Section 6

Power and Signal Distribution

Data Communications 6-3
Schematic and Routing Diagrams 6-3
Data Communication Schematics 6-4
Body Control System Schematics 6-11
Description and Operation 6-15
Body Control System Description and Operation 6-15
Data Link Communications Description and Operation 6-15
Power Outlets 6-17
Schematic and Routing Diagrams 6-17
Cigar Lighter/Power Outlet Schematics 6-18
Description and Operation 6-20
Power Outlets Description and Operation 6-20
Wiring Systems and Power Management 6-22
Schematic and Routing Diagrams 6-22
Power Distribution Schematics 6-23
Power Moding Schematics 6-50
Ground Distribution Schematics 6-52
Upfitter Provision Schematics 6-67
Trailer Connector/Provision Schematics 6-71
Component Locator 6-73
Master Electrical Component List 6-73
Ground Views 6-119
Electrical Center Identification Views 6-127
Component Connector End Views 6-170
Splice Pack Connector End Views 6-555
Inline Harness Connector End Views 6-559
Description and Operation 6-667
Power Mode Description and Operation 6-667
Retained Accessory Power Description and Operation 6-668

cardiagn.com

BLANK

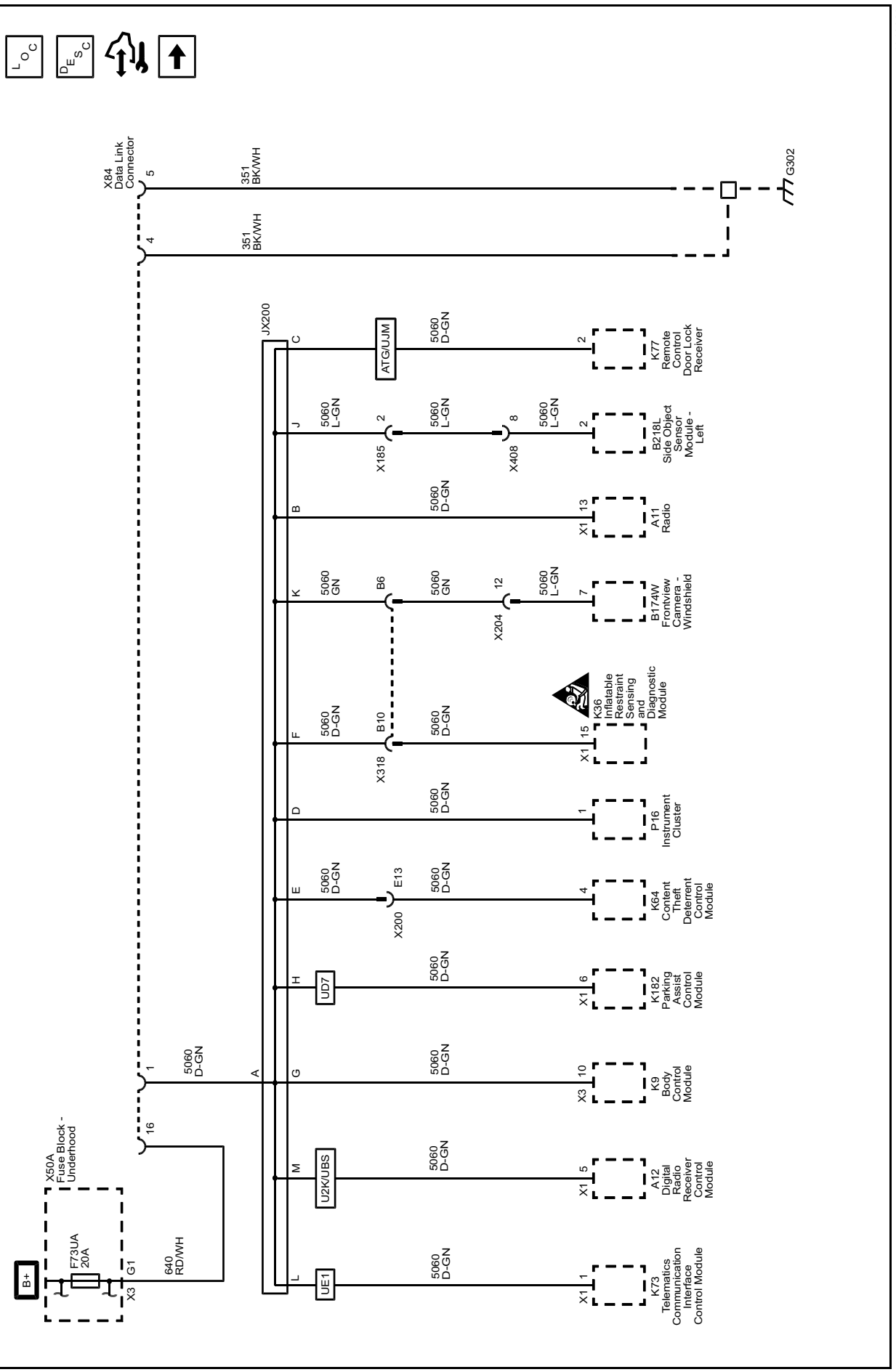
cardiagn.com

Data Communications

Schematic and Routing Diagrams

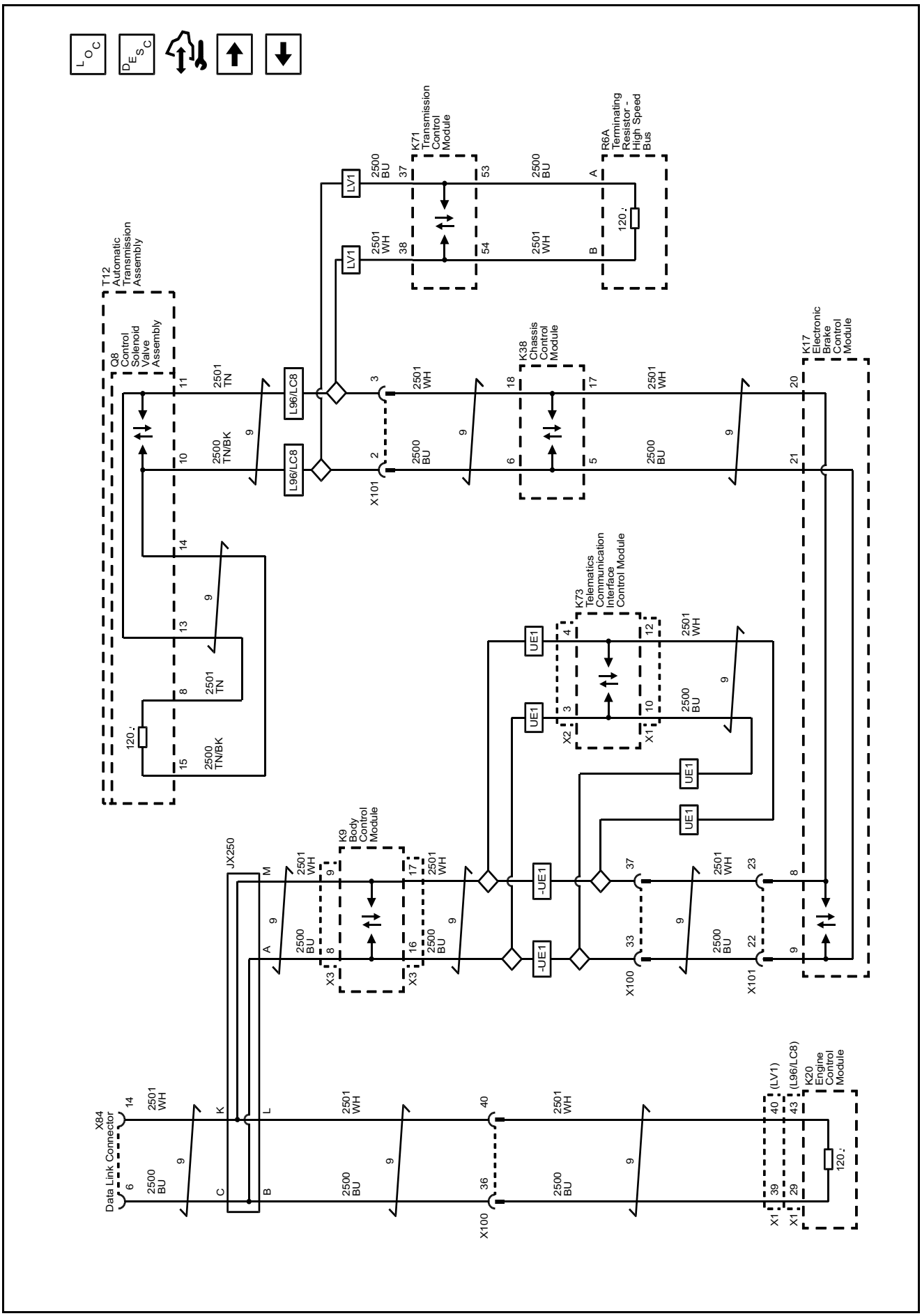
cardiagn.com

Data Communication Schematics (Low Speed GMLAN)



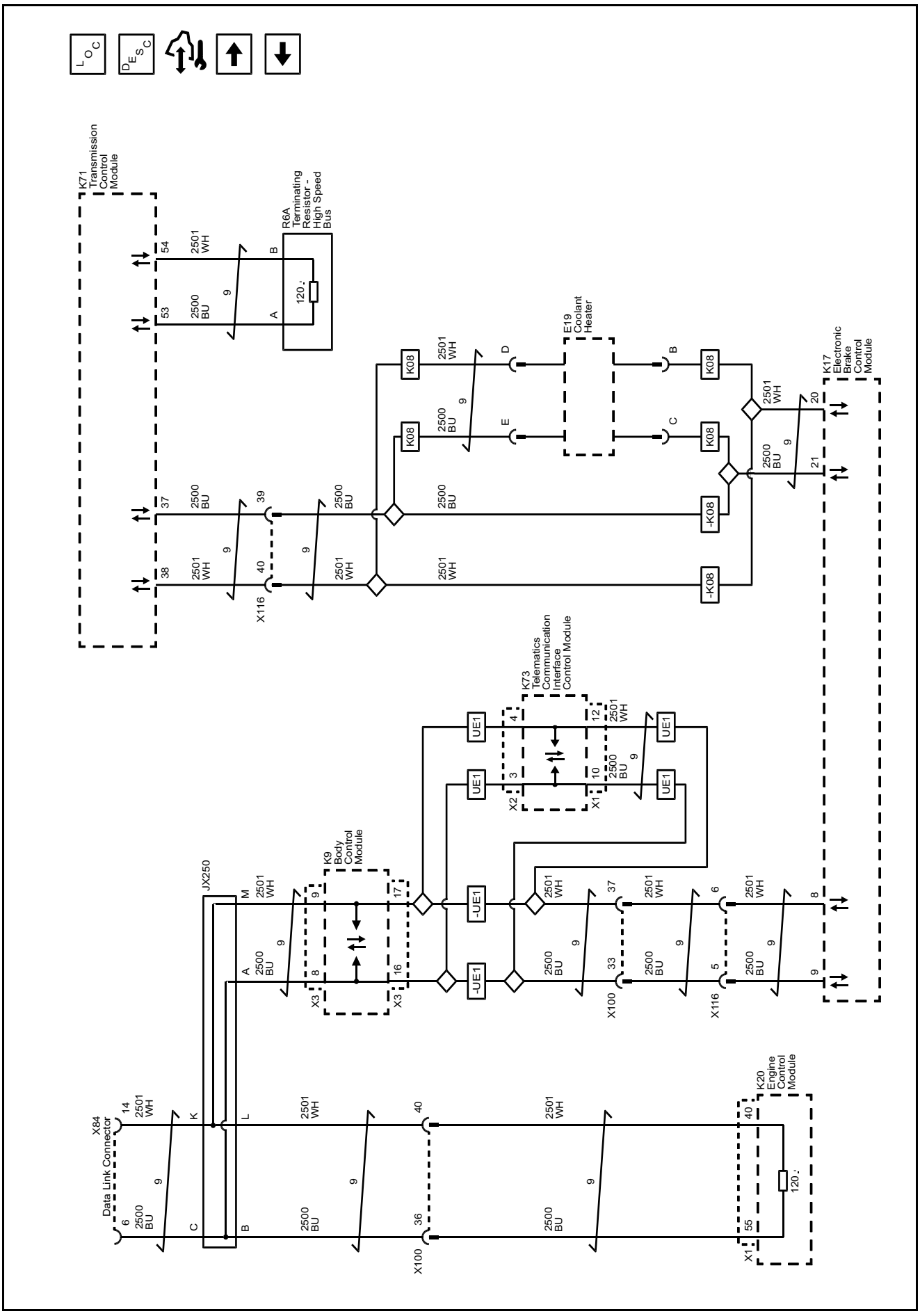
cardiagn.com

Data Communication Schematics (High Speed GMLAN (Gas))



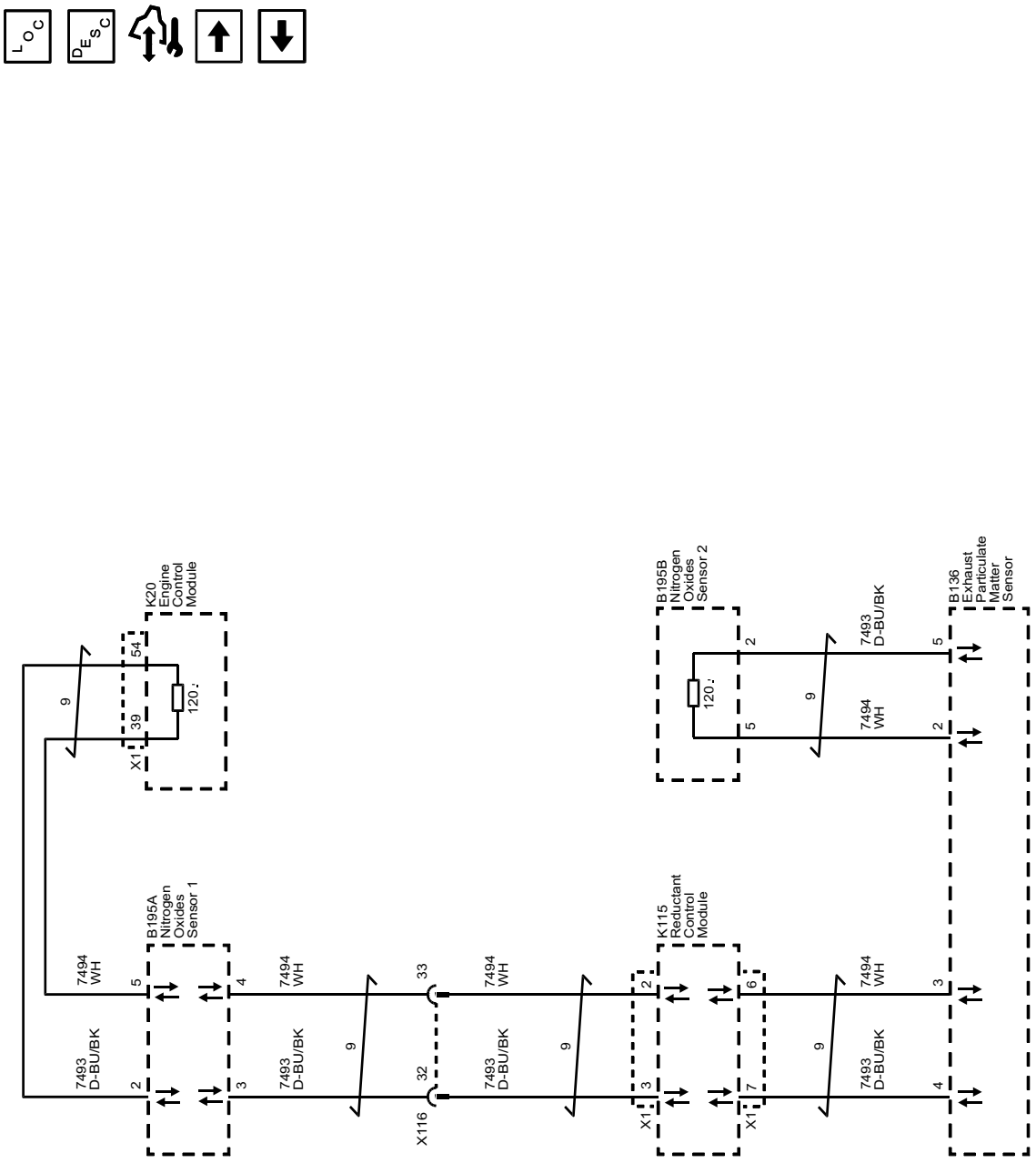
cardiagn.com

Data Communication Schematics (High Speed GMLAN (Diesel))



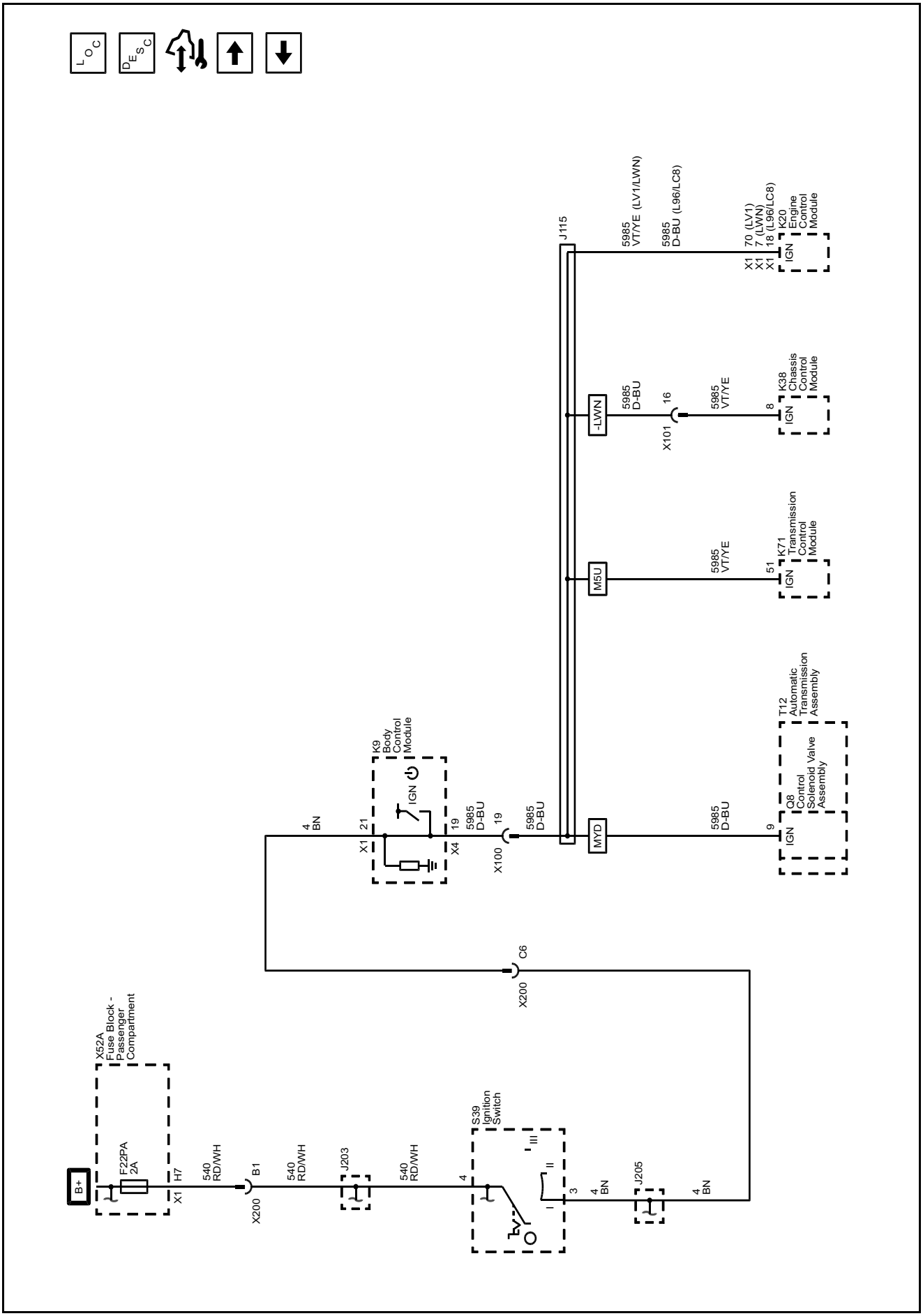
cardiagn.com

Data Communication Schematics (Powertrain High Speed GMLAN (LWN))



cardiagn.com

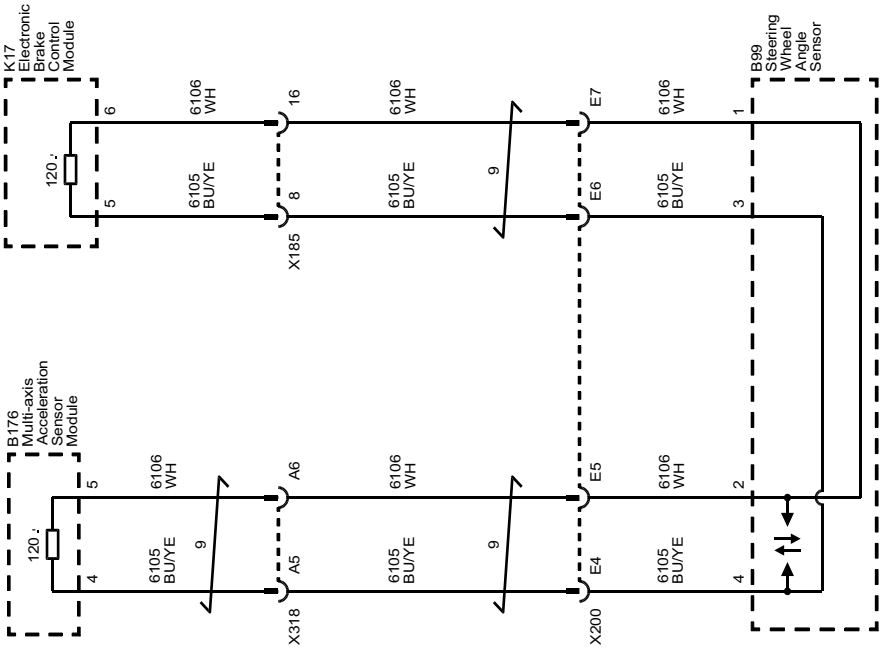
Data Communication Schematics (Accessory Wakeup)



cardiagn.com

Data Communication Schematics (Chassis High Speed GMLAN)

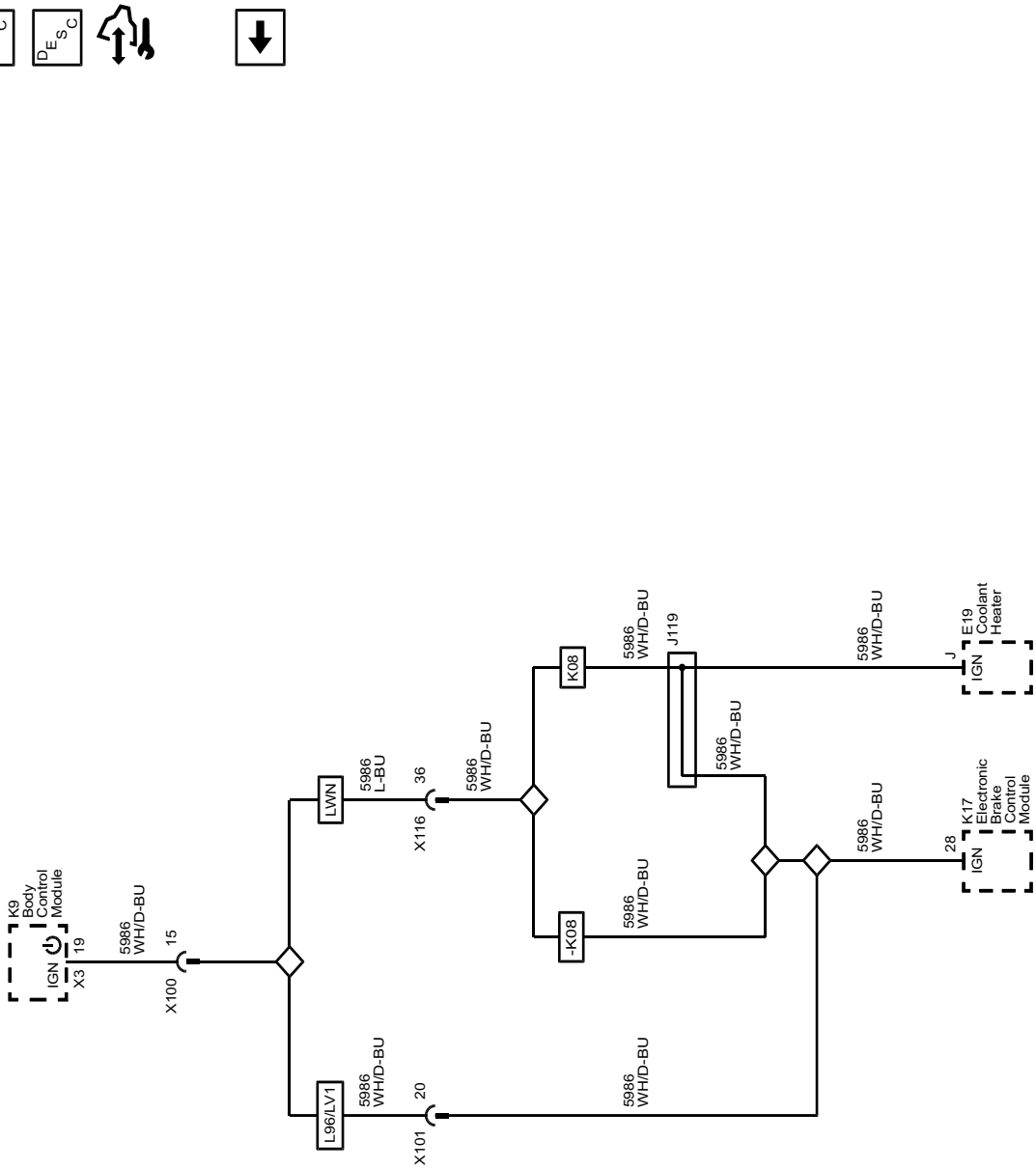




4940070

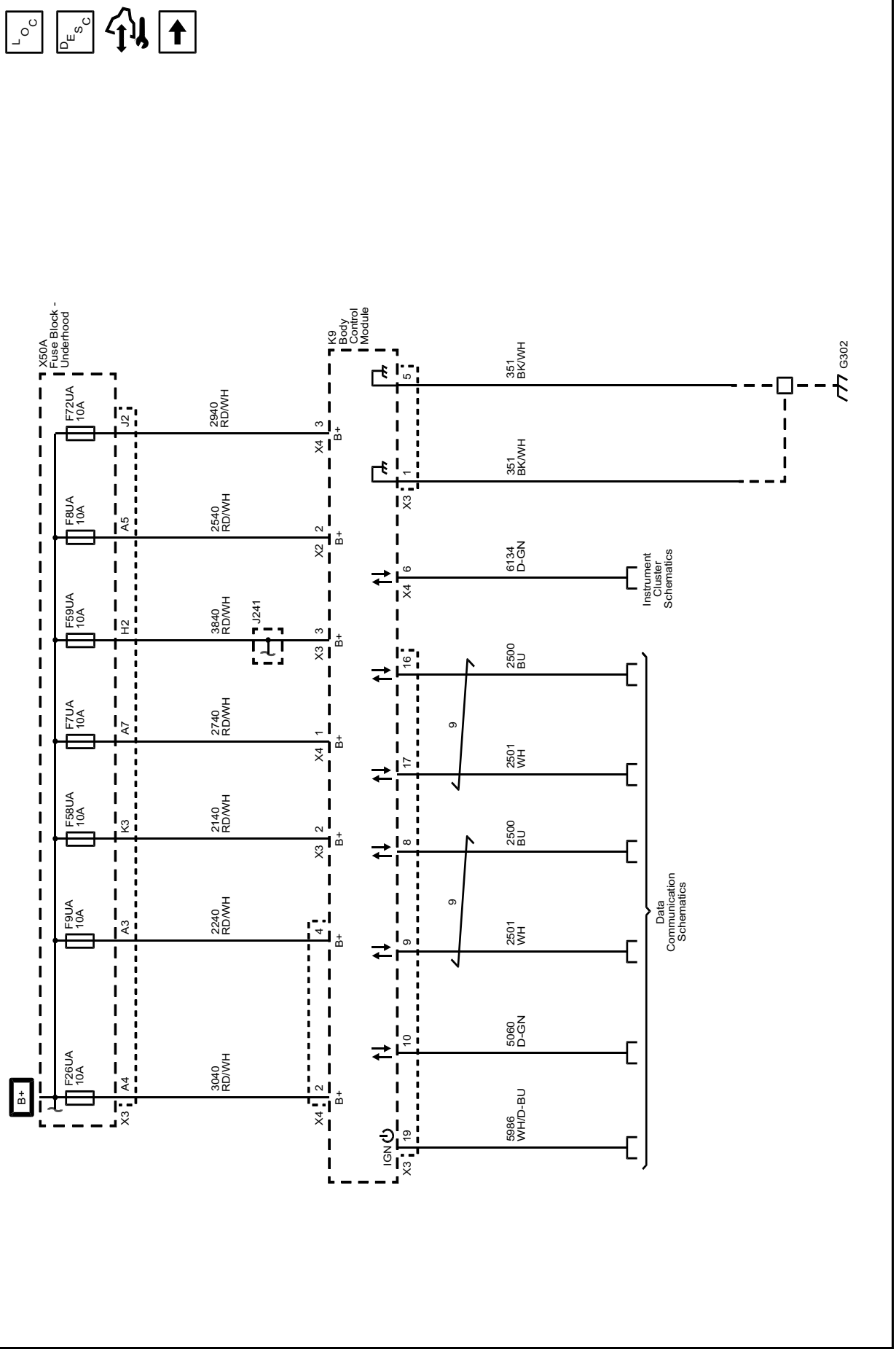
cardiagn.com

Data Communication Schematics (Communications Enable)



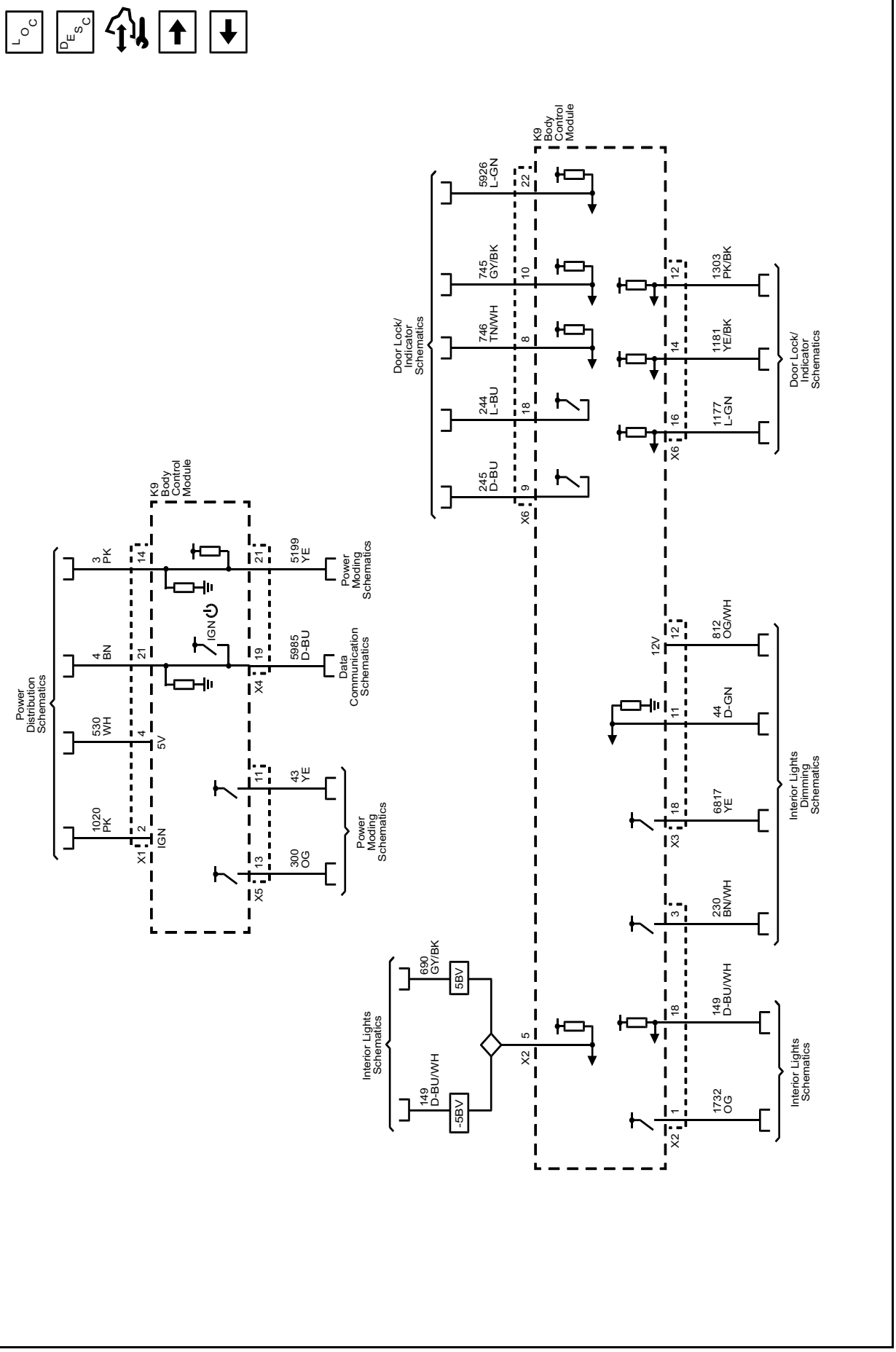
cardiagn.com

Body Control System Schematics (BCM Power, Ground and Serial Data)



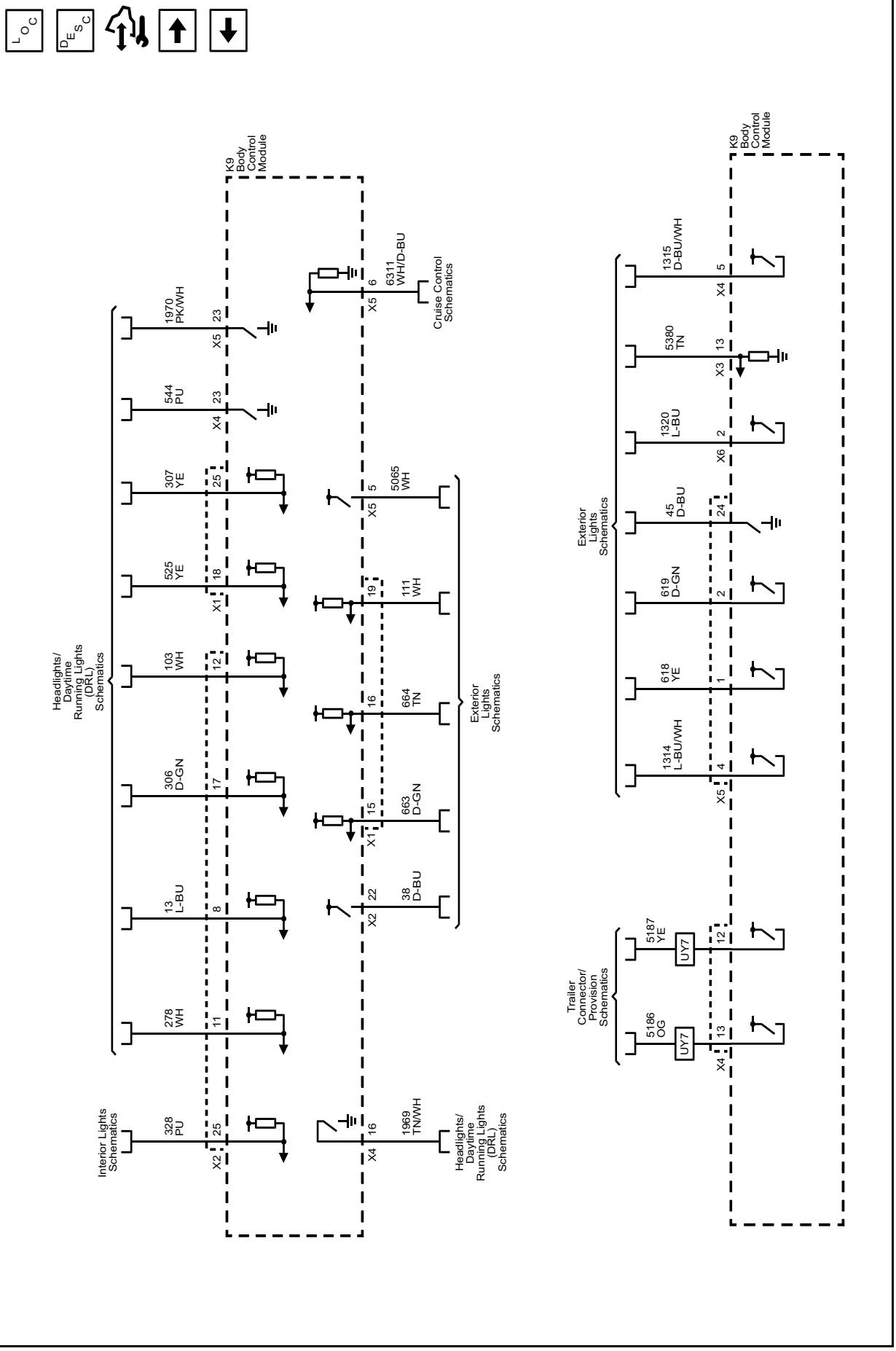
cardiagn.com

Body Control System Schematics (BCM Inputs and Outputs (1 of 3))



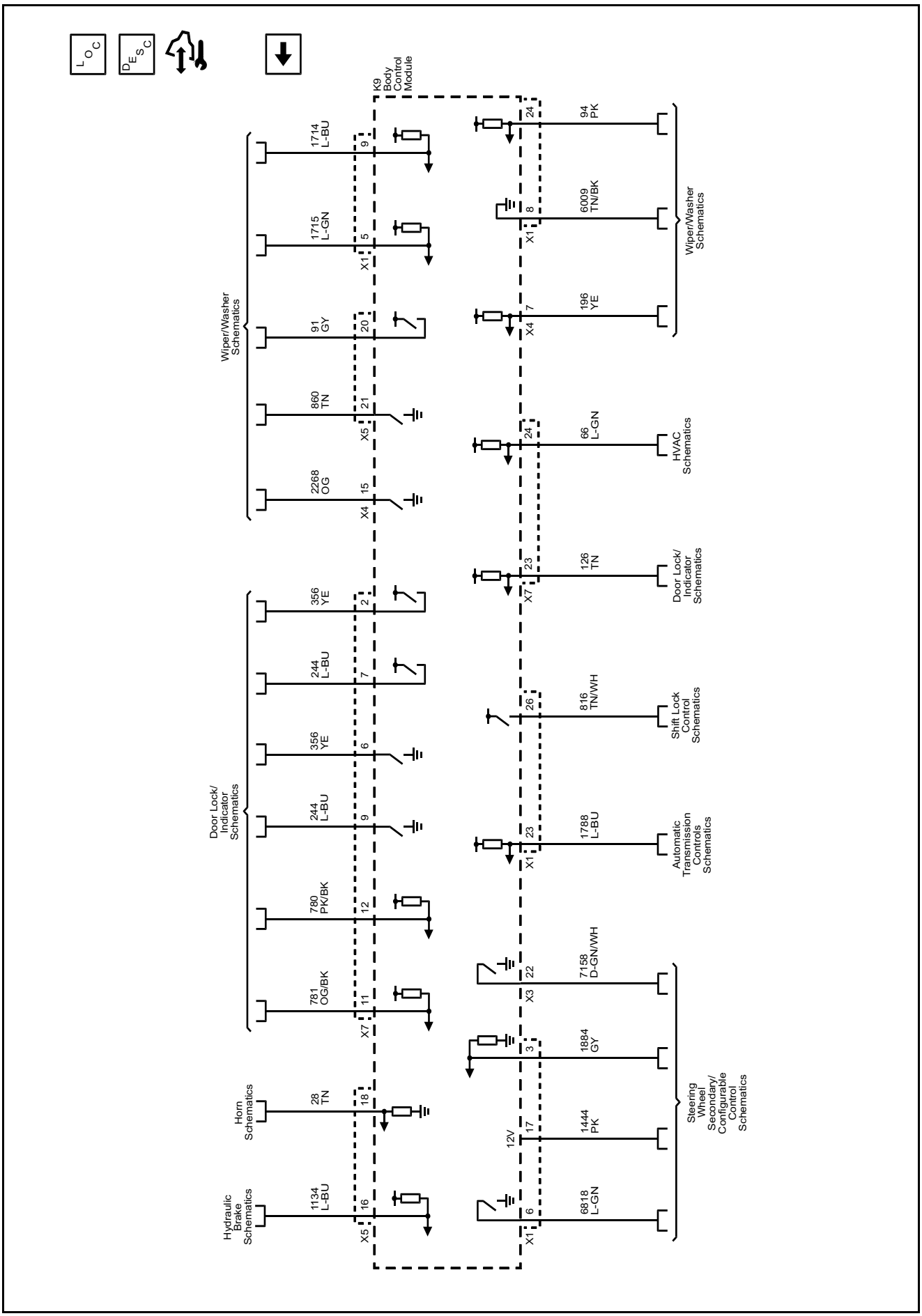
cardiagn.com

Body Control System Schematics (BCM Inputs and Outputs (2 of 3))



cardiagn.com

Body Control System Schematics (BCM Inputs and Outputs (3 of 3))



cardiagn.com

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 6-667* 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)—Refer to ABS Description and Operation.
- Cruise control system—Refer to Cruise Control Description and Operation.
- Exterior lighting—Refer to *Exterior Lighting Systems Description and Operation on page 2-23*.
- Horn system —Refer to *Horns System Description and Operation on page 2-7*.
- Instrument cluster indicator control—Refer to Instrument Cluster Description and Operation.
- Interior lighting—Refer to *Interior Lighting Systems Description and Operation on page 2-24*.
- Power door lock system —Refer to *Power Door Locks Description and Operation on page 2-37*.
- Rear window defogger system —Refer to *Rear Window Defogger Description and Operation on page 2-6*.
- Remote function actuation (RFA) control—Refer to *Keyless Entry System Description and Operation on page 7-15*.
- Retained accessory power (RAP)—Refer to *Retained Accessory Power Description and Operation on page 6-668*.
- Shift lock control system —Refer to *Automatic Transmission Shift Lock Control Description and Operation on page 8-5*.
- Starting system—Refer to *Starting System Description and Operation on page 4-17*.
- Supplemental inflatable restraint (SIR) system — Refer to Supplemental Inflatable Restraint System Description and Operation.
- Theft deterrent—Refer to Immobilizer Description and Operation.
- Wiper/Washer system functions—Refer to Wiper/ Washer System Description and Operation.

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 6-15* 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 is a differential bus. The high speed GMLAN serial data (+) and high speed GMLAN serial data (−)

cardiagn.com

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.

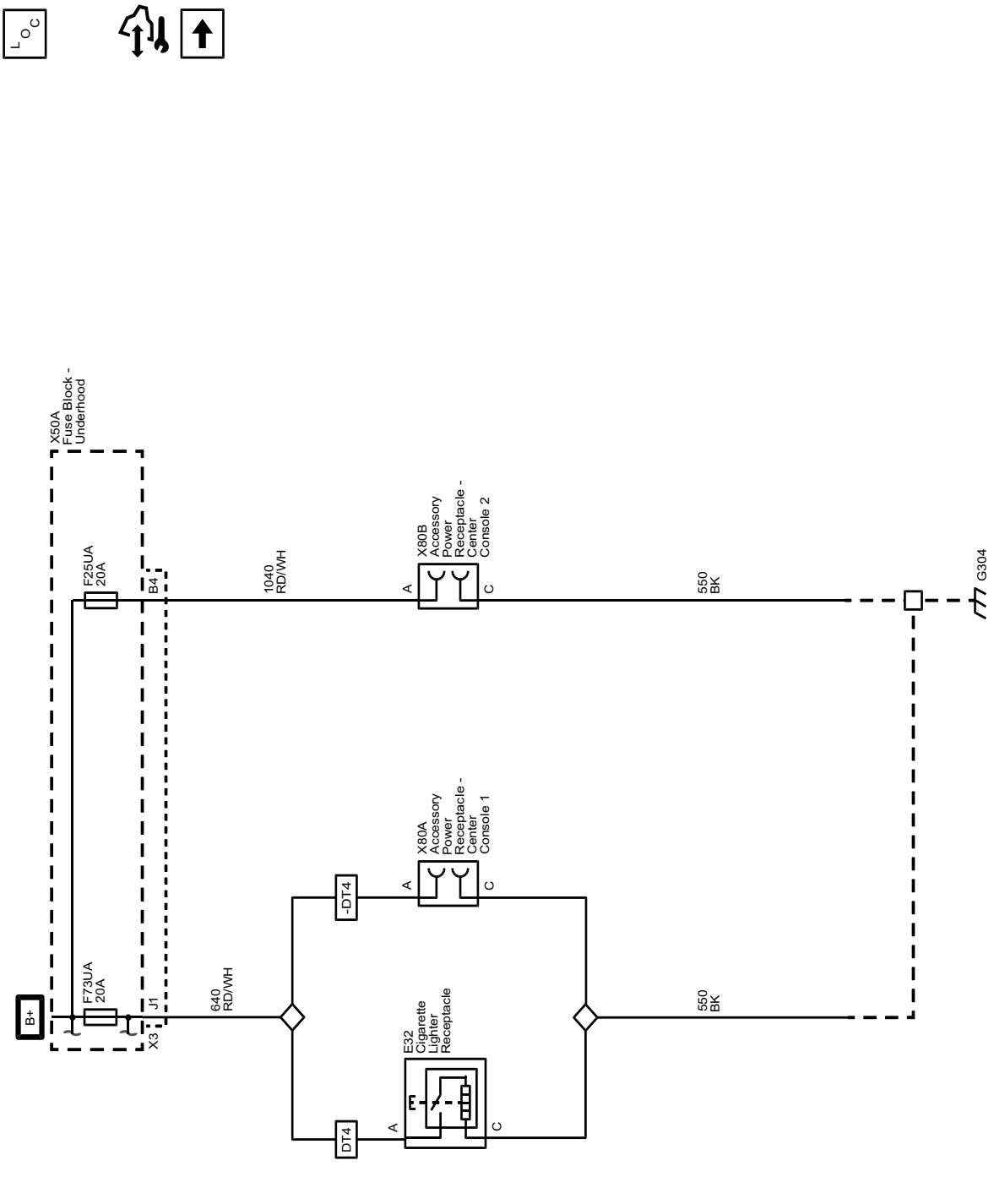
cardiagn.com

Power Outlets

Schematic and Routing Diagrams

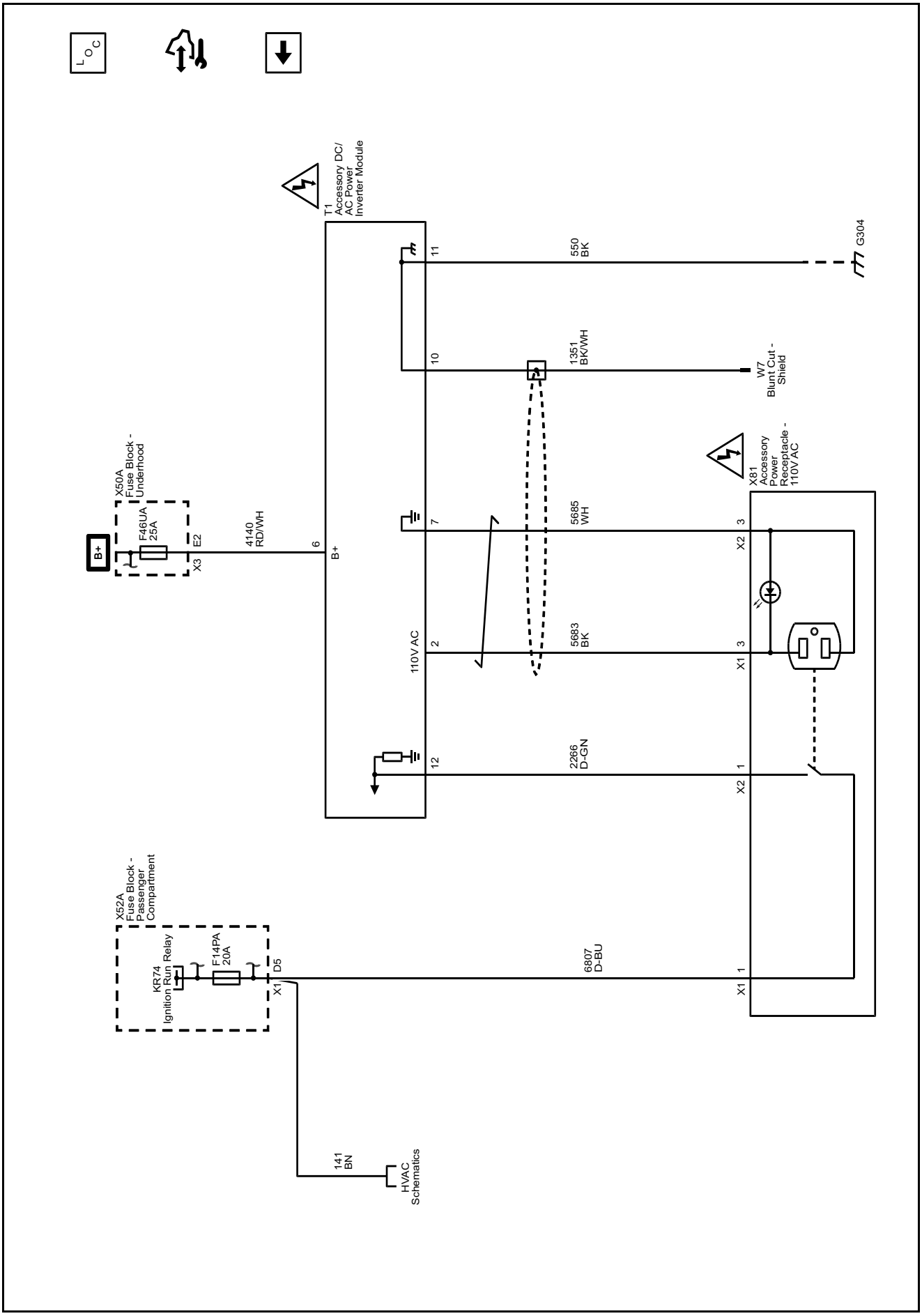
cardiagn.com

Cigar Lighter/Power Outlet Schematics (Cigar Lighter/Power Outlet)



cardiagn.com

Cigar Lighter/Power Outlet Schematics (110V AC Outlet (KI4))



cardiagn.com

Description and Operation

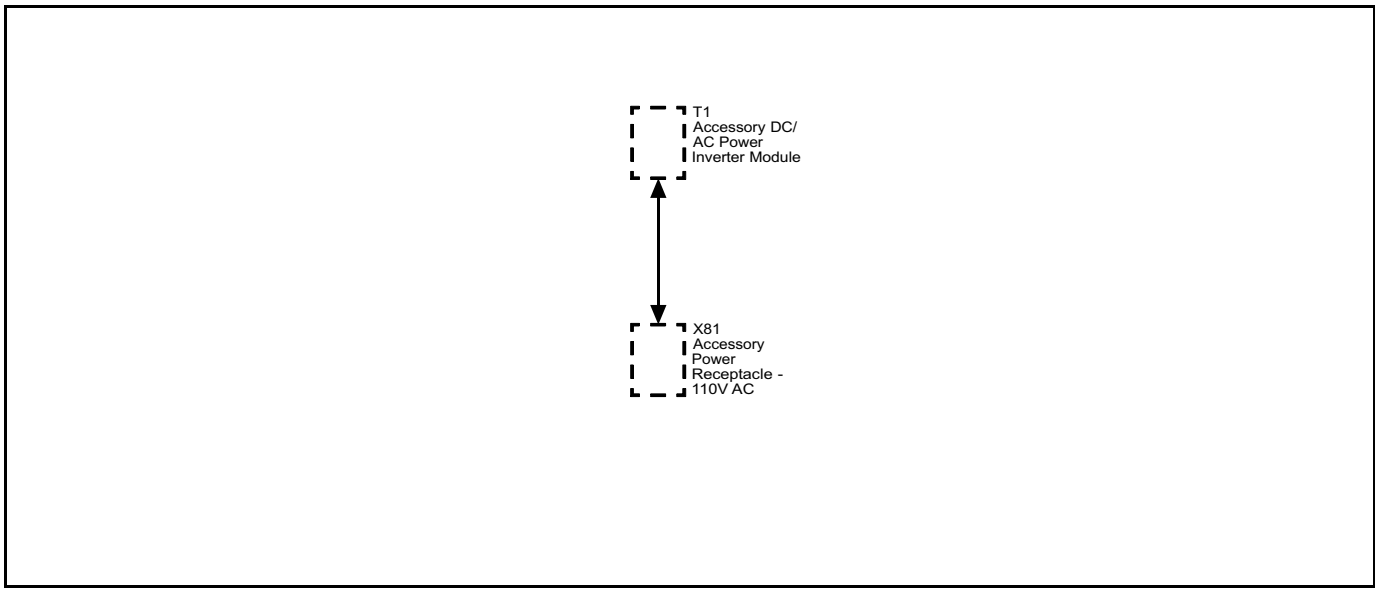
Power Outlets Description and Operation

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.

cardiagn.com

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.

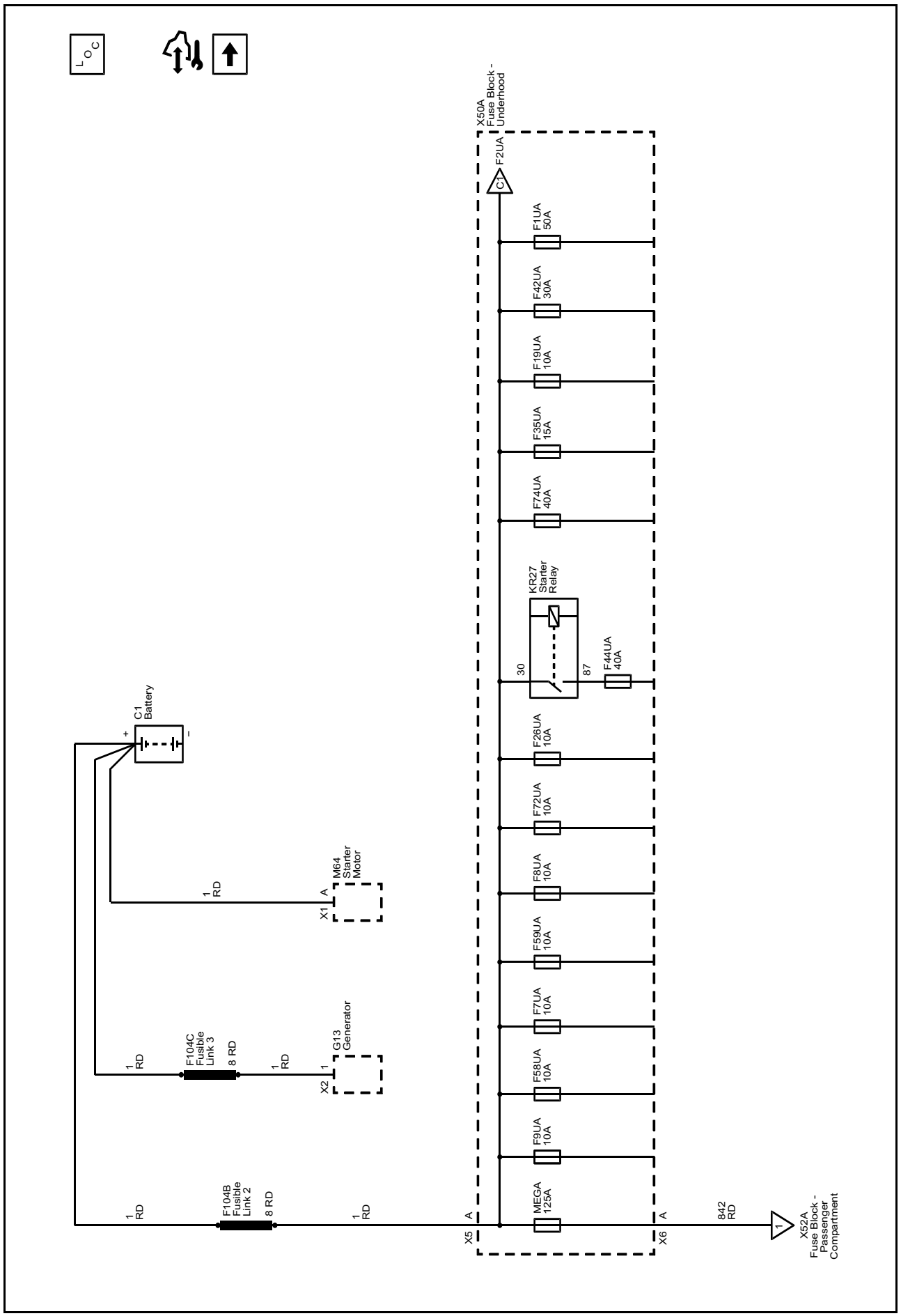
cardiagn.com

Wiring Systems and Power Management

Schematic and Routing Diagrams

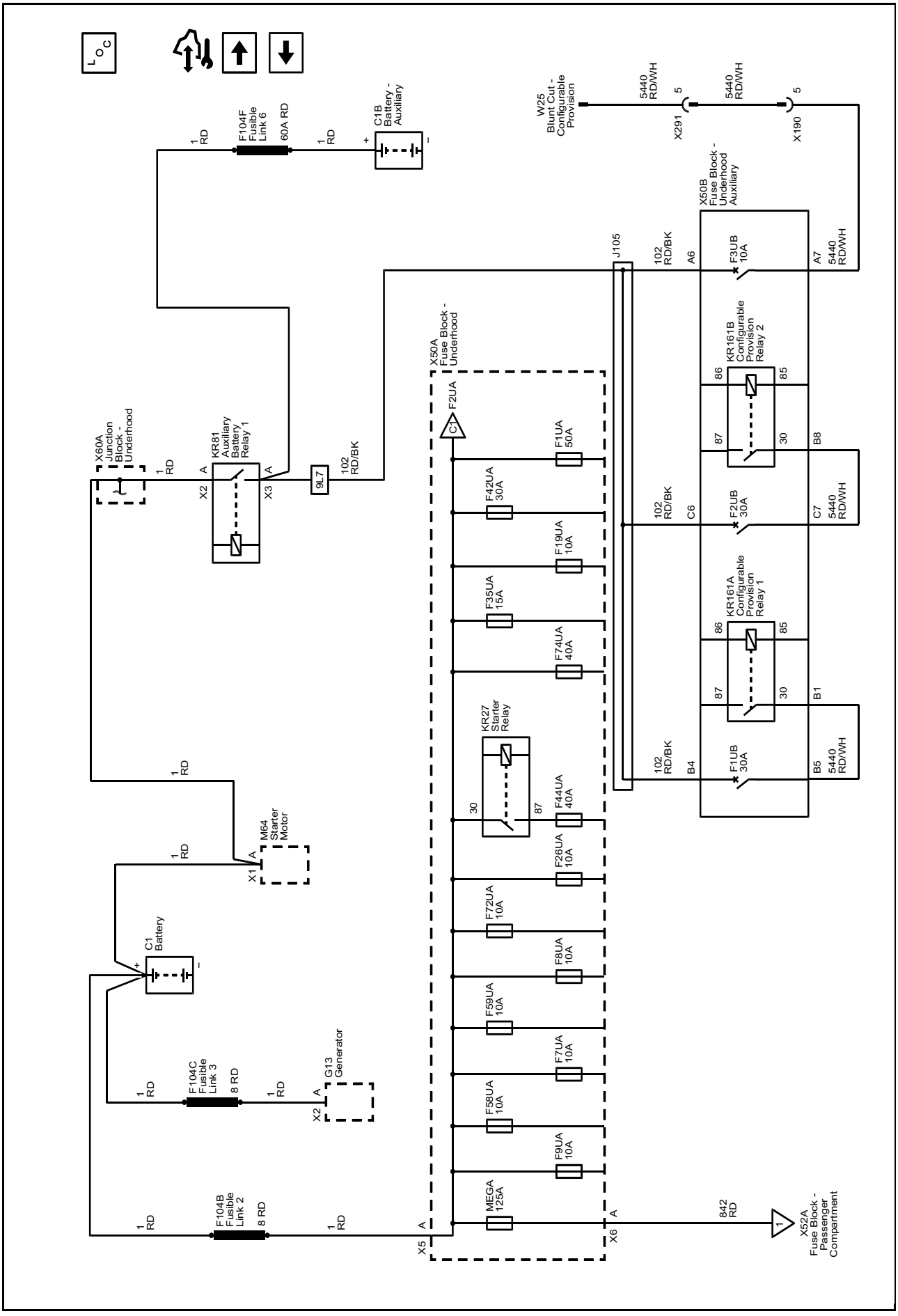
cardiagn.com

Power Distribution Schematics (Fusible Links and B+ Bus - Underhood Fuse Block (Gas with One Battery, 1 of 3))



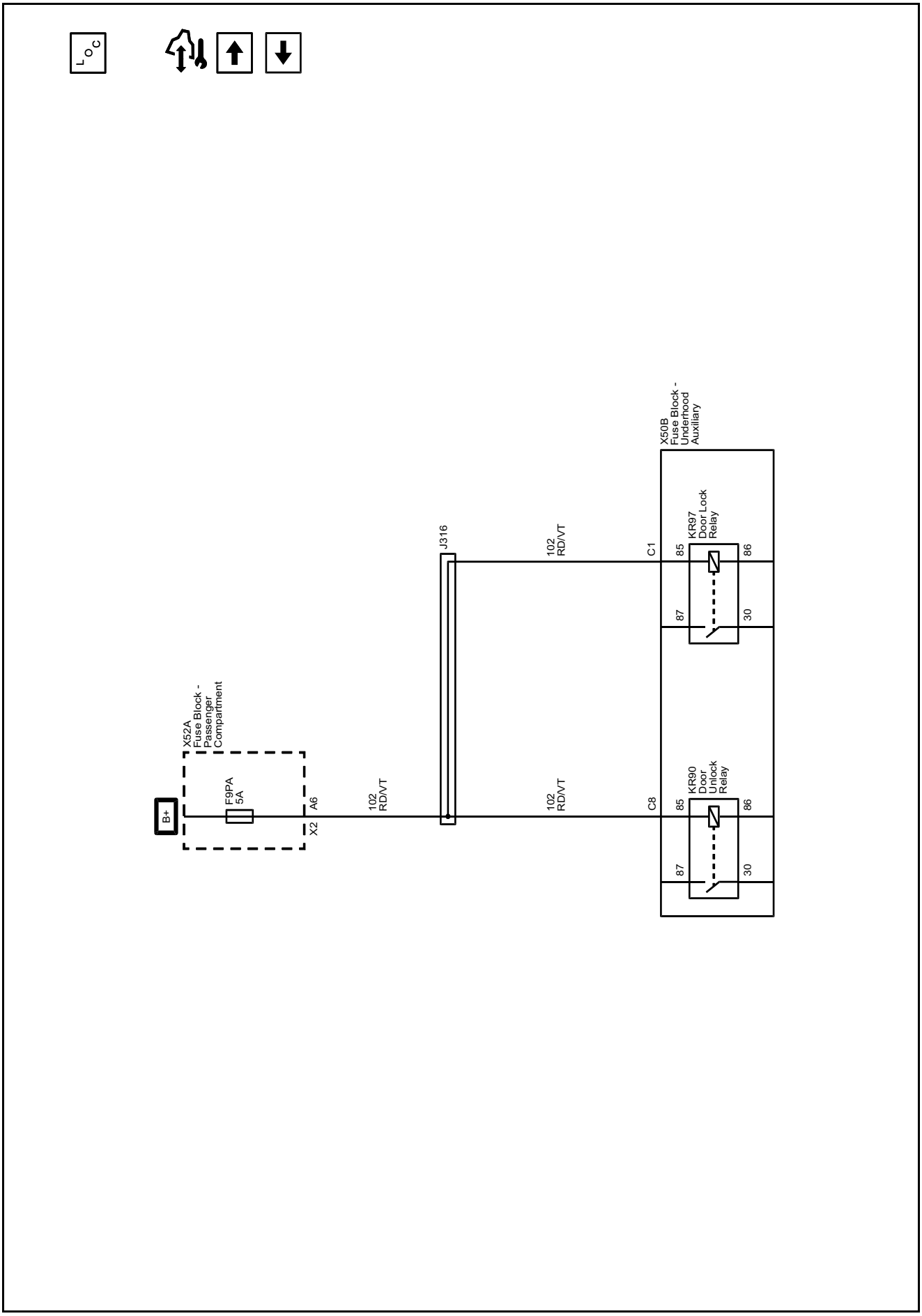
cardiagn.com

Power Distribution Schematics (Fusible Links and B+ Bus - Underhood Fuse Block (Gas with Two Batteries, 1 of 3) and Fuse Block - Underhood Auxiliary (9L7))



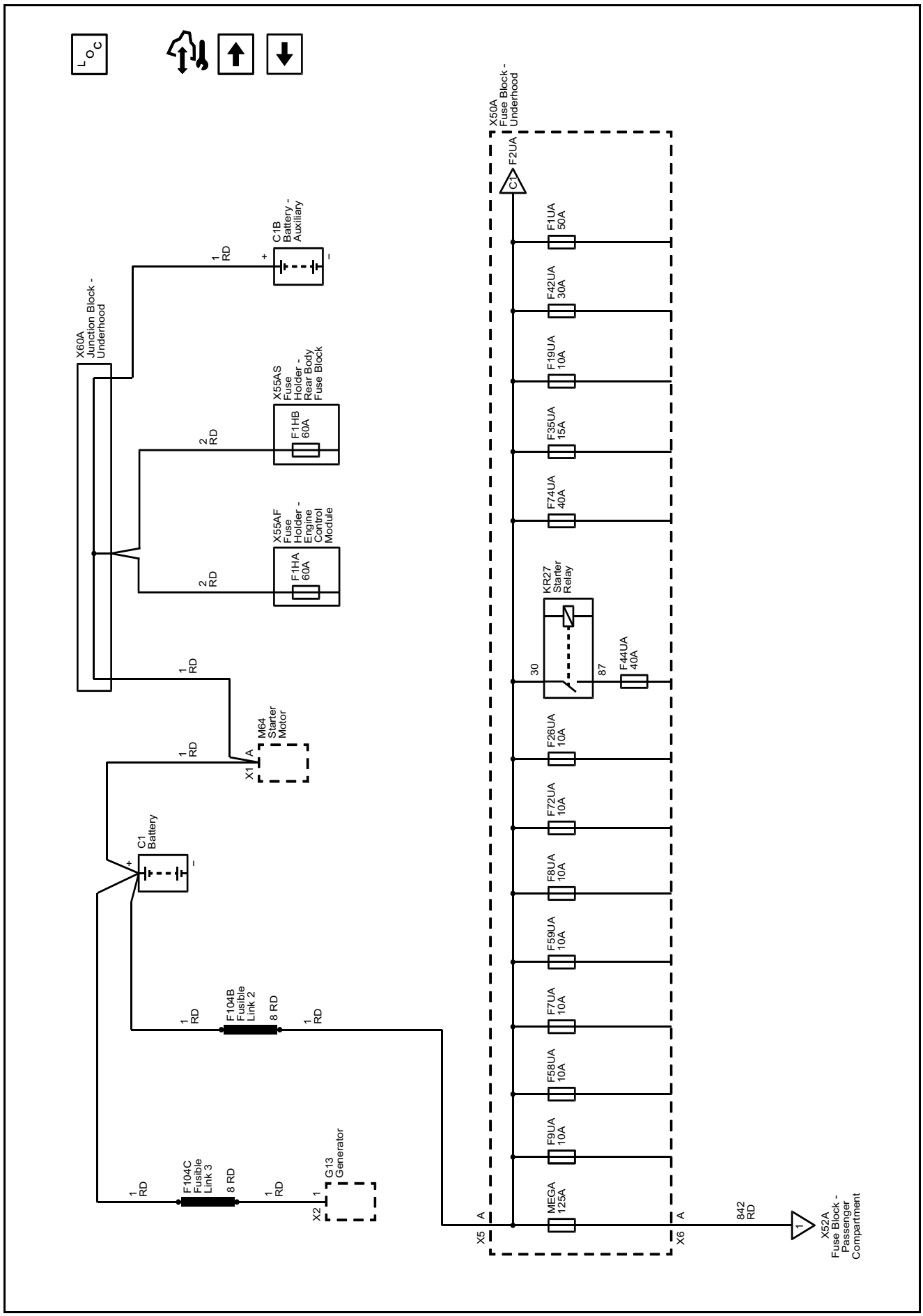
cardiagn.com

Power Distribution Schematics (Fuse Block - Underhood Auxiliary (AU3 with WRF))



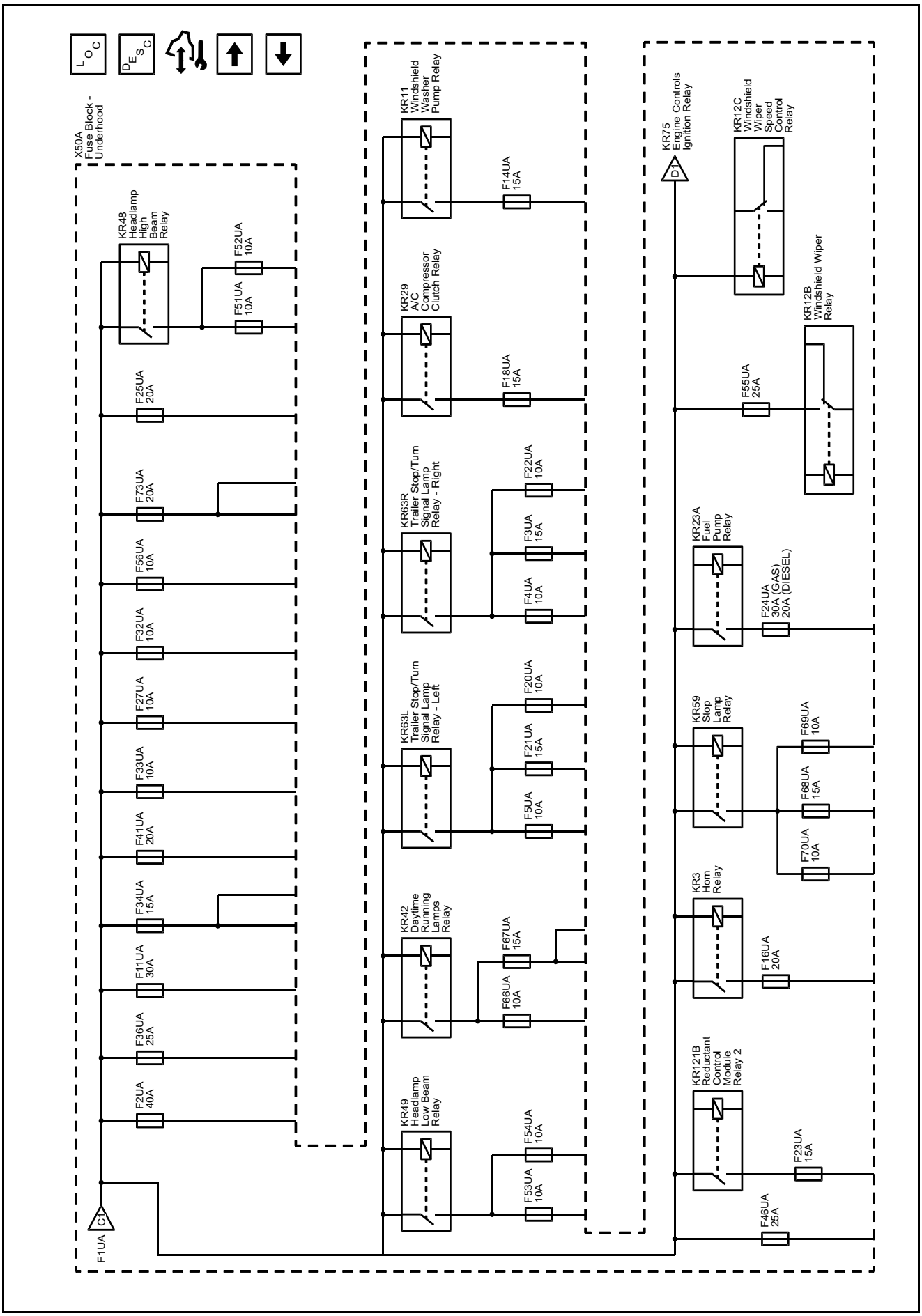
cardiagn.com

Power Distribution Schematics (Fusible Links and B+ Bus - Underhood Fuse Block (Diesel, 1 of 3))



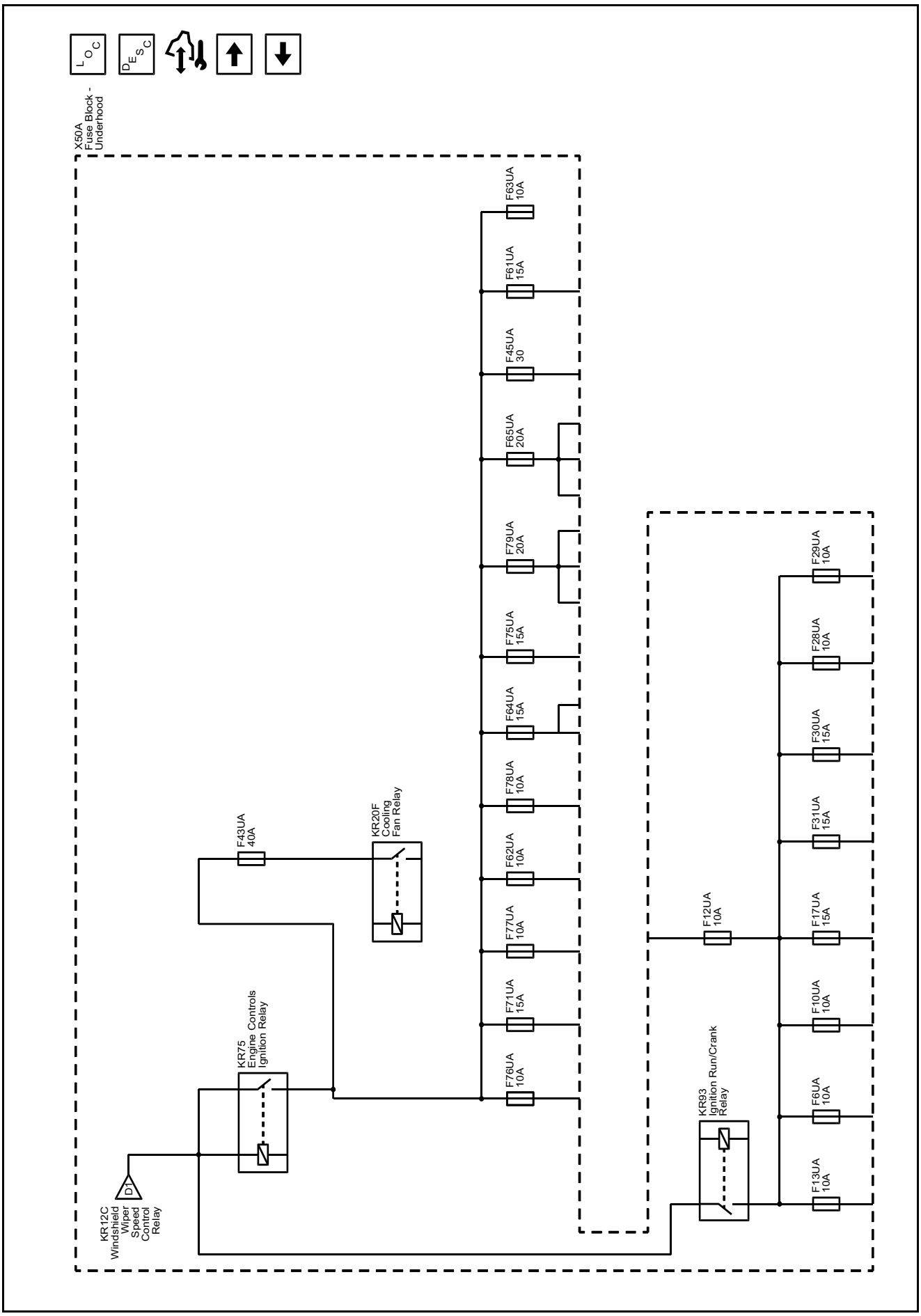
cardiagn.com

Power Distribution Schematics (B+ Bus - Underhood Fuse Block (2 of 3))



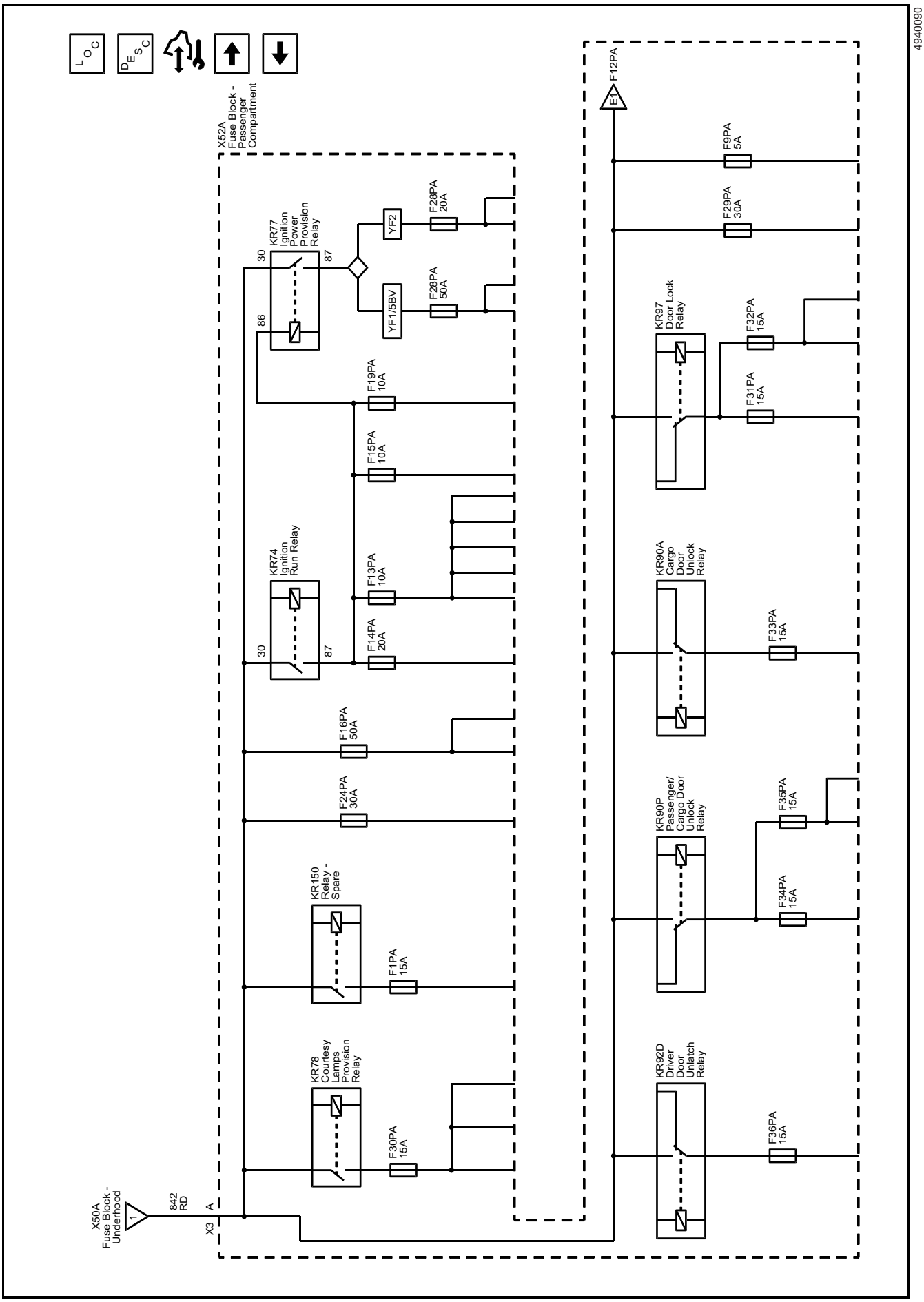
cardiagn.com

Power Distribution Schematics (B+ Bus - Underhood Fuse Block (3 of 3))



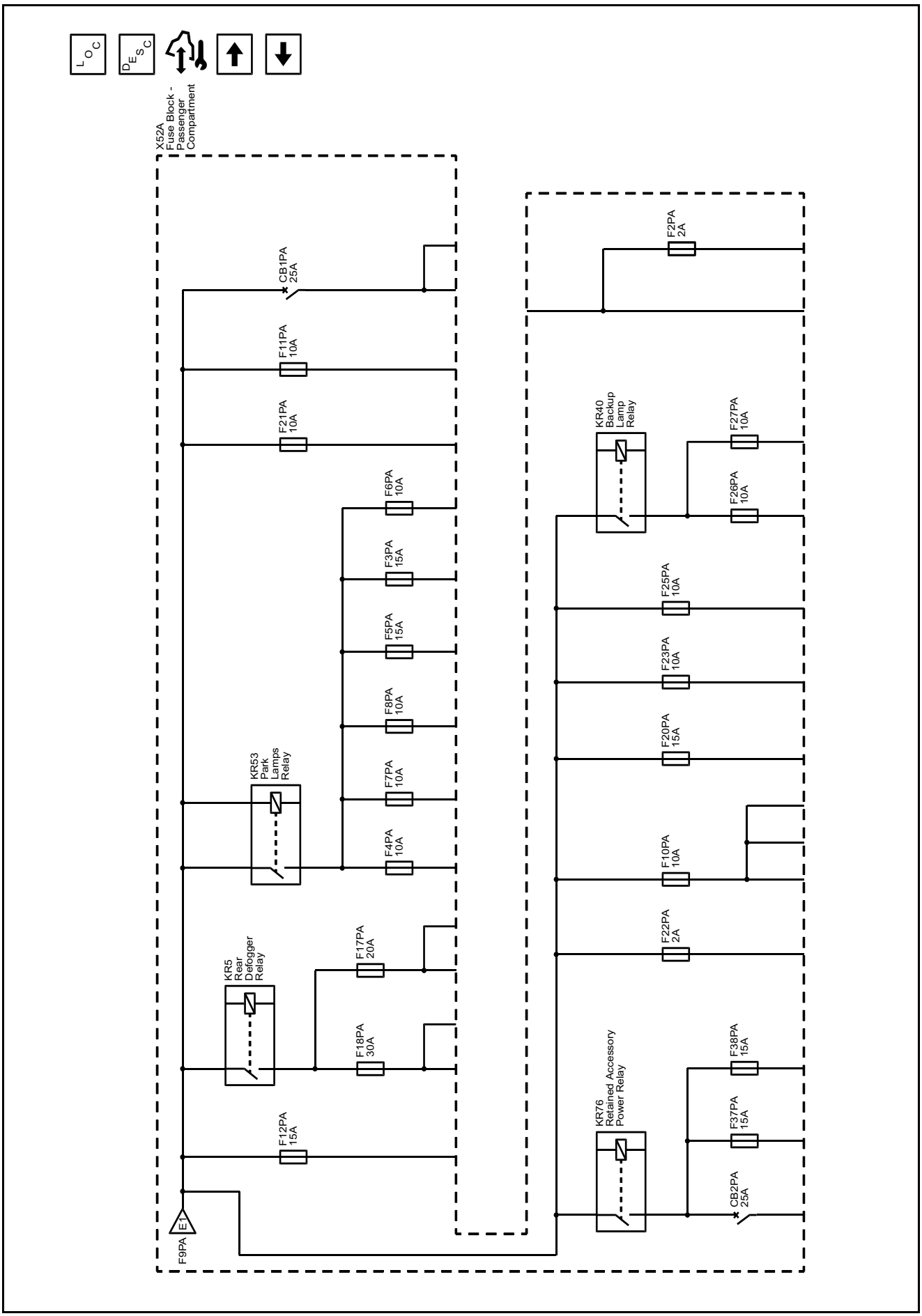
cardiagn.com

Power Distribution Schematics (B+ Bus - Passenger Compartment Fuse Block (1 of 2))



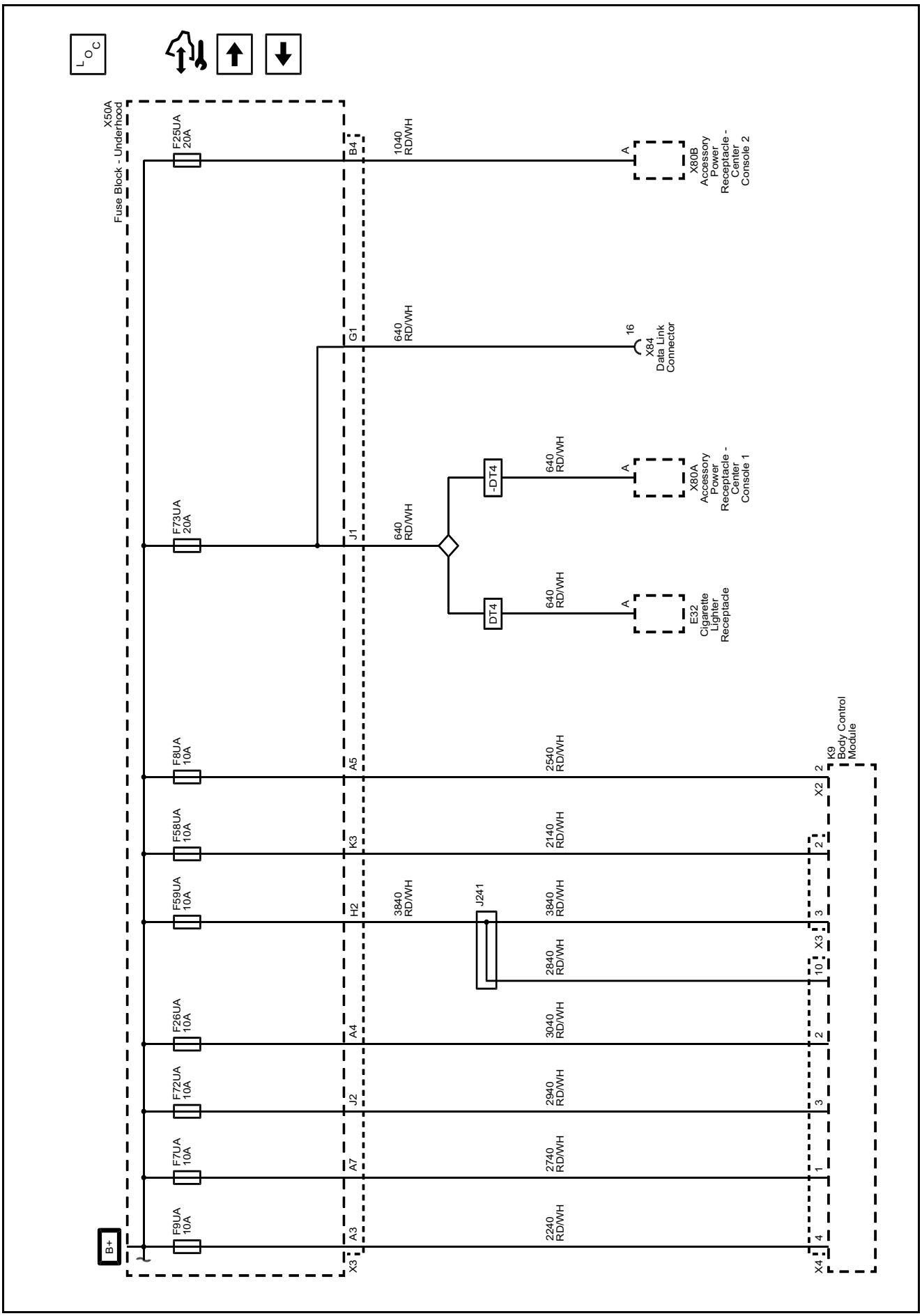
cardiagn.com

Power Distribution Schematics (B+ Bus - Passenger Compartment Fuse Block (2 of 2))



