness, approximately 20 cm (7.9 in) from the dome lamp – left roof rail breakout	Body Harness Rout- ing - Left Front Pas- senger Compartment (Cargo)	_
J375	Body Wiring Har- ness	Cargo without YF7	In the body wiring harness, approximately 20 cm (7.9 in) from the dome lamp – right roof rail breakout	Body Harness Rout- ing - Left Rear Pas- senger Compartment (Cargo)	_

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Code J376	Name Body Wiring Harness	Option Cargo/Passen- ger	In the body wiring harness, approximately 72.5 cm (28.5 in) from the X410 breakout	Body Harness Rout- ing - Right Rear Pas- senger Compartment (Cargo/Passenger)	View
J377	Side Access Pan- el Wiring Harness	PRP	Adjacent to X53A	_	_
J378	Side Access Pan- el Wiring Harness	PRP	Adjacent to X53A	_	_
J387	Chassis Wiring Harness	Cutaway	In the chassis wiring harness, approximately 6 cm (2.36 in) from the trailer connector breakout	Chassis Harness Routing - Underbody (Cutaway) (NE7) Chassis Harness Routing - Underbody (Cutaway) (-NE7)	_
J388	Chassis Wiring Harness	Cutaway	In the chassis wiring har- ness, approximately 10 cm (3.94 in) from the trailer connector breakout	Chassis Harness Routing - Underbody (Cutaway) (NE7) Chassis Harness Routing - Underbody (Cutaway) (-NE7)	_
J401	Body Wiring Har- ness	C36/C49/C69	In the body wiring harness, in the left rear of the vehicle, approximately 21 cm (8 in) from the X401 breakout	Body Harness Rout- ing - Left Rear Pas- senger Compartment (Passenger)	_
J402	Chassis Wiring Harness	_	In the chassis wiring harness, left frame, approximately 20 cm (7.87 in) from the G400 breakout towards the EBCM connector	Chassis Harness Routing - Under- body (Cutaway) (NET) Chassis Harness Routing - Under- body (Cutaway) (-NET) Chassis Harness Routing - Under- body (Passenger or Cargo with LWB) Chassis Harness Routing - Under- body (Passenger or Cargo with SWB)	
J403	Body Wiring Har- ness	Cargo/Passen- ger	In the body wiring harness, left rear of the passenger compartment, approxi- mately 18.5 cm (7 in) from the X402 breakout	Body Harness Rout- ing - Right Rear Pas- senger Compartment (Cargo/Passenger)	_

	Master Electrical Component List (cont d) Connector End						
Code	Name	Option	Location	Locator View	View		
J404	Chassis Wiring Harness	_	In the chassis wiring harness, left frame, approximately 10 cm (4 in) from the G400 breakout towards the EBCM connector	Chassis Harness Routing - Underbody (Cutaway) (NE7) Chassis Harness Routing - Underbody (Cutaway) (-NE7) Chassis Harness Routing - Underbody (Passenger or Cargo with LWB) Chassis Harness Routing - Underbody (Passenger or Cargo with LWB) Chassis Harness Routing - Underbody (Passenger or Cargo with SWB)	_		
J405	Rear HVAC Wir- ing Harness	C36/C69	In the rear HVAC wiring harness, left rear of the passenger compartment, approximately 13 cm (5.31 in) from the auxiliary blower motor relay breakout towards X409	Auxiliary HVAC Har- ness Routing - Left Rear Passenger Compartment (C36/ C69)	П		
J407	Rear Headliner Wiring Harness	Passenger	In the rear headliner wiring harness, center of the headliner, approximately 6.5 cm (2.5 in) from X304 towards the rear courtesy/reading lamp connector	Roof Harness Rout- ing - Rear	_		
J408	Side Access Pan- el Wiring Harness	PRP	In the Left Side Access Panel compartment	_	_		
J409	Side Access Pan- el Wiring Harness	PRP	In the Right Side Access Panel compartment	_	_		
J410	Body Wiring Har- ness	Cargo/Passen- ger	In the body wiring harness, in the left rear of the vehicle, approximately 47 cm (18 in) from the X401 breakout	Body Harness Routing - Left Rear Passenger Compartment (Cargo) Body Harness Routing - Left Rear Passenger Compartment (Passenger)	_		
J411	Rear HVAC Wir- ing Harness	C69	In the rear HVAC wiring harness, left rear of the passenger compartment, approximately 20 cm (8 in) from the blower motor relay breakout, towards X409	Auxiliary HVAC Har- ness Routing - Left Rear Passenger Compartment (C36/ C69)	_		
J412	Rear HVAC Wir- ing Harness	C36/C69	In the rear HVAC wiring harness, left rear of the passenger compartment, approximately 7 cm (2.8 in) from the blower motor relay breakout towards X409	Auxiliary HVAC Har- ness Routing - Left Rear Passenger Compartment (C36/ C69)	_		
J413	Rear HVAC Wir- ing Harness	C36/C70	In the rear HVAC wiring harness, left rear of the passenger compartment, approximately 10 cm (4 in) from the auxiliary blower motor resistor assembly breakout	Auxiliary HVAC Har- ness Routing - Left Rear Passenger Compartment (C36/ C69)	_		

Connector End					
Code	Name	Option	Location	Locator View	View
J420	Rear Bumper Wir- ing Harness	UD7	In the rear bumper wiring harness, approximately 57 cm (22 in) from the right rear middle object alarm sensor towards the left rear corner object alarm sensor	Rear Bumper Har- ness Routing	l
J421	Rear Bumper Wir- ing Harness	UD7	In the rear bumper wiring harness, approximately 15 cm (6 in) from the left rear corner object alarm sensor towards the right rear middle object alarm sensor	Rear Bumper Har- ness Routing	_
J425	Parking Aid Jump- er Wiring Harness	UFT	At the rear of the vehicle	Rear Bumper Har- ness Routing	_
J426	Parking Aid Jump- er Wiring Harness	UFT	At the rear of the vehicle	Rear Bumper Har- ness Routing	_
J431	Chassis Wiring Harness	1	In the chassis wiring harness, approximately 15 cm (5.9 in) from the fuel pump driver control module	Chassis Harness Routing - Underbody (Cutaway) (NE7) Chassis Harness Routing - Underbody (Cutaway) (-NE7) Chassis Harness Routing - Underbody (Passenger or Cargo with LWB) Chassis Harness Routing - Underbody (Passenger or Cargo with LWB) Chassis Harness Routing - Underbody (Passenger or Cargo with SWB)	
J432	Chassis Wiring Harness	_	In the chassis wiring harness, approximately 11 cm (4.33 in) from the X102	Chassis Harness Routing - Underbody (Cutaway) (NE7) Chassis Harness Routing - Underbody (Cutaway) (-NE7) Chassis Harness Routing - Underbody (Passenger or Cargo with LWB) Chassis Harness Routing - Underbody (Passenger or Cargo with LWB) Chassis Harness Routing - Underbody (Passenger or Cargo with SWB)	_
J450	Body Wiring Har- ness	_	In the body wiring harness, in the rear of the vehicle, approximately 10 cm (3.93 in) from the X415 breakout	Body Harness Rout- ing - Right Rear Pas- senger Compartment (Cargo/Passenger)	_
J451	Body Wiring Har- ness	_	In the body wiring harness, in the rear of the vehicle, approximately 17 cm (6.5 in) from the X415 breakout	Body Harness Rout- ing - Right Rear Pas- senger Compartment (Cargo/Passenger)	_