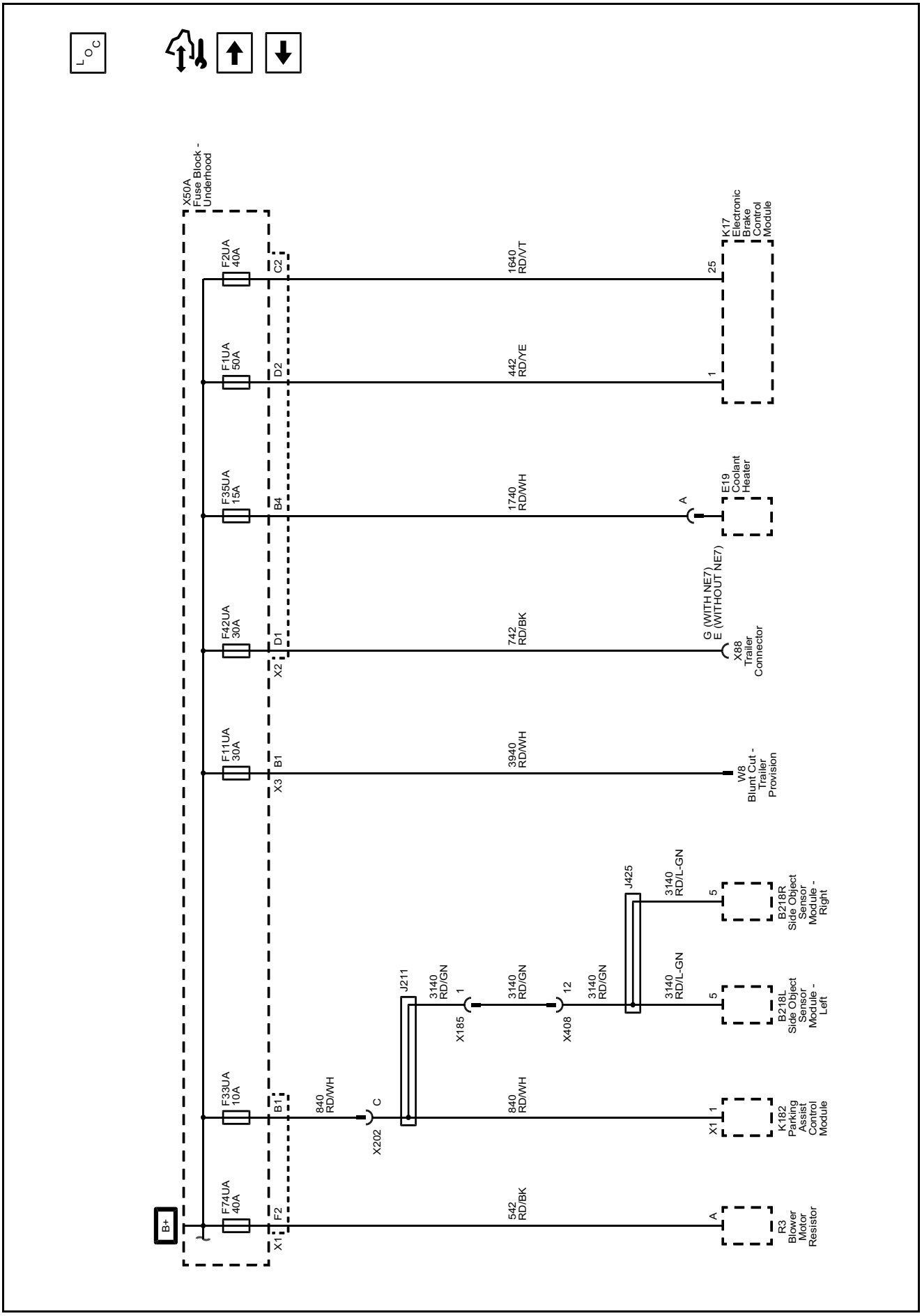
cardiagn.com

Power Distribution Schematics (Fuses F7UA, F8UA, F9UA, F25UA, F26A, F58UA, F59UA, F72UA, and F73UA)



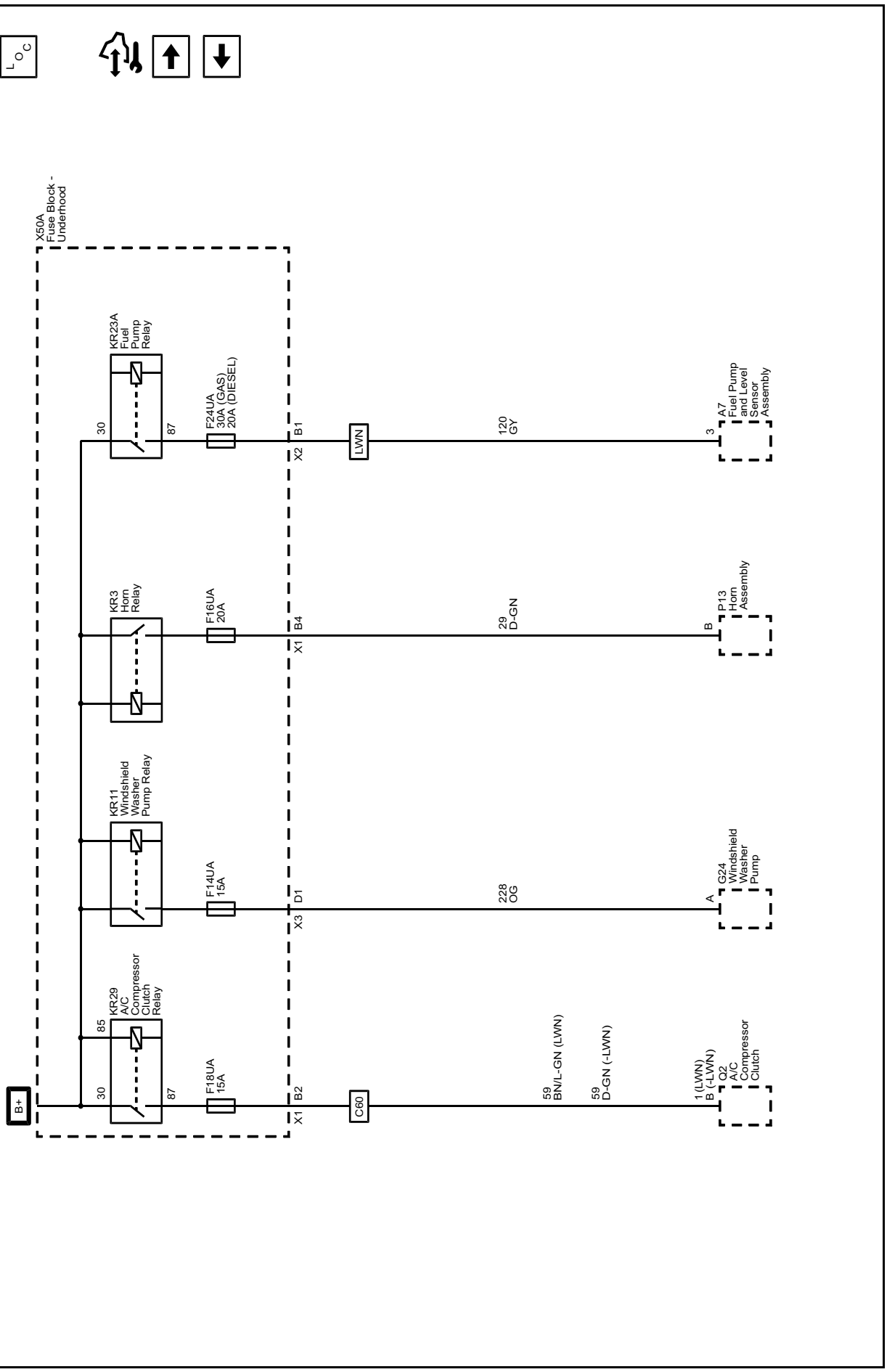
cardiagn.com

Power Distribution Schematics (Fuses F1UA, F2UA, F11UA, F33UA, F35UA, F42UA, and F74UA)



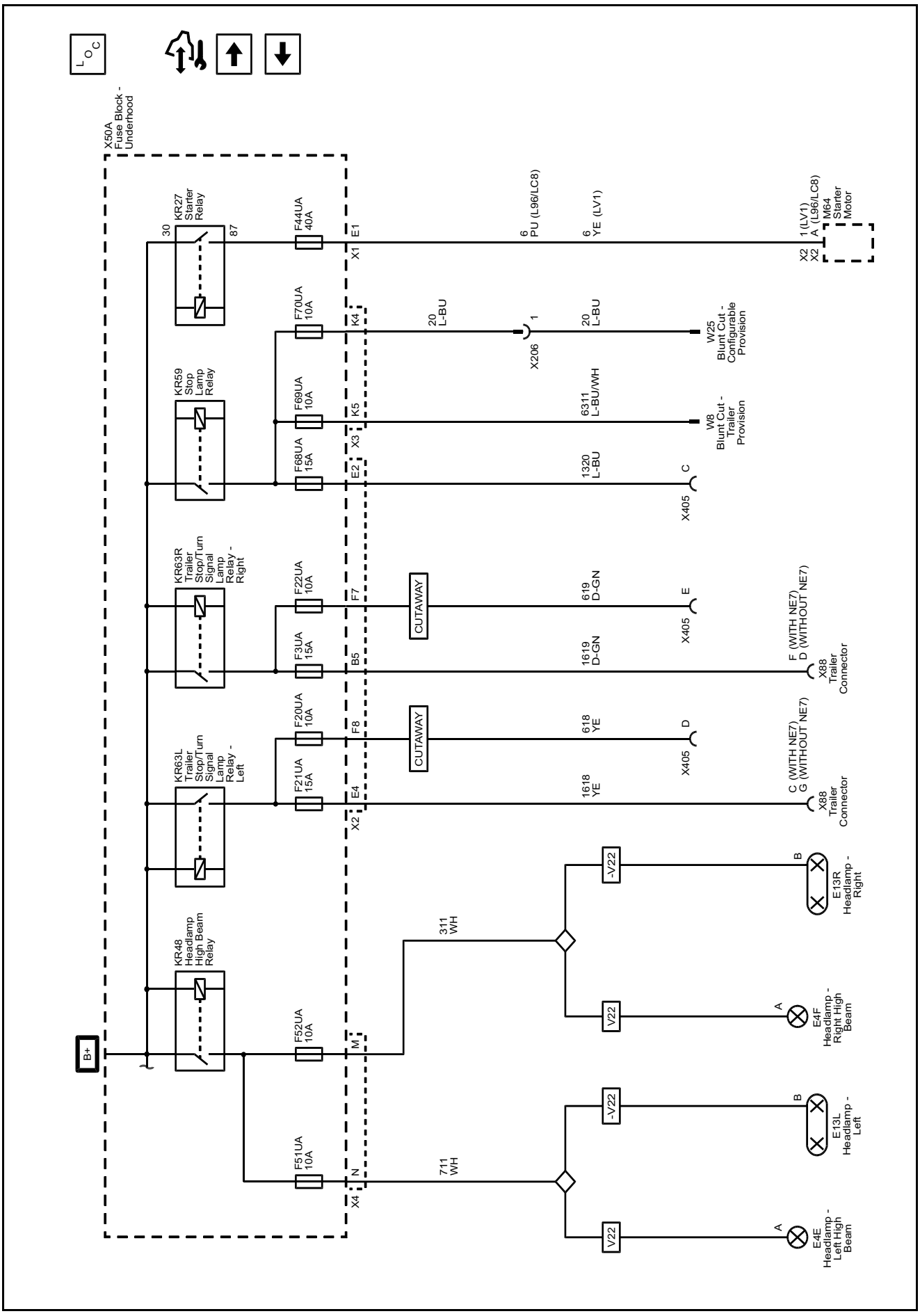
cardiagn.com

Power Distribution Schematics (Fuses F14UA, F16UA, F18UA, and F24UA)



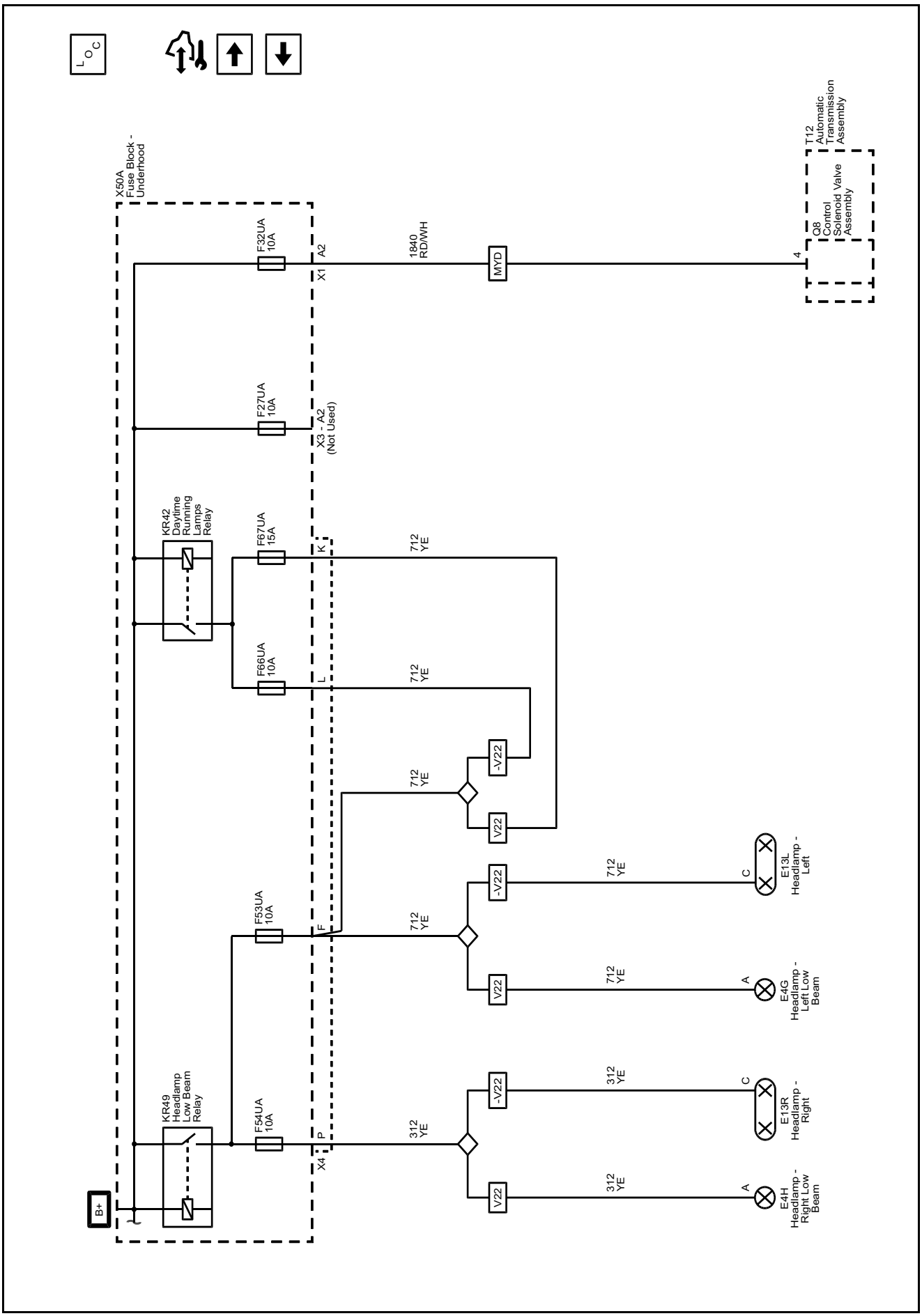
cardiagn.com

Power Distribution Schematics (Fuses F3UA, F21UA, F44UA, F51UA, F52UA, F68UA, F69UA, and F70UA)



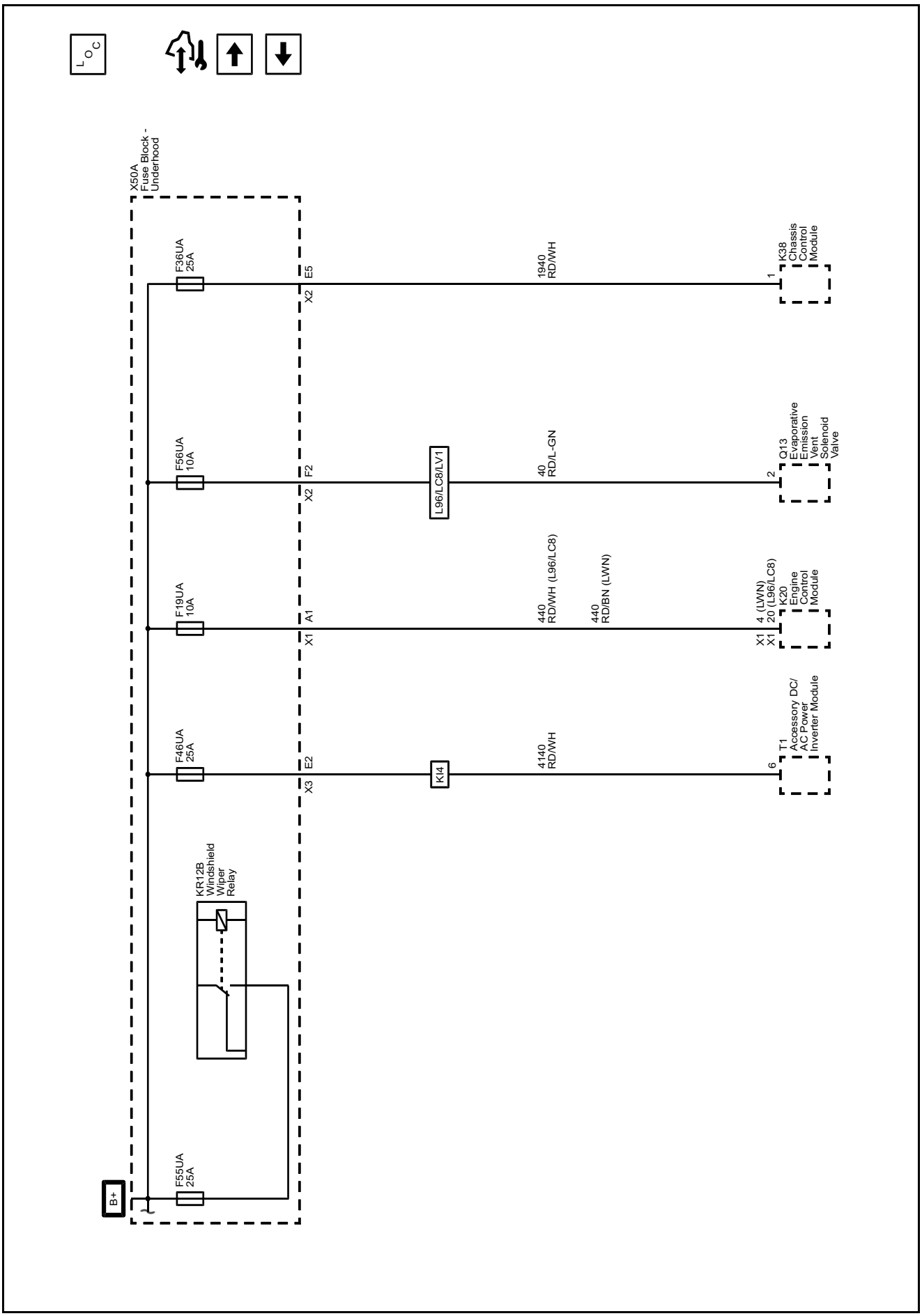
cardiagn.com

Power Distribution Schematics (Fuses F27UA, F32UA, F53UA, F54UA, F66UA, and F67UA)



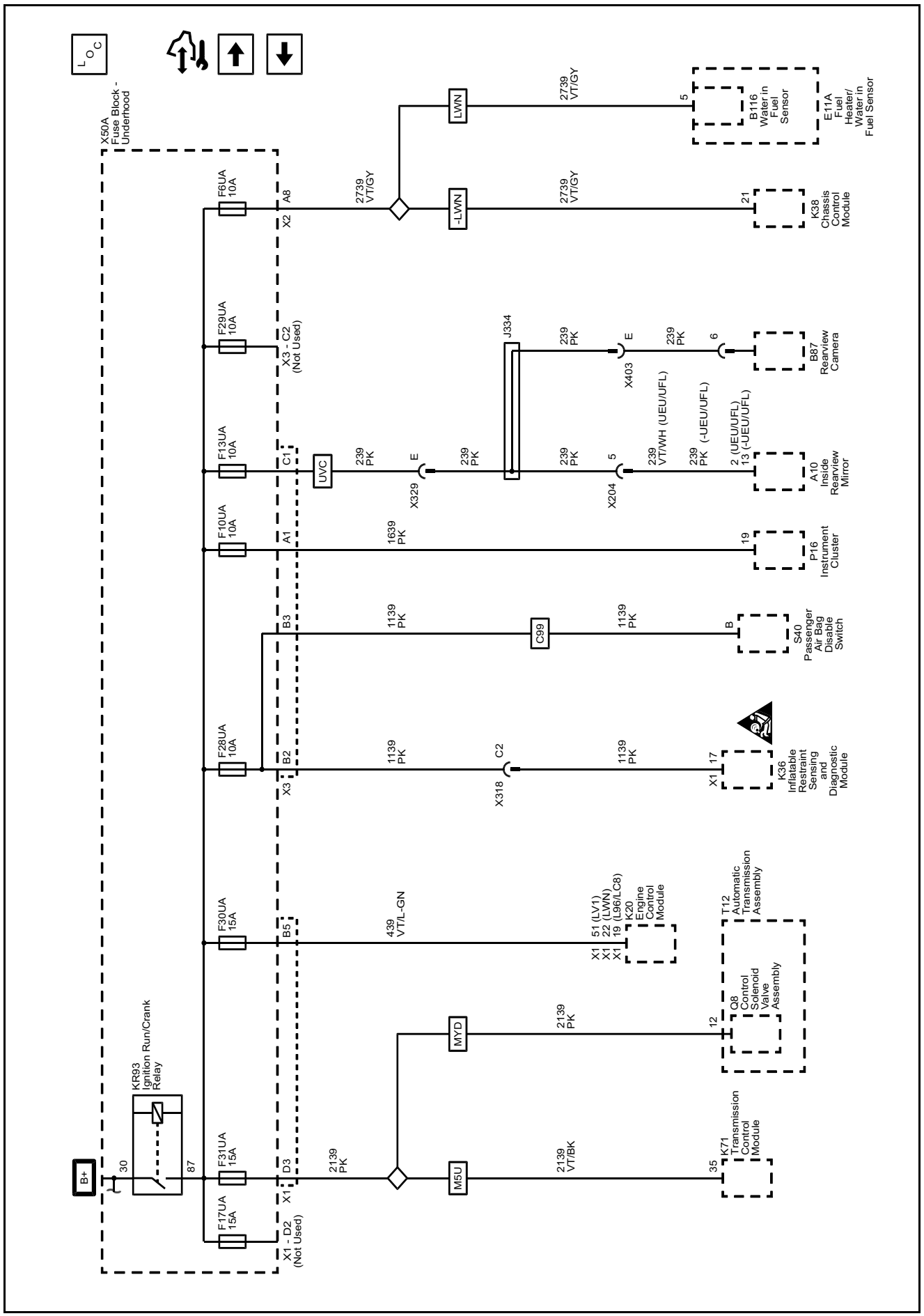
cardiagn.com

Power Distribution Schematics (Fuses F19UA, F36UA, F46UA, and F56UA)



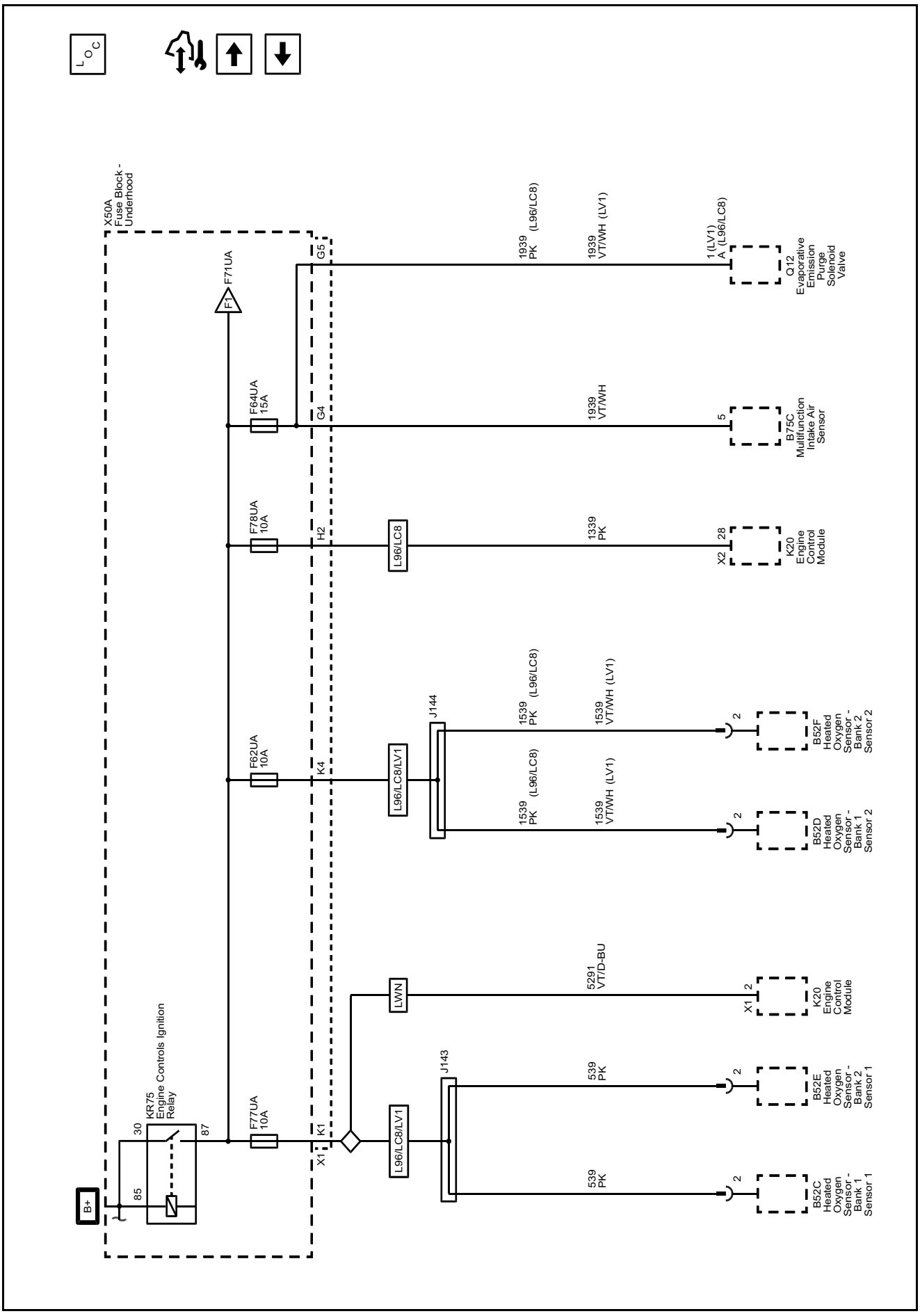
cardiagn.com

Power Distribution Schematics (Fuses F6UA, F10UA, F17UA, F28UA, F29UA, F30UA, and F31UA)



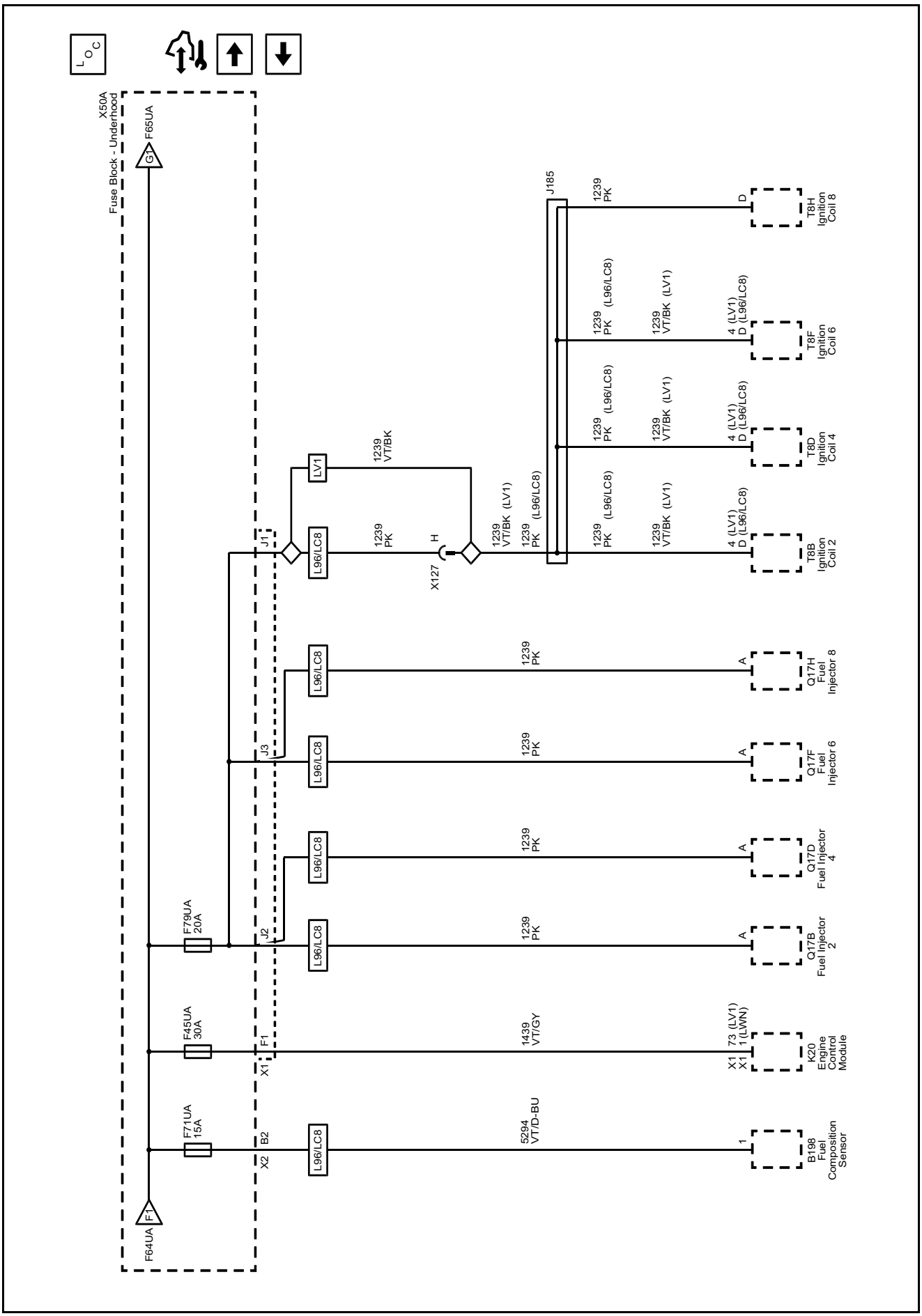
cardiagn.com

Power Distribution Schematics (Fuses F62UA, F64UA, F76UA, F77UA, and F78UA)



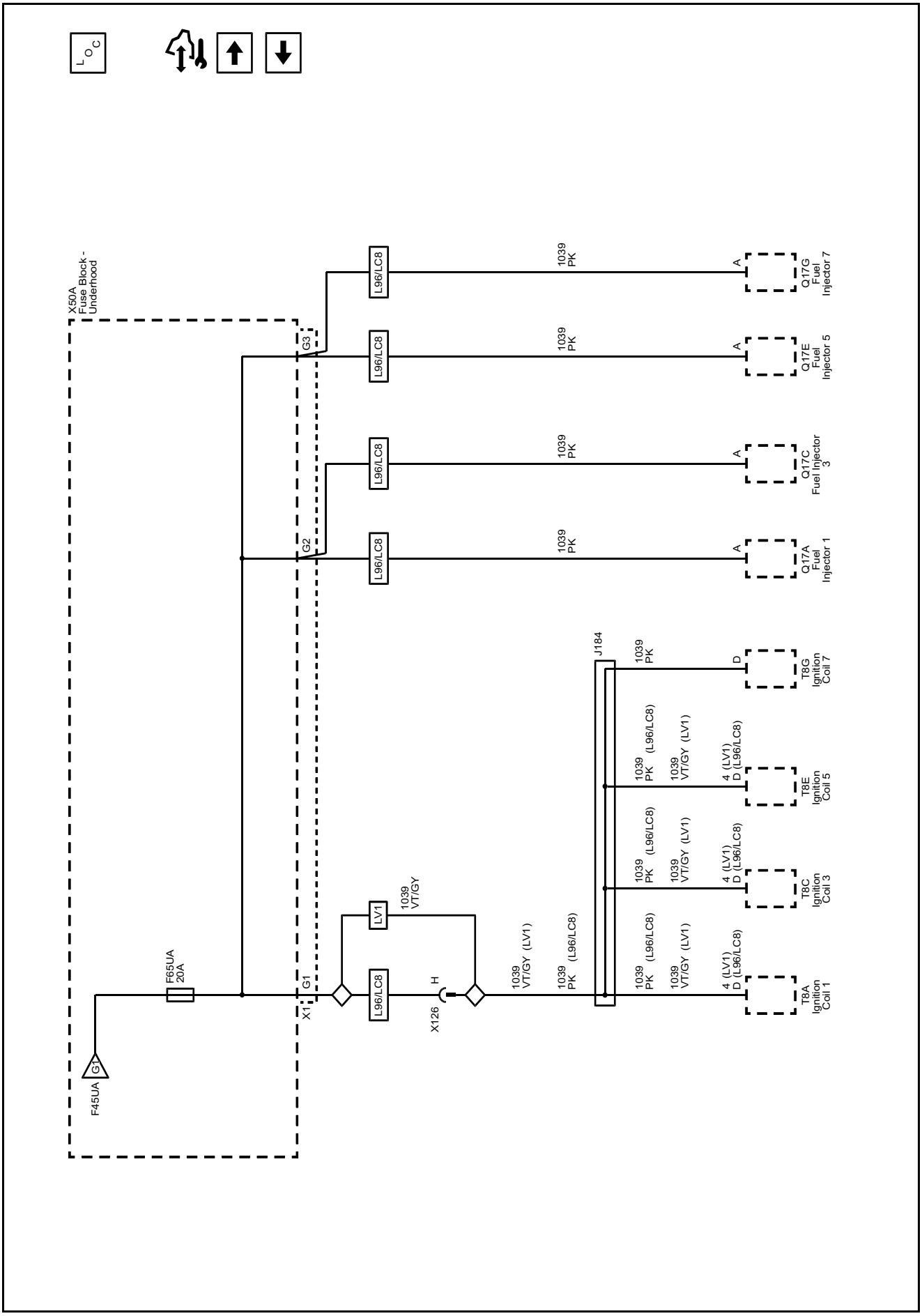
cardiagn.com

Power Distribution Schematics (Fuses F45UA, F71UA, and F79UA)



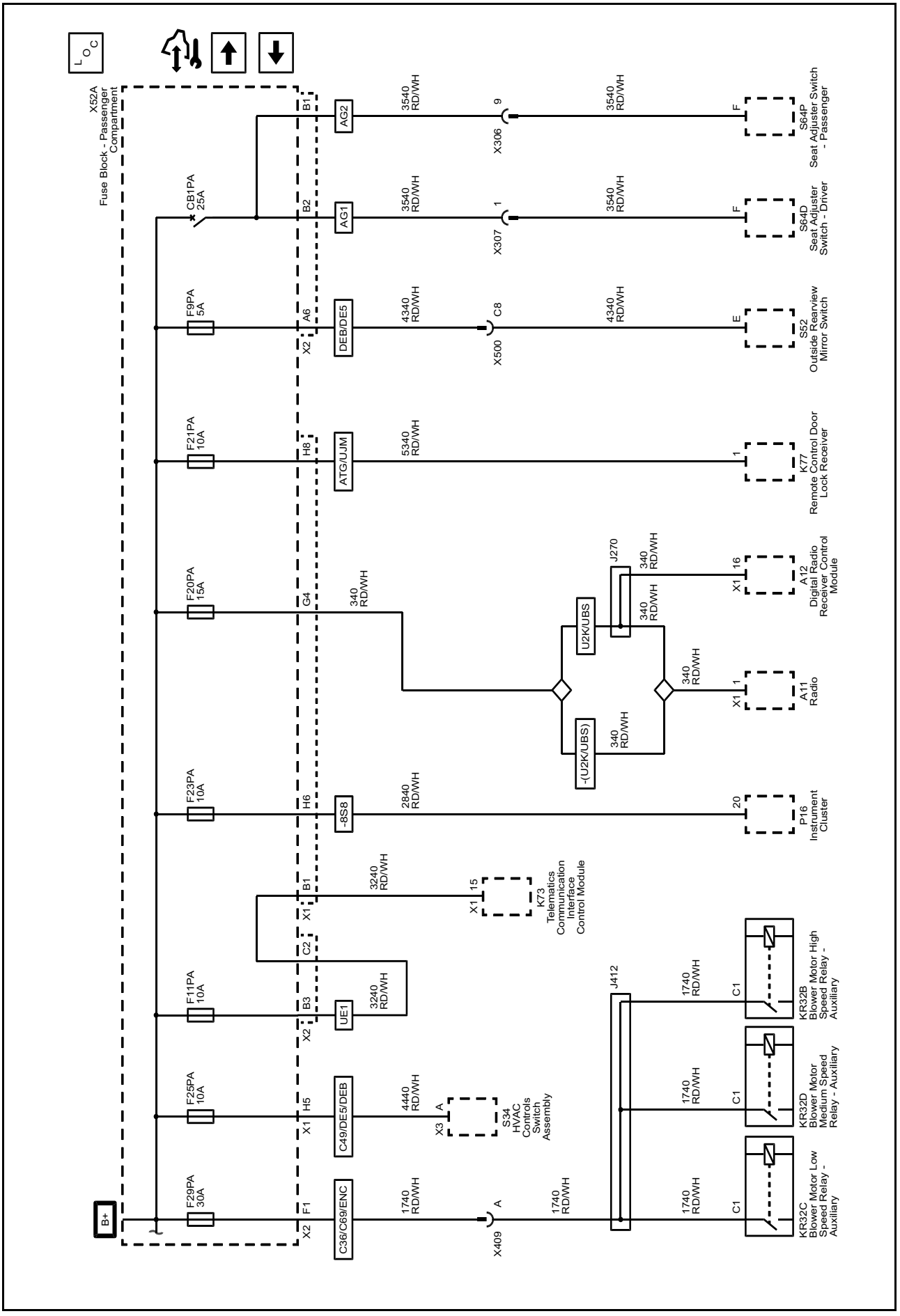
cardiagn.com

Power Distribution Schematics (Fuse F65UA)



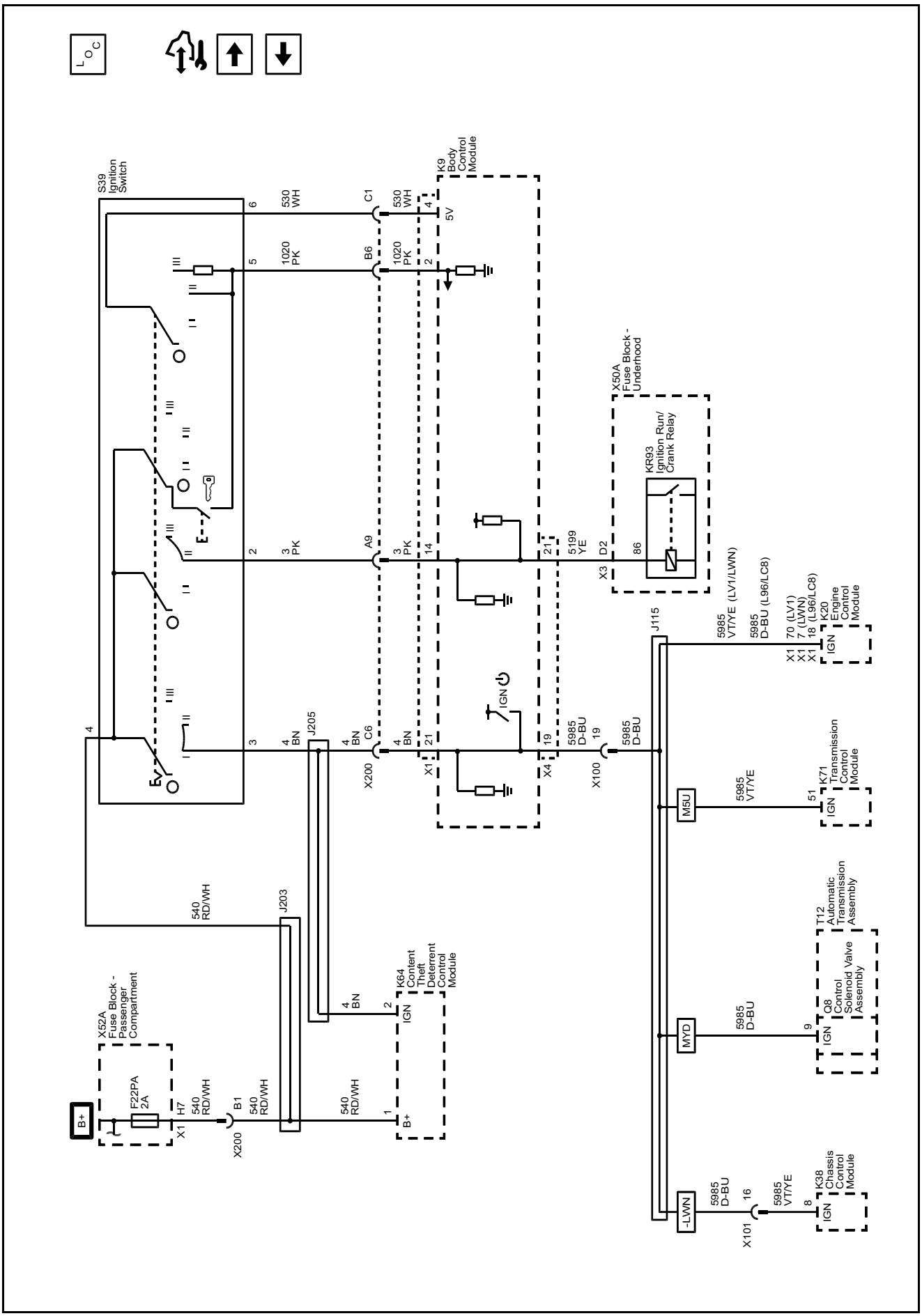
cardiagn.com

Power Distribution Schematics (Fuses F9PA, F11PA, F20PA, F21PA, F23PA, F25PA, F29PA, and Circuit Breaker CB1PA)



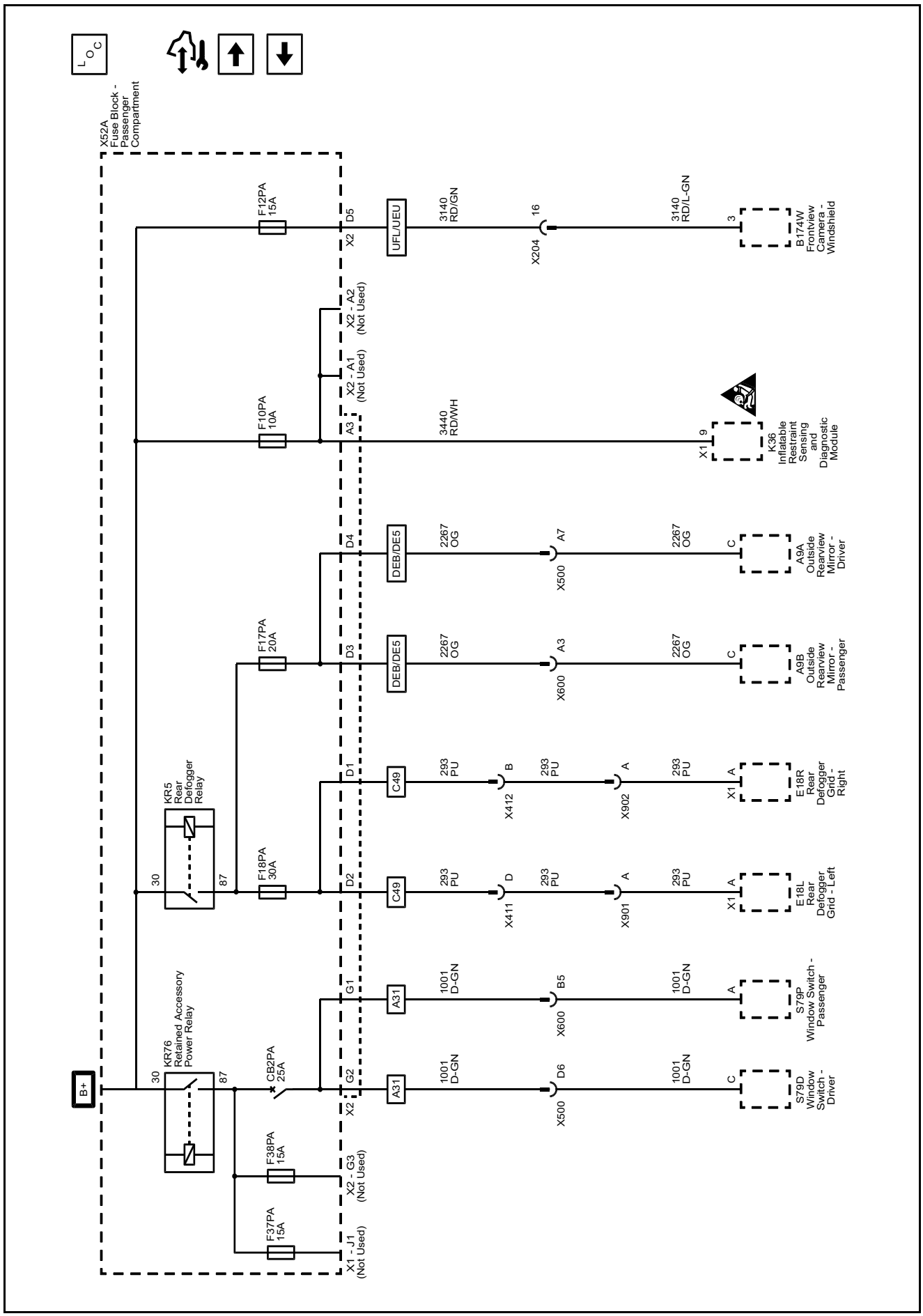
cardiagn.com

Power Distribution Schematics (Ignition Switch and Fuse F22PA)



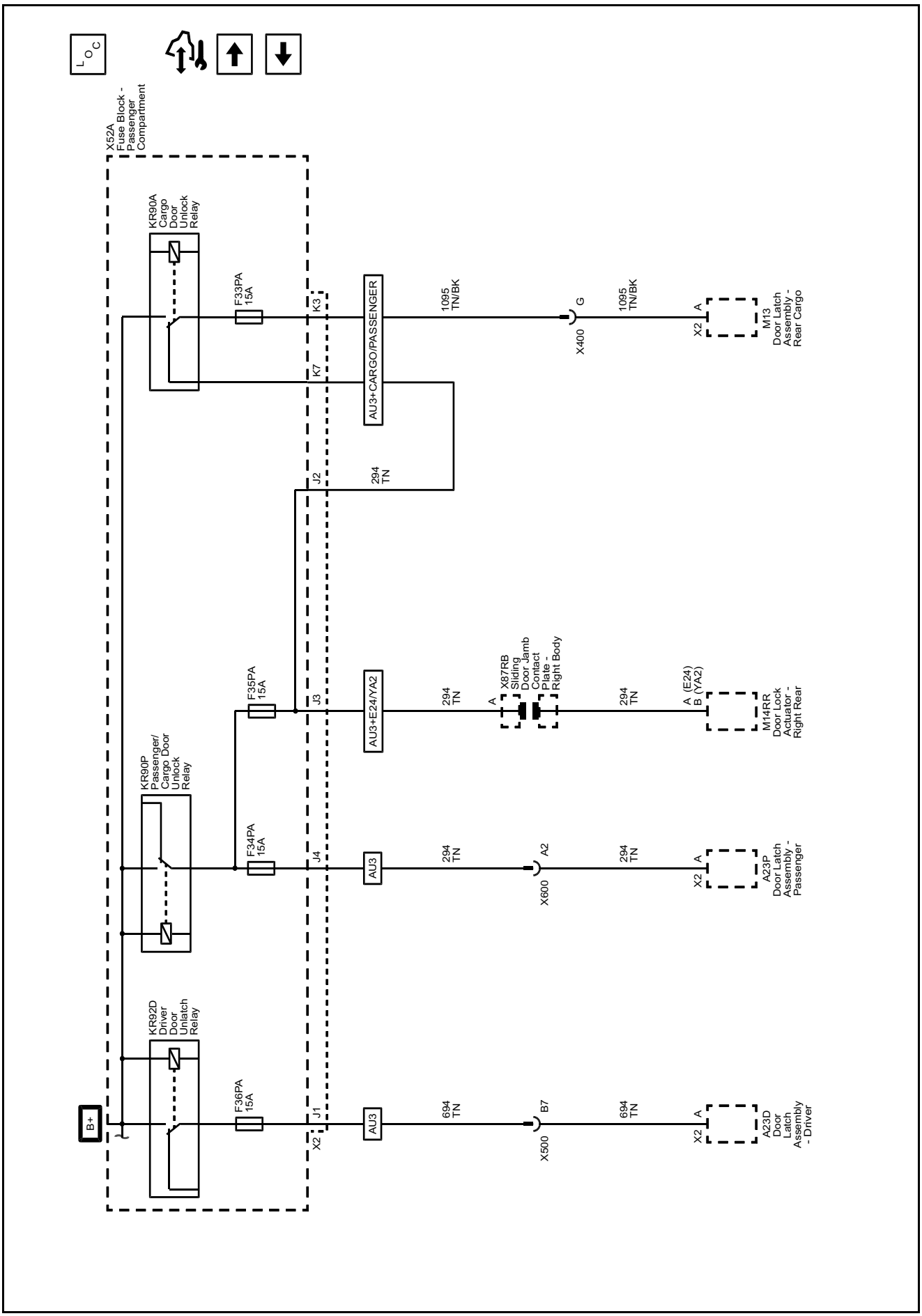
cardiagn.com

Power Distribution Schematics (Fuses F10PA, F17PA, F18PA, F37PA, F38PA, and Circuit Breaker CB2PA)



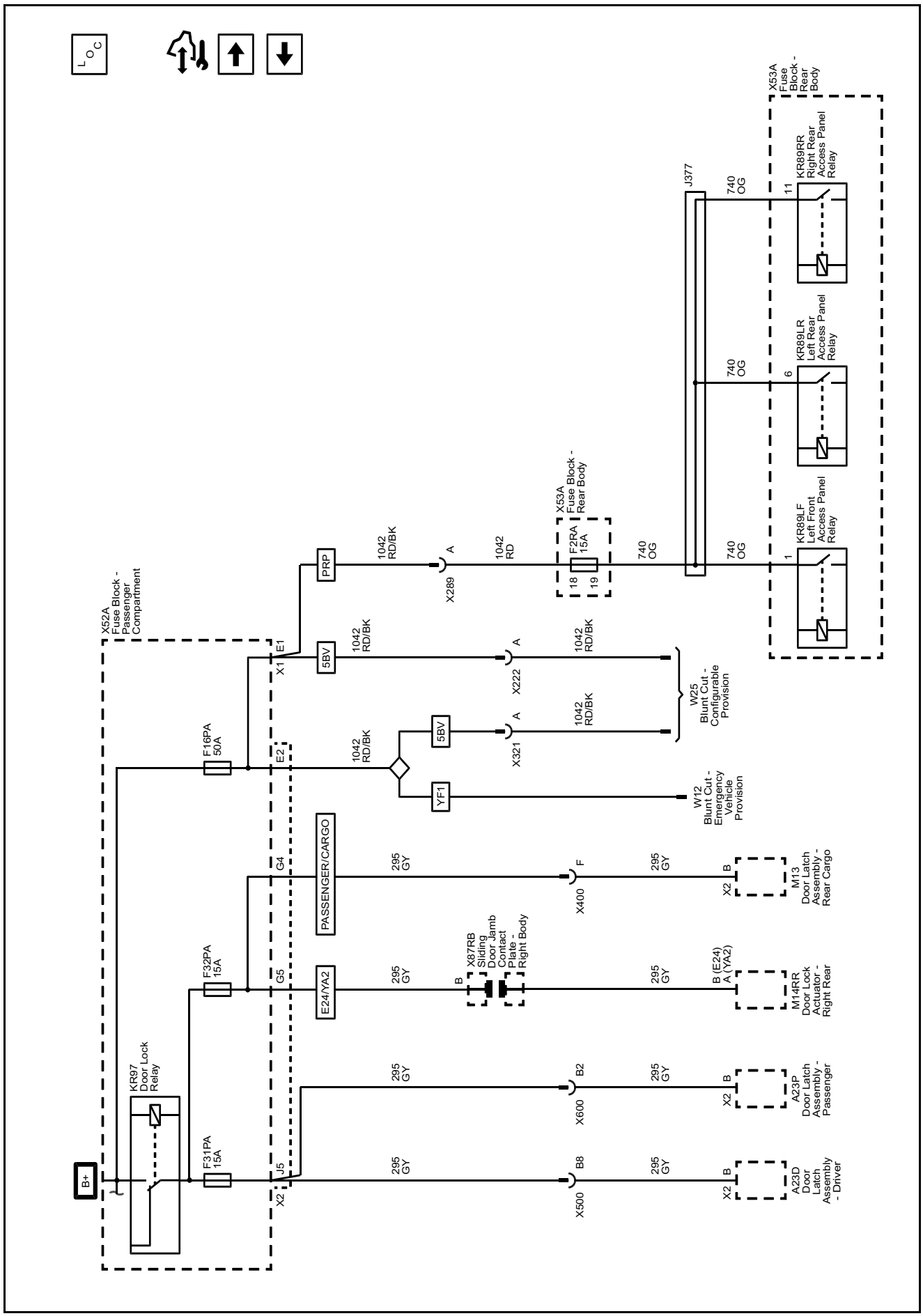
cardiagn.com

Power Distribution Schematics (Fuses F33PA, F34PA, F35PA, and F36PA)



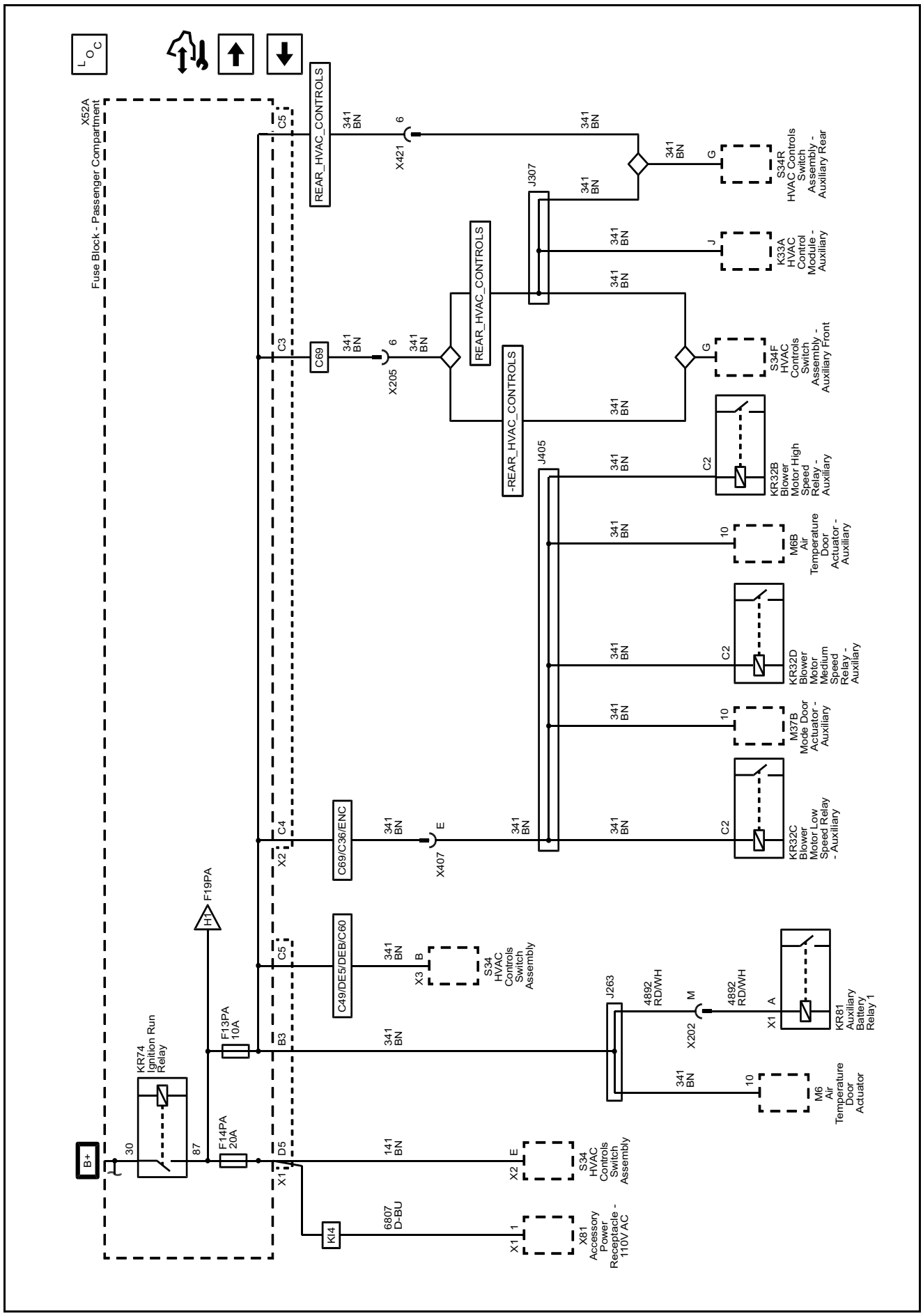
cardiagn.com

Power Distribution Schematics (Fuses F16PA, F31PA, F32PA, and F2RA)



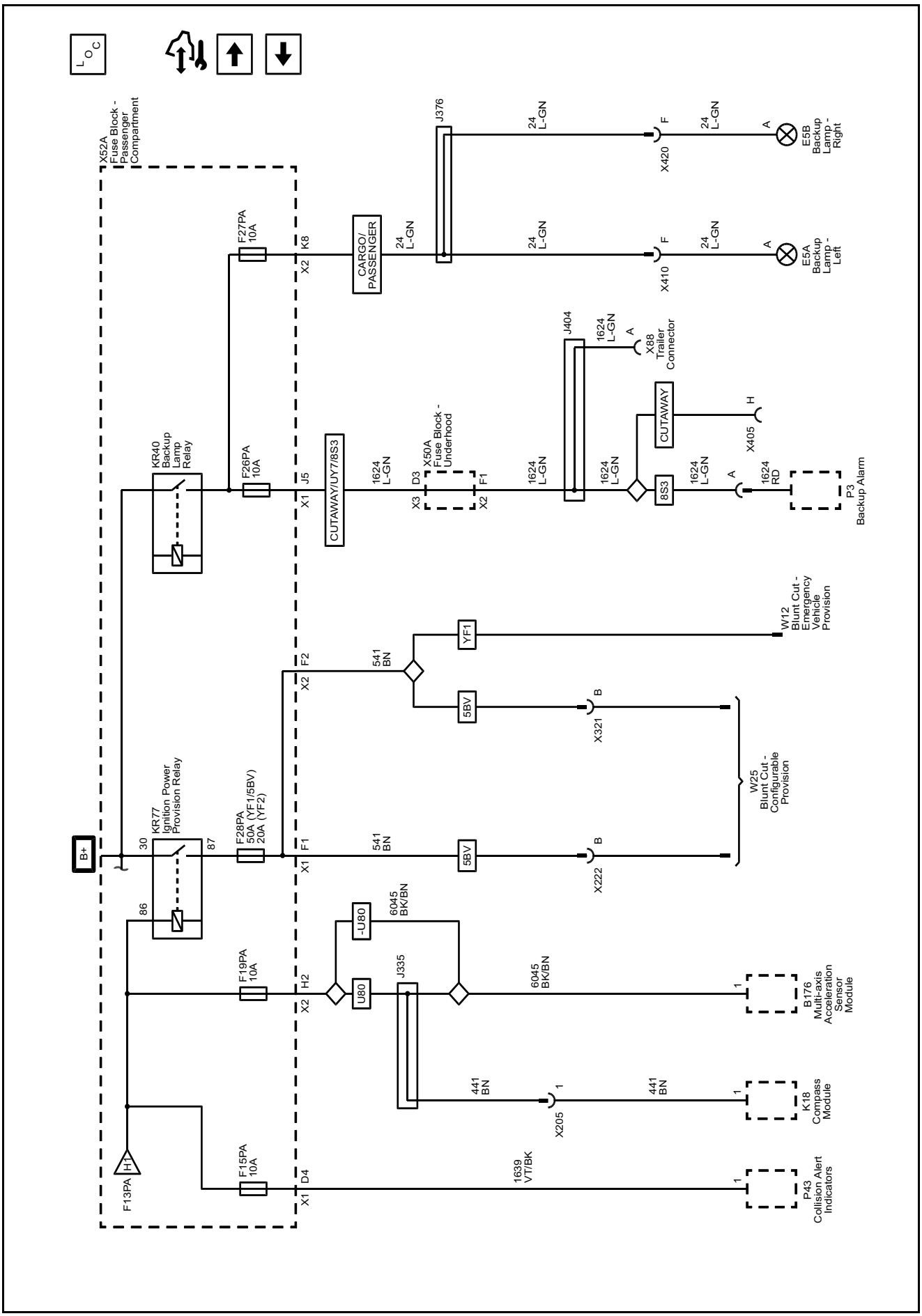
cardiagn.com

Power Distribution Schematics (Fuses F13PA and F14PA)



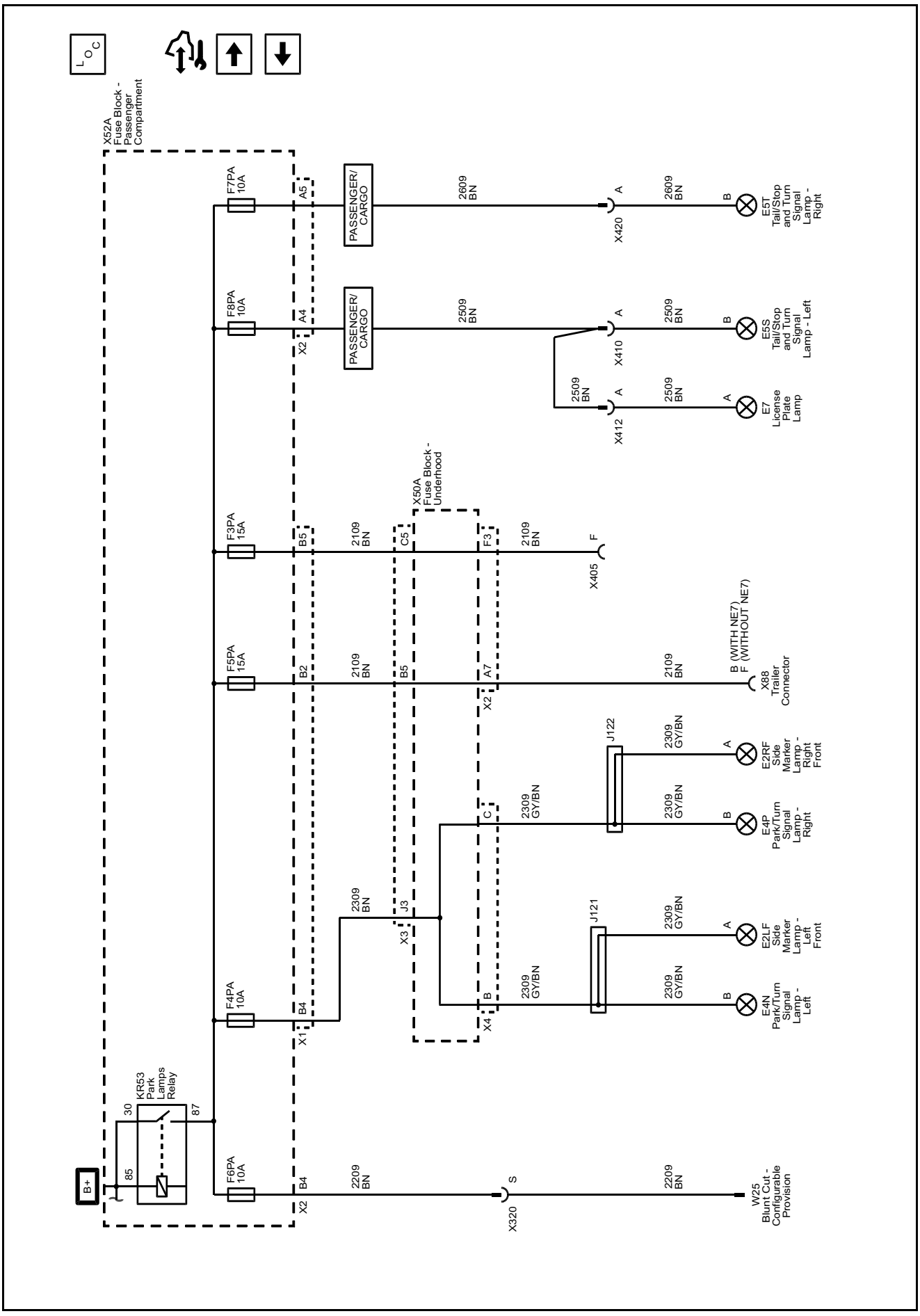
cardiagn.com

Power Distribution Schematics (Fuses F19PA, F26PA, F27PA, and F28PA)

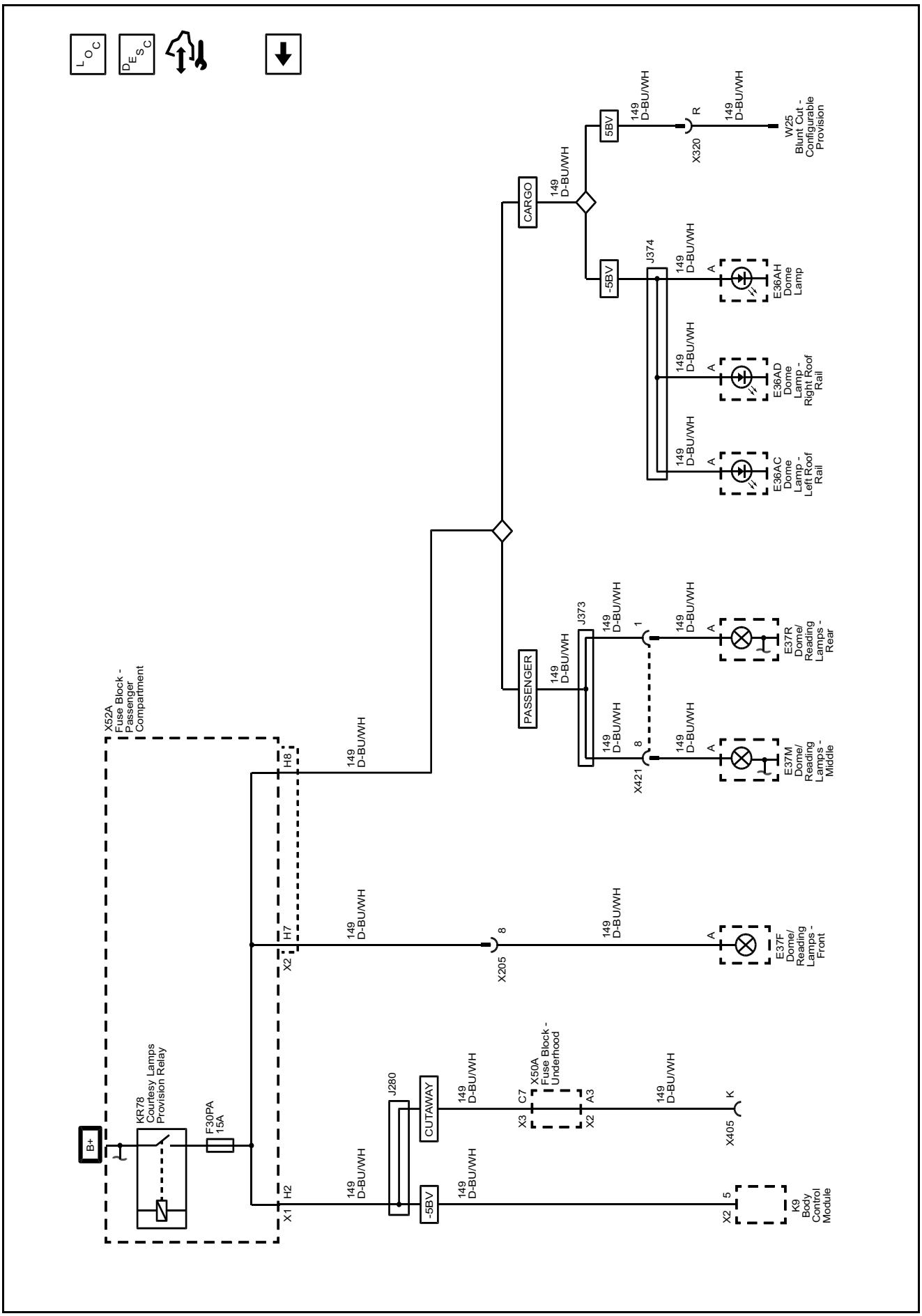


cardiagn.com

Power Distribution Schematics (Fuses F3PA, F4PA, F5PA, F6PA, F7PA, and F8PA)

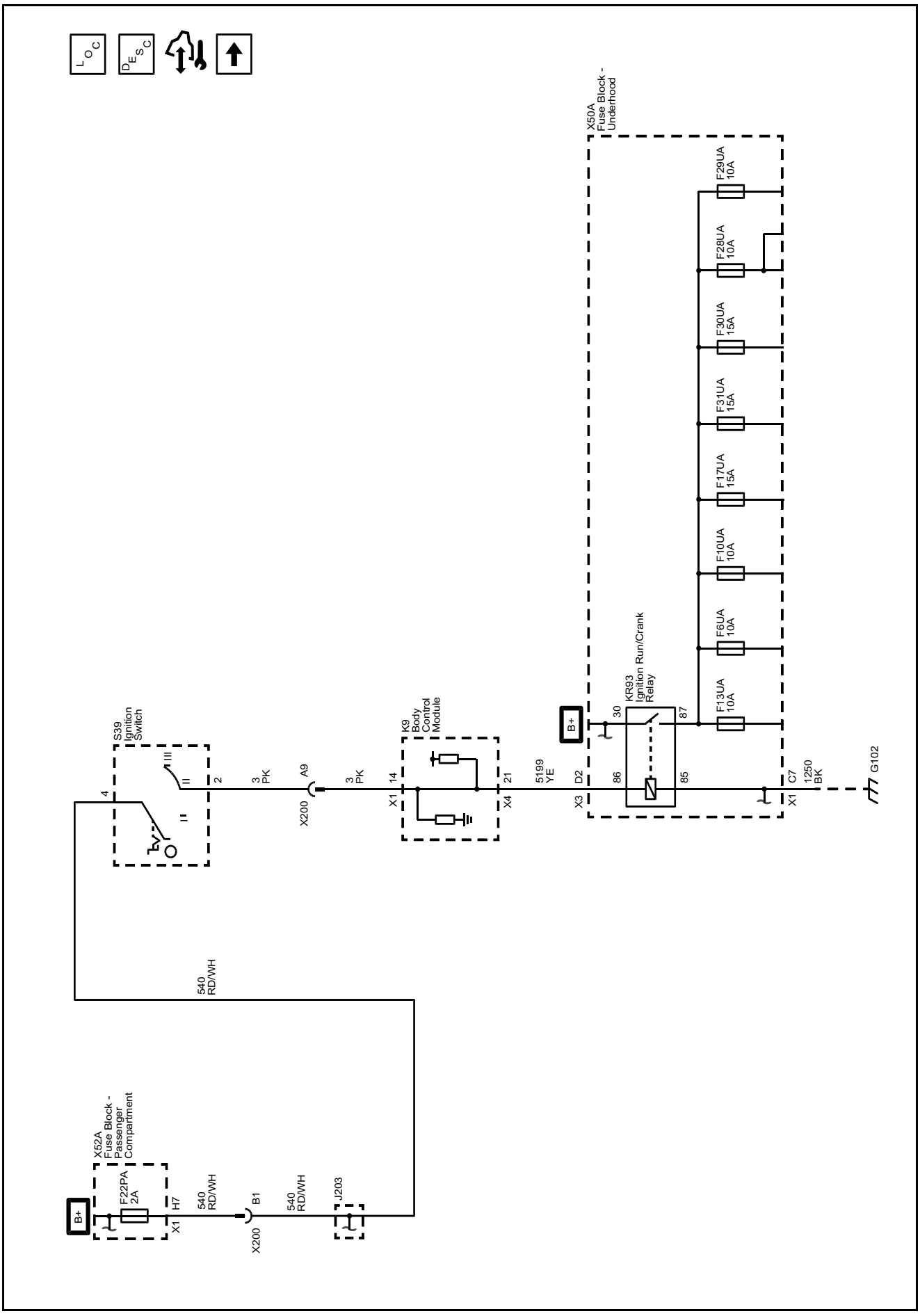


Power Distribution Schematics (Fuse F30PA)



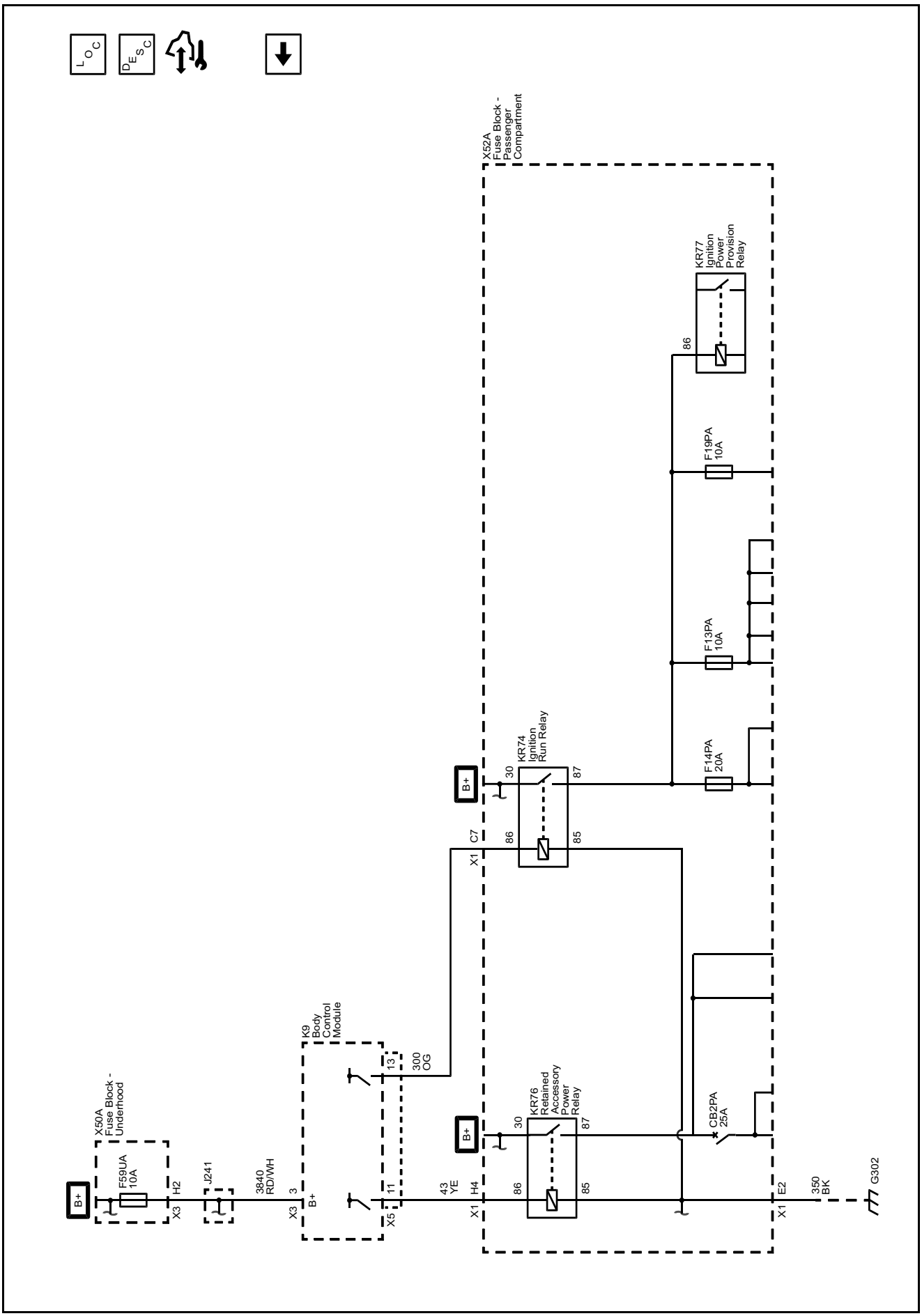
cardiagn.com

Power Moding Schematics (Ignition Run/Crank Relay)



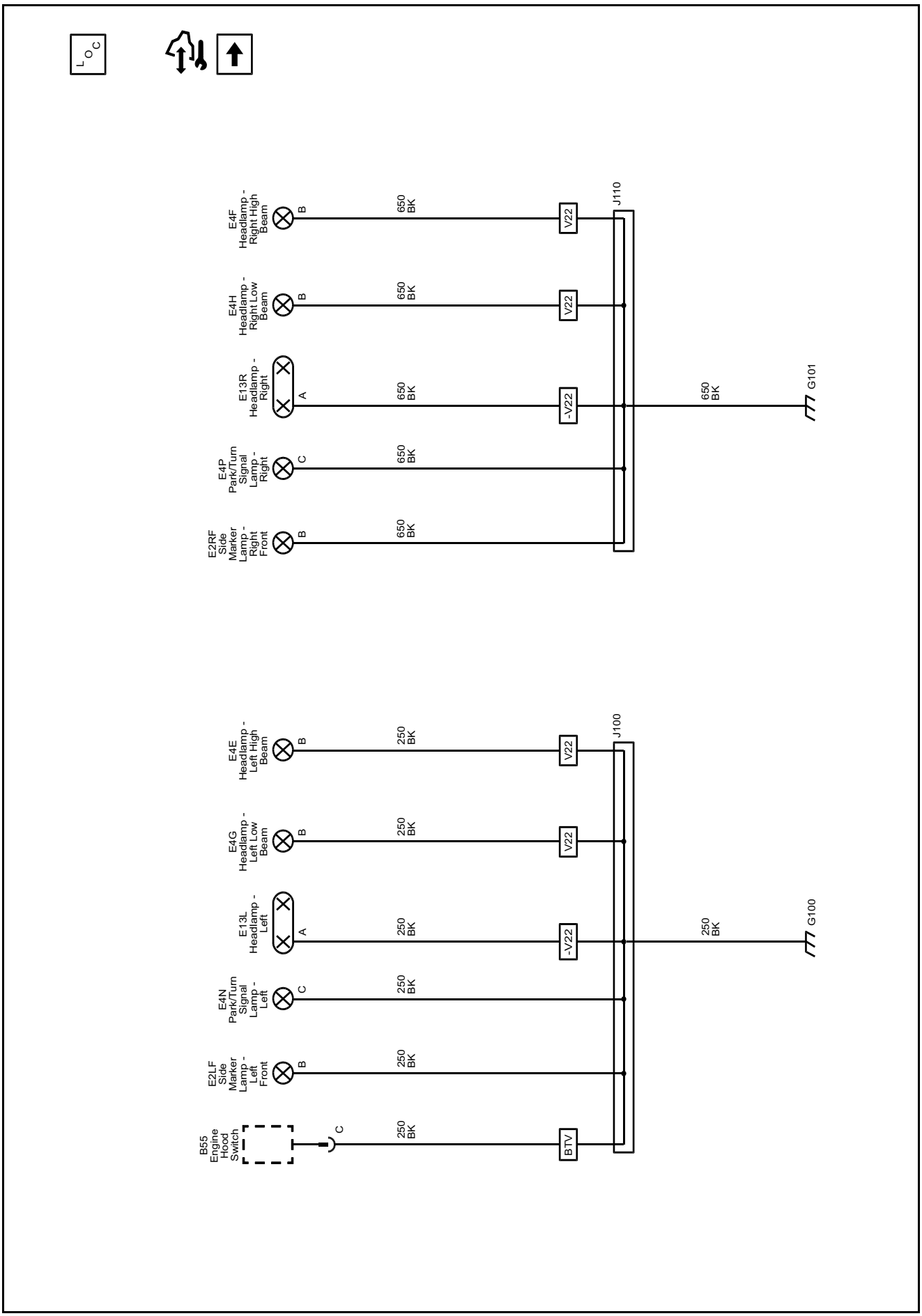
cardiagn.com

Power Moding Schematics (Retained Accessory Power Relay and Ignition Run Relay)



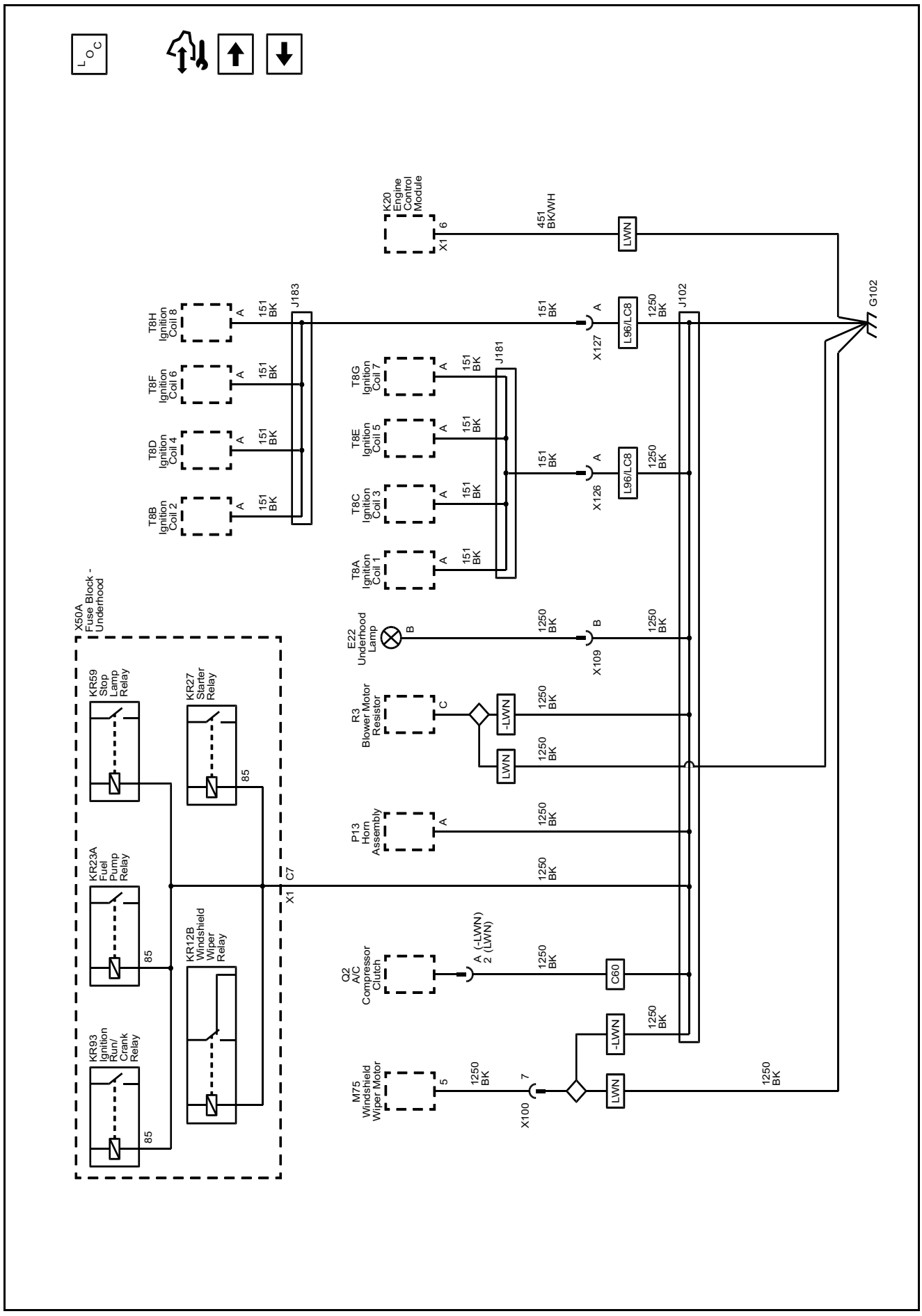
cardiagn.com

Ground Distribution Schematics (G100 and G101)



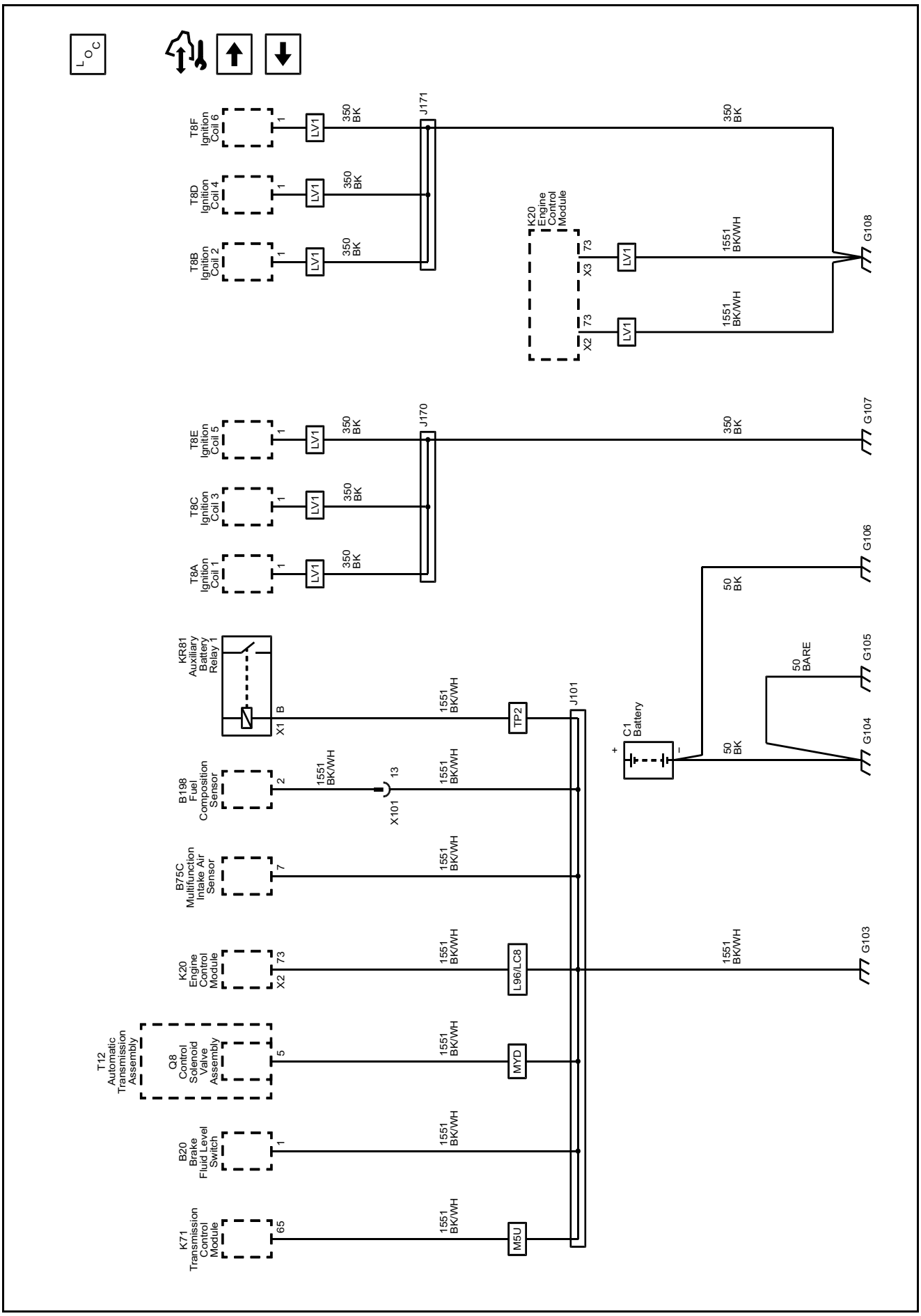
cardiagn.com

Ground Distribution Schematics (G102)