Code	Name	Option	Location	Locator View	Connector End View
J452	Body Wiring Har- ness	_	In the body wiring harness, approximately 17 cm (6.5 in) from the X419 breakout	Body Harness Routing - Left Rear Passenger Compartment (Cargo) Body Harness Routing - Left Rear Passenger Compartment (Passenger)	_
J453	Body Wiring Har- ness	_	In the body wiring harness, in the left rear of the vehicle, approximately 10 cm (4 in) from the X419 breakout	Body Harness Routing - Left Rear Passenger Compartment (Cargo) Body Harness Routing - Left Rear Passenger Compartment (Passenger)	_
J500	Driver Door Wiring Harness	AU3/DE5/A31	In the left front door wiring harness, driver door, approximately 7 cm (3 in) from the left front door speaker breakout	Door Harness Rout- ing - Driver Door	_
J501	Driver Door Wiring Harness	AU3	In the left front door wiring harness, driver door, approximately 6 cm (2.36 in) from the driver outside rearview mirror breakout	_	_
J502	Driver Door Wiring Harness	DE5	In the left front door wiring harness, driver door, approximately 4 cm (2 in) from the left front door speaker breakout	Door Harness Rout- ing - Driver Door	-
J600	Passenger Door Wiring Harness	AU3/DE5/A31	In the right front door wiring harness, front passenger door, approximately 4 cm (2 in) from the passenger outside rearview mirror breakout	Door Harness Rout- ing - Passenger Door	-
J601	Passenger Door Wiring Harness	AU3	In the right front door wiring harness, front passenger door, approximately 5 cm (2 in) from the passenger outside rearview mirror breakout	_	_
J901	Right Rear Cargo Door Wiring Har- ness	Cargo/Passen- ger with AU3	In the rear cargo door wiring harness, approximately 4 cm (1.5 in) from the X902 breakout	Door Harness Rout- ing - Passenger Rear (Passenger or Cargo)	_
J902	Right Rear Cargo Door Wiring Har- ness	Cargo/Passen- ger with C49	In the right rear door wiring harness, right rear cargo door, approximately 12 cm (4.7 in) from the X902 breakout	Door Harness Rout- ing - Passenger Rear (Passenger or Cargo)	_
JX200	Instrument Panel Wiring Harness	_	In the instrument panel wiring harness, left front side of the floor, where the carpet ends behind the brake pedal next to JX250	Instrument Panel Harness Routing - Rear of Instrument Panel	JX200 Splice Pack

Code	Name	Option	Location	Locator View	Connector End View
JX250	Instrument Panel Wiring Harness	ı	In the instrument panel wir- ing harness, left front side of the floor, where the car- pet ends behind the brake pedal next to JX200	Instrument Panel Harness Routing - Rear of Instrument Panel	JX250 Splice Pack
JX347	Body Wiring Har- ness	_	In the body wiring harness, left side of the passenger compartment, attached to the lower left B-pillar part of G347	Body Harness Routing - Left Front Passenger Compartment (Cargo) Body Harness Routing - Left Front Passenger Compartment (Cutaway) Body Harness Routing - Left Front Passenger Compartment (Compartment Compartment (Passenger)	JX347 Splice Pack
JX348	Body Wiring Har- ness	_	In the body wiring harness, right side of the passenger compartment, attached to the lower right B-pillar part of G348	Body Harness Rout- ing - Right Front Pas- senger Compartment	JX348 Splice Pack

Description and Operation Power Mode Description and Operation

Serial Data Power Mode Master

Power to many of this vehicles circuits is controlled by the module that is designated the power mode master (PMM). This vehicles PMM is the body control module (BCM). The BCM has multiple B+ circuits that feed into it. Each of those circuits are partitioned within the controller to drive certain outputs of the vehicle's body functions. An open or short in any one of the B+ circuits may induce multiple codes/or a section of non-functionality within the BCM with the rest of the BCM functioning normally. In this case it is usefull to refer to the power distribution schematics to determine if the non-functional partition of the controller shares a

common B+ circuit. The ignition switch is a low current switch with multiple discrete ignition switch signals to the PMM for determination of the power mode that will be sent over the serial data circuits to the other modules that need this information. The PMM will also activate relays and other direct outputs of the PMM as needed. The PMM determines which power mode (Off, Accessory, Run, Crank Request) is required, and reports this information to other modules via serial data. Modules which have switched voltage inputs may operate in a default mode if the PMM serial data message does not match what the individual module can see from its own connections.

The PMM receives ignition switch signals to identify the operators desired power mode. The PMM Power Mode Parameters table below illustrates the correct state of these input parameters (circuits) in correspondence to the ignition switch position:

PMM Power Mode Parameters

Ignition Switch Position	Power Mode Transmitted	Ign. Off / Run / Crank (Run Crank Ignition 1 Voltage Circuit)	Ignition Accessory / Run (Accessory Voltage Circuit)	Ignition Run / Crank (Ignition 1 Voltage Circuit)
Off Key Out	Off	Key Out/ACC	Inactive	Inactive
Off Key IN	Off	Key In/Off	Inactive	Inactive
Accessory	Accessory	Key Out/ACC	Active	Inactive
Run	Run	Run	Active	Active
Start	Crank Request	Crank	Inactive	Active

Relay Controlled Power Mode

The body control module (BCM) uses the discrete ignition switch inputs Run/Crank Ignition 1 Voltage, Accessory Voltage, and Ignition 1 Voltage, to distinguish the correct power mode. The BCM, after determining the desired power mode, will activate the appropriate relays for that power mode.

The RAP relay remains on for a timed period after the Ignition key is removed. Refer to <u>Retained Accessory Power Description and Operation on page 6-595</u> for more information on the retained accessory power (RAP) function.

BCM Awake/Sleep States

The body control module (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
- · Key-in-ignition
- · 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:

- The ignition switch is OFF, key out.
- 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 (RAP)

The retained accessory power (RAP) system allows specific vehicle functions to operate for a specific amount of time after the ignition switch is turned OFF. The BCM monitors the ignition switch position, battery condition, and each door ajar/open switch status to determine whether RAP should be initiated or terminated. RAP is controlled with 2 different methods; serial data and relay control. Some modules receive a RAP message over the serial data circuits. Serial data controlled RAP is deactivated as required by their modules RAP power mode operation. Other subsystems are activated directly by the BCM through a RAP relay. Components and systems that are active in RAP are also activated anytime the ignition is any position other than OFF regardless of the door switch

signals. The RAP relay is located in the body fuse block, is grounded at G302, and is controlled by the rap relay coil control circuit from the BCM.

Relay Controlled RAP

The BCM keeps the RAP relay energized during all power modes, except Off-Awake and Crank. The relay is also energized for approximately 10 minutes after shutting the ignition OFF and removing the key, providing no door is opened.

Relay controlled RAP will end when one of the following conditions is met:

 The BCM receives an input from any door ajar switch indicating the opening of any door after the ignition key is out of the ignition.

Important: If the BCM is receiving any door ajar signal from those switches when the ignition key is turned OFF, RAP will not initiate.

- The BCM internal timer for the RAP expires after approximately 10 minutes.
- The BCM detects a decrease in battery capacity below a prescribed limit.

The power window system is powered by the RAP relay during the retained accessory power (RAP) power mode.

Serial Data Controlled RAP

RAP systems controlled by serial data are as follows:

Radio

Radio RAP activation/termination is the same as relay operation with 1 exception; the only door switch that will turn off the radio during RAP is the driver door open switch.

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Section 7

Safety and Security

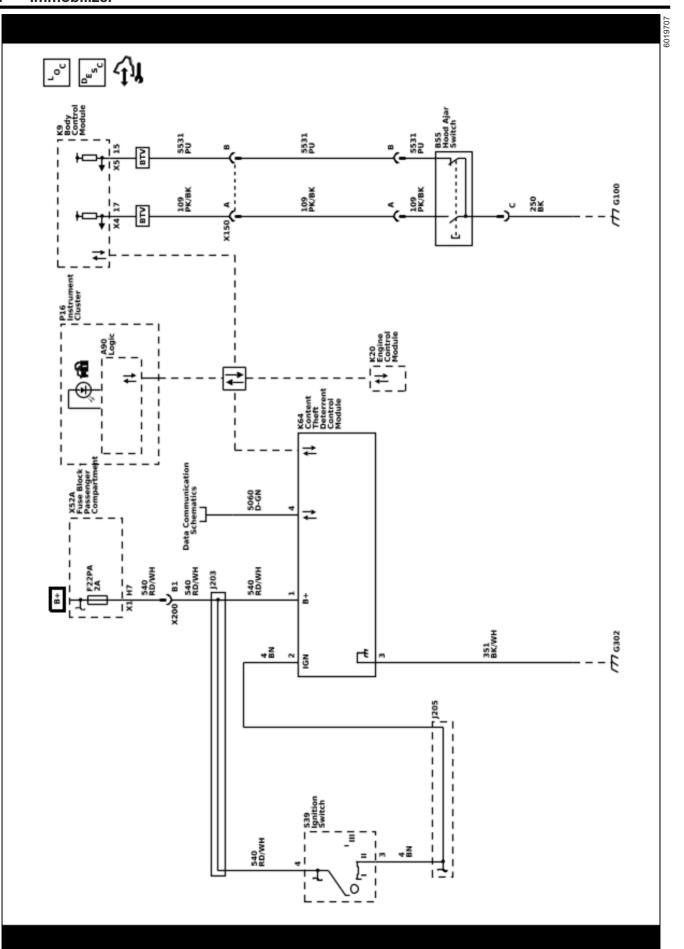
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Immobilizer

Schematic and Routing Diagrams



Description and Operation Immobilizer Description and Operation

The immobilizer system functions are provided by the theft deterrent module (TDM) and the engine control module (ECM). When an ignition key is inserted into the ignition lock cylinder and the ignition is switched ON, the transponder embedded in the head of the key is energized by the exciter coil surrounding the ignition lock cylinder. This exciter coil is part of the TDM. The energized transponder transmits a signal that contains its unique value, which is received by the TDM. The TDM then compares this value to a value stored in memory. If the values match, the TDM will send the prerelease password via the serial data circuit to the ECM. If the transponders unique value is incorrect, the TDM will send the fuel disable password to the ECM.

When the ECM receives the TDM prerelease password, the ECM will challenge the password. The ECM sends this challenge back to the TDM via the serial data circuit. Both the ECM and TDM perform a calculation on this challenge. If the calculated response from the TDM equals the calculation performed by the ECM, the ECM will allow vehicle starting.

The components of the theft system are as follows:

- TDM
- FCM
- Ignition key (Transponder)
- · Security indicator

Theft Deterrent Module (TDM)

Vehicles with steering column mounted ignition switches have the exciter integral with the theft deterrent module (TDM), which is located within the steering column. The TDM can learn up to 10 keys (transponder values).

The TDM uses the following inputs:

- Battery voltage
- Ignition switched voltage
- · Ground circuit

The theft deterrent control module uses the following outputs:

- Password exchange
- Challenge/response with the engine control module (ECM)

When an ignition key is inserted into the ignition lock cylinder and the ignition is switched ON, the transponder embedded in the head of the key is energized by the exciter coils surrounding the ignition lock cylinder. The energized transponder transmits a signal that contains its unique value, which is received

by the TDM. The TDM then compares this value to the learned key code stored in memory. The TDM then performs one of the following functions:

- If the transponder value matches the values stored in the TDM memory, the TDM will send the prerelease password to the ECM via the serial data circuit.
- If the transponders unique value does not match the value stored in the TDM, the TDM will send the fuel disable message to the ECM via the serial data circuit.
- If the TDM is unable to measure the ignition key transponder value, the TDM will not send any messages to the ECM.

Engine Control Module (ECM)

When the engine control module (ECM) receives the theft deterrent module (TDM) prerelease password, the ECM will challenge the password. The ECM sends this challenge back to the TDM via the serial data circuit. Both the ECM and TDM perform a calculation on this challenge. If the calculated response from the TDM equals the calculation performed by the ECM, the ECM will allow vehicle starting.

The ECM will disable vehicle starting if any of the following conditions occur:

- The prerelease password is invalid.
- The fuel disable password is sent by the TDM.
- No passwords are received. There is no communication with the TDM.
- The TDM calculated response to the challenge does not equal the calculation performed by the ECM.

The Ignition Key (Transponder)

Note: The ignition key will be stamped with a + or a + surrounded by a circle. This symbol only identifies the key as a PassKey III+ transponder key and is not a reliable way to determine if a particular key is the correct key for a vehicle. Service parts may have a different stamped symbol than the production part. The only way to determine the proper key for a vehicle is by referencing the parts catalog.

The ignition key for PassKey III+ (PK3+) equipped vehicles is a standard ignition key with a transponder located in the plastic head of the key. The transponder value is fixed and unable to be changed. The immobilizer system uses the ignition key transponder value to determine if a valid ignition key is being used to start the vehicle. There are approximately 3 trillion possible transponder values. There are no visible electrical contacts. The immobilizer system use the following types of ignition keys:

Master Keys

Master keys have a black plastic head for full access operation of the vehicle. Master keys may perform the following functions:

- Start the vehicle.
- Lock/unlock all of the door locks and rear compartment.
- Lock/unlock all of the storage compartments.

Valet Keys

Important: Valet keys are NOT standard equipment on all GM vehicle lines.

Valet keys have a gray plastic head and are for restricted operation of the vehicle. Valet keys may perform the following functions:

- Start the vehicle.
- · Lock/unlock all of the door locks.

Fleet Keys

Important: Fleet keys are NOT standard equipment on all GM vehicle lines.

Fleets keys allow full access to the vehicle just as a master key would. However, unlike a master key which may only learn 10 keys to a particular vehicle, an unlimited number of fleet keys may be learned to the vehicle. Fleet keys are only used in vehicles configured for fleet use with RPO 6E2 or 6E8.

- Start the vehicle.
- Lock/unlock all of the door locks and rear compartment.
- Lock/unlock all of the storage compartments.

Security Indicator

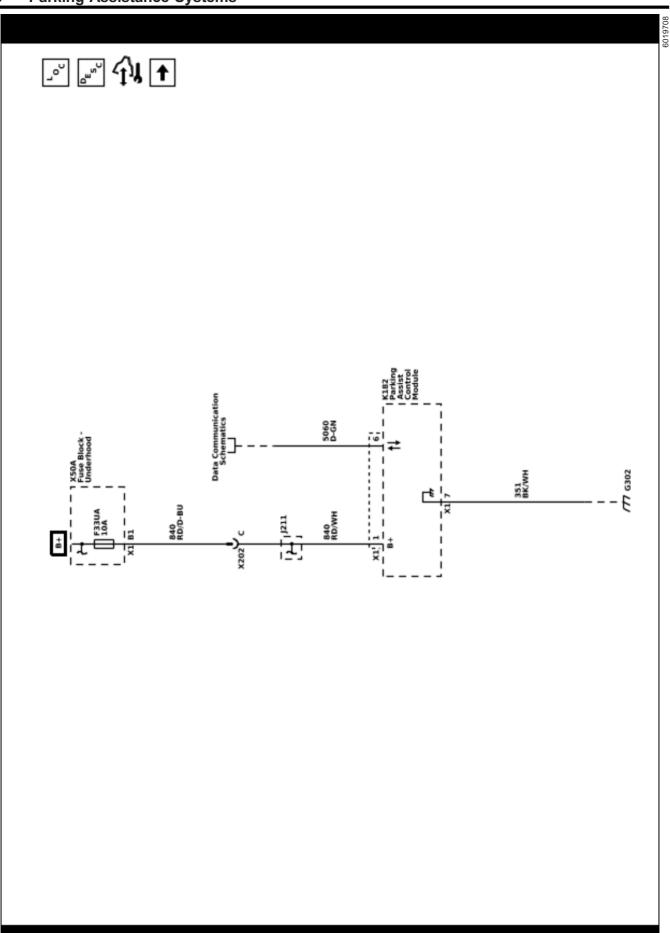
The theft deterrent module (TDM) can command the instrument panel cluster (IPC) to illuminate the security indicator only when the ignition key is in the ON position. The TDM will command the security indicator be illuminated any time a fault is noted in the immobilizer system and when the engine starting is disabled.