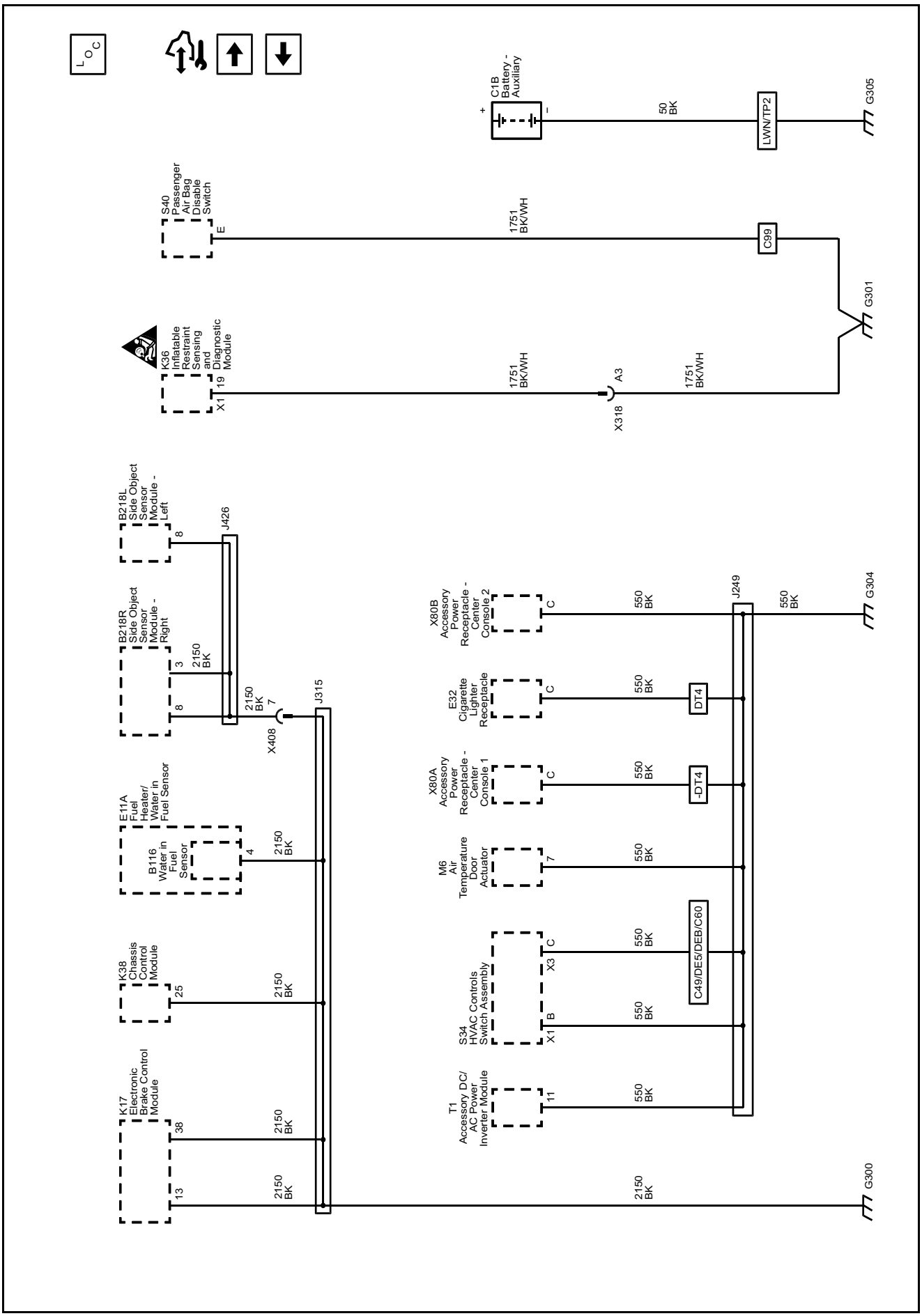
cardiagn.com

Ground Distribution Schematics (G103, G104, G105, G106, G107 and G108)



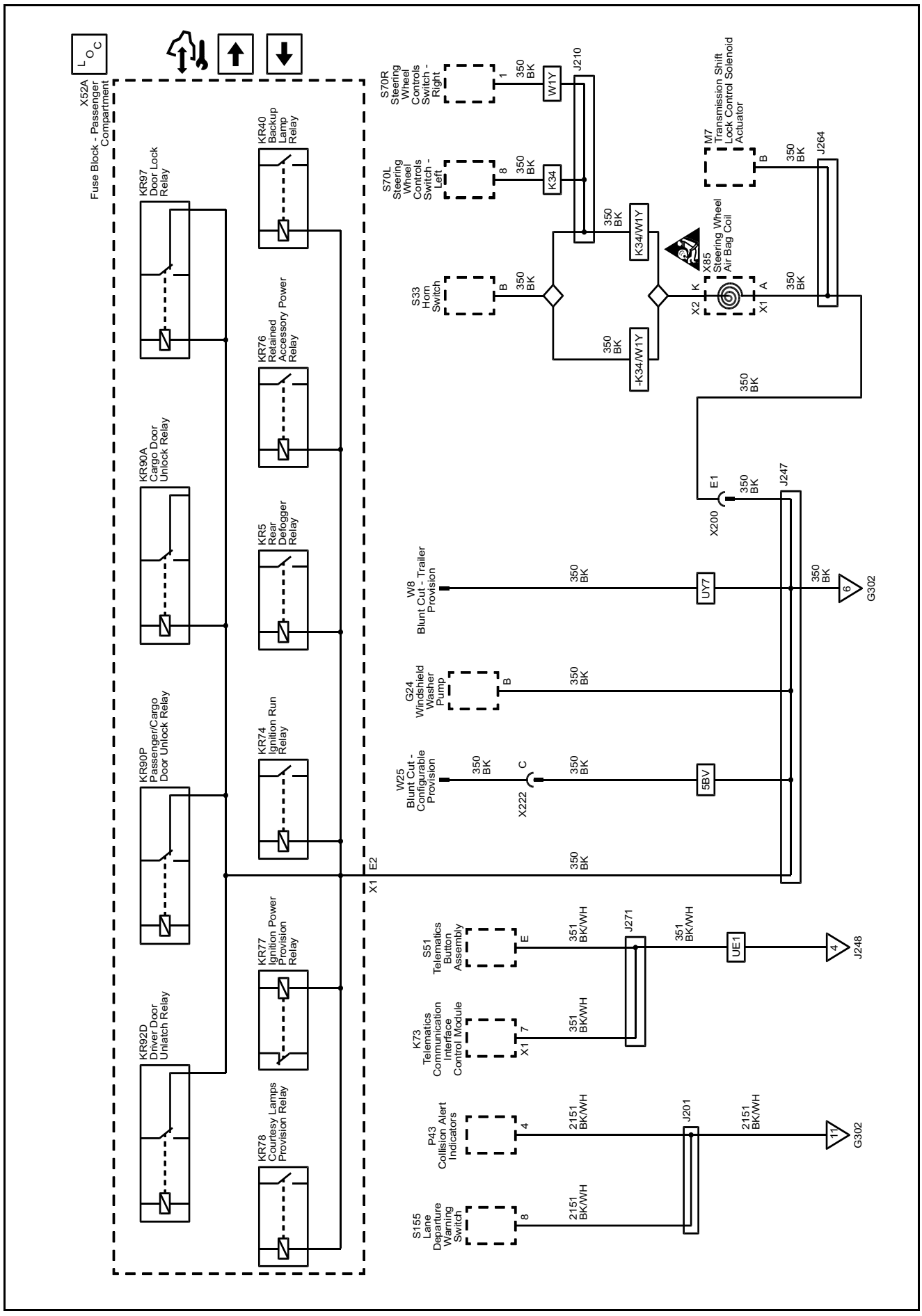
cardiagn.com

Ground Distribution Schematics (G300, G301, G304, and G305)



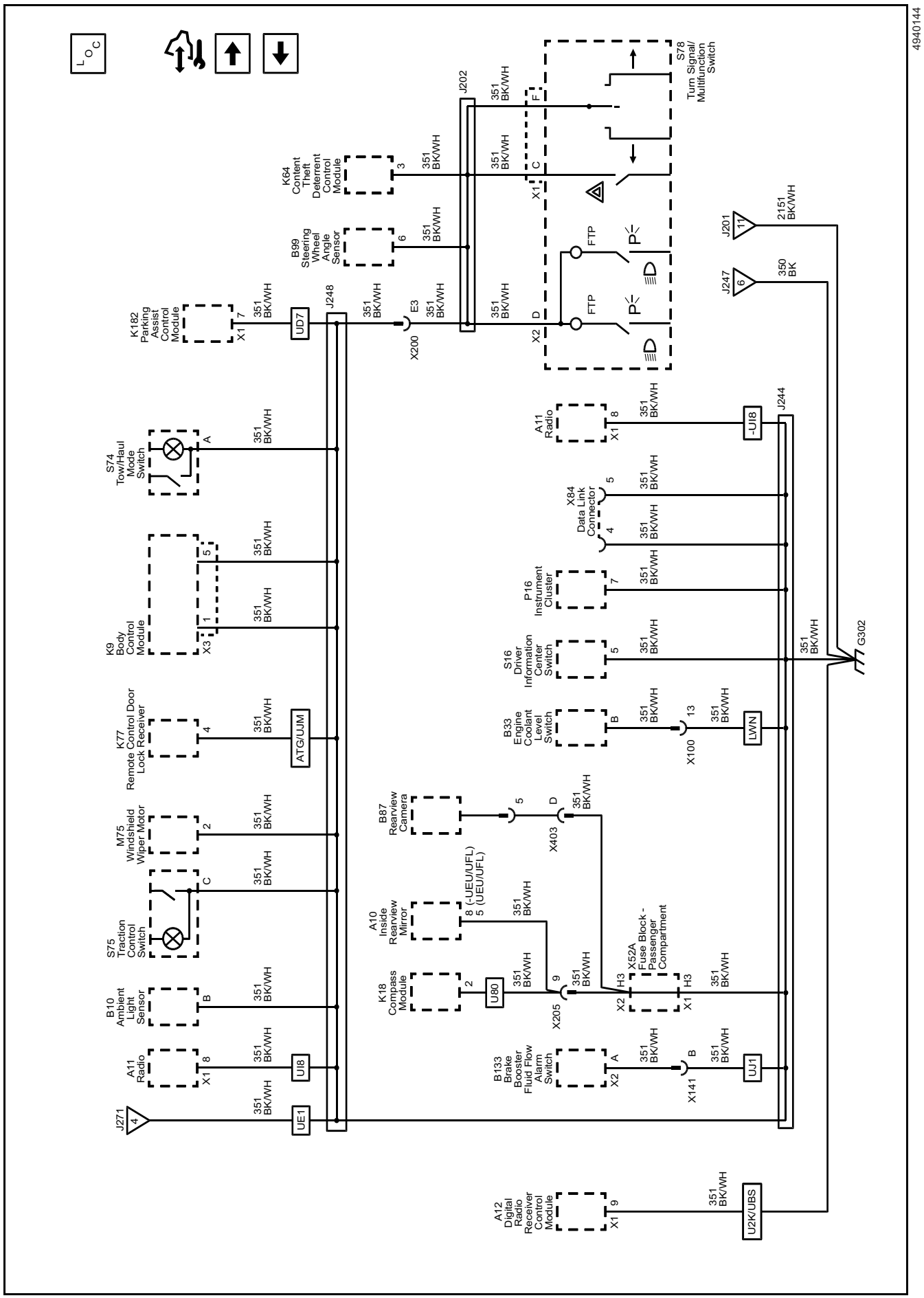
cardiagn.com

Ground Distribution Schematics (G302 (1 of 2))

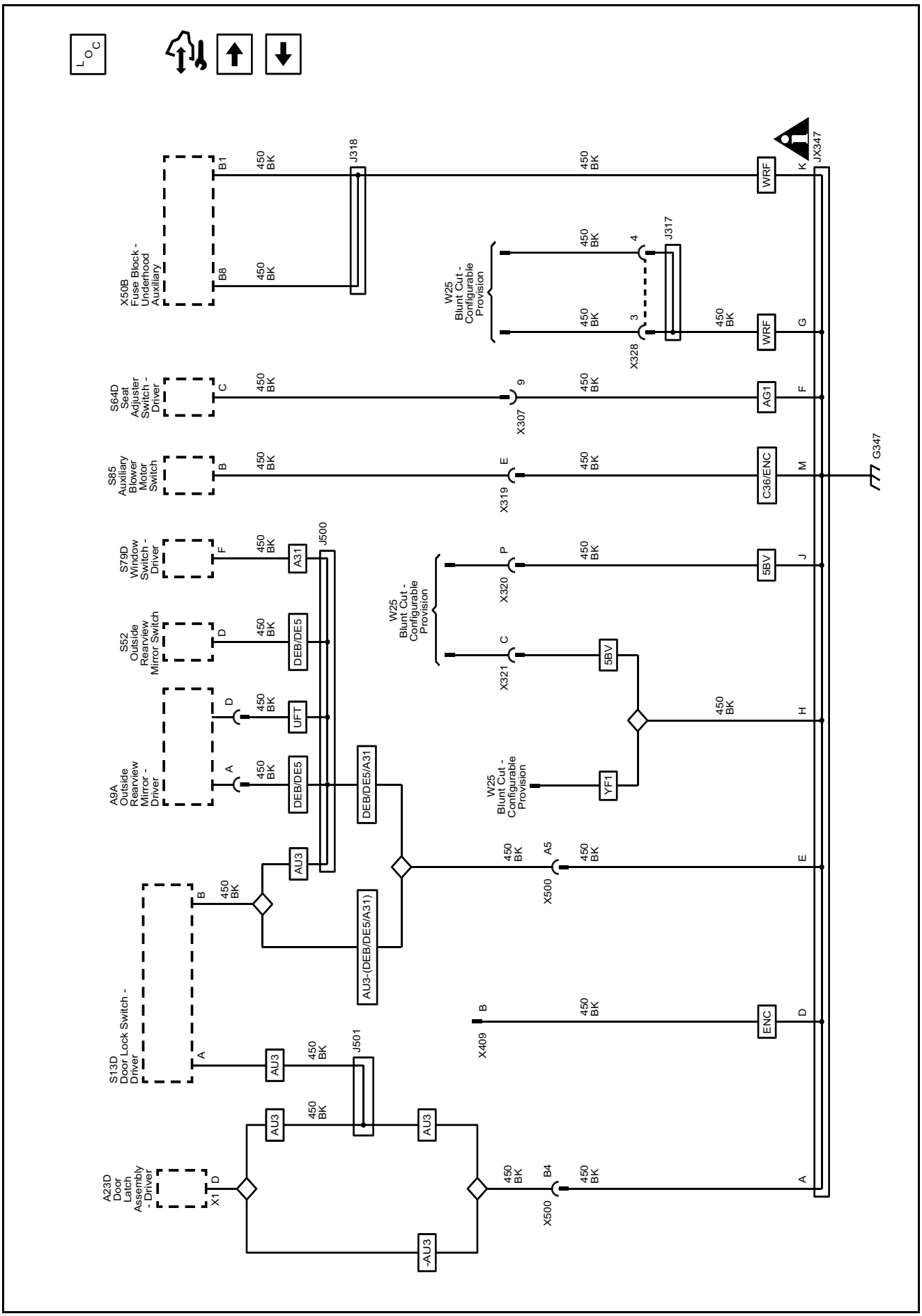


cardiagn.com

Ground Distribution Schematics (G302 (2 of 2))

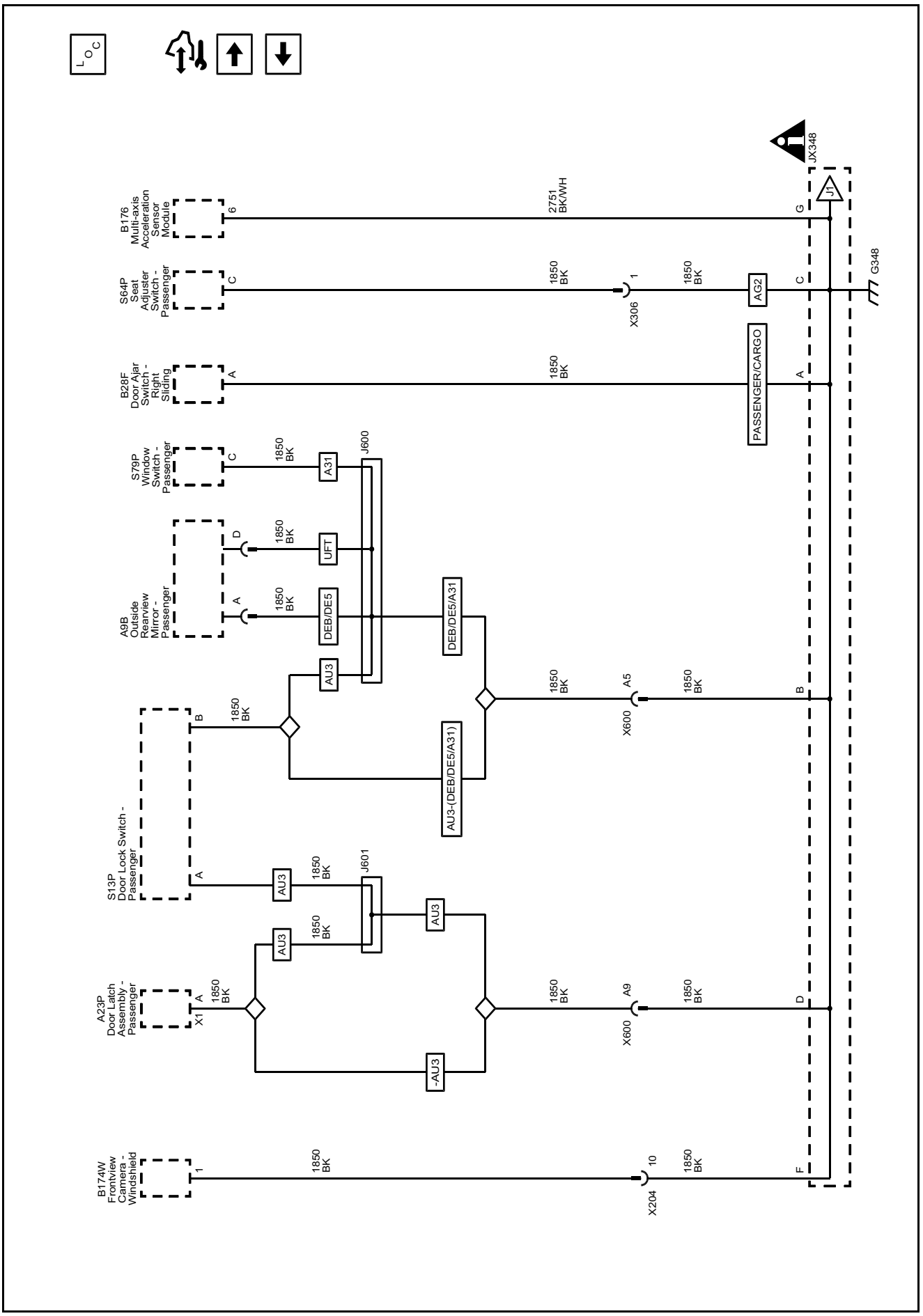


cardiagn.com



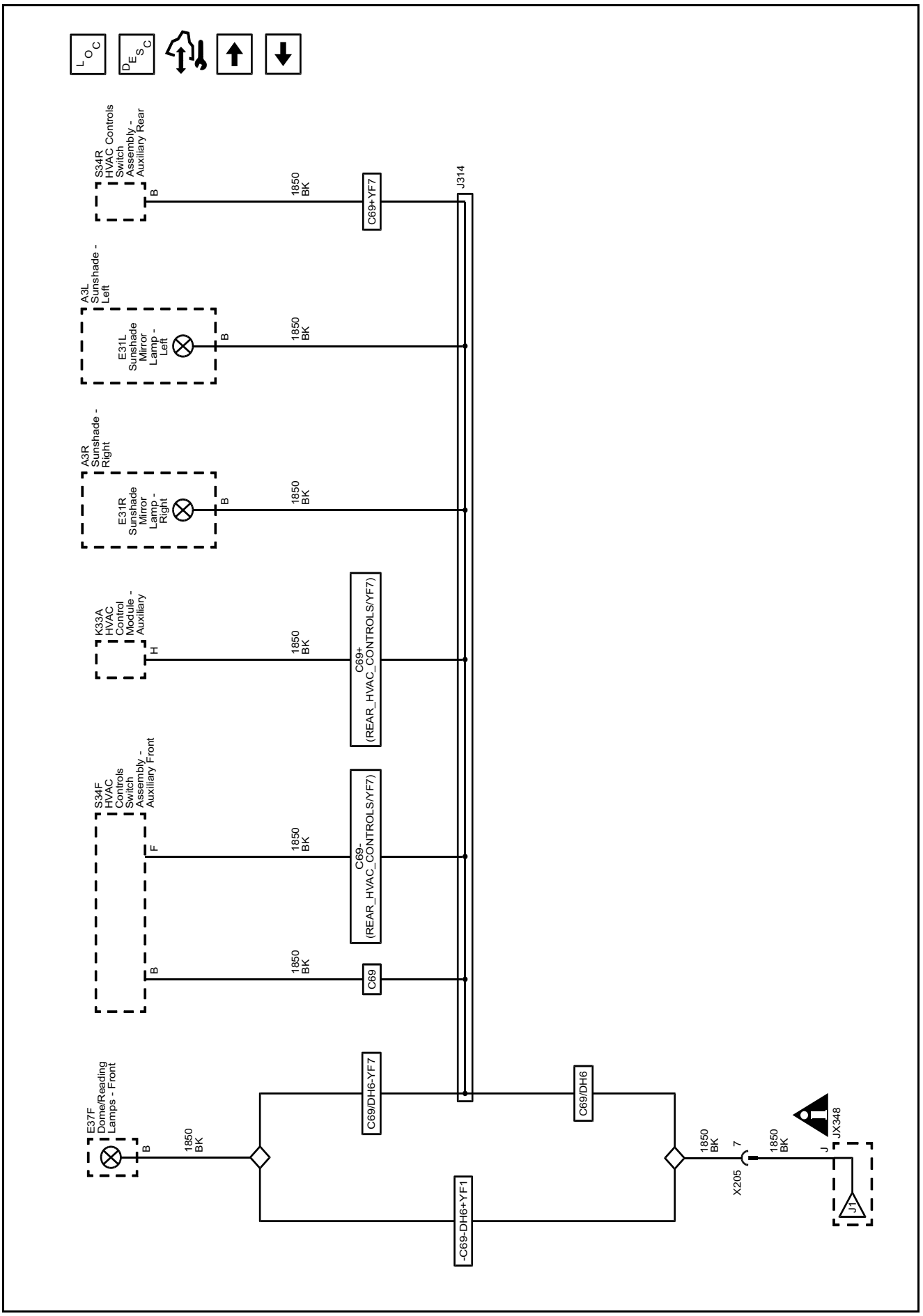
cardiagn.com

Ground Distribution Schematics (G348 (1 of 2))



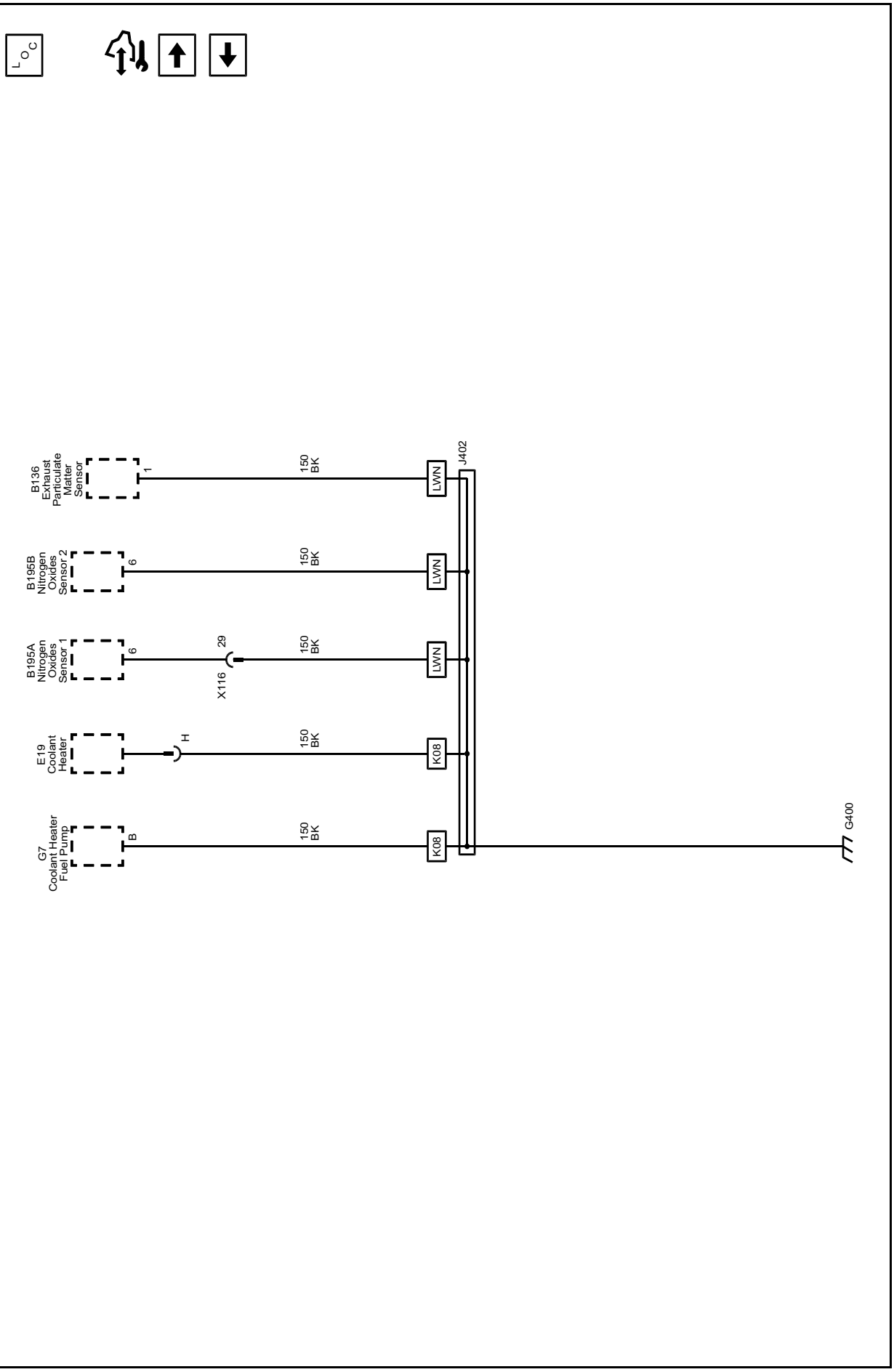
cardiagn.com

Ground Distribution Schematics (G348 (2 of 2))



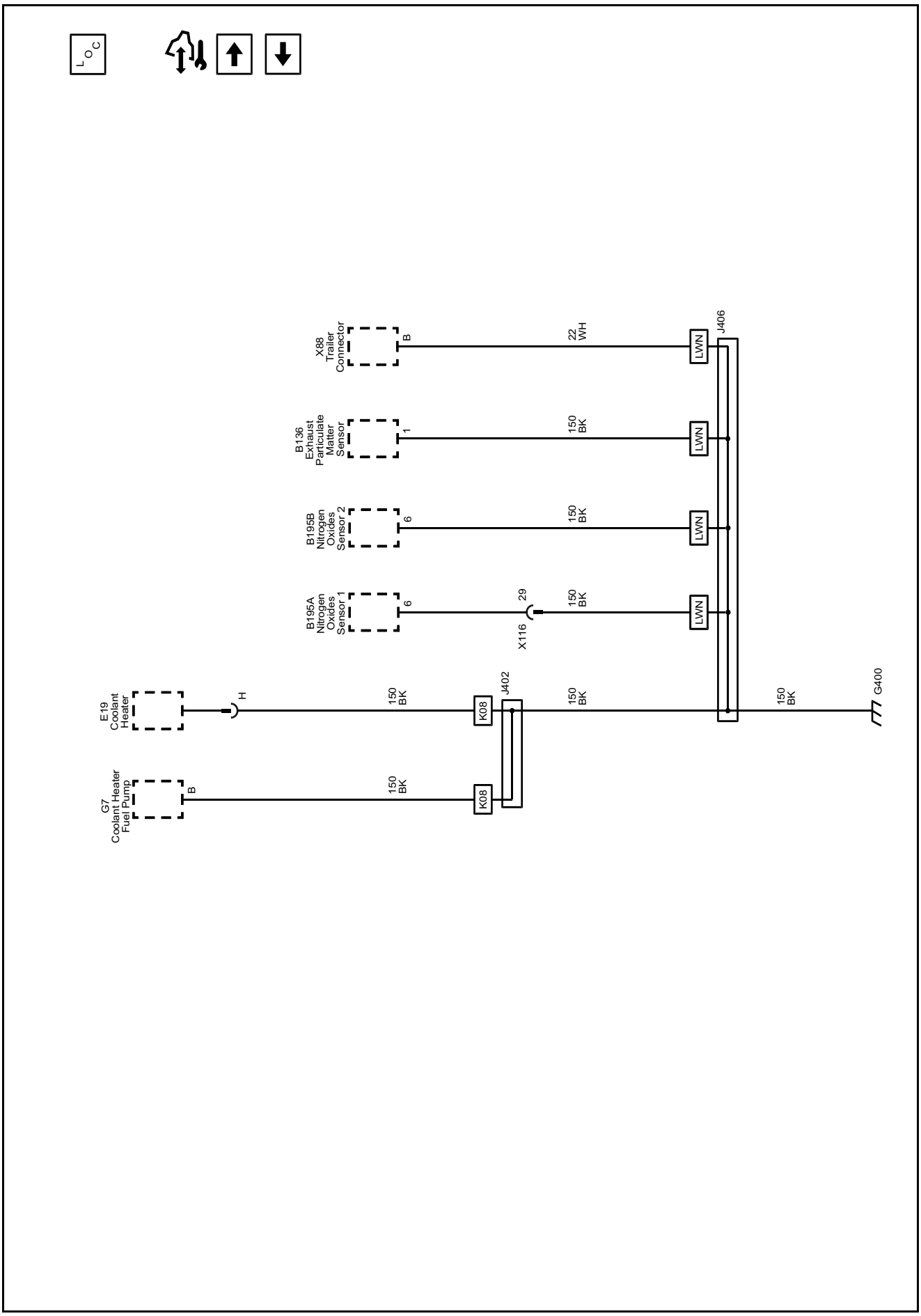
cardiagn.com

Ground Distribution Schematics (G400 (Without UY7))



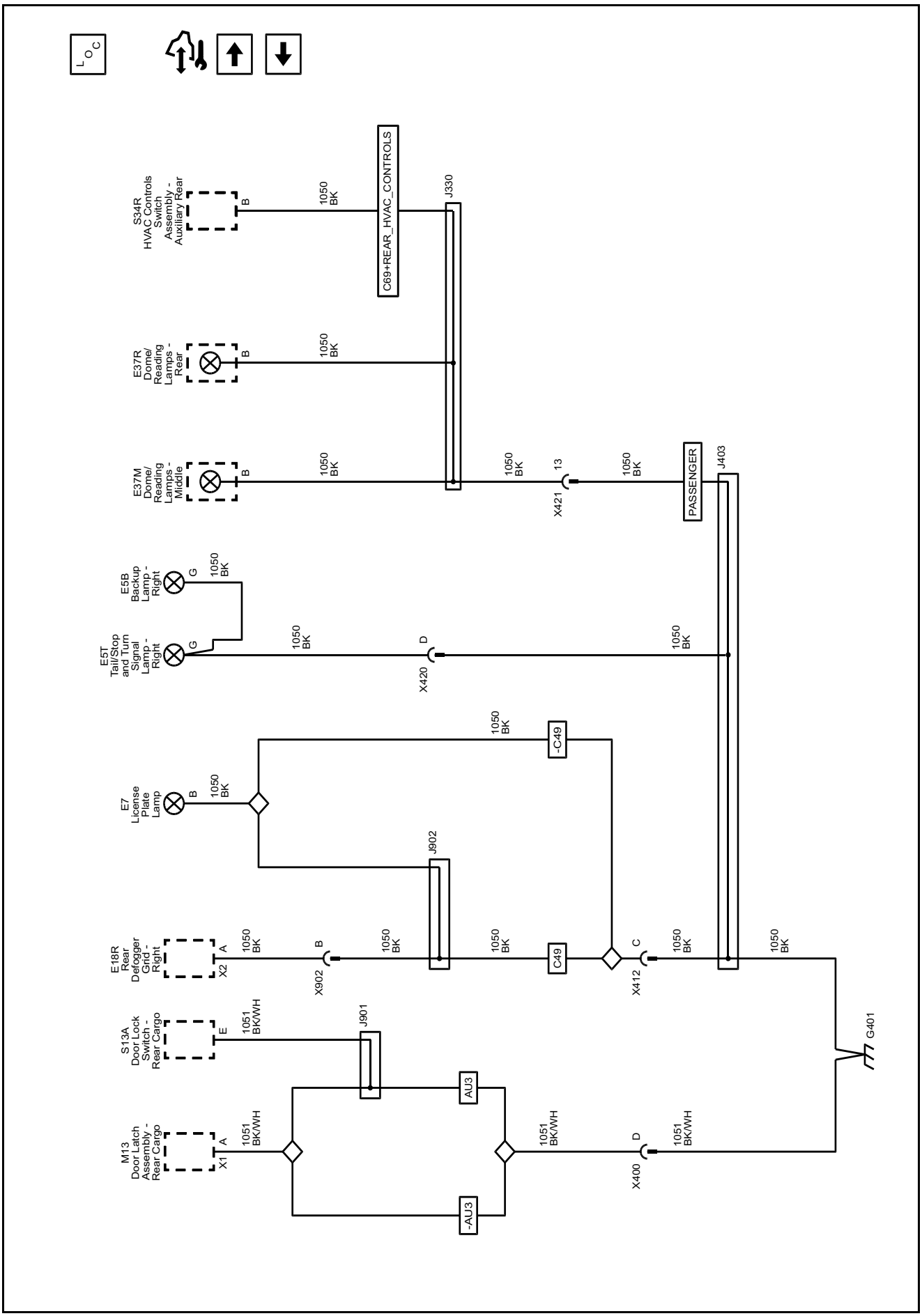
cardiagn.com

Ground Distribution Schematics (G400 (With UY7))



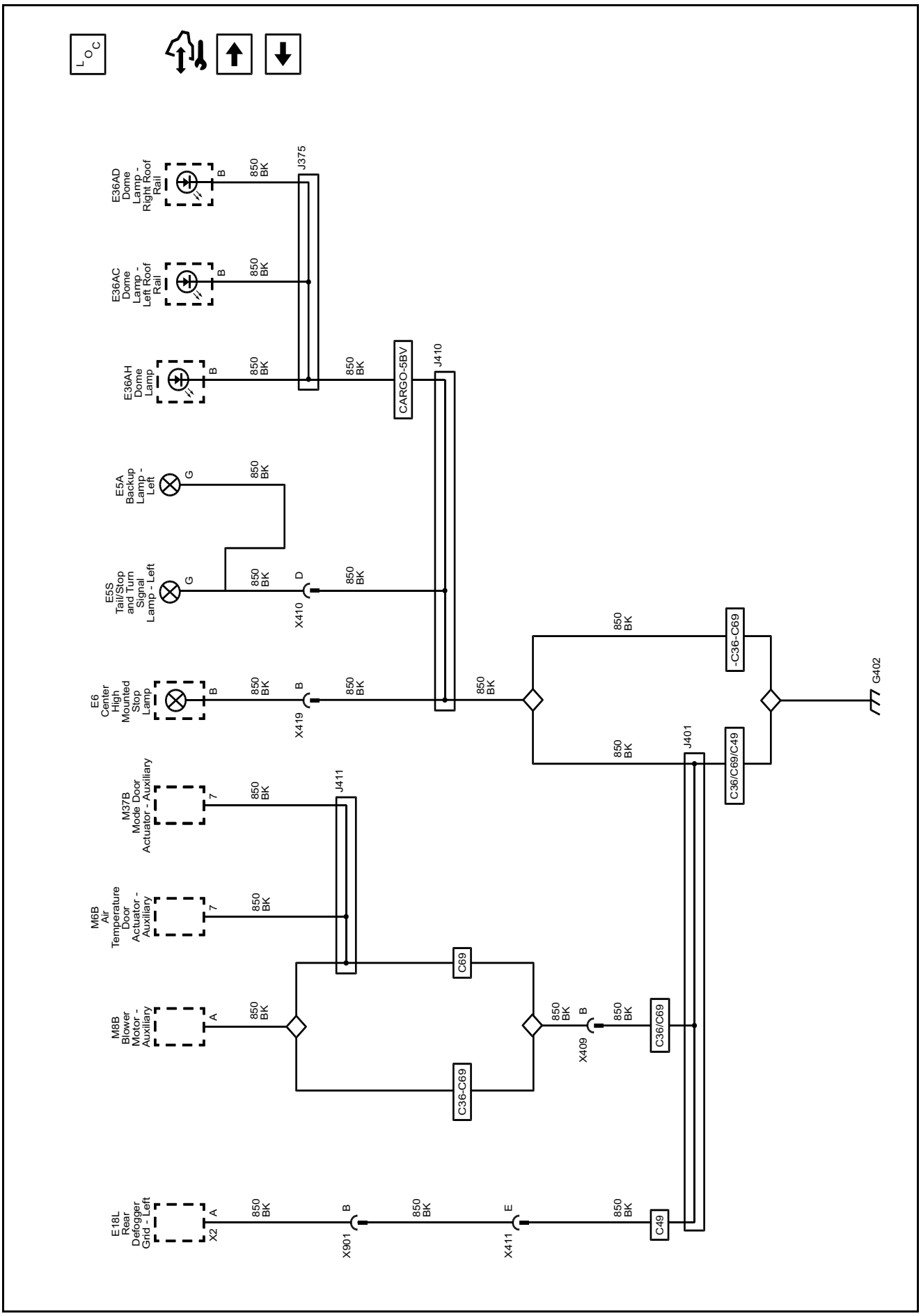
cardiagn.com

Ground Distribution Schematics (G401 (Passenger or Cargo))



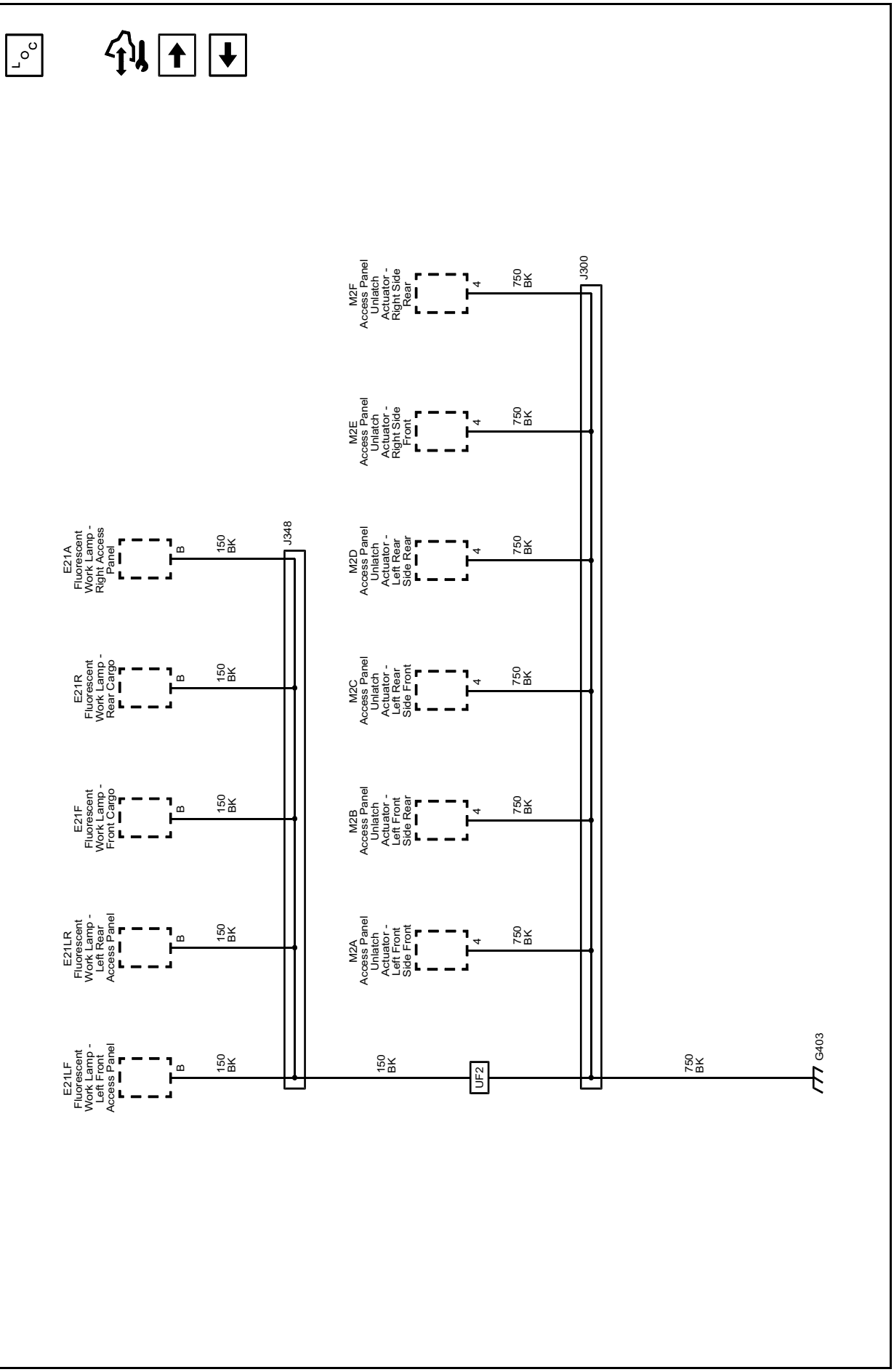
cardiagn.com

Ground Distribution Schematics (G402 (Passenger or Cargo))



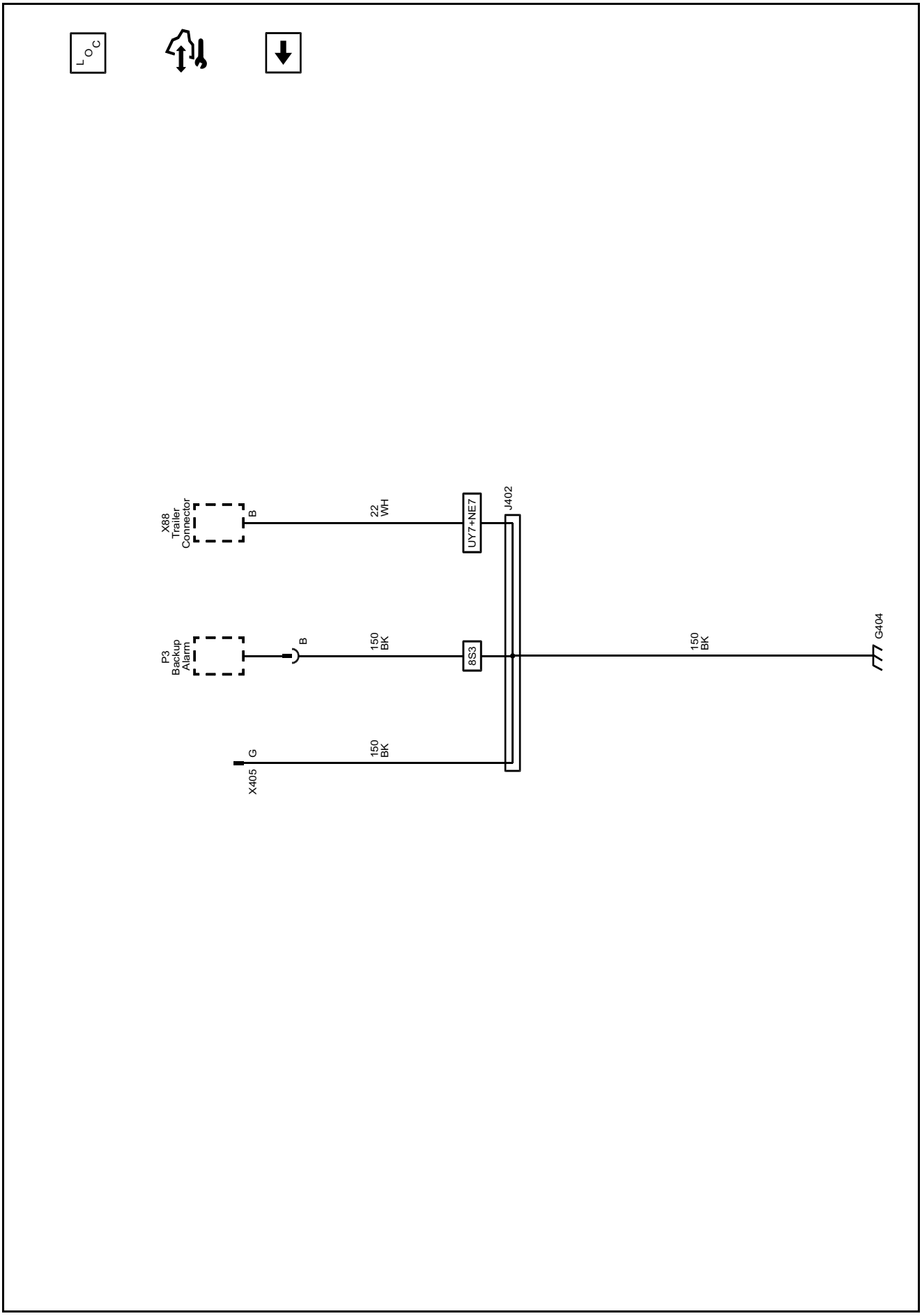
cardiagn.com

Ground Distribution Schematics (G403 (PRP))



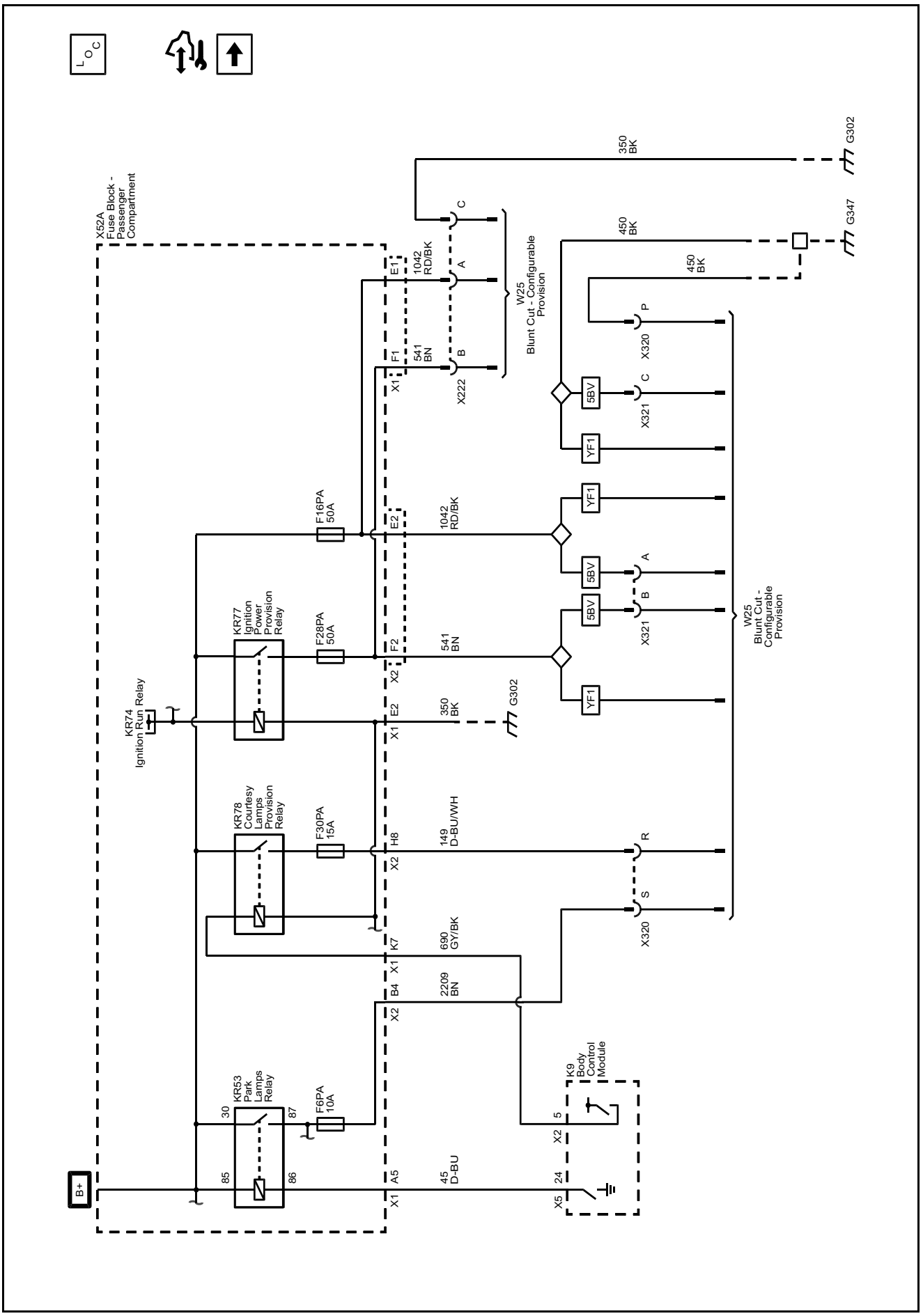
cardiagn.com

Ground Distribution Schematics (G404)



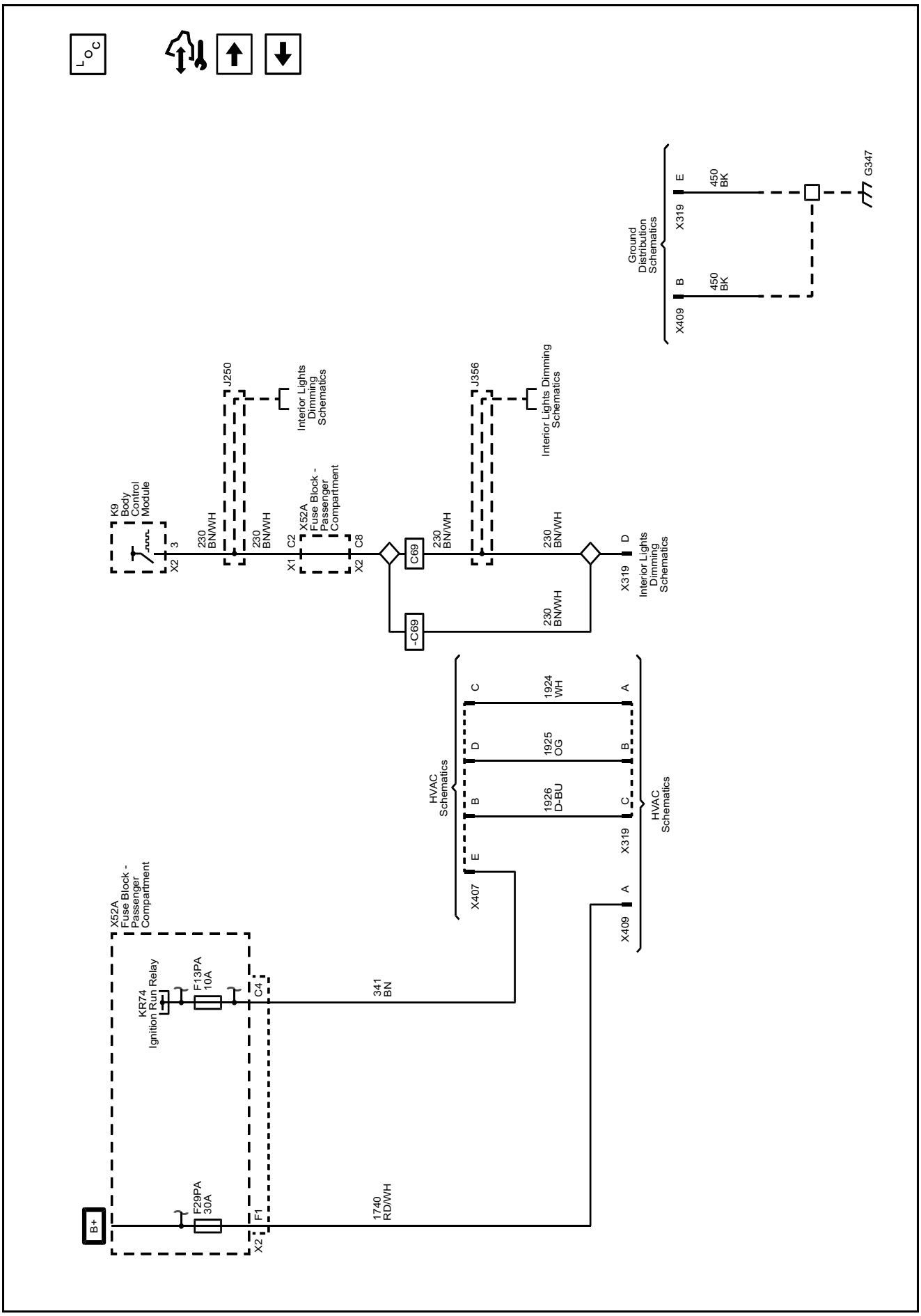
cardiagn.com

Upfitter Provision Schematics (Power, Ground, and Relay Controls)



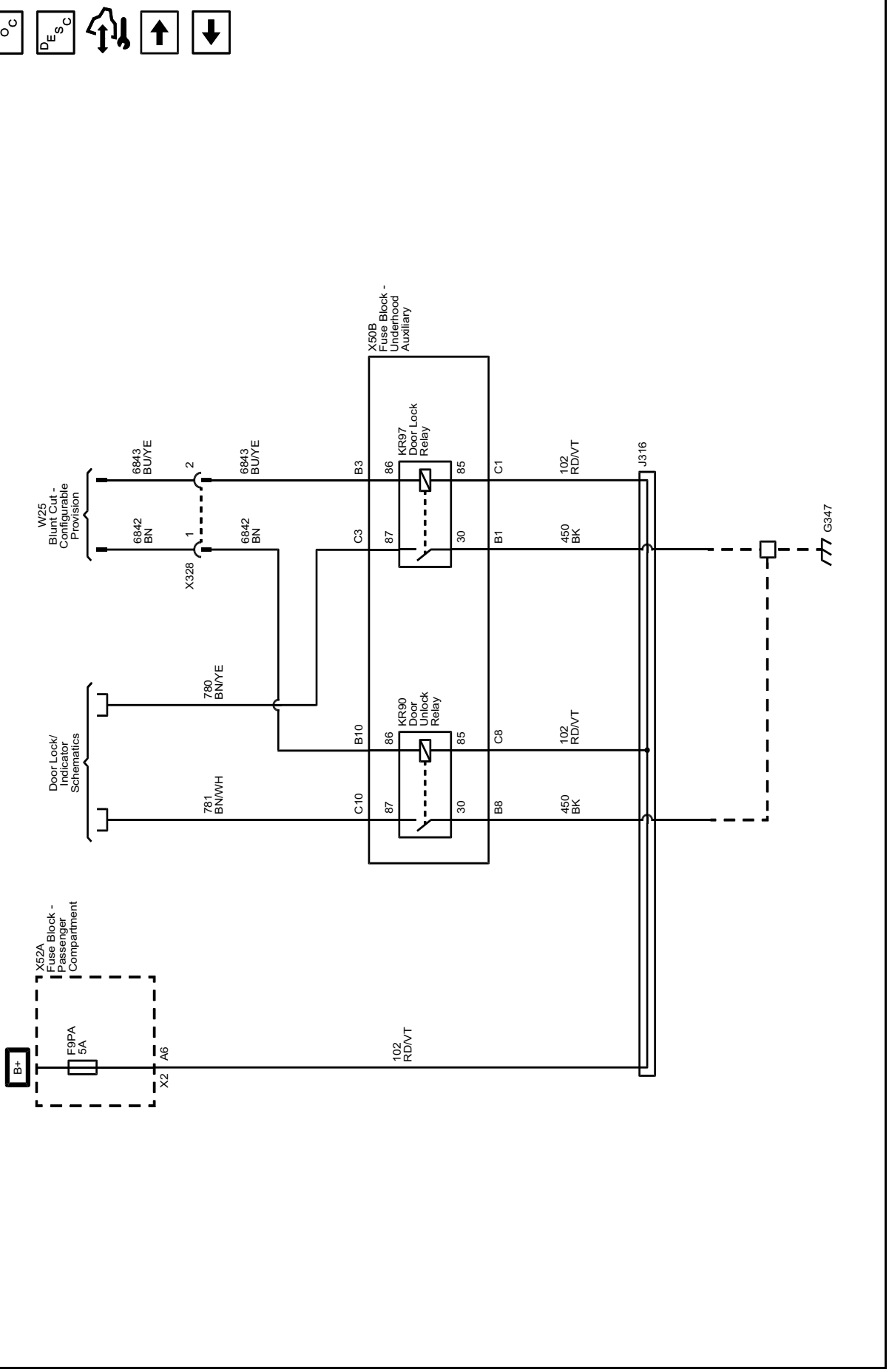
cardiagn.com

Upfitter Provision Schematics (Rear Heat Auxiliary (ENC))



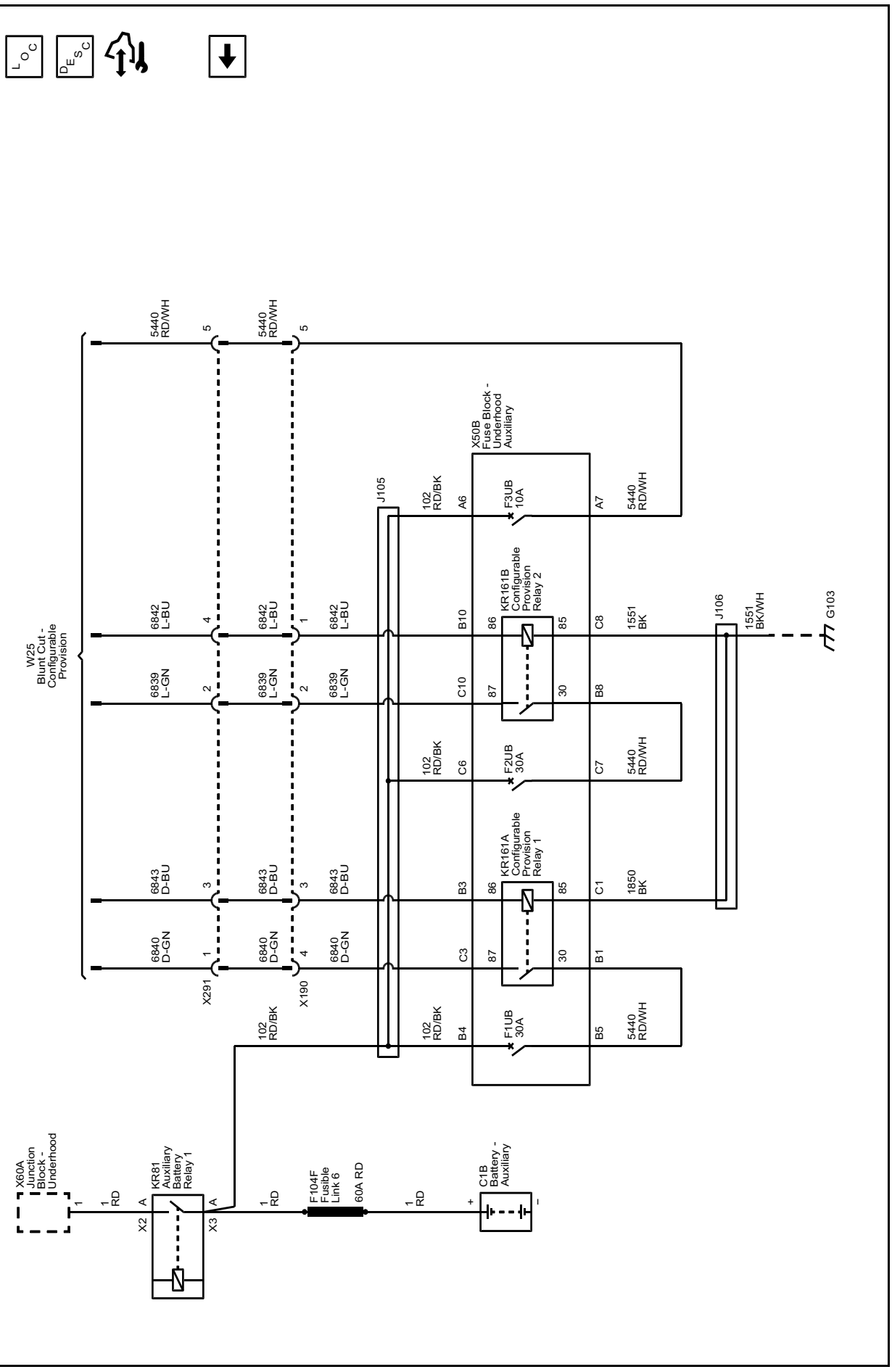
cardiagn.com

Upfitter Provision Schematics (Upfitter Fuse Block (AU3 with WRF))



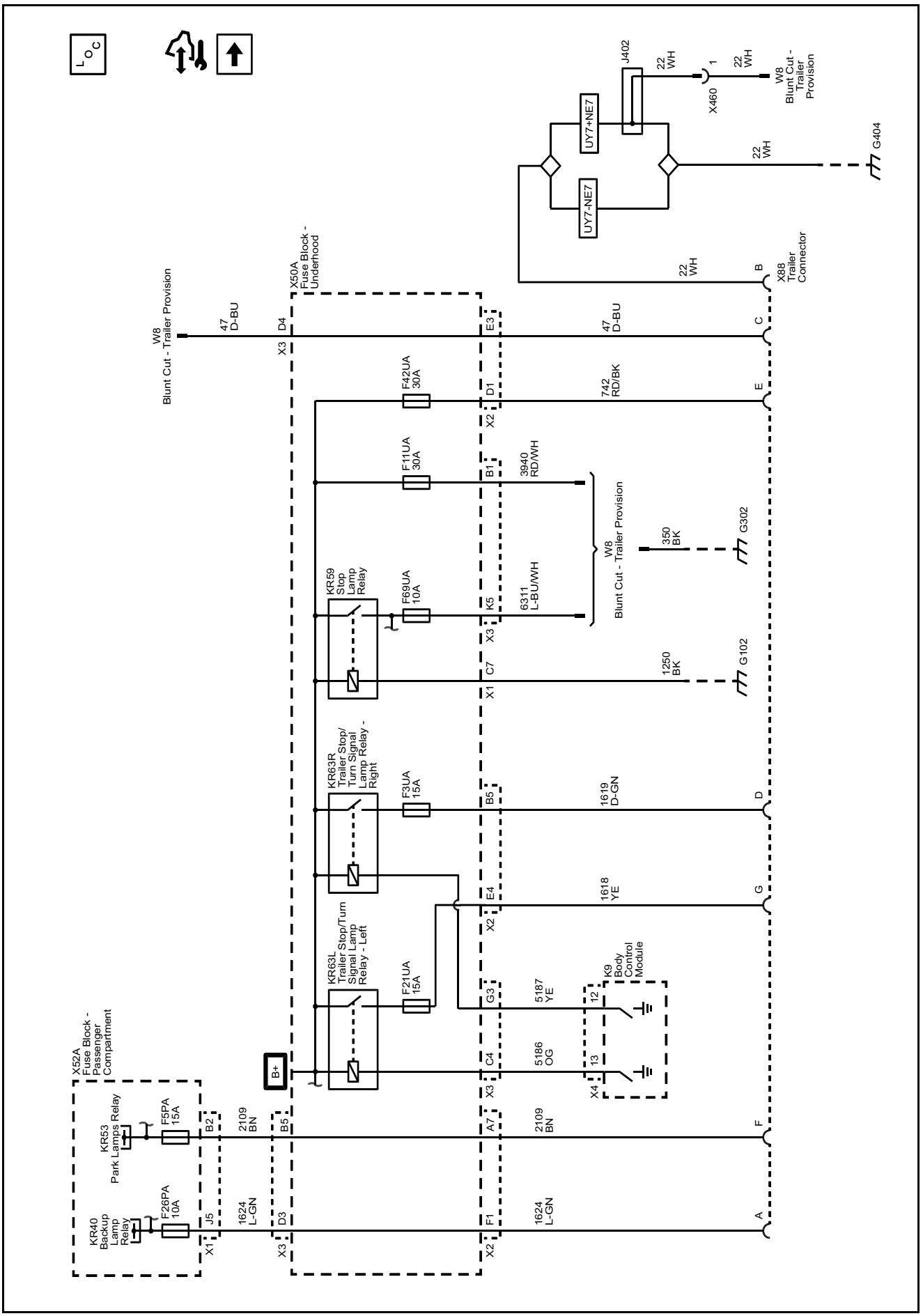
cardiagn.com

Upfitter Provision Schematics (Upfitter Fuse Block (9L7))



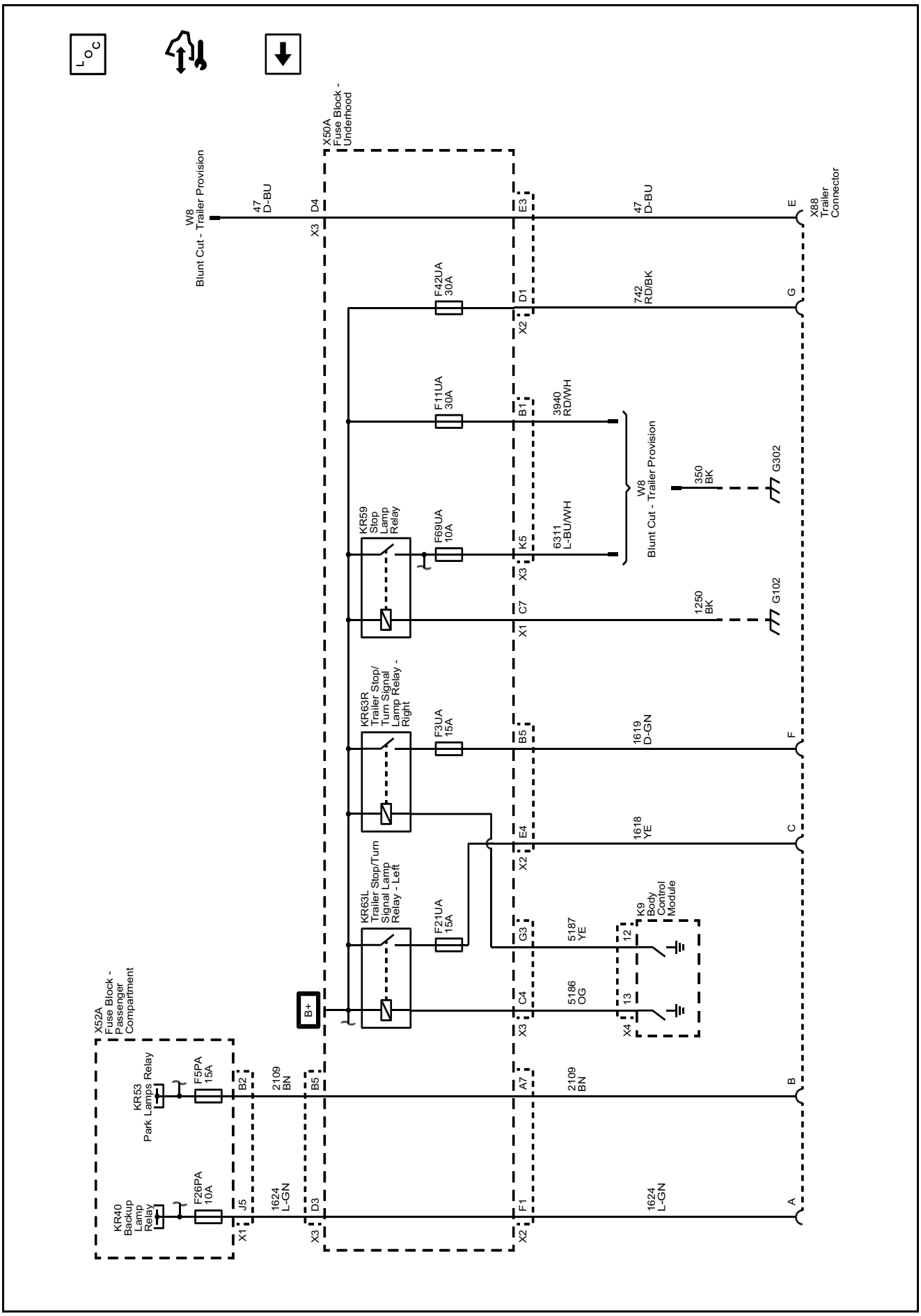
cardiagn.com

Trailer Connector/Provision Schematics (Trailer Connector/Provision (UY7 without NE7))



cardiagn.com

Trailer Connector/Provision Schematics (Trailer Connector/Provision (UY7 with NE7))



cardiagn.com

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	—	*A3L Sunshade - Left*
A3R	Sunshade - Right	DH6	On the upper right of the headliner	—	*A3R Sunshade - Right*
A5	Driver Information Center	—	Integral to P16 Instrument Cluster	—	—
A7	Fuel Pump and Level Sensor Assembly	—	In the vehicle underbody, in the fuel tank	• *Fuel Tank Components (NE7)* • *Fuel Tank Components (Without NE7)*	*A7 Fuel Pump and Level Sensor Assembly*
A9A	Outside Rearview Mirror - Driver	DEB or DE5	Attached to the exterior of the left front door	*Driver Door Components*	*A9A Outside Rearview Mirror - Driver*
A9B	Outside Rearview Mirror - Passenger	DEB or DE5	Attached to the exterior of the right front door	*Front Passenger Door Components*	*A9B Outside Rearview Mirror - Passenger*
A10	Inside Rearview Mirror	—	In the passenger compartment, mounted at the top center of the windshield	—	• *A10 Inside Rearview Mirror (UEU/UFL)* • *A10 Inside Rearview Mirror (-UEU/UFL)*
A11	Radio	—	In the center of the instrument panel	*Instrument Panel Components (1 of 2)*	• *A11 Radio X1* • *A11 Radio X2*
A12	Digital Radio Receiver Control Module	U2K or UBS	In the passenger compartment, mounted on a bracket under driver knee bolster panel	*Underside of Instrument Panel Components*	*A12 Digital Radio Receiver Control Module X1*
A23D	Door Latch Assembly - Driver	—	Towards the rear of the driver door	*Driver Door Components*	• *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 - Passenger X1* • *A23P Door Latch Assembly - Passenger X2*
A39	Reductant Fluid Reservoir Assembly	—	Under the vehicle, toward the rear, inside the reductant fluid tank	*Reductant Tank Components*	*A39 Reductant Fluid Reservoir Assembly*
A91	Mirror Display	UVC	Internal to A10 Inside Rearview Mirror	—	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
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)* • *Front of Engine Compartment Components (1 of 2)* • *Left Front of the Engine Components (LWN)*	*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	• *Front of Engine Compartment Components (1 of 2)* • *Front of Engine Compartment Components (2 of 2)*	*B1B A/C Low Side Pressure Switch*
B5LF	Wheel Speed Sensor - Left Front	—	At the left front wheel	• *Frame and Underbody Components (1 of 2)* • *Front Wheel Speed Sensor Components*	*B5LF Wheel Speed Sensor - Left Front*
B5LR	Wheel Speed Sensor - Left Rear	—	At the left rear wheel, attached to the backing plate	*Frame and Underbody Components (1 of 2)*	*B5LR Wheel Speed Sensor - Left Rear*
B5RF	Wheel Speed Sensor - Right Front	—	At the right front wheel	• *Frame and Underbody Components (1 of 2)* • *Front Wheel Speed Sensor Components*	• *B5RF Wheel Speed Sensor - Right Front (LWN)* • *B5RF Wheel Speed Sensor - Right Front (-LWN)*
B5RR	Wheel Speed Sensor - Right Rear	—	At the right rear wheel, attached to the backing plate	*Frame and Underbody Components (1 of 2)*	*B5RR Wheel Speed Sensor - Right Rear*
B9	Ambient Air Temperature Sensor	—	Attached to the front center of the radiator support	*Ambient Air Temperature Sensor (UFA)*	• *B9 Ambient Air Temperature Sensor (LV1)* • *B9 Ambient Air Temperature Sensor (LWN)* • *B9 Ambient Air Temperature Sensor (UFA)*
B10	Ambient Light Sensor	—	On the top of the instrument panel	*Instrument Panel Components (2 of 2)*	*B10 Ambient Light Sensor*
B12A	Transmission Fluid Pressure Switch	—	Internal to T12 Automatic Transmission Assembly	—	—
B13	Transmission Fluid Temperature Sensor	—	Internal to T12 Automatic Transmission Assembly	—	*B13 Transmission Fluid Temperature Sensor*
B14A	Transmission Output Shaft Speed Sensor	—	Internal to T12 Automatic Transmission Assembly	*Automatic Transmission Internal Electrical Components*	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B14C	Transmission Input Shaft Speed Sensor	—	Internal to T12 Automatic Transmission Assembly	—	—
B14D	Transmission Intermediate Shaft Speed Sensor	—	Under the vehicle, internal to the Transmision Assembly	—	—
B15	Transmission Internal Mode Switch	—	Internal to T12 Automatic Transmission Assembly	—	*B15 Transmission Internal Mode Switch (M5U)*
B18	Battery Current Sensor	—	Attached to the negative terminal of the battery	—	*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 compartment, attached to the left lower side of the brake fluid reservoir	• *Engine Compartment Components (1 of 2)* • *Upper Left Side of the Engine Components (LV1)*	*B20 Brake Fluid Level Switch*
B22	Brake Pedal Position Sensor	—	Attached to brake pedal assembly	*Instrument Panel Components (2 of 2)*	*B22 Brake Pedal Position Sensor*
B23	Camshaft Position Sensor	—	Front of the engine between the water pump and the crank pulley	• *Left Front Side of the Engine Components (L96 or LC8)* • *Left Front Side of the Engine Components (L96 or LC8)* • *Left Front Side of the Engine Components (LV1)* • *Right Front of Engine Components (LWN)*	• *B23 Camshaft Position Sensor (L96/LC8)* • *B23 Camshaft Position Sensor (LV1)* • *B23 Camshaft Position Sensor (LWN)*
B24	Mobile Telephone Microphone	UE1 or UI8	In the passenger compartment, in the overhead console	—	*B24 Mobile Telephone Microphone*
B26	Crankshaft Position Sensor	—	Attached to the lower right rear side of the engine, behind the starter	• *Left Front of the Engine Components (LWN)* • *Right Front Side of the Engine Components (L96 or LC8)*	• *B26 Crankshaft Position Sensor (L96/LC8)* • *B26 Crankshaft Position Sensor (LWN/LV1)*
B28F	Door Ajar Switch - Right Sliding	Cargo or Passenger	Mounted towards the bottom of the right rear door	• *Front of the Passenger Compartment Components* • *Right Side Hinged Door Components (E24)* • *Right Sliding Door Components (YA2)*	*B28F Door Ajar Switch - Right Sliding*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B33	Engine Coolant Level Switch	LWN	Right front of the engine compartment, attached to the bottom of the coolant surge tank	• *Front of Engine Compartment Components (1 of 2)* • *Front of Engine Compartment Components (2 of 2)*	*B33 Engine Coolant Level Switch*
B34	Engine Coolant Temperature Sensor	—	• On the left cylinder head at exhaust port 1 (L96/LC8) • Attached to the engine coolant thermostat housing (LWN)	• *Left Front Side of the Engine Components (L96 or LC8)* • *Left Front Side of the Engine Components (LV1)* • *Left Side of Engine Components (LWN)* • *Right Front Side of the Engine Components (LV1)*	• *B34 Engine Coolant Temperature Sensor (L96/LC8)* • *B34 Engine Coolant Temperature Sensor (LV1)* • *B34 Engine Coolant Temperature Sensor (LWN)*
B35	Engine Oil Level Switch	—	Attached to the left side of the oil pan	• *Right Front of Engine Components (LWN)* • *Right Front Side of the Engine Components (LV1)*	• *B35 Engine Oil Level Switch (LV1)* • *B35 Engine Oil Level Switch (LWN)*
B37B	Engine Oil Pressure Sensor	—	In engine compartment, on the rear lower left side of the engine	• *Left Front Side of the Engine Components (LV1)* • *Right Front of Engine Components (LWN)* • *Right Front Side of the Engine Components (L96 or LC8)*	• *B37B Engine Oil Pressure Sensor (L96/LC8)* • *B37B Engine Oil Pressure Sensor (LWN/LV1)*
B46	Fuel Level Sensor	LV1, L96, or LC8	Under the vehicle, in the fuel tank	• *Frame and Underbody Components (2 of 2)* • *Inside of Fuel Tank Components*	—
B47	Fuel Pressure Sensor	—	Under the vehicle , near the fuel tank	—	• *B47 Fuel Pressure Sensor (CUTAWAY)* • *B47 Fuel Pressure Sensor (-CUTAWAY)*
B47B	Fuel Rail Pressure Sensor	—	In the engine compartment, on top of the engine, mounted to the rear of the right fuel rail	• *Right Rear of Engine Components (LWN)* • *Top of the Engine Components (LV1)*	• *B47B Fuel Rail Pressure Sensor (LV1)* • *B47B Fuel Rail Pressure Sensor (LWN)*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B48	Fuel Temperature Sensor	—	Under the vehicle, near the transmission, located with the fuel filter	—	—
B52C	Heated Oxygen Sensor - Bank 1 Sensor 1	—	Attached to the left front exhaust pipe, front of the catalytic converter	• *Exhaust Components (L96 or LC8)* • *Exhaust Components (LV1)*	• *B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (L96/LC8)* • *B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (LV1)*
B52D	Heated Oxygen Sensor - Bank 1 Sensor 2	—	Attached to the left front exhaust pipe, back of the catalytic converter	• *Exhaust Components (L96 or LC8)* • *Exhaust Components (LV1)*	*B52D Heated Oxygen Sensor - Bank 1 Sensor 2*
B52E	Heated Oxygen Sensor - Bank 2 Sensor 1	—	Attached to the right front exhaust pipe, front of the catalytic converter	• *Exhaust Components (L96 or LC8)* • *Exhaust Components (LV1)*	*B52E Heated Oxygen Sensor - Bank 2 Sensor 1*
B52F	Heated Oxygen Sensor - Bank 2 Sensor 2	—	Attached to the right front exhaust pipe, rear of the catalytic converter	• *Exhaust Components (L96 or LC8)* • *Exhaust Components (LV1)*	• *B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (L96/LC8)* • *B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (LV1)*
B55	Engine Hood Switch	BTV	In the center front of the engine compartment, attached to the hood latch assembly	—	*B55 Engine Hood Switch*
B59	Front Impact Sensor	—	On the lower center of the radiator support	*Front of Engine Compartment Components (1 of 2)*	*B59 Front Impact Sensor*
B63LF	Side Impact Sensor - Left Front	ASF	In the left front side door	*Driver Door Components*	*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	*Left Rear Cargo Area Components (Passenger or Cargo)*	*B63LR Side Impact Sensor - Left Rear*
B63RF	Side Impact Sensor - Right Front	ASF	In the right front side door	*Front Passenger Door Components*	*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	• *Right Rear Frame Rail Components (Passenger with E24)* • *Right Rear Frame Rail Components (Passenger with YA2)*	*B63RR Side Impact Sensor - Right Rear*
B65	Intake Manifold Pressure and Air Temperature Sensor	LWN	In the engine compartment, attached to the intake manifold, on top of the engine	*Top of Engine Components (LWN)*	*B65 Intake Manifold Pressure and Air Temperature Sensor*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
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	• *Left Side of the Engine Components (LV1)* • *Lower Right Side of the Engine Components (L96 or LC8)* • *Right Front Side of the Engine Components (L96 or LC8)*	• *B68A Knock Sensor 1 (L96/LC8)* • *B68A Knock Sensor 1 (LV1)*
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 Front Side of the Engine Components (L96 or LC8)* • *Right Front Side of the Engine Components (LV1)*	• *B68B Knock Sensor 2 (L96/LC8)* • *B68B Knock Sensor 2 (LV1)*
B74	Manifold Absolute Pressure Sensor	—	In the engine compartment, attached to the intake manifold, on top of the engine	• *Left Front Side of the Engine Components (L96 or LC8)* • *Right Front Side of the Engine Components (L96 or LC8)* • *Top of the Engine Components (L96 or LC8)* • *Upper Left Side of the Engine Components (LV1)*	• *B74 Manifold Absolute Pressure Sensor (L96/LC8)* • *B74 Manifold Absolute Pressure Sensor (LV1)*
B75C	Multifunction Intake Air Sensor	—	Right front of the engine compartment, mounted in the air cleaner duct	• *Engine Compartment Components (2 of 2)* • *Right Rear of Engine Components (LWN)* • *Upper Left Side of the Engine Components (LV1)*	*B75C Multifunction Intake Air Sensor*
B80	Park Brake Switch	—	Left lower side of the instrument panel on the brake pedal assembly	*Instrument Panel Components (2 of 2)*	*B80 Park Brake Switch*
B87	Rearview Camera	UVC	On the right rear cargo door, in license plate trim	*Rear Exterior Lights (Passenger or Cargo)*	• *B87 Rearview Camera (CARGO/ PASSENGER)* • *B87 Rearview Camera (CUTAWAY)*
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 passenger seat, inside Seat Belt Buckle — Passenger	—	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
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 instrument panel, above the accelerator pedal	*Instrument Panel Components (2 of 2)*	*B107 Accelerator Pedal Position Sensor*
B116	Water in Fuel Sensor	—	In the engine compartment, at the right rear of the engine, mounted in the bottom of the fuel filter	—	—
B130A	Exhaust Gas Recirculation Temperature Sensor 1	LWN	In the engine compartment, on the top left rear side of the engine	*Right Rear of Engine Components (LWN)*	*B130A Exhaust Gas Recirculation Temperature Sensor 1*
B130B	Exhaust Gas Recirculation Temperature Sensor 2	LWN	In the engine compartment, on the top right front side of the engine	*Right Rear of Engine Components (LWN)*	*B130B Exhaust Gas Recirculation Temperature Sensor 2*
B131A	Exhaust Temperature Sensor 1	LWN	In the engine compartment, attached to the exhaust pipe, on the top left rear side of the engine	*Right Rear of Engine Components (LWN)*	*B131A Exhaust Temperature Sensor 1*
B131B	Exhaust Temperature Sensor 2	LWN	Under the vehicle, attached to the exhaust pipe, near the rear of the catalytic converter	*Right Rear of Engine Components (LWN)*	*B131B Exhaust Temperature Sensor 2*
B131C	Exhaust Temperature Sensor 3	LWN	Under the vehicle, attached to the exhaust pipe, at the middle of the diesel particulate filter	—	*B131C Exhaust Temperature Sensor 3*
B131D	Exhaust Temperature Sensor 4	LWN	Under the vehicle, attached to the exhaust pipe, near the rear of the diesel particulate filter	—	*B131D Exhaust Temperature Sensor 4*
B131E	Exhaust Temperature Sensor 5	LWN	Under the vehicle, attached to the exhaust pipe, after the diesel particulate filter	—	*B131E Exhaust Temperature Sensor 5*
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*
B134A	Coolant Heater Air Temperature Sensor	K08	Internal to E19 Coolant Heater	*Coolant Heater Components (K08)*	—
B134B	Coolant Heater Combustion Sensor	K08	Internal to E19 Coolant Heater	*Coolant Heater Components (K08)*	—
B134C	Coolant Heater Overheat Sensor	K08	Internal to E19 Coolant Heater	*Coolant Heater Components (K08)*	—
B135	Coolant Heater Temperature Sensor	K08	Internal to E19 Coolant Heater	—	—
B136	Exhaust Particulate Matter Sensor	LWN	Mounted to the exhaust, towards the rear of the engine harness	—	*B136 Exhaust Particulate Matter Sensor*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B150	Fuel Tank Pressure Sensor	L96/LC8/LV1	Attached to the top of the fuel sender assembly	• *Fuel Tank Components (NE7)* • *Fuel Tank Components (Without NE7)*	*B150 Fuel Tank Pressure Sensor*
B153D	Seat Belt Buckle - Driver	—	Right side of the driver seat	*Driver Seat Components*	*B153D Seat Belt Buckle - Driver*
B153P	Seat Belt Buckle - Passenger	AK5	Left side of the front passenger seat	*Passenger Seat Components*	*B153P Seat Belt Buckle - Passenger*
B154	Diesel Particulate Filter Exhaust Differential Pressure Sensor	LWN	Under the vehicle, near the rear of the catalytic converter	—	*B154 Diesel Particulate Filter Exhaust Differential Pressure Sensor*
B174W	Frontview Camera - Windshield	UFL	In the passenger compartment, mounted at the top center of the windshield	—	*B174W Frontview Camera - Windshield*
B176	Multi-axis Acceleration Sensor Module	—	In the passenger compartment, on the front center on the floor board between the front seats	• *Frame and Underbody Components (1 of 2)* • *Front of the Passenger Compartment Components*	*B176 Multi-axis Acceleration Sensor Module*
B193A	Charge Air Cooler Inlet Temperature Sensor	LWN	In the engine compartment, attached to the intake manifold, front of the turbocharger	*Right Rear of Engine Components (LWN)*	*B193A Charge Air Cooler Inlet Temperature Sensor*
B193B	Charge Air Cooler Outlet Temperature Sensor	LWN	On the top right front of the engine compartment, near the coolant surge tank	• *Front of Engine Compartment Components (2 of 2)* • *Left Side of Engine Components (LWN)*	*B193B Charge Air Cooler Outlet Temperature Sensor*
B194	Reductant Pressure Sensor	LWN	Under the vehicle, above the reductant tank	—	—
B195A	Nitrogen Oxides Sensor 1	LWN	Under the vehicle	*Right Rear of Engine Components (LWN)*	*B195A Nitrogen Oxides Sensor 1*
B195B	Nitrogen Oxides Sensor 2	LWN	Under the vehicle	—	*B195B Nitrogen Oxides Sensor 2*
B198	Fuel Composition Sensor	L96	Under the vehicle	—	*B198 Fuel Composition Sensor (FHS)*
B213	Reductant Level Sensor	LWN	Under the vehicle, toward the rear, inside the reductant fluid tank	—	—
B214	Reductant Temperature Sensor	LWN	Under the vehicle, toward the rear, inside the reductant fluid tank	—	—
B218L	Side Object Sensor Module - Left	UFT	At the rear of the vehicle, in the rear bumper, at the left corner	—	*B218L Side Object Sensor Module - Left*
B218R	Side Object Sensor Module - Right	UFT	At the rear of the vehicle, in the rear bumper, at the right corner	—	*B218R Side Object Sensor Module - Right*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
B295	Reductant Quality Sensor	LWN	Under the vehicle, mounted to the outboard side of the frame, below the passenger side of the cab attached to the reductant fluid inlet line near the reductant pump and sensor assembly	*Reductant Tank Components*	*B295 Reductant Quality Sensor*
B306E	Parking Assist Sensor - Rear Left Outer	UD7	At the rear of the vehicle, housed in the rear fascia	*Rear Exterior Lights (Passenger or Cargo)*	*B306E Parking Assist Sensor - Rear Left Outer*
B306F	Parking Assist Sensor - Rear Left Middle	UD7	At the rear of the vehicle, housed in the rear fascia	*Rear Exterior Lights (Passenger or Cargo)*	*B306F Parking Assist Sensor - Rear Left Middle*
B306G	Parking Assist Sensor - Rear Right Middle	UD7	At the rear of the vehicle, housed in the rear fascia	*Rear Exterior Lights (Passenger or Cargo)*	*B306G Parking Assist Sensor - Rear Right Middle*
B306H	Parking Assist Sensor - Rear Right Outer	UD7	At the rear of the vehicle, housed in the rear fascia	*Rear Exterior Lights (Passenger or Cargo)*	*B306H Parking Assist Sensor - Rear Right Outer*
C1	Battery	—	At the right front side of the engine compartment	• *Engine Compartment Components (1 of 2)* • *Front of Engine Compartment Components (2 of 2)*	• *C1 Battery ((-))* • *C1 Battery ((+))*
C1B	Battery - Auxiliary	LWN or TP2	Left frame rail, center of the vehicle	*Frame and Underbody Components (2 of 2)*	• *C1B Battery - Auxiliary (L96/LC8)* • *C1B Battery - Auxiliary (LV1+TP2)* • *C1B Battery - Auxiliary (LWN)* • *C1B Battery - Auxiliary (LWN+TP2)*
E2LF	Side Marker Lamp - Left Front	—	In the left front corner of the vehicle	• *Front Exterior Lighting (Base)* • *Front Exterior Lighting (Uplevel)*	*E2LF Side Marker Lamp - Left Front*
E2RF	Side Marker Lamp - Right Front	—	In the right front corner of the vehicle	• *Front Exterior Lighting (Base)* • *Front Exterior Lighting (Uplevel)*	*E2RF Side Marker Lamp - Right Front*
E4E	Headlamp - Left High Beam	V22	At the left front of the vehicle	*Front Exterior Lighting (Uplevel)*	*E4E Headlamp - Left High Beam (V22)*
E4F	Headlamp - Right High Beam	V22	At the right front of the vehicle	*Front Exterior Lighting (Uplevel)*	*E4F Headlamp - Right High Beam (V22)*
E4G	Headlamp - Left Low Beam	V22	At the left front of the vehicle	*Front Exterior Lighting (Uplevel)*	*E4G Headlamp - Left Low Beam (V22)*
E4H	Headlamp - Right Low Beam	V22	At the right front of the vehicle	*Front Exterior Lighting (Uplevel)*	*E4H Headlamp - Right Low Beam (V22)*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
E4N	Park/Turn Signal Lamp - Left	—	In the left front corner of the vehicle	• *Front Exterior Lighting (Base)* • *Front Exterior Lighting (Uplevel)*	*E4N Park/Turn Signal Lamp - Left*
E4P	Park/Turn Signal Lamp - Right	—	In the right front corner of the vehicle	• *Front Exterior Lighting (Base)* • *Front Exterior Lighting (Uplevel)*	*E4P Park/Turn Signal Lamp - Right*
E5A	Backup Lamp - Left	—	Attached to the left tail lamp assembly	*Rear Exterior Lights (Passenger or Cargo)*	*E5A Backup Lamp - Left*
E5B	Backup Lamp - Right	—	Attached to the right tail lamp assembly	*Rear Exterior Lights (Passenger or Cargo)*	*E5B Backup Lamp - Right*
E5S	Tail/Stop and Turn Signal Lamp - Left	Passenger or Cargo	Attached to the left tail lamp assembly, upper bulb	*Rear Exterior Lights (Passenger or Cargo)*	*E5S Tail/Stop and Turn Signal Lamp - Left*
E5T	Tail/Stop and Turn Signal Lamp - Right	Passenger or Cargo	Attached to the right tail lamp assembly, upper bulb	*Rear Exterior Lights (Passenger or Cargo)*	*E5T Tail/Stop and Turn Signal Lamp - Right*
E6	Center High Mounted Stop Lamp	Passenger or Cargo	At the top rear center of the vehicle	*Rear Exterior Lights (Passenger or Cargo)*	*E6 Center High Mounted Stop Lamp*
E7	License Plate Lamp	Passenger or Cargo	Attached to the outer right cargo door, above the license plate mount	*Rear Exterior Lights (Passenger or Cargo)*	*E7 License Plate Lamp*
E11	Fuel Heater	LWN	In the engine compartment, at the right rear of the engine, mounted in the bottom of the fuel filter	—	—
E11A	Fuel Heater/Water in Fuel Sensor	LWN	Under the vehicle, near the transmission, located with the fuel filter	—	*E11A Fuel Heater/ Water in Fuel Sensor*
E12A	Glow Plug 1	LWN	In the engine compartment, on the top left of the engine	*Top of Engine Components (LWN)*	*E12A Glow Plug 1*
E12B	Glow Plug 2	LWN	In the engine compartment, on the top left of the engine	*Top of Engine Components (LWN)*	*E12B Glow Plug 2*
E12C	Glow Plug 3	LWN	In the engine compartment, on the top left of the engine	*Top of Engine Components (LWN)*	*E12C Glow Plug 3*
E12D	Glow Plug 4	LWN	In the engine compartment, on the top left of the engine	*Top of Engine Components (LWN)*	*E12D Glow Plug 4*
E13L	Headlamp - Left	Without V22	At the left front of the vehicle	*Front Exterior Lighting (Base)*	*E13L Headlamp - Left (-V22)*
E13R	Headlamp - Right	Without V22	At the right front of the vehicle	*Front Exterior Lighting (Base)*	*E13R Headlamp - Right (-V22)*
E18L	Rear Defogger Grid - Left	C49	Attached to the left cargo door window	*Rear Door Components (Passenger or Cargo)*	• *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 Components (Passenger or Cargo)*	• *E18R Rear Defogger Grid - Right X1* • *E18R Rear Defogger Grid - Right X2*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
E19	Coolant Heater	K08	Attached to the left front inner frame rail	• *Coolant Heater Components (K08)* • *Frame and Underbody Components (2 of 2)*	*E19 Coolant Heater*
E20	Coolant Heater Glow Plug	K08	Internal to E19 Coolant Heater	*Coolant Heater Components (K08)*	—
E21A	Fluorescent Work Lamp - Right Access Panel	PRP	Mounted towards the right of the top access panel	—	*E21A Fluorescent Work Lamp - Right Access Panel*
E21F	Fluorescent Work Lamp - Front Cargo	PRP	Mounted towards the top front of the cargo area	—	*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	—	*E21LR Fluorescent Work Lamp - Left Rear Access Panel*
E21R	Fluorescent Work Lamp - Rear Cargo	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	*Underside of Hood Components*	*E22 Underhood Lamp*
E31L	Sunshade Mirror Lamp - Left	DH6	On the upper left of the headliner, inside the Sunshade — Left	*Headliner Components*	—
E31R	Sunshade Mirror Lamp - Right	DH6	On the upper right of the headliner, in the Sunshade — Right	*Headliner Components*	—
E32	Cigarette Lighter Receptacle	DT4	Slightly below and to the left of the radio	*Instrument Panel Components (1 of 2)*	*E32 Cigarette Lighter Receptacle (DT4)*
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	*Headliner Components*	*E37F Dome/Reading Lamps - Front*
E37M	Dome/Reading Lamps - Middle	Passenger	In the center of the roof panel	*Headliner Components*	*E37M Dome/Reading Lamps - Middle*
E37R	Dome/Reading Lamps - Rear	Passenger	In the rear of the roof panel	*Headliner Components*	*E37R Dome/Reading Lamps - Rear*
E45	Positive Crankcase Ventilation Heater	LWN	In the engine compartment, attached to the top front of the engine	*Right Front of Engine Components (LWN)*	*E45 Positive Crankcase Ventilation Heater*
E52	Reductant Line Heater	LWN	Under the vehicle, above the reductant tank	*Reductant Tank Components*	*E52 Reductant Line Heater*
E53	Reductant Tank Heater	LWN	Under the vehicle, inside the reductant tank	—	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
F101	Passenger Instrument Panel Air Bag	—	Right side of the instrument panel	• *Instrument Panel Components (1 of 2)* • *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	*Front of the Passenger Compartment Components*	*F105LF Roof Rail Air Bag - Left Front*
F105RF	Roof Rail Air Bag - Right Front	ASF	Behind the right side of the headliner trim	*Front of the Passenger Compartment 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	—	*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*
F106P	Seat Side Air Bag - Passenger	AK5	Within the passenger seat back, towards the outside	—	*F106P Seat Side Air Bag - Passenger*
F107	Steering Wheel Air Bag	—	Attached to the center of the steering wheel	• *Instrument Panel Components (1 of 2)* • *Steering Column Components (1 of 2)*	*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*
G7	Coolant Heater Fuel Pump	K08	Attached to the left inner frame rail, near the fuel pump assembly	• *Coolant Heater Components (K08)* • *Frame and Underbody Components (2 of 2)*	*G7 Coolant Heater Fuel Pump*
G12	Fuel Pump	LV1, L96, or LC8	Under the vehicle, internally attached to the middle of the fuel pump assembly	*Frame and Underbody Components (2 of 2)*	—
G12A	Fuel Pump - Primary	—	Under the vehicle, in the fuel tank, part of the fuel pump and level sensor assembly	—	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
G13	Generator	—	Attached to the right front of the engine	• *Left Front of the Engine Components (LWN)* • *Left Front Side of the Engine Components (L96 or LC8)*	• *G13 Generator X1 (L96/LC8)* • *G13 Generator X1 (LV1)* • *G13 Generator X1 (LWN)* • *G13 Generator X2 (L96/LC8+K68)* • *G13 Generator X2 (L96/LC8 +KG4/KW5)* • *G13 Generator X2 (LV1+K68)* • *G13 Generator X2 (LV1-K68)* • *G13 Generator X2 (LWN)*
G18	High Pressure Fuel Pump	LV1	In the engine compartment, at the top rear of the engine, between the cylinder heads	*Top of the Engine Components (LV1)*	*G18 High Pressure Fuel Pump*
G24	Windshield Washer Pump	—	Attached to the windshield washer fluid reservoir in the right front of the engine compartment	*Front of Engine Compartment Components (1 of 2)*	*G24 Windshield Washer Pump*
G33	Reductant Pump	LWN	Under the vehicle, above the reductant tank	—	—
K9	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 X6* • *K9 Body Control Module X7*
K10	Coolant Heater Control Module	K08	Internal to the coolant heater assembly	*Coolant Heater Components (K08)*	—
K17	Electronic Brake Control Module	—	Attached to the left frame rail, near the center of the vehicle	*Frame and Under-body Components (1 of 2)*	*K17 Electronic Brake Control Module*
K18	Compass Module	U80	In the front of the headliner	*Headliner Compo-nents*	*K18 Compass Module*

cardiagn.com

Master Electrical Component List (cont'd)