Remote Vehicle Speed Limiting Description and Operation

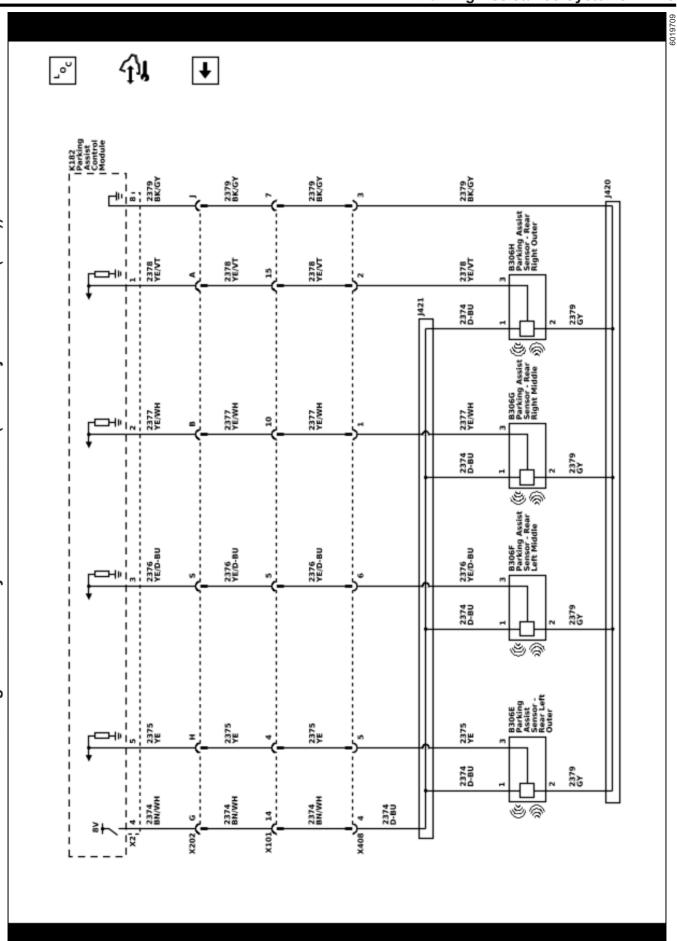
Certain vehicles equipped with OnStar® now have an additional feature that allows for remote limiting of the vehicle's speed. This OnStar® feature is called Stolen Vehicle Slow-Down and is now part of the OnStar® Stolen Vehicle Assistance service. This feature, when used in conjunction with local law enforcement and strict guidelines at the OnStar® Call Center, will slow the vehicle by interacting with the engine control system.

When the engine control system receives a valid request from the OnStar® telematics communications interface module, it will enter into a reduced engine power/vehicle speed limiting mode, which will decelerate the vehicle. Once the request is active the engine control module begins reducing engine torque to match requested vehicle speed and a REDUCED ENGINE POWER indication is displayed. No DTCs will be set during this process.

Parking Assistance Systems Schematic and Routing Diagrams







Description and Operation Parking Assist Description and Operation

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 radio.

The parking assist system is made up of the following components:

- · Rear parking assist control module
- Rear object sensors
- Radio

Parking Assist Control Module

The rear parking assist control module provides a reference voltage and a low reference to the four object alarm sensors. The rear parking assist control module receives individual signals from each of the four sensors and determines the location and distance of an object based on these inputs. When an object is detected, the rear parking assist control module will send a data message via serial data to the radio requesting an audible alert.

Object Sensors

The object sensors are located in the rear fascia. The sensors are used to determine the distance between an object and the rear of the vehicle. Each sensor emits an ultrasonic frequency which is reflected off an object 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 rear parking assist control module.

Radio

The radio controls the audible alert for the park assist alert. If the an object is detected the radio will command beeps as an audible alert to the driver.

Parking Assist Operation

When an object is within the measuring range of the sensor, 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 rear parking assist control module. The rear parking assist control module evaluates the received sensor signals. As soon as an object is within the measuring range, the rear parking assist control module sends a message via serial data to the radio to provide an 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, underneath the vehicle.

The parking assist can be activated and deactivated by pressing the parking assist switch. When REVERSE gear is selected, park assist is automatically activated. By subsequently pressing the parking assist switch the parking assist can be disabled again.

The rear 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, which need to alter when the vehicle moves. If this is not the case, the sensor is acoustically blocked or faulty. Mud, ice and snow may cause obstruction of the function of the sensors. The rear parking assist control module also checks whether the correct type of sensor is installed. If any of these tests fails, a DTC with corresponding symptom is set, the parking assist is deactivated and the parking assist indicator in the instrument panel cluster is activated.

Parking Assist System Driver Information Center Messages

SERVICE PARK ASSIST

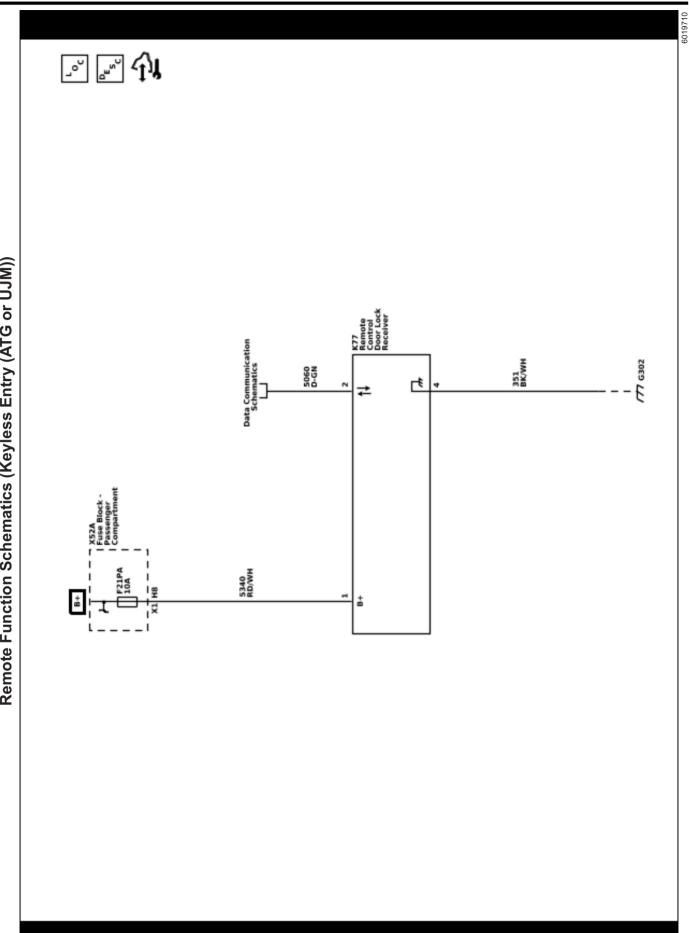
The driver information center displays SERVICE PARK ASSIST when the rear parking assist control module detects a malfunction in the parking assist system and the system is disabled. The driver information center also displays SERVICE PARK ASSIST when a loss of communication occurs with the rear parking 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 rear 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 using the parking assist switch.
- 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 rear fascia is damaged.
- Excessive paint thickness on a replacement parking assist sensor.
- The parking assist sensors are disrupted by vibrations, like those caused by a large nearby vehicle or from heavy equipment such as a jackhammer.

Remote Functions



Description and Operation Front Side Door Access Control Transmitter Description and Operation ((Keypad Accessory))

Front Side Door Access Control Transmitter Description and Operation

The Front Side Door Access Control Transmitter is an accessory offered to be used as a vehicle entry device. Similar to the Keyless Entry Transmitter, the Front Side Door Access Control Transmitter will send a radio frequency signal to the Remote Control Door Lock Receiver. Next, the Remote Control Door Lock Receiver sends a signal to the Body Control Module (BCM) via LIN communication. The BCM will interpret this signal and either lock or unlock the vehicle as a result. A low transmitter battery or radio frequency interference from aftermarket devices, such as 2-way radios, power inverters, computers, etc., may cause a system malfunction. High radio frequency traffic areas, such as gas stations that use pay-at-the-pump radio frequency transponders, may also cause interference that could lead to a malfunction.

Like the Keyless Entry Transmitter, the Front Side Door Access Control Transmitter is programmed to the vehicle's Body Control Module. This means the Front Side Door Access Control Transmitter will populate one of the 8 programmable spaces in the BCM for Keyless Entry Transmitters. The Front Side Door Access Control Transmitter will need to be reprogrammed in the event of BCM replacement. This can only be achieved with the Master Code. If the Master Code is not retrievable, a new Front Side Door Access Control Transmitter with accompanying wallet card will need to be programmed to the new BCM.