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)* • *Engine Compartment Components (2 of 2)*	• *K20 Engine Control Module X1 (L96/LC8)* • *K20 Engine Control Module X1 (LV1)* • *K20 Engine Control Module X1 (LWN)* • *K20 Engine Control Module X2 (L96/LC8)* • *K20 Engine Control Module X2 (LV1)* • *K20 Engine Control Module X2 (LWN)* • *K20 Engine Control Module X3 (L96/LC8)* • *K20 Engine Control Module X3 (LV1)* • *K20 Engine Control Module X3 (LWN)*
K33A	HVAC Control Module - Auxiliary	—	In the front of the headliner	—	*K33A HVAC Control Module - Auxiliary*
K36	Inflatable Restraint Sensing and Diagnostic Module	—	Below the driver seat under the carpet on the floor board	*Front of the Passenger Compartment Components*	• *K36 Inflatable Restraint Sensing and Diagnostic Module X1* • *K36 Inflatable Restraint Sensing and Diagnostic Module X2*
K38	Chassis Control Module	—	Under the vehicle, attached to the left frame rail, apprximately midpoint of vehicle	—	*K38 Chassis Control Module*
K64	Content Theft Deterrent 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 (LV1)* • *K71 Transmission Control Module (LWN)*
K73	Telematics Communication Interface Control Module	UE1	In the passenger compartment, mounted on a bracket under driver knee bolster panel	*Underside of Instrument Panel Components*	• *K73 Telematics Communication Interface Control Module X1* • *K73 Telematics Communication Interface Control Module X2*
K77	Remote Control Door Lock Receiver	ATG or 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*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
K115	Reductant Control Module	LWN	Under the vehicle, mounted on the top of the reductant fluid tank	*Reductant Tank Components*	• *K115 Reductant Control Module X1* • *K115 Reductant Control Module X2*
K182	Parking Assist Control Module	UD7	In the passenger compartment, mounted within the instrument panel on the right side if the steering column	—	• *K182 Parking Assist Control Module X1* • *K182 Parking Assist Control Module X2*
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	—	*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	—	*M2D Access Panel Unlatch Actuator - Left Rear Side Rear*
M2E	Access Panel Unlatch Actuator - Right Side Front	PRP	Inside the right access panel area	—	*M2E Access Panel Unlatch Actuator - Right Side Front*
M2F	Access Panel Unlatch 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 Components*	*M6 Air Temperature Door Actuator*
M6B	Air Temperature Door Actuator - Auxiliary	C69	In the left rear of the passenger compartment, attached to the auxiliary HVAC module	*Left Rear Cargo Area Components (Passenger or Cargo)*	*M6B Air Temperature Door Actuator - Auxiliary*
M7	Transmission Shift Lock Control Solenoid Actuator	—	Attached to the right side of the steering column	*Steering Column Components (1 of 2)*	*M7 Transmission Shift Lock Control Solenoid Actuator (MYD)*
M8	Blower Motor	—	Right rear of the engine compartment, attached to the evaporator case	*Engine Compartment Components (1 of 2)*	*M8 Blower Motor*
M8B	Blower Motor - Auxiliary	C36 or C69	In the left rear of the passenger compartment, attached to the auxiliary HVAC module	*Left Rear Cargo Area Components (Passenger or Cargo)*	*M8B Blower Motor - Auxiliary*
M11	Coolant Heater Blower Motor	K08	Internal to the coolant heater assembly	*Coolant Heater Components (K08)*	—
M13	Door Latch Assembly - Rear Cargo	Passenger or Cargo	Attached to the right cargo door latch, in the right cargo door	*Rear Door Components (Passenger or Cargo)*	• *M13 Door Latch Assembly - Rear Cargo X1* • *M13 Door Latch Assembly - Rear Cargo X2*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
M14RR	Door Lock Actuator - Right Rear	AU3	Attached to the right rear door latch, in the right rear door	• *Right Side Hinged Door Components (E24)* • *Right Sliding Door Components (YA2)*	• *M14RR Door Lock Actuator - Right Rear (E24)* • *M14RR Door Lock Actuator - Right Rear (YA2)*
M37B	Mode Door Actuator - Auxiliary	C69	In the left rear of the passenger compartment, attached to the auxiliary HVAC module	*Left Rear Cargo Area Components (Passenger or Cargo)*	*M37B Mode Door Actuator - Auxiliary*
M49D	Seat Motor Assembly - Driver	AG1	Below the left front seat, attached to the seat frame	*Driver Seat Components*	*M49D Seat Motor Assembly - Driver (AG1)*
M49P	Seat Motor Assembly - Passenger	AG2	Below the right front seat, attached to the seat frame	*Passenger Seat Components*	*M49P Seat Motor Assembly - Passenger (AG2)*
M64	Starter Motor	—	Attached to the lower right rear of the engine	• *Left Front of the Engine Components (LWN)* • *Right Front Side of the Engine Components (L96 or LC8)* • *Right Front Side of the Engine Components (LV1)*	• *M64 Starter Motor X1 (L96/ LC8+TP2)* • *M64 Starter Motor X1 (L96/LC8-TP2)* • *M64 Starter Motor X1 (LV1)* • *M64 Starter Motor X1 (LWN)* • *M64 Starter Motor X2 (L96/LC8)* • *M64 Starter Motor X2 (LV1)* • *M64 Starter Motor X2 (LWN)*
M74D	Window Motor - Driver	A31	Attached to the interior of the left front door	*Driver Door Components*	*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	—	In the left side of the cowl, near the engine compartment	*Front of Engine Compartment Components (1 of 2)*	*M75 Windshield Wiper Motor*
M103	Turbocharger Vane Position Actuator	LWN	In the engine compartment, attached to the turbocharger	*Right Rear of Engine Components (LWN)*	*M103 Turbocharger Vane Position Actuator*
P3	Backup Alarm	8S3	In the rear of the vehicle on the frame	—	*P3 Backup Alarm*
P13	Horn Assembly	—	In the left front engine compartment behind the left headlamp	• *Engine Compartment Components (2 of 2)* • *Front of 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 Cluster*
P19AG	Speaker - Left Front Door	—	Attached to the left front door	*Driver Door Components*	*P19AG Speaker - Left Front Door*
P19AH	Speaker - Right Front Door	—	Attached to the right front door	*Front Passenger Door Components*	*P19AH Speaker - Right Front Door*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
P19F	Speaker - Left Rear Cargo Door	US8	Attached to the left cargo door	*Rear Door Components (Passenger or Cargo)*	*P19F Speaker - Left Rear Cargo Door*
P19LR	Speaker - Left Rear Roof	Cargo or Passenger	In the left rear headliner of the vehicle	*Rear Door Components (Passenger or Cargo)*	*P19LR Speaker - Left Rear Roof*
P19RR	Speaker - Right Rear Roof	Cargo or Passenger	In the right rear upper headliner of the vehicle	*Rear Door Components (Passenger or Cargo)*	*P19RR Speaker - Right Rear Roof*
P19T	Speaker - Right Rear Cargo Door	US8	Attached to the right cargo door	*Rear Door Components (Passenger or Cargo)*	*P19T Speaker - Right Rear Cargo Door*
P34D	Side Object Detection Indicator - Driver	UFT	Internal to the outside rearview mirror - driver	—	—
P34P	Side Object Detection Indicator - Passenger	UFT	Internal to the outside rearview mirror - passenger	—	—
P43	Collision Alert Indicators	UFL	Within the instrument cluster	—	*P43 Collision Alert Indicators*
Q1A	1-2 Shift Solenoid Valve	—	Internal T12 Automatic Transmission Assembly	—	—
Q1B	2-3 Shift Solenoid Valve	—	Internal T12 Automatic Transmission Assembly	—	—
Q2	A/C Compressor Clutch	C60	On the front of the A/C compressor lower right front of engine	• *Front of Engine Compartment Components (1 of 2)* • *Left Front of the Engine Components (LWN)*	• *Q2 A/C Compressor Clutch (L96/LC8)* • *Q2 A/C Compressor Clutch (LV1)* • *Q2 A/C Compressor Clutch (LWN)*
Q6	Camshaft Position Actuator Solenoid Valve	LV1, L96, or LC8	Front of the engine behind the center of the water pump	• *Left Front Side of the Engine Components (L96 or LC8)* • *Left Front Side of the Engine Components (LV1)*	• *Q6 Camshaft Position Actuator Solenoid Valve (L96/LC8)* • *Q6 Camshaft Position Actuator Solenoid Valve*
Q8	Control Solenoid Valve Assembly	—	Internal to T12 Automatic Transmission Assembly	*Automatic Transmission Internal Electrical Components*	—
Q12	Evaporative Emission Purge Solenoid Valve	LV1, L96, or LC8	On the top of the engine, rear of the throttle body	• *Left Front Side of the Engine Components (L96 or LC8)* • *Top of the Engine Components (L96 or LC8)* • *Upper Left Side of the Engine Components (LV1)*	• *Q12 Evaporative Emission Purge Solenoid Valve (L96/LC8)* • *Q12 Evaporative Emission Purge Solenoid Valve (LV1)*
Q13	Evaporative Emission Vent Solenoid Valve	LV1, L96, or LC8	Attached to the side of the EVAP canister, front of the fuel tank	—	*Q13 Evaporative Emission Vent Solenoid Valve*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
Q14	Exhaust Gas Recirculation Valve	LWN	In the engine compartment, on the top right of the engine	*Left Front of the Engine Components (LWN)*	*Q14 Exhaust Gas Recirculation Valve*
Q17A	Fuel Injector 1	—	On the left side of the intake manifold, at the #1 cylinder intake port	• *Right Rear of Engine Components (LWN)* • *Top of the Engine Components (LV1)*	• *Q17A Fuel Injector 1 (L96/LC8)* • *Q17A Fuel Injector 1 (LV1)* • *Q17A Fuel Injector 1 (LWN)*
Q17B	Fuel Injector 2	—	On the right side of the intake manifold, at the #2 cylinder intake port	• *Right Rear of Engine Components (LWN)* • *Top of the Engine Components (LV1)* • *Upper Right Side of the Engine Components (L96 or LC8)*	• *Q17B Fuel Injector 2 (L96/LC8)* • *Q17B Fuel Injector 2 (LV1)* • *Q17B Fuel Injector 2 (LWN)*
Q17C	Fuel Injector 3	—	On the left side of the intake manifold, at the #3 cylinder intake port	• *Right Rear of Engine Components (LWN)* • *Top of the Engine Components (LV1)*	• *Q17C Fuel Injector 3 (L96/LC8)* • *Q17C Fuel Injector 3 (LV1)* • *Q17C Fuel Injector 3 (LWN)*
Q17D	Fuel Injector 4	—	On the right side of the intake manifold, at the #4 cylinder intake port	• *Right Rear of Engine Components (LWN)* • *Top of the Engine Components (LV1)* • *Upper Right Side of the Engine Components (L96 or LC8)*	• *Q17D Fuel Injector 4 (L96/LC8)* • *Q17D Fuel Injector 4 (LV1)* • *Q17D Fuel Injector 4 (LWN)*
Q17E	Fuel Injector 5	—	On the left side of the intake manifold, at the #5 cylinder intake port	*Top of the Engine Components (LV1)*	• *Q17E Fuel Injector 5 (L96/LC8)* • *Q17E Fuel Injector 5 (LV1)*
Q17F	Fuel Injector 6	—	On the right side of the intake manifold, at the #6 cylinder intake port	• *Top of the Engine Components (LV1)* • *Upper Right Side of the Engine Components (L96 or LC8)*	• *Q17F Fuel Injector 6 (L96/LC8)* • *Q17F Fuel Injector 6 (LV1)*
Q17G	Fuel Injector 7	L96, or LC8	On the left side of the intake manifold, at the #7 cylinder intake port	—	*Q17G Fuel Injector 7*
Q17H	Fuel Injector 8	L96, or LC8	On the right side of the intake manifold, at the #8 cylinder intake port	*Upper Right Side of the Engine Components (L96 or LC8)*	*Q17H Fuel Injector 8*
Q18A	Fuel Pressure Regulator 1	LWN	In the engine compartment, mounted on top of the fuel injection pump	*Left Front of the Engine Components (LWN)*	*Q18A Fuel Pressure Regulator 1*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
Q18B	Fuel Pressure Regulator 2	LWN	In the engine compartment, mounted to the front of the left fuel rail	*Left Front of the Engine Components (LWN)*	*Q18B Fuel Pressure Regulator 2*
Q20	Intake Air Flow Valve	LWN	Attached to the center front of the intake manifold	—	*Q20 Intake Air Flow Valve*
Q27A	Pressure Control Solenoid Valve 1	—	Internal to T12 Automatic Transmission Assembly	—	—
Q27B	Pressure Control Solenoid Valve 2	—	Internal to T12 Automatic Transmission Assembly	—	—
Q27C	Pressure Control Solenoid Valve 3	—	Internal to T12 Automatic Transmission Assembly	—	—
Q27D	Pressure Control Solenoid Valve 4	—	Internal to T12 Automatic Transmission Assembly	—	—
Q27E	Pressure Control Solenoid Valve 5	—	Internal to T12 Automatic Transmission Assembly	—	—
Q38	Throttle Body	LV1, L96, or LC8	Attached to the center front of the intake manifold	• *Left Front of the Engine Components (LWN)* • *Left Front Side of the Engine Components (L96 or LC8)* • *Right Front Side of the Engine Components (L96 or LC8)* • *Top of the Engine Components (L96 or LC8)*	*Q38 Throttle Body*
Q39A	Torque Converter Clutch Pressure Control Solenoid Valve	—	Internal to T12 Automatic Transmission Assembly	—	—
Q44	Engine Oil Pressure Control Solenoid Valve	LV1	In the engine compartment, at the front of the engine, behind the front cover	—	*Q44 Engine Oil Pressure Control Solenoid Valve (LV1)*
Q47	Exhaust Gas Recirculation Cooler Bypass Solenoid Valve	LWN	In the engine compartment, on the left side of the engine attached to the EGR valve	*Right Front of Engine Components (LWN)*	*Q47 Exhaust Gas Recirculation Cooler Bypass Solenoid Valve*
Q61	Reductant Injector	LWN	Under the vehicle, attached to the exhaust pipe, near the rear of the catalytic converter	—	*Q61 Reductant Injector*
Q67	Exhaust After-treatment Fuel Injector	LWN	In the engine compartment, on the right rear side of the engine	—	*Q67 Exhaust After-treatment Fuel Injector*
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)*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
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)*
Q85	Cooling Fan Clutch	LWN	In the engine compartment, attached to the cooling fan	• *Front of Engine Compartment Components (1 of 2)* • *Left Side of Engine Components (LWN)*	*Q85 Cooling Fan Clutch (LWN)*
R3	Blower Motor Resistor	—	Right rear of the engine compartment, attached to the evaporator case	*Engine Compartment Components (1 of 2)*	*R3 Blower Motor Resistor*
R3B	Blower Motor Resistor - Auxiliary	C36 or C69	In the left rear of the passenger compartment, attached to the auxiliary HVAC module	*Left Rear Cargo Area Components (Passenger or Cargo)*	*R3B Blower Motor Resistor - Auxiliary*
R6A	Terminating Resistor - High Speed Bus	—	In the engine compartment	—	*R6A Terminating Resistor - High Speed Bus*
R10	Cooling Fan Resistor	LWN	In the engine compartment	—	*R10 Cooling Fan Resistor*
S2	Transmission Manual Shift Switch	MYD	Mounted on the shift lever, extending from the right side of the steering column	—	*S2 Transmission Manual Shift Switch (MYD)*
S13A	Door Lock Switch - Rear Cargo	Passenger or Cargo with AU3	Attached to the right cargo door accessory mount plate	*Rear Door Components (Passenger or Cargo)*	*S13A Door Lock Switch - Rear Cargo*
S13D	Door Lock Switch - Driver	AU3	Attached to the left front door accessory mount plate	*Driver Door Components*	*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)*	*S30 Headlamp Switch*
S33	Horn Switch	—	Inside the upper steering column, behind the inflatable restraint steering wheel module	*Steering Column Components (1 of 2)*	*S33 Horn Switch*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
S34	HVAC Controls Switch Assembly	—	In the center of the instrument 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 X4*
S34F	HVAC Controls Switch Assembly - Auxiliary Front	C36 or C69	On the front of the overhead console	*Headliner Components*	• *S34F HVAC Controls Switch Assembly - Auxiliary Front (REAR HVAC CONTROLS)* • *S34F HVAC Controls Switch Assembly - Auxiliary Front (-REAR HVAC CONTROLS)*
S34R	HVAC Controls Switch Assembly - Auxiliary Rear	C36 or C69 with Rear HVAC Controls	In the headliner, near the center of the vehicle	*Headliner Components*	*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 instrument panel	*Instrument Panel Components (1 of 2)*	*S40 Passenger Air Bag Disable Switch*
S51	Telematics Button Assembly	UE1	In the center of the instrument panel, just below the radio	—	*S51 Telematics Button Assembly*
S52	Outside Rearview Mirror Switch	DEB or DE5	Attached to the left front door accessory mount plate	*Driver Door Components*	*S52 Outside Rearview Mirror Switch*
S64D	Seat Adjuster Switch - Driver	AG1	Attached to the front panel of the driver seat	*Driver Seat Components*	*S64D Seat Adjuster Switch - Driver (AG1)*
S64P	Seat Adjuster Switch - Passenger	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	*Instrument Panel Components (1 of 2)*	*S70L Steering Wheel Controls Switch - Left (K34)*
S70R	Steering Wheel Controls Switch - Right	W1Y	On the right steering wheel spoke	*Instrument Panel Components (1 of 2)*	*S70R Steering Wheel Controls Switch - Right (W1Y)*
S74	Tow/Haul Mode Switch	—	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 instrument panel	*Instrument Panel Components (1 of 2)*	*S75 Traction Control Switch*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
S78	Turn Signal/Multi-function Switch	—	On the left side of the steering column	• *Instrument Panel Components (1 of 2)* • *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	*Driver Door Components*	*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 or C69	In the center of the instrument panel	*Instrument Panel Components (1 of 2)*	*S85 Auxiliary Blower Motor Switch*
S155	Lane Departure Warning Switch	—	Near the center of the instrument panel, below the radio	—	*S155 Lane Departure Warning Switch*
T1	Accessory DC/AC Power Inverter Module	KI4	Attached to the Instrument Panel Harness	—	*T1 Accessory DC/AC Power Inverter Module*
T4G	Cellular Phone, Navigation, and Digital Radio Antenna	U2K, UBS, or UI8	Mounted towards the left front of the roof	—	—
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 Communication Antenna - Bluetooth	UE1	Internal to K73 Telematics Communication Interface Control Module	—	—
T8A	Ignition Coil 1	—	On the left rocker cover center at cylinder 1	*Upper Left Side of the Engine Components (LV1)*	• *T8A Ignition Coil 1 (L96/LC8)* • *T8A Ignition Coil 1 (LV1)*
T8B	Ignition Coil 2	—	On the right rocker cover center at cylinder 2	• *Right Front Side of the Engine Components (L96 or LC8)* • *Upper Right Side of the Engine Components (L96 or LC8)*	• *T8B Ignition Coil 2 (L96/LC8)* • *T8B Ignition Coil 2 (LV1)*
T8C	Ignition Coil 3	—	On the left rocker cover center at cylinder 3	*Upper Left Side of the Engine Components (LV1)*	• *T8C Ignition Coil 3 (L96/LC8)* • *T8C Ignition Coil 3 (LV1)*
T8D	Ignition Coil 4	—	On the right rocker cover center at cylinder 4	• *Right Front Side of the Engine Components (L96 or LC8)* • *Upper Right Side of the Engine Components (L96 or LC8)*	• *T8D Ignition Coil 4 (L96/LC8)* • *T8D Ignition Coil 4 (LV1)*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
T8E	Ignition Coil 5	—	On the left rocker cover center at cylinder 5	*Upper Left Side of the Engine Components (LV1)*	• *T8E Ignition Coil 5 (L96/LC8)* • *T8E Ignition Coil 5 (LV1)*
T8F	Ignition Coil 6	—	On the right rocker cover center at cylinder 6	• *Right Front Side of the Engine Components (L96 or LC8)* • *Upper Right Side of the Engine Components (L96 or LC8)*	• *T8F Ignition Coil 6 (L96/LC8)* • *T8F Ignition Coil 6 (LV1)*
T8G	Ignition Coil 7	L96, or LC8	On the left rocker cover rear at cylinder 7	—	*T8G Ignition Coil 7*
T8H	Ignition Coil 8	L96, or LC8	On the right rocker cover rear at cylinder 8	• *Right Front Side of the Engine Components (L96 or LC8)* • *Upper Right Side of the Engine Components (L96 or LC8)*	*T8H Ignition Coil 8*
T12	Automatic Transmission Assembly	—	Under the vehicle attached to the rear of the engine	—	*T12 Automatic Transmission Assembly*
W8	Blunt Cut - Trailer Provision	—	Behind the instrument panel, near the steering column	—	—
W12	Blunt Cut - Emergency Vehicle Provision	—	Near the instrument panel	—	—
W22	Blunt Cut - Rear Speaker Provision	—	Near the instrument panel	—	—
W25	Blunt Cut - Configurable Provision	—	Near the instrument panel	—	—
X50A	Fuse Block - Underhood	—	In the engine compartment, attached to the left front fender	• *Engine Compartment Components (1 of 2)* • *Engine Compartment Components (2 of 2)* • *Engine Harness Routing - Engine Compartment (LV1)*	*Electrical Center Identification Views on page 6-127*
X50B	Fuse Block - Underhood Auxiliary	—	In the engine compartment	—	*Electrical Center Identification Views on page 6-127*
X52A	Fuse Block - Passenger Compartment	—	Below the driver seat	*Body Harness Routing - Left Front of Passenger Compartment*	*Electrical Center Identification Views on page 6-127*
X53A	Fuse Block - Rear Body	PRP	Within the cargo area	—	*Electrical Center Identification Views on page 6-127*
X54D	Fuse Block - Fuel Heater	LWN	Within the engine compartment	—	*Electrical Center Identification Views on page 6-127*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X55AF	Fuse Holder - Engine Control Module	LWN	Within the engine compartment	—	*Electrical Center Identification Views on page 6-127*
X55AS	Fuse Holder - Rear Body Fuse Block	LWN	Within the engine compartment	—	*Electrical Center Identification Views on page 6-127*
X60A	Junction Block - Underhood	LWN or TP2	In the engine compartment, in-between M64 Starter Motor and X50A Fuse Block - Underhood	—	*Electrical Center Identification Views on page 6-127*
X80A	Accessory Power Receptacle - Center Console 1	Without DT4	In the center of the instrument panel	*Instrument Panel Components (1 of 2)*	*X80A Accessory Power Receptacle - Center Console 1 (-DT4)*
X80B	Accessory Power Receptacle - Center Console 2	—	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	—	• *X81 Accessory Power Receptacle - 110V AC X1* • *X81 Accessory Power Receptacle - 110V AC X2*
X84	Data Link Connector	—	Left lower side of the instrument panel, near the park brake pedal assembly	*Instrument Panel Components (1 of 2)*	*X84 Data Link Connector*
X85	Steering Wheel Air Bag Coil	—	Inside the upper steering column	—	• *X85 Steering Wheel Air Bag Coil X1* • *X85 Steering Wheel Air Bag Coil X2*
X87RB	Sliding Door Jamb Contact Plate - Right Body	AU3 and E24 or YA2	Attached to the right B-pillar	• *Right Side Hinged Door Components (E24)* • *Right Sliding Door Components (YA2)*	• *X87RB Sliding Door Jamb Contact Plate - Right Body (AU3)* • *X87RB Sliding Door Jamb Contact Plate - Right Body (CARGO)* • *X87RB Sliding Door Jamb Contact Plate - Right Body (CUTAWAY)* • *X87RB Sliding Door Jamb Contact Plate - Right Body (PASSENGER)*
X88	Trailer Connector	UY7	Below the rear bumper, near the center	—	• *X88 Trailer Connector (LWN)* • *X88 Trailer Connector (-LWN)* • *X88 Trailer Connector (NE7)* • *X88 Trailer Connector (-NE7)*
X92	USB Receptacle	USR	Slightly below and to the right of A11 Radio	—	*X92 USB Receptacle*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X100	Instrument Panel Harness to Engine Harness	—	Left rear of the engine compartment near the underhood fuse block and the horn	• *Engine Harness Routing - Engine Compartment* • *Engine Harness Routing - Engine Compartment (LV1)* • *Engine Harness Routing - Front (L96 or LC8)*	*X100 Instrument Panel Harness to Engine Harness*
X101	Engine Harness to Chassis Harness	LV1, L96, or LC8	Left rear of the engine compartment behind the underhood fuse block	• *Chassis Harness Routing (L96 or LC8)* • *Engine Harness Routing - Engine Compartment (LV1)* • *Engine Harness Routing - Front (L96 or LC8)*	*X101 Engine Harness to Chassis Harness*
X104	Instrument Panel Harness to Front Impact Sensor Jumper Harness	—	Instrument panel harness to the inflatable restraint front end sensor jumper harness, bottom left side of the radiator support	*Engine Harness Routing - Engine Compartment*	*X104 Instrument Panel Harness to Front Impact Sensor Jumper Harness*
X108	Positive Battery Cable Harness to Engine Harness	LWN	Battery cable harness to the engine harness, near the front of the engine compartment	—	*X108 Positive Battery Cable Harness to Engine Harness*
X109	Engine Harness to Underhood Lamp Harness	TR9	Engine harness to the underhood lamp jumper harness, left rear of the engine compartment	• *Engine Harness Routing - Engine Compartment (LV1)* • *Engine Harness Routing - Front (L96 or LC8)*	*X109 Engine Harness to Underhood Lamp Harness*
X111	Engine Harness to Glow Plug Jumper Harness	LWN	In the engine compartment, on the left side of the engine toward the top	—	*X111 Engine Harness to Glow Plug Jumper Harness*
X112	Engine Harness to Fuel Rail Jumper Harness	LWN	Fuel rail jumper harness to the engine harness, in the engine compartment, near the upper rear corner of the left valve cover	—	*X112 Engine Harness to Fuel Rail Jumper Harness*
X116	Engine Harness to Chassis Harness	LWN	In the engine compartment	—	*X116 Engine Harness to Chassis Harness*
X126	Engine Harness to Ignition Coil Harness	L96, or LC8	Engine harness to the left ignition coils jumper harness, top center of the left valve cover	• *Engine Harness Routing - Front (L96 or LC8)* • *Engine Harness Routing - Left Rear of Engine (L96 or LC8)*	*X126 Engine Harness to Ignition Coil Harness*
X127	Engine Harness to Ignition Coil Harness	L96, or LC8	Engine harness to the right ignition coils jumper harness, top center of the right valve cover	*Upper Right Side of the Engine Components (L96 or LC8)*	*X127 Engine Harness to Ignition Coil Harness*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X130	Engine Harness to Camshaft Position Sensor Jumper Harness	LV1	In the engine compartment, on the left rear side of engine block	• *Engine Harness Routing - Engine Compartment (LV1)* • *Engine Harness Routing - Front (LV1)*	*X130 Engine Harness to Camshaft Position Sensor Jumper Harness*
X135	Camshaft Position Sensor Jumper Harness to Oil Control Solenoid Valve Jumper Harness	LV1	In the engine compartment, on the left rear side of engine block	*Engine Harness Routing - Front (LV1)*	*X135 Camshaft Position Sensor Jumper Harness to Oil Control Solenoid Valve Jumper Harness*
X141	Instrument Panel Harness to Brake Fluid Level Jumper Harness	UJ1	Instrument panel harness to the brake fluid alarm switch jumper harness, left rear of the engine compartment near the cowl	• *Brake Booster Fluid Alarm Switches (UJ1)* • *Engine Harness Routing - Engine Compartment*	*X141 Instrument Panel Harness to Brake Fluid Level Jumper Harness*
X142	Engine Harness to Cooling Fan Jumper Harness	LWN	Engine chassis harness to the fan jumper harness, near the front of the engine	*Front of Engine Compartment Components (2 of 2)*	*X142 Engine Harness to Cooling Fan Jumper Harness*
X150	Instrument Panel Harness to Forward Lamp Harness	—	Instrument panel harness to the forward lamp harness, near the upper radiator hose at the radiator entry point	• *Engine Harness Routing - Engine Compartment* • *Forward Lamp Harness Routing*	*X150 Instrument Panel Harness to Forward Lamp Harness*
X160	Engine Harness to Fuel Injector Jumper Harness	LV1	In the engine compartment, rear of the engine near the top center	• *Engine Harness Routing - Engine Compartment (LV1)* • *Fuel Injector Harness Routing (LV1)*	*X160 Engine Harness to Fuel Injector Jumper Harness*
X161	Engine Harness to Fuel Injector Jumper Harness	LV1	In the engine compartment, rear of the engine near the top right	• *Engine Harness Routing - Engine Compartment (LV1)* • *Fuel Injector Harness Routing (LV1)*	*X161 Engine Harness to Fuel Injector Jumper Harness*
X175	Engine Harness to Transmission Jumper Harness	M5U	Engine harness to the transmission jumper harness	—	• *X175 Engine Harness to Transmission Jumper Harness (LV1)* • *X175 Engine Harness to Transmission Jumper Harness (LWN)*
X176	Transmission Case Harness to Transmission Control Harness	M5U	Internal to the transmission	—	*X176 Transmission Case Harness to Transmission Control Harness (M5U)*
X177	Engine Harness to Camshaft Position Sensor Jumper Harness	L96, or LC8	Engine harness to the camshaft harness, left front of the engine near the crank pulley	*Engine Harness Routing - Front (L96 or LC8)*	*X177 Engine Harness to Camshaft Position Sensor Jumper Harness*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X178	Transmission Case Harness to Speed Sensor Assembly Harness	M5U	Transmission harness to the transmission speed sensor harness	—	*X178 Transmission Case Harness to Speed Sensor Assembly Harness (M5U)*
X185	Instrument Panel Harness to Chassis Harness	—	In the engine compartment, near the X50A fuse block - underhood	—	*X185 Instrument Panel Harness to Chassis Harness*
X190	Accessory Harness to Accessory Power Fuse Block Rear Extension Harness	—	In the engine compartment	—	*X190 Accessory Harness to Accessory Power Fuse Block Rear Extension Harness*
X200	Steering Column Harness to Instrument Panel Harness	—	Steering column harness to the instrument panel harness, at the base of the steering column	• *Instrument Panel Harness Routing - Dash Area (1 of 2)* • *Steering Column Harness Routing*	*X200 Steering Column Harness to Instrument Panel Harness*
X202	Instrument Panel Harness to Engine Harness	—	Instrument panel harness to engine harness, about 8.8 inches (225 mm) from I/P underhood break out after pass through grommet	• *Engine Harness Routing - Engine Compartment (LV1)* • *Engine Harness Routing - Front (L96 or LC8)*	*X202 Instrument Panel Harness to Engine Harness*
X204	Body Harness to Headliner Harness	—	Body harness to headliner harness,	• *Body Harness Routing - Right Front of Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Front of Passenger Compartment (2 of 2)*	*X204 Body Harness to Headliner Harness*
X205	Front Headliner Harness to Body Harness	—	Front headliner harness to the body harness, behind the A-pillar	• *Body Harness Routing - Right Front of Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Front of Passenger Compartment (2 of 2)* • *Body Harness Routing - Roof Area*	*X205 Front Headliner Harness to Body Harness*
X206	Instrument Panel Harness to Instrument Panel Harness	—	Instrument Panel Harness to Instrument Panel Harness, left side of the instrument panel near the headlamp switch	—	*X206 Instrument Panel Harness to Instrument Panel Harness*
X220	Instrument Panel Harness to Park Brake Jumper Harness	—	Instrument panel harness to the parking brake jumper harness, left side of the instrument panel, center of the parking brake pedal assembly	—	*X220 Instrument Panel Harness to Park Brake Jumper Harness*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X222	Upfitter Provision Harness to Instrument Panel Harness	YF2 or YF7	Upfitter harness to the instrument panel harness, left side of the instrument panel near the parking brake lever assembly	*Instrument Panel Harness Routing - Dash Area (1 of 2)*	*X222 Upfitter Provision Harness to Instrument Panel Harness*
X225	Accelerator Pedal Position Sensor Harness to Instrument Panel Harness	—	Accelerator Pedal Position (APP) Jumper Harness to Instrument Panel Harness, located between Accelerator Pedal Position (APP) sensor and Instrument Panel Harness	—	*X225 Accelerator Pedal Position Sensor Harness to Instrument Panel Harness*
X276	Steering Wheel Harness to Instrument Panel Harness	—	Steering wheel harness to the instrument panel harness, in the back of the left instrument panel knee bolster above X200	*Instrument Panel Harness Routing - Dash Area (1 of 2)*	*X276 Steering Wheel Harness to Instrument Panel Harness*
X289	Rear Body Harness to Instrument Panel Harness	PRP	Inside the vehicle, towards the left front	—	*X289 Rear Body Harness to Instrument Panel Harness*
X290	Instrument Panel Harness to Rear Body Harness	PRP	Inside the vehicle, towards the left front	—	*X290 Instrument Panel Harness to Rear Body Harness*
X291	Accessory Power Fuse Block Rear Extension Harness to Accessory Power Fuse Block Rear Extension Harness	—	In the engine compartment	—	*X291 Accessory Power Fuse Block Rear Extension Harness to Accessory Power Fuse Block Rear Extension Harness*
X306	Body Harness to Passenger Seat Harness	—	Body harness to the front passenger seat harness, right side of the passenger compartment below the passenger seat	• *Body Harness Routing - Right Front of Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Front of Passenger Compartment (2 of 2)* • *Driver Seat Harness Routing and Front Passenger Seat Harness Routing* • *Passenger Seat Components*	*X306 Body Harness to Passenger Seat Harness*
X307	Body Harness to Driver Seat Harness	—	Body harness to the driver seat harness, left side of the passenger compartment below the driver seat	• *Body Harness Routing - Left Front of Passenger Compartment* • *Driver Seat Components* • *Driver Seat Harness Routing and Front Passenger Seat Harness Routing*	*X307 Body Harness to Driver Seat Harness*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X318	Instrument Panel Harness to Body Harness	—	Instrument panel harness to the body harness, behind the left kick panel	• *Body Harness Routing - Left Front of Passenger Compartment* • *Instrument Panel Harness Routing - Dash Area (1 of 2)*	*X318 Instrument Panel Harness to Body Harness*
X319	Auxiliary Heater Front Harness to Body Harness	ENC, C69, or C36	Rear heater switch harness to the body harness, behind the left kick panel	*Body Harness Routing - Left Front of Passenger Compartment*	*X319 Auxiliary Heater Front Harness to Body Harness*
X320	Upfitter Provision Harness to Body Harness	YF2 or YF7	Upfitter harness to the body harness, left side of the passenger compartment lower left C-pillar	—	*X320 Upfitter Provision Harness to Body Harness*
X321	Upfitter Provision Harness to Body Harness	YF2 or YF7	Upfitter harness to the body harness, left side of the passenger compartment center of the left C-pillar	—	*X321 Upfitter Provision Harness to Body Harness*
X323	Air Bag Jumper Harness to Body Harness	ASF	At the base of the left C-pillar	*Body Harness Routing - Left Front of Passenger Compartment*	*X323 Air Bag Jumper Harness to Body Harness*
X324	Air Bag Jumper Harness to Body Harness	ASF	At the base of the right C-pillar	*Body Harness Routing - Right C-Pillar*	*X324 Air Bag Jumper Harness to Body Harness*
X328	Body Harness to Upfitter Jumper Harness	WRF	Near the instrument panel	—	*X328 Body Harness to Upfitter Jumper Harness*
X329	Instrument Panel Harness to Body Harness	UVC	Instrument panel harness to the body harness, in the passenger compartment under the driver seat	*Body Harness Routing - Left Front of Passenger Compartment*	*X329 Instrument Panel Harness to Body Harness*
X330	Instrument Panel Harness to Body Harness	—	Instrument panel harness to the body harness, under the driver seat	• *Body Harness Routing - Left Front of Passenger Compartment* • *Instrument Panel Harness Routing - Dash Area (1 of 2)*	*X330 Body Harness to Body Harness*
X331	Instrument Panel Harness to Body Harness	—	Instrument panel harness to the body harness, under the driver seat	• *Body Harness Routing - Left Front of Passenger Compartment* • *Instrument Panel Harness Routing - Dash Area (1 of 2)*	*X331 Instrument Panel Harness to Body Harness*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X400	Rear Cargo Door Harness to Body Harness	Passenger or Cargo	Right cargo door harness to the body harness, right rear of the passenger compartment center of the right D-pillar	• *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)* • *Rear Cargo Doors Harness Routing (Passenger or Cargo)*	*X400 Rear Cargo Door Harness to Body Harness*
X403	Rear Cargo Door Harness to Body Harness	UVC	Rear cargo door harness to body harness,	• *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	• *X403 Body Harness to Body Harness (CARGO)* • *X403 Body Harness to Body Harness (PASSENGER)* • *X403 Rearview Camera Harness to Body Harness (5BV)* • *X403 Rearview Camera Harness to Body Harness (-5BV)*
X405	Cutaway Rear Lighting Connector to Chassis Harness	Cutaway	Cutaway rear lighting connector to the chassis harness, left rear frame rail	*Chassis Harness Routing (L96 or LC8)*	*X405 Cutaway Rear Lighting Connector to Chassis Harness*
X407	Auxiliary HVAC Harness to Body Harness	C36 or C69	Rear HVAC harness to the body harness, left rear of the passenger compartment upper back side of the auxiliary HVAC module at the D-pillar	• *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)*	*X407 Auxiliary HVAC Harness to Body Harness*
X408	Rear Bumper Harness to Chassis Harness	UD7 or UFT	Rear bumper harness to chassis harness,	*Rear Bumper Harness Routing*	*X408 Rear Bumper Harness to Chassis Harness*
X409	Auxiliary HVAC Harness to Body Harness	C36 or C69	Rear HVAC harness to body harness, left rear of the passenger compartment upper back side of the auxiliary HVAC module	*Body Harness Routing - Left Rear (Passenger or Cargo)*	*X409 Auxiliary HVAC Harness to Body Harness*
X410	Left Rear Lamp Harness to Body Harness	Passenger or Cargo	Left Tail Lamp Assembly Harness to Body Harness, left rear of the passenger compartment at the D-pillar	• *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)*	*X410 Left Rear Lamp Harness to Body Harness*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X411	Left Rear Cargo Door Harness to Body Harness	Passenger or Cargo	Left cargo door harness to the body harness, left rear of the passenger compartment center of the left D-pillar	• *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Rear Cargo Doors Harness Routing (Passenger or Cargo)*	*X411 Left Rear Cargo Door Harness to Body Harness*
X412	Rear Cargo Door Harness to Body Harness	Passenger or Cargo	Right cargo door harness to the body harness, right rear of the passenger compartment center of the right D-pillar	• *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)* • *Rear Cargo Doors Harness Routing (Passenger or Cargo)*	*X412 Rear Cargo Door Harness to Body Harness*
X415	Rear Speaker Harness to Body Harness	Passenger or Cargo	Rear overhead speakers jumper harness to the body harness, rear of the passenger compartment center of the rear roof rail	• *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	*X415 Rear Speaker Harness to Body Harness*
X419	Center High Mounted Stop Lamp Harness to Body Harness	Passenger or Cargo	CHMSL harness to the body harness, rear of the passenger compartment center of the rear roof rail	• *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)*	*X419 Center High Mounted Stop Lamp Harness to Body Harness*
X420	Right Rear Lamp Harness to Body Harness	Passenger or Cargo	Right Tail Lamp Assembly Harness to Body Harness, right rear of the passenger compartment at the D-pillar	• *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)* • *Body Harness Routing - Roof Area*	*X420 Right Rear Lamp Harness to Body Harness*

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
X421	Body Harness to Headliner Harness	—	Body harness to rear headliner harness	• *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Roof Area*	*X421 Body Harness to Headliner Harness*
X460	Chassis Harness to Trailer Provision Harness	Cutaway with UY7 and NE7	Trailer Provision to Chassis Harness, in rear near Trailer Harness	—	*X460 Chassis Harness to Trailer Provision Harness*
X500	Driver Door Harness to Body Harness	—	Driver door harness to the body harness, behind the left kick panel	*Body Harness Routing - Left Front of Passenger Compartment*	*X500 Driver Door Harness to Body Harness*
X501	Air Bag Jumper Harness to Driver Door Harness	ASF	Driver side impact sensor harness to the driver door harness, in the driver door behind the trim panel	—	*X501 Air Bag Jumper Harness to Driver Door Harness*
X600	Passenger Door Harness to Body Harness	—	Passenger door harness to the body harness, behind the right kick panel	• *Body Harness Routing - Right Front of Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Front of Passenger Compartment (2 of 2)*	*X600 Passenger Door Harness to Body Harness*
X601	Air Bag Jumper Harness to Passenger Door Harness	ASF	Passenger side impact sensor harness to the passenger door harness, in the passenger door behind the trim panel	—	*X601 Air Bag Jumper Harness to Passenger Door Harness*
X901	Defogger Jumper Harness to Left Rear Cargo Door Harness	C49	Rear window defogger jumper harness to the left cargo door harness, in the left cargo door	*Rear Cargo Doors Harness Routing (Passenger or Cargo)*	*X901 Defogger Jumper Harness to Left Rear Cargo Door Harness*
X902	Defogger Jumper Harness to Right Rear Cargo Door Harness	C49	Rear window defogger jumper harness to the right cargo door harness, in the right cargo door	*Rear Cargo Doors Harness Routing (Passenger or Cargo)*	*X902 Defogger Jumper Harness to Right Rear Cargo Door Harness*
G100	Forward Lamp Harness	—	Left front of the engine compartment, attached to the front of the left fender	*G100 and G101*	—
G101	Forward Lamp Harness	—	Right front of the engine compartment, attached near the front of the right fender	*G100 and G101*	—
G102	Engine Harness	—	Rear of the engine compartment, left rear of the engine on the left cylinder head	*G102 and G103 (L96 or LC8)*	—
G103	Engine Harness	—	Rear of the engine compartment, left rear of the engine on the left cylinder head	*G102 and G103 (L96 or LC8)*	—
G104	Negative Battery Cable	—	Mounted on the engine, extending towards the battery	—	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
G105	Negative Battery Cable	—	Front of the engine compartment, right front of the inner frame rail	—	—
G106	Negative Battery Cable	—	Front of the engine compartment, right front fender	—	—
G107	Engine Harness	LV1	Rear of the engine compartment, left rear of the engine on the left cylinder head	*G107 and G108 (LV1)*	—
G108	Engine Harness	LV1	Rear of the engine compartment, towards top of the engine	*G107 and G108 (LV1)*	—
G300	Chassis Harness	—	Left side outer frame, near the EBCM	• *Chassis Harness Routing (L96 or LC8)* • *G300, G400, G404 and G405*	—
G301	Instrument Panel	—	Left front of the passenger compartment, behind the kick panel next to G302	—	—
G302	Instrument Panel	—	Left front of the passenger compartment, behind the kick panel next to G301	*G302 and G347*	—
G304	Instrument Panel	—	Right front of the passenger compartment, behind the kick panel	*G304*	—
G305	Auxiliary Battery Negative Cable	TP2 or LWN	Left center outer frame rail, near the auxiliary battery	• *Frame and Underbody Components (2 of 2)* • *G305*	—
G347	Body Harness	—	Left side of the passenger compartment, lower left B-pillar part of JX347	*G302 and G347*	—
G348	Body Harness	—	Right side of the passenger compartment, lower right B-pillar part of JX348	—	—
G400	Chassis Harness	LWN	Left rear inner side frame rail	*G300, G400, G404 and G405*	—
G401	Body Harness	Passenger or Cargo	Right rear of the passenger compartment, upper right D-pillar	*G401 and G402 (Passenger or Cargo)*	—
G402	Body Harness	Passenger or Cargo	Left rear of the passenger compartment, center left D-pillar	*G401 and G402 (Passenger or Cargo)*	—
G403	Side Access Panel Harness	PRP	Left rear of the passenger compartment, center left D-pillar	—	—
G404	Chassis Harness	—	In vehicle underbody, near center, on left frame rail	*G300, G400, G404 and G405*	—
G405	Chassis Harness	LWN	In vehicle underbody, near center, on left frame rail	*G300, G400, G404 and G405*	—
J100	Forward Lamp Harness	—	At the left front of the engine compartment, just behind the left front headlamp assembly	—	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J101	Engine Harness	—	In the engine harness, on the right side of the engine, approximately 5 cm (2 in) from the MAP sensor breakout	• *Engine Harness Routing - Engine Compartment (LV1)* • *Engine Harness Routing - Left Rear of Engine (L96 or LC8)*	—
J102	Engine Harness	—	In the engine harness, on the right side of the engine, approximately 6 cm (2 in) from the MAP sensor breakout	• *Engine Harness Routing - Engine Compartment (LV1)* • *Engine Harness Routing - Left Rear of Engine (L96 or LC8)*	—
J105	Fuse Block Jumper Harness	9L7	In the fuse block jumper harness, between KR81 Auxiliary Battery Relay 1 and X50B Fuse Block – Underhood Auxiliary	—	—
J106	Fuse Block Jumper Harness	9L7	In the fuse block jumper harness	—	—
J110	Forward Lamp Harness	—	In the forward lamp harness, Left front of the vehicle, approximately 12 cm (5 in) from the left headlamp connector breakout	*Forward Lamp Harness Routing*	—
J115	Engine Harness	—	In the engine harness, in the right front of the engine compartment, approximately 15 cm (6 in) from the X101 breakout	• *Engine Harness Routing - Engine Compartment (LV1)* • *Engine Harness Routing - Front (L96 or LC8)*	—
J117	Engine Harness	M5U	In the engine harness, approximately 6 cm (2.4 in) from the exhaust temperature sensor 1 breakout	—	—
J118	Engine Harness	M5U	In the engine harness, approximately 7 cm (2.75 in) from the reductant injector breakout	—	—
J119	Chassis Harness	K08	In the chassis harness, near the left front inner frame rail, approximately 15 cm (6 in) from the coolant heater breakout	—	—
J121	Forward Lamp Harness	—	In the forward lamp harness, near the front center of the vehicle, approximately 48 cm (19 in) from the left headlamp breakout	*Forward Lamp Harness Routing*	—
J122	Forward Lamp Harness	—	In the forward lamp harness, near the left front of the vehicle, approximately 12 cm (5 in) from the underhood fuse block X4 breakout	*Forward Lamp Harness Routing*	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J123	Engine Harness	L96, or LC8	In the engine harness, near the left front side of the vehicle, approximately 16 cm (6 in) from the under-hood fuse block X1 breakout	*Engine Harness Routing - Front (L96 or LC8)*	—
J125	Engine Harness	LWN	In the engine harness, approximately 24.5 cm (9.6 in) from the cooling fan resistor breakout	—	—
J126	Engine Harness	LWN	In the engine harness, approximately 25.5 cm (10 in) from the horn assembly breakout	—	—
J127	Engine Harness	LWN	In the engine harness, approximately 12.0 cm (4.7 in) from the brake fluid level switch breakout	—	—
J128	Engine Harness	LWN	In the engine harness, approximately 14.5 cm (5.7 in) from the fuse block – fuel heater breakout	—	—
J135	Engine Harness	LWN	In the engine harness, approximately 24.5 cm (9.6 in) from the fuse block – fuel heater breakout	—	—
J143	Engine Harness	LV1, L96, or LC8	Adjacent to B52C Heated Oxygen Sensor - Bank 1 Sensor 1 and B52E Heated Oxygen Sensor - Bank 2 Sensor 1	*Engine Harness Routing - Engine Compartment (LV1)*	—
J144	Engine Harness	LV1, L96, or LC8	Adjacent to B52D Heated Oxygen Sensor - Bank 1 Sensor 2 and B52F Heated Oxygen Sensor - Bank 2 Sensor 2	*Engine Harness Routing - Engine Compartment (LV1)*	—
J170	Engine Harness	LV1	In the engine harness, approximately 24.5 cm (9.6 in) from ignition coil 5	*Engine Harness Routing - Engine Compartment (LV1)*	—
J171	Engine Harness	LV1	In the engine harness, approximately 26 cm (10.2 in) from ignition coil 6	*Engine Harness Routing - Engine Compartment (LV1)*	—
J175	Transmission Internal Harness	M5U	Within the automatic transmission assembly	—	—
J176	Transmission Internal Harness	M5U	Within the automatic transmission assembly	—	—
J177	Transmission Internal Harness	M5U	Within the automatic transmission assembly	—	—
J181	Ignition Coil Jumper Harness	L96, or LC8	In the ignition coil jumper harness for bank 1, approximately 5 cm (2.0 in) from the X126 breakout	—	—
J182	Left Ignition Coil Harness	LV1, L96, or LC8	In the odd ignition/coil module jumper harness, top left of the engine	*Engine Harness Routing - Engine Compartment (LV1)*	—
J183	Right Ignition Coil Harness	L96, or LC8	In the even ignition/coil module jumper harness, top right of the engine	—	—
J184	Left Ignition Coil Harness	LV1, L96, or LC8	In the odd ignition/coil module jumper harness, top left of the engine	*Engine Harness Routing - Engine Compartment (LV1)*	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J185	Right Ignition Coil Harness	LV1, L96, or LC8	In the even ignition/coil module jumper harness, top right of the engine	*Engine Harness Routing - Engine Compartment (LV1)*	—
J188	Right Ignition Coil Harness	LV1, L96, or LC8	In the even ignition/coil module jumper harness, top right of the engine	*Engine Harness Routing - Engine Compartment (LV1)*	—
J201	Instrument Panel	UFL	In the instrument panel harness, approximately 2 cm (0.79 in) from the park brake switch breakout	—	—
J202	Steering Column Harness	—	In the steering column harness, approximately 25 cm (9 in) from the X200 connector	—	—
J203	Steering Column Harness	—	In the steering column harness, approximately 27 cm (10.5 in) from the X200 connector	—	—
J205	Steering Column Harness	—	In the steering column harness, approximately 30 cm (12 in) from the X200 connector	—	—
J207	Instrument Panel	—	In the instrument panel harness, center of the instrument panel, approximately 70 cm (27 in) from the radio and HVAC control assembly breakout	*Instrument Panel Harness Routing - Dash Area (2 of 2)*	—
J208	Steering Wheel Harness	K34 with W1Y	In the steering wheel harness, near the X200 connector	—	—
J209	Steering Wheel Harness	K34 with W1Y	In the steering wheel harness, near the X200 connector	—	—
J210	Steering Wheel Harness	K34 or W1Y	In the steering wheel harness, near the X200 connector	—	—
J211	Instrument Panel	UD7 or UFT	In the engine compartment, approximately 30 cm (11.8 in) from the windshield washer pump	—	—
J223	Instrument Panel	UVC	Adjacent to K9 Body Control Module	—	—
J241	Instrument Panel	—	In the instrument panel harness, center of the instrument panel, approximately 13.5 cm (5.3 in) from the parking assist control module breakout	—	—
J244	Instrument Panel	—	In the instrument panel harness, left side of the instrument panel, approximately 12 cm (5 in) from the X200 breakout towards the instrument panel cluster connector	*Instrument Panel Harness Routing - Dash Area (2 of 2)*	—
J245	Instrument Panel	DEB or DE5	In the instrument panel harness, center of the instrument panel, approximately 30 cm (12 in) from the radio and HVAC control assembly breakout	*Instrument Panel Harness Routing - Dash Area (2 of 2)*	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J246	Instrument Panel	DEB or DE5	In the instrument panel harness, center of the instrument panel, approximately 43.5 cm (17 in) from the radio and HVAC control assembly breakout	*Instrument Panel Harness Routing - Dash Area (2 of 2)*	—
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 - Dash Area (2 of 2)*	—
J248	Instrument Panel	—	In the instrument panel harness, left side of the instrument panel, approximately 8 cm (3.14 in) from the C200 breakout towards the instrument panel cluster connector	*Instrument Panel Harness Routing - Dash Area (2 of 2)*	—
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 - Dash Area (2 of 2)*	—
J250	Instrument Panel	—	In the instrument panel harness, right side of the instrument panel, approximately 5 cm (2.16 in) from the air temperature actuator connector breakout towards the inflatable restraint instrument panel module connector	*Instrument Panel Harness Routing - Dash Area (2 of 2)*	—
J263	Instrument Panel	TP2	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	—	—
J264	Steering Column Harness	—	In the steering wheel harness, approximately 20 cm (8 in) from the X200 connector	—	—
J270	Instrument Panel	U2K or UBS	In the instrument panel harness, approximately 15 cm (6 in) from the digital radio receiver and cigar lighter connectors breakout	—	—
J271	Instrument Panel	U2K, UBS, or UE1	In the instrument panel harness, approximately 7.5 cm (3 in) from the vehicle communication interface module and cigar lighter connectors breakout	—	—
J280	Instrument Panel	Cutaway without YF7	In the instrument panel harness, approximately 20 cm (7.9 in) from the body fuse block and air bag module connectors breakout	—	—
J300	Side Access Panel Harness	PRP	Slightly forward of X53A Fuse Block - Rear Body	—	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J301	Chassis Harness	LV1, L96, or LC8	In the chassis harness, left side frame, approximately 21 cm (8 in) from the fuel pump connector breakout	*Chassis Harness Routing (L96 or LC8)*	—
J302	Instrument Panel	PRP	Adjacent to K9 Body Control Module	—	—
J307	Front Headliner Harness	C69 with YF7	In the front headliner harness, center of the headliner, approximately 15 cm (6 in) from the X205 breakout towards the left vanity mirror lamp connector	—	—
J308	Body Harness	C69	In the body harness, left side of the passenger compartment, approximately 22 cm (9 in) from the breakout for the door jamb switch LR side	• *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Rear Overview (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—
J309	Side Access Panel Harness	PRP	Adjacent to X53A Fuse Block - Rear Body	—	—
J310	Body Harness	C69	In the body 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 Rear (Passenger or Cargo)* • *Body Harness Routing - Rear Overview (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J311	Body Harness	C69	In the body harness, left side of the passenger compartment, approximately 5 cm (2 in) from the door jamb switch LR side breakout	• *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Rear Overview (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—
J312	Body Harness	WRF	In the body harness, approximately 37.5 cm (14.8 in) from the X307 breakout	• *Body Harness Routing - Left Front of Passenger Compartment* • *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Right Front of Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—
J313	Body Harness	WRF	In the body harness, approximately 28 cm (11 in) from the X307 breakout	• *Body Harness Routing - Left Front of Passenger Compartment* • *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Right Front of Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—
J314	Front Headliner Harness	—	In the front headliner harness, center of the headliner, approximately 22 cm (8.5 in) from the X205 breakout towards the left vanity mirror lamp connector	—	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J315	Chassis Harness	—	In the chassis harness, left side frame, approximately 31 cm (12 in) from the G300 breakout	*Chassis Harness Routing (L96 or LC8)*	—
J316	Body Harness	WRF	In the body harness, approximately 9 cm (3.5 in) from the X307 breakout	• *Body Harness Routing - Left Front of Passenger Compartment* • *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Right Front of Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—
J317	Body Harness	WRF	In the body harness, approximately 16 cm (6.3 in) from the X307 breakout	*Body Harness Routing - Left Rear (Passenger or Cargo)*	—
J318	Body Harness	WRF	In the body harness, approximately 26 cm (10.2 in) from the X307 breakout	*Body Harness Routing - Left Rear (Passenger or Cargo)*	—
J322	Body Harness	Cargo or Passenger with AU3	In the body harness, near the front passenger seat, approximately 40 cm (16 in) from the X306 breakout	—	—
J323	Body Harness	Cargo or Passenger with AU3	In the body harness, near the front passenger seat, approximately 20 cm (8 in) from the X306 breakout	—	—
J330	Rear Headliner Harness	Passenger	In the rear headliner harness, center of the headliner, approximately 30 cm (12 in) to the courtesy reading lamp rear breakout	—	—
J331	Body Harness	Passenger	In the body harness, near the front passenger seat, approximately 15 cm (6 in) from the X306 breakout	*Body Harness Routing - Rear Overview (Passenger or Cargo)*	—
J332	Front Headliner Harness	DH6 with YF7	In the front headliner harness, center of the headliner, approximately 11 cm (4 in) from the front right sunshade breakout	—	—
J333	Front Headliner Harness	DH6 without YF7	In the front headliner harness, center of the headliner, approximately 20 cm (8 in) from the right sunshade breakout	—	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J334	Body Harness	UVC	Approximately 5 inches rearward of X53A Fuse Block - Rear Body	• *Body Harness Routing - Left Front of Passenger Compartment* • *Body Harness Routing - Right Front of Passenger Compartment (1 of 2)*	—
J335	Body Harness	U80	In the body harness, approximately 12 cm (4.7 in) from the Multi-axis acceleration sensor module breakout	*Body Harness Routing - Right Front of Passenger Compartment (2 of 2)*	—
J348	Side Access Panel Harness	PRP	In the cargo area, in-between the headliner and the roof, in-between the left side access panel and the right side access panel	—	—
J350	Side Access Panel Harness	PRP with UF2	In the cargo area, in-between the headliner and the roof, in-between the left side access panel and the right side access panel	—	—
J355	Front Headliner Harness	C69 with YF7	In the front headliner harness, center of the headliner, approximately 61 cm (24 in) from the X205 breakout towards the left vanity mirror lamp connector	—	—
J356	Body Harness	—	In the body harness, on the left front side of the vehicle, approximately 20 cm (7.87 in) from the underhood fuse block breakout	• *Body Harness Routing - Left Front of Passenger Compartment* • *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Rear Overview (Passenger or Cargo)* • *Body Harness Routing - Right Front of Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—
J373	Body Harness	Passenger	At the base of the right C-pillar	*Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J374	Body Harness	Cargo without YF7	In the body harness, approximately 20 cm (7.9 in) from the dome lamp – left roof rail breakout	—	—
J375	Body Harness	Cargo without YF7	In the body harness, approximately 20 cm (7.9 in) from the dome lamp – right roof rail breakout	*Body Harness Routing - Right Front of Passenger Compartment (2 of 2)*	—
J376	Body Harness	Cargo or Passenger	In the body harness, approximately 72.5 cm (28.5 in) from the X410 breakout	• *Body Harness Routing - Right Front of Passenger Compartment (2 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—
J377	Side Access Panel Harness	PRP	Adjacent to X53A	—	—
J378	Side Access Panel Harness	PRP	Adjacent to X53A	—	—
J387	Chassis Harness	Cutaway	In the chassis harness, approximately 6 cm (2.36 in) from the trailer connector breakout	—	—
J388	Chassis Harness	Cutaway	In the chassis harness, approximately 10 cm (3.94 in) from the trailer connector breakout	—	—
J401	Body Harness	C36, C49, or C69	In the body harness, in the left rear of the vehicle, approximately 21 cm (8 in) from the X401 breakout	• *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Rear Overview (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)*	—
J402	Chassis Harness	—	In the chassis harness, left frame, approximately 20 cm (7.87 in) from the G400 breakout towards the EBCM connector	*Chassis Harness Routing (L96 or LC8)*	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J403	Body Harness	Cargo or Passenger	In the body harness, left rear of the passenger compartment, approximately 18.5 cm (7 in) from the X402 breakout	• *Body Harness Routing - Rear Overview (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—
J404	Chassis Harness	—	In the chassis harness, left frame, approximately 10 cm (4 in) from the G400 breakout towards the EBCM connector	—	—
J405	Rear HVAC Harness	C36 or C69	In the rear HVAC harness, left rear of the passenger compartment, approximately 13 cm (5.31 in) from the auxiliary blower motor relay breakout towards X409	—	—
J406	Chassis Harness	LWN	Within the chassis harness	—	—
J407	Rear Headliner Harness	Passenger	In the rear headliner harness, center of the headliner, approximately 6.5 cm (2.5 in) from X304 towards the rear courtesy/ reading lamp connector	—	—
J408	Side Access Panel Harness	PRP	In the Left Side Access Panel compartment	—	—
J409	Side Access Panel Harness	PRP	In the Right Side Access Panel compartment	—	—
J410	Body Harness	Cargo or Passenger	In the body harness, in the left rear of the vehicle, approximately 47 cm (18 in) from the X401 breakout	• *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Rear Overview (Passenger or Cargo)* • *Body Harness Routing - Right Front of Passenger Compartment (2 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J411	Rear HVAC Harness	C69	In the rear HVAC harness, left rear of the passenger compartment, approximately 20 cm (8 in) from the blower motor relay breakout, towards X409	—	—
J412	Rear HVAC Harness	C36 or C69	In the rear HVAC harness, left rear of the passenger compartment, approximately 7 cm (2.8 in) from the blower motor relay breakout towards X409	—	—
J413	Rear HVAC Harness	C36 or C69	In the rear HVAC harness, left rear of the passenger compartment, approximately 10 cm (4 in) from the auxiliary blower motor resistor assembly breakout	—	—
J420	Rear Bumper Harness	UD7	In the rear bumper harness, approximately 57 cm (22 in) from the right rear middle object alarm sensor towards the left rear corner object alarm sensor	—	—
J421	Rear Bumper Harness	UD7	In the rear bumper harness, approximately 15 cm (6 in) from the left rear corner object alarm sensor towards the right rear middle object alarm sensor	—	—
J422	Chassis Harness	LWN	In the chassis harness, approximately 11.5 cm (4.5 in) from the wheel speed sensor - left front breakout	—	—
J425	Parking Aid Jumper Harness	UFT	At the rear of the vehicle	*Rear Bumper Harness Routing*	—
J426	Parking Aid Jumper Harness	UFT	At the rear of the vehicle	*Rear Bumper Harness Routing*	—
J450	Body Harness	YF2 or YF7	In the body harness, in the rear of the vehicle, approximately 10 cm (3.93 in) from the X415 breakout	• *Body Harness Routing - Rear Overview (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—

cardiagn.com

Master Electrical Component List (cont'd)

Code	Name	Option	Location	Locator View	Connector End View
J451	Body Harness	YF2 or YF7	In the body harness, in the rear of the vehicle, approximately 17 cm (6.5 in) from the X415 breakout	• *Body Harness Routing - Rear Overview (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—
J452	Body Harness	YF2 or YF7	In the body harness, approximately 17 cm (6.5 in) from the X419 breakout	• *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Rear Overview (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—
J453	Body Harness	YF2 or YF7	In the body harness, in the left rear of the vehicle, approximately 10 cm (4 in) from the X419 breakout	• *Body Harness Routing - Left Rear (Passenger or Cargo)* • *Body Harness Routing - Rear Overview (Passenger or Cargo)* • *Body Harness Routing - Right Rear Passenger Compartment (1 of 2)* • *Body Harness Routing - Right Rear Passenger Compartment (2 of 2)*	—
J500	Driver Door Harness	AU3, DEB, DE5, or A31	In the left front door harness, driver door, approximately 7 cm (3 in) from the left front door speaker breakout	—	—
J501	Driver Door Harness	AU3	In the left front door harness, driver door, approximately 6 cm (2.36 in) from the driver outside rearview mirror breakout	—	—

cardiagn.com

Master Electrical Component List (cont'd)

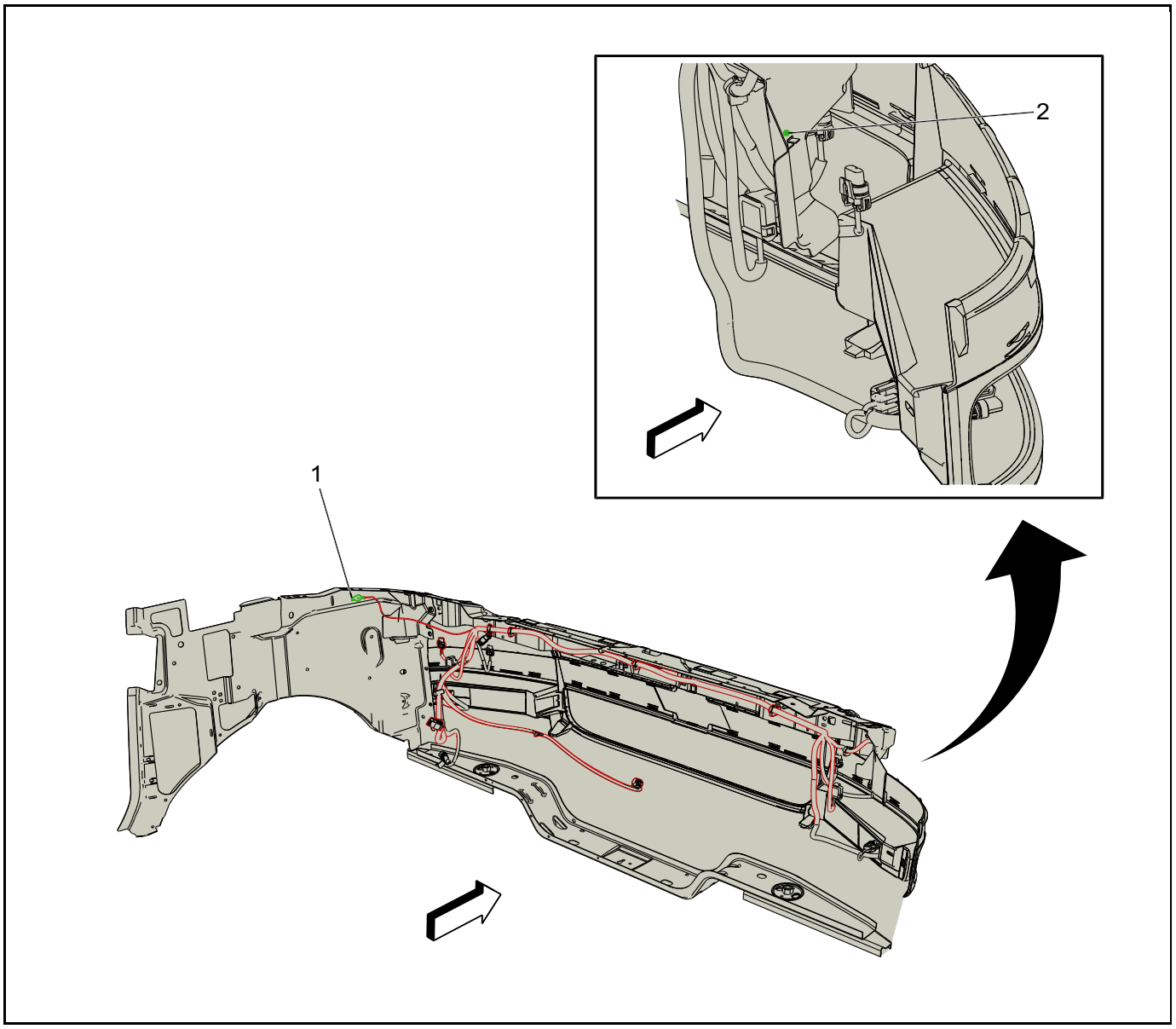
Code	Name	Option	Location	Locator View	Connector End View
J502	Driver Door Harness	DEB or DE5	In the left front door harness, driver door, approximately 4 cm (2 in) from the left front door speaker breakout	—	—
J600	Passenger Door Harness	AU3, DEB, DE5, or A31	In the right front door harness, front passenger door, approximately 4 cm (2 in) from the passenger outside rearview mirror breakout	—	—
J601	Passenger Door Harness	AU3	In the right front door harness, front passenger door, approximately 5 cm (2 in) from the passenger outside rearview mirror breakout	—	—
J901	Right Rear Cargo Door Harness	Cargo or Passenger with AU3	In the rear cargo door harness, approximately 4 cm (1.5 in) from the X902 breakout	—	—
J902	Right Rear Cargo Door Harness	Cargo or Passenger with C49	In the right rear door harness, right rear cargo door, approximately 12 cm (4.7 in) from the X902 breakout	*Rear Cargo Doors Harness Routing (Passenger or Cargo)*	—
JX200	Instrument Panel Harness	—	In the instrument panel harness, left front side of the floor, where the carpet ends behind the brake pedal next to JX250	*Instrument Panel Harness Routing - Dash Area (1 of 2)*	*JX200 Splice Pack*
JX250	Instrument Panel Harness	—	In the instrument panel harness, left front side of the floor, where the carpet ends behind the brake pedal next to JX200	*Instrument Panel Harness Routing - Dash Area (1 of 2)*	*JX250 Splice Pack*
JX347	Body Harness	—	In the body harness, left side of the passenger compartment, attached to the lower left B-pillar part of G347	• *Body Harness Routing - Left Front of Passenger Compartment* • *Body Harness Routing - Right Front of Passenger Compartment (2 of 2)*	*JX347 Splice Pack*
JX348	Body Harness	—	In the body harness, right side of the passenger compartment, attached to the lower right B-pillar part of G348	*Body Harness Routing - Right Front of Passenger Compartment (1 of 2)*	*JX348 Splice Pack*

cardiagn.com

Wiring Systems and Power Management

Ground Views

G100 and G101



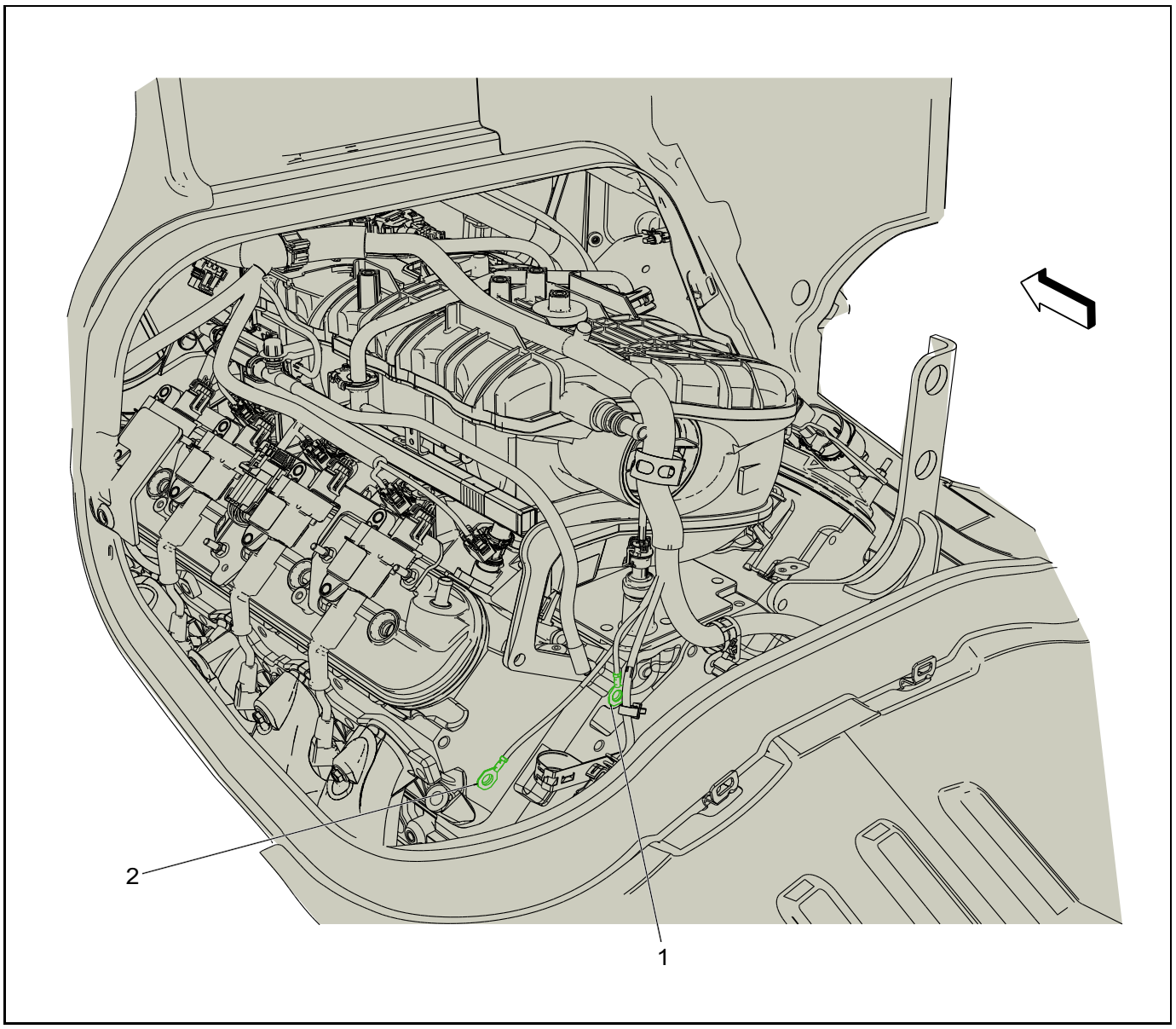
4004314

Items

(1) G100 Forward Lamp Harness
(2) G101 Forward Lamp Harness

cardiagn.com

G102 and G103 (L96 or LC8)



4004324

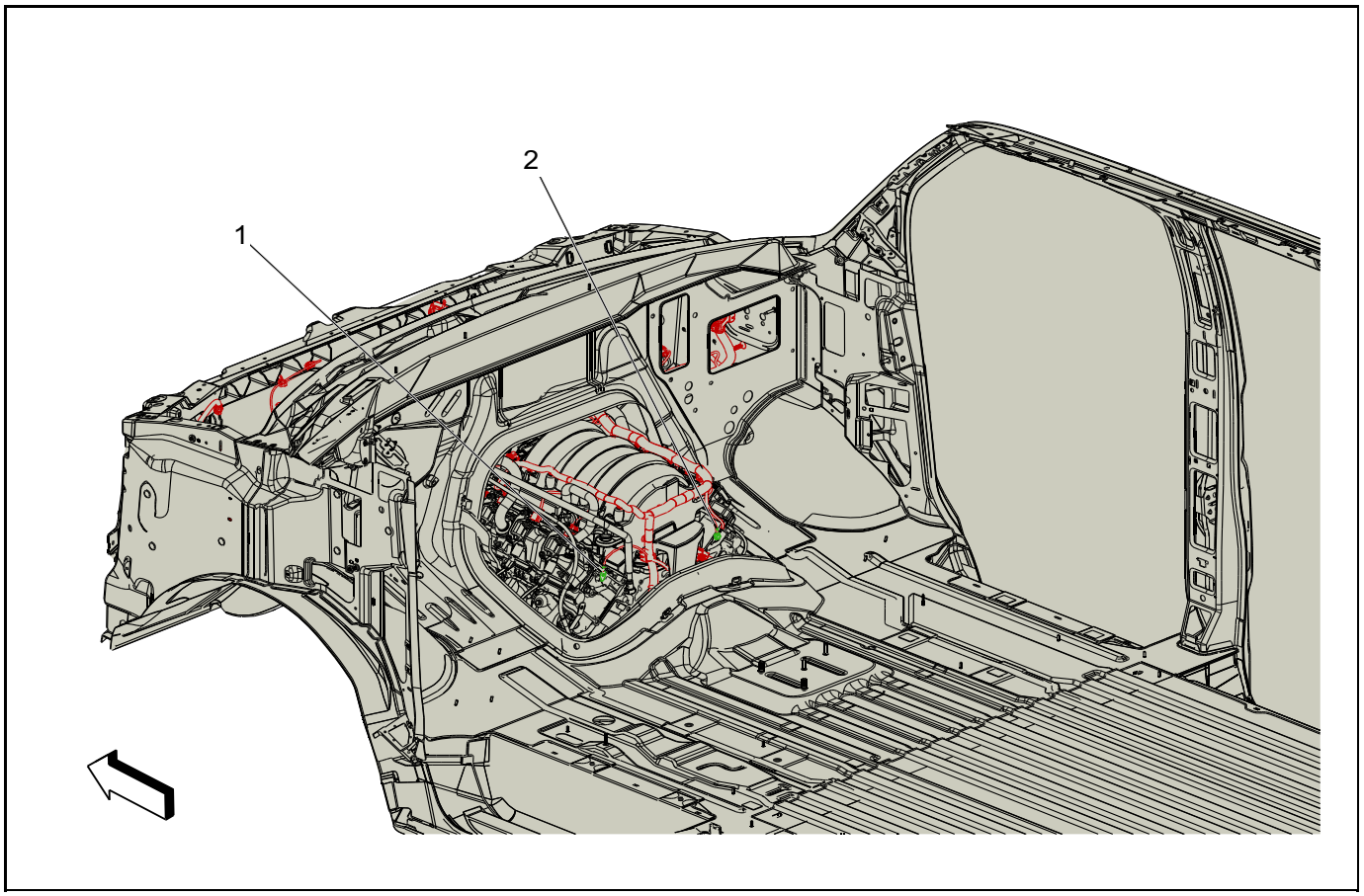
Items

(1) G103 Engine Harness

(2) G102 Engine Harness

cardiagn.com

G107 and G108 (LV1)