The Front Side Door Access Control Transmitter has 5 buttons depicting numbers from 0 to 9. Each button represents a character of a 5 digit code that the vehicle owner may program, which will be referred to as a personal code. The user has 3 attempts to input the correct access code before the Front Side Door Access Control Transmitter enters lockout mode for 1 minute. This will occur up to 2 more times if the incorrect access code is entered repeatedly. After that, any additional 3 attempts will cause the Front Side Door Access Control Transmitter to enter lockout mode for 23 minutes. There is an LED light at the top of the Front Side Door Access Control Transmitter that provides feedback to the user. Each Front Side Door Access Control Transmitter is sold with a wallet card that contains a master code that may be used for keyless entry as well as programming a personal code. The master code will always allow operation of the Front Side Door Access Control Transmitter and may be used to program a new personal code. Entering the 5 digit access code will unlock the driver door. Pressing the 3/4 key within 5 seconds of entering the 5 digit access code with unlock all doors. Pressing the 7/8 and 9/0 button will lock all doors. To change the personal code, refer to the wallet card included with the Front Side Door Access Control Transmitter.

The Front Side Door Access Control Transmitter contains a button cell battery that is not serviceable. Once the battery exceeds the expected lifetime, the Front Side Door Access Control Transmitter will need to be replaced. A new Front Side Door Access Control Transmitter will come with new wallet card.

Keyless Entry System Description and Operation

The keyless entry system is a vehicle entry device. The keyless entry system is used in conjunction with the body control module (BCM) to remotely activate certain vehicle features. Keyless entry will lock/unlock the doors when a corresponding button on the keyless entry transmitter is pressed. This is accomplished by the transmitter sending a radio frequency to the remote control door lock receiver (RCDLR). The RCDLR interprets the signal and activates the requested function via a serial data message to the BCM. A low transmitter or vehicle battery or radio frequency (RF) interference from aftermarket devices, such as 2-way radios, power inverters, computers, etc., may cause a system malfunction. High RF traffic areas may also cause interference that could lead to a malfunction. Keyless entry allows you to operate the following components:

- Door locks
- · Cargo door unlock
- Vehicle locator/Panic alarm
- Illuminated entry lamps

The keyless entry system has the following components:

- Keyless entry transmitters
- BCM
- RCDLR

Keyless Entry Transmitters

The keyless entry transmitter are used to lock and unlock the vehicle doors from a distance of up to 65 feet (20 m) away. Up to 8 transmitters may be programmed to a single vehicle.

OnStar® Remote Link

A vehicle operator may have the ability to perform some of the keyless entry functions using applications on personal devices such as smart phones.

Remote Control Door Lock Receiver (RCDLR)

The remote control door lock receiver (RCDLR) is a multifunction module that operates both the keyless entry system as well as the tire pressure monitoring (TPM) system. The RCDLR has an internal antenna that is used to receive radio frequency (RF) communications sent by the keyless entry transmitters. When an RF message is received from a keyless entry transmitter, the RCDLR interprets this signal and will request via serial data that the body control module (BCM) perform the specific function, i.e. door lock, door unlock, or vehicle locate. The RCDLR also receives RF signals from the TPM sensors located at each wheel.

Unlock Driver Door Only

Momentarily press the transmitter UNLOCK button in order to perform the following functions:

- · Unlock only the driver door.
- Illuminate the interior lamps for a determined length of time, or until the ignition is turned ON.
- Flash the exterior lights, if enabled through personalization.

Unlock All Doors – Second Operation

Momentarily press the transmitter UNLOCK button a second time, within 5 seconds of the first press, to perform the following functions:

- · Unlock the remaining doors.
- · Unlock the cargo doors.

Cargo Door Unlock

Momentarily press the transmitter cargo door unlock button a second time, within 5 seconds of the first press, to perform the following function:

Unlock only the cargo doors.

Lock All Doors

Press the transmitter LOCK button to perform the following functions:

- · Lock all vehicle doors.
- Immediately turn OFF the interior lamps.
- Flash the exterior lights, if enabled through personalization.
- · Chirp the horn, if enabled through personalization.

Vehicle Locator/Panic Alarm

A single press of the panic button performs the following functions. Some functions may be dependent on personalization settings:

- · Pulse the horn three times.
- Flash the exterior lamps three times.

A press and hold of the panic button performs the following functions:

- · Illuminate the interior lamps.
- Pulse the horn and flash the exterior lamps for 30 second or until the following conditions occur:
 - The panic button is pressed.
 - The ignition switch is turned to the RUN position with a valid key.

Remote Vehicle Start (RVS) – if equipped

The remote vehicle start (RVS) function allows engine starting while not in the vehicle. It also allows the vehicle HVAC system and other vehicle systems to enable, providing a comfortable vehicle upon entry. RVS functions have an operating range of up to 195 feet, depending on conditions. The RVS sequence begins by pressing and releasing the lock button and then pressing and holding the RVS buttons on the keyless entry transmitter. The turn signal lamps will illuminate to indicate the vehicle has received the remote start request. Each time an RVS is performed, the vehicle doors are locked, however they may then be unlocked/locked with the transmitter or vehicle key

at any time. Once activated, the engine is allowed to run for 10 minutes. The RVS time may be extended by an additional 10 minute by again pressing and releasing the lock button and then pressing and holding the RVS buttons on the transmitter. This feature is called a RVS continue and allows a maximum of 20 minutes of engine running. If the RVS continue is performed at 7 minutes into the initial 10 minute time-out, a total of 17 minutes of engine running would occur. The RVS event may be suspended at any time by pressing only the RVS button on the transmitter or by entering the vehicle and turning ON the hazard lamps.

In between ignition cycles, only two RVS events may occur or be attempted. Once two events or attempts have been made, future RVS events will be suspended until the vehicle is started using the ignition.

Enable/Disable RVS

Using the driver information center (DIC), RVS may be enabled or disabled as a part of vehicle personalization. Refer to the vehicle owners manual for more information.

Hood Ajar Switch

The hood switch provides status of the hood to the BCM for RVS purposes. The switch is integrated into the hood latch assembly. The hood ajar switch provides 2 separate inputs to the BCM. These separate inputs allow the BCM to actively monitor for a hood ajar switch fault.

RVS Circuit Description

The RCDLR receives a signal from the keyless entry transmitter indicating a RVS request. A message is then sent to the BCM which determines if a crank request message will be sent to the ECM to allow engine starting. To determine if conditions are correct for an RVS event, the BCM will ensure the following conditions are met:

- All vehicle doors are closed
- A valid hood ajar switch closed signal is present
- · The doors are locked
- · The hazard switch is OFF
- The vehicle power mode is correct
- No content theft deterrent (CTD) alarm triggers are present
- The vehicle is not in valet mode (if equipped)

When the BCM determines all conditions meet those required for an RVS event, a message is sent via serial data to the ECM. The ECM relies on the RVS message from BCM to enable RVS when the crank request signal is received. If the ECM does not receive a valid RVS message, it will not attempt to start the engine. While the ECM is in RVS mode it will suspend engine operation if any of the following additional conditions occur:

- · Vehicle speed is greater than 0
- Transmission is not in PARK
- Excessive engine coolant temperature
- Low oil pressure
- The malfunction indicator lamp (MIL) is commanded ON

- Engine crank time is greater than 30 seconds
- Excessive engine speed
- · Accelerator pedal position too high
- Remote start timer equals 0
- Immobilizer system indicates tamper

Keyless Entry Personalization

Vehicle lock/unlock functions and remote vehicle start (RVS) settings may be personalized. For functional descriptions and personalization instructions, refer to the vehicle owners manual.