4861786

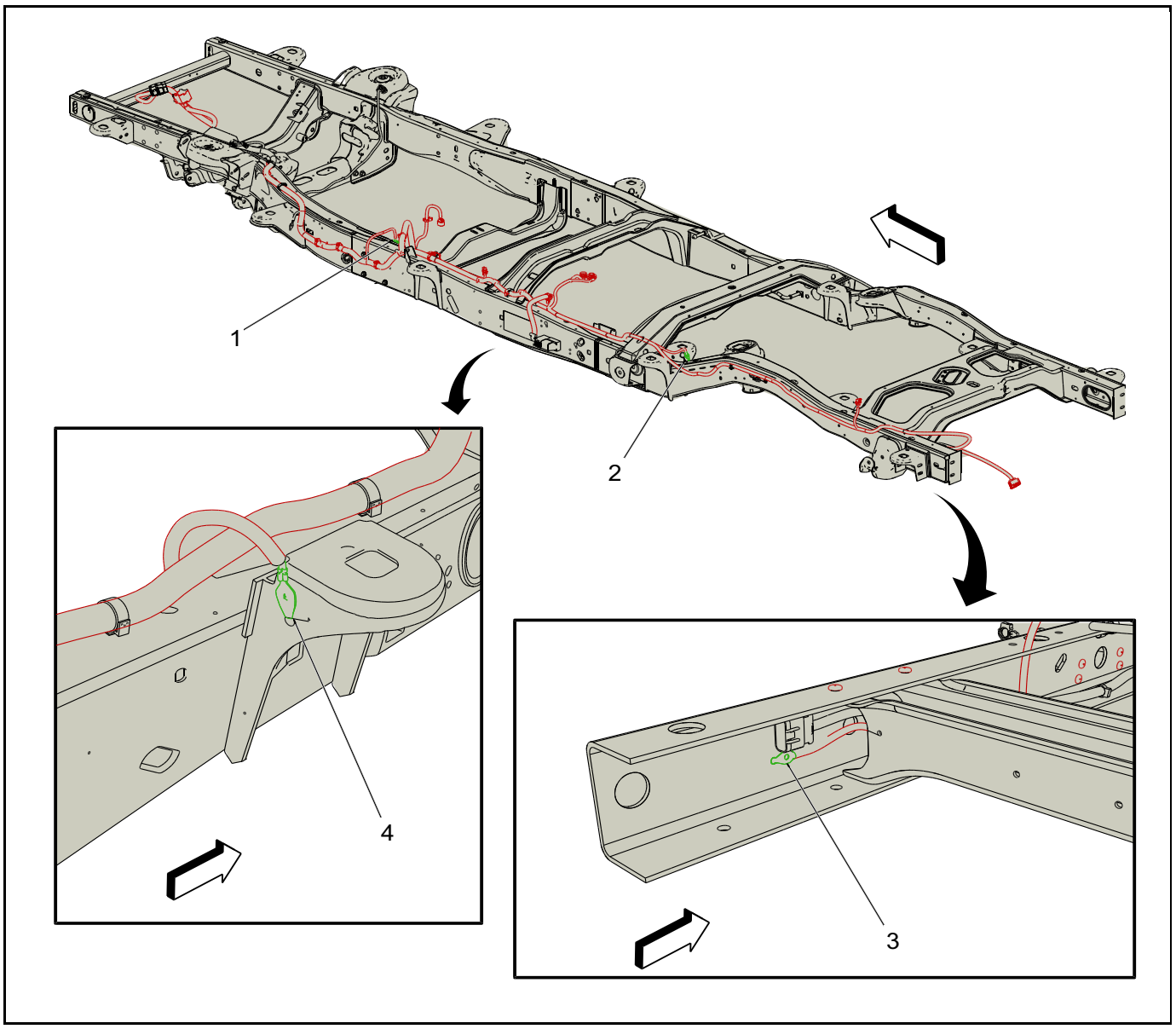
Items

(1) G107 Engine Harness (LV1)

(2) G108 Engine Harness (LV1)

cardiagn.com

G300, G400, G404 and G405



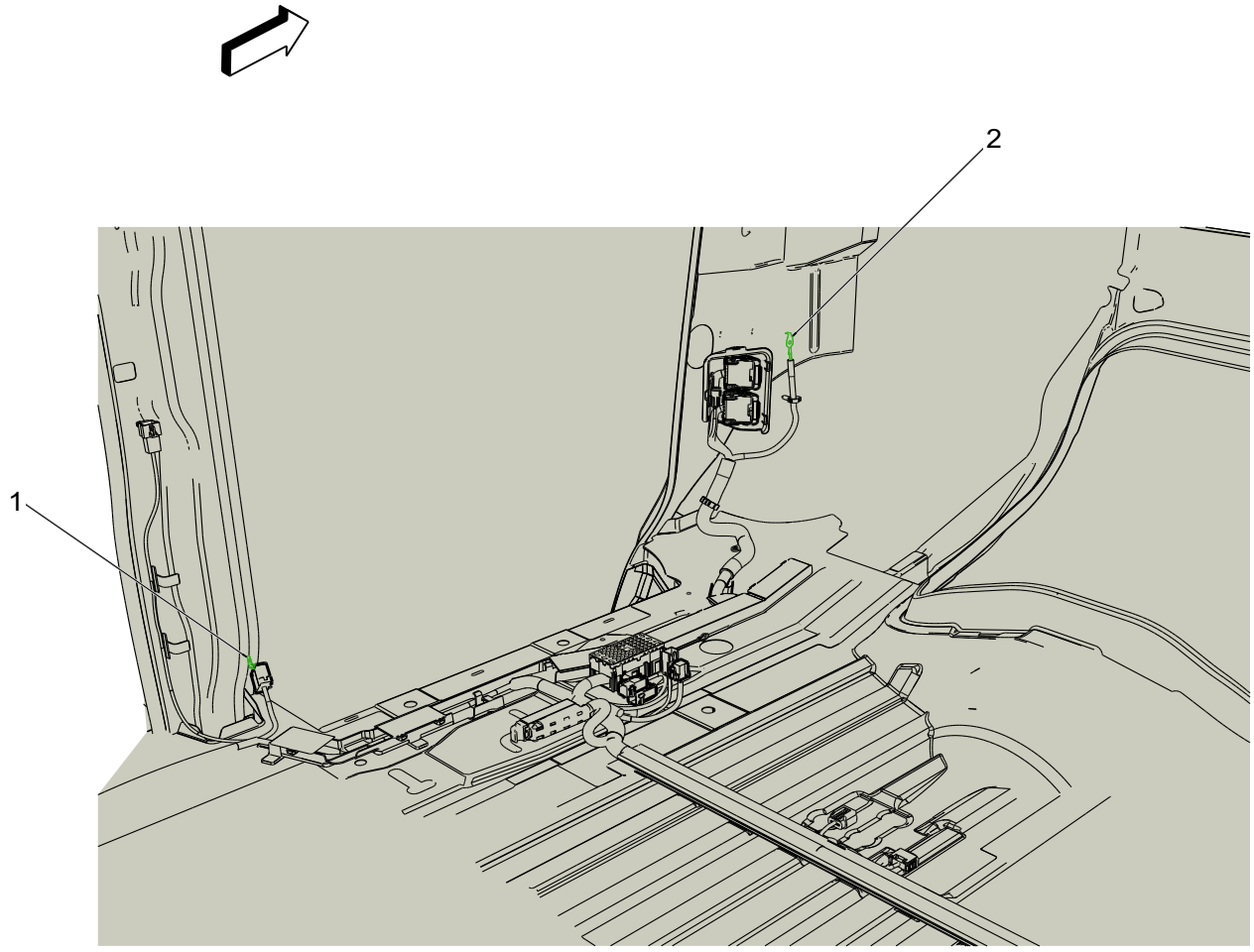
4584379

Items

(1) G405 Chassis Harness (LWN)
(2) G400 Chassis Harness (LWN)
(3) G300 Chassis Harness
(4) G404 Chassis Harness

cardiagn.com

G302 and G347



4004327

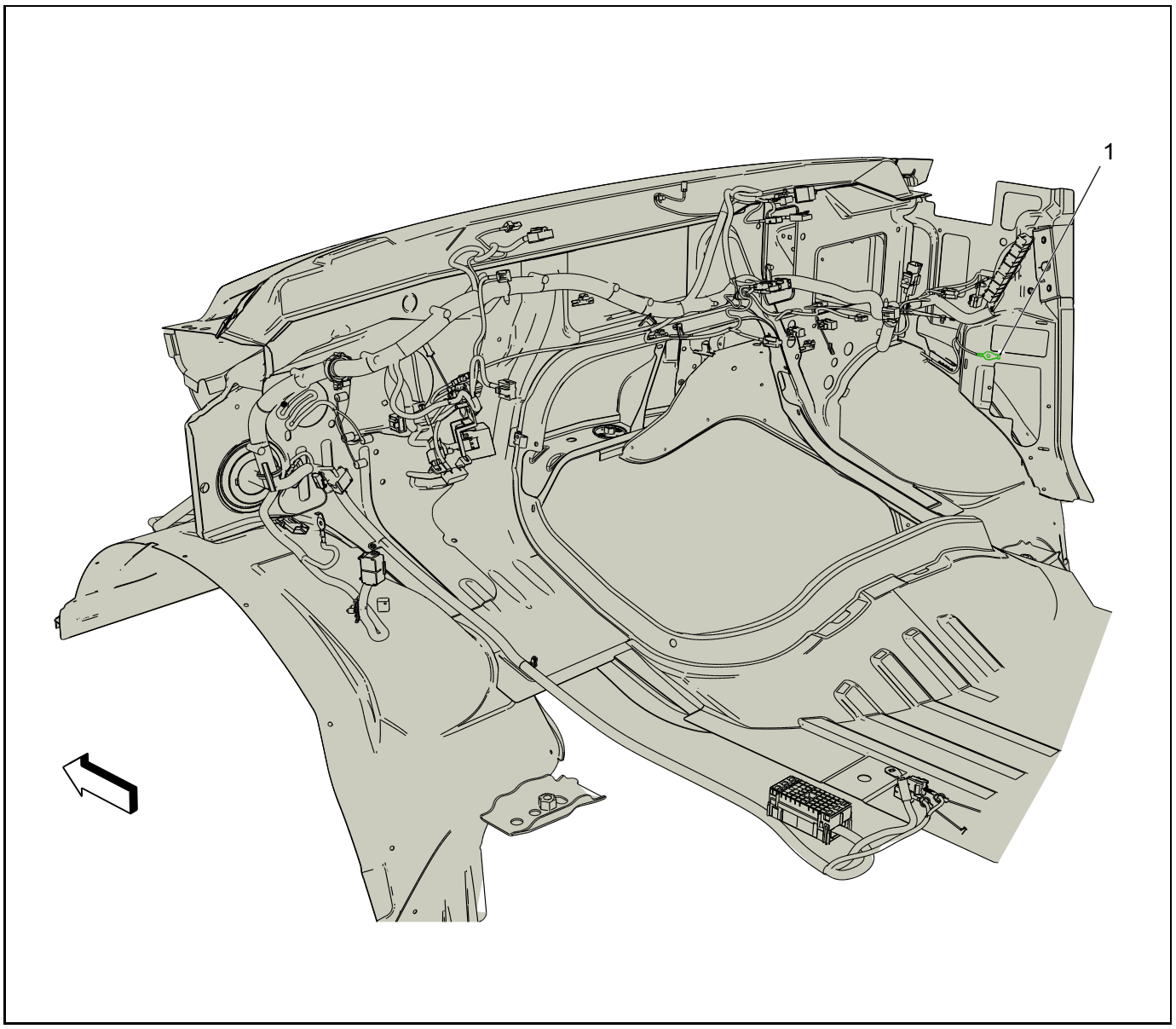
Items

(1) G347 Body Harness

(2) G302 Instrument Panel

cardiagn.com

G304



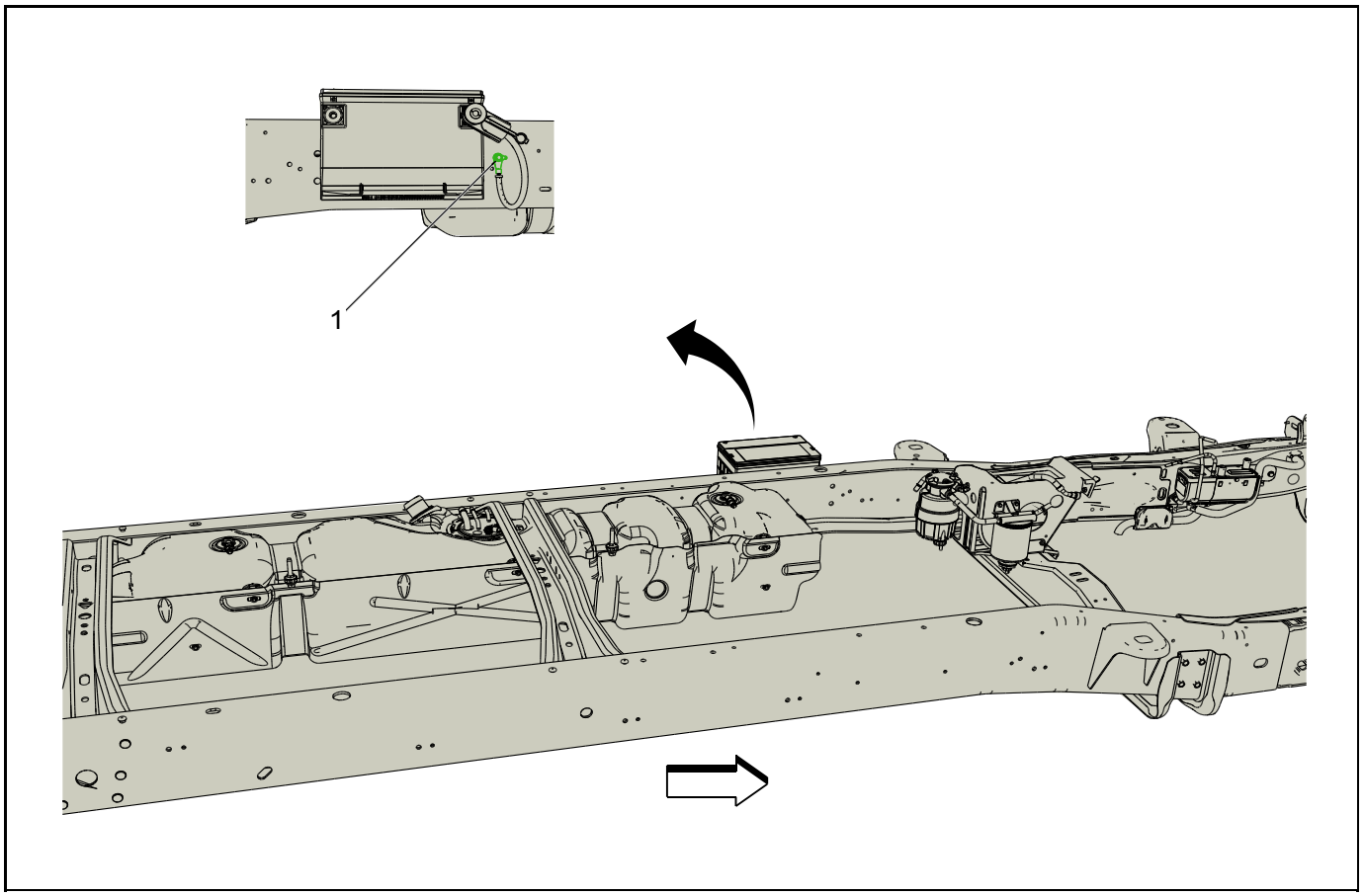
4010006

Items

(1) G304 Instrument Panel

cardiagn.com

G305



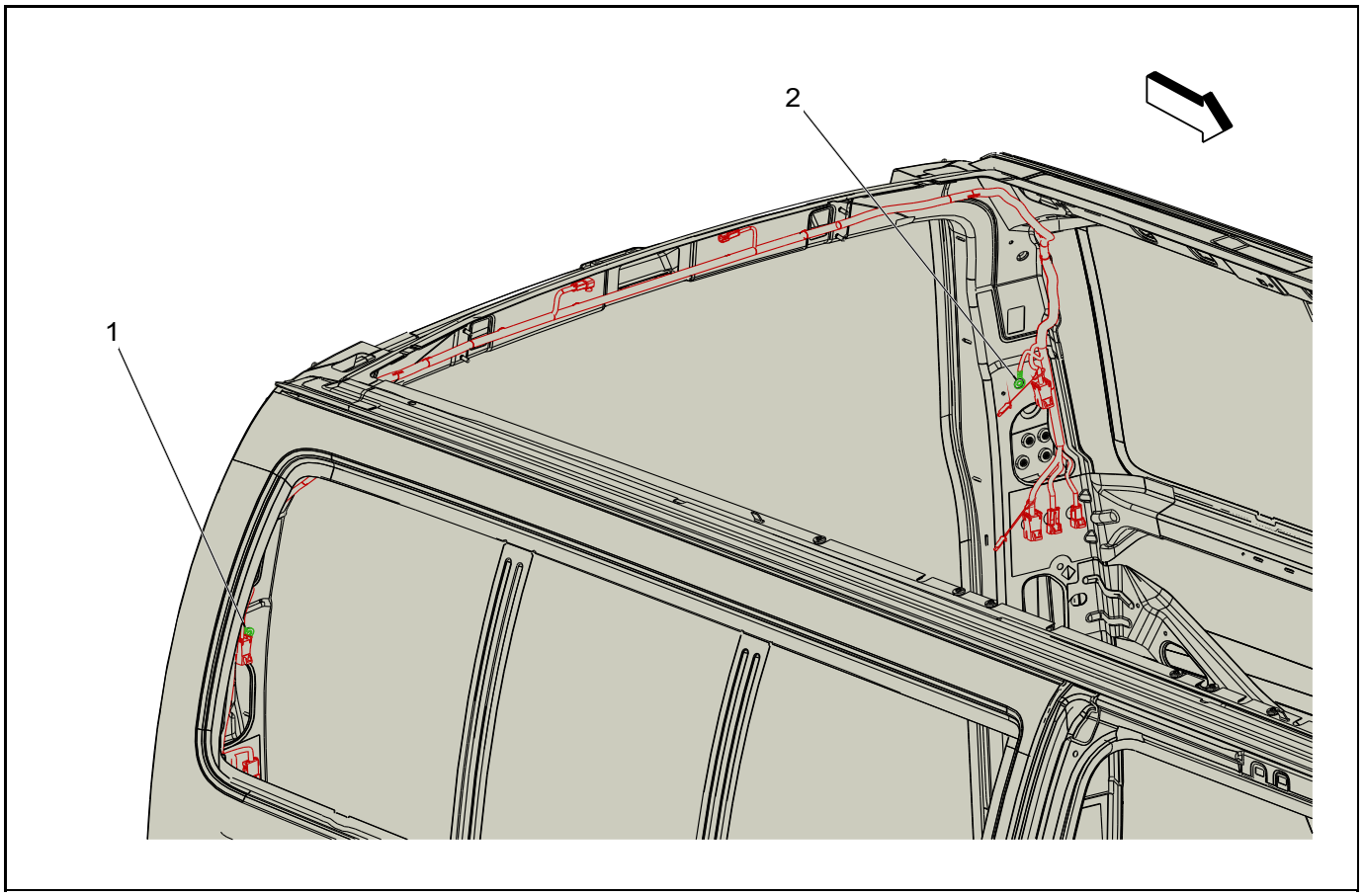
4005659

Items

(1) G305 Auxiliary Battery Negative Cable (TP2 or LWN)

cardiagn.com

G401 and G402 (Passenger or Cargo)



4861788

Items

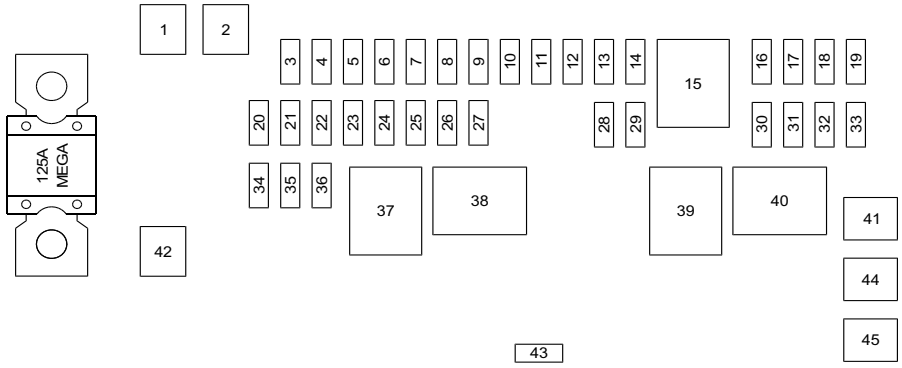
(1) G401 Body Harness (Passenger or Cargo)

(2) G402 Body Harness (Passenger or Cargo)

cardiagn.com

Electrical Center Identification Views

X50A Fuse Block - Underhood Label



MINI FUSES

3 15A RT STOP/TRN TRLR
4 10A SPARE
5 10A SPARE
6 10A FSCM IGN
7 10A BCM-5
8 10A BCM-7
9 10A BCM-4
10 10A IPC
11 30A TRLR WRG
12 10A SPARE
13 10A DISPLY MIR/REAR B/U CAMERA
14 15A WASH
16 20A HORN
17 15A TRANS
18 15A A/C CMPRSR
19 10A ECM BATT
20 10A CUTAWAY LH STP/TRN LAMP
21 15A LT STOP/TRN TRLR
22 10A CUTAWAY RH STP/TRN LAMP
23 15A SPARE
24 30A GAS FUEL PUMP
24 20A DIESEL FUEL PUMP
25 20A AUX PWR OUTLET
26 10A BCM-3
27 10A SEO
28 10A AIRBAG
29 10A STR/WHL/SNSR
30 15A ECM IGN/GLOW PLUG MDL IGN
31 15A TCM IGN
32 10A TCM BATT
33 10A OBSDET
34 15A SPARE
35 15A FOH MDL
36 25A FSCM BATT
43 10A EV FAN CLUTCH
51 10A LT HI BEAM
52 10A RT HI BEAM
53 10A LT LO BEAM
54 10A RT LO BEAM
55 25A WPR
56 10A CNSTR VENT SOL
58 10A BCM-2
59 10A BCM-1
61 15A SPARE
62 10A O2 SNSR 2 (POST)/EV FAN
63 10A SPARE
64 15A MAF/CNSTR VENT/HUMIDITY SENSOR
65 20A ODD IGN/INJ
66 10A DRL2 (LOLVL-V22)
67 15A DRL1 (UPLVL+V22)
68 15A AUX STOP LAMP (S)
69 10A PWR EXT TRAILER
70 10A UPFTR STOP LAMP (S)
71 15A FUEL HTR/FLEX FUEL SNSR
72 10A BCM-6
73 20A LTR/DLC
75 15A V6 FUEL INJ
76 10A SOOT SNSR
77 10A O2 SNSR 1 (PRE)/CLS
78 10A ECM PWR/TRN
79 20A EVEN IGN/INJ

J-CASE FUSE

1 50A ABS MTR
2 40A ABS MDL
41 20A SPARE
42 30A TRLR WRG
44 40A STRTR SOL
45 30A ECM PWR/TRN
46 25A AC/DC INV
47 40A FAN LO
74 40A FRT BLWR

RELAYS

15	MICRO G8V	RUN/CRNK
37	MICRO G8V	SPARE
38	MICRO G8V	FUEL PUMP
39	MICRO G8V	CRNK
40	MICRO G8V	A/C CMPRSR
48	SOLID STATE	EV FAN CLUTCH
49	MICRO G8V	PWR/TRN
50	SOLID STATE	SPARE
57	MICRO G8V	FAN LO
60	MICRO G8V	FAN CNTRL

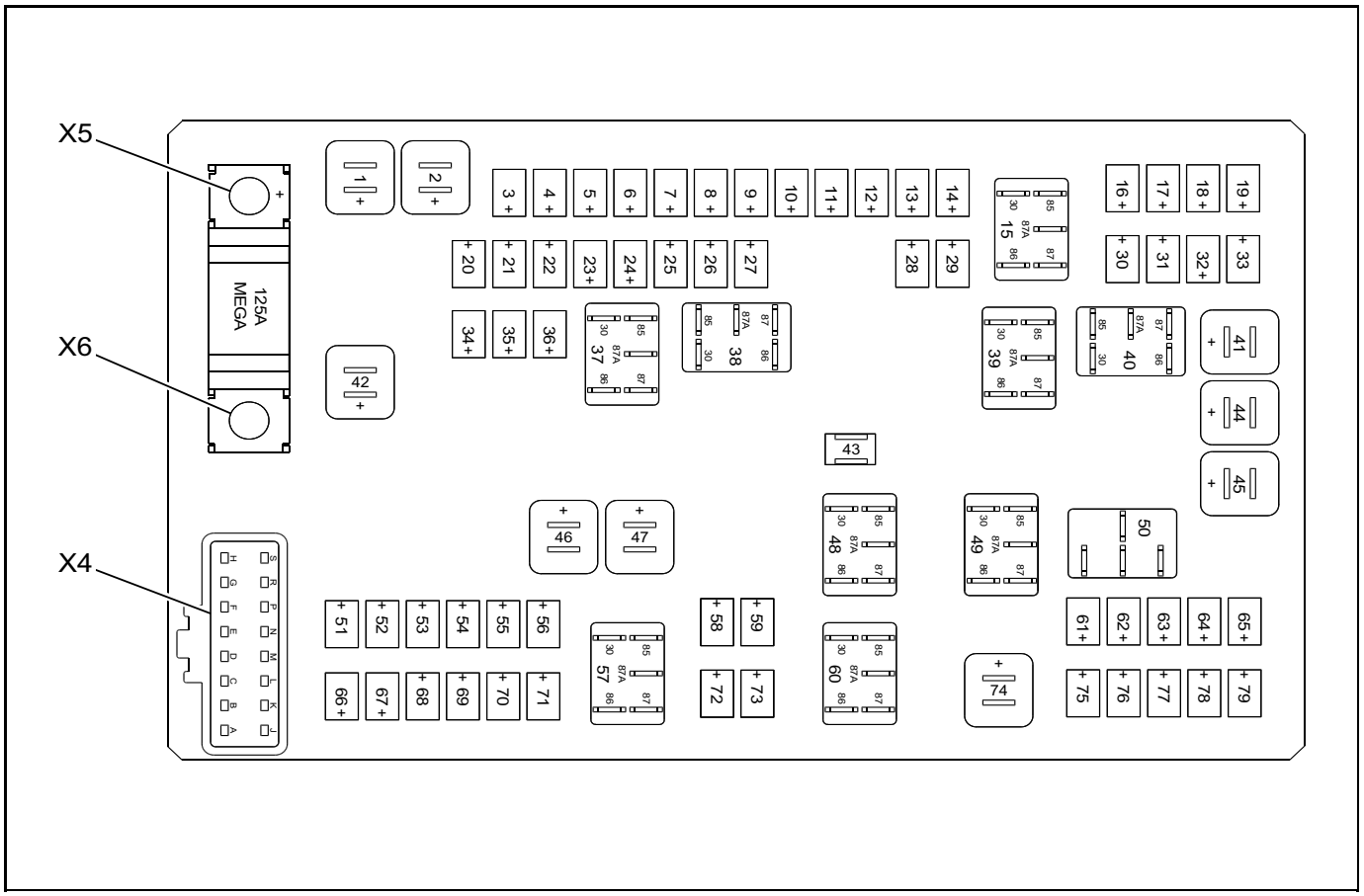
CIRCUIT BOARD RELAY (NOT SHOWN)

K3 WPR HI
K5 HORN/WASH
K6 LO BEAM
K7 HI BEAM
K9 TRLR LT STOP/TRN
K11 STOP LAMP(S)
K13 WPR
K18 TRLR RT STOP/TRN
K19 DRL

4845391

cardiagn.com

X50A Fuse Block - Underhood Top View



4846863

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Mega Fuses				
—	MEGA	MEGA	125A	• X52A Fuse Block - Passenger Compartment
Mini Fuses				
3	RT STOP/TRN TRLR	F3UA	15A	• X88 Trailer Connector
4	SPARE	F4UA	10A	• Not Used
5	SPARE	F5UA	10A	• Not Used
6	FSCM IGN	F6UA	10A	• E11A Fuel Heater/Water in Fuel Sensor (LWN) • K38 Chassis Control Module (LV1/L96/LC8)
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	SPARE	F12UA	10A	• Not Used
13	DISPLY MIR/ REAR B/U CAMERA	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

cardiagn.com

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
17	TRANS	F17UA	15A	• Not Used
18	A/C CMPRSR	F18UA	15A	• Q2 A/C Compressor Clutch (C60)
19	ECM BATT	F19UA	10A	• K20 Engine Control Module
20	CUTAWAY LH 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	NOX SENSOR	F23UA	15A	• B136 Exhaust Particulate Matter Sensor (LWN) • B195A Nitrogen Oxides Sensor 1 (LWN) • B195B Nitrogen Oxides Sensor 2 (LWN)
24	DIESEL FUEL PUMP	F24UA	20A	• A7 Fuel Pump and Level Sensor Assembly (LWN)
25	AUX PWR OUTLET	F25UA	20A	• X80B Accessory Power Receptacle - Center Console 2
26	BCM-3	F26UA	10A	• K9 Body Control Module
27	SEO	F27UA	10A	• P16 Instrument Cluster
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	ECM IGN/GLOW PLUG MDL IGN	F30UA	15A	• K20 Engine Control Module
31	TCM IGN	F31UA	15A	• K71 Transmission Control Module (M5U) • T12 Automatic Transmission Assembly (MYD)
32	TCM BATT	F32UA	10A	• T12 Automatic Transmission Assembly (MYD)
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	NOX SENSOR	F34UA	15A	• K115 Reductant Control Module (LWN) • KR121B Reductant Control Module Relay 2 (LWN)
35	FOH MDL	F35UA	15A	• E19 Coolant Heater (K08)
36	FSCM BATT	F36UA	20A	• K38 Chassis Control Module (LV1/L96/LC8)
43	EV FAN CLUTCH	F43UA	10A	• KR20F Cooling Fan Relay (LWN) • Q85 Cooling Fan Clutch (LWN)
51	LT HI BEAM	F51UA	10A	• E4E Headlamp - Left High Beam (V22) • E13L Headlamp - Left (Without V22)
52	RT HI BEAM	F52UA	10A	• E4F Headlamp - Right High Beam (V22) • E13R Headlamp - Right (Without V22)
53	LT LO BEAM	F53UA	10A	• E4G Headlamp - Left Low Beam (V22) • E13L Headlamp - Left (Without V22)
54	RT LO BEAM	F54UA	10A	• E4H Headlamp - Right Low Beam (V22) • E13R Headlamp - Right (Without V22)
55	WPR	F55UA	25A	• KR12B Windshield Wiper Relay
56	CNSTR VENT SOL	F56UA	10A	• Q13 Evaporative Emission Vent Solenoid Valve (LV1/L96/LC8)
58	BCM-2	F58UA	10A	• K9 Body Control Module

cardiagn.com

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
59	BCM-1	F59UA	10A	• K9 Body Control Module
61	CCV HTR/ENG OIL SOL	F61UA	15A	• E45 Positive Crankcase Ventilation Heater (LWN) • Q44 Engine Oil Pressure Control Solenoid Valve (LV1)
62	O2 SNSR 2 (POST)/EV FAN	F62UA	10A	• B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (LV1/L96/LC8) • B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (LV1/L96/LC8)
63	SPARE	F63UA	10A	• Not Used
64	MAF/CNSTR VENT/HUMIDITY SENSOR	F64UA	15A	• B75C Multifunction Intake Air Sensor • Q12 Evaporative Emission Purge Solenoid Valve (LV1/L96/LC8)
65	ODD IGN/INJ	F65UA	20A	• K20 Engine Control Module (LV1) • Q17A Fuel Injector 1 (L96/LC8) • Q17C Fuel Injector 3 (L96/LC8) • Q17E Fuel Injector 5 (L96/LC8) • Q17G Fuel Injector 7 (L96/LC8) • T8A Ignition Coil 1 (LV1/L96/LC8) • T8C Ignition Coil 3 (LV1/L96/LC8) • T8E Ignition Coil 5 (LV1/L96/LC8) • T8G Ignition Coil 7 (L96/LC8)
66	DRL2 (LOLVL-V22)	F66UA	10A	• E13L Headlamp - Left (Without V22)
67	DRL1 (UPLVL +V22)	F67UA	15A	• E4G Headlamp - Left Low Beam (V22)
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	• B198 Fuel Composition Sensor (L96)
72	BCM-6	F72UA	10A	• K9 Body Control Module
73	LTR/DLC	F73UA	20A	• E32 Cigarette Lighter Receptacle (DT4) • X80A Accessory Power Receptacle - Center Console 1 (Without DT4) • X84 Data Link Connector
75	ECM	F75UA	15A	• K20 Engine Control Module (LWN)
76	SOOT SNSR	F76UA	10A	• Not Used
77	O2 SNSR 1 (PRE)/CLS	F77UA	10A	• B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (LV1/L96/LC8) • B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (LV1/L96/LC8) • K20 Engine Control Module (LWN)
78	ECM PWR/TRN	F78UA	10A	• K20 Engine Control Module (L96/LC8)

cardiagn.com

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
79	EVEN IGN/INJ	F79UA	20A	• Q17B Fuel Injector 2 (L96/LC8) • Q17D Fuel Injector 4 (L96/LC8) • Q17F Fuel Injector 6 (L96/LC8) • Q17H Fuel Injector 8 (L96/LC8) • T8B Ignition Coil 2 (LV1/L96/LC8) • T8D Ignition Coil 4 (LV1/L96/LC8) • T8F Ignition Coil 6 (LV1/L96/LC8) • T8H Ignition Coil 8 (L96/LC8)
J-Case Fuses				
1	ABS MTR	F1UA	50A	• K17 Electronic Brake Control Module
2	ABS MDL	F2UA	40A	• K17 Electronic Brake Control Module
41	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 (LV1/LWN)
46	SPARE	F46UA	30A	• Not Used (Without KI4)
46	AC/DC INV	F46UA	25A	• T1 Accessory DC/AC Power Iverter Module (KI4)
47	FAN LO	F47UA	40A	• Not Used
74	FRT BLWR	F74UA	40A	• R3 Blower Motor Resistor
Relays				
15	RUN/CRNK	KR93 Ignition Run/ Crank Relay	—	• A10 Inside Rearview Mirror (UVC) • B87 Rearview Camera (UVC) • E11A Fuel Heater/Water in Fuel Sensor (LWN) • K20 Engine Control Module • K36 Inflatable Restraint Sensing and Diagnostic Module • K38 Chassis Control Module (LV1/L96/LC8) • K71 Transmission Control Module (M5U) • P16 Instrument Cluster • S40 Passenger Air Bag Disable Switch (C99) • T12 Automatic Transmission Assembly (MYD)
37	NOX SENSOR	KR121B Reductant Control Module Relay 2	—	• B136 Exhaust Particulate Matter Sensor (LWN) • B195A Nitrogen Oxides Sensor 1 (LWN) • B195B Nitrogen Oxides Sensor 2 (LWN)
38	FUEL PUMP	KR23A Fuel Pump Relay	—	• A7 Fuel Pump and Level Sensor Assembly (LWN)
39	CRNK	KR27 Starter Relay	—	• M64 Starter Motor
40	A/C CMPRSR	KR29 A/C Compressor Clutch Relay	—	• Q2 A/C Compressor Clutch
48	EV FAN CLUTCH	KR20F Cooling Fan Relay	—	• Q85 Cooling Fan Clutch (LWN)

cardiagn.com

Usage Table (cont'd)

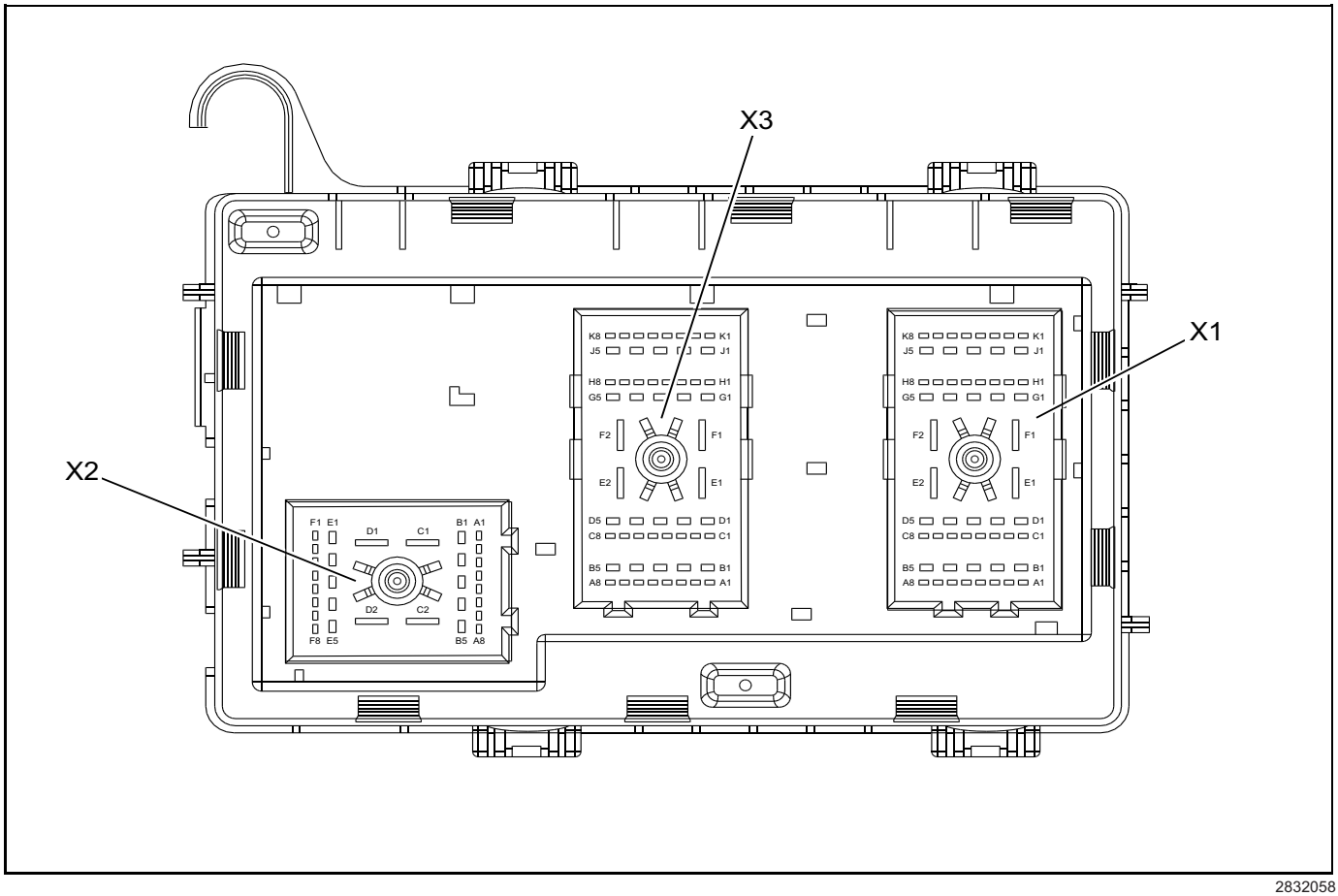
No.	Device Label Name	Device Assigned Name	Rating	Description
49	PWR/TRN	KR75 Engine Controls Ignition Relay	—	• B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (LV1/L96/LC8) • B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (LV1/L96/LC8) • B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (LV1/L96/LC8) • B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (LV1/L96/LC8) • B75C Multifunction Intake Air Sensor • B198 Fuel Composition Sensor (L96) • E45 Positive Crankcase Ventilation Heater (LWN) • K20 Engine Control Module • Q12 Evaporative Emission Purge Solenoid Valve (LV1/L96/LC8) • Q17A Fuel Injector 1 (L96/LC8) • Q17B Fuel Injector 2 (L96/LC8) • Q17C Fuel Injector 3 (L96/LC8) • Q17D Fuel Injector 4 (L96/LC8) • Q17E Fuel Injector 5 (L96/LC8) • Q17F Fuel Injector 6 (L96/LC8) • Q17G Fuel Injector 7 (L96/LC8) • Q17H Fuel Injector 8 (L96/LC8) • Q44 Engine Oil Pressure Control Solenoid Valve (LV1) • T8A Ignition Coil 1 (LV1/L96/LC8) • T8B Ignition Coil 2 (LV1/L96/LC8) • T8C Ignition Coil 3 (LV1/L96/LC8) • T8D Ignition Coil 4 (LV1/L96/LC8) • T8E Ignition Coil 5 (LV1/L96/LC8) • T8F Ignition Coil 6 (LV1/L96/LC8) • T8G Ignition Coil 7 (L96/LC8) • T8H Ignition Coil 8 (L96/LC8)
50	SPARE	KR150 Relay - Spare	—	• Not Used
57	FAN LO	KR20C Cooling Fan Low Speed Relay	—	• Not Used
60	FAN CNTRL	KR20E Cooling Fan Speed Control Relay	—	• Not Used
Important: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.				
K3	WPR HI	KR12C Windshield Wiper Speed Control Relay	—	• M75 Windshield Wiper Motor
K5	HORN/WASH	KR3 Horn Relay, KR11 Windshield Washer Pump Relay	—	• P13 Horn Assembly • G24 Windshield Washer Pump
K6	LO BEAM	KR49 Headlamp Low Beam Relay	—	• E4G Headlamp - Left Low Beam (V22) • E4H Headlamp - Right Low Beam (V22) • E13L Headlamp - Left (Without V22) • E13R Headlamp - Right (Without V22)
K7	HI BEAM	KR48 Headlamp High Beam Relay	—	• E4E Headlamp - Left High Beam (V22) • E4F Headlamp - Right High Beam (V22) • E13L Headlamp - Left (Without V22) • E13R Headlamp - Right (Without V22)

cardiagn.com

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
K9	TRLR LT STOP/ TRN	KR63L Trailer Stop/Turn Signal Lamp Relay - Left	—	• X88 Trailer Connector • X405 (Cutaway)
K11	STOP LAMP(S)	KR59 Stop Lamp Relay	—	• W8 Blunt Cut - Trailer Provision • W25 Blunt Cut - Configurable Provision • X405 (Cutaway)
K13	WPR	KR12B Windshield Wiper Relay	—	• KR12C Windshield Wiper Speed Control Relay • M75 Windshield Wiper Motor
K18	TRLR RT STOP/ TRN	KR63R Trailer Stop/Turn Signal Lamp Relay - Right	—	• X88 Trailer Connector • X405 (Cutaway)
K19	DRL	KR42 Daytime Running Lamps Relay	—	• F66UA (Without V22) • F67UA (V22)

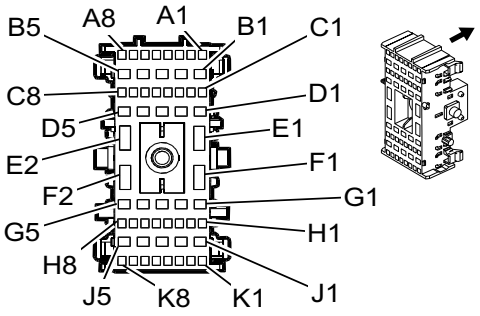
X50A Fuse Block - Underhood Bottom View



2832058

cardiagn.com

X50A Fuse Block - Underhood X1



2083844

Connector Part Information

Harness Type: Engine
OEM Connector: 15477823
Service Connector: 13574911
Description: 56-Way F 150, 280 GT Metri-Pack Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575479	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
II	13575718	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
III	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	C	A
IV	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
V	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	2	A
VI	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	E	A
VII	19367554	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
VIII	Not Available	No Tool Required	Not Available	Not Required	Not Required	Not Required	Not Required

X50A Fuse Block - Underhood X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.5	RD/WH	440	Battery Positive Voltage	IV	L96/LC8/LV1
	0.5	RD/BN	440	Battery Positive Voltage	IV	LWN
A2	0.75	RD/WH	440	Battery Positive Voltage	VIII	LV1
	0.35	RD/WH	1840	Battery Positive Voltage	I	MYD
A3 - A8	—	—	—	Not Occupied	—	—
B1	0.5	RD/WH	840	Battery Positive Voltage	VI	—
B2	0.5	BN/L-GN	59	A/C Compressor Clutch Control	VI	C60+LWN
	0.5	D-GN	59	A/C Compressor Clutch Control	VI	C60-LWN
B3	—	—	—	Not Occupied	—	—
B4	0.8	D-GN	29	Horn Control	V	—

cardiagn.com

X50A Fuse Block - Underhood X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
B5	0.5	VT/L-GN	439	Run/Crank Ignition 1 Voltage	VI	—
C1	—	—	—	Not Occupied	—	—
C2	0.5	D-GN/WH	459	A/C Compressor Clutch Relay Control	IV	LC8/LWN/L96
	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	IV	LV1
C3 - C5	—	—	—	Not Occupied	—	—
C6	0.5	YE/BK	625	Starter Enable Relay Control	IV	—
C7	1	BK	1250	Ground	III	—
C8	0.5	L-GN/GY	465	Fuel Pump Primary Relay Control	IV	—
D1	0.75	RD/WH	1840	Battery Positive Voltage	V	LV1
	0.75	RD/L-GN	1840	Battery Positive Voltage	V	LWN
D2	—	—	—	Not Occupied	—	—
D3	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	VI	M5U
	0.5	PK	2139	Run/Crank Ignition 1 Voltage	VI	MYD
D4	0.75	BK	550	Ground	V	—
D5	—	—	—	Not Occupied	—	—
E1	5	PU	6	Starter Solenoid Crank Ignition Voltage	VII	LC8/LWN/L96
	4	YE	6	Starter Solenoid Crank Ignition Voltage	VII	LV1
E2	—	—	—	Not Occupied	—	—
F1	2.5	VT/GY	1439	Run/Crank Ignition 1 Voltage	II	—
F2	5	RD/BK	542	Battery Positive Voltage	VII	—
G1	1	PK	1039	Run/Crank Ignition 1 Voltage	V	LC8/L96
	0.75	VT/GY	1039	Run/Crank Ignition 1 Voltage	V	LV1
G2	0.8	PK	1039	Run/Crank Ignition 1 Voltage	V	—
G3	0.8	PK	1039	Run/Crank Ignition 1 Voltage	V	—
G4	0.75	VT/WH	1939	Run/Crank Ignition 1 Voltage	V	—
G5	0.5	PK	1939	Run/Crank Ignition 1 Voltage	VI	LC8/L96
	0.5	VT/WH	1939	Run/Crank Ignition 1 Voltage	VI	LV1
H1	—	—	—	Not Occupied	—	—
H2	0.8	PK	1339	Run/Crank Ignition 1 Voltage	III	—
H3 - H4	—	—	—	Not Occupied	—	—
H5	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	IV	—
H6	0.5	WH	2368	Cooling Fan Control Signal	IV	—
H7 - H8	—	—	—	Not Occupied	—	—
J1	1	PK	1239	Run/Crank Ignition 1 Voltage	V	LC8/L96
	0.75	VT/BK	1239	Run/Crank Ignition 1 Voltage	V	LV1
J2	0.8	PK	1239	Run/Crank Ignition 1 Voltage	V	—
J3	0.8	PK	1239	Run/Crank Ignition 1 Voltage	V	—
J4	0.5	VT/D-BU	5292	Powertrain Main Relay Fused Supply 3	VI	—
J5	0.5	VT/D-BU	5293	Powertrain Main Relay Fused Supply 4	VI	—
K1	1	PK	539	Run/Crank Ignition 1 Voltage	III	LC8/L96
	0.5	VT/GY	539	Run/Crank Ignition 1 Voltage	IV	LV1
	0.5	VT/D-BU	5291	Powertrain Main Relay Fused Supply 2	IV	LWN
K2 - K3	—	—	—	Not Occupied	—	—
K4	1	PK	1539	Run/Crank Ignition 1 Voltage	III	LC8/L96
	0.5	VT/WH	1539	Run/Crank Ignition 1 Voltage	IV	LV1
K5 - K7	—	—	—	Not Occupied	—	—

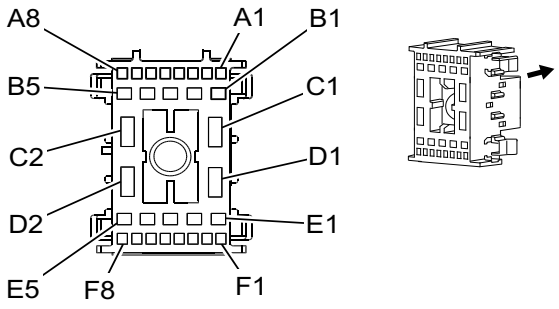
cardiagn.com

X50A Fuse Block - Underhood X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
K8	0.5	YE	5991	Powertrain Relay Coil Control	IV	—

cardiagn.com

X50A Fuse Block - Underhood X2



1665657

Connector Part Information

Harness Type: Chassis
OEM Connector: 13567518
Service Connector: 19180280
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575718	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
II	13575790	J-35616-2A (GY)	J-38125-553	15496302	Delphi 5	2	A
III	13575790	J-35616-2A (GY)	J-38125-553	15496302	Delphi 5	E	A
IV	19303704	J-35616-35 (VT)	J-38125-553	13525970	Delphi 4	2	A
V	19303704	J-35616-4A (PU)	J-38125-553	13525970	Delphi 4	2	A
VI	19303708	J-35616-35 (VT)	J-38125-553	13525969	Delphi 4	4	4
VII	19303708	J-35616-35 (VT)	J-38125-553	13525969	Delphi 4	F	D
VIII	19366953	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
IX	19367554	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
X	Not Available	No Tool Required	J-38125-215A	Not Available	Not Available	Not Available	Not Available

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	II	—
A3	0.8	D-BU/WH	149	Courtesy Lamp Control	II	—
A4	1	GN	619	Right Rear Turn Signal Lamp Control	II	—
A5	—	—	—	Not Occupied	—	—
A6	0.5	RD/WH	4042	Battery Positive Voltage	III	—

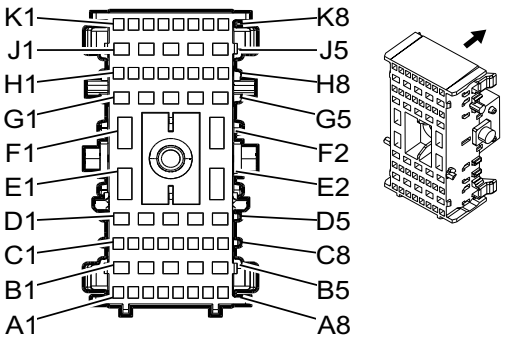
cardiagn.com

X50A Fuse Block - Underhood X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A7	1	BN	2109	Trailer Park Lamp Control	II	—
A8	0.5 0.75	VT/GY VT/GY	2739 2739	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	III II	LWN -LWN
B1	2.5	GY	120	Fuel Pump Control	VII	—
B2	—	VT/D-BU	5294	Powertrain Main Relay Fused Supply 5	X	—
B3	1	GY	3672	NOx Sensor 2 Control	IV	—
B4	2	RD/WH	1740	Battery Positive Voltage	VI	—
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	I	—
D1	3	RD/BK	742	Battery Positive Voltage	VIII	—
D2	5	RD/YE	442	Battery Positive Voltage	IX	—
E1	—	—	—	Not Occupied	—	—
E2	0.8	L-BU/	1320	CHMSL Control	V	—
E3	3	D-BU/	47	Trailer Auxiliary Control	VII	—
E4	1	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	V	—
E5	3	RD/WH	1940	Battery Positive Voltage	VII	—
F1	1	L-GN/	1624	Trailer Backup Lamp Control	II	—
F2	0.5	RD/L-GN	40	Battery Positive Voltage	III	—
F3	1	BN	2109	Trailer Park Lamp Control	II	—
F4	0.5	L-GN/D-BU	3889	DEF Power Module Relay Control	III	—
F5	0.5	RD/L-GN	2440	Battery Positive Voltage	III	—
F6	0.5	RD/WH	4042	Battery Positive Voltage	III	—
F7	1	D-GN/	619	Right Rear Turn Signal Lamp Control	II	—
F8	1	YE	618	Left Rear Turn Signal Lamp Control	II	—

cardiagn.com

X50A Fuse Block - Underhood X3



1581655

Connector Part Information

Harness Type: Instrument Panel
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575479	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
II	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	C	A
III	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
IV	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	2	A
V	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	E	A
VI	13575754	J-35616-4A (PU)	J-38125-553	15304713	Delphi 19	4	4
VII	13575756	J-35616-4A (PU)	J-38125-553	15304713	Delphi 19	F	D
VIII	19366953	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G

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	0.35	RD/WH	2840	Battery Positive Voltage	I	—
A3	0.8	RD/WH	2240	Battery Positive Voltage	II	—
A4	0.8	RD/WH	3040	Battery Positive Voltage	II	—
A5	0.5	RD/WH	2540	Battery Positive Voltage	III	—
A6	—	—	—	Not Occupied	—	—
A7	0.8	RD/WH	2740	Battery Positive Voltage	II	—
A8	—	—	—	Not Occupied	—	—
B1	3	RD/WH	3940	Battery Positive Voltage	VII	—

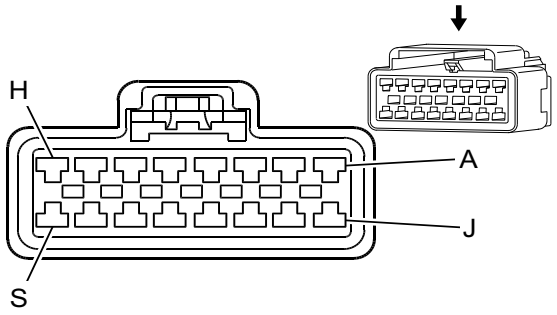
cardiagn.com

X50A Fuse Block - Underhood X3 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
B2	0.35	PK	1139	Run/Crank Ignition 1 Voltage	V	—
B3	0.35	PK	1139	Run/Crank Ignition 1 Voltage	V	—
B4	1	RD/WH	1040	Battery Positive Voltage	IV	—
B5	1	BN	2109	Trailer Park Lamp Control	IV	—
C1	0.5	PK	239	Run/Crank Ignition 1 Voltage	III	—
C2 - C3	—	—	—	Not Occupied	—	—
C4	0.35	OG	5186	Left Trailer Turn Signal Lamp Control	I	—
C5	1	BN	2109	Trailer Park Lamp Control	II	—
C6	1	D-GN	619	Right Rear Turn Signal Lamp Control	II	—
C7	0.8	D-BU/WH	149	Courtesy Lamp Control	II	—
C8	1	YE	618	Left Rear Turn Signal Lamp Control	II	—
D1	0.5	OG	228	Windshield Washer Pump Control	V	—
D2	0.35	YE	5199	Run/Crank Relay Coil Control	V	—
D3	1	L-GN	1624	Trailer Backup Lamp Control	IV	—
D4	3	D-BU/	47	Trailer Auxiliary Control	VII	—
D5 - E1	—	—	—	Not Occupied	—	—
E2	3	RD/WH	4140	Battery Positive Voltage	VIII	—
F1 - F2	—	—	—	Not Occupied	—	—
G1	0.8	RD/WH	640	Battery Positive Voltage	IV	—
G2	0.35	OG	2268	Windshield Washer Relay Control	V	—
G3	0.35	YE	5187	Right Trailer Turn Signal Lamp Control	V	—
G4	2	PU/	92	Windshield Wiper Motor High Speed Control	VI	—
G5	2	D-GN	95	Windshield Wiper Motor Low Speed Control	VI	—
H1	—	—	—	Not Occupied	—	—
H2	1	RD/WH	3840	Battery Positive Voltage	II	—
H3	0.35	TN	28	Horn Relay Control	III	—
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	III	—
H8	0.35	TN	860	Front Windshield Wiper Switch High Signal	I	—
J1	1	RD/WH	640	Battery Positive Voltage	IV	—
J2	0.8	RD/WH	2940	Battery Positive Voltage	IV	—
J3	0.8	BN	2309	Front Park Lamp Control	IV	—
J4	0.8	D-BU/WH	1315	Right Front Turn Signal Lamp Control	IV	—
J5 - K2	—	—	—	Not Occupied	—	—
K3	0.8	RD/WH	2140	Battery Positive Voltage	II	—
K4	0.5	L-BU	20	Stop Lamp Control	III	—
K5	0.5	L-BU/WH	6311	Cruise/ETC/TCC Brake Signal	III	—
K6	—	—	—	Not Occupied	—	—
K7	0.8	L-BU/WH	1314	Left Front Turn Signal Lamp Control	II	—
K8	0.35	TN/WH	1969	Headlamp High Beam Relay Control	I	—

cardiagn.com

X50A Fuse Block - Underhood X4



823321

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 15326952
Service Connector: 15306426
Description: 16-Way F 280 GT Series (BK)

Terminal Part Information

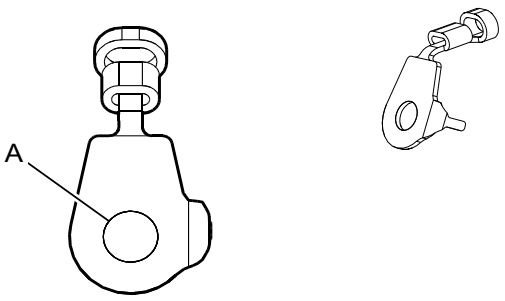
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	2	A
II	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	E	A

X50A Fuse Block - Underhood X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	—	—	Not Occupied	—	—
B	0.5	GY/BN	2309	Front Park Lamp Control	II	—
C	0.5	GY/BN	2309	Front Park Lamp Control	II	—
D	0.75	L-GN/VT	1315	Right Front Turn Signal Lamp Control	I	—
E	0.75	D-BU/WH	1314	Left Front Turn Signal Lamp Control	I	—
F	0.8	YE	712	Left Headlamp Low Beam Control	I	—
G - J	—	—	—	Not Occupied	—	—
K	0.5	YE	712	Left Headlamp Low Beam Control	II	—
L	0.35	YE	712	Left Headlamp Low Beam Control	II	—
M	0.75	WH	311	Right Headlamp High Beam Control	I	—
N	0.75	WH	711	Left Headlamp High Beam Control	I	—
P	0.75	YE	312	Right Headlamp Low Beam Control	I	—
R - S	—	—	—	Not Occupied	—	—

cardiagn.com

X50A Fuse Block - Underhood X5



4831180

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12160208
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

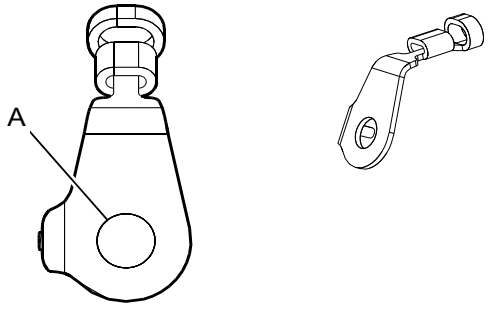
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50A Fuse Block - Underhood X5

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

cardiagn.com

X50A Fuse Block - Underhood X6



4831192

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13595106
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

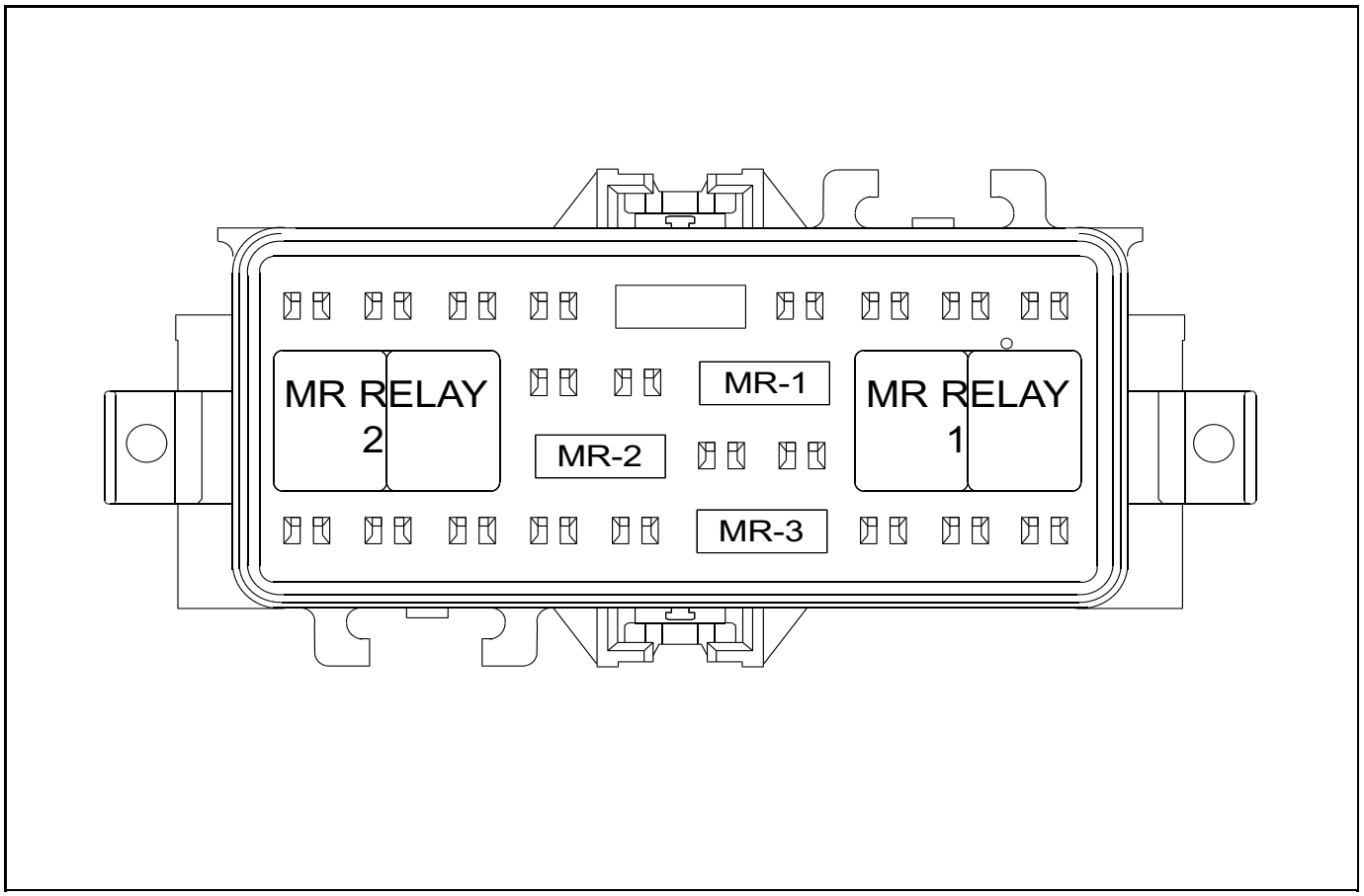
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50A Fuse Block - Underhood X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	19	RD	842	Battery Positive Voltage	I	—

cardiagn.com

X50B Fuse Block - Underhood Auxiliary Top View



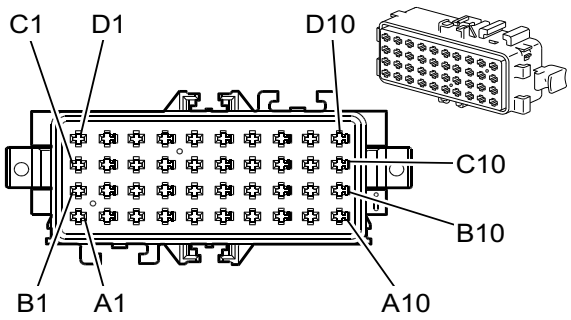
4845612

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	MR-2	F1UB	30A	• KR161B Configurable Provision Relay 2 (9L7)
F2	MR-1	F2UB	30A	• KR161A Configurable Provision Relay 1 (9L7)
F3	MR-3	F3UB	10A	• W25 Blunt Cut - Configurable Provision (9L7)
Relays				
R1	MR RELAY 1	KR90 Door Unlock Relay (WRF), KR161B Configurable Provision Relay 2 (9L7)	—	• S13D Door Lock Switch - Driver (WRF) • W25 Blunt Cut - Configurable Provision
R2	MR RELAY 2	KR97 Door Lock Relay (WRF), KR161A Configurable Provision Relay 1 (9L7)	—	• S13D Door Lock Switch - Driver (WRF) • W25 Blunt Cut - Configurable Provision

cardiagn.com

X50B Fuse Block - Underhood Auxiliary (9L7)



2002692

Connector Part Information

Harness Type: Accessory
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X50B Fuse Block - Underhood Auxiliary (9L7)

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	—	—	—	Not Occupied	—	—
B3	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	I	—
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	D-GN	6840	Auxiliary Device 2 Switched Voltage	I	—
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	1551	Signal Ground	I	—
C9	—	—	—	Not Occupied	—	—

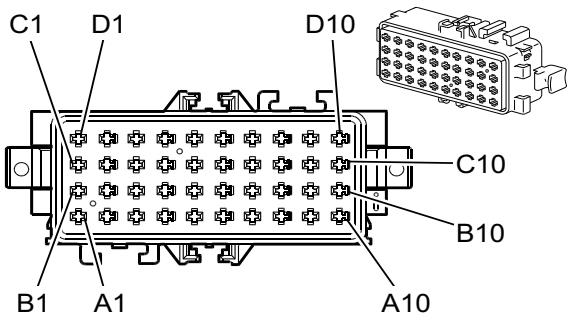
cardiagn.com

X50B Fuse Block - Underhood Auxiliary (9L7) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
C10	2.5	L-GN	6839	Auxiliary Device 1 Switched Voltage	I	—
D1 - D10	—	—	—	Not Occupied	—	—

cardiagn.com

X50B Fuse Block - Underhood Auxiliary (WRF)



2002692

Connector Part Information

Harness Type: Body
OEM Connector: 13607200
Service Connector: Service by Component - See Part Catalog
Description: 40-Way F 2.8 MCP Series, Sealed (BK)

Terminal Part Information

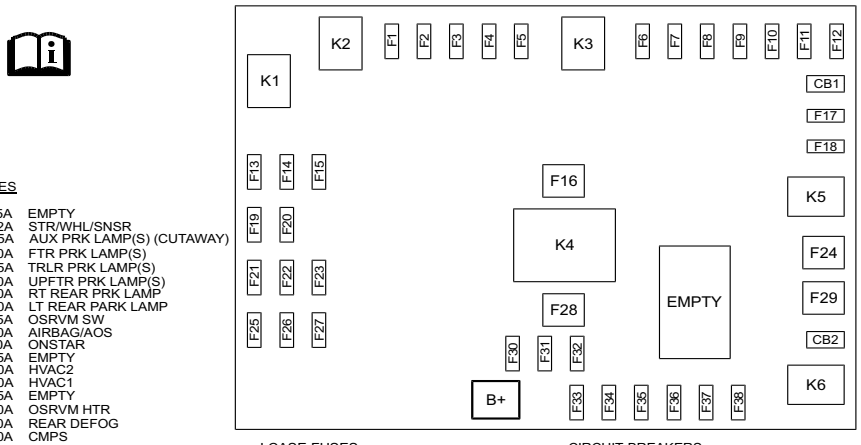
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300440	J-35616-4A (PU)	J-38125-557	Not Required	Not Required	Not Required	Not Required

X50B Fuse Block - Underhood Auxiliary (WRF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1 - A10	—	—	—	Not Occupied	—	—
B1	0.5	BK	450	Ground	I	—
B2	—	—	—	Not Occupied	—	—
B3	0.5	D-BU/YE	6843	Auxiliary Device Relay 2 Control	I	—
B4 - B7	—	—	—	Not Occupied	—	—
B8	0.5	BK	450	Ground	I	—
B9	—	—	—	Not Occupied	—	—
B10	0.5	BN	6842	Auxiliary Device Relay 1 Control	I	—
C1	0.5	RD/VT	102	Battery Positive Voltage	I	—
C2	—	—	—	Not Occupied	—	—
C3	0.5	BN/YE	780	Driver Door Lock Switch Lock Signal	I	—
C4 - C7	—	—	—	Not Occupied	—	—
C8	0.5	RD/VT	102	Battery Positive Voltage	I	—
C9	—	—	—	Not Occupied	—	—
C10	0.5	BN/WH	781	Driver Door Lock Switch Unlock Signal	I	—
D1 - D10	—	—	—	Not Occupied	—	—

cardiagn.com

X52A Fuse Block - Passenger Compartment Label



MINIFUSES

F1	15A	EMPTY
F2	2A	STR/WHL/SNSR
F3	15A	AUX PRK LAMP(S) (CUTAWAY)
F4	10A	FTR PRK LAMP(S)
F5	15A	TRLR PRK LAMP(S)
F6	10A	UPFTR PRK LAMP(S)
F7	10A	RT REAR PRK LAMP
F8	10A	LT REAR PARK LAMP
F9	5A	OSRVM SW
F10	10A	AIRBAG/AOS
F11	10A	ONSTAR
F12	15A	EMPTY
F13	10A	HVAC2
F14	20A	HVAC1
F15	15A	EMPTY
F17	20A	OSRVM HTR
F18	30A	REAR DEFOG
F19	10A	CMPS
F20	15A	RDO/CHIME
F21	10A	RFA/TPM
F22	2A	IGN SW (DLIS)/PK3
F23	10A	I/P CLUSTER
F25	10A	HVAC CNTRL
F26	10A	AUX/TRLR BCK/UP
F27	10A	TAIL LAMP(S) BCK/UP
F30	15A	UPFTR CTSY LAMP(S)
F31	15A	FRT DR LCK
F32	15A	REAR DR LCK
F33	15A	CARGO DR UNLCK
F34	15A	FRT PASS DR UNLCK
F35	15A	REAR PASS DR UNLCK
F36	15A	DVR DR UNLCK
F37	15A	EMPTY
F38	15A	EMPTY

J-CASE FUSES

F16	50A	UPFITTER AUX1
F16	25A	GAS AMBULANCE
F24	30A	EMPTY
F28	50A	UPFITTER AUX2
F28	20A	READING LAMP(S)
F28	25A	GAS AMBULANCE
F29	30A	REAR BLOWER

CIRCUIT BOARD RELAYS (NOT SHOWN)

K7	BCK/UP
K8	UPFTR CTSY LAMP(S)
K9A	FTR REAR PASS DR UNLCK
K9B	DRVR DR UNLCK
K10A	FTR REAR DR LCK
K10B	CARGO DR UNLCK

CIRCUIT BREAKERS

CB1	25A	PWR SEATS
CB2	25A	PWR WINDOW(S)

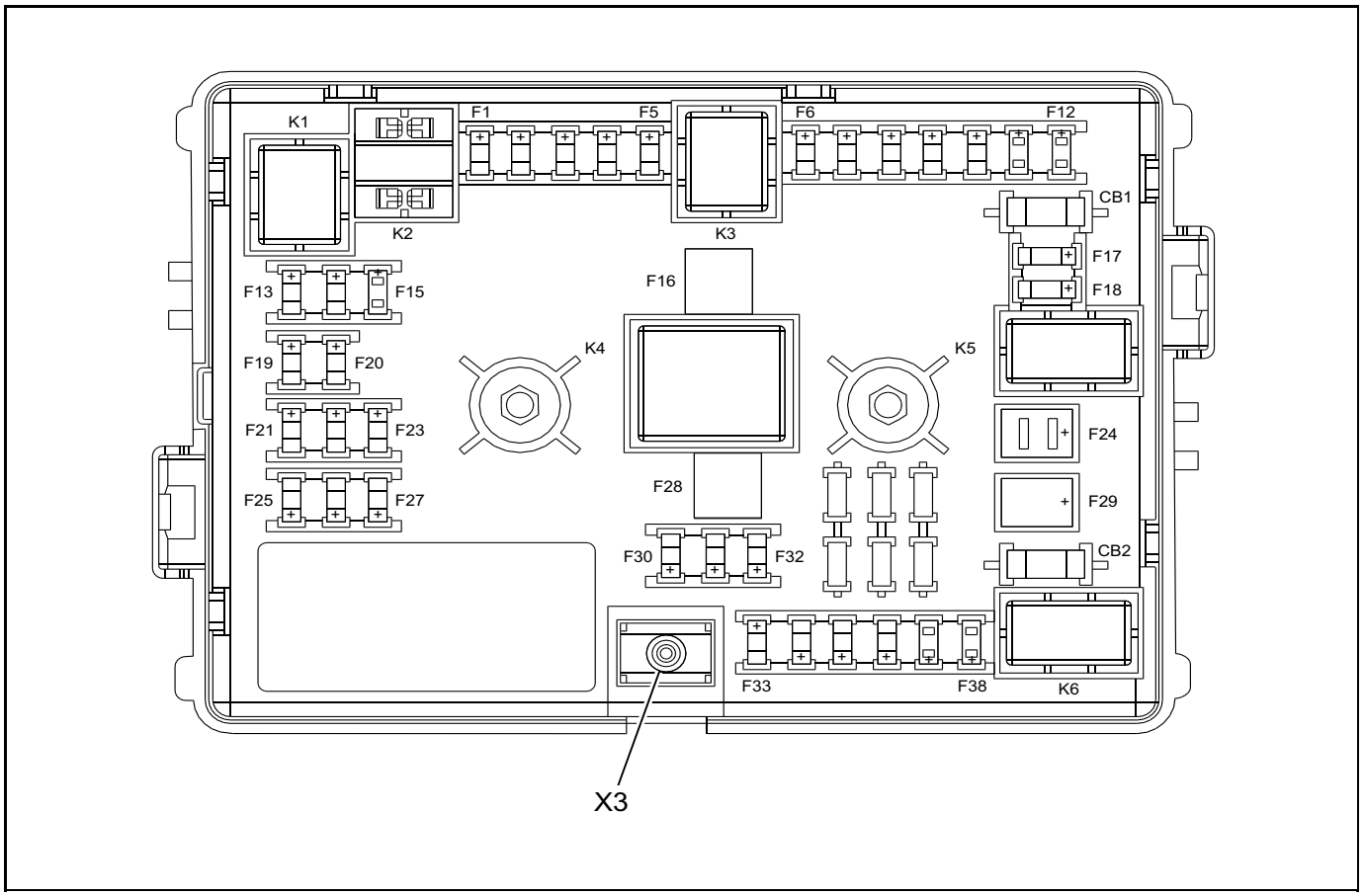
PLUG IN RELAYS

K1	(HC MICRO) RUN
K2	(HCM MICRO) EMPTY
K3	PRK LAMP(S)
K4	(HC MINI) UPFTR AUX2
K5	(HC MICRO) REAR DEFOG
K6	(HC MICRO) RAP

4822912

cardiagn.com

X52A Fuse Block - Passenger Compartment Top View



3988743

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Mini Fuses				
F1	EMPTY	F1PA	15A	• Not Used
F2	STR/WHL/SNSR	F2PA	2A	• X85 Steering Wheel Air Bag Coil (K34 or W1Y)
F3	AUX PRK LAMP(S) (CUTAWAY)	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	• X320 (5BV)
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)
F9	OSRVM SW	F9PA	5A	• KR90 Door Unlock Relay (AU3+WRF) • KR97 Door Lock Relay (AU3+WRF) • S52 Outside Rearview Mirror Switch (DEB or DE5)

cardiagn.com

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
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	15A	• B174 Frontview Camera (UFL/UEU)
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 • 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 Assembly • X81 Accessory Power Receptacle - 110V AC (KI4)
F15	REF LED DISPLAY	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 or UBS)
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 (Without 8S8)
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 • X405 (Cutaway)
F27	TAIL LAMP(S) BCK/UP	F27PA	10A	• E5A Backup Lamp - Left (Cargo or Passenger) • E5B Backup Lamp - Right (Cargo or Passenger)

cardiagn.com

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 Without 5BV) • E36AD Dome Lamp - Right Roof Rail (Cargo Without 5BV) • E36AH Dome Lamp (Cargo without 5BV) • E37F Dome/Reading Lamps - Front • E37M Dome/Reading Lamps - Middle (Passenger) • E37R Dome/Reading Lamps - Rear (Passenger without 5BV) • K9 Body Control Module • X320 (5BV) • 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 Fuses				
F16	UPFITTER AUX1	F16PA	50A	• W12 Blunt Cut - Emergency Vehicle Provision (YF1) • X222 (5BV) • X289 (PRP) • X321 (5BV)
F24	EMPTY	F24PA	30A	• Not Used
F28	UPFITTER AUX2	F28PA	50A	• W12 Blunt Cut - Emergency Vehicle Provision (YF1) • X222 (5BV) • X321 (5BV)
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 Breakers				
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)

cardiagn.com

Usage Table (cont'd)

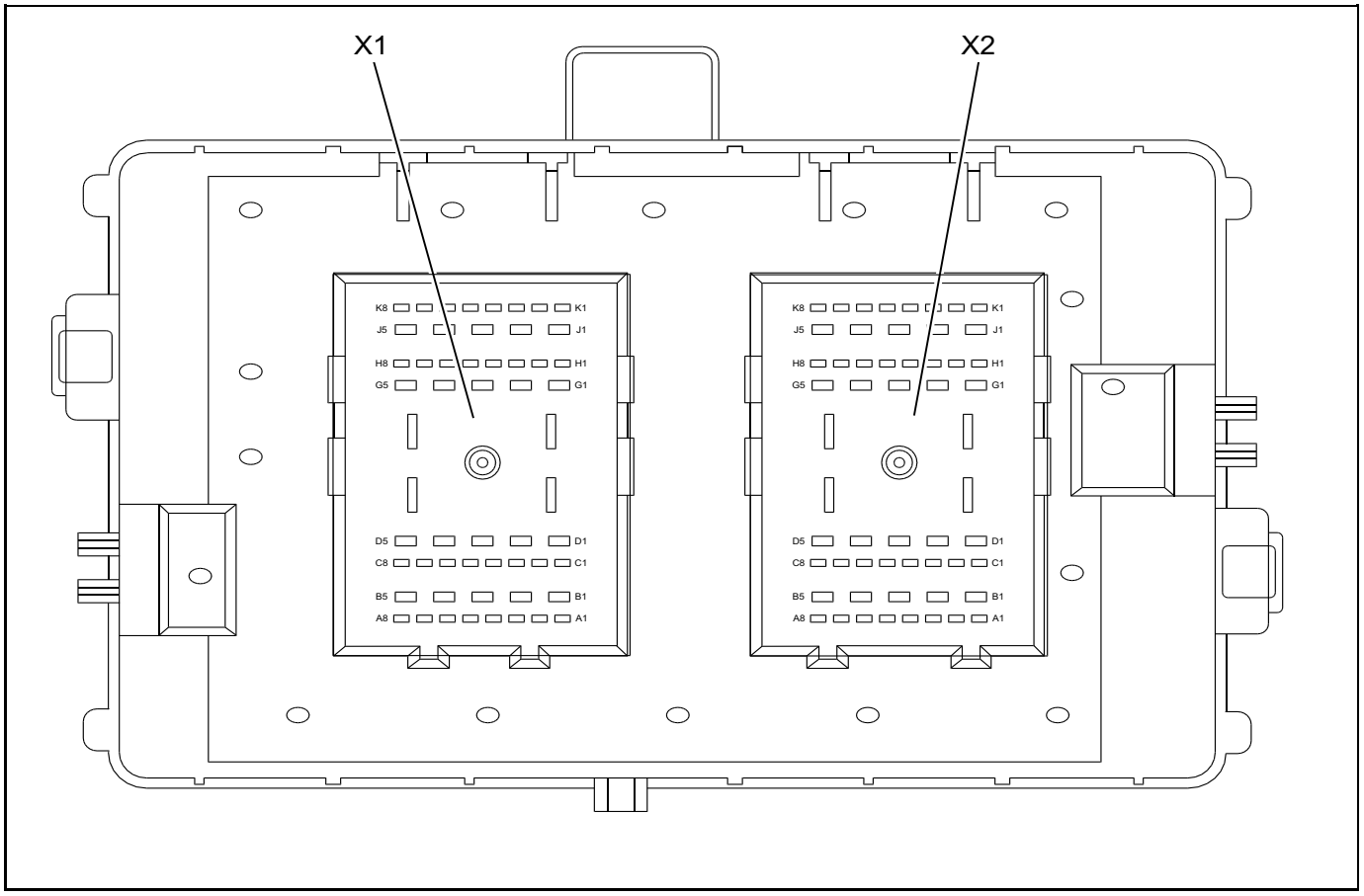
No.	Device Label Name	Device Assigned Name	Rating	Description
Relays				
K1	RUN	KR74 Ignition Run Relay	—	• F13PA • F14PA • F15PA • F19PA • KR77 Ignition Power Provision Relay
K2	EMPTY	KR150 Relay - Spare	—	• Not Used
K3	PRK LAMP(S)	KR53 Park Lamps Relay	—	• F3PA • F4PA • F5PA • F6PA • F7PA • F8PA
K4	UPFTR AUX2	KR77 Ignition Power Provision Relay	—	• W12 Blunt Cut - Emergency Vehicle Provision (YF1) • X222 (5BV) • X321 (5BV)
K5	REAR DEFOG	KR5 Rear Defogger Relay	—	• A9A Outside Rearview Mirror - Driver (DEB/DE5) • A9B Outside Rearview Mirror - Passenger (DEB/DE5) • E18L Rear Defogger Grid - Left (C49) • E18R Rear Defogger Grid - Right (C49)
K6	RAP	KR76 Retained Accessory Power Relay	—	• S79D Window Switch - Driver (A31) • S79P Window Switch - Passenger (A31)
Important: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.				
K7	BCK/UP	KR40 Backup Lamp Relay	—	• E5A Backup Lamp - Left • E5B Backup Lamp - Right • P3 Backup Alarm (8S3) • X88 Trailer Connector • X405 (Cutaway)
K8	UPFTR CTSY LAMP(S)	KR78 Courtesy Lamps Provision Relay	—	• E36AC Dome Lamp - Left Roof Rail (Cargo Without 5BV) • E36AD Dome Lamp - Right Roof Rail (Cargo Without 5BV) • E36AH Dome Lamp (Cargo without 5BV) • E37F Dome/Reading Lamps - Front • E37M Dome/Reading Lamps - Middle (Passenger) • E37R Dome/Reading Lamps - Rear (Passenger without 5BV) • K9 Body Control Module • X320 (5BV) • X405
K9A	FTR REAR PASS DR UNLCK	KR90P Passenger/ Cargo Door Unlock Relay	—	• A23P Door Latch Assembly - Passenger (AU3) • M14RR Door Lock Actuator - Right Rear (AU3) • KR90A Cargo Door Unlock Relay (AU3) • X87RB Sliding Door Jamb Contact Plate - Right Body
K9B	DRVR DR UNLCK	KR92D Driver Door Unlatch Relay	—	• A23D Door Latch Assembly - Driver (AU3)

cardiagn.com

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
K10A	FTR REAR DR LCK	KR97 Door Lock Relay	—	• A23D Door Latch Assembly - Driver (AU3) • A23P Door Latch Assembly - Passenger (AU3) • M13 Door Latch Assembly - Rear Cargo (Passenger or Cargo) • M14RR Door Lock Actuator - Right Rear (E24 or YA2) • X87RB Sliding Door Jamb Contact Plate - Right Body (E24 or YA2)
K10B	CARGO DR UNLCK	KR90A Cargo Door Unlock Relay	—	• M13 Door Latch Assembly - Rear Cargo (AU3)

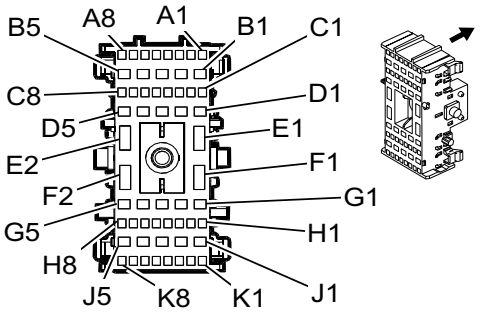
X52A Fuse Block - Passenger Compartment Bottom View



2832070

cardiagn.com

X52A Fuse Block - Passenger Compartment X1



2083844

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15477823
Service Connector: 13574911
Description: 56-Way F 150, 280 GT Metri-Pack Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575479	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
II	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	C	A
III	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
IV	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	2	A
V	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	E	A
VI	13579922	J-35616-44 (YE)	J-38125-558	12065915	Delphi 5	C	A
VII	19367554	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G

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	III	—
A5	0.35	D-BU/	45	Park Lamp Relay Control	I	—
A6	0.35	BN	6136	Control	I	—
A7 - A8	—	—	—	Not Occupied	—	—
B1	0.8	RD/WH	3240	Battery Positive Voltage	IV	—
B2	1	BN	2109	Trailer Park Lamp Control	IV	—
B3	0.35	BN	341	Run Ignition 3 Voltage	V	—
B4	0.8	BN	2309	Front Park Lamp Control	IV	—
B5	1	BN	2109	Trailer Park Lamp Control	IV	—
C1	1	YE	618	Left Rear Turn Signal Lamp Control	II	—

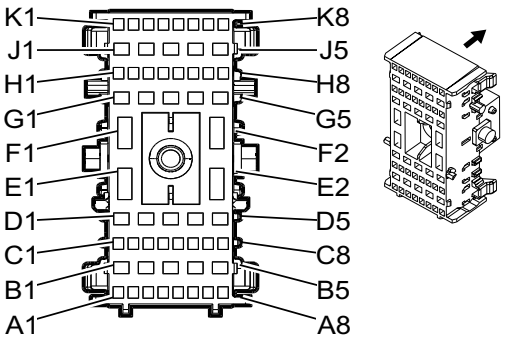
cardiagn.com

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
C2	0.35	BN/WH	230	Instrument Panel Lamp Dimming Control	I	—
C3	1	D-GN/	619	Right Rear Turn Signal Lamp Control	II	—
C4	0.35	WH	193	Rear Defog Relay Control	I	—
C5	0.35	BN	341	Run Ignition 3 Voltage	I	—
C6	—	—	—	Not Occupied	—	—
C7	0.35	OG	300	Run Ignition 3 Voltage	I	—
C8 - D3	—	—	—	Not Occupied	—	—
D4	0.5	VT/BK	1639	Run/Crank Ignition 1 Voltage	V	—
D5	0.5 1	D-BU/ BN	6807 141	DC To AC Inverter Control Run Ignition 3 Voltage	V IV	— —
E1	5	RD/BK	1042	Battery Positive Voltage	VII	—
E2	0.8	BK	350	Ground	VI	—
F1	5	BN	541	Run Ignition 3 Voltage	VII	—
F2 - G2	—	—	—	Not Occupied	—	—
G3	0.5 0.8	GY D-BU/WH	5861 1315	Passenger Side Object Detection LED Signal 1 Right Front Turn Signal Lamp Control	V IV	— —
G4	1	RD/WH	340	Battery Positive Voltage	IV	—
G5	—	—	—	Not Occupied	—	—
H1	0.5 0.8	GY/YE L-BU/WH	5853 1314	Driver Side Object Detection LED Signal 1 Left Front Turn Signal Lamp Control	III II	— —
H2	0.8 1	D-BU/WH D-BU/WH	149 149	Courtesy Lamp Control Courtesy Lamp Control	II II	CARGO/ PASSENGER-5BV CUTAWAY-5BV
H3	0.35	BK/WH	351	Signal Ground	I	—
H4	0.35	YE	43	Accessory Ignition Voltage	I	—
H5	0.8	RD/WH	4440	Battery Positive Voltage	II	—
H6	0.35	RD/WH	2840	Battery Positive Voltage	I	—
H7	0.35	RD/WH	540	Battery Positive Voltage	I	—
H8	0.5	RD/WH	5340	Battery Positive Voltage	III	—
J1 - J4	—	—	—	Not Occupied	—	—
J5	1	L-GN/	1624	Trailer Backup Lamp Control	IV	—
K1	—	—	—	Not Occupied	—	—
K2	0.5	YE	356	Driver Door Lock Relay Unlock Control	III	—
K3	0.5	L-BU/	244	Passenger Door Lock Switch Lock Control	III	—
K4	0.35 0.5	L-BU/ L-BU/	244 244	Passenger Door Lock Switch Lock Control Passenger Door Lock Switch Lock Control	I III	AU3+PRP AU3-PRP
K5	0.5 0.35	YE BU	356 244	Driver Door Lock Relay Unlock Control Passenger Door Lock Switch Lock Control	III III	AU3 AU3+PRP
K6	—	—	—	Not Occupied	—	—
K7	0.5	GY/BK	690	Courtesy Lamp Relay Control	III	—
K8	0.35	D-BU/	38	Backup Lamp Relay Control	I	—

cardiagn.com

X52A Fuse Block - Passenger Compartment X2



1581655

Connector Part Information

Harness Type: Body
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575479	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
II	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	C	A
III	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
IV	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	2	A
V	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	E	A
VI	13575753	J-35616-4A (PU)	J-38125-553	Not Available	Not Available	Not Available	Not Available
VII	13575756	J-35616-4A (PU)	J-38125-553	15304713	Delphi 19	F	D
VIII	19367554	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
IX	Not Available	No Tool Required	Not Available	Not Required	Not Required	Not Required	Not Required
X	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not 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	III	—
A4	0.5	BN	2509	Left Rear Park Lamp Control	III	—
A5	0.5	BN	2609	Right Rear Park Lamp Control	III	—

cardiagn.com

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A6	0.5 0.5	RD/VT RD/WH	102 4340	Battery Positive Voltage Battery Positive Voltage	III III	AU3+WRF-DE5/ DEB/DEE DEB/DEE/DE5
A7 - A8	—	—	—	Not Occupied	—	—
B1	3	RD/WH	3540	Battery Positive Voltage	VII	—
B2	3	RD/WH	3540	Battery Positive Voltage	VII	—
B3	1	RD/WH	3240	Battery Positive Voltage	IV	—
B4	0.5	BN	2209	Rear Park Lamp Control	V	—
B5 - C1	—	—	—	Not Occupied	—	—
C2	1	RD/WH	3240	Battery Positive Voltage	II	—
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	II	—
C7	1	YE	618	Left Rear Turn Signal Lamp Control	II	—
C8	0.35	BN/WH	230	Instrument Panel Lamp Dimming Control	I	—
D1	5	PU	293	Rear Defog Element Control	VII	—
D2	5	PU	293	Rear Defog Element Control	VII	—
D3	0.8	OG	2267	Mirror Heating Element Control	IV	—
D4	0.8	OG	2267	Mirror Heating Element Control	IV	—
D5	0.5	RD/GN	3140	Battery Positive Voltage	V	UEU/UFL
E1	—	—	—	Not Occupied	—	—
E2	5	RD/BK	1042	Battery Positive Voltage	VIII	—
F1	5	RD/WH	1740	Battery Positive Voltage	VIII	—
F2	2 5	BN BN	541 541	Run Ignition 3 Voltage Run Ignition 3 Voltage	IV VIII	5B3/5GA 5BV/YF1
G1	3	D-GN	1001	Retained Accessory Power Ignition	VII	—
G2	3	D-GN	1001	Retained Accessory Power Ignition	VII	—
G3	—	—	—	Not Occupied	—	—
G4	1	GY	295	Door Lock Actuator Lock Control	IV	—
G5	1	GY	295	Door Lock Actuator Lock Control	IV	—
H1	—	—	—	Not Occupied	—	—
H2	0.5	BK/BN	6045	Steering Angle Sensor Low Reference	III	—
H3	0.35	BK/WH	351	Signal Ground	III	—
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	X III	UFT -UFT
H6	0.5 0.5	GY/YE L-BU/WH	5853 1314	Driver Side Object Detection LED Signal 1 Left Front Turn Signal Lamp Control	IX III	UFT -UFT
H7	0.5	D-BU/WH	149	Courtesy Lamp Control	III	—
H8	0.5 0.8 1	D-BU/WH D-BU/WH D-BU/WH	149 149 149	Courtesy Lamp Control Courtesy Lamp Control Courtesy Lamp Control	III II II	5BV+CARGO CARGO-5BV PASSENGER
J1	0.8	TN	694	Driver Door Lock Actuator Unlock Control	IV	—
J2	1	TN	294	Door Lock Actuator Unlock Control	IV	—
J3	0.8	TN	294	Door Lock Actuator Unlock Control	IV	—

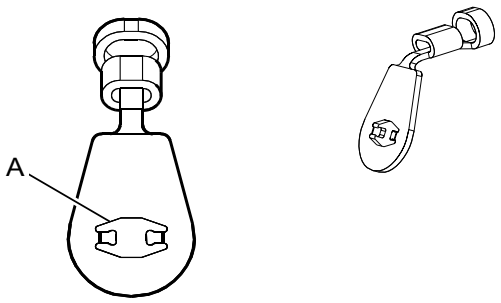
cardiagn.com

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
J4	0.8	TN	294	Door Lock Actuator Unlock Control	IV	—
J5	0.8	GY	295	Door Lock Actuator Lock Control	VI	—
K1 - K2	—	—	—	Not Occupied	—	—
K3	1	TN/BK	1095	Right Rear Door Lock Actuator Unlock Control	II	—
K4 - K6	—	—	—	Not Occupied	—	—
K7	1	TN	294	Door Lock Actuator Unlock Control	II	—
K8	1	L-GN/	24	Backup Lamp Control	II	—

cardiagn.com

X52A Fuse Block - Passenger Compartment X3



4831037

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12160241
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

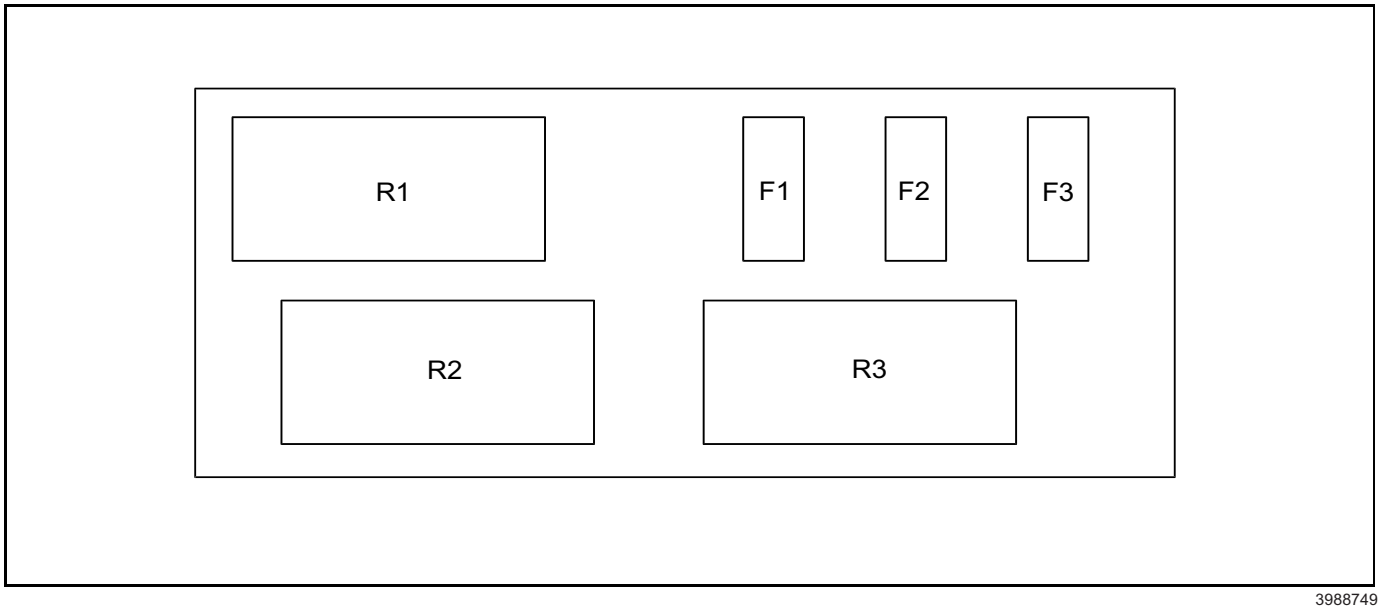
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X52A Fuse Block - Passenger Compartment X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	19	RD	842	Battery Positive Voltage	I	—

X53A Fuse Block - Rear Body Top View (PRP)



3988749

cardiagn.com

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 ACTUATOR	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 ACCESS PANEL RELAY	KR89LR Left Rear Access Panel Relay	—	• M2C Access Panel Unlatch Actuator - Left Rear Side Front • M2D Access Panel Unlatch Actuator - Left Rear Side Rear
R2	LEFT FRONT ACCESS PANEL RELAY	KR89LF Left Front Access Panel Relay	—	• M2A Access Panel Unlatch Actuator - Left Front Side Front • M2B Access Panel Unlatch Actuator - Left Front Side Rear
R3	RIGHT REAR ACCESS PANEL RELAY	KR89RR Right Rear Access Panel Relay	—	• M2E Access Panel Unlatch Actuator - Right Side Front • M2F Access Panel Unlatch Actuator - Right Side Rear

cardiagn.com

X53A Fuse Block - Rear Body

—

Connector Part Information

Harness Type: Rear Body
OEM Connector: 63995
Service Connector: Service by Component Assembly - See Part Catalog
Description: —

Terminal Part Information

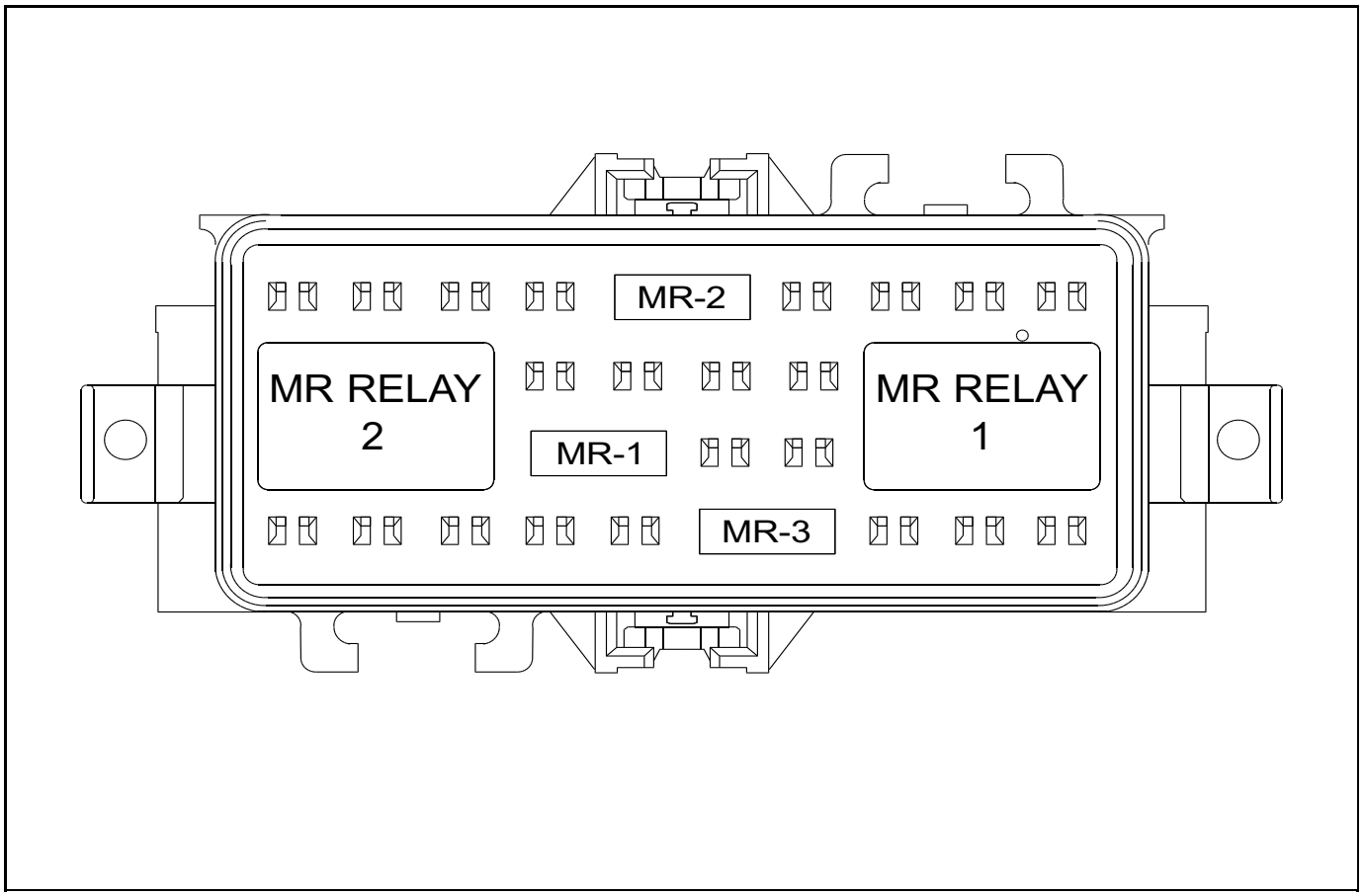
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X53A Fuse Block - Rear Body

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	OG	740	Battery Positive Voltage	I	—
2	0.8	TN	294	Door Lock Actuator Unlock Control	I	—
3	0.5	L-BU/WH	244	Passenger Door Lock Switch Lock Control	I	—
5	0.5	OG	5810	Park Enable Signal	I	—
6	0.8	OG	740	Battery Positive Voltage	I	—
7	0.8	PK	1092	Left Rear Door Lock Actuator Unlock Control	I	—
8	20	L-GN	1391	Left Front Door Lock Relay Control	I	—
10	0.5	OG	5810	Park Enable Signal	I	—
11	0.8	OG	740	Battery Positive Voltage	I	—
12	0.8	TN/BK	1095	Right Rear Door Lock Actuator Unlock Control	I	—
13	0.5	L-BU	1344	Rear Compartment Lid Release Relay Control	I	—
15	0.5	OG	5810	Park Enable Signal	I	—
16	0.8	RD	1732	Electronic Control Unit 12V Reference 3	III	—
17	0.8	D-BU/WH	149	Courtesy Lamp Control	III	—
18	5	RD	1042	Battery Positive Voltage	II	—
19	1	OG	740	Battery Positive Voltage	III	—

cardiagn.com

X54D Fuse Block - Fuel Heater Top View



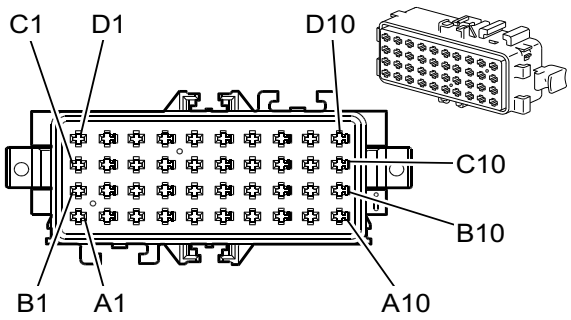
4845613

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	MR-1	F1BA	30A	• E11A Fuel Heater/Water in Fuel Sensor
F2	MR-2	F2BA	30A	• K115 Reductant Control Module
F3	MR-3	F3BA	10A	• K115 Reductant Control Module
Relays				
R1	MR RELAY 1	KR22 Fuel Heater Relay	—	• F1BA
R2	MR RELAY 2	KR121A Reductant Control Module Relay 1	—	• F2BA • F3BA

cardiagn.com

X54D Fuse Block - Fuel Heater



2002692

Connector Part Information

Harness Type: Engine
OEM Connector: 13607200
Service Connector: Service by Component - 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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300440	J-35616-4A (PU)	J-38125-557	Not Required	Not Required	Not Required	Not Required

X54D Fuse Block - Fuel Heater

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1 - A5	—	—	—	Not Occupied	—	—
A6	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	—
A7	2	RD/WH	5440	Battery Positive Voltage	I	—
A8 - A10	—	—	—	Not Occupied	—	—
B1	2.5	RD/YE	2	Battery Positive Voltage	I	—
B2	—	—	—	Not Occupied	—	—
B3	0.5	BU	3017	Fuel Heater Relay Control 1	I	—
B4	2.5	VT/L-GN	355	Fuel Filter Heater Voltage	I	—
B5	2.5	RD/WH	6440	Battery Positive Voltage	I	—
B6 - B7	—	—	—	Not Occupied	—	—
B8	2.5	RD/YE	2	Battery Positive Voltage	I	—
B9	—	—	—	Not Occupied	—	—
B10	0.5	L-GN/D-BU	3889	DEF Power Module Relay Control	I	—
C1	2.5	RD/YE	2	Battery Positive Voltage	I	—
C2	—	—	—	Not Occupied	—	—
C3	2.5	RD/WH	6440	Battery Positive Voltage	I	—
C4 - C7	—	—	—	Not Occupied	—	—
C8	2.5	RD/YE	2	Battery Positive Voltage	I	—
C9	—	—	—	Not Occupied	—	—
C10	2.5	RD/WH	5440	Battery Positive Voltage	I	—

cardiagn.com

X54D Fuse Block - Fuel Heater (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
D1 - D4	—	—	—	Not Occupied	—	—
D5	2.5	BU	3921	DEF Heater Supply 1	I	—
D6	2.5	RD/WH	5440	Battery Positive Voltage	I	—
D7 - D10	—	—	—	Not Occupied	—	—

cardiagn.com

X55AF Fuse Holder - Engine Control Module

—

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 35034412
Service Connector: Service by Component Assembly - See Part Catalog
Description: —

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X55AF Fuse Holder - Engine Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	8	RD	2	Battery Positive Voltage	I	—
2	8	RD	2	Battery Positive Voltage	I	—

cardiagn.com

X55AS Fuse Holder - Rear Body Fuse Block

—

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 35034411
Service Connector: Service by Component Assembly - See Part Catalog
Description: —

Terminal Part Information

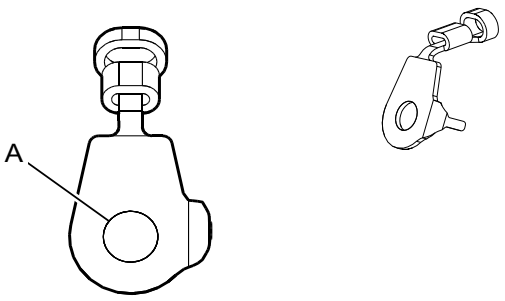
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X55AS Fuse Holder - Rear Body Fuse Block

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	8	RD	2	Battery Positive Voltage	I	—
2	8	RD	2	Battery Positive Voltage	I	—

cardiagn.com

X60A Junction Block - Underhood (L96/LC8)



4831180

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12160208
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

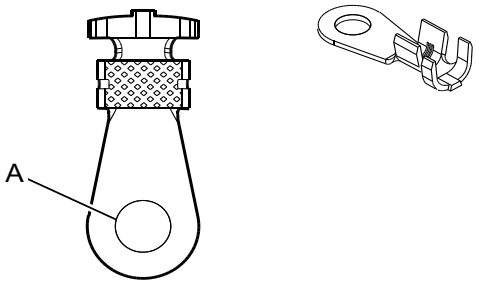
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

X60A Junction Block - Underhood (L96/LC8)

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

cardiagn.com

X60A Junction Block - Underhood (LWN)



4937555

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12103014
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

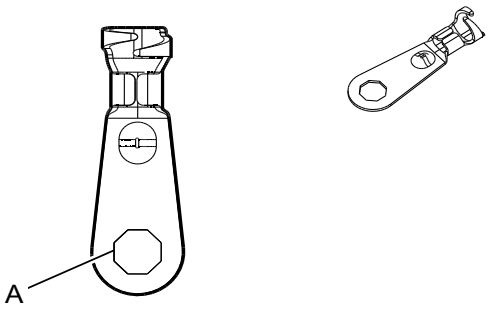
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

X60A Junction Block - Underhood (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	32	RD	1	Unfused Battery Positive Voltage	I	—
	8	RD	2	Battery Positive Voltage		—

cardiagn.com

X60A Junction Block - Underhood (LWN+TP2)



3214043

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12146361
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

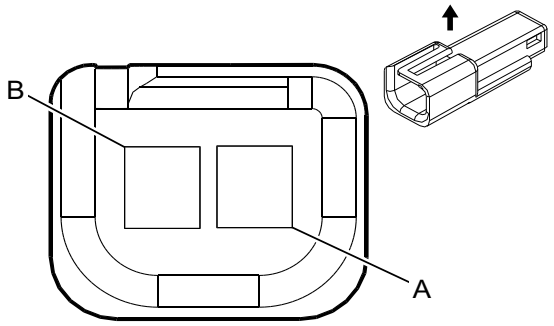
X60A Junction Block - Underhood (LWN+TP2)

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

cardiagn.com

Component Connector End Views

A3L Sunshade - Left



35441

Connector Part Information

Harness Type: Front Headliner
OEM Connector: 12047663
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

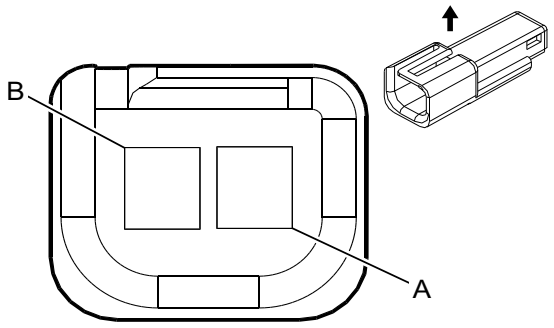
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

A3L Sunshade - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	OG	1732	Electronic Control Unit 12V Reference 3	I	—
B	—	BK	1850	Ground	I	—

cardiagn.com

A3R Sunshade - Right



35441

Connector Part Information

Harness Type: Headliner
OEM Connector: 12047663
Service Connector: 13584278
Description: 2-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

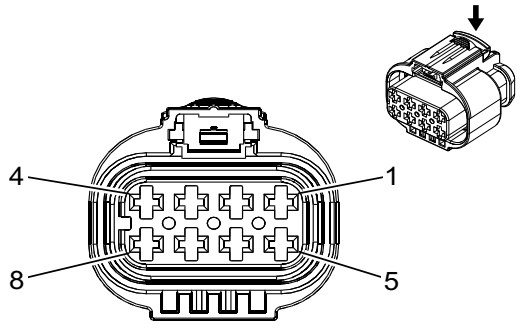
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A3R Sunshade - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	OG	1732	Electronic Control Unit 12V Reference 3	I	DH6+TR9-YFI
	0.8	OG	1732	Electronic Control Unit 12V Reference 3	I	TR9-DH6-5BV
B	0.5	BK	1850	Ground	I	—

cardiagn.com

A7 Fuel Pump and Level Sensor Assembly



3749581

Connector Part Information

Harness Type: Chassis
OEM Connector: 33180017
Service Connector: 19355165
Description: 8-Way F 2.8 Series, Sealed (BK)

Terminal Part Information

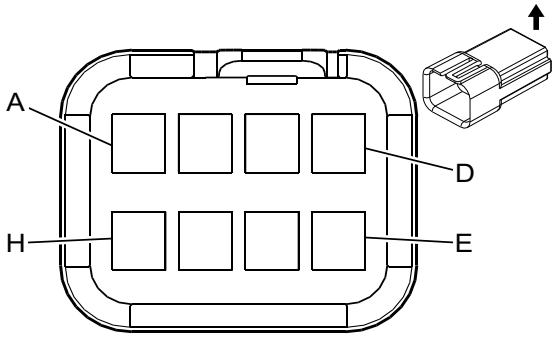
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A7 Fuel Pump and Level Sensor Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	2.5	GY	120	Fuel Pump Control	I	—
4	2.5 2	BK/L-GN BK	1580 150	Fuel Pump Low Reference Ground	I I	LV1/L96/LC8 LWN
5	0.5	BU/VT	1589	Primary Fuel Level Sensor Signal	I	—
6	0.5 0.5	BK/BN BK/L-GN	2759 6281	Fuel Tank Pressure Sensor Low Reference Fuel Level Sensor Low Reference	I I	LV1/L96/LC8 LWN
7 - 8	—	—	—	Not Occupied	—	—

cardiagn.com

A9A Outside Rearview Mirror - Driver



62434

Connector Part Information

Harness Type: Driver Door
OEM Connector: 12065396
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way M 150 Metri-Pack Series (NA)

Terminal Part Information

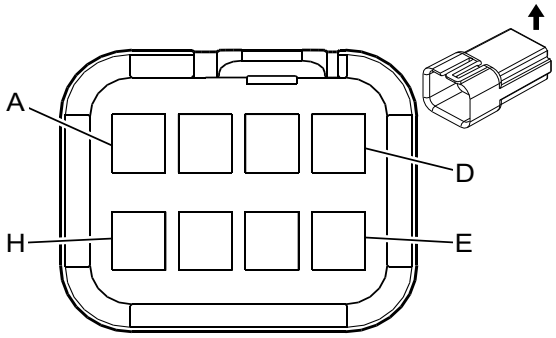
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Avail-able	No Tool Required	Not Available	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A9A Outside Rearview Mirror - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	450	Ground	II	—
B	0.5 0.5	GY/YE L-BU/WH	5853 1314	Driver Side Object Detection LED Signal 1 Left Front Turn Signal Lamp Control	I II	UFT -UFT
C	0.8	OG	2267	Mirror Heating Element Control	II	—
D	0.5	BK	450	Ground	II	—
E	0.35	YE	88	Left Mirror Motor Up Control	II	—
F	0.35	L-GN	89	Left Mirror Motor Down Control	II	—
G	0.35	WH	81	Left Mirror Motor Right Control	II	—
H	0.35	YE	88	Left Mirror Motor Up Control	II	—

cardiagn.com

A9B Outside Rearview Mirror - Passenger



62434

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 12162427
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way M 150 Metri-Pack Series (NA)

Terminal Part Information

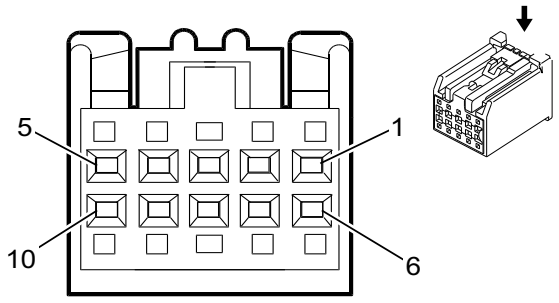
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Avail-able	No Tool Required	Not Available	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A9B Outside Rearview Mirror - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1850	Ground	II	—
B	0.5 0.5	GY D-BU/WH	5861 1315	Passenger Side Object Detection LED Signal 1 Right Front Turn Signal Lamp Control	I II	UFT -UFT
C	0.8	OG	2267	Mirror Heating Element Control	II	—
D	0.5	BK	1850	Ground	II	—
E	0.35	BN/WH	1498	Right Mirror Motor Up Control	II	—
F	0.35	PU/WH	889	Right Mirror Motor Down Control	II	—
G	0.35	OG/WH	881	Right Mirror Motor Right Control	II	—
H	0.35	BN/WH	1498	Right Mirror Motor Up Control	II	—

cardiagn.com

A10 Inside Rearview Mirror (UEU/UFL)



2180211

Connector Part Information

Harness Type: Headliner
OEM Connector: 13815336
Service Connector: 13577390
Description: 10-Way F 0.64 Kaizen Series (BK)

Terminal Part Information

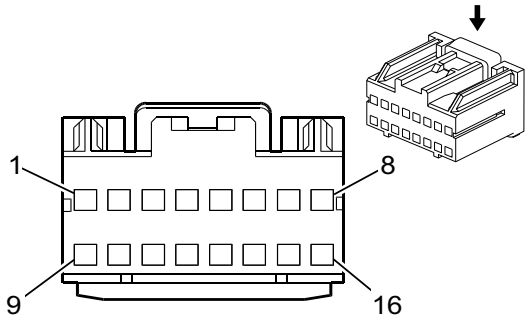
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

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	—
3 - 4	—	—	—	Not Occupied	—	—
5	0.5	BK/WH	351	Signal Ground	I	—
6	0.5	D-BU	7641	Camera Rear Vision Signal +	I	—
7	0.5	WH	7642	Camera Rear Vision Signal (-)	I	—
8 - 10	—	—	—	Not Occupied	—	—

cardiagn.com

A10 Inside Rearview Mirror (-UEU/UFL)



1711009

Connector Part Information

Harness Type: Headliner
OEM Connector: 15441350
Service Connector: 15306351
Description: 16-Way F 100A Micro-Pack Series (BK)

Terminal Part Information

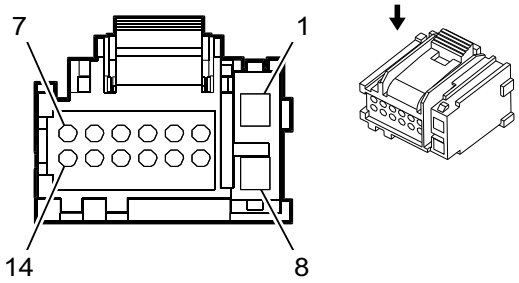
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575548	J-35616-16 (LT GN)	J-38125-559	15445905	Delphi 23	J	J

A10 Inside Rearview Mirror (-UEU/UFL)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 5	—	—	—	Not Occupied	—	—
6	0.5	D-BU	7641	Camera Rear Vision Signal +	I	—
7	0.5	L-BU	7642	Camera Rear Vision Signal (-)	I	—
8	0.5	BK/WH	351	Signal Ground	I	—
9	0.5	L-GN	24	Backup Lamp Control	I	—
10 - 12	—	—	—	Not Occupied	—	—
13	0.5	PK	239	Run/Crank Ignition 1 Voltage	I	—
14 - 16	—	—	—	Not Occupied	—	—

cardiagn.com

A11 Radio X1



2684742

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13545675
Service Connector: 13580448
Description: 14-Way F 0.64 Micro-Pack, 150 GT Series (BK)

Terminal Part Information

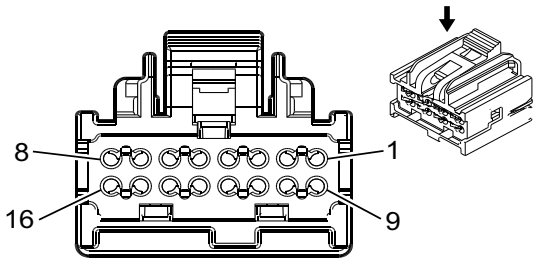
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	C	A
II	13579976	J-35616-64B (LT BU)	J-38125-21	15359541	Delphi 4	M	M
III	13582245	J-35616-64B (LT BU)	J-38125-21	15359541	Delphi 4	M	M

A11 Radio X1

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 (+)	II	—
3	0.8	OG	1853	Right Front Midrange Speaker Control (+)	II	—
4	0.35 0.8	PK GY	5149 655	Voice Recognition Audio Signal Cellular Telephone Microphone Signal	III II	UE1+UI8 UI8-UE1
5	0.35 0.8	PK/BK D-GN/	5152 654	Voice Recognition Audio Low Reference Cellular Telephone Microphone Low Reference	III II	UE1+UI8 UI8-UE1
6	—	—	—	Not Occupied	—	—
7	0.35	YE	6817	LED Backlight Dimming Control	III	—
8	1	BK/WH	351	Signal Ground	I	—
9	0.8	L-BU/	1957	Left Front Midrange Speaker (-) Low Reference	II	—
10	0.8	D-GN/	1953	Right Front Midrange Speaker (-) Low Reference	II	—
11 - 12	—	—	—	Not Occupied	—	—
13	0.35	D-GN/	5060	Low Speed GMLAN Serial Data	III	—
14	—	—	—	Not Occupied	—	—

cardiagn.com

A11 Radio X2



2127936

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13567860
Service Connector: 13504130
Description: 16-Way F 64 Micro-Series, Sealed (PU)

Terminal Part Information

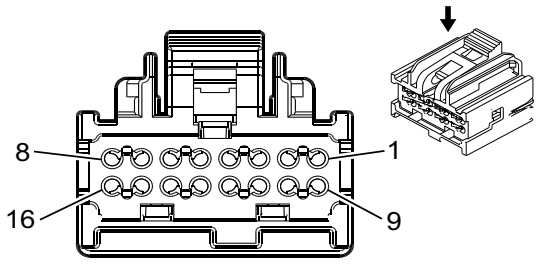
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13579976	J-35616-64B (LT BU)	J-38125-21	15359541	Delphi 4	M	M
II	13582245	J-35616-64B (LT BU)	J-38125-21	15359541	Delphi 4	M	M

A11 Radio X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN/WH	367	Remote Radio Left Audio Signal	II	—
2	0.35	D-GN/WH	368	Remote Radio Right Audio Signal 1	II	—
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	0.35 0.8	D-BU/ D-BU/	658 658	Cellular Telephone Voice Signal Cellular Telephone Voice Signal	II I	UE1+UI8 UE1-UI8
8	—	—	—	Not Occupied	—	—
9	0.35	TN/WH	372	Remote Radio Audio (-) Low Reference	II	—
10	0.35	GY	388	Remote Radio Right Audio Signal 2	II	—
11 - 12	—	—	—	Not Occupied	—	—
13	0.8	WH	1959	Left Rear Midrange Speaker (-) Low Reference	I	—
14	0.8	OG	1955	Right Rear Midrange Speaker (-) Low Reference	I	—
15	0.35 0.8	L-BU/BK L-BU/BK	659 659	Cellular Telephone Voice Low Reference Cellular Telephone Voice Low Reference	II I	UE1+UI8 UE1-UI8
16	—	—	—	Not Occupied	—	—

cardiagn.com

A12 Digital Radio Receiver Control Module X1



2127936

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13568238
Service Connector: 13504130
Description: 16-Way F 64 Micro-Series, Sealed (BK)

Terminal Part Information

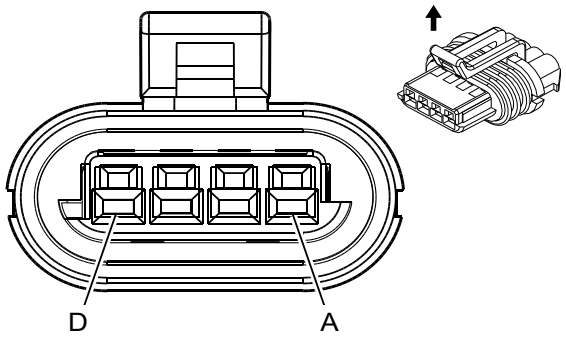
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13579976	J-35616-64B (LT BU)	J-38125-21	15359541	Delphi 4	M	M
II	13582245	J-35616-64B (LT BU)	J-38125-21	15359541	Delphi 4	M	M

A12 Digital Radio Receiver Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	TN/WH	372	Remote Radio Audio (-) Low Reference	II	—
2	0.35	BN/WH	367	Remote Radio Left Audio Signal	II	—
3	0.35	D-GN/WH	368	Remote Radio Right Audio Signal 1	II	—
4	0.35	GY	388	Remote Radio Right Audio Signal 2	II	—
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	II	—
12 - 15	—	—	—	Not Occupied	—	—
16	0.8	RD/WH	340	Battery Positive Voltage	I	—

cardiagn.com

A23D Door Latch Assembly - Driver X1



684948

Connector Part Information

Harness Type: Driver Door
OEM Connector: 15354716
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

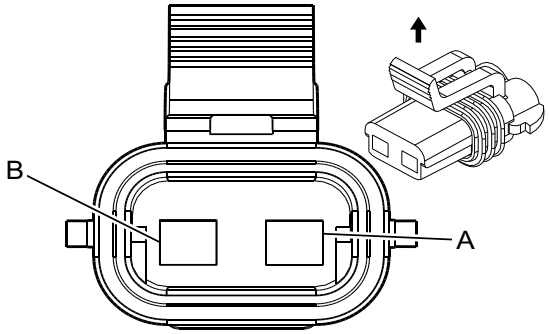
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23D Door Latch Assembly - Driver X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	TN	126	Left Front Door Open Switch Signal	I	—
B	0.35	GY/BK	745	Left Front Door Ajar Switch Signal	I	—
C	—	—	—	Not Occupied	—	—
D	0.35	BK	450	Ground	I	—

cardiagn.com

A23D Door Latch Assembly - Driver X2



68721

Connector Part Information

Harness Type: Driver Door
OEM Connector: 15300027
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

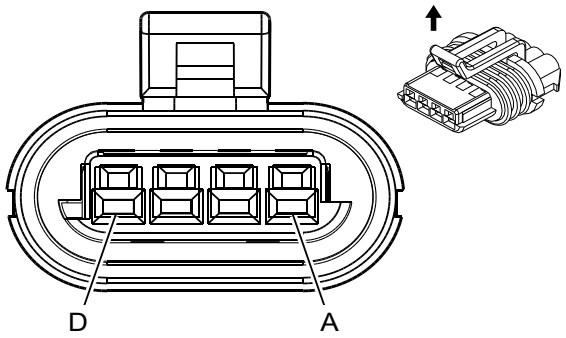
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23D Door Latch Assembly - Driver X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	694	Driver Door Lock Actuator Unlock Control	I	—
B	0.8	GY	295	Door Lock Actuator Lock Control	I	—

cardiagn.com

A23P Door Latch Assembly - Passenger X1



684948

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 15354716
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

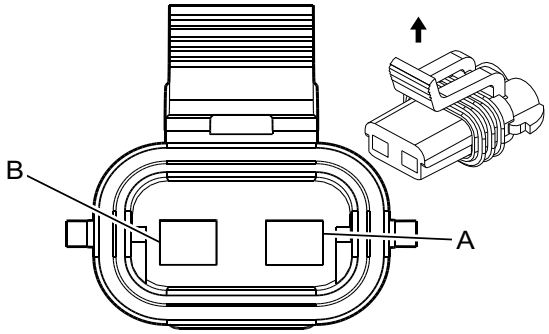
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23P Door Latch Assembly - Passenger X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	1850	Ground	I	—
B	—	—	—	Not Occupied	—	—
C	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	—

cardiagn.com

A23P Door Latch Assembly - Passenger X2



68721

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 15300027
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

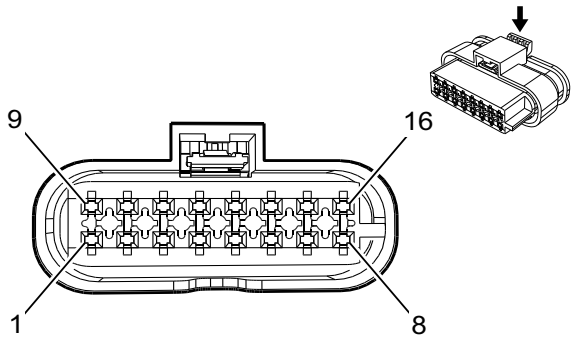
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23P Door Latch Assembly - Passenger X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	294	Door Lock Actuator Unlock Control	I	—
B	0.8	GY	295	Door Lock Actuator Lock Control	I	—

cardiagn.com

A39 Reductant Fluid Reservoir Assembly



4259227

Connector Part Information

Harness Type: Emission Reductant Fluid Tank Reservoir
OEM Connector: 805-587-541
Service Connector: Service by Harness - See Part Catalog
Description: 16-Way F 1.2 Multilock Series (BK)

Terminal Part Information

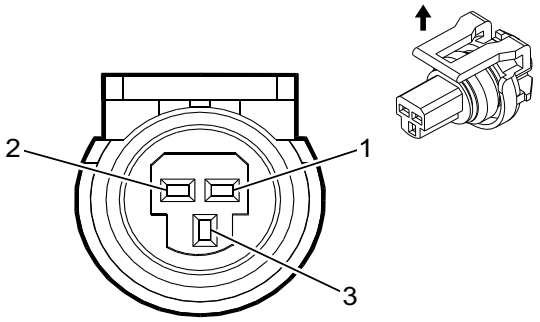
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

A39 Reductant Fluid Reservoir Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	OG	3244	DEF Tank Temperature Sensor Signal	I	—
2	—	GN	3245	DEF Tank Temperature Sensor Low Reference	I	—
3	—	YE	3107	DEF Pressure Sensor Low Reference	I	—
4	—	GY	3108	DEF Pressure Sensor Signal	I	—
5	—	BU	3106	DEF Pressure Sensor 5V Reference	I	—
6	—	VT	3029	DEF Tank Level Sensor Low Reference	I	—
7	—	BU	3876	DEF Smart Pump Control Phase 3	I	—
8	—	GN	3875	DEF Smart Pump Control Phase 2	I	—
9	—	YE	3921	DEF Heater Supply 1	I	—
10	—	—	—	Not Occupied	—	—
11	—	VT	4318	DEF Tank Heater Low Control	I	—
12	—	—	—	Not Occupied	—	—
13	—	VT	6136	Control	I	—
14	—	BU	3028	DEF Tank Level Sensor Signal	I	—
15	—	BK	3104	DEF Smart Pump Low Reference	I	—
16	—	OG	3103	DEF Smart Pump Control	I	—

cardiagn.com

B1 A/C Refrigerant Pressure Sensor



2909191

Connector Part Information

Harness Type: Engine
OEM Connector: 13846842
Service Connector: 19368669
Description: 3-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

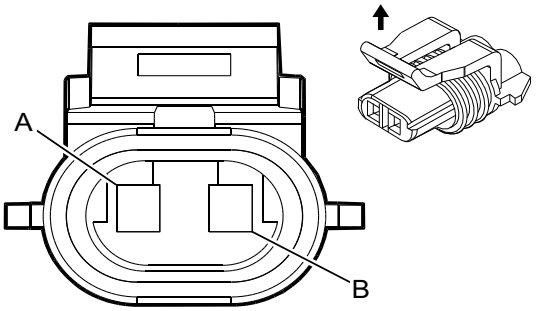
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B1 A/C Refrigerant Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/BN	5514	A/C Refrigerant Pressure Sensor Low Reference	I	C60+LV1
	0.8	TN	5514	A/C Refrigerant Pressure Sensor Low Reference	I	C60+LWN
2	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	I	C60+LV1
	0.8	GY	2700	A/C Pressure Sensor 5V Reference	I	C60+LWN
3	0.5	L-GN/	380	A/C Refrigerant Pressure Sensor Signal	I	C60+LV1
	0.8	OG/BK	380	A/C Refrigerant Pressure Sensor Signal	I	C60+LWN

cardiagn.com

B1B A/C Low Side Pressure Switch



537107

Connector Part Information

Harness Type: Engine
OEM Connector: 12052644
Service Connector: 19368034
Description: 2-Way F 150 Metri-Pack Series, Sealed (GY)

Terminal Part Information

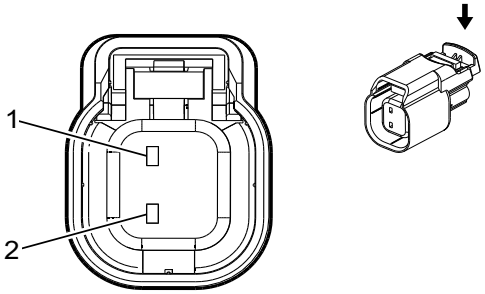
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B1B A/C Low Side Pressure Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN	66	A/C Request Signal	I	—
B	0.5	L-GN/WH	66	A/C Request Signal	I	—

cardiagn.com

B5LF Wheel Speed Sensor - Left Front



2792100

Connector Part Information

Harness Type: Chassis
OEM Connector: 13828712
Service Connector: 19352068
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

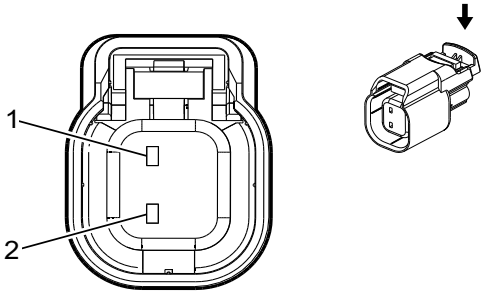
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B5LF Wheel Speed Sensor - Left Front

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

cardiagn.com

B5LR Wheel Speed Sensor - Left Rear



2792100

Connector Part Information

Harness Type: Chassis
OEM Connector: 13828712
Service Connector: 19352068
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

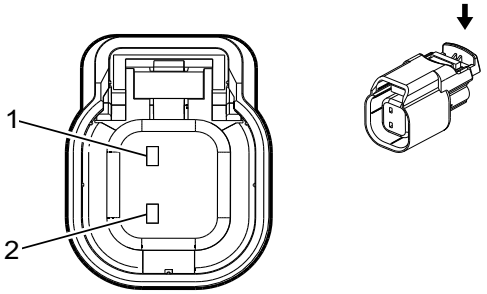
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B5LR Wheel Speed Sensor - Left Rear

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

cardiagn.com

B5RF Wheel Speed Sensor - Right Front (LWN)



2792100

Connector Part Information

Harness Type: Engine
OEM Connector: 13828712
Service Connector: 19352068
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

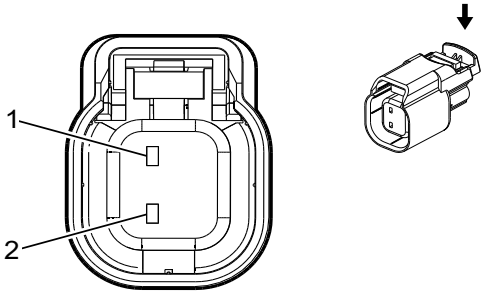
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B5RF Wheel Speed Sensor - Right Front (LWN)

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

cardiagn.com

B5RF Wheel Speed Sensor - Right Front (-LWN)



2792100

Connector Part Information

Harness Type: Chassis
OEM Connector: 13828712
Service Connector: 19352068
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

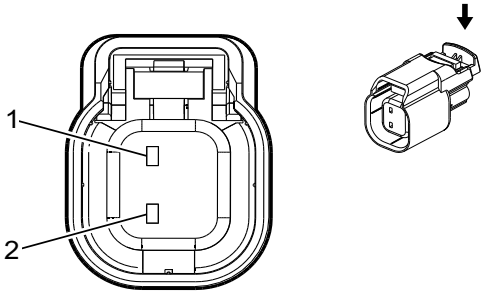
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B5RF Wheel Speed Sensor - Right Front (-LWN)

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

cardiagn.com

B5RR Wheel Speed Sensor - Right Rear



2792100

Connector Part Information

Harness Type: Chassis
OEM Connector: 13828712
Service Connector: 19352068
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

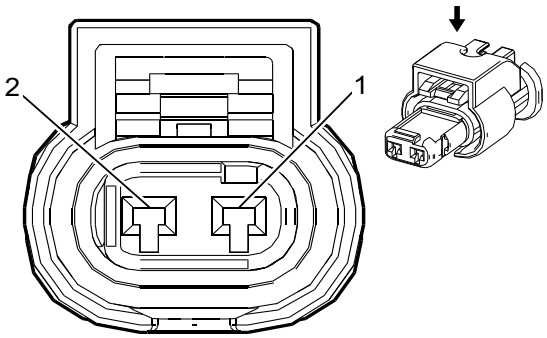
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B5RR Wheel Speed Sensor - Right Rear

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

cardiagn.com

B9 Ambient Air Temperature Sensor (LV1)



2474752

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13927761
Service Connector: 19329415
Description: 2-Way F 1.2 MCP Series, Sealed (BK)

Terminal Part Information

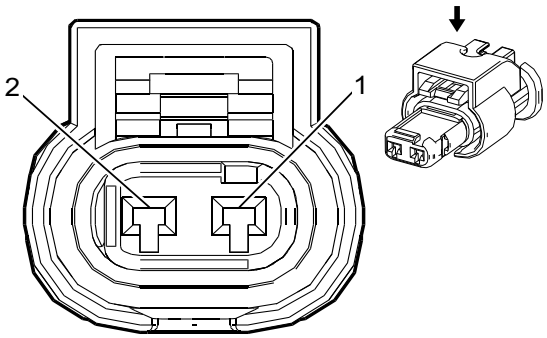
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B9 Ambient Air Temperature Sensor (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/BK	735	Outside Ambient Air Temperature Sensor Signal	I	—
2	0.5	BK/YE	407	Sensor Low Reference	I	—

cardiagn.com

B9 Ambient Air Temperature Sensor (LWN)



2474752

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13927761
Service Connector: 19329415
Description: 2-Way F 1.2 MCP Series, Sealed (BK)

Terminal Part Information

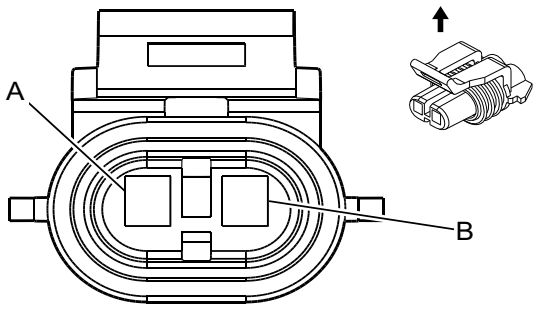
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B9 Ambient Air Temperature Sensor (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN/BK	735	Outside Ambient Air Temperature Sensor Signal	I	—
2	0.5	BK/YE	407	Sensor Low Reference	I	—

cardiagn.com

B9 Ambient Air Temperature Sensor (UFA)



684793

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 12052642
Service Connector: 12101856
Description: 2-Way F 150 Metri-Pack Series, Sealed (L-GN)

Terminal Part Information

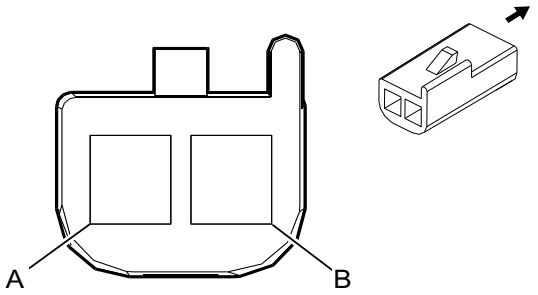
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B9 Ambient Air Temperature Sensor (UFA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BU/GY	636	Outside Ambient Air Temperature Sensor Signal	I	UFA
B	0.5	BK/D-BU	61	Outside Ambient Temperature Sensor Low Reference	I	UFA

cardiagn.com

B10 Ambient Light Sensor



82383

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12047662
Service Connector: 12085535
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

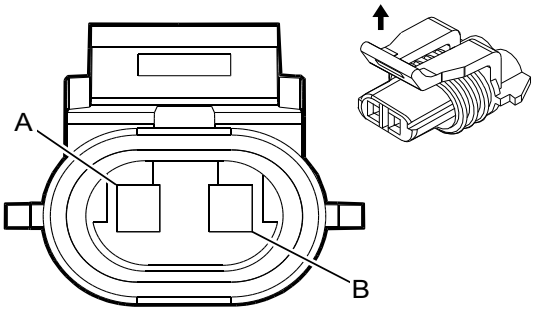
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B10 Ambient Light Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	WH	278	Ambient Light Sensor Signal	I	—
B	0.35	BK/WH	351	Signal Ground	I	—

cardiagn.com

B13 Transmission Fluid Temperature Sensor



537107

Connector Part Information

Harness Type: Engine
OEM Connector: 12052644
Service Connector: 19368034
Description: 2-Way F 150 Metri-Pack Series, Sealed (GY)

Terminal Part Information

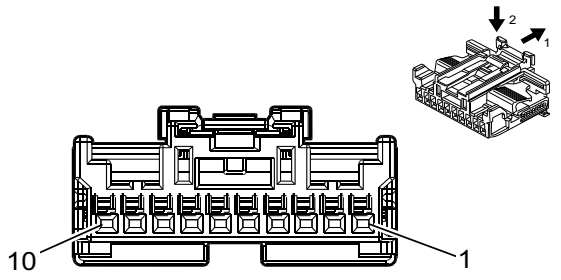
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B13 Transmission Fluid Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1250	Ground	I	—
B	0.8	D-GN	29	Horn Control	I	—

cardiagn.com

B15 Transmission Internal Mode Switch (M5U)



4051038

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 2291594-1
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 0.64 Generation Y Series (BN)

Terminal Part Information

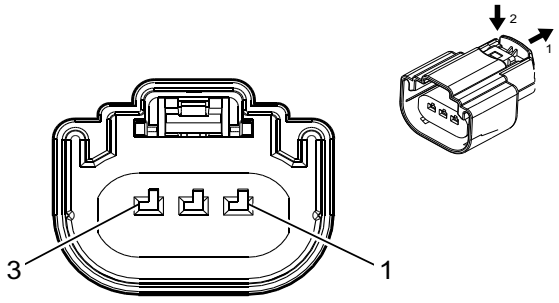
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B15 Transmission Internal Mode Switch (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	OG/BK	1786	Transmission Park/Neutral Signal 1	I	—
2	—	WH/BK	3927	IMS Mode Switch Low Reference	I	—
3	—	—	—	Not Occupied	—	—
4	—	VT	4171	Transmission Position Sensor A 9V Reference	I	—
5	—	VT/WH	5981	PRNDL A Signal	I	—
6	—	OG/BK	5983	PRNDL C Signal	I	—
7	—	PK	4169	PRNDL S Signal	I	—
8	—	PK/BK	5982	PRNDL B Signal	I	—
9	—	GY	4168	PRNDL P Signal	I	—
10	—	VT/WH	4170	Transmission Position Sensor B 9V Reference	I	—

cardiagn.com

B18 Battery Current Sensor



4569745

Connector Part Information

Harness Type: Engine
OEM Connector: 33343869
Service Connector: 19179750
Description: 3-Way F 150 MX Series, Sealed (BK)

Terminal Part Information

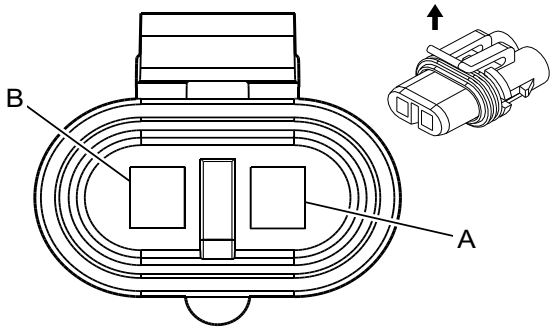
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B18 Battery Current Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	PK	5076	Current Sensor Control	I	—
2	0.5	BN	5077	Current Sensor Low Reference	I	—
3	0.5	WH	5075	Current Sensor Signal	I	—

cardiagn.com

B19A Brake Booster Fluid Pressure Alarm Switch



646148

Connector Part Information

Harness Type: Brake Fluid Level Switch
OEM Connector: 12020599
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

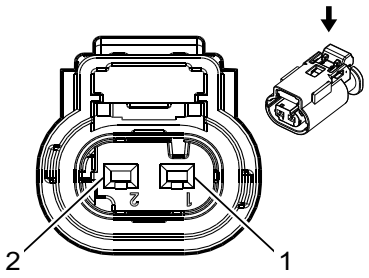
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B19A Brake Booster Fluid Pressure Alarm Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	TN/WH	33	Brake Warning Indicator Control	I	—
B	0.5	L-BU/BK	1928	Brake Booster Fluid Flow Switch Signal	I	—

cardiagn.com

B20 Brake Fluid Level Switch



2717066

Connector Part Information

Harness Type: Engine
OEM Connector: 13735326
Service Connector: 13587326
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

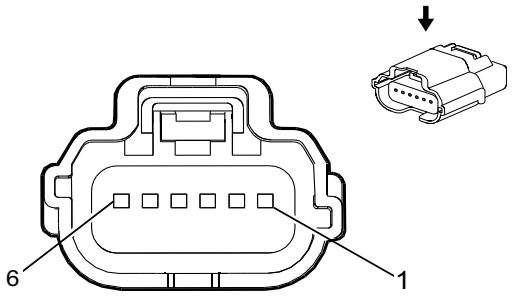
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B20 Brake Fluid Level Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/WH	1551	Signal Ground	I	L96/LC8
	0.8	BK/WH	1551	Signal Ground	I	LV1
	0.75	BK/WH	1551	Signal Ground	I	LWN
2	0.75	L-GN/GY	333	Brake Fluid Level Sensor Signal	I	—

cardiagn.com

B22 Brake Pedal Position Sensor



3270302

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13893502
Service Connector: 19304011
Description: 6-Way F 64 Series, Sealed (NA)

Terminal Part Information

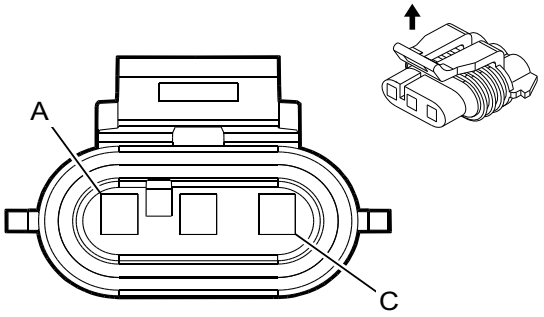
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	—

cardiagn.com

B23 Camshaft Position Sensor (L96/LC8)



516611

Connector Part Information

Harness Type: Camshaft Position Sensor Jumper
OEM Connector: 12059595
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 150 Metri-Pack Series, Sealed (BK)

Terminal Part Information

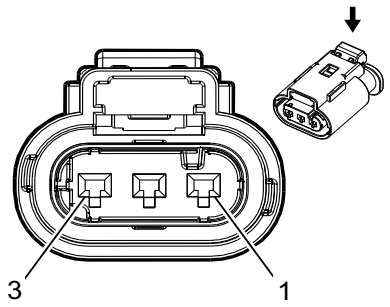
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B23 Camshaft Position Sensor (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU	6259	Camshaft CAM W Control	I	—
B	0.8	BN	6266	Camshaft CAM W Ground	I	—
C	0.8	D-BU/WH	6265	Camshaft CAM W Signal	I	—

cardiagn.com

B23 Camshaft Position Sensor (LV1)



2717069

Connector Part Information

Harness Type: Camshaft Position Sensor Jumper
OEM Connector: 13763990
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

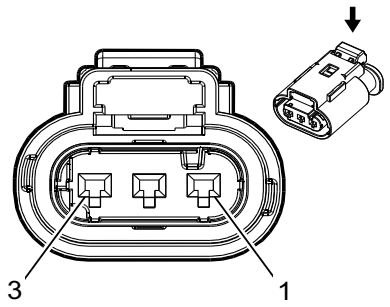
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B23 Camshaft Position Sensor (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/D-BU	5300	Camshaft Position Intake Sensor Control 1	I	—
2	0.5	BK/L-GN	5301	Camshaft Position Intake Sensor Low Reference 1	I	—
3	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	I	—

cardiagn.com

B23 Camshaft Position Sensor (LWN)



2717069

Connector Part Information

Harness Type: Engine
OEM Connector: 13763990
Service Connector: 19299690
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

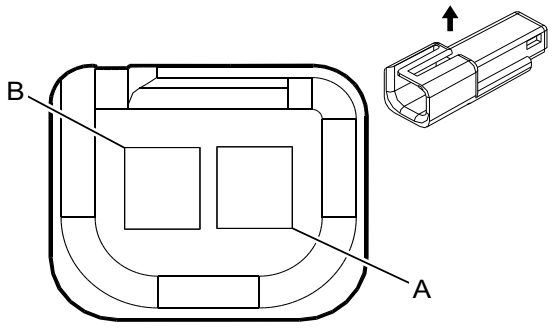
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B23 Camshaft Position Sensor (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/D-BU	5300	Camshaft Position Intake Sensor Control 1	I	—
2	0.5	BK/L-GN	5301	Camshaft Position Intake Sensor Low Reference 1	I	—
3	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	I	—

cardiagn.com

B24 Mobile Telephone Microphone



35441

Connector Part Information

Harness Type: Headliner
OEM Connector: 12047663
Service Connector: 13584278
Description: 2-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

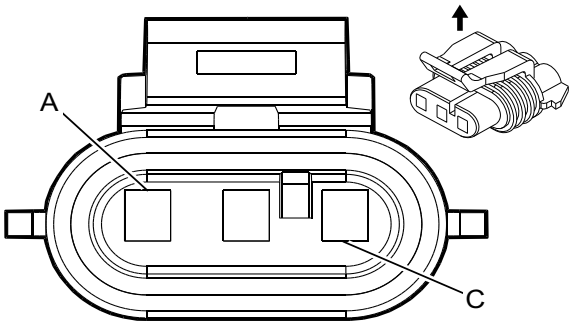
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B24 Mobile Telephone Microphone

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-GN	654	Cellular Telephone Microphone Low Reference	I	—
B	0.8	GY	655	Cellular Telephone Microphone Signal	I	—

cardiagn.com

B26 Crankshaft Position Sensor (L96/LC8)



684840

Connector Part Information

Harness Type: Engine
OEM Connector: 12129946
Service Connector: 88987997
Description: 3-Way F 150 Metri-Pack Series, Sealed (GY)

Terminal Part Information

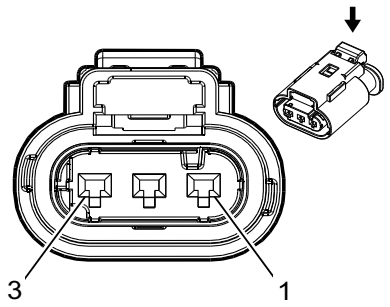
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B26 Crankshaft Position Sensor (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	WH/BK	6271	Crankshaft 60X Sensor Signal	I	—
B	0.8	GY/BK	6272	Crankshaft 60X Sensor Low Reference	I	LV1
C	0.8	PU/WH	6270	Crankshaft 60X Sensor 5V Reference	I	—

cardiagn.com

B26 Crankshaft Position Sensor (LWN/LV1)



2717069

Connector Part Information

Harness Type: Engine
OEM Connector: 13763990
Service Connector: 19299690
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

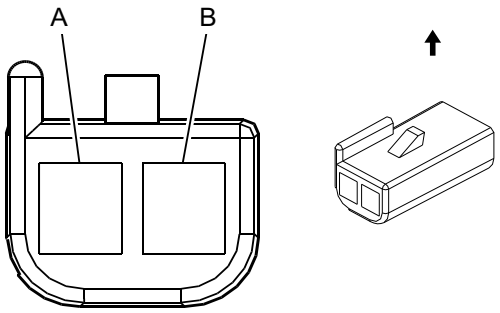
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B26 Crankshaft Position Sensor (LWN/LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	6271	Crankshaft 60X Sensor Signal	I	LV1
	0.5	VT/D-BU	6270	Crankshaft 60X Sensor 5V Reference	I	LWN
2	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	I	—
3	0.5	VT/D-BU	6270	Crankshaft 60X Sensor 5V Reference	I	LV1
	0.5	L-GN	6271	Crankshaft 60X Sensor Signal	I	LWN

cardiagn.com

B28F Door Ajar Switch - Right Sliding



35451

Connector Part Information

Harness Type: Body
OEM Connector: 12059251
Service Connector: 12101848
Description: 2-Way F 150 Metri-Pack Series (RD)

Terminal Part Information

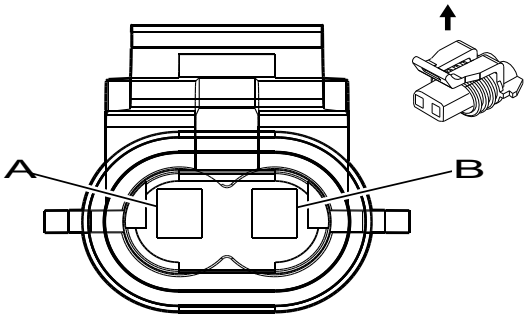
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B28F Door Ajar Switch - Right Sliding

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	1850	Ground	I	—
B	0.35	YE/BK	1181	Right Rear Door Open Switch Signal	I	—

cardiagn.com

B33 Engine Coolant Level Switch



655783

Connector Part Information

Harness Type: Engine
OEM Connector: 15324243
Service Connector: 19368034
Description: 2-Way F 150 Metri-Pack Series, Sealed (GY)

Terminal Part Information

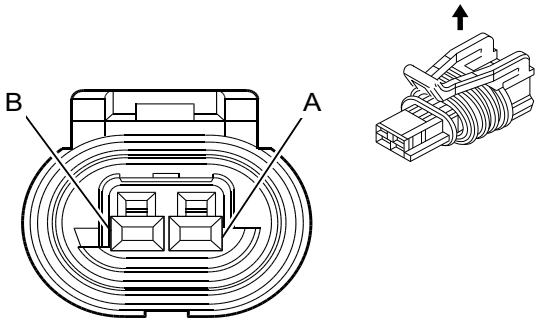
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B33 Engine Coolant Level Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN	1478	Coolant Level Switch Signal	I	—
B	0.5	BK/WH	351	Signal Ground	I	—

cardiagn.com

B34 Engine Coolant Temperature Sensor (L96/LC8)



1538760

Connector Part Information

Harness Type: Engine
OEM Connector: 15449028
Service Connector: 88987993
Description: 2-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

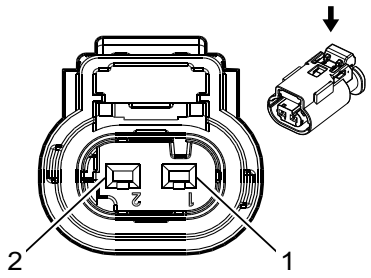
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B34 Engine Coolant Temperature Sensor (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	2761	Coolant Temperature Sensor Low Reference	I	—
B	0.8	YE	410	Engine Coolant Temperature Sensor Signal	I	—

cardiagn.com

B34 Engine Coolant Temperature Sensor (LV1)



2717066

Connector Part Information

Harness Type: Engine
OEM Connector: 13735326
Service Connector: 13587326
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

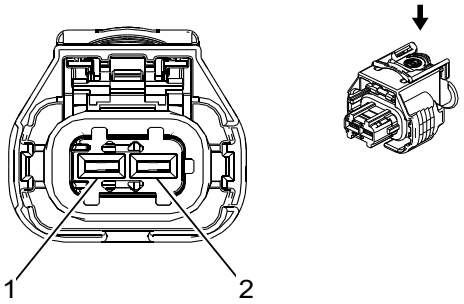
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	I	—
2	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	—

cardiagn.com

B34 Engine Coolant Temperature Sensor (LWN)



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 13930085
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

Terminal Part Information

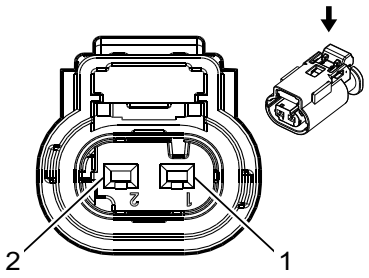
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B34 Engine Coolant Temperature Sensor (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/	410	Engine Coolant Temperature Sensor Signal	I	—
2	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	—

cardiagn.com

B35 Engine Oil Level Switch (LV1)



2717066

Connector Part Information

Harness Type: Engine
OEM Connector: 13735326
Service Connector: 13587326
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

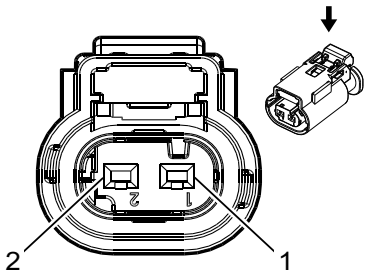
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B35 Engine Oil Level Switch (LV1)

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

cardiagn.com

B35 Engine Oil Level Switch (LWN)



2717066

Connector Part Information

Harness Type: Engine
OEM Connector: 13735326
Service Connector: 13587326
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

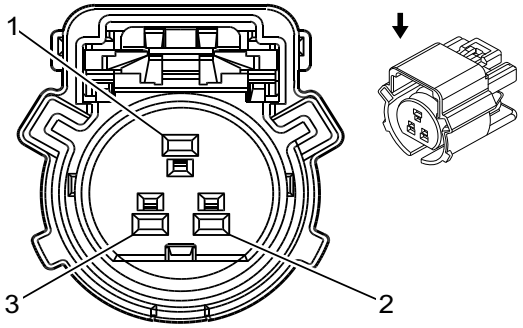
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B35 Engine Oil Level Switch (LWN)

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

cardiagn.com

B37B Engine Oil Pressure Sensor (L96/LC8)



2159957

Connector Part Information

Harness Type: Engine
OEM Connector: 13589761
Service Connector: 19368110
Description: 3-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

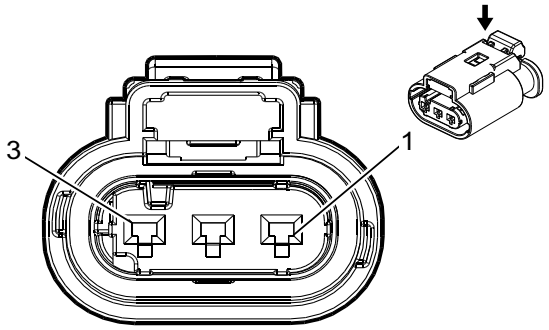
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B37B Engine Oil Pressure Sensor (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	TN/WH	331	Oil Pressure Sensor Signal	I	—
2	0.8	GY	2705	Oil Pressure Sensor 5V Reference	I	—
3	0.8	BK	2755	Oil Pressure Sensor Low Reference	I	—

cardiagn.com

B37B Engine Oil Pressure Sensor (LWN/LV1)



3240107

Connector Part Information

Harness Type: Engine
OEM Connector: 13889776
Service Connector: 19301717
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

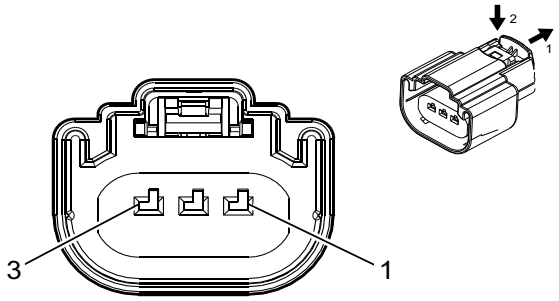
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B37B Engine Oil Pressure Sensor (LWN/LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BN	331	Oil Pressure Sensor Signal	I	—
2	0.5	BK/VT	2755	Oil Pressure Sensor Low Reference	I	—
3	0.5	WH/RD	2705	Oil Pressure Sensor 5V Reference	I	—

cardiagn.com

B47 Fuel Pressure Sensor (CUTAWAY)



4569745

Connector Part Information

Harness Type: Chassis
OEM Connector: 33343869
Service Connector: 19179750
Description: 3-Way F 150 MX Series, Sealed (BK)

Terminal Part Information

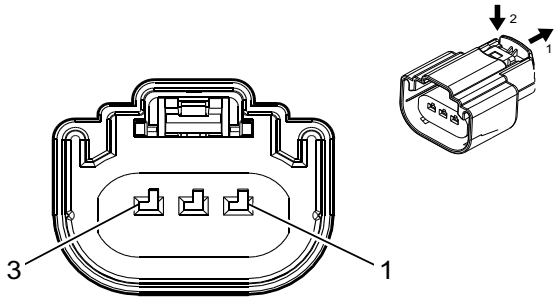
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B47 Fuel Pressure Sensor (CUTAWAY)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU/WH	7446	Fuel Line Pressure Sensor Signal	I	-335/LWN
	0.5	BN/RD	7445	Fuel Line Pressure Sensor 5V Reference	II	335-LWN
2	0.5	BK/YE	7447	Fuel Line Pressure Sensor Low Reference	I	-335/LWN
	0.5	BK/YE	7447	Fuel Line Pressure Sensor Low Reference	II	335-LWN
3	0.5	BN/RD	7445	Fuel Line Pressure Sensor 5V Reference	I	-335/LWN
	0.5	BU/WH	7446	Fuel Line Pressure Sensor Signal	II	335-LWN

cardiagn.com

B47 Fuel Pressure Sensor (-CUTAWAY)



4569745

Connector Part Information

Harness Type: Chassis
OEM Connector: 33343869
Service Connector: 19179750
Description: 3-Way F 150 MX Series, Sealed (BK)

Terminal Part Information

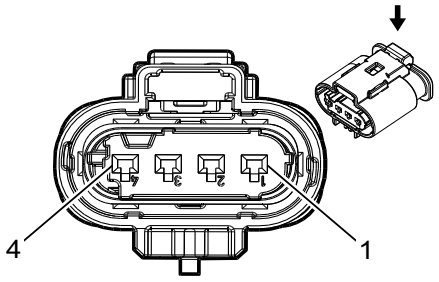
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B47 Fuel Pressure Sensor (-CUTAWAY)

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

cardiagn.com

B47B Fuel Rail Pressure Sensor (LWN)



2717079

Connector Part Information

Harness Type: Engine
OEM Connector: 13815341
Service Connector: 13587299
Description: 4-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

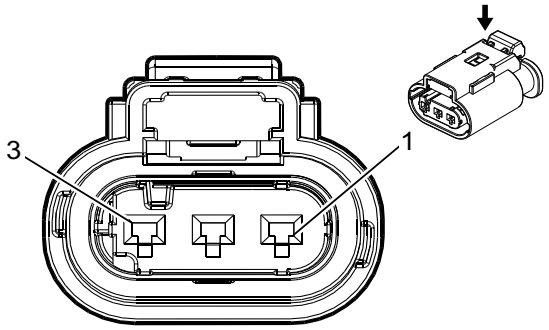
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B47B Fuel Rail Pressure Sensor (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	I	—
2	0.5	BN/YE	2161	Fuel Rail Pressure Sensor 2 Signal	I	—
3	0.5	BK/L-GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—
4	0.5	D-BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	—

cardiagn.com

B47B Fuel Rail Pressure Sensor (LV1)



3240107

Connector Part Information

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

Terminal Part Information

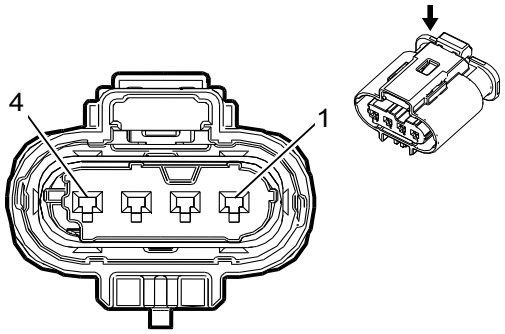
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B47B Fuel Rail Pressure Sensor (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/L-GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—
2	0.5	D-BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	—
3	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	I	—

cardiagn.com

B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (L96/LC8)



3240113

Connector Part Information

Harness Type: Engine
OEM Connector: 13869004
Service Connector: 19301716
Description: 4-Way F 1.2 Multilock Series, Sealed (D-GY)

Terminal Part Information

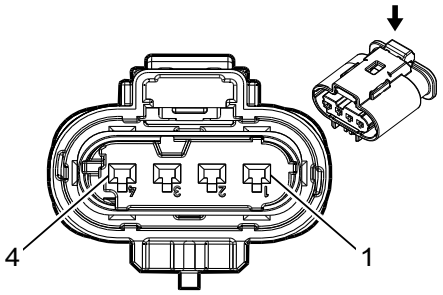
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 1	I	—
2	0.8	PK	539	Run/Crank Ignition 1 Voltage	I	—
3	0.8	TN	1664	Heated Oxygen Sensor Low Signal Bank 1 Sensor 1	I	—
4	0.8	PU/WH	1665	Heated Oxygen Sensor High Signal Bank 1 Sensor 1	I	—

cardiagn.com

B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (LV1)



2717096

Connector Part Information

Harness Type: Engine
OEM Connector: 13815348
Service Connector: 13587298
Description: 4-Way F 1.2 Multilock Series, Sealed (L-GY)

Terminal Part Information

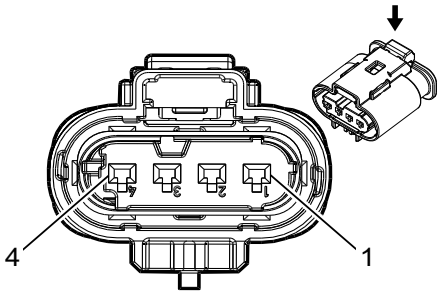
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BN	3223	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 2	I	—
2	0.5	VT/WH	1539	Run/Crank Ignition 1 Voltage	I	—
3	0.5	YE/D-BU	3221	Heated Oxygen Sensor Low Signal Bank 2 Sensor 2	I	—
4	0.5	VT/L-GN	3220	Heated Oxygen Sensor High Signal Bank 2 Sensor 2	I	—

cardiagn.com

B52D Heated Oxygen Sensor - Bank 1 Sensor 2



2717096

Connector Part Information

Harness Type: Engine
OEM Connector: 13815348
Service Connector: 13587298
Description: 4-Way F 1.2 Multilock Series, Sealed (L-GY)

Terminal Part Information

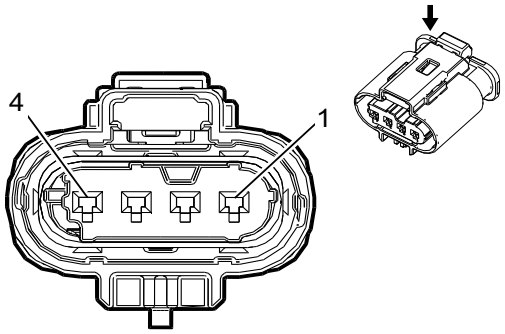
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B52D Heated Oxygen Sensor - Bank 1 Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	L96/LC8
	0.8	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	LV1
2	0.8	PK/	1539	Run/Crank Ignition 1 Voltage	I	L96/LC8
	0.5	VT/WH	1539	Run/Crank Ignition 1 Voltage	I	LV1
3	0.8	TN/WH	1669	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	L96/LC8
	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	LV1
4	0.8	PU/WH	1668	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	L96/LC8
	0.5	VT/D-BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	LV1

cardiagn.com

B52E Heated Oxygen Sensor - Bank 2 Sensor 1



3240113

Connector Part Information

Harness Type: Engine
OEM Connector: 13869004
Service Connector: 19301716
Description: 4-Way F 1.2 Multilock Series, Sealed (D-GY)

Terminal Part Information

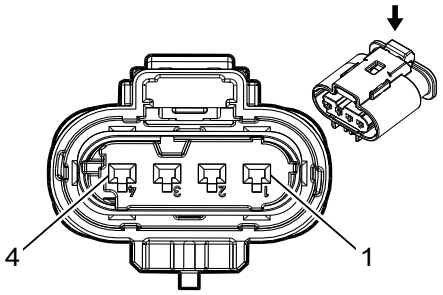
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B52E Heated Oxygen Sensor - Bank 2 Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	3212	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 1	I	L96/LC8
	0.5	L-GN	3212	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 1	I	LV1
2	0.5	PK	539	Run/Crank Ignition 1 Voltage	I	L96/LC8
	0.5	VT/GY	539	Run/Crank Ignition 1 Voltage	I	LV1
3	0.5	TN	1667	Heated Oxygen Sensor Low Signal Bank 2 Sensor 1	I	L96/LC8
	0.5	YE/WH	3211	Heated Oxygen Sensor Low Signal Bank 2 Sensor 1	I	LV1
4	0.5	PU/	1666	Heated Oxygen Sensor High Signal Bank 2 Sensor 1	I	L96/LC8
	0.5	VT/WH	3210	Heated Oxygen Sensor High Signal Bank 2 Sensor 1	I	LV1

cardiagn.com

B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (L96/LC8)



2717096

Connector Part Information

Harness Type: Engine
OEM Connector: 13815348
Service Connector: 13587298
Description: 4-Way F 1.2 Multilock Series, Sealed (L-GY)

Terminal Part Information

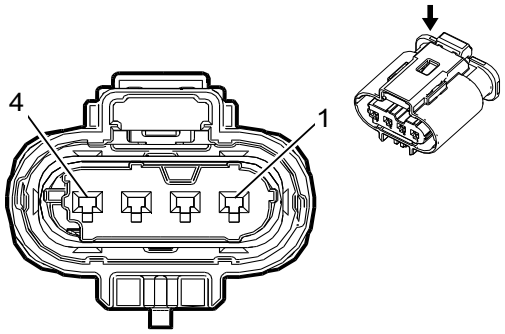
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	OG/WH	3223	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 2	I	—
2	0.8	PK	1539	Run/Crank Ignition 1 Voltage	I	—
3	0.8	TN	1671	Heated Oxygen Sensor Low Signal Bank 2 Sensor 2	I	—
4	0.8	PU/	1670	Heated Oxygen Sensor High Signal Bank 2 Sensor 2	I	—

cardiagn.com

B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (LV1)



3240113

Connector Part Information

Harness Type: Engine
OEM Connector: 13869004
Service Connector: 19301716
Description: 4-Way F 1.2 Multilock Series, Sealed (D-GY)

Terminal Part Information

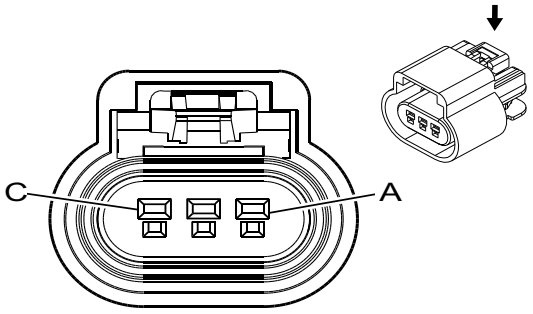
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BN	3223	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 2	I	—
2	0.5	VT/GY	539	Run/Crank Ignition 1 Voltage	I	—
3	0.5	YE/D-BU	3221	Heated Oxygen Sensor Low Signal Bank 2 Sensor 2	I	—
4	0.5	VT/L-GN	3220	Heated Oxygen Sensor High Signal Bank 2 Sensor 2	I	—

cardiagn.com

B55 Engine Hood Switch



646415

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13519047
Service Connector: 19368886
Description: 3-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

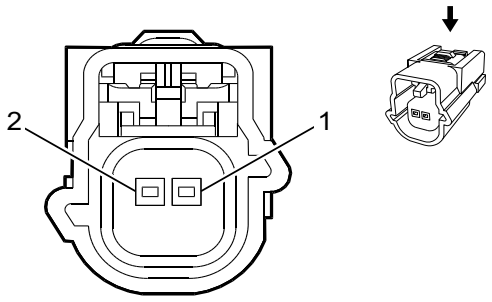
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B55 Engine Hood Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	PK/BK	109	Hood Ajar Switch Signal	I	BTV
B	0.5	VT/BN	5531	Hood Closed Switch Signal	I	BTV
C	0.5	BK	250	Ground	I	BTV

cardiagn.com

B59 Front Impact Sensor



2179777

Connector Part Information

Harness Type: Inflatable Restraint
OEM Connector: 13593078
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 Series, Sealed (L-GY)

Terminal Part Information

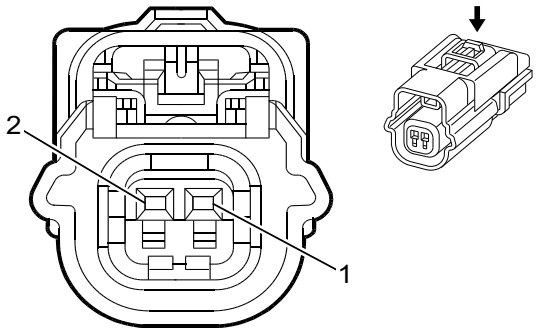
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B59 Front Impact Sensor

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

cardiagn.com

B63LF Side Impact Sensor - Left Front



1664592

Connector Part Information

Harness Type: Air Bag Jumper
OEM Connector: 13528494
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 Kaizen Series, Sealed (BK)

Terminal Part Information

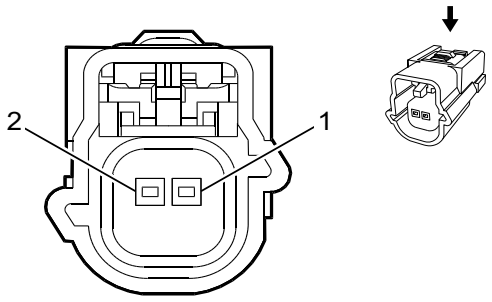
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B63LF Side Impact Sensor - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	2132	Left Front Side Impact Sensing Module Signal	I	—
2	0.5	PU/WH	6628	Left Front Side Impact Sensing Module Low Reference	I	—

cardiagn.com

B63LR Side Impact Sensor - Left Rear



2179777

Connector Part Information

Harness Type: Air Bag Jumper
OEM Connector: 13610095
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 Series, Sealed (D-GY)

Terminal Part Information

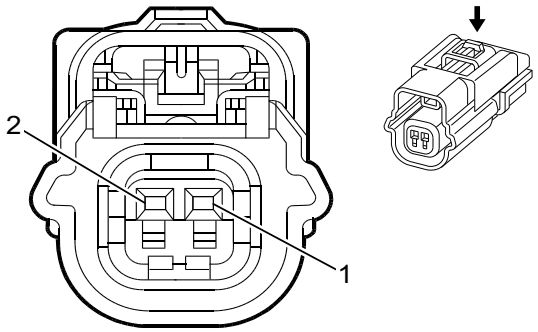
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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 Sensing Module Signal	I	—
2	0.5	GY/BK	6621	Left Middle Side Impact Sensing Module Low Reference	I	—

cardiagn.com

B63RF Side Impact Sensor - Right Front



1664592

Connector Part Information

Harness Type: Passenger Side Impact Sensor
OEM Connector: 89047381
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 Kaizen Series, Sealed (BK)

Terminal Part Information

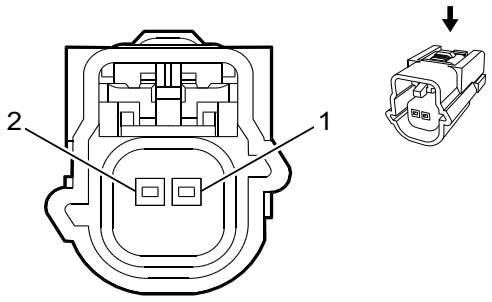
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B63RF Side Impact Sensor - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	WH	2134	Right Front Side Impact Sensing Module Signal	I	—
2	—	VT/WH	6629	Right Front Side Impact Sensing Module Low Reference	I	—

cardiagn.com

B63RR Side Impact Sensor - Right Rear



2179777

Connector Part Information

Harness Type: Air Bag Jumper
OEM Connector: 13610095
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 Series, Sealed (D-GY)

Terminal Part Information

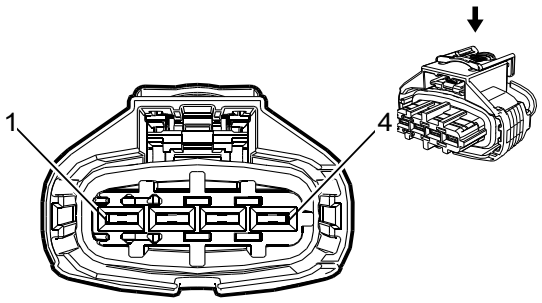
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B63RR Side Impact Sensor - Right Rear

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

cardiagn.com

B65 Intake Manifold Pressure and Air Temperature Sensor



2487930

Connector Part Information

Harness Type: Intake Manifold Pressure and Air Temperature Sensor Jumper
OEM Connector: 13343438
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 2.8 Series, Sealed (BK)

Terminal Part Information

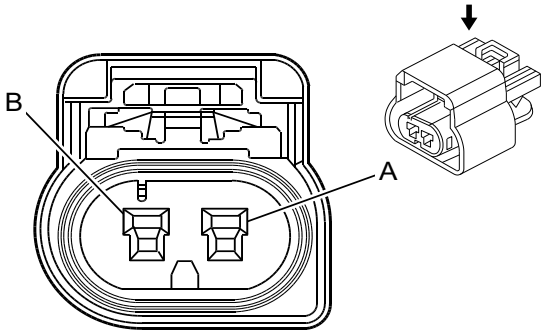
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B65 Intake Manifold Pressure and Air Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	469	Manifold Absolute Pressure Sensor Low Reference	I	—
2	—	BN	9348	Induction Air Temperature Sensor 3 Signal	I	—
3	—	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
4	—	—	432	Manifold Absolute Pressure Sensor Signal	I	—

cardiagn.com

B68A Knock Sensor 1 (L96/LC8)



1232999

Connector Part Information

Harness Type: Engine
OEM Connector: 15374222
Service Connector: 13580877
Description: 2-Way F 150 GT Series, Sealed (NA)

Terminal Part Information

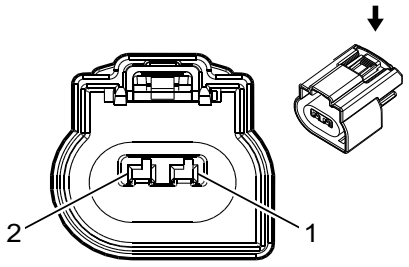
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B68A Knock Sensor 1 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU/	496	Knock Sensor Signal 1	I	—
B	0.8	GY	1716	Knock Sensor Low Reference 1	I	—

cardiagn.com

B68A Knock Sensor 1 (LV1)



2717073

Connector Part Information

Harness Type: Engine
OEM Connector: 13814755
Service Connector: 19301207
Description: 2-Way F 150 MX Series, Sealed (BK)