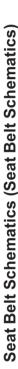
Rolling Code

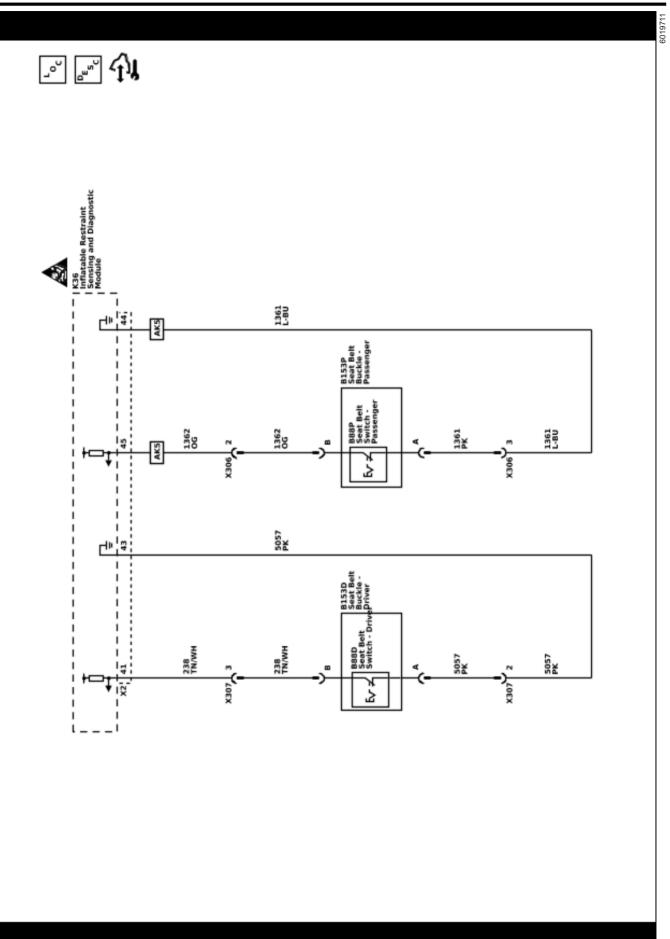
The Keyless Entry System uses rolling code technology. Rolling code technology prevents anyone from recording the message sent from the transmitter and using the message in order to gain entry to the vehicle. The term "rolling code" refers to the way that the Keyless Entry System sends and receives the signals. The transmitter sends the signal in a different order each time. The transmitter and the remote control door lock receiver (RCDLR) are synchronized to the appropriate order. If a programmed transmitter sends a signal that is not in the order that the RCDLR expects, then the transmitter is out of synchronization. This occurs after 256 presses of any transmitter button when it is out of range of the vehicle.

Automatic Synchronization

The keyless entry transmitters do not require a manual synchronization procedure. If needed, the transmitters automatically re-synchronize when any button on the transmitter is pressed within range of the vehicle. The transmitter will operate normally after the automatic synchronization.

Seat Belts





Description and Operation Seat Belt System Description and Operation

Restraint System

Seat belts are the primary means of occupant restraint. Seat belts help to keep occupants inside the passenger compartment and to gradually reduce the impact forces.

All seat belt retractors have emergency locks. The retractors remain unlocked during normal operation and under normal driving conditions. The retractors remain unlocked during normal conditions in order to allow free movement of the upper body of each occupant.

A pendulum locks the seat belt webbing into position. The pendulum causes a locking bar to engage a cog on the spool of the retractor mechanism when the following conditions occur:

- A rapid extraction of the seat belt webbing from the retractor
- · An abrupt change in the vehicle speed
- · An abrupt change in the vehicle direction
- Operation of the vehicle on a steep upgrade
- Operation of the vehicle on a steep downgrade

The seat belts, except for the driver seat belt, have an automatic locking feature, or a cinch feature. The cinch feature is recommended for securing a child seat. The cinch feature is engaged by fully extending the seat belt from the retractor. Once engaged, the seat belt can retract, but cannot be extended again until the cinch feature is cancelled. The cinch feature is cancelled when the seat belt has fully retracted.

This vehicle is also equipped with a supplemental inflatable restraint (SIR) system. Refer to <u>Supplemental Inflatable Restraint System Description and Operation on page 7-24</u> for a description of the seat belt retractor pretensioner.

Front Seat Belt System

The front seat belt system includes the following components:

- The driver and passenger seat belt buckles, attached to the inboard side of the seat frame
- The driver and passenger seat belt retractor pretensioners
- The driver and passenger seat belt switch located in the seat belt buckles

Seat Belt System Circuit Description

There are two fasten safety belt indicators for this vehicle. The driver fasten safety belt indicator is located on the instrument panel cluster (IPC) and the passenger fasten safety belt indicator is located in the passenger ON/OFF indicator. Both indicators are controlled by the IPC at the request of the inflatable restraint sensing and diagnostic module (SDM). The driver indicator, when initiated, will illuminate for 20 seconds followed by 55 seconds of flashing. Audible warnings will initiate simultaneously with visual warnings and last for 8 seconds. Subsequently, similar events will occur until the seat belts are buckled or the ignition is returned to the OFF position.

The driver fasten safety belt indicator will illuminate when any of the following occur:

- The driver seat belt is unbuckled while the ignition is ON.
- The driver seat belt remains unbuckled and vehicle speed is greater than 8 km/h (5 mph).
- Three minutes after previous seat belt status reminder event
- The IPC performs the displays test at the start of each ignition cycle.

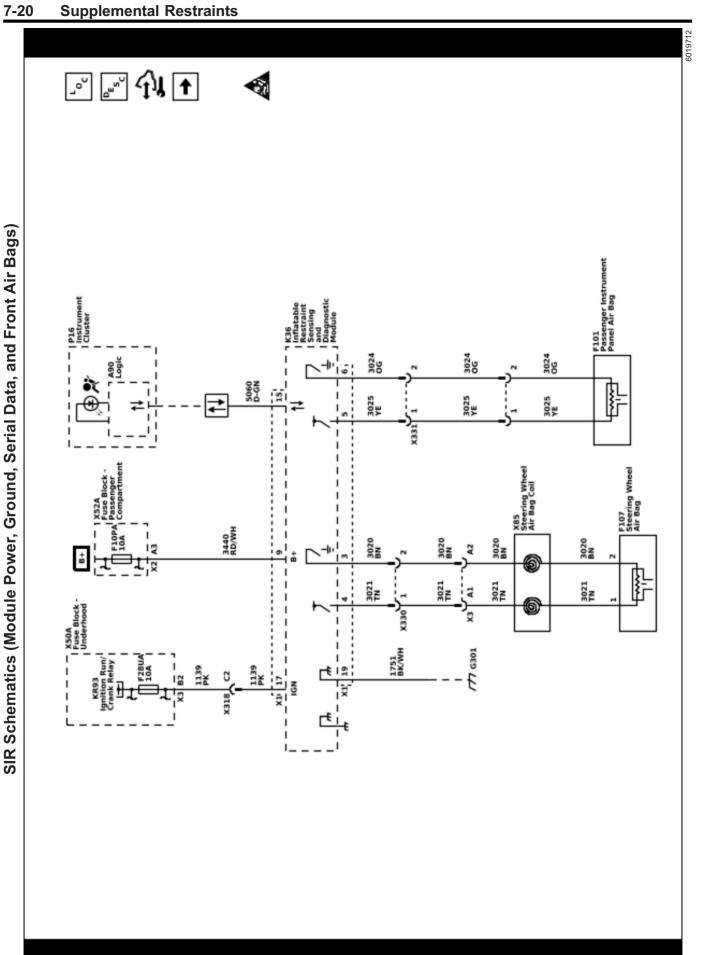
Important: The front passenger seat is equipped with a passenger presence system (PPS), which detects an occupant. If the PPS detects an empty front passenger seat, then the passenger fasten safety belt indicator will be disabled

The passenger fasten safety belt indicator will illuminate when any of the following occur:

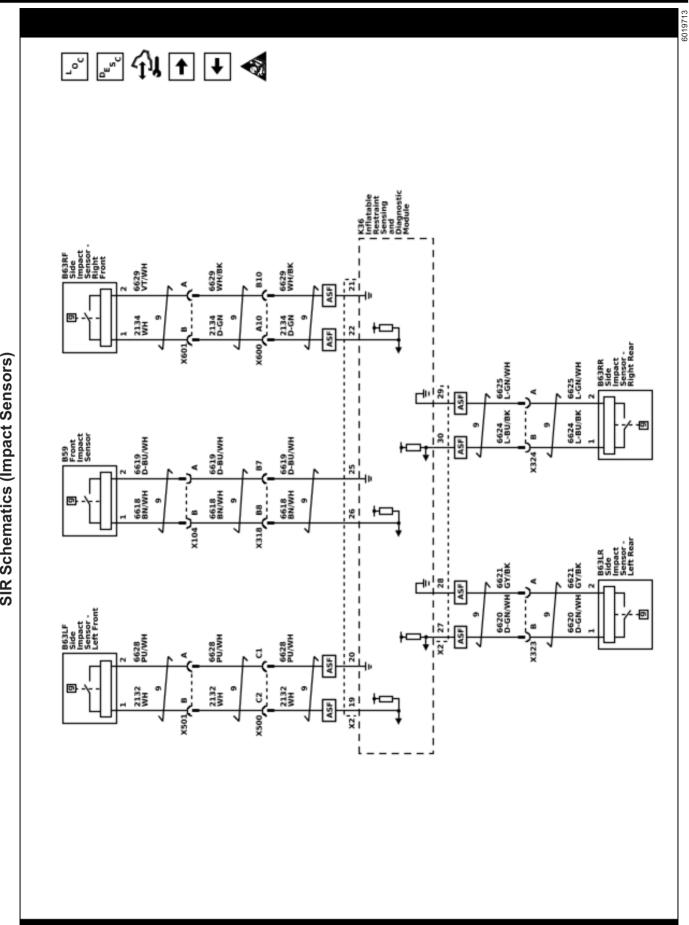
- Twenty-five seconds after the ignition is ON and the front passenger seat belt remains unbuckled with passenger present
- The front passenger seat belt remains unbuckled with passenger present and vehicle speed is greater than 5 mph (8 km/h).
- Three minutes after previous seat belt status reminder event
- The IPC performs the displays test at the start of each ignition cycle.