Terminal Part Information

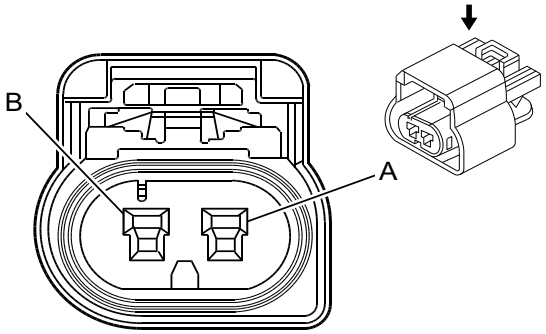
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B68A Knock Sensor 1 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/GY	496	Knock Sensor Signal 1	I	—
2	0.75	GY	1716	Knock Sensor Low Reference 1	I	—

cardiagn.com

B68B Knock Sensor 2 (L96/LC8)



1232999

Connector Part Information

Harness Type: Engine
OEM Connector: 15374222
Service Connector: 13580877
Description: 2-Way F 150 GT Series, Sealed (NA)

Terminal Part Information

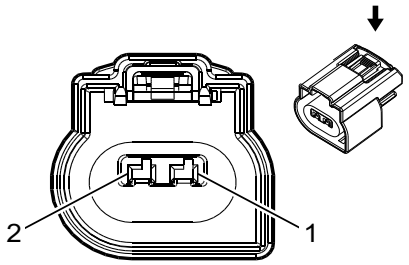
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B68B Knock Sensor 2 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	L-BU	1876	Knock Sensor Signal 2	I	—
B	0.8	GY	2303	Knock Sensor Low Reference 2	I	—

cardiagn.com

B68B Knock Sensor 2 (LV1)



2717073

Connector Part Information

Harness Type: Engine
OEM Connector: 13814755
Service Connector: 19301207
Description: 2-Way F 150 MX Series, Sealed (BK)

Terminal Part Information

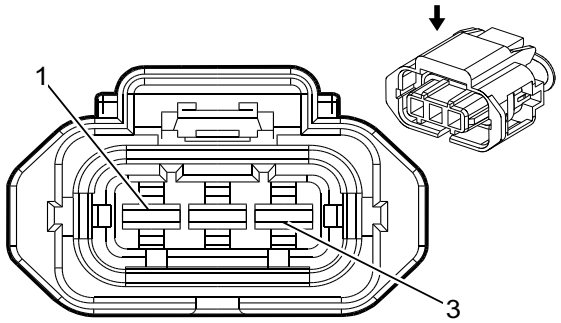
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B68B Knock Sensor 2 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	D-BU/	1876	Knock Sensor Signal 2	I	—
2	0.75	BK/GY	2303	Knock Sensor Low Reference 2	I	—

cardiagn.com

B74 Manifold Absolute Pressure Sensor (L96/LC8)



1914850

Connector Part Information

Harness Type: Engine
OEM Connector: 13639747
Service Connector: 19181248
Description: 3-Way F 2.8 Junior Power Timer Series, Sealed (BK)

Terminal Part Information

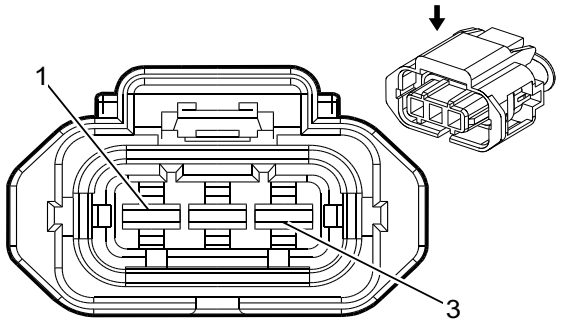
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B74 Manifold Absolute Pressure Sensor (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	GY	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
2	0.8	OG/BK	469	Manifold Absolute Pressure Sensor Low Reference	I	—
3	0.8	L-GN	432	Manifold Absolute Pressure Sensor Signal	I	—

cardiagn.com

B74 Manifold Absolute Pressure Sensor (LV1)



1914850

Connector Part Information

Harness Type: Engine
OEM Connector: 15397338
Service Connector: 13585845
Description: 3-Way F 2.8 Junior Power Timer Series, Sealed (BK)

Terminal Part Information

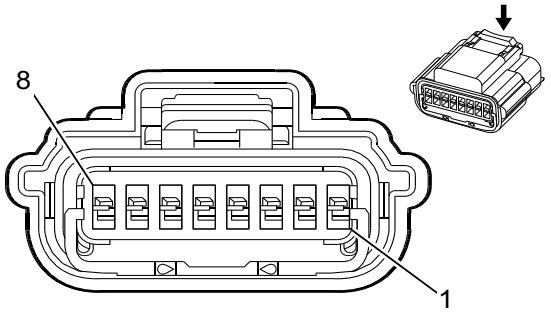
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B74 Manifold Absolute Pressure Sensor (LV1)

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

cardiagn.com

B75C Multifunction Intake Air Sensor



2581486

Connector Part Information

Harness Type: Engine
OEM Connector: 13774439
Service Connector: 13583440
Description: 8-Way F 0.64 Series, Sealed (BK)

Terminal Part Information

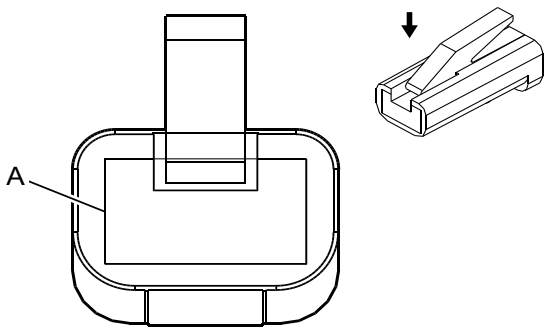
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B75C Multifunction Intake Air Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/VT	472	Intake Air Temperature Sensor Signal	I	L96/LC8
	0.5	D-BU/	6289	Induction Air Temperature Sensor Signal	I	LV1
	0.5	WH/D-BU	6289	Induction Air Temperature Sensor Signal	I	LWN
2	0.75	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	L96/LC8
	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	LV1
	0.5	GY/WH	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	LWN
3	0.75	BK/VT	2760	Intake Air Temperature Sensor Low Reference	I	L96/LC8
	0.5	WH/YE	3202	Throttle Inlet Absolute Pressure Sensor Low Reference	I	LV1
	0.5	BK/VT	2760	Intake Air Temperature Sensor Low Reference	I	LWN
4	0.75	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	L96/LC8
	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	LV1/LWN
5	0.75	VT/WH	1939	Run/Crank Ignition 1 Voltage	I	—
6	0.75	L-GN/WH	492	Mass Air Flow Sensor Signal	I	L96/LC8
	0.5	L-GN/WH	492	Mass Air Flow Sensor Signal	I	LV1
	0.5	YE	492	Mass Air Flow Sensor Signal	I	LWN
7	0.75	BK/WH	1551	Signal Ground	I	—
8	0.75	GY/D-BU	7564	Humidity Sensor Signal	I	L96/LC8
	0.5	D-BU/	7564	Humidity Sensor Signal	I	LV1
	0.5	BN/GY	4008	Humidity Sensor Signal	I	LWN

cardiagn.com

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

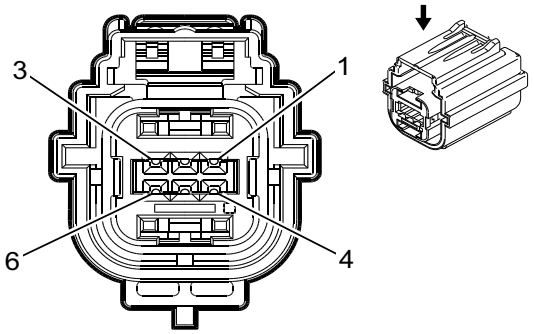
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B80 Park Brake Switch

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

cardiagn.com

B87 Rearview Camera (CARGO/PASSENGER)



2133378

Connector Part Information

Harness Type: Rear Cargo Door
OEM Connector: 13629704
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Series, Sealed (GY)

Terminal Part Information

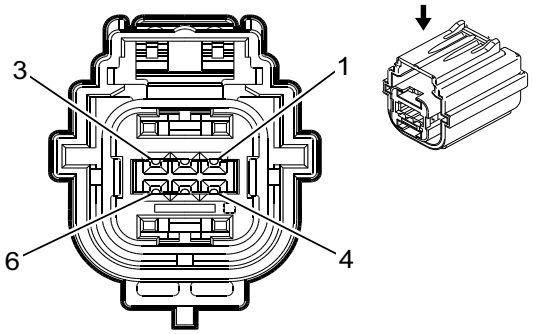
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B87 Rearview Camera (CARGO/PASSENGER)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	7641	Camera Rear Vision 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	Camera Rear Vision Signal (-)	I	—
5	0.5	BK	351	Signal Ground	I	—
6	0.5	PK	239	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

B87 Rearview Camera (CUTAWAY)



2133378

Connector Part Information

Harness Type: Rearview Camera
OEM Connector: 13629704
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Series, Sealed (GY)

Terminal Part Information

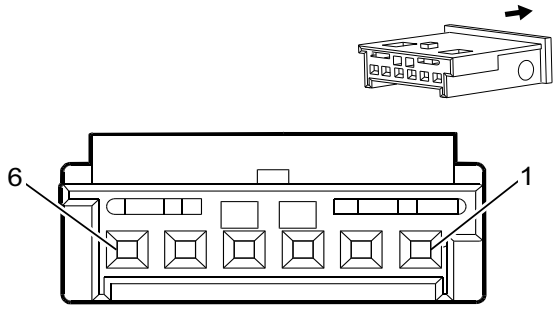
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B87 Rearview Camera (CUTAWAY)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	7641	Camera Rear Vision 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	Camera Rear Vision Signal (-)	I	—
5	0.5	BK/WH	351	Signal Ground	I	—
6	0.5	PK	239	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

B99 Steering Wheel Angle Sensor



1862024

Connector Part Information

Harness Type: Steering Column
OEM Connector: 19151551
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Micro-Quadlock Series (BK)

Terminal Part Information

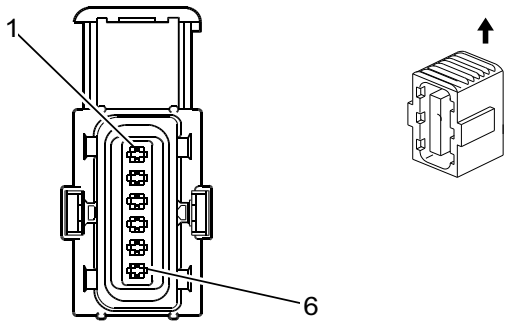
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B99 Steering Wheel Angle Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	WH	6106	High Speed GMLAN Serial Data (-) 2	I	—
2	—	WH	6106	High Speed GMLAN Serial Data (-) 2	I	—
3	—	BU/YE	6105	High Speed GMLAN Serial Data (+) 2	I	—
4	—	BU/YE	6105	High Speed GMLAN Serial Data (+) 2	I	—
5	—	—	2087	Combined Vehicle Inertial Sensor Supply Voltage	I	—
6	—	BK/WH	351	Signal Ground	I	—

cardiagn.com

B107 Accelerator Pedal Position Sensor



1334452

Connector Part Information

Harness Type: Accelerator Pedal Position Sensor
OEM Connector: 15383136
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 1.2 Micro-Timer Series, Sealed (BK)

Terminal Part Information

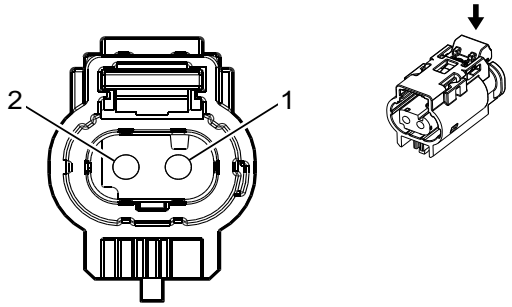
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Avail-able	No Tool Required	Not Available	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B107 Accelerator Pedal Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	TN	1274	Accelerator Pedal Position 5V Reference 2	II	—
2	0.35	WH/BK	1164	Accelerator Pedal Position 5V Reference 1	II	—
3	0.35	D-BU	1161	Accelerator Pedal Position Signal 1	II	—
4	0.35	BK/D-BU	1271	Accelerator Pedal Position Low Reference 1	I	LV1
	0.35	BN	1271	Accelerator Pedal Position Low Reference 1	II	-LV1
5	0.35	PU	1272	Accelerator Pedal Position Low Reference 2	II	—
6	0.35	L-BU	1162	Accelerator Pedal Position Signal 2	II	—

cardiagn.com

B130A Exhaust Gas Recirculation Temperature Sensor 1



3747581

Connector Part Information

Harness Type: Engine
OEM Connector: 33226772
Service Connector: 19332719
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

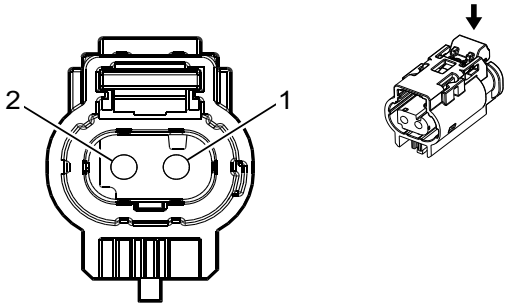
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B130A Exhaust Gas Recirculation Temperature Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/D-BU	6274	Exhaust Gas Recirculation Temperature Sensor Low Reference	I	—
2	0.5	WH/BN	3237	Exhaust Gas Recirculation Temperature Sensor Signal	I	—

cardiagn.com

B130B Exhaust Gas Recirculation Temperature Sensor 2



3747581

Connector Part Information

Harness Type: Engine
OEM Connector: 33180624
Service Connector: 19332628
Description: 2-Way F 1.2 Multilock Series, Sealed (GY)

Terminal Part Information

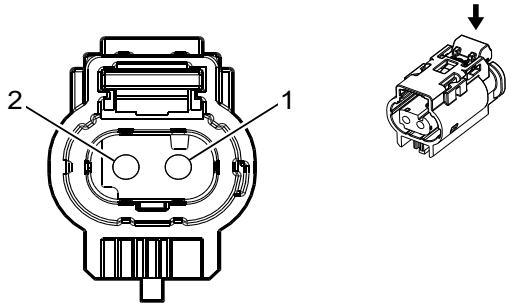
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B130B Exhaust Gas Recirculation Temperature Sensor 2

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

cardiagn.com

B131A Exhaust Temperature Sensor 1



3747581

Connector Part Information

Harness Type: Engine
OEM Connector: 33226772
Service Connector: 19332719
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

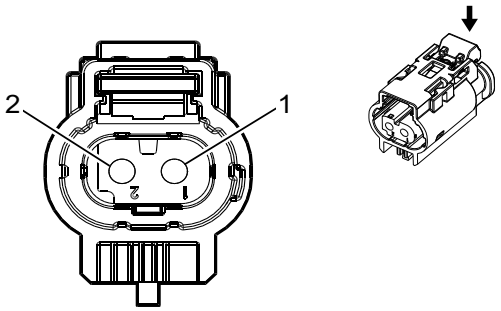
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B131A Exhaust Temperature Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/BN	6782	Exhaust Gas Temperature Sensor 1 Low Reference	I	—
2	0.5	D-BU/WH	5277	Exhaust Gas Temperature Sensor 1	I	—

cardiagn.com

B131B Exhaust Temperature Sensor 2



3747580

Connector Part Information

Harness Type: Engine
OEM Connector: 33159713
Service Connector: 19332627
Description: 2-Way F 1.2 Multilock Series, Sealed (GY)

Terminal Part Information

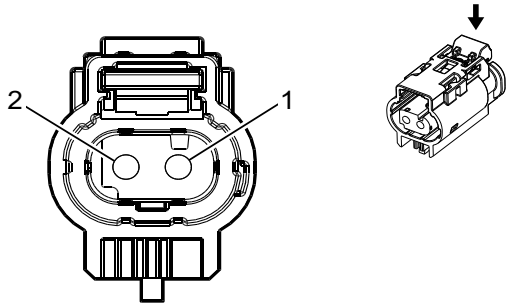
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B131B Exhaust Temperature Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/D-BU	6783	Exhaust Gas Temperature Sensor 2 Low Reference	I	—
2	0.5	D-BU/L-GN	5377	Exhaust Gas Temperature Sensor 2	I	—

cardiagn.com

B131C Exhaust Temperature Sensor 3



3747581

Connector Part Information

Harness Type: Chassis
OEM Connector: 33180624
Service Connector: 19332628
Description: 2-Way F 1.2 Multilock Series, Sealed (GY)

Terminal Part Information

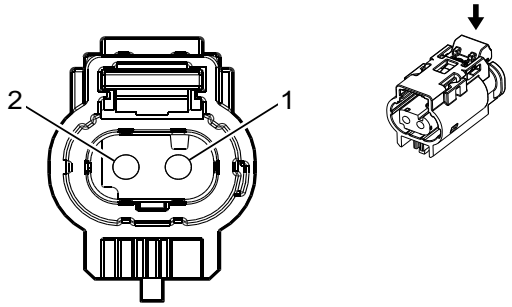
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B131C Exhaust Temperature Sensor 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/L-GN	3657	Exhaust Gas Temperature Sensor 3 Low Reference	I	—
2	0.5	GY/L-GN	5378	Exhaust Gas Temperature Sensor 3	I	—

cardiagn.com

B131D Exhaust Temperature Sensor 4



3747581

Connector Part Information

Harness Type: Chassis
OEM Connector: 33226772
Service Connector: 19332719
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

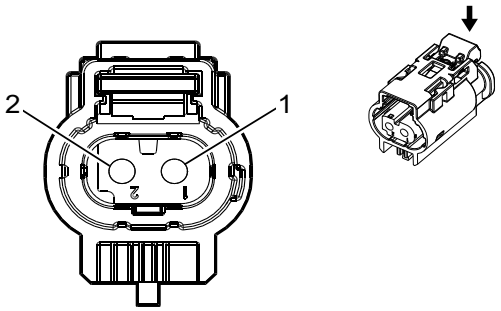
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B131D Exhaust Temperature Sensor 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/GY	3659	Exhaust Gas Temperature Sensor 4 Low Reference	I	—
2	0.5	VT/BN	3658	Exhaust Gas Temperature Sensor 4 Signal	I	—

cardiagn.com

B131E Exhaust Temperature Sensor 5



3747580

Connector Part Information

Harness Type: Chassis
OEM Connector: 33159713
Service Connector: 19332627
Description: 2-Way F 1.2 Multilock Series, Sealed (GY)

Terminal Part Information

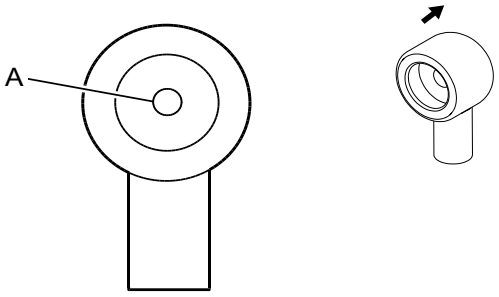
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B131E Exhaust Temperature Sensor 5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/VT	3661	Exhaust Gas Temperature Sensor 5 Low Reference	I	—
2	0.5	D-BU/GY	3660	Exhaust Gas Temperature Sensor 5 Signal	I	—

cardiagn.com

B133 Brake Booster Fluid Flow Alarm Switch X1



2004808

Connector Part Information

Harness Type: Brake Fluid Level Switch
OEM Connector: 6288440
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F Grip Series (BK)

Terminal Part Information

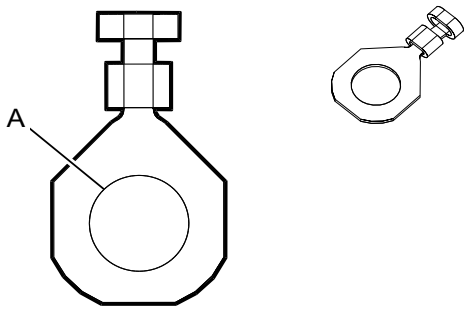
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B133 Brake Booster Fluid Flow Alarm Switch X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-BU/BK	1928	Brake Booster Fluid Flow Switch Signal	I	—

cardiagn.com

B133 Brake Booster Fluid Flow Alarm Switch X2



3240148

Connector Part Information

Harness Type: Brake Fluid Level Switch
OEM Connector: 12103516
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

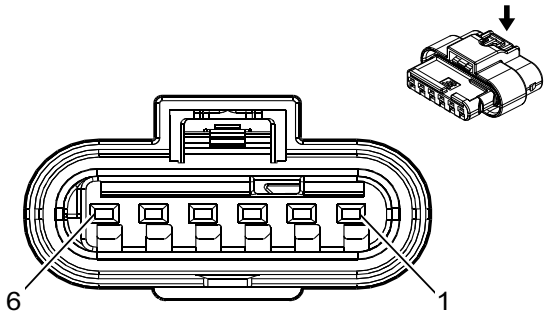
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

B133 Brake Booster Fluid Flow Alarm Switch X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK/WH	351	Signal Ground	I	—

cardiagn.com

B136 Exhaust Particulate Matter Sensor



3747582

Connector Part Information

Harness Type: Chassis
OEM Connector: 33226734
Service Connector: 19354530
Description: 6-Way F 1.2 MCON-LL Series, Sealed (BN)

Terminal Part Information

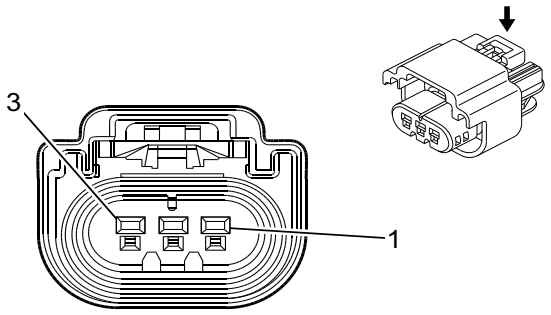
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B136 Exhaust Particulate Matter Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	150	Ground	I	—
2	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	I	—
3	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	I	—
4	0.5	D-BU/BK	7493	High Speed GMLAN Serial Data (+)3	I	—
5	0.5	D-BU/BK	7493	High Speed GMLAN Serial Data (+)3	I	—
6	1	GY	3672	NOx Sensor 2 Control	I	—

cardiagn.com

B150 Fuel Tank Pressure Sensor



2004806

Connector Part Information

Harness Type: Chassis
OEM Connector: 13522407
Service Connector: 19179274
Description: 3-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

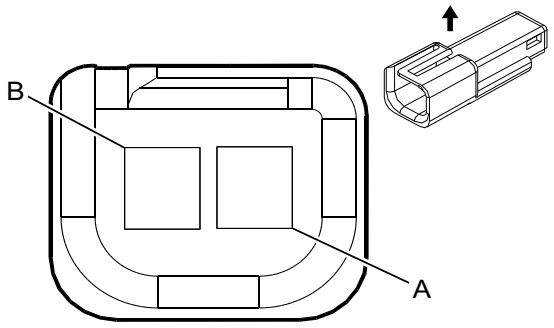
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B150 Fuel Tank Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU/WH	890	Fuel Tank Pressure Sensor Signal	I	—
2	0.5	BK/BN	2759	Fuel Tank Pressure Sensor Low Reference	I	—
3	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5V Reference	I	—

cardiagn.com

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

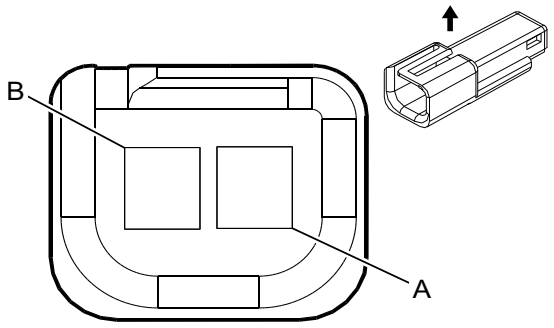
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B153D Seat Belt Buckle - Driver

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

cardiagn.com

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

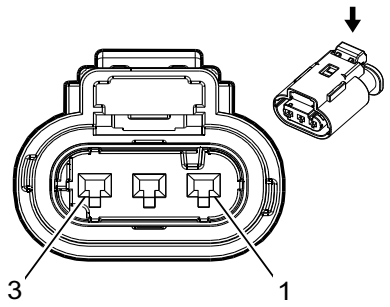
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B153P Seat Belt Buckle - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	PK	1361	Passenger Seat Belt Switch Low Reference	I	—
B	—	OG	1362	Passenger Seat Belt Switch Signal	I	—

cardiagn.com

B154 Diesel Particulate Filter Exhaust Differential Pressure Sensor



2717069

Connector Part Information

Harness Type: Chassis
OEM Connector: 13763990
Service Connector: 19299690
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

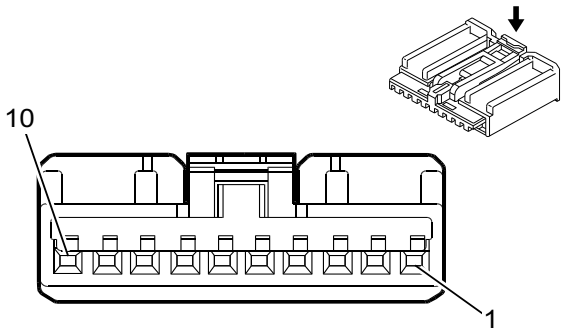
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B154 Diesel Particulate Filter Exhaust Differential Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/	6053	Exhaust Pressure Sensor Signal 1	I	—
2	0.5	BK/YE	6055	Exhaust Pressure Sensor Low Reference 1	I	—
3	0.5	WH/RD	6054	Exhaust Pressure Sensor 5V Reference 1	I	—

cardiagn.com

B174W Frontview Camera - Windshield



1862241

Connector Part Information

Harness Type: Headliner
OEM Connector: 13574592
Service Connector: 13576634
Description: 10-Way F 0.64 Kaizen Series (BK)

Terminal Part Information

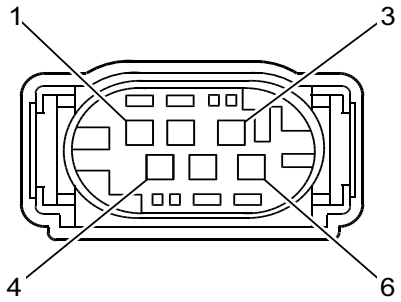
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

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	I	—

cardiagn.com

B176 Multi-axis Acceleration Sensor Module



831393

Connector Part Information

Harness Type: Body
OEM Connector: 15355474
Service Connector: 15306420
Description: 6-Way F 0.64 Micro-Quadlock Series, Sealed (BK)

Terminal Part Information

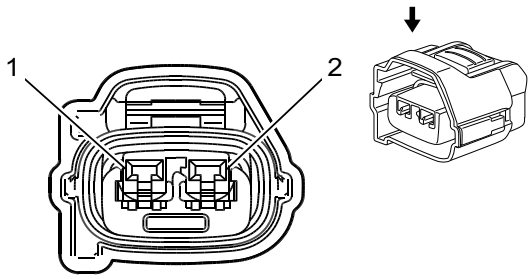
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	I	—
2 - 3	—	—	—	Not Occupied	—	—
4	0.5	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	—

cardiagn.com

B193A Charge Air Cooler Inlet Temperature Sensor



2388842

Connector Part Information

Harness Type: Engine
OEM Connector: 15401053
Service Connector: 19368660
Description: 2-Way F 090 Series, Sealed (D-GY)

Terminal Part Information

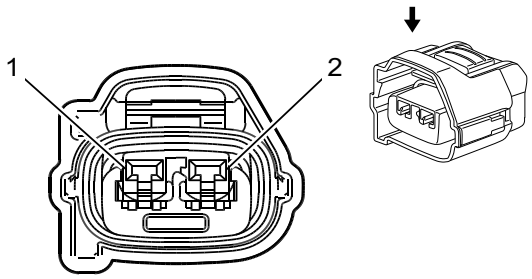
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B193A Charge Air Cooler Inlet Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	3683	Charge Air Cooler Inlet Temperature Sensor Signal	I	—
2	0.5	YE/BK	3682	Charge Air Cooler Inlet Temperature Sensor Low Reference	I	—

cardiagn.com

B193B Charge Air Cooler Outlet Temperature Sensor



2388842

Connector Part Information

Harness Type: Engine
OEM Connector: 15401053
Service Connector: 19368660
Description: 2-Way F 090 Series, Sealed (D-GY)

Terminal Part Information

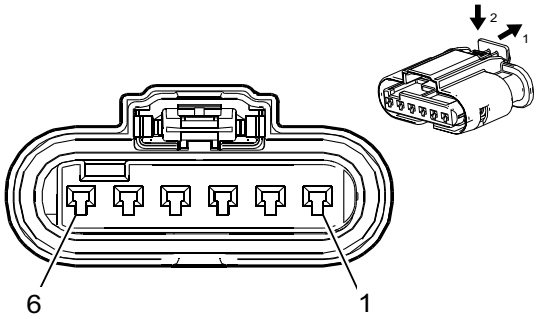
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B193B Charge Air Cooler Outlet Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	3681	Charge Air Cooler Outlet Temperature Sensor Signal	I	—
2	0.5	YE/D-BU	3680	Charge Air Cooler Outlet Temperature Sensor Low Reference	I	—

cardiagn.com

B195A Nitrogen Oxides Sensor 1



3960142

Connector Part Information

Harness Type: Engine
OEM Connector: 33230495
Service Connector: 19368560
Description: 6-Way F 1.2 MCON-LL Series, Sealed (BK)

Terminal Part Information

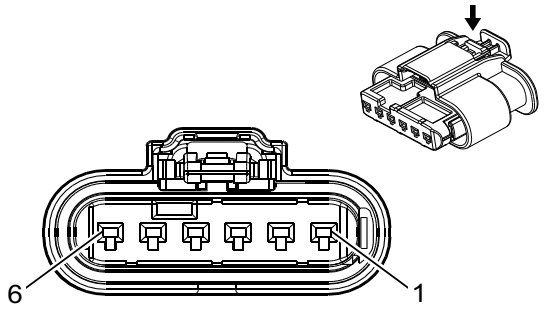
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B195A Nitrogen Oxides Sensor 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	GY	3672	NOx Sensor 2 Control	I	—
2	0.5	D-BU/BK	7493	High Speed GMLAN Serial Data (+)3	I	—
3	0.5	D-BU/BK	7493	High Speed GMLAN Serial Data (+)3	I	—
4	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	I	—
5	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	I	—
6	1	BK	150	Ground	I	—

cardiagn.com

B195B Nitrogen Oxides Sensor 2



4455148

Connector Part Information

Harness Type: Chassis
OEM Connector: 33226735
Service Connector: 19368561
Description: 6-Way F 1.2 MCON-LL Series, Sealed (GY)

Terminal Part Information

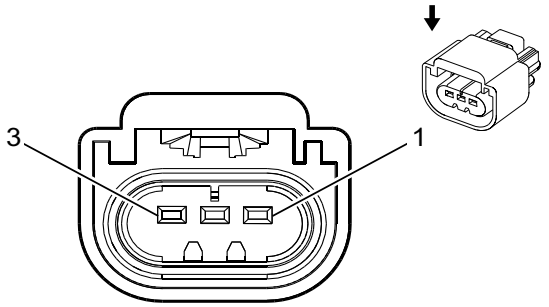
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B195B Nitrogen Oxides Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	GY	3672	NOx Sensor 2 Control	I	—
2	0.5	D-BU/BK	7493	High Speed GMLAN Serial Data (+)3	I	—
3 - 4	—	—	—	Not Occupied	—	—
5	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	I	—
6	1	BK	150	Ground	I	—

cardiagn.com

B198 Fuel Composition Sensor (FHS)



2422393

Connector Part Information

Harness Type: Chassis
OEM Connector: 13511132
Service Connector: 19368712
Description: 3-Way F 150 GT Series, Sealed (BN)

Terminal Part Information

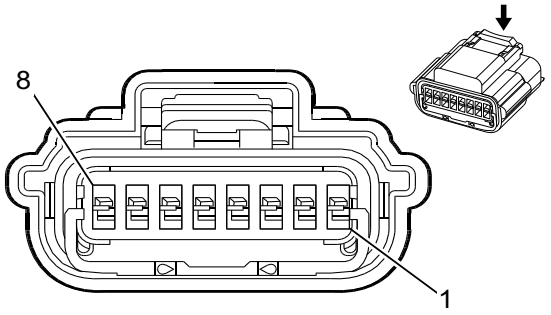
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

B198 Fuel Composition Sensor (FHS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	5294	Powertrain Main Relay Fused Supply 5	I	—
2	—	BK/WH	1551	Signal Ground	I	—
3	—	WH	1579	Fuel Temperature/Composition Signal	I	—

cardiagn.com

B218L Side Object Sensor Module - Left



2581486

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 15543347
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 0.64 Series, Sealed (BK)

Terminal Part Information

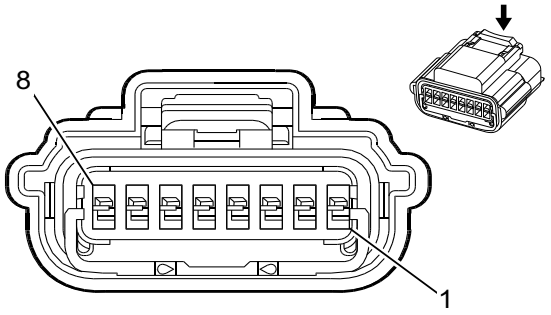
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B218L Side Object Sensor Module - Left

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 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	—

cardiagn.com

B218R Side Object Sensor Module - Right



2581486

Connector Part Information

Harness Type: Rear Fascia
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B218R Side Object Sensor Module - Right

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	—

cardiagn.com

B295 Reductant Quality Sensor

—

Connector Part Information

Harness Type: Emission Reductant Fluid Tank Reservoir
OEM Connector: 13893234
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way

Terminal Part Information

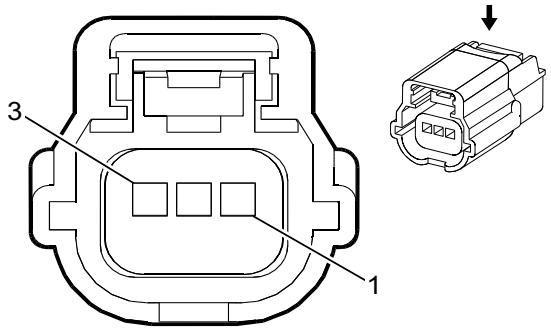
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

B295 Reductant Quality Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	YE	53	Diesel Exhaust Fluid Quality Signal	I	—
2	—	GN	7487	Sensor Signal	I	—
3	—	OG	7285	Diesel Exhaust Fluid Liquid Quality Temperature Sensor Low Reference	I	—

cardiagn.com

B306E Parking Assist Sensor - Rear Left Outer



1664596

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 13525738
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 0.64 Series, Sealed (BK)

Terminal Part Information

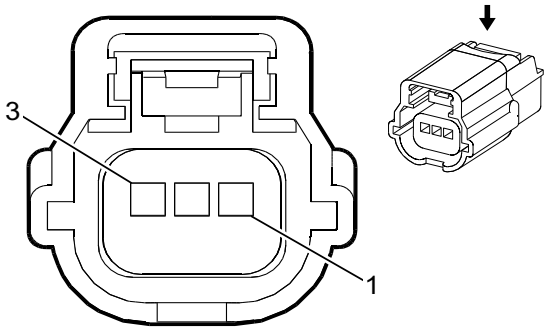
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B306E Parking Assist Sensor - Rear Left Outer

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	2374	Object Sensor Control	I	UD7
2	0.5	BK/GY	2379	Object Sensor Low Reference	I	—
3	0.5	YE	2375	Left Rear Corner Object Sensor Signal	I	—

cardiagn.com

B306F Parking Assist Sensor - Rear Left Middle



1664596

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 13525738
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 0.64 Series, Sealed (BK)

Terminal Part Information

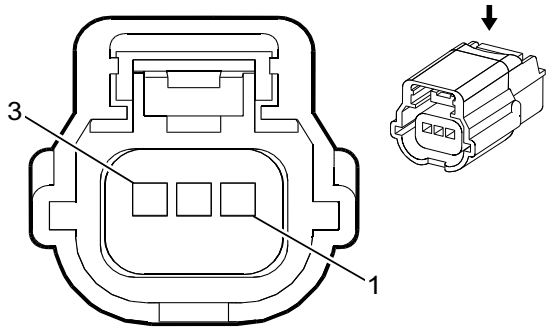
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B306F Parking Assist Sensor - Rear Left Middle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	2374	Object Sensor Control	I	UD7
2	0.5	BK/GY	2379	Object Sensor Low Reference	I	—
3	0.5	YE/D-BU	2376	Left Rear Middle Object Sensor Signal	I	UD7

cardiagn.com

B306G Parking Assist Sensor - Rear Right Middle



1664596

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 13525738
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 0.64 Series, Sealed (BK)

Terminal Part Information

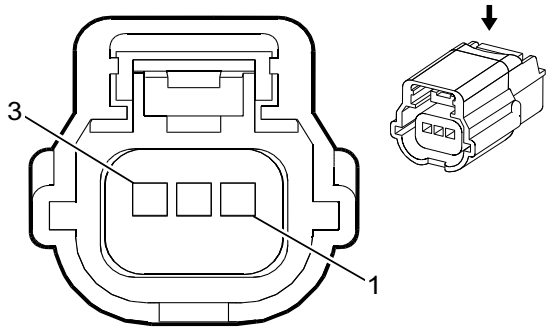
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B306G Parking Assist Sensor - Rear Right Middle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	2374	Object Sensor Control	I	—
2	0.5	BK/GY	2379	Object Sensor Low Reference	I	UD7
3	0.5	YE/WH	2377	Right Rear Middle Object Sensor Signal	I	UD7

cardiagn.com

B306H Parking Assist Sensor - Rear Right Outer



1664596

Connector Part Information

Harness Type: Rear Fascia
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B306H Parking Assist Sensor - Rear Right Outer

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	2374	Object Sensor Control	I	—
2	0.5	BK/GY	2379	Object Sensor Low Reference	I	—
3	0.5	YE/VT	2378	Right Rear Corner Object Sensor Signal	I	—

cardiagn.com

C1 Battery ((-))

—

Connector Part Information

Harness Type: Negative Battery Cable
OEM Connector: 12129465
Service Connector: Service by Harness - See Part Catalog
Description: —

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

C1 Battery ((-))

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	19	BK	50	Ground	I	—
	32	BK	50	Ground		—

cardiagn.com

C1 Battery ((+))

—

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12129465
Service Connector: Service by Harness - See Part Catalog
Description: —

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

C1 Battery ((+))

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	32	RD	1	Unfused Battery Positive Voltage	I	—
	8	RD/BK	1	Unfused Battery Positive Voltage		—

cardiagn.com

C1B Battery - Auxiliary (L96/LC8)

—

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12146464
Service Connector: Service by Cable Assembly — See Part Catalog
Description: —

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

C1B Battery - Auxiliary (L96/LC8)

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

cardiagn.com

C1B Battery - Auxiliary (LV1+TP2)

—

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12146464
Service Connector: Service by Cable Assembly — See Part Catalog
Description: —

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

C1B Battery - Auxiliary (LV1+TP2)

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

cardiagn.com

C1B Battery - Auxiliary (LWN)

—

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12146466
Service Connector: Service by Cable Assembly — See Part Catalog
Description: —

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

C1B Battery - Auxiliary (LWN)

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

cardiagn.com

C1B Battery - Auxiliary (LWN+TP2)

—

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12146464
Service Connector: Service by Cable Assembly — See Part Catalog
Description: —

Terminal Part Information

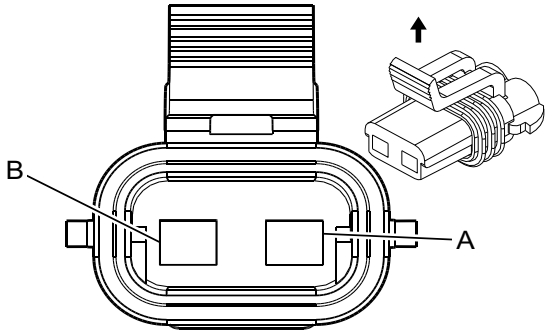
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

C1B Battery - Auxiliary (LWN+TP2)

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

cardiagn.com

E2LF Side Marker Lamp - Left Front



68721

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 15300027
Service Connector: 12101855
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

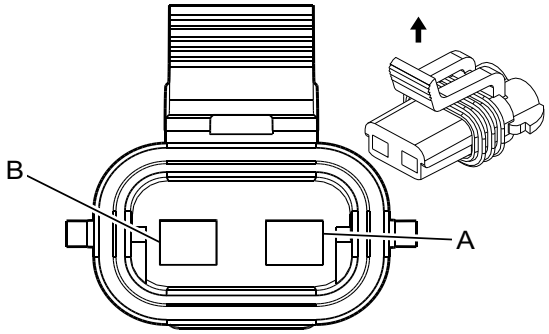
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E2LF Side Marker Lamp - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GY/BN	2309	Front Park Lamp Control	I	—
B	0.5	BK	250	Ground	I	—

cardiagn.com

E2RF Side Marker Lamp - Right Front



68721

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 15300027
Service Connector: 12101855
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

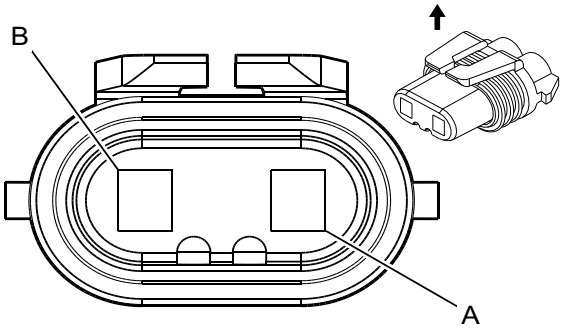
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E2RF Side Marker Lamp - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GY/BN	2309	Front Park Lamp Control	I	—
B	0.5	BK	650	Ground	I	—

cardiagn.com

E4E Headlamp - Left High Beam (V22)



684797

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 12059183
Service Connector: 12101898
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

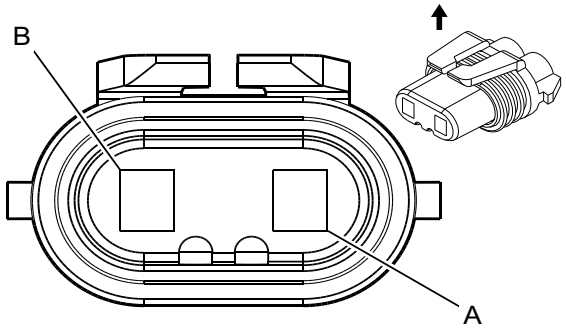
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4E Headlamp - Left High Beam (V22)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-GN/WH	711	Left Headlamp High Beam Control	I	V22
	0.75	WH	711	Left Headlamp High Beam Control	I	-V22
B	0.8	BK	250	Ground	I	V22
	0.75	BK	250	Ground	I	-V22

cardiagn.com

E4F Headlamp - Right High Beam (V22)



684797

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 12059183
Service Connector: 12101898
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

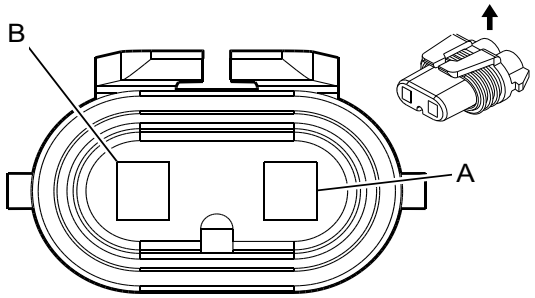
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4F Headlamp - Right High Beam (V22)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	WH	311	Right Headlamp High Beam Control	I	—
B	0.75	BK	650	Ground	I	—

cardiagn.com

E4G Headlamp - Left Low Beam (V22)



684796

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 12059181
Service Connector: 19301866
Description: 2-Way F 280 Metri-Pack Series, Sealed (GY)

Terminal Part Information

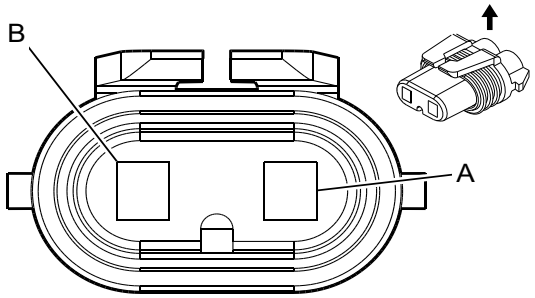
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4G Headlamp - Left Low Beam (V22)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	YE	712	Left Headlamp Low Beam Control	I	—
B	0.8	BK	250	Ground	I	V22
	0.75	BK	250	Ground	I	-V22

cardiagn.com

E4H Headlamp - Right Low Beam (V22)



684796

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 12059181
Service Connector: 19301866
Description: 2-Way F 280 Metri-Pack Series, Sealed (GY)

Terminal Part Information

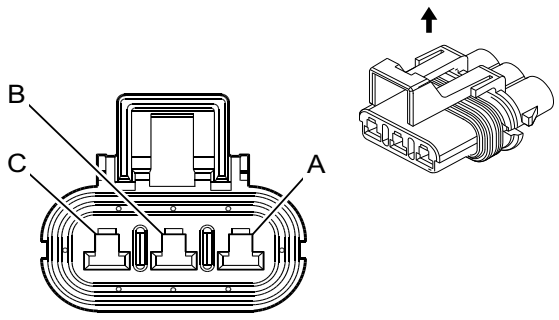
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4H Headlamp - Right Low Beam (V22)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	YE	312	Right Headlamp Low Beam Control	I	V22
	0.8	TN/WH	312	Right Headlamp Low Beam Control	I	-V22
B	0.8	BK	650	Ground	I	V22
	0.75	BK	650	Ground	I	-V22

cardiagn.com

E4N Park/Turn Signal Lamp - Left



847206

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 12040977
Service Connector: 12085492
Description: 3-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

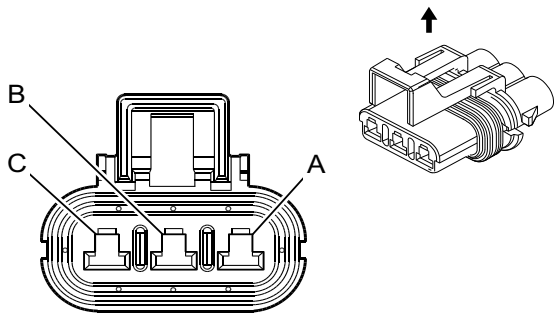
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4N Park/Turn Signal Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	D-BU/WH	1314	Left Front Turn Signal Lamp Control	I	—
B	0.5	GY/BN	2309	Front Park Lamp Control	I	—
C	0.5	BK	250	Ground	I	—

cardiagn.com

E4P Park/Turn Signal Lamp - Right



847206

Connector Part Information

Harness Type: Forward Lamp
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4P Park/Turn Signal Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	L-GN/VT	1315	Right Front Turn Signal Lamp Control	I	—
B	0.5	GY/BN	2309	Front Park Lamp Control	I	—
C	0.5	BK	650	Ground	I	—

cardiagn.com

E5A Backup Lamp - Left

—

Connector Part Information

Harness Type: Backup Lamp
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E5A Backup Lamp - Left

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

cardiagn.com

E5B Backup Lamp - Right

—

Connector Part Information

Harness Type: Backup Lamp
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E5B Backup Lamp - Right

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

cardiagn.com

E5S Tail/Stop and Turn Signal Lamp - Left

—

Connector Part Information

Harness Type: Tail/Stop and Turn Signal Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E5S Tail/Stop and Turn Signal Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	YE	618	Left Rear Turn Signal Lamp Control	I	—
B	—	BN	2509	Left Rear Park Lamp Control	I	—
G	—	BK	850	Ground	I	—

cardiagn.com

E5T Tail/Stop and Turn Signal Lamp - Right

—

Connector Part Information

Harness Type: Tail/Stop and Turn Signal Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way

Terminal Part Information

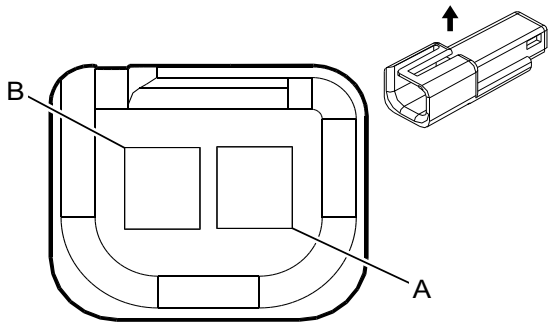
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E5T Tail/Stop and Turn Signal Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	D-GN	619	Right Rear Turn Signal Lamp Control	I	—
B	—	BN	2609	Right Rear Park Lamp Control	I	—
G	—	BK	1050	Ground	I	—

cardiagn.com

E6 Center High Mounted Stop Lamp



35441

Connector Part Information

Harness Type: CHMSL
OEM Connector: 12047663
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

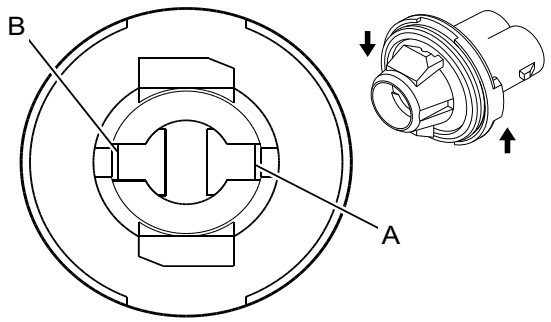
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E6 Center High Mounted Stop Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	L-BU	1320	CHMSL Control	I	—
B	—	BK	850	Ground	I	—

cardiagn.com

E7 License Plate Lamp



744036

Connector Part Information

Harness Type: Rear Cargo Door
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

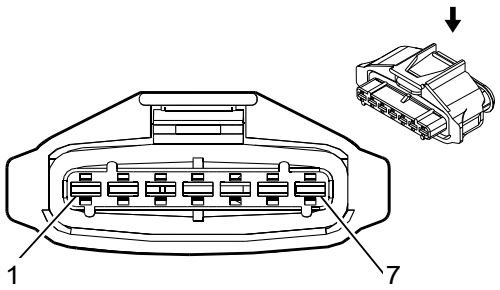
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

E7 License Plate Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BN	2509	Left Rear Park Lamp Control	I	—
B	0.5	BK	1050	Ground	I	—

cardiagn.com

E11A Fuel Heater/Water in Fuel Sensor



2537256

Connector Part Information

Harness Type: Chassis
OEM Connector: 10774827
Service Connector: 19354080
Description: 7-Way F 2.8 Junior Power Timer Series, Sealed (BK)

Terminal Part Information

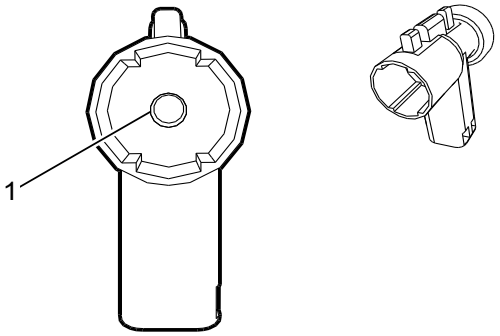
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E11A Fuel Heater/Water in Fuel Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	7073	Sensor Fuel Temperature 1 Low Reference	I	—
2	0.5	BN/GY	7072	Sensor Fuel Temperature 1 Signal	I	—
3	0.5	BU/YE	6861	Water In Fuel Sensor Signal	I	—
4	0.75	BK	2150	Ground	I	—
5	0.75	VT/GY	2739	Run/Crank Ignition 1 Voltage	I	—
6	2.5	VT/L-GN	355	Fuel Filter Heater Voltage	I	—
7	2.5	BK	2150	Ground	I	—

cardiagn.com

E12A Glow Plug 1



2323611

Connector Part Information

Harness Type: Glow Plug Jumper
OEM Connector: 1928404878
Service Connector: Service by Cable Assembly - See Part Catalog
Description: 1-Way F (BK)

Terminal Part Information

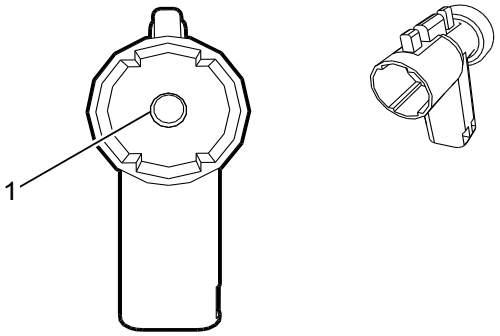
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

E12A Glow Plug 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY/D-BU	1581	Glow Plug Control 1	I	—

cardiagn.com

E12B Glow Plug 2



2323611

Connector Part Information

Harness Type: Glow Plug Jumper
OEM Connector: 1928404878
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F (BK)

Terminal Part Information

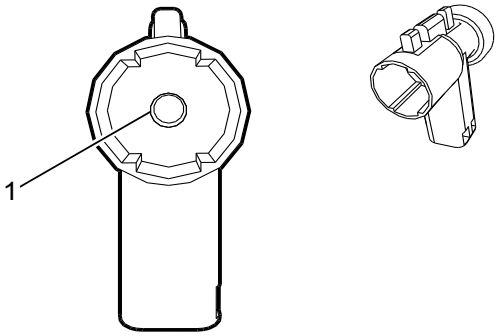
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E12B Glow Plug 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	GY/BN	1582	Glow Plug Control 2	I	—

cardiagn.com

E12C Glow Plug 3



2323611

Connector Part Information

Harness Type: Glow Plug Jumper
OEM Connector: 1928404878
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F (BK)

Terminal Part Information

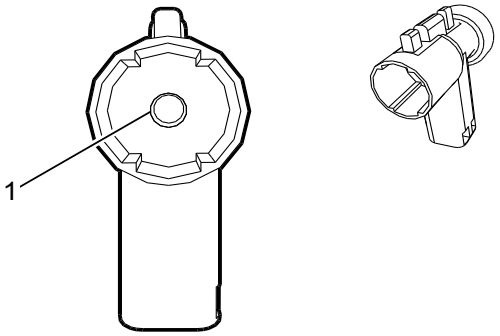
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E12C Glow Plug 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	1583	Glow Plug Control 3	I	—

cardiagn.com

E12D Glow Plug 4



2323611

Connector Part Information

Harness Type: Glow Plug Jumper
OEM Connector: 1928404878
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F (BK)

Terminal Part Information

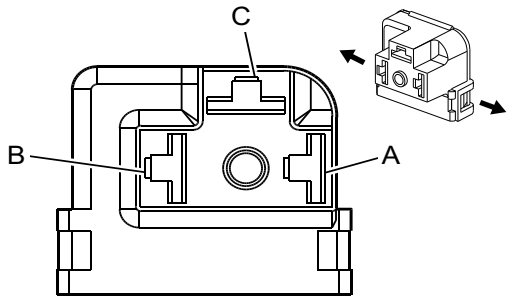
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E12D Glow Plug 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	GY/YE	1584	Glow Plug Control 4	I	—

cardiagn.com

E13L Headlamp - Left (-V22)



306269

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 12034372
Service Connector: 12117369
Description: 3-Way F 800 Metri-Pack Series (BK)

Terminal Part Information

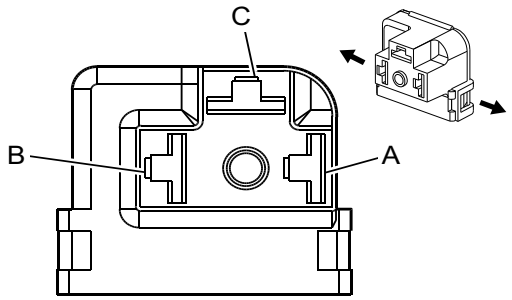
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-44 (YE)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E13L Headlamp - Left (-V22)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK	250	Ground	I	—
B	0.5	D-GN/WH	711	Left Headlamp High Beam Control	I	—
C	0.5	YE	712	Left Headlamp Low Beam Control	I	—

cardiagn.com

E13R Headlamp - Right (-V22)



306269

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 12034372
Service Connector: 12117369
Description: 3-Way F 800 Metri-Pack Series (BK)

Terminal Part Information

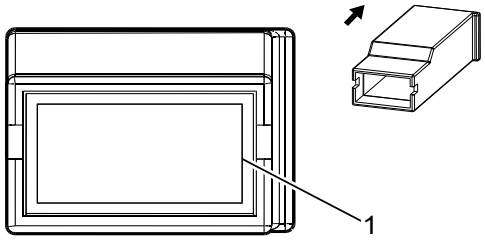
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-44 (YE)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E13R Headlamp - Right (-V22)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	650	Ground	I	—
B	0.8	L-GN/BK	311	Right Headlamp High Beam Control	I	—
C	0.5	TN/WH	312	Right Headlamp Low Beam Control	I	—

cardiagn.com

E18L Rear Defogger Grid - Left X1



2500421

Connector Part Information

Harness Type: Rear Window Defogger
OEM Connector: 12103107
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F 6.3 Positive Lock Series (BK)

Terminal Part Information

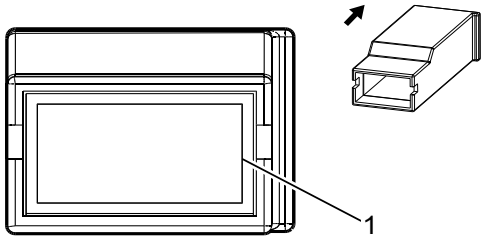
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E18L Rear Defogger Grid - Left X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
A	5	PU/	293	Rear Defog Element Control	I	—

cardiagn.com

E18L Rear Defogger Grid - Left X2



2500421

Connector Part Information

Harness Type: Rear Window Defogger
OEM Connector: 12103107
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F 6.3 Positive Lock Series (BK)

Terminal Part Information

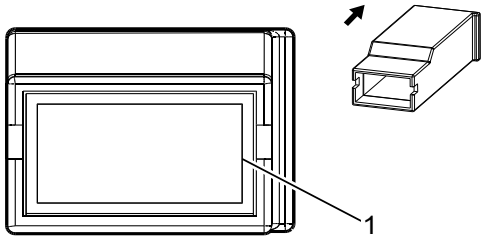
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E18L Rear Defogger Grid - Left X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
A	3	BK	850	Ground	I	—

cardiagn.com

E18R Rear Defogger Grid - Right X1



2500421

Connector Part Information

Harness Type: Rear Window Defogger
OEM Connector: 12103107
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F 6.3 Positive Lock Series (BK)

Terminal Part Information

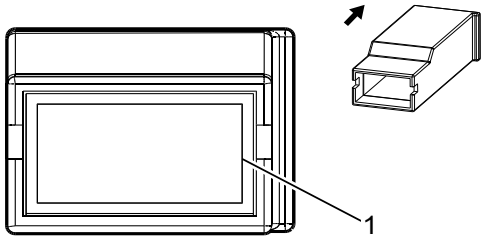
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E18R Rear Defogger Grid - Right X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
A	—	PU	293	Rear Defog Element Control	I	—

cardiagn.com

E18R Rear Defogger Grid - Right X2



2500421

Connector Part Information

Harness Type: Rear Window Defogger
OEM Connector: 12103107
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F 6.3 Positive Lock Series (BK)

Terminal Part Information

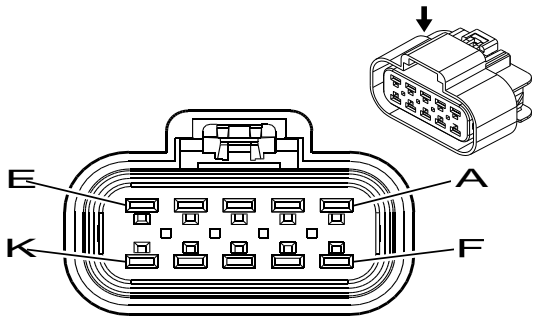
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E18R Rear Defogger Grid - Right X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
A	—	BK	1050	Ground	I	—

cardiagn.com

E19 Coolant Heater



655815

Connector Part Information

Harness Type: Chassis
OEM Connector: 15326660
Service Connector: 88986262
Description: 10-Way F 280 GT Series, Sealed (BK)

Terminal Part Information

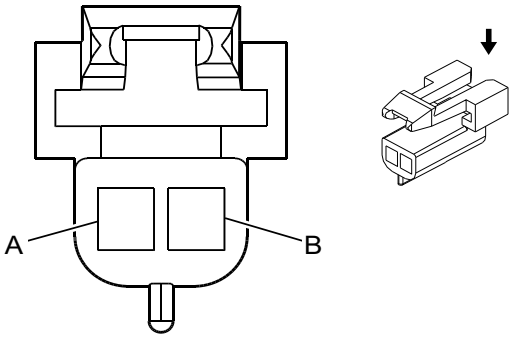
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13576356	J-35616-4A (PU)	J-38125-553	15304719	Delphi 19	2	5
II	13576356	J-35616-4A (PU)	J-38125-553	15304719	Delphi 19	E	5
III	13579782	J-35616-4A (PU)	J-38125-553	15304720	Delphi 19	4	5

E19 Coolant Heater

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2	RD/WH	1740	Battery Positive Voltage	III	—
B	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
C	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
D	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
E	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
F	0.8	D-BU/L-GN	7077	Fuel Operated Heater Dosing Pump Control	I	—
G	—	—	—	Not Occupied	—	—
H	2	BK	150	Ground	III	—
J	0.5	WH/D-BU	5986	Serial Data Communication Enable	II	—
K	—	—	—	Not Occupied	—	—

cardiagn.com

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

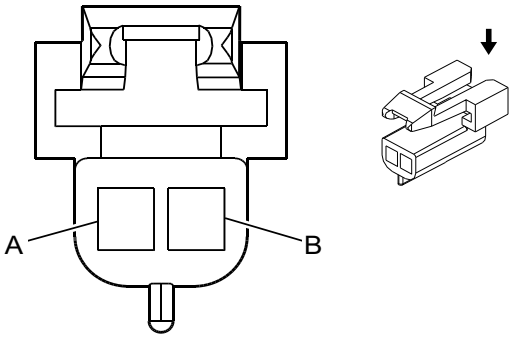
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E21A Fluorescent Work Lamp - Right Access Panel

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU/WH	149	Courtesy Lamp Control	I	—
B	20	BK	150	Ground	I	—

cardiagn.com

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

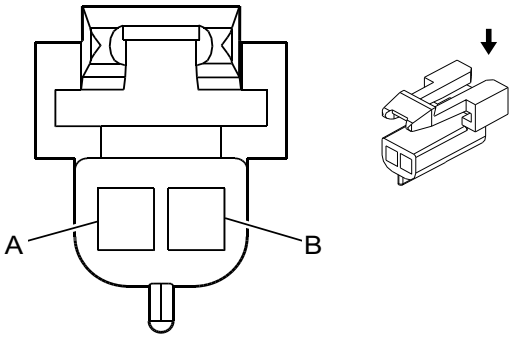
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E21F Fluorescent Work Lamp - Front Cargo

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU/WH	149	Courtesy Lamp Control	I	—
B	20	BK	150	Ground	I	—

cardiagn.com

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

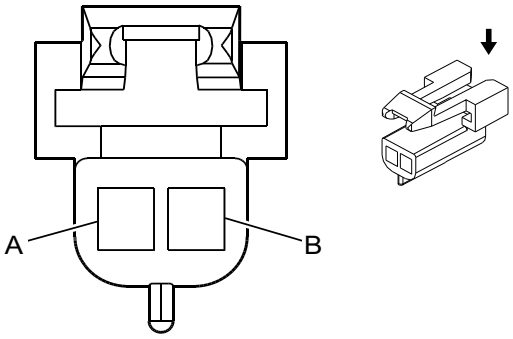
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E21LF Fluorescent Work Lamp - Left Front Access Panel

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU/WH	149	Courtesy Lamp Control	I	—
B	20	BK	150	Ground	I	—

cardiagn.com

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

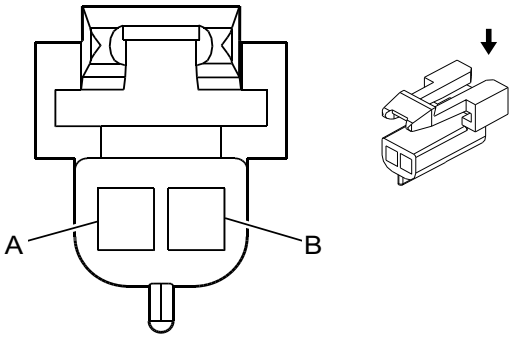
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E21LR Fluorescent Work Lamp - Left Rear Access Panel

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU/WH	149	Courtesy Lamp Control	I	—
B	20	BK	150	Ground	I	—

cardiagn.com

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

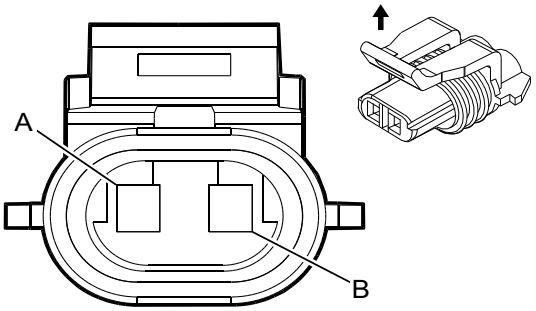
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E21R Fluorescent Work Lamp - Rear Cargo

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU/WH	149	Courtesy Lamp Control	I	—
B	20	BK	150	Ground	I	—

cardiagn.com

E22 Underhood Lamp



537107

Connector Part Information

Harness Type: Underhood Lamp
OEM Connector: 12052644
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 Metri-Pack Series, Sealed (GY)

Terminal Part Information

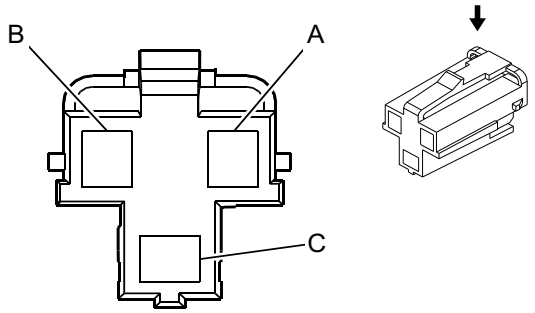
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E22 Underhood Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	OG	1732	Electronic Control Unit 12V Reference 3	I	—
B	0.5	BK	1250	Ground	I	—

cardiagn.com

E32 Cigarette Lighter Receptacle (DT4)



362748

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12176836
Service Connector: 19257374
Description: 3-Way F 280 Metri-Pack Series (GY)

Terminal Part Information

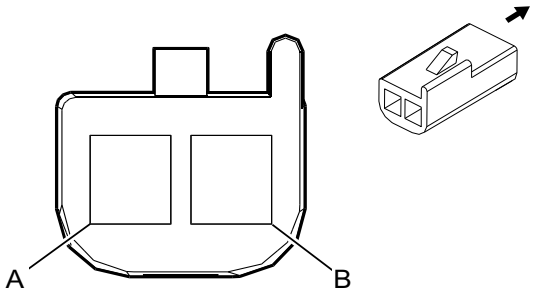
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E32 Cigarette Lighter Receptacle (DT4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	RD/WH	640	Battery Positive Voltage	I	—
B	—	—	—	Not Occupied	—	—
C	1	BK	550	Ground	I	—

cardiagn.com

E36AC Dome Lamp - Left Roof Rail



82383

Connector Part Information

Harness Type: Body
OEM Connector: 12047662
Service Connector: 12085535
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

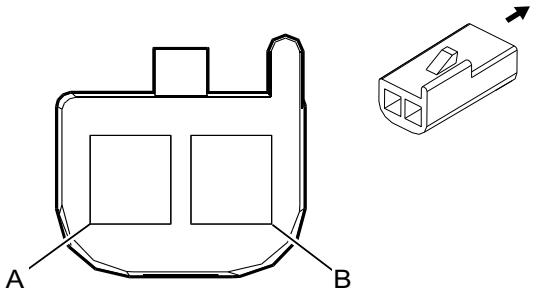
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E36AC Dome Lamp - Left Roof Rail

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU/WH	149	Courtesy Lamp Control	I	—
B	0.8	BK	850	Ground	I	—

cardiagn.com

E36AD Dome Lamp - Right Roof Rail



82383

Connector Part Information

Harness Type: Body
OEM Connector: 12047662
Service Connector: 12085535
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

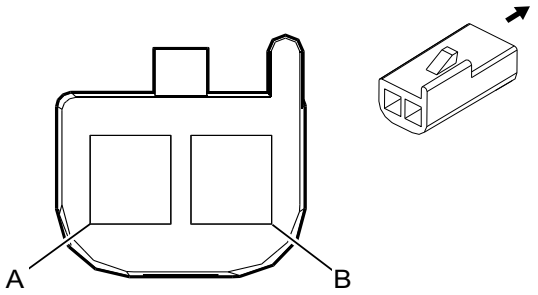
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E36AD Dome Lamp - Right Roof Rail

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU/WH	149	Courtesy Lamp Control	I	—
B	0.8	BK	850	Ground	I	—

cardiagn.com

E36AH Dome Lamp



82383

Connector Part Information

Harness Type: Body
OEM Connector: 12047662
Service Connector: 12085535
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

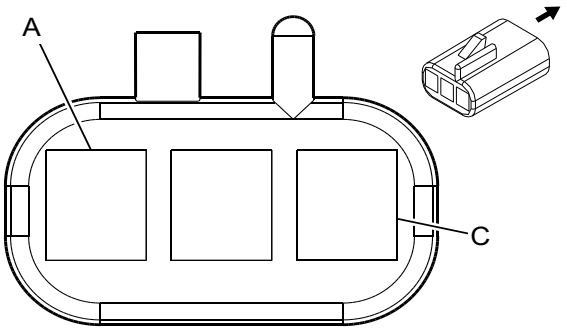
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E36AH Dome Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU/WH	149	Courtesy Lamp Control	I	—
B	0.8	BK	850	Ground	I	—

cardiagn.com

E37F Dome/Reading Lamps - Front



333035

Connector Part Information

Harness Type: Headliner
OEM Connector: 12047781
Service Connector: 13586139
Description: 3-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

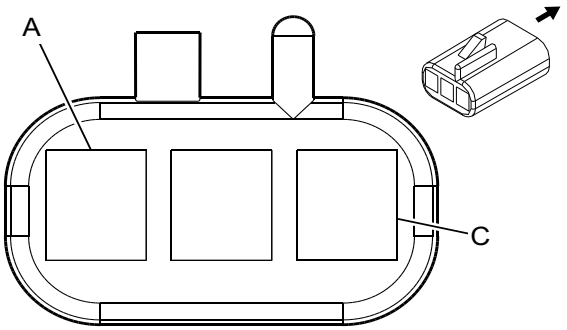
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E37F Dome/Reading Lamps - Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU/WH	149	Courtesy Lamp Control	I	—
B	0.8 1	BK BK	1850 1850	Ground Ground	I I	C69-DH6/YF1 DH6-5BV-YF1/ 5BV+C69
C	0.8	OG	1732	Electronic Control Unit 12V Reference 3	I	—

cardiagn.com

E37M Dome/Reading Lamps - Middle



333035

Connector Part Information

Harness Type: Headliner
OEM Connector: 12047781
Service Connector: 13586139
Description: 3-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

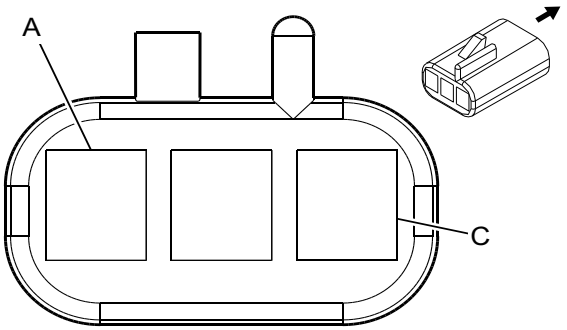
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E37M Dome/Reading Lamps - Middle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU/WH	149	Courtesy Lamp Control	I	—
B	0.5	BK	1050	Ground	I	—
C	0.8	OG	1732	Electronic Control Unit 12V Reference 3	I	—

cardiagn.com

E37R Dome/Reading Lamps - Rear



333035

Connector Part Information

Harness Type: Headliner
OEM Connector: 12047781
Service Connector: 13586139
Description: 3-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

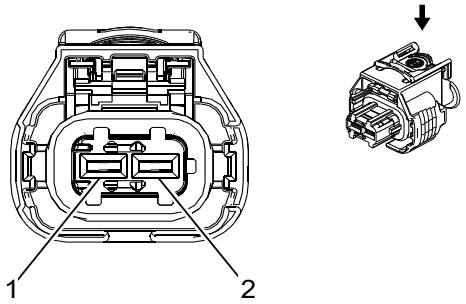
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E37R Dome/Reading Lamps - Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU/WH	149	Courtesy Lamp Control	I	—
B	0.5	BK	1050	Ground	I	—
C	0.8	OG	1732	Electronic Control Unit 12V Reference 3	I	—

cardiagn.com

E45 Positive Crankcase Ventilation Heater



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 13930085
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

Terminal Part Information

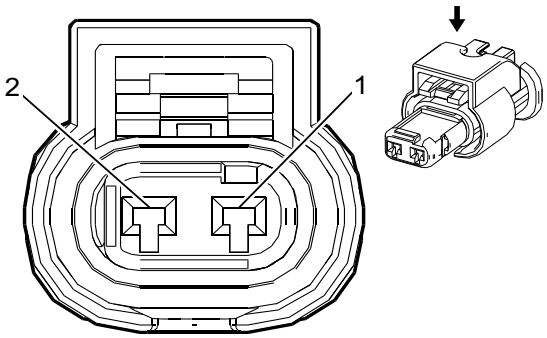
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

E45 Positive Crankcase Ventilation Heater

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/D-BU	1497	Crankcase Ventilation (Blowby) Heater Control Signal	I	—
2	0.5	VT/D-BU	5293	Powertrain Main Relay Fused Supply 4	I	—

cardiagn.com

E52 Reductant Line Heater



2474752

Connector Part Information

Harness Type: Emission Reductant Fluid Tank Reservoir
OEM Connector: 1-1823608-5
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.2 MCP Series, Sealed (BK)

Terminal Part Information

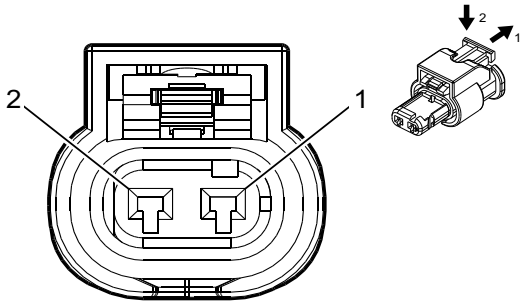
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E52 Reductant Line Heater

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	VT	4319	DEF Line Heater Low Control	I	—
2	—	YE	3922	DEF Heater Supply 2	I	—

cardiagn.com

F101 Passenger Instrument Panel Air Bag



2698576

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13863037
Service Connector: 19368724
Description: 2-Way F 1.2 MCP Series, Sealed (YE)

Terminal Part Information

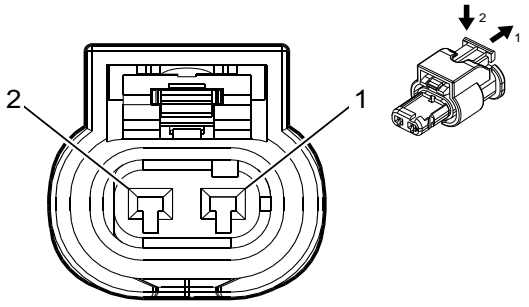
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

F101 Passenger Instrument Panel Air Bag

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	3025	Passenger IP Module Stage 1 High Control	I	—
2	0.5	OG	3024	Passenger IP Module Stage 1 Low Control	I	—

cardiagn.com

F105LF Roof Rail Air Bag - Left Front



2698576

Connector Part Information

Harness Type: Body
OEM Connector: 13863037
Service Connector: 19368724
Description: 2-Way F 1.2 MCP Series, Sealed (YE)

Terminal Part Information

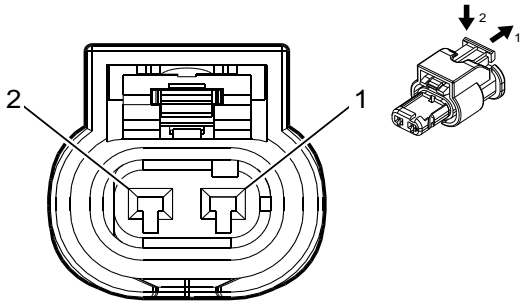
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

F105LF Roof Rail Air Bag - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	PK	5020	Left Front Head Curtain Module Low Control	I	—
2	0.5	PU/WH	5019	Left Front Head Curtain Module High Control	I	—

cardiagn.com

F105RF Roof Rail Air Bag - Right Front



2698576

Connector Part Information

Harness Type: Body
OEM Connector: 13863037
Service Connector: 19368724
Description: 2-Way F 1.2 MCP Series, Sealed (YE)

Terminal Part Information

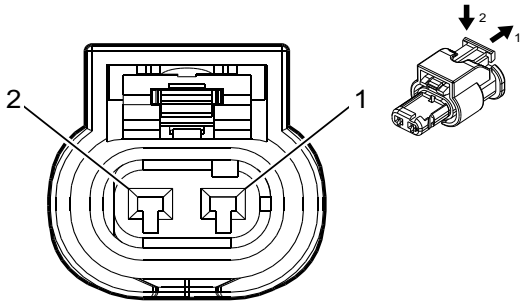
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

F105RF Roof Rail Air Bag - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BK	5022	Right Front Head Curtain Module Low Control	I	—
2	0.5	YE/BK	5021	Right Front Head Curtain Module High Control	I	—

cardiagn.com

F105RR Roof Rail Air Bag - Right Rear



2698576

Connector Part Information

Harness Type: Body
OEM Connector: 13863037
Service Connector: 19368724
Description: 2-Way F 1.2 MCP Series, Sealed (YE)

Terminal Part Information

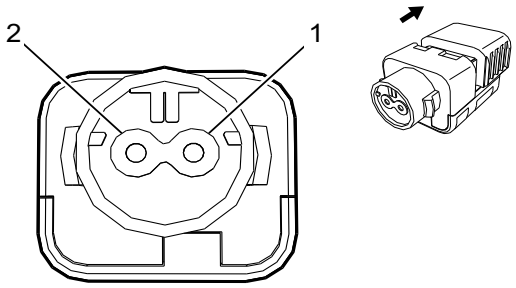
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

F105RR Roof Rail Air Bag - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	TN/BK	7016	Right Rear Head Curtain Module Low Control	I	—
2	0.5	L-BU	7015	Right Rear Head Curtain Module High Control	I	—

cardiagn.com

F106D Seat Side Air Bag - Driver



2282927

Connector Part Information

Harness Type: Driver Seat Air Bag Jumper
OEM Connector: 19153419
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F FPB 180-1 Series (BK with YE Cover)

Terminal Part Information

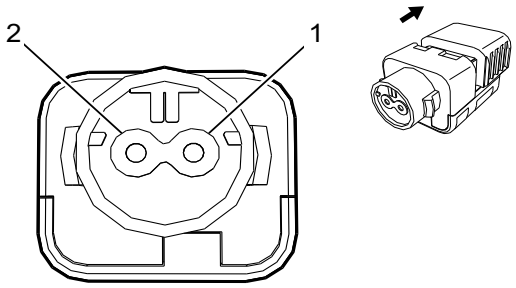
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F106D Seat Side Air Bag - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	BN	2137	Left Front Side Impact Module High Control	I	—
2	—	YE/BK	2138	Left Front Side Impact Module Low Control	I	—

cardiagn.com

F106P Seat Side Air Bag - Passenger



2282927

Connector Part Information

Harness Type: Passenger Seat Air Bag Jumper
OEM Connector: 19153419
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F FPB 180-1 Series (BK with YE Cover)

Terminal Part Information

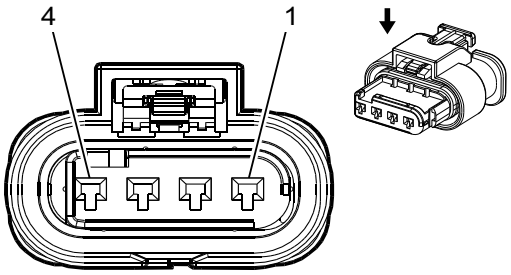
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

F106P Seat Side Air Bag - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	TN/WH	2135	Right Front Side Impact Module High Control	I	—
2	—	L-GN	2136	Right Front Side Impact Module Low Control	I	—

cardiagn.com

F107 Steering Wheel Air Bag



2684560

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13854531
Service Connector: 13586137
Description: 4-Way F 1.2 Series, Sealed (YE)

Terminal Part Information

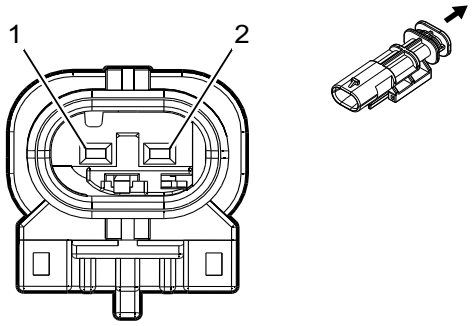
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

F107 Steering Wheel Air Bag

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	TN	3021	Steering Wheel Module Stage 1 High Control	I	—
2	0.5	BN	3020	Steering Wheel Module Stage 1 Low Control	I	—
3 - 4	—	—	—	Not Occupied	—	—

cardiagn.com

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 (YE)

Terminal Part Information

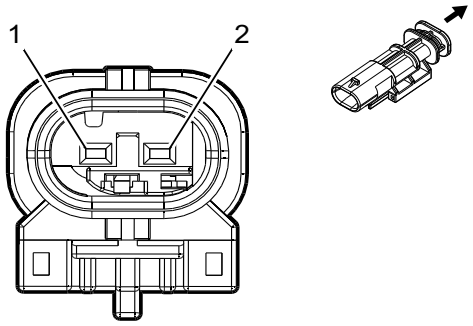
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	I	—

cardiagn.com

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 (YE)

Terminal Part Information

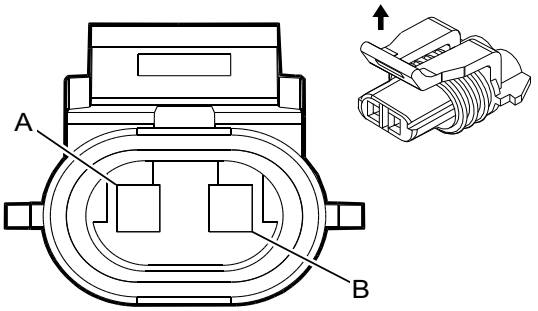
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	I	—
2	—	OG	2117	Passenger Seat Belt Pretensioner Low Control	I	—

cardiagn.com

G7 Coolant Heater Fuel Pump



537107

Connector Part Information

Harness Type: Chassis
OEM Connector: 12052644
Service Connector: 19368034
Description: 2-Way F 150 Metri-Pack Series, Sealed (GY)

Terminal Part Information

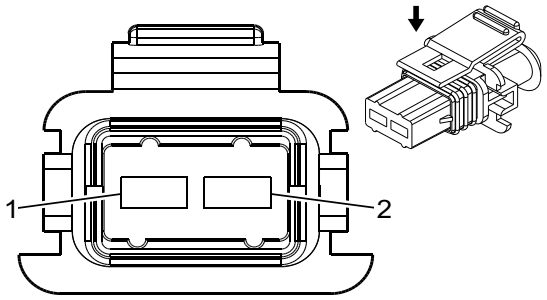
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

G7 Coolant Heater Fuel Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU/L-GN	7077	Fuel Operated Heater Dosing Pump Control	I	—
B	0.8	BK	150	Ground	I	—

cardiagn.com

G13 Generator X1 (L96/LC8)



1522871

Connector Part Information

Harness Type: Engine
OEM Connector: 12186308
Service Connector: 13585849
Description: 2-Way F Junior Power Timer Series, Sealed (BK)

Terminal Part Information

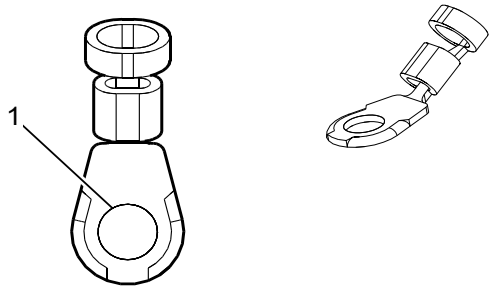
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X1 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG	225	Generator Turn On Signal	I	—
2	0.5	GY	23	Generator Field Duty Cycle Signal	I	—

cardiagn.com

G13 Generator X2 (L96/LC8+K68)



4833641

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12191853
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

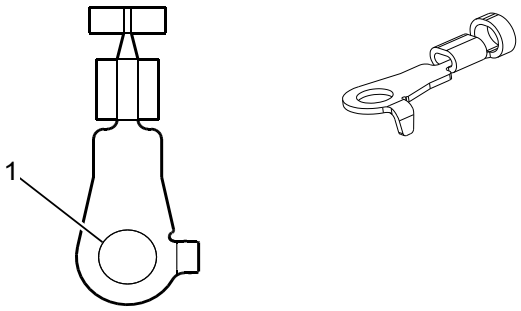
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X2 (L96/LC8+K68)

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

cardiagn.com

G13 Generator X2 (L96/LC8+KG4/KW5)



4833656

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 15544794
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

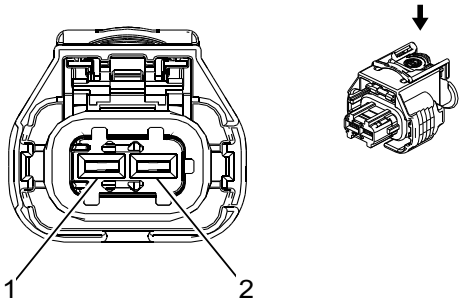
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X2 (L96/LC8+KG4/KW5)

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

cardiagn.com

G13 Generator X1 (LV1)



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 13930085
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

Terminal Part Information

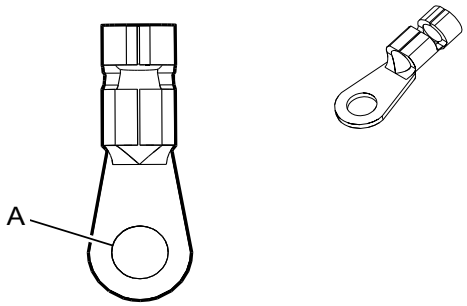
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X1 (LV1)

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

cardiagn.com

G13 Generator X2 (LV1+K68)



2268698

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12129598
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

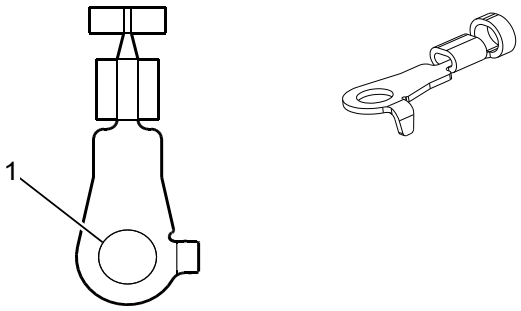
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X2 (LV1+K68)

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

cardiagn.com

G13 Generator X2 (LV1-K68)



4833656

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 15544794
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

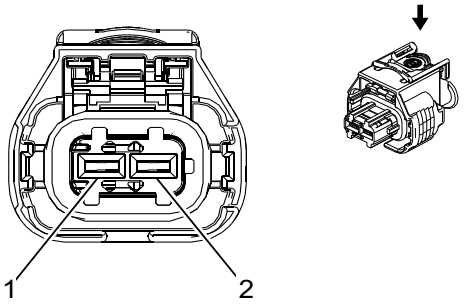
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X2 (LV1-K68)

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

cardiagn.com

G13 Generator X1 (LWN)



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 13930085
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