Refer to Symptoms - Seat Belts in order to diagnose faults of the fasten safety belt indicators.

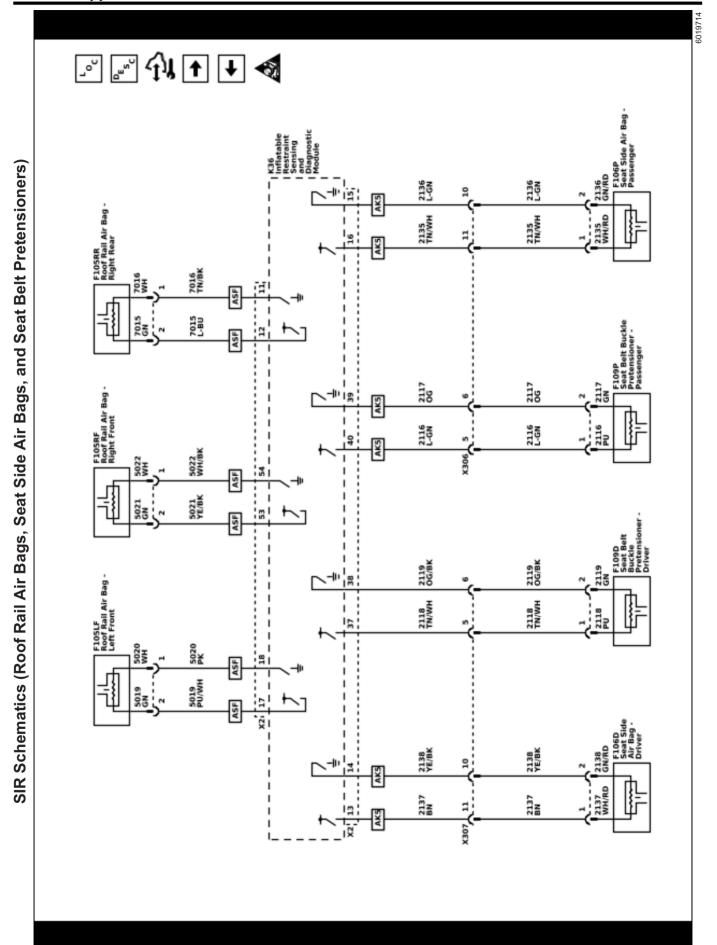
Supplemental Restraints

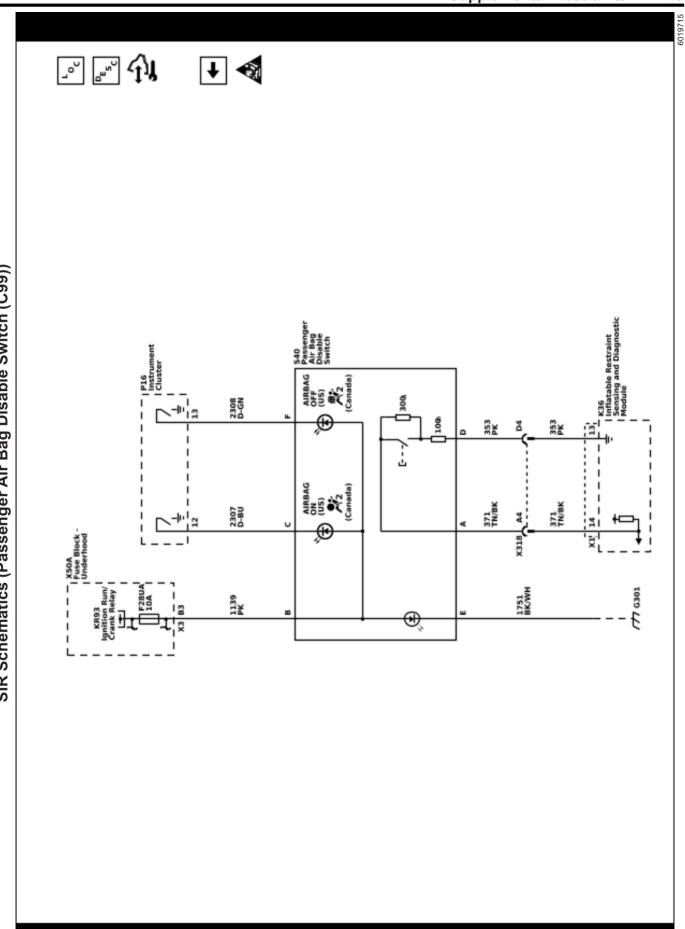






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Description and Operation Supplemental Inflatable Restraint System Description and Operation

The supplemental inflatable restraint (SIR) system. comprised of the inflatable restraint sensing and diagnostic module (SDM), impact sensors, air bags, and seat belt pretensioners, supplements the protection offered by the seat belts. The SDM determines the severity of a collision using data collected from impact sensors located at strategic points on the vehicle. When the SDM detects a collision, it processes the information provided by the sensors to provide the safest combination of air bag and pretensioner deployment. The SDM will deploy the air bags and pretensioners if it detects a collision of sufficient force. If the force of the impact is not sufficient to warrant air bag deployment, the SDM may still deploy the seat belt pretensioners. The SDM contains a sensing device that translates vehicle acceleration to an electrical signal. The SDM compares these signals to the threshold values stored in memory. If the signals exceed the stored threshold value, the SDM will determine the severity of the event and may deploy restraints. The SDM continuously monitors the deployment loops and electrical components for malfunctions. Upon detection of a circuit malfunction, the SDM will set a DTC and illuminate the SIR system air bag malfunction indicator. The steering column and knee bolsters are designed to absorb energy and compress during frontal collisions to limit leg movement and decrease the chance of injury to the driver and passenger.

The supplemental inflatable restraint system utilizes the following components:

- Inflatable Restraint Sensing and Diagnostic Module
- Air Bag Indicator
- Air Bags
- Seat Belt Pretensioners
- Impact Sensors
- Passenger Presence System
- Passenger Air Bag Indicator
- Passenger Air Bag Disable Switch
- Seat Belt Indicators

Inflatable Restraint Sensing and Diagnostic Module

The SDM is the control unit for the SIR system. The SDM contains internal sensors in addition to the external impact sensors. The SDM contains sensor which translate vehicle acceleration into an electrical signal, which may be used by other modules. In the event of a collision, the SDM compares the signals from the internal and external impact sensors to a threshold value stored in memory. When the generated signals exceed the stored value, the SDM will cause current to flow through the appropriate deployment loops to deploy the restraints. The SDM records the SIR system status when a deployment occurs and illuminates the air bag malfunction indicator. The SDM performs continuous diagnostic monitoring of the SIR system electrical components and circuitry when the ignition is on. If the SDM detects a malfunction, a DTC will set

and the SDM will command the instrument cluster to illuminate the air bag malfunction indicator, notifying the driver that a malfunction exists. If power is lost during a collision, the SDM maintains a 23 V loop reserve for deployment of the air bags. It is important when disabling the SIR system for servicing or rescue operations to allow the 23 V loop reserve to dissipate, which could take up to 1 minute.

Air Bag Indicator

The SIR system air bag indicator, located in the instrument cluster, is used to notify the driver of SIR system malfunctions and verify that the SDM is communicating with the instrument cluster. When the ignition is turned on, the SDM is supplied with ignition voltage. The instrument cluster will momentarily turn on the SIR system air bag indicator. While the indicator is on, the SDM conducts tests on all SIR system components and circuits. If no malfunctions are detected the SDM will communicate with the instrument cluster through the serial data circuit and command the SIR system air bag malfunction indicator to turn off. The SDM provides continuous monitoring of the air bag circuits by conducting a sequence of checks. If a malfunction is detected the SDM will set a DTC and command the instrument cluster to illuminate the SIR system air bag malfunction indicator via serial data. The presence of an SIR system malfunction could result in non-deployment of the inflatable restraints or deployment in conditions that normally would not warrant deployment. The SIR system air bag malfunction indicator will remain on until the malfunction has been repaired.

Air Bags

The vehicle will contain a number of air bags, depending on vehicle available and optional equipment:

- Steering wheel
- Instrument panel
- · Driver seat
- Passenger seat
- Left roof rail
- Right roof rail

To view the locations of the air bags refer to: <u>Master Electrical Component List on page 6-555</u>.

The steering wheel and instrument panel air bag are a single-stage design. The air bags contain a housing, inflatable air bag, an initiating device, a canister of gas generating material and, in some cases, stored compressed gas. Each air bag has a discrete deployment loop to supply current and deploy the air bag. The current passing through the air bags ignite the material in the canister producing a rapid generation of gas and is some cases, the release of compressed gas. The gas produced from this reaction rapidly inflates the air bag. Once the air bag is inflated, it deflates through the air bag vent holes and/or the bag fabric. A shorting bar (if equipped) is located in the connector.

Seat Belt Pretensioners

The vehicle will contain a number of seat belt pretensioners, depending on vehicle available and optional equipment:

- Driver Seat belt anchor
- Driver Seat belt retractor
- · Passenger Seat belt anchor
- Passenger Seat belt retractor

To view the locations of the seat belt pretensioners refer to: <u>Master Electrical Component List</u> <u>on page 6-555</u>.

The seat belt pretensioners consist of a housing, seat belt retractor, seat belt anchor, seat belt webbing, initiator, and a canister of gas generating materials. The initiator is part of the seat belt pretensioner deployment loop. When the vehicle is involved in a collision of sufficient force, the SDM causes current to flow through the seat belt deployment loops to the initiator. Current passing through the initiator ignites the material in the canister producing a rapid generation of gas. The gas produced from this reaction deploys the seat belt pretensioners which removes the slack in the seat belts. Depending on the severity of the collision, the seat belt pretensioners may deploy without the frontal inflator modules deploying, or they will deploy immediately before the frontal inflator modules deploy. Each seat belt pretensioner connector is equipped with a shorting bar, which shorts the seat belt pretensioner circuitry to prevent unwanted deployment of the seat belt pretensioner when the connector is disconnected.

Impact Sensors

The vehicle will contain a number of impact sensors, depending on vehicle available and optional equipment:

- Front
- Front Left
- · Front right
- Door
- · Rear Frame Rail

To view the locations of the impact sensors refer to: <u>Master Electrical Component List on page 6-555</u>.

The impact sensors contain a sensing device which monitors vehicle acceleration to detect collisions that are severe enough to warrant air bag deployment. The impact sensors are not part of the deployment loop, but instead provide input to the SDM.

Passenger Presence System

The passenger presence system is used to monitor the type of occupant that is sitting in the front passenger seat and communicate the status to the inflatable restraint sensing and diagnostic module. The inflatable restraint sensing and diagnostic module then uses this information to determine whether to enable or suppress the deployment of the passenger instrument panel air bag. The passenger presence system consists of an electronic control module, a sensor mat in the seat, a harness, and passenger air bag ON/OFF indicators.

Passenger Air Bag Indicator

The passenger air bag indicator identifies the status of the instrument panel air bag. If an occupant is not detected in the passenger seat or the occupant type is not suitable for air bag deployment, the inflatable restraint sensing and diagnostic module will illuminate the passenger air bag OFF indicator. If an occupant is detected in the passenger seat, the inflatable restraint sensing and diagnostic module will illuminate the passenger air bag ON indicator.

Passenger Air Bag Disable Switch

The passenger air bag disable switch provides the means to manually disable the ability for the passenger instrument panel air bag to deploy. The vehicle has a passenger air bag status indicator to inform the driver when the passenger air bag is on or off based on the disable switch position.

Seat Belt Indicators

The seat belt indicators are controlled by the inflatable restraint sensing and diagnostic module. For further information on seat belt indicators refer to: <u>Seat Belt System Description and Operation on page 7-18</u>.

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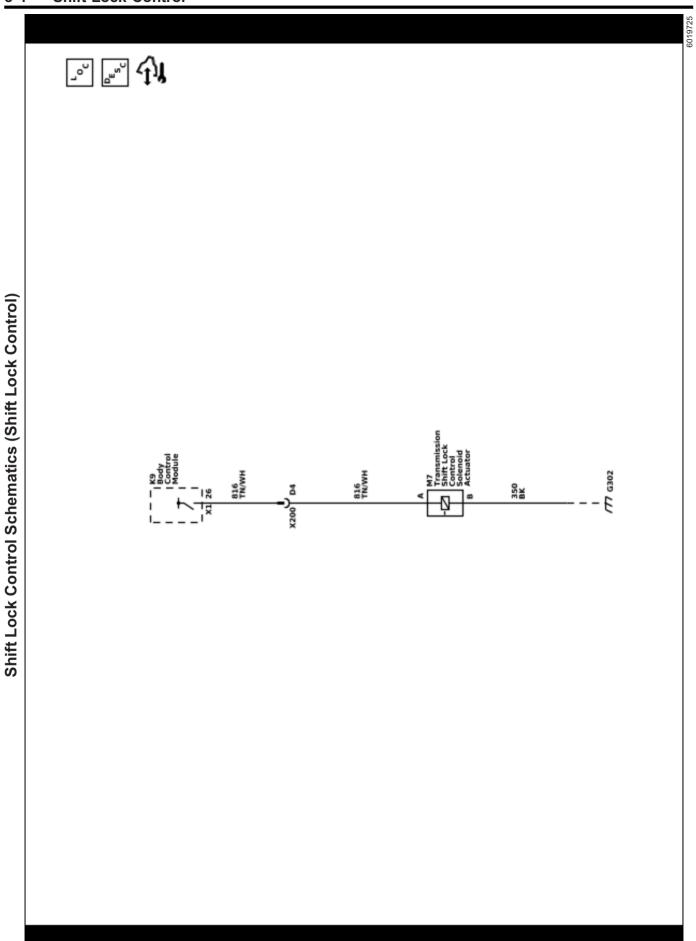
Section 8

Transmission

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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 automatic transmission shift lock actuator), as well as the body control module (BCM) and the engine control module (ECM). The shift lock solenoid is located within the floor shift control assembly with vehicles equipped with floor shift.
- The BCM controls the voltage to the shift lock control solenoid through the shift lock control solenoid controlled voltage circuit. The following conditions must be met before the BCM will remove voltage from the shift lock solenoid:
 - The ignition is in the ON position.
 - The engine control module (ECM) sends an input via GMLAN serial data to the BCM indicating the transmission is in the PARK position.
 - The BCM determines the brake pedal is applied according the brake pedal position.

Since the shift lock control solenoid is permanently grounded, the BCM supplies voltage to the automatic transmission shift lock control solenoid, mechanically locking the shift lever in the PARK position as the solenoid energizes. When the brake pedal is applied, the BCM turns the control voltage output of the shift lock control solenoid OFF, de-energizing the shift lock control solenoid. The de-energized solenoid releases the mechanical lock allowing the driver to move the shift lever out of the PARK position. When the transmission is out of the PARK position, the shift lock control solenoid remains de-energized.

Note: If equipped with push button start, the BCM supplies voltage to the automatic transmission shift lock control solenoid, mechanically unlocking the shift lever in the PARK position as the solenoid energizes.

During remote start operation, the BCM will energize the shift lock control circuit, locking the shift lever in the PARK position. 8-6

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