Terminal Part Information

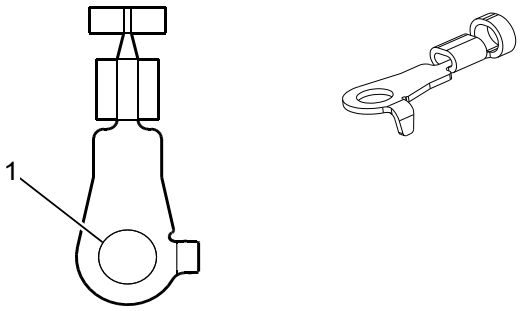
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X1 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	D-BU/WH	225	Generator Turn On Signal	I	—
2	0.75	GY	23	Generator Field Duty Cycle Signal	I	—

cardiagn.com

G13 Generator X2 (LWN)



4833656

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 15544794
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

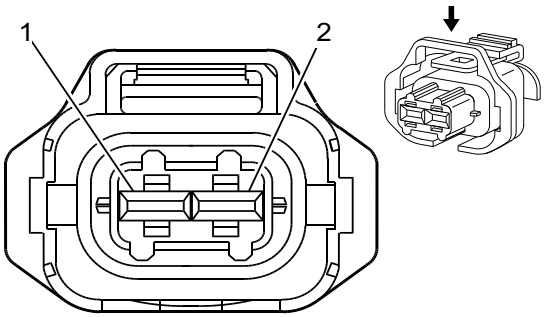
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

G13 Generator X2 (LWN)

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

cardiagn.com

G18 High Pressure Fuel Pump



784092

Connector Part Information

Harness Type: Fuel Injector Jumper
OEM Connector: 1928403874
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 2.8 Kompakt Series, Sealed (BK)

Terminal Part Information

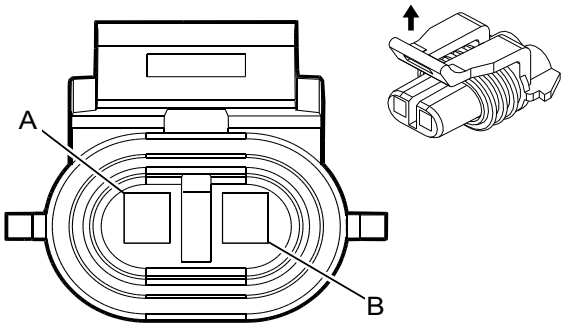
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

G18 High Pressure Fuel Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	YE	7301	High Pressure Fuel Pump Actuator High - Control	I	—
2	—	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control	I	—

cardiagn.com

G24 Windshield Washer Pump



635009

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12052641
Service Connector: 13586114
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

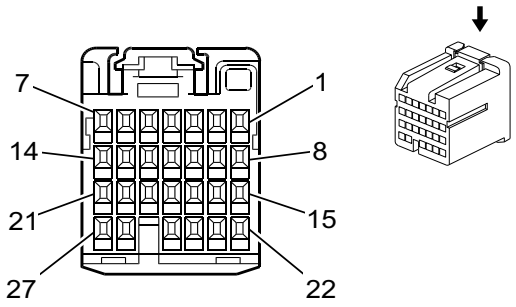
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

G24 Windshield Washer Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	OG	228	Windshield Washer Pump Control	I	—
B	0.5	BK	350	Ground	I	—

cardiagn.com

K9 Body Control Module X1



1664495

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15482789
Service Connector: 88988838
Description: 27-Way F HIT Series (L-GN)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575870	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J
II	13578820	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J

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 Resistor Ladder 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	I	—
17	0.35	PK	1444	12V Reference	I	—
18	0.35	YE	525	Headlamp Dimmer Switch Low Beam Signal	I	—
19	0.35	WH	111	Hazard Switch Signal	I	—
20	0.35	PU/	5526	Tap Up/Tap Down Switch Signal	I	—
21	0.35	BN	4	Accessory Ignition Voltage	I	—

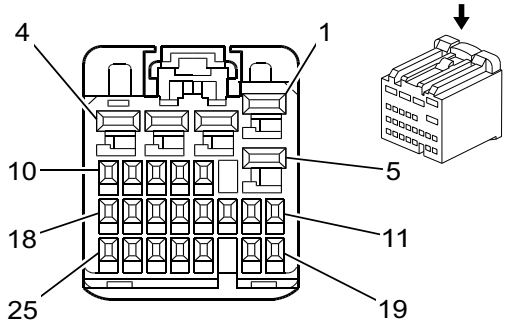
cardiagn.com

K9 Body Control Module X1 (cont'd)

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

cardiagn.com

K9 Body Control Module X2



1664496

Connector Part Information

Harness Type: Instrument Panel
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575870	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J
II	13578820	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J
III	13587507	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	Delphi 20	E	A

K9 Body Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	OG	1732	Electronic Control Unit 12V Reference 3	III	—
2	0.5	RD/WH	2540	Battery Positive Voltage	III	—
3	0.5	BN/WH	230	Instrument Panel Lamp Dimming Control	III	—
4	—	—	—	Not Occupied	—	—
5	0.5 0.8	GY/BK D-BU/WH	690 149	Courtesy Lamp Relay Control Courtesy Lamp Control	III III	5BV -5BV
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 Headlamps Off Signal Control	I	—
18	0.35	D-BU/WH	149	Courtesy Lamp Control	I	—
19 - 20	—	—	—	Not Occupied	—	—
21	0.5	D-BU/	6727	Vehicle Stability Control Off Switch Signal	II	—
22	0.35	D-BU/	38	Backup Lamp Relay Control	I	—

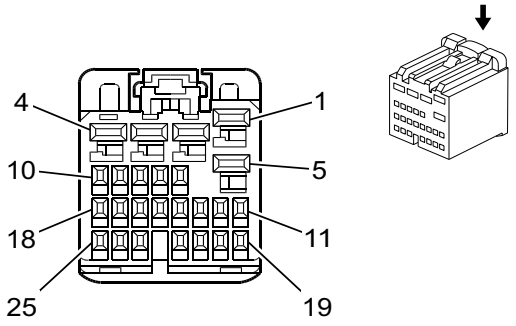
cardiagn.com

K9 Body Control Module X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
23 - 24	—	—	—	Not Occupied	—	—
25	0.35	PU/	328	Interior Lamp Defeat Switch Signal	I	—

cardiagn.com

K9 Body Control Module X3



1664498

Connector Part Information

Harness Type: Instrument Panel
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575870	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J
II	13578820	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J
III	13587507	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	Delphi 20	E	A

K9 Body Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	BK/WH	351	Signal Ground	III	—
2	0.8	RD/WH	2140	Battery Positive Voltage	III	—
3	0.5	RD/WH	3840	Battery Positive Voltage	III	—
4	—	—	—	Not Occupied	—	—
5	0.8	BK/WH	351	Signal Ground	III	—
6 - 7	—	—	—	Not Occupied	—	—
8	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
9	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
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	II	—
14	0.5	BN/WH	5382	Brake Position Sensor Low Reference	II	—
15	0.5	GY	5381	Brake Position Sensor 5V Reference	II	—
16	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
17	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
18	0.5	YE	6817	LED Backlight Dimming Control	II	—

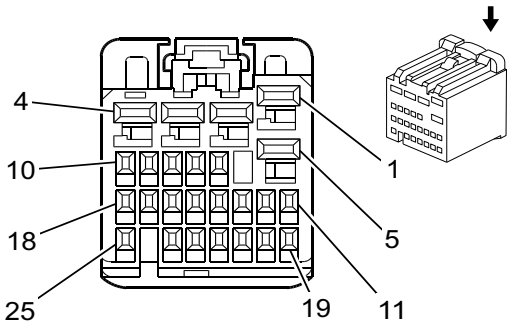
cardiagn.com

K9 Body Control Module X3 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
19	0.5	WH/D-BU	5986	Serial Data Communication Enable	II	—
20 - 21	—	—	—	Not Occupied	—	—
22	0.35	D-GN/WH	7158	Cruise Control Indicator Dimming Signal	I	—
23 - 24	—	—	—	Not Occupied	—	—
25	0.35	WH	6816	Indicator Dimming Control	I	—

cardiagn.com

K9 Body Control Module X4



1664499

Connector Part Information

Harness Type: Instrument Panel
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575870	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J
II	13578820	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J
III	13587507	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	Delphi 20	E	A

K9 Body Control Module X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	RD/WH	2740	Battery Positive Voltage	III	—
2	0.8	RD/WH	3040	Battery Positive Voltage	III	—
3	0.8	RD/WH	2940	Battery Positive Voltage	III	—
4	0.8	RD/WH	2240	Battery Positive Voltage	III	—
5	0.8	D-BU/WH	1315	Right Front Turn Signal Lamp Control	III	—
6	0.35	D-GN	6134	Local Interconnect Network Serial Data 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	II	—
10	0.5	RD/WH	2840	Battery Positive Voltage	II	—
11	0.5	L-GN	1391	Left Front Door Lock Relay Control	II	—
12	0.35	YE	5187	Right Trailer Turn Signal Lamp Control	I	—
13	0.35	OG	5186	Left Trailer Turn Signal Lamp Control	I	—
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	II	—

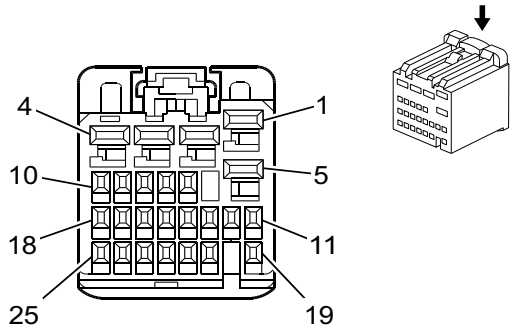
cardiagn.com

K9 Body Control Module X4 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
18	—	—	—	Not Occupied	—	—
19	0.5	D-BU/	5985	Accessory Wakeup Serial Data	II	—
20	0.5	L-BU	1344	Rear Compartment Lid Release Relay Control	II	—
21	0.35	YE	5199	Run/Crank Relay Coil Control	I	—
22	—	—	—	Not Occupied	—	—
23	0.35	PU/	544	DRL Relay Control	I	—
24	0.5	L-BU	244	Passenger Door Lock Switch Lock Control	II	—
25	—	—	—	Not Occupied	—	—

cardiagn.com

K9 Body Control Module X5



1664500

Connector Part Information

Harness Type: Instrument Panel
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575870	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J
II	13578820	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J
III	13587507	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	Delphi 20	C	A
IV	13587507	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	Delphi 20	E	A

K9 Body Control Module X5

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

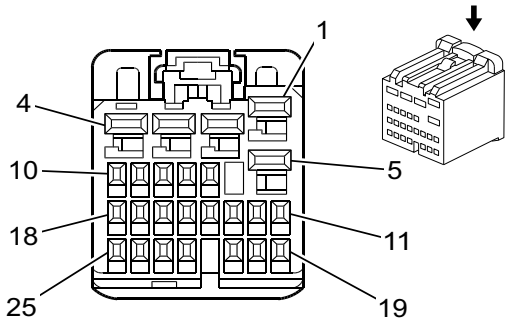
cardiagn.com

K9 Body Control Module X5 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
17	—	—	—	Not Occupied	—	—
18	0.35	TN	28	Horn Relay Control	I	—
19	0.5	YE	5810	Park Enable Signal	II	—
20	0.35	GY	91	Windshield Wiper Motor Relay Coil Control	I	—
21	0.35	TN	860	Front 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	—	—

cardiagn.com

K9 Body Control Module X6



1664502

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15482793
Service Connector: 88988842
Description: 25-Way F HIT Series (PK)

Terminal Part Information

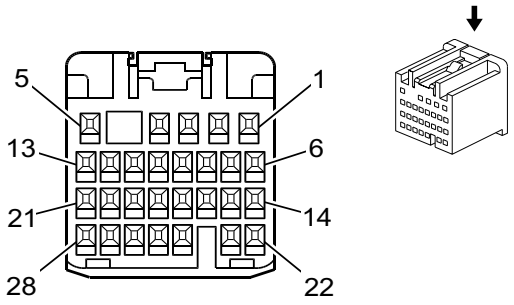
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575870	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J
II	13587507	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	Delphi 20	E	A

K9 Body Control Module X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.8	L-BU	1320	CHMSL Control	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	Lift Gate 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	—	—
22	0.35	L-GN	5926	Rear Access Open Switch Signal	I	—
23 - 25	—	—	—	Not Occupied	—	—

cardiagn.com

K9 Body Control Module X7



1664505

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15466053
Service Connector: 88988806
Description: 28-Way F HIT Series (GY)

Terminal Part Information

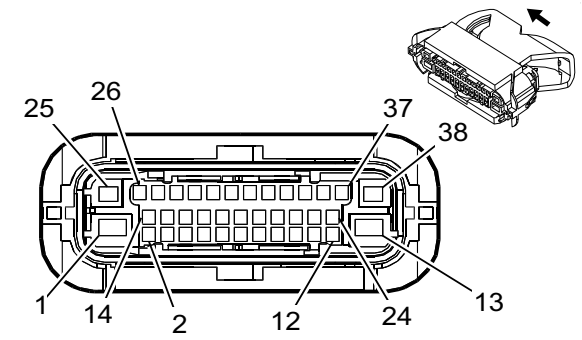
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13578820	J-35616-64B (LT BU)	J-38125-12A	SNAC3-A021T-M0.64	Delphi 20	J	J

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	—	—

cardiagn.com

K17 Electronic Brake Control Module



3638282

Connector Part Information

Harness Type: Chassis
OEM Connector: 13655518
Service Connector: 19303771
Description: 38-Way F 1.5 CTS, 2.8 MCP, 4.8 MCP Series, Sealed (BK with BN Inner Connector)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19329757	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
II	19367600	J-35616-40 (BU)	J-38125-556	Not Available	Not Available	Not Available	Not Available
III	19368624	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available

K17 Electronic Brake Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	5	RD/YE	442	Battery Positive Voltage	II	—
2	—	—	—	Not Occupied	—	—
3	0.5	GY/YE	7128	Wheel Speed Sensor Control Right Rear	I	—
4	0.5	VT	882	Wheel Speed Sensor Signal Right Rear	I	—
5	0.5	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	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
10	0.5	GY/BN	7065	Wheel Speed Sensor Control Right Front	I	—
11	0.5	YE	872	Wheel Speed Sensor Signal Right Front	I	—
12	—	—	—	Not Occupied	—	—
13	5	BK	2150	Ground	II	—
14 - 16	—	—	—	Not Occupied	—	—
17	0.5	L-GN/BN	2087	Combined Vehicle Inertial Sensor Supply Voltage	I	—
18 - 19	—	—	—	Not Occupied	—	—
20	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—

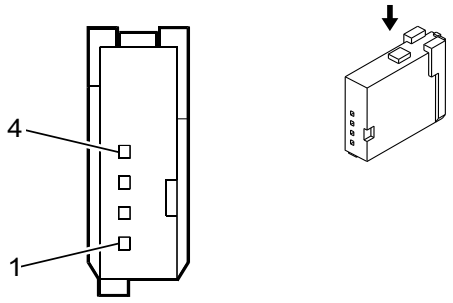
cardiagn.com

K17 Electronic Brake Control Module (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
22 - 24	—	—	—	Not Occupied	—	—
25	2.5	RD/VT	1640	Battery Positive Voltage	III	—
26 - 27	—	—	—	Not Occupied	—	—
28	0.5	WH/D-BU	5986	Serial Data Communication Enable	I	—
29	0.5	GY/BK	7127	Wheel Speed Sensor Control Left Rear	I	—
30	0.5	BU	884	Wheel Speed Sensor Signal Left Rear	I	—
31 - 32	—	—	—	Not Occupied	—	—
33	0.5	D-GN/WH	817	Vehicle Speed Signal	I	—
34	—	—	—	Not Occupied	—	—
35	0.5	GY/WH	7064	Wheel Speed Sensor Control Left Front	I	—
36	0.5	GY	830	Wheel Speed Sensor Signal Left Front	I	—
37	—	—	—	Not Occupied	—	—
38	2.5	BK	2150	Ground	III	—

cardiagn.com

K18 Compass Module



2831061

Connector Part Information

Harness Type: Headliner
OEM Connector: 13820711
Service Connector: 19300398
Description: 4-Way F 0.64 Series (BK)

Terminal Part Information

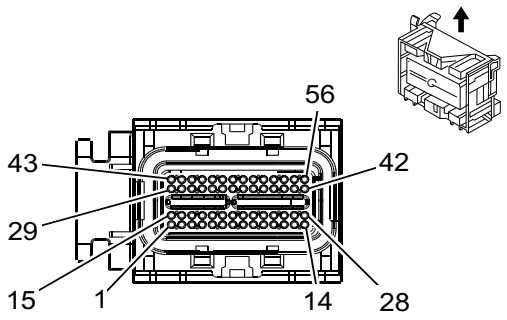
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

K18 Compass Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN	441	Run Ignition 3 Voltage	I	—
2	0.35	BK/WH	351	Signal Ground	I	—
3	0.35	D-GN/	6134	Local Interconnect Network Serial Data Bus 3	I	—
4	—	—	—	Not Occupied	—	—

cardiagn.com

K20 Engine Control Module X1 (L96/LC8)



784851

Connector Part Information

Harness Type: Engine
OEM Connector: 13510837
Service Connector: 88988373
Description: 56-Way F 0.64 Series, Sealed (BU with BU Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available

K20 Engine Control Module X1 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.5	L-BU	1162	Accelerator Pedal Position Signal 2	I	—
3	0.75	L-GN/WH	492	Mass Air Flow Sensor Signal	I	—
4 - 7	—	—	—	Not Occupied	—	—
8	0.75	GY/D-BU	7564	Humidity Sensor Signal	I	—
9	—	—	—	Not Occupied	—	—
10	0.5	D-BU/	1161	Accelerator Pedal Position Signal 1	I	—
11	0.75	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	—
12	0.8	OG/BK	380	A/C Refrigerant Pressure Sensor Signal	I	—
13	0.8	TN	5514	A/C Refrigerant Pressure Sensor Low Reference	I	—
14 - 15	—	—	—	Not Occupied	—	—
16	0.5	TN	1274	Accelerator Pedal Position 5V Reference 2	I	—
17	—	—	—	Not Occupied	—	—
18	0.5	D-BU/	5985	Accessory Wakeup Serial Data	I	—
19	0.5	VT/L-GN	439	Run/Crank Ignition 1 Voltage	I	—
20	0.5	RD/WH	440	Battery Positive Voltage	I	—
21 - 23	—	—	—	Not Occupied	—	—
24	0.5	WH/BK	1164	Accelerator Pedal Position 5V Reference 1	I	—
25	0.75	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	—

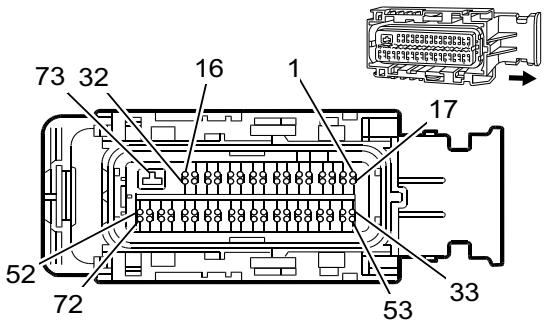
cardiagn.com

K20 Engine Control Module X1 (L96/LC8) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
26	0.8	GY	2700	A/C Pressure Sensor 5V Reference	I	—
27	0.5	YE/BK	625	Starter Enable Relay Control	I	—
28	0.5	D-GN/WH	465	Fuel Pump Primary Relay Control	I	—
29	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
30	0.5	PU/	1272	Accelerator Pedal Position Low Reference 2	I	—
31	0.75	BK/VT	2760	Intake Air Temperature Sensor Low Reference	I	—
32	0.8	L-BU/BK	6813	Coolant Temperature Sensor 2 Low Reference	I	—
33	0.5	L-BU/WH	6311	Cruise/ETC/TCC Brake Signal	I	—
34	0.5	OG/BK	1786	Transmission Park/Neutral Signal 1	I	—
35 - 37	—	—	—	Not Occupied	—	—
38	0.5	BN	1271	Accelerator Pedal Position Low Reference 1	I	—
39	—	—	—	Not Occupied	—	—
40	0.5	YE	5991	Powertrain Relay Coil Control	I	—
41 - 42	—	—	—	Not Occupied	—	—
43	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
44	—	—	—	Not Occupied	—	—
45	0.75	BN/VT	472	Intake Air Temperature Sensor Signal	I	—
46	0.8	L-GN	2032	Coolant Temperature Sensor Signal	I	—
47	0.5	OG	225	Generator Turn On Signal	I	—
48 - 49	—	—	—	Not Occupied	—	—
50	0.5	D-GN/WH	817	Vehicle Speed Signal	I	—
51	—	—	—	Not Occupied	—	—
52	0.5	BN/WH	419	Check Engine Indicator Control	I	—
53	0.5	D-GN/WH	459	A/C Compressor Clutch Relay Control	I	—
54 - 55	—	—	—	Not Occupied	—	—
56	0.5	WH	1310	EVAP Canister Vent Solenoid Control	I	—

cardiagn.com

K20 Engine Control Module X2 (L96/LC8)



1590596

Connector Part Information

Harness Type: Engine
OEM Connector: 15499466
Service Connector: 88988931
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available
II	19368324	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

K20 Engine Control Module X2 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	PU/	2121	Ignition Control 1	I	—
2	0.5	TN	1744	Fuel Injector Control 1	I	—
3	0.5	D-BU/WH	878	Fuel Injector Control 8	I	—
4	0.5	OG/BK	877	Fuel Injector Control 7	I	—
5	0.5	L-GN/BK	1745	Fuel Injector Control 2	I	—
6	0.5	YE/BK	846	Fuel Injector Control 6	I	—
7	0.5	TN/WH	845	Fuel Injector Control 5	I	—
8	0.5	L-BU/BK	844	Fuel Injector Control 4	I	—
9	0.5	PK/BK	1746	Fuel Injector Control 3	I	—
10	—	—	—	Not Occupied	—	—
11	0.8	PU/	5284	Camshaft Phaser Intake Solenoid 1	I	—
12 - 14	—	—	—	Not Occupied	—	—
15	0.5	YE	581	Throttle Actuator Control Open	I	—
16	0.5	BN	582	Throttle Actuator Control Close	I	—
17	0.8	PU/WH	2128	Ignition Control 8	I	—
18	0.8	D-GN/WH	2124	Ignition Control 4	I	—
19	0.8	BN/WH	2130	Ignition Control Low Reference Bank 2	I	—
20	0.8	GY/BK	6272	Crankshaft 60X Sensor Low Reference	I	—
21 - 23	—	—	—	Not Occupied	—	—

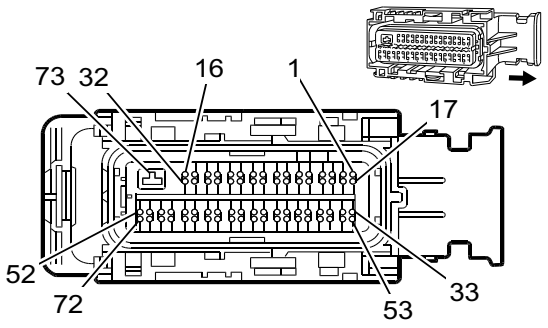
cardiagn.com

K20 Engine Control Module X2 (L96/LC8) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
24	0.8	BN	6266	Camshaft CAM W Ground	I	—
25	0.8	BK	2755	Oil Pressure Sensor Low Reference	I	—
26 - 27	—	—	—	Not Occupied	—	—
28	0.8	PK	1339	Run/Crank Ignition 1 Voltage	I	—
29	0.8	TN	2199	Camshaft Phaser Solenoid Low Reference	I	—
30 - 32	—	—	—	Not Occupied	—	—
33	0.8	OG	2127	Ignition Control 7	I	—
34	0.8	D-GN	2125	Ignition Control 5	I	—
35	0.8	BN	2129	Ignition Control Low Reference Bank 1	I	—
36	0.8	PU/WH	6270	Crankshaft 60X Sensor 5V Reference	I	—
37 - 39	—	—	—	Not Occupied	—	—
40	0.8	D-BU/	6259	Camshaft CAM W Control	I	—
41	0.8	GY	2705	Oil Pressure Sensor 5V Reference	I	—
42	—	—	—	Not Occupied	—	—
43	0.5	GY	2701	Throttle Position Sensor 5V Reference	I	—
44	0.5	TN	2752	Throttle Position Sensor Low Reference	I	—
45	0.5	D-GN	485	Throttle Position Sensor Signal 1	I	—
46	—	—	—	Not Occupied	—	—
47	0.8	TN	1664	Heated Oxygen Sensor Low Signal Bank 1 Sensor 1	I	—
48	0.8	TN	1667	Heated Oxygen Sensor Low Signal Bank 2 Sensor 1	I	—
49	0.8	GY	1716	Knock Sensor Low Reference 1	I	—
50	0.8	GY	2303	Knock Sensor Low Reference 2	I	—
51	—	—	—	Not Occupied	—	—
52	0.8	L-GN	3212	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 1	I	—
53	0.8	OG/WH	2122	Ignition Control 2	I	—
54	0.8	L-BU/WH	2126	Ignition Control 6	I	—
55	0.8	L-BU	2123	Ignition Control 3	I	—
56	0.8	WH/BK	6271	Crankshaft 60X Sensor Signal	I	—
57 - 59	—	—	—	Not Occupied	—	—
60	0.8	D-BU/WH	6265	Camshaft CAM W Signal	I	—
61	0.8	TN/WH	331	Oil Pressure Sensor Signal	I	—
62 - 66	—	—	—	Not Occupied	—	—
67	0.8	PU/WH	1665	Heated Oxygen Sensor High Signal Bank 1 Sensor 1	I	—
68	0.8	PU/	1666	Heated Oxygen Sensor High Signal Bank 2 Sensor 1	I	—
69	0.8	D-BU/	496	Knock Sensor Signal 1	I	—
70	0.8	L-BU	1876	Knock Sensor Signal 2	I	—
71	—	—	—	Not Occupied	—	—
72	0.8	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 1	I	—
73	3	BK/WH	1551	Signal Ground	II	—

cardiagn.com

K20 Engine Control Module X3 (L96/LC8)



1590596

Connector Part Information

Harness Type: Engine
OEM Connector: 15497996
Service Connector: 88988372
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available
II	Not Available	No Tool Required	J-38125-215A	Not Available	Not Available	Not Available	Not Available

K20 Engine Control Module X3 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 9	—	—	—	Not Occupied	—	—
10	0.5	D-GN/WH	428	EVAP Canister Purge Solenoid Control	I	—
11 - 15	—	—	—	Not Occupied	—	—
16	0.8	OG/WH	3223	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 2	I	—
17	0.5	GY	23	Generator Field Duty Cycle Signal	I	—
18 - 21	—	—	—	Not Occupied	—	—
22	0.5	BN	5360	Brake Apply Sensor Low Reference	I	—
23 - 26	—	—	—	Not Occupied	—	—
27	0.5	TN	2759	Fuel Tank Pressure Sensor Low Reference	I	—
28	0.8	GY	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
29	0.8	OG/BK	469	Manifold Absolute Pressure Sensor Low Reference	I	—
30	0.8	TN	2761	Coolant Temperature Sensor Low Reference	I	—
31	—	—	—	Not Occupied	—	—
32	0.8	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	—
33	—	—	—	Not Occupied	—	—
34	—	WH/BK	1579	Fuel Temperature/Composition Signal	II	—

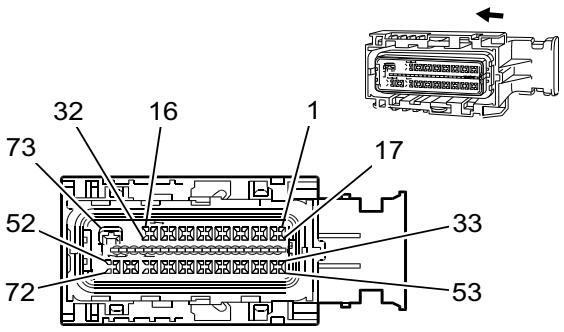
cardiagn.com

K20 Engine Control Module X3 (L96/LC8) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
35 - 37	—	—	—	Not Occupied	—	—
38	0.5	WH	5359	Brake Apply Sensor Control	I	—
39 - 42	—	—	—	Not Occupied	—	—
43	0.5	GY	2709	Fuel Tank Pressure Sensor 5V Reference	I	—
44	—	—	—	Not Occupied	—	—
45	0.8	L-GN	432	Manifold Absolute Pressure Sensor Signal	I	—
46	0.8	YE	410	Engine Coolant Temperature Sensor Signal	I	—
47 - 54	—	—	—	Not Occupied	—	—
55	0.5	OG/BK	6399	Replicated TOS Signal	I	—
56 - 57	—	—	—	Not Occupied	—	—
58	0.5	YE	5361	Brake Apply Sensor Signal	I	—
59 - 62	—	—	—	Not Occupied	—	—
63	0.5	D-GN	890	Fuel Tank Pressure Sensor Signal	I	—
64	0.5	PU/	1589	Primary Fuel Level Sensor Signal	I	—
65	0.8	PU/	1670	Heated Oxygen Sensor High Signal Bank 2 Sensor 2	I	—
66	0.8	TN	1671	Heated Oxygen Sensor Low Signal Bank 2 Sensor 2	I	—
67	0.8	PU/WH	1668	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	—
68	0.8	TN/WH	1669	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	—
69 - 73	—	—	—	Not Occupied	—	—

cardiagn.com

K20 Engine Control Module X1 (LV1)



2470482

Connector Part Information

Harness Type: Engine
OEM Connector: 13611938
Service Connector: 13574782
Description: 73-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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available
II	13579770	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

K20 Engine Control Module X1 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 3	—	—	—	Not Occupied	—	—
4	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	—
5	0.5	GY/WH	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	—
6	0.5	L-GN/	380	A/C Refrigerant Pressure Sensor Signal	I	—
7 - 8	—	—	—	Not Occupied	—	—
9	0.5	BU/WH	890	Fuel Tank Pressure Sensor Signal	I	—
10	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5V Reference	I	—
11 - 12	—	—	—	Not Occupied	—	—
13	0.5	L-GN/BK	735	Outside Ambient Air Temperature Sensor Signal	I	—
14	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	I	—
15	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	I	—
16 - 20	—	—	—	Not Occupied	—	—
21	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	I	—
22	0.5	BK/BN	5514	A/C Refrigerant Pressure Sensor Low Reference	I	—
23 - 24	—	—	—	Not Occupied	—	—
25	0.5	BU/VT	1589	Primary Fuel Level Sensor Signal	I	—
26	0.5	BK/BN	2759	Fuel Tank Pressure Sensor Low Reference	I	—
27 - 29	—	—	—	Not Occupied	—	—

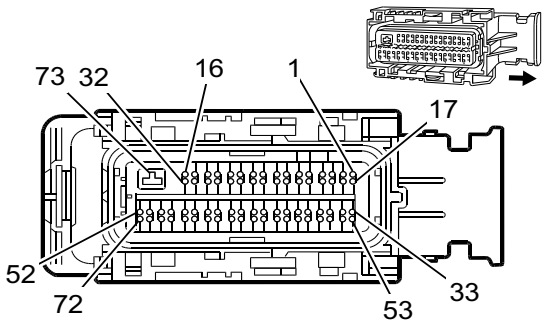
cardiagn.com

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
30	0.5	BK/D-BU	1271	Accelerator Pedal Position Low Reference 1	I	—
31	—	—	—	Not Occupied	—	—
32	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	I	—
33	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	I	—
34	0.5	L-GN/WH	1162	Accelerator Pedal Position Signal 2	I	—
35 - 38	—	—	—	Not Occupied	—	—
39	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
40	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
41	0.5	BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	—
42 - 43	—	—	—	Not Occupied	—	—
44	0.5	L-GN/GY	465	Fuel Pump Primary Relay Control	I	—
45	—	—	—	Not Occupied	—	—
46	0.5	BN/WH	419	Check Engine Indicator Control	I	—
47	0.5	WH	5359	Brake Apply Sensor Control	I	—
48	0.5	D-BU/YE	5361	Brake Apply Sensor Signal	I	—
49 - 50	—	—	—	Not Occupied	—	—
51	0.5	VT/L-GN	439	Run/Crank Ignition 1 Voltage	I	—
52	0.75	RD/WH	440	Battery Positive Voltage	I	—
53	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	I	—
54 - 56	—	—	—	Not Occupied	—	—
57	0.5	WH/D-BU	6311	Cruise/ETC/TCC Brake Signal	I	—
58 - 61	—	—	—	Not Occupied	—	—
62	0.75	VT/GY	1039	Run/Crank Ignition 1 Voltage	I	—
63	0.5	YE/BK	625	Starter Enable Relay Control	I	—
64 - 65	—	—	—	Not Occupied	—	—
66	0.5	WH	1310	EVAP Canister Vent Solenoid Control	I	—
67	0.75	VT/BK	1239	Run/Crank Ignition 1 Voltage	I	—
68	0.5	BK/BN	5360	Brake Apply Sensor Low Reference	I	—
69	—	—	—	Not Occupied	—	—
70	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	—
71	—	—	—	Not Occupied	—	—
72	0.5	YE	5991	Powertrain Relay Coil Control	I	—
73	2.5	VT/GY	1439	Run/Crank Ignition 1 Voltage	II	—

cardiagn.com

K20 Engine Control Module X2 (LV1)



1590596

Connector Part Information

Harness Type: Engine
OEM Connector: 15499466
Service Connector: 88988931
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available
II	19368324	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

K20 Engine Control Module X2 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	BK/L-GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—
4 - 9	—	—	—	Not Occupied	—	—
10	0.5	VT/WH	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor 1	I	—
11	0.5	VT	3210	Heated Oxygen Sensor High Signal Bank 2 Sensor 1	I	—
12	0.5	VT/D-BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	—
13	0.5	VT/L-GN	3220	Heated Oxygen Sensor High Signal Bank 2 Sensor 2	I	—
14	—	—	—	Not Occupied	—	—
15	0.5	D-BU	7564	Humidity Sensor Signal	I	—
16	0.5	BN/WH	582	Throttle Actuator Control Close	I	—
17	—	—	—	Not Occupied	—	—
18	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	I	—
19 - 25	—	—	—	Not Occupied	—	—
26	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor 1	I	—
27	0.5	YE/WH	3211	Heated Oxygen Sensor Low Signal Bank 2 Sensor 1	I	—

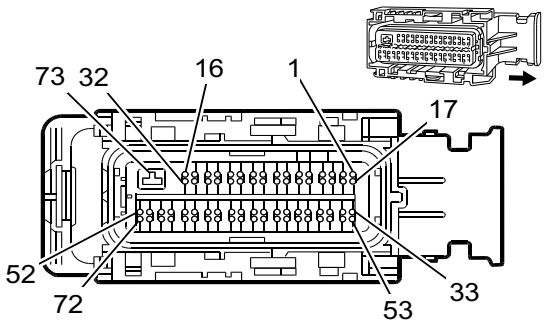
cardiagn.com

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
28	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	—
29	0.5	YE/D-BU	3221	Heated Oxygen Sensor Low Signal Bank 2 Sensor 2	I	—
30 - 31	—	—	—	Not Occupied	—	—
32	0.5	YE	581	Throttle Actuator Control Open	I	—
33	—	—	—	Not Occupied	—	—
34	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	I	—
35	—	—	—	Not Occupied	—	—
36	0.75	VT/GY	496	Knock Sensor Signal 1	I	—
37	0.75	D-BU	1876	Knock Sensor Signal 2	I	—
38 - 40	—	—	—	Not Occupied	—	—
41	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 1	I	—
42	0.5	GY	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	—
43	0.5	L-GN	432	Manifold Absolute Pressure Sensor Signal	I	—
44	0.5	GY	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
45 - 48	—	—	—	Not Occupied	—	—
49	0.5	D-BU	6289	Induction Air Temperature Sensor Signal	I	—
50	—	—	—	Not Occupied	—	—
51	0.5	L-GN/D-BU	428	EVAP Canister Purge Solenoid Control	I	—
52	0.5	YE	492	Mass Air Flow Sensor Signal	I	—
53	0.5	D-BU/WH	225	Generator Turn On Signal	I	—
54	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	I	—
55	0.5	GY	23	Generator Field Duty Cycle Signal	I	—
56	0.75	GY	1716	Knock Sensor Low Reference 1	I	—
57	0.75	BK/GY	2303	Knock Sensor Low Reference 2	I	—
58	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	I	—
59	0.5	D-BU/BK	179	Oil Pump Command Signal	I	—
60	0.5	BN/L-GN	1174	Oil Level Switch Signal	I	—
61	0.5	L-GN	3212	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 1	I	—
62	0.5	WH/BN	3223	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 2	I	—
63	0.5	OG/BK	469	Manifold Absolute Pressure Sensor Low Reference	I	—
64	—	—	—	Not Occupied	—	—
65	0.5	BK/YE	407	Sensor Low Reference	I	—
66 - 68	—	—	—	Not Occupied	—	—
69	0.5	WH/YE	3202	Throttle Inlet Absolute Pressure Sensor Low Reference	I	—
70	0.5	D-BU/WH	3630	Throttle Position Sensor (SENT1) Signal	I	—
71 - 72	—	—	—	Not Occupied	—	—
73	3	BK/WH	1551	Signal Ground	II	—

cardiagn.com

K20 Engine Control Module X3 (LV1)



1590596

Connector Part Information

Harness Type: Engine
OEM Connector: 15497996
Service Connector: 88988372
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available
II	19368324	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

K20 Engine Control Module X3 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BN	331	Oil Pressure Sensor Signal	I	—
2	0.5	WH/RD	2705	Oil Pressure Sensor 5V Reference	I	—
3 - 7	—	—	—	Not Occupied	—	—
8	0.5	BU	410	Engine Coolant Temperature Sensor Signal	I	—
9	—	—	—	Not Occupied	—	—
10	0.5	VT/D-BU	6270	Crankshaft 60X Sensor 5V Reference	I	—
11 - 12	—	—	—	Not Occupied	—	—
13	0.5	BU/WH	2122	Ignition Control 2	I	—
14	0.5	L-GN/D-BU	2123	Ignition Control 3	I	—
15	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	—
16	0.75	YE	7301	High Pressure Fuel Pump Actuator High - Control	I	—
17	0.5	BK/VT	2755	Oil Pressure Sensor Low Reference	I	—
18 - 23	—	—	—	Not Occupied	—	—
24	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	—
25	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	I	—
26	0.5	L-GN	6271	Crankshaft 60X Sensor Signal	I	—
27	0.5	YE/D-BU	2124	Ignition Control 4	I	—
28	0.5	BU/GY	2125	Ignition Control 5	I	—

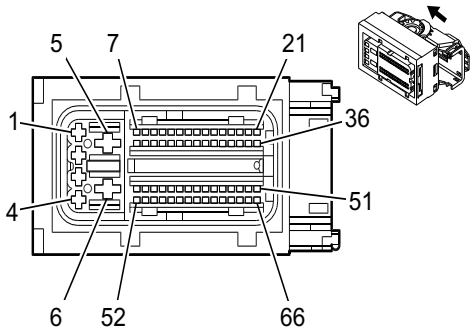
cardiagn.com

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
29	0.5	BN/D-BU	2126	Ignition Control 6	I	—
30	0.5	BU/VT	2121	Ignition Control 1	I	—
31	0.5	BK/D-BU	2129	Ignition Control Low Reference Bank 1	I	—
32	0.75	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control	I	—
33	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	I	—
34	0.5	GY/D-BU	5300	Camshaft Position Intake Sensor Control 1	I	—
35 - 38	—	—	—	Not Occupied	—	—
39	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	I	—
40 - 45	—	—	—	Not Occupied	—	—
46	0.75	D-BU/	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	—
47	0.75	L-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	—
48	0.75	VT/L-GN	4806	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	I	—
49	—	—	—	Not Occupied	—	—
50	0.75	WH/L-GN	4805	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	I	—
51	0.75	BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	—
52	0.75	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	—
53	0.5	BK/L-GN	5301	Camshaft Position Intake Sensor Low Reference 1	I	—
54 - 58	—	—	—	Not Occupied	—	—
59	0.5	BK/BN	6753	Cam Phaser W Low Reference	I	—
60 - 65	—	—	—	Not Occupied	—	—
66	0.75	BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	—
67	0.75	L-GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	—
68	0.75	VT/GY	4906	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	I	—
69	—	—	—	Not Occupied	—	—
70	0.75	L-GN/WH	4905	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	I	—
71	0.75	BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	—
72	0.75	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	—
73	3	BK/WH	1551	Signal Ground	II	—

cardiagn.com

K20 Engine Control Module X1 (LWN)



2498868

Connector Part Information

Harness Type: Engine
OEM Connector: 35059716
Service Connector: 19370822
Description: 66-Way F 0.64 MTS-B, 2.8 ATS, 6.3 Ducon Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13579752	J-35616-4A (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13584448	J-35616-64B (LT BU)	J-38125-12A	1719532-5	Lear 7	J	J
III	13584530	J-35616-4A (PU)	J-38125-36	4-964273-1	Yazaki 15	C	5
IV	19369848	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

K20 Engine Control Module X1 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	VT/GY	1439	Run/Crank Ignition 1 Voltage	III	—
2	0.5	VT/D-BU	5291	Powertrain Main Relay Fused Supply 2	I	—
3	0.5	VT/D-BU	5292	Powertrain Main Relay Fused Supply 3	I	—
4	0.5	RD/BN	440	Battery Positive Voltage	I	—
5	6	RD/YE	2	Battery Positive Voltage	IV	—
6	6	BK/WH	451	Signal Ground	IV	—
7	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	—
8 - 10	—	—	—	Not Occupied	—	—
11	0.5	BU/YE	6861	Water In Fuel Sensor Signal	II	—
12	—	—	—	Not Occupied	—	—
13	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	II	—
14	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	II	—
15	0.5	L-GN/WH	1162	Accelerator Pedal Position Signal 2	II	—
16	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	II	—
17	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	II	—
18	0.5	BN/WH	419	Check Engine Indicator Control	II	—

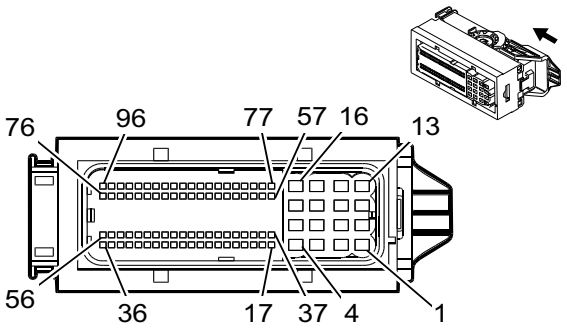
cardiagn.com

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
19	0.5	L-GN/BN	507	Wait To Start Indicator Control	II	—
20	—	—	—	Not Occupied	—	—
21	0.5	YE	2928	Fuel Metering Valve High Control	II	—
22	0.5	VT/L-GN	439	Run/Crank Ignition 1 Voltage	II	—
23	0.5	WH/D-BU	6311	Cruise/ETC/TCC Brake Signal	II	—
24	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	II	—
25	0.5	L-GN/WH	492	Mass Air Flow Sensor Signal	II	—
26	0.5	BU/VT	2364	Cooling Fan Speed Signal	II	—
27	0.5	BK/D-BU	1271	Accelerator Pedal Position Low Reference 1	II	—
28	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	II	—
29 - 32	—	—	—	Not Occupied	—	—
33	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	II	—
34 - 35	—	—	—	Not Occupied	—	—
36	0.5	BN/BK	2929	Fuel Metering Valve Low Control	II	—
37 - 38	—	—	—	Not Occupied	—	—
39	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	II	—
40	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
41 - 42	—	—	—	Not Occupied	—	—
43	0.5	BK/BN	5360	Brake Apply Sensor Low Reference	II	—
44	0.5	WH	5359	Brake Apply Sensor Control	II	—
45	0.5	WH/D-BU	6289	Induction Air Temperature Sensor Signal	II	—
46	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	II	—
47	0.5	L-GN	380	A/C Refrigerant Pressure Sensor Signal	II	—
48	0.5	BK/BN	5514	A/C Refrigerant Pressure Sensor Low Reference	II	—
49	—	—	—	Not Occupied	—	—
50	0.5	L-GN/GY	465	Fuel Pump Primary Relay Control	II	—
51	0.5	YE	5991	Powertrain Relay Coil Control	II	—
52 - 53	—	—	—	Not Occupied	—	—
54	0.5	D-BU/BK	7493	High Speed GMLAN Serial Data (+)3	II	—
55	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
56 - 58	—	—	—	Not Occupied	—	—
59	0.5	D-BU/YE	5361	Brake Apply Sensor Signal	II	—
60	0.5	BK/VT	2760	Intake Air Temperature Sensor Low Reference	II	—
61 - 63	—	—	—	Not Occupied	—	—
64	0.75	VT/BN	2927	Hydrocarbon Injector Low Control	II	—
65	—	—	—	Not Occupied	—	—
66	0.5	YE/BK	625	Starter Enable Relay Control	II	—

cardiagn.com

K20 Engine Control Module X2 (LWN)



4115094

Connector Part Information

Harness Type: Engine
OEM Connector: 35059745
Service Connector: 19370825
Description: 96-Way F 0.64 MTS-B, 2.8 ATS Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13584448	J-35616-64B (LT BU)	J-38125-12A	1719532-5	Lear 7	J	J
II	13584530	J-35616-4A (PU)	J-38125-36	4-964273-1	Yazaki 15	C	5
III	13584530	J-35616-4A (PU)	J-38125-36	4-964273-1	Yazaki 15	E	1

K20 Engine Control Module X2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	D-BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	III	—
2	1.5	L-GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	III	—
3	1.5	D-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	III	—
4	1.5	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	III	—
5	1.5	D-BU/	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	III	—
6	1.5	L-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	III	—
7	1.5	GY/D-BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	III	—
8	1.5	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	III	—
9 - 12	—	—	—	Not Occupied	—	—
13	2	GY/BN	1582	Glow Plug Control 2	II	—
14	2	GY/YE	1584	Glow Plug Control 4	II	—
15	2	GY/L-GN	1583	Glow Plug Control 3	II	—

cardiagn.com

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
16	2	GY/D-BU	1581	Glow Plug Control 1	II	—
17	0.5	BK/VT	2755	Oil Pressure Sensor Low Reference	I	—
18	0.5	YE/BN	331	Oil Pressure Sensor Signal	I	—
19	0.5	WH/RD	2705	Oil Pressure Sensor 5V Reference	I	—
20 - 25	—	—	—	Not Occupied	—	—
26	0.5	BN	9348	Induction Air Temperature Sensor 3 Signal	I	—
27	0.5	BN/GY	7072	Sensor Fuel Temperature 1 Signal	I	—
28 - 29	—	—	—	Not Occupied	—	—
30	0.5	D-BU/	410	Engine Coolant Temperature Sensor Signal	I	—
31	0.5	BN	3681	Charge Air Cooler Outlet Temperature Sensor Signal	I	—
32	0.5	L-GN	3683	Charge Air Cooler Inlet Temperature Sensor Signal	I	—
33	—	—	—	Not Occupied	—	—
34	0.75	D-BU/WH	225	Generator Turn On Signal	I	—
35 - 37	—	—	—	Not Occupied	—	—
38	0.5	BN/YE	2161	Fuel Rail Pressure Sensor 2 Signal	I	—
39	—	—	—	Not Occupied	—	—
40	0.5	GY/D-BU	5300	Camshaft Position Intake Sensor Control 1	I	—
41	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	I	—
42	0.5	BK/L-GN	5301	Camshaft Position Intake Sensor Low Reference 1	I	—
43	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	I	—
44	0.5	D-BU/WH	3630	Throttle Position Sensor (SENT1) Signal	I	—
45	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	I	—
46	—	—	—	Not Occupied	—	—
47	0.5	BN/WH	7073	Sensor Fuel Temperature 1 Low Reference	I	—
48 - 49	—	—	—	Not Occupied	—	—
50	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	—
51	0.5	YE/D-BU	3680	Charge Air Cooler Outlet Temperature Sensor Low Reference	I	—
52	0.5	YE/BK	3682	Charge Air Cooler Inlet Temperature Sensor Low Reference	I	—
53 - 55	—	—	—	Not Occupied	—	—
56	0.75	BN/D-BU	2926	Hydrocarbon Injector High Control	I	—
57	0.5	BK/BN	2753	Exhaust Gas Recirculation Sensor Low Reference	I	—
58	0.5	BN/WH	5763	Exhaust Gas Recirculation Valve Sensor Signal	I	—
59	0.5	D-BU/RD	5047	Exhaust Gas Recirculation 5V Reference 1	I	—
60	0.5	BK/BN	6141	Cooling Fan Speed Low Reference	I	—
61	—	—	—	Not Occupied	—	—
62	0.5	GY/RD	2365	Cooling Fan Speed 5V Reference	I	—
63 - 66	—	—	—	Not Occupied	—	—
67	0.75	GY	23	Generator Field Duty Cycle Signal	I	—
68	—	—	—	Not Occupied	—	—
69	0.5	BK/L-GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—

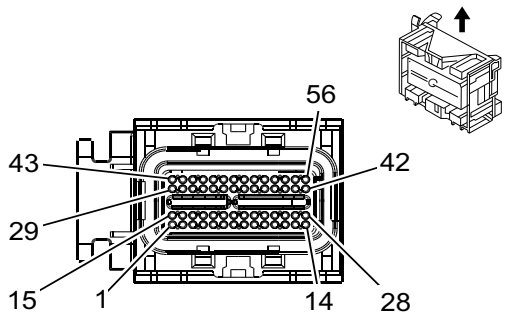
cardiagn.com

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
70	0.5	VT/BK	5746	Exhaust Gas Recirculation Valve Motor Low Signal	I	—
71	0.5	WH/VT	5764	Exhaust Gas Recirculation Valve Motor High Signal	I	—
72	0.5	GY/D-BU	5930	Variable Nozzle Turbo Solenoid High Signal	I	—
73	0.5	WH/BK	5931	Variable Nozzle Turbo Solenoid Low Signal	I	—
74 - 75	—	—	—	Not Occupied	—	—
76	0.5	BK/YE	2834	Fuel Rail Pressure Solenoid Low Reference	I	—
77 - 79	—	—	—	Not Occupied	—	—
80	0.5	BK/L-GN	469	Manifold Absolute Pressure Sensor Low Reference	I	—
81	0.5	L-GN/WH	432	Manifold Absolute Pressure Sensor Signal	I	—
82	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
83	0.5	VT/D-BU	6270	Crankshaft 60X Sensor 5V Reference	I	—
84	0.5	L-GN	6271	Crankshaft 60X Sensor Signal	I	—
85	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	I	—
86	0.5	BN/L-GN	1174	Oil Level Switch Signal	I	—
87	—	—	—	Not Occupied	—	—
88	0.5	D-BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	—
89	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	I	—
90	0.5	BN/WH	582	Throttle Actuator Control Close	I	—
91	0.5	YE	581	Throttle Actuator Control Open	I	—
92 - 93	—	—	—	Not Occupied	—	—
94	0.5	YE/D-BU	3231	Exhaust Gas Recirculation Cooler Bypass Solenoid Control	I	—
95	0.5	GY/D-BU	3230	Exhaust Gas Recirculation Cooler Bypass Solenoid Control	I	—
96	0.5	D-BU/WH	2530	Fuel Rail Pressure Solenoid Control	I	—

cardiagn.com

K20 Engine Control Module X3 (LWN)



784851

Connector Part Information

Harness Type: Engine
OEM Connector: 13510837
Service Connector: 88988373
Description: 56-Way F 0.64 Series, Sealed (BU with BU Terminal Position Assurance)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available

K20 Engine Control Module X3 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	3100	DEF Dosing Valve Low Control	I	—
2	—	—	—	Not Occupied	—	—
3	0.5	BK/L-GN	6281	Fuel Level Sensor Low Reference	I	—
4 - 5	—	—	—	Not Occupied	—	—
6	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	—
7	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	—
8	0.5	BK/YE	407	Sensor Low Reference	I	—
9	0.5	BK/VT	3661	Exhaust Gas Temperature Sensor 5 Low Reference	I	—
10	0.5	BK/D-BU	6274	Exhaust Gas Recirculation Temperature Sensor Low Reference	I	—
11	0.5	BK/GY	3659	Exhaust Gas Temperature Sensor 4 Low Reference	I	—
12	0.5	BK/L-GN	3657	Exhaust Gas Temperature Sensor 3 Low Reference	I	—
13	0.5	BK/D-BU	6783	Exhaust Gas Temperature Sensor 2 Low Reference	I	—
14	0.5	D-BU/WH	5277	Exhaust Gas Temperature Sensor 1	I	—
15	0.5	BN	3099	DEF Dosing Valve High Control	I	—
16 - 17	—	—	—	Not Occupied	—	—
18	0.5	BU/VT	1589	Primary Fuel Level Sensor Signal	I	—

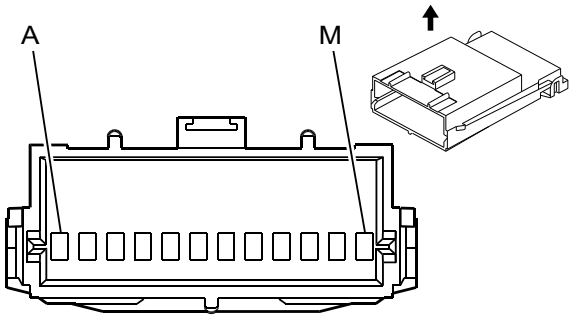
cardiagn.com

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
19	0.5	BK/YE	6275	Exhaust Gas Recirculation Temperature Sensor 2 Low Reference	I	—
20	0.5	YE/L-GN	3236	Exhaust Gas Recirculation Temperature Sensor 2 Signal	I	—
21	0.5	GY/RD	5928	Variable Nozzle Turbo Position Sensor 5V Reference	I	—
22	0.5	L-GN/BK	735	Outside Ambient Air Temperature Sensor Signal	I	—
23	0.5	D-BU/GY	3660	Exhaust Gas Temperature Sensor 5 Signal	I	—
24	0.5	WH/BN	3237	Exhaust Gas Recirculation Temperature Sensor Signal	I	—
25	0.5	VT/BN	3658	Exhaust Gas Temperature Sensor 4 Signal	I	—
26	0.5	GY/L-GN	5378	Exhaust Gas Temperature Sensor 3	I	—
27	0.5	BK/BN	6782	Exhaust Gas Temperature Sensor 1 Low Reference	I	—
28	0.5	D-BU/L-GN	5377	Exhaust Gas Temperature Sensor 2	I	—
29	—	—	—	Not Occupied	—	—
30	0.5	YE/D-BU	1497	Crankcase Ventilation (Blowby) Heater Control Signal	I	—
31	—	—	—	Not Occupied	—	—
32	0.5	BN/GY	4008	Humidity Sensor Signal	I	—
33	0.5	BK/BN	5929	Variable Nozzle Turbo Position Sensor Low Reference	I	—
34 - 42	—	—	—	Not Occupied	—	—
43	0.5	L-GN/D-BU	3889	DEF Power Module Relay Control	I	—
44	—	—	—	Not Occupied	—	—
45	0.5	BU	3017	Fuel Heater Relay Control 1	I	—
46	0.5	VT/YE	5947	Variable Nozzle Turbo Position Sensor Signal	I	—
47 - 49	—	—	—	Not Occupied	—	—
50	0.5	WH/RD	6054	Exhaust Pressure Sensor 5V Reference 1	I	—
51	0.5	D-BU/	6053	Exhaust Pressure Sensor Signal 1	I	—
52	0.5	BK/YE	6055	Exhaust Pressure Sensor Low Reference 1	I	—
53 - 56	—	—	—	Not Occupied	—	—

cardiagn.com

K33A HVAC Control Module - Auxiliary



328486

Connector Part Information

Harness Type: Headliner
OEM Connector: 12040747
Service Connector: 12101938
Description: 12-Way P/C Edgeboard Standard Series (BK)

Terminal Part Information

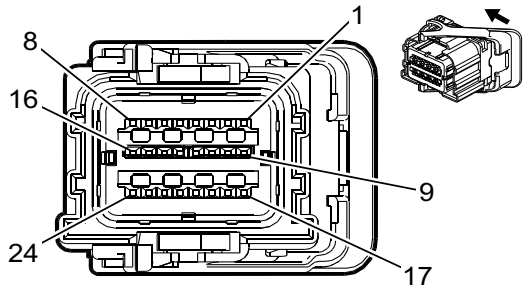
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19330178	J-35616-4A (PU)	J-38125-12A	12040511	Delphi 3	E	A

K33A HVAC Control Module - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	PU/	5260	Dual Logic Module Front Temperature Signal	I	—
B	0.35	OG	2775	Rear Air Temperature Motor Control	I	—
C	0.35	BN	5263	Dual Logic Module Rear Temperature Signal	I	—
D	0.35	PU/WH	5264	Dual Logic Module Rear Mode Signal	I	—
E	0.35	TN	5261	Dual Logic Module Front Mode Signal	I	—
F	0.35	GY	2599	Rear Mode Motor Signal	I	—
G	—	—	—	Not Occupied	—	—
H	0.35	BK	1850	Ground	I	—
J	0.35	BN	341	Run Ignition 3 Voltage	I	—
K	—	—	—	Not Occupied	—	—
L	0.35	PK/BK	5265	Dual Logic Module Rear Control Signal	I	—
M	0.35	YE	5262	Dual Logic Module Rear Control Enable Signal	I	—

cardiagn.com

K36 Inflatable Restraint Sensing and Diagnostic Module X1



3240106

Connector Part Information

Harness Type: Body
OEM Connector: 13859806
Service Connector: 13579314
Description: 24-Way F 0.64 Series, Sealed (YE)

Terminal Part Information

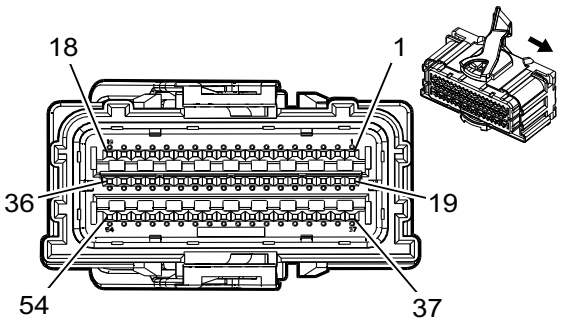
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19328872	J-35616-64B (LT BU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	19368490	J-35616-64B (LT BU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

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 Module Stage 1 Low Control	II	—
4	0.5	TN	3021	Steering Wheel Module Stage 1 High Control	II	—
5	0.5	YE	3025	Passenger IP Module Stage 1 High Control	II	—
6	0.5	OG	3024	Passenger IP Module Stage 1 Low Control	II	—
7 - 8	—	—	—	Not Occupied	—	—
9	0.5	RD/WH	3440	Battery Positive Voltage	II	—
10 - 12	—	—	—	Not Occupied	—	—
13	0.5	PK	353	Passenger IP Module Suppression Indicator Control	II	—
14	0.5	TN/BK	371	Passenger IP Module Disable Switch Signal	II	—
15	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	—
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	II	—
20 - 24	—	—	—	Not Occupied	—	—

cardiagn.com

K36 Inflatable Restraint Sensing and Diagnostic Module X2



2817420

Connector Part Information

Harness Type: Body
OEM Connector: 13914358
Service Connector: 19301526
Description: 54-Way F 0.64 Series, Sealed (YE)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19368490	J-35616-64B (LT BU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	Not Available	No Tool Required	J-38125-215A	Not Available	Not Available	Not Available	Not Available

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 Head Curtain Module Low Control	I	—
12	0.5	L-BU	7015	Right Rear Head Curtain Module High Control	I	—
13	0.5	BN	2137	Left Front Side Impact Module High Control	I	—
14	0.5	YE/BK	2138	Left Front Side Impact Module Low Control	I	—
15	0.5	L-GN	2136	Right Front Side Impact Module Low Control	I	—
16	0.5	TN/WH	2135	Right Front Side Impact Module High Control	I	—
17	0.5	PU/WH	5019	Left Front Head Curtain Module High Control	I	—
18	0.5	PK	5020	Left Front Head Curtain Module Low Control	I	—
19	0.5	WH	2132	Left Front Side Impact Sensing Module Signal	I	—
20	0.5	PU/WH	6628	Left Front Side Impact Sensing Module Low Reference	I	—
21	0.5	WH/BK	6629	Right Front Side Impact Sensing Module Low Reference	I	—
22	0.5	D-GN	2134	Right Front Side Impact Sensing Module Signal	I	—
23 - 24	—	—	—	Not Occupied	—	—
25	0.5	D-BU/WH	6619	Middle Front Discriminating Sensor Low Reference	I	—
26	0.5	BN/WH	6618	Middle Front Discriminating Sensor Signal	I	—
27	0.5	D-GN/WH	6620	Left Middle Side Impact Sensing Module Signal	I	—

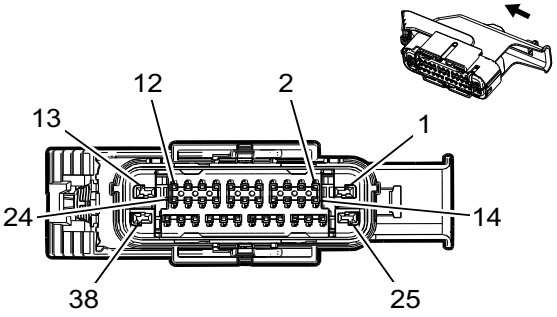
cardiagn.com

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
28	0.5	GY/BK	6621	Left Middle Side Impact Sensing Module Low Reference	I	—
29	0.5	L-GN/WH	6625	Right Middle Side Impact Sensing Module Low Reference	I	—
30	0.5	L-BU/BK	6624	Right Middle Side Impact Sensing Module 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 Head Curtain Module High Control	I	—
54	0.5	WH/BK	5022	Right Front Head Curtain Module Low Control	I	—

cardiagn.com

K38 Chassis Control Module



2546969

Connector Part Information

Harness Type: Chassis
OEM Connector: 13638773
Service Connector: 13574909
Description: 38-Way F 0.64, 2.8, 6.3 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575408	J-35616-4A (PU)	J-38125-553	Not Available	Not Available	Not Available	Not Available
II	13578883	J-35616-64B (LT BU)	J-38125-215A	SAITS-A03T-M064	Yazaki 14	9	9

K38 Chassis Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	3	RD/WH	1940	Battery Positive Voltage	I	—
2 - 4	—	—	—	Not Occupied	—	—
5	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
6	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
7	—	—	—	Not Occupied	—	—
8	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	—
9	—	—	—	Not Occupied	—	—
10	0.5	BU/WH	7446	Fuel Line Pressure Sensor Signal	II	—
11 - 12	—	—	—	Not Occupied	—	—
13	2.5	GY	120	Fuel Pump Control	I	—
14 - 16	—	—	—	Not Occupied	—	—
17	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
18	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
19	—	—	—	Not Occupied	—	—
20	0.5	L-GN/GY	465	Fuel Pump Primary Relay Control	II	—
21	0.5	VT/GY	2739	Run/Crank Ignition 1 Voltage	II	—
22	0.5	BN/RD	7445	Fuel Line Pressure Sensor 5V Reference	II	—
23	0.5	BK/YE	7447	Fuel Line Pressure Sensor Low Reference	II	—
24	0.5	BK	1350	Ground	II	—

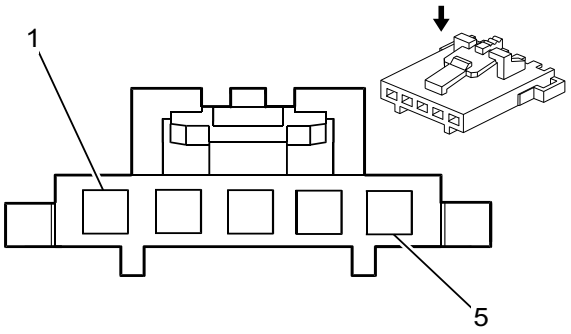
cardiagn.com

K38 Chassis Control Module (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
25	2	BK	2150	Ground	I	—
26 - 37	—	—	—	Not Occupied	—	—
38	2.5	BK/L-GN	1580	Fuel Pump Low Reference	I	—

cardiagn.com

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

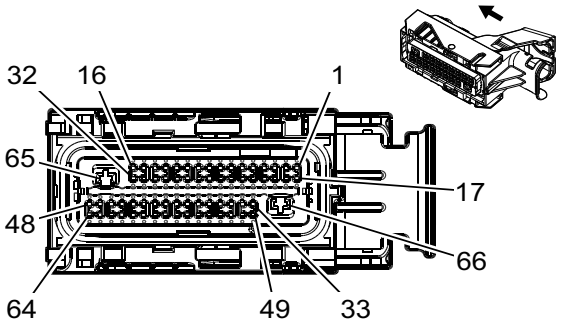
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

K64 Content Theft Deterrent Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	RD/WH	540	Battery Positive Voltage	I	—
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	—	—

cardiagn.com

K71 Transmission Control Module (LV1)



3621452

Connector Part Information

Harness Type: Engine
OEM Connector: 33168232
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available
II	13579769	J-35616-4A (PU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

K71 Transmission Control Module (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/	4507	Transmission Clutch H Control	I	—
2	0.5	BU/WH	6401	Clutch B Control	I	—
3	0.5	GY/L-GN	6403	Clutch D Control	I	—
4 - 6	—	—	—	Not Occupied	—	—
7	0.5	VT/WH	4170	Transmission Position Sensor B 9V Reference	I	—
8	0.5	VT	4171	Transmission Position Sensor A 9V Reference	I	—
9 - 12	—	—	—	Not Occupied	—	—
13	0.5	L-GN/VT	4510	Transmission Intermediate Speed Signal	I	—
14	0.5	GY/D-BU	6358	Output Speed Signal	I	—
15	0.5	L-GN	6353	Input Speed Signal	I	—
16	—	—	—	Not Occupied	—	—
17	0.5	WH	4508	Transmission Clutch G Control	I	—
18	0.5	BN	6400	Clutch A Control	I	—
19	0.5	GY	6402	Clutch C Control	I	—
20	0.5	YE	6404	Clutch E Control	I	—
21	0.5	L-GN/WH	6380	TCC On/Off Solenoid A Control	I	—
22	0.5	YE/BN	6210	TCC On/Off Solenoid B Control	I	—
23 - 24	—	—	—	Not Occupied	—	—
25	0.5	WH/BK	3927	IMS Mode Switch Low Reference	I	—

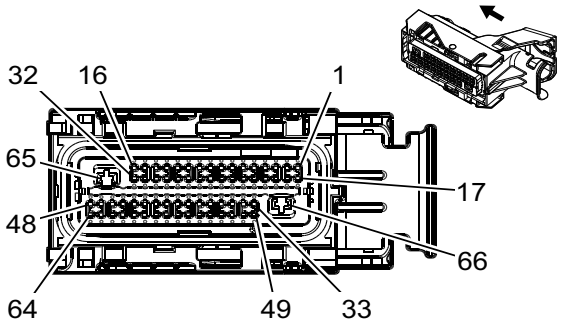
cardiagn.com

K71 Transmission Control Module (LV1) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
26 - 27	—	—	—	Not Occupied	—	—
28	0.5	OG/BK	586	Transmission Oil Temperature Sensor Low Reference	I	—
29 - 32	—	—	—	Not Occupied	—	—
33	0.5	L-GN/GY	6387	Transmission High Side Driver 1 Signal Driver	I	—
34	—	—	—	Not Occupied	—	—
35	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	—
36	—	—	—	Not Occupied	—	—
37	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
38	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
39 - 46	—	—	—	Not Occupied	—	—
47	0.5	GY/YE	4169	PRNDL S Signal	I	—
48	—	—	—	Not Occupied	—	—
49	0.75	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—
50	—	—	—	Not Occupied	—	—
51	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	—
52	—	—	—	Not Occupied	—	—
53	0.5	BU/WH	2500	High Speed GMLAN Serial Data (+) 1	I	—
54	0.5	WH/BK	2501	High Speed GMLAN Serial Data (-) 1	I	—
55 - 58	—	—	—	Not Occupied	—	—
59	0.5	GY/WH	4168	PRNDL P Signal	I	—
60	0.5	WH	5983	PRNDL C Signal	I	—
61	0.5	GY/BN	5982	PRNDL B Signal	I	—
62	0.5	VT/D-BU	5981	PRNDL A Signal	I	—
63	0.5	BN/WH	585	Transmission Oil Temperature Sensor Signal	I	—
64	—	—	—	Not Occupied	—	—
65	0.75	BK/WH	1551	Signal Ground	II	—
66	0.75	RD/WH	1840	Battery Positive Voltage	II	—

cardiagn.com

K71 Transmission Control Module (LWN)



3621452

Connector Part Information

Harness Type: Engine
OEM Connector: 33168232
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575812	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available
II	13579769	J-35616-4A (PU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

K71 Transmission Control Module (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/D-BU	4507	Transmission Clutch H Control	I	—
2	0.5	D-BU/	6401	Clutch B Control	I	—
3	0.5	GY/L-GN	6403	Clutch D Control	I	—
4 - 6	—	—	—	Not Occupied	—	—
7	0.5	YE/L-GN	4170	Transmission Position Sensor B 9V Reference	I	—
8	0.5	YE/D-BU	4171	Transmission Position Sensor A 9V Reference	I	—
9 - 12	—	—	—	Not Occupied	—	—
13	0.5	L-GN/VT	4510	Transmission Intermediate Speed Signal	I	—
14	0.5	GY/D-BU	6358	Output Speed Signal	I	—
15	0.5	L-GN/YE	6353	Input Speed Signal	I	—
16	—	—	—	Not Occupied	—	—
17	0.5	WH	4508	Transmission Clutch G Control	I	—
18	0.5	BN	6400	Clutch A Control	I	—
19	0.5	GY	6402	Clutch C Control	I	—
20	0.5	YE/BN	6404	Clutch E Control	I	—
21	0.5	L-GN/WH	6380	TCC On/Off Solenoid A Control	I	—
22	0.5	YE/BN	6210	TCC On/Off Solenoid B Control	I	—
23 - 24	—	—	—	Not Occupied	—	—
25	0.5	BK/GY	3927	IMS Mode Switch Low Reference	I	—

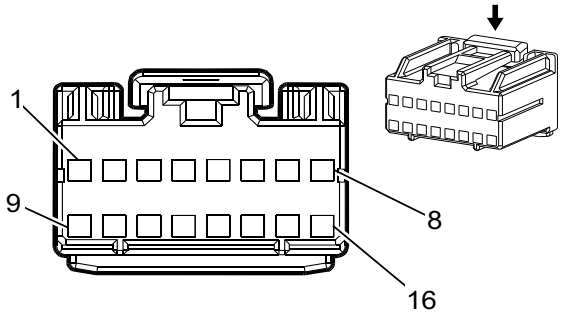
cardiagn.com

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
26 - 27	—	—	—	Not Occupied	—	—
28	0.5	BK/BN	586	Transmission Oil Temperature Sensor Low Reference	I	—
29 - 32	—	—	—	Not Occupied	—	—
33	0.5	L-GN/GY	6387	Transmission High Side Driver 1 Signal Driver	I	—
34	—	—	—	Not Occupied	—	—
35	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	—
36	—	—	—	Not Occupied	—	—
37	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
38	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
39 - 46	—	—	—	Not Occupied	—	—
47	0.5	GY/YE	4169	PRNDL S Signal	I	—
48	—	—	—	Not Occupied	—	—
49	0.75	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—
50	—	—	—	Not Occupied	—	—
51	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	—
52	—	—	—	Not Occupied	—	—
53	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
54	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
55 - 58	—	—	—	Not Occupied	—	—
59	0.5	GY/WH	4168	PRNDL P Signal	I	—
60	0.5	WH/BK	5983	PRNDL C Signal	I	—
61	0.5	GY/BN	5982	PRNDL B Signal	I	—
62	0.5	VT/WH	5981	PRNDL A Signal	I	—
63	0.5	BN/WH	585	Transmission Oil Temperature Sensor Signal	I	—
64	—	—	—	Not Occupied	—	—
65	0.75	BK/WH	1551	Signal Ground	II	—
66	0.75	RD/L-GN	1840	Battery Positive Voltage	II	—

cardiagn.com

K73 Telematics Communication Interface Control Module X1



1471689

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15431362
Service Connector: 15306351
Description: 16-Way F 100A Micro-Pack Series (NA)

Terminal Part Information

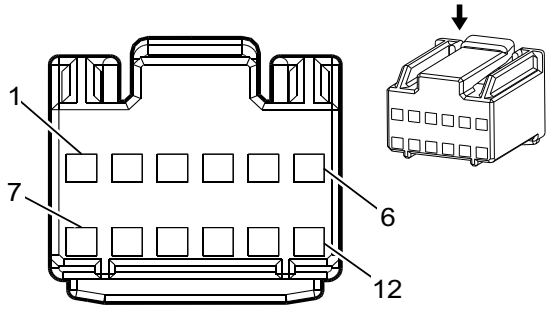
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575548	J-35616-16 (LT GN)	J-38125-559	15445905	Delphi 23	J	J
II	13575548	J-35616-16 (LT GN)	J-38125-559	15445905	Delphi 23	K	K

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	Keypad Red LED Control	II	—
3	0.8	YE/BK	2516	Keypad Green LED Control	II	—
4 - 5	—	—	—	Not Occupied	—	—
6	0.8	L-GN/BK	2515	Keypad Control	II	—
7	0.8	BK/WH	351	Signal Ground	II	—
8 - 9	—	—	—	Not Occupied	—	—
10	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
11	0.8	D-GN/WH	2514	Keypad Signal	II	—
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	II	—
16	—	—	—	Not Occupied	—	—

cardiagn.com

K73 Telematics Communication Interface Control Module X2



1471691

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15431365
Service Connector: 88952886
Description: 12-Way F 100A Micro-Pack Series (NA)

Terminal Part Information

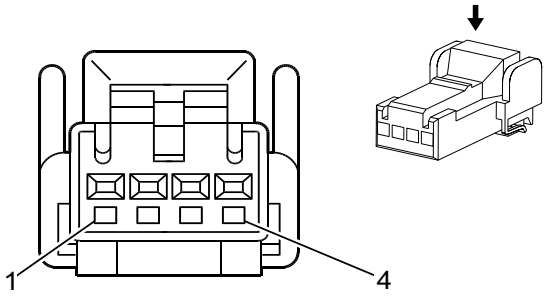
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575546	J-35616-16 (LT GN)	J-38125-559	15445905	Delphi 23	J	J
II	13575548	J-35616-16 (LT GN)	J-38125-559	15445905	Delphi 23	J	J
III	13575548	J-35616-16 (LT GN)	J-38125-559	15445905	Delphi 23	K	K

K73 Telematics Communication Interface Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.8	D-BU/ D-BU/	658 658	Cellular Telephone Voice Signal Cellular Telephone Voice Signal	I III	UE1+UI8 UE1-UI8-UL5
2	0.35 0.8	L-BU/BK L-BU/BK	659 659	Cellular Telephone Voice Low Reference Cellular Telephone Voice Low Reference	I III	UE1+UI8 UE1-UI8-UL5
3	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
4	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
5	0.35	Bare	1792	Low Reference	I	—
6	0.35	PK	5149	Voice Recognition Audio Signal	I	—
7	—	—	—	Not Occupied	—	—
8	0.35 0.8	Bare Bare	1782 1792	Low Reference Low Reference	I III	UE1+UI8 UE1-UI8-UL5
9	0.8	GY	655	Cellular Telephone Microphone Signal	III	—
10	0.8	D-GN/	654	Cellular Telephone Microphone Low Reference	III	—
11	—	—	—	Not Occupied	—	—
12	0.35	PK/BK	5152	Voice Recognition Audio Low Reference	I	—

cardiagn.com

K77 Remote Control Door Lock Receiver



1673483

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15462684
Service Connector: 13585474
Description: 4-Way F IL-AG5 Series (GN)

Terminal Part Information

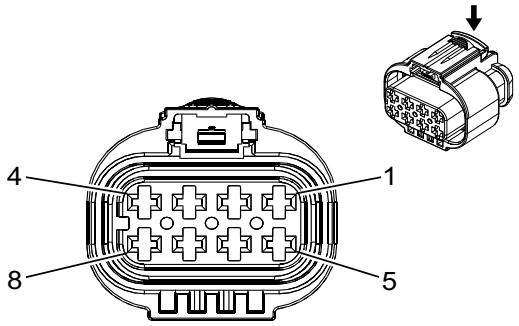
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

K77 Remote Control Door Lock Receiver

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

cardiagn.com

K115 Reductant Control Module X1



3749581

Connector Part Information

Harness Type: Chassis
OEM Connector: 15530717
Service Connector: 19370092
Description: 8-Way F 2.8 Series, Sealed (BK)

Terminal Part Information

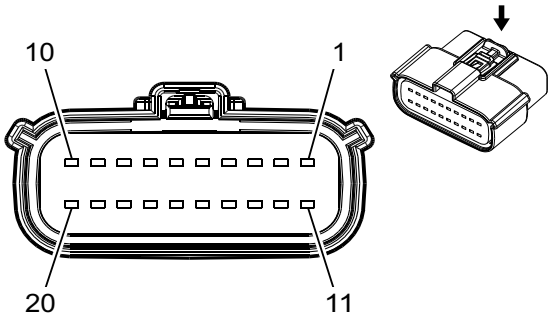
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

K115 Reductant Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/L-GN	2440	Battery Positive Voltage	II	—
2	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	I	—
3	0.5	D-BU/BK	7493	High Speed GMLAN Serial Data (+)3	I	—
4	1.5	BK	150	Ground	II	—
5	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	—
6	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	I	—
7	0.5	D-BU/BK	7493	High Speed GMLAN Serial Data (+)3	I	—
8	2.5	D-BU/	3921	DEF Heater Supply 1	II	—

cardiagn.com

K115 Reductant Control Module X2



2871898

Connector Part Information

Harness Type: Emission Reductant Fluid Tank Reservoir
OEM Connector: 33472-2006
Service Connector: Service by Harness - See Part Catalog
Description: 20-Way F 150 MX Series, Sealed (BK)

Terminal Part Information

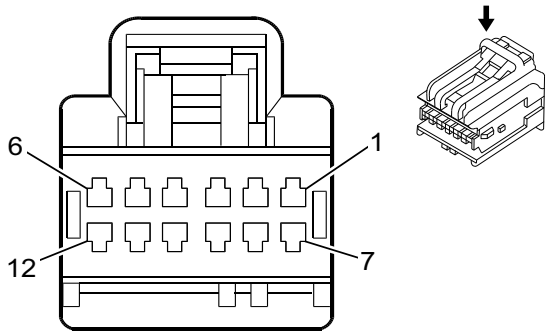
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

K115 Reductant Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	OG	3103	DEF Smart Pump Control	I	—
2	—	GN	3875	DEF Smart Pump Control Phase 2	I	—
3	—	BU	3876	DEF Smart Pump Control Phase 3	I	—
4	—	VT	4318	DEF Tank Heater Low Control	I	—
5	—	BK	3104	DEF Smart Pump Low Reference	I	—
6	—	OG	7285	Diesel Exhaust Fluid Liquid Quality Temperature Sensor Low Reference	I	—
7	—	YE	3922	DEF Heater Supply 2	I	—
8	—	—	—	Not Occupied	—	—
9	—	OG	3244	DEF Tank Temperature Sensor Signal	I	—
10	—	GN	3245	DEF Tank Temperature Sensor Low Reference	I	—
11	—	YE	3921	DEF Heater Supply 1	I	—
12	—	BU	3106	DEF Pressure Sensor 5V Reference	I	—
13	—	GY	3108	DEF Pressure Sensor Signal	I	—
14	—	YE	3107	DEF Pressure Sensor Low Reference	I	—
15	—	VT	6136	Control	I	—
16	—	BU	3028	DEF Tank Level Sensor Signal	I	—
17	—	VT	3029	DEF Tank Level Sensor Low Reference	I	—
18	—	GN	7487	Sensor Signal	I	—
19	—	YE	53	Diesel Exhaust Fluid Quality Signal	I	—
20	—	VT	4319	DEF Line Heater Low Control	I	—

cardiagn.com

K182 Parking Assist Control Module X1



1664569

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13784026
Service Connector: 13578574
Description: 12-Way F 0.64 Series (BK)

Terminal Part Information

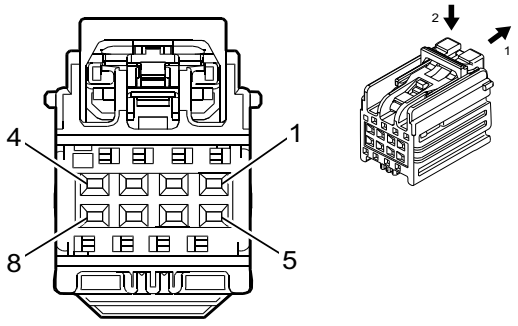
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575549	J-35616-16 (LT GN)	J-38125-559	15445905	Delphi 23	J	J
II	13575550	J-35616-16 (LT GN)	J-38125-559	15445905	Delphi 23	J	J

K182 Parking Assist Control Module X1

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

cardiagn.com

K182 Parking Assist Control Module X2



4280711

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 33183559
Service Connector: 19355209
Description: 8-Way F YESC Kaizen Series (GY)

Terminal Part Information

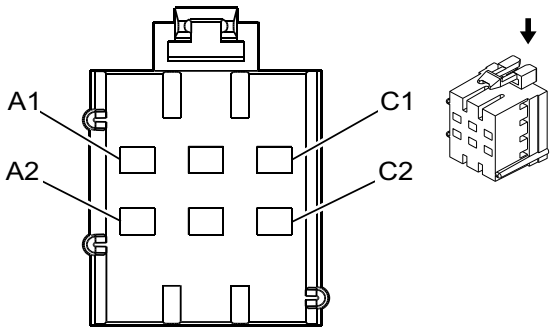
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

K182 Parking Assist Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/VT	2378	Right Rear Corner Object Sensor Signal	I	—
2	0.5	YE/WH	2377	Right Rear Middle Object Sensor Signal	I	—
3	0.5	YE/D-BU	2376	Left Rear Middle Object Sensor Signal	I	—
4	0.5	BN/WH	2374	Object Sensor Control	I	—
5	0.5	YE	2375	Left Rear Corner Object Sensor Signal	I	—
6 - 7	—	—	—	Not Occupied	—	—
8	0.5	BK/GY	2379	Object Sensor Low Reference	I	—

cardiagn.com

KR32B Blower Motor High Speed Relay - Auxiliary



309518

Connector Part Information

Harness Type: Auxiliary HVAC
OEM Connector: 12129715
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 280 Metri-Pack Flexlock Series (GY)

Terminal Part Information

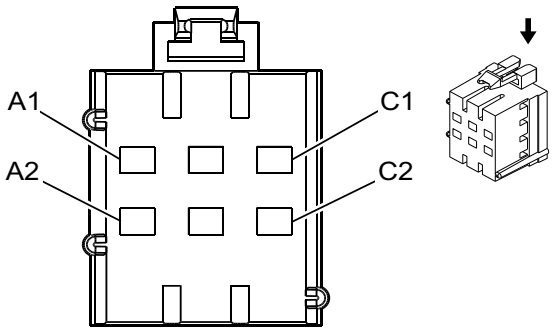
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	—

cardiagn.com

KR32C Blower Motor Low Speed Relay - Auxiliary



309518

Connector Part Information

Harness Type: Auxiliary HVAC
OEM Connector: 12129715
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 280 Metri-Pack Flexlock Series (GY)

Terminal Part Information

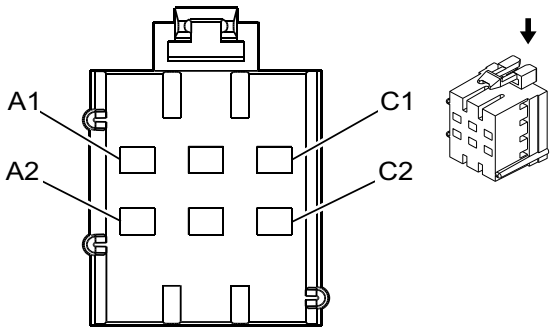
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	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	—

cardiagn.com

KR32D Blower Motor Medium Speed Relay - Auxiliary



309518

Connector Part Information

Harness Type: Auxiliary HVAC
OEM Connector: 12129715
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 280 Metri-Pack Flexlock Series (GY)

Terminal Part Information

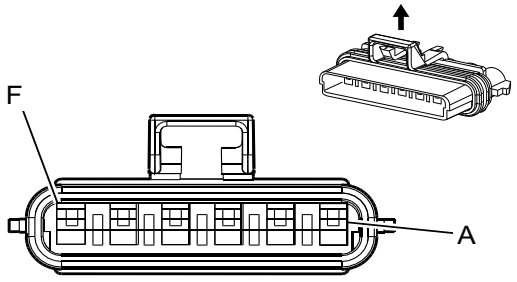
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	I	—
A2	3	L-BU	1072	Auxiliary Blower Motor Medium 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	—

cardiagn.com

KR32E Blower Motor Relay



535914

Connector Part Information

Harness Type: Engine
OEM Connector: 12160746
Service Connector: 15306007
Description: 6-Way F 280 Metri-Pack Flexlock Series, Sealed (L-GY)

Terminal Part Information

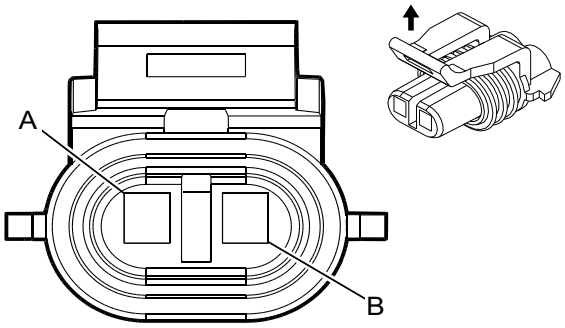
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

KR32E Blower Motor Relay

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	RD/BK	542	Battery Positive Voltage	I	—
B	0.8	OG	52	High Blower Motor Control	I	—
C	5	BK	1250	Ground	I	—
D	0.8	TN	63	Medium Blower Motor Control 1	I	—
E	0.8	YE	60	Low Blower Motor Control	I	—
F	2	L-BU	72	Medium 2 Blower Motor Control	I	—

cardiagn.com

KR81 Auxiliary Battery Relay 1 X1



635009

Connector Part Information

Harness Type: Engine
OEM Connector: 12052641
Service Connector: 13586114
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

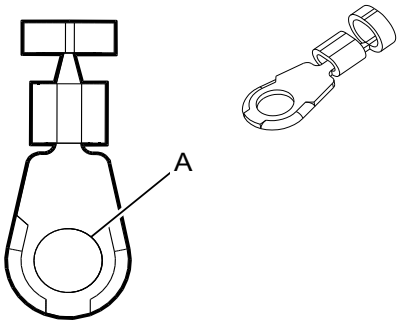
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

KR81 Auxiliary Battery Relay 1 X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	RD/WH	4892	Auxiliary Battery Relay Control	I	—
B	0.5	BK/WH	1551	Signal Ground	I	LV1
	0.8	BK/WH	1551	Signal Ground	I	LWN

cardiagn.com

KR81 Auxiliary Battery Relay 1 X2



3385519

Connector Part Information

Harness Type: Positive Battery 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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

KR81 Auxiliary Battery Relay 1 X2

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

cardiagn.com

KR81 Auxiliary Battery Relay 1 X3 (9L7)

—

Connector Part Information

Harness Type: Accessory
OEM Connector: 12103504
Service Connector: Service by Cable Assembly — See Part Catalog
Description: —

Terminal Part Information

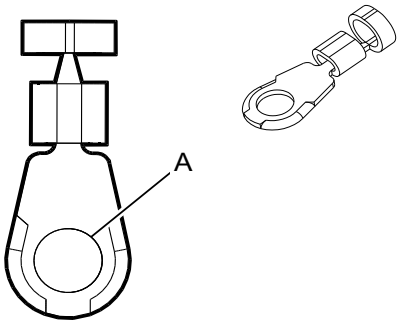
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

KR81 Auxiliary Battery Relay 1 X3 (9L7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	RD	1	Unfused Battery Positive Voltage	I	—
	5	RD/BK	102	Battery Positive Voltage	II	—

cardiagn.com

KR81 Auxiliary Battery Relay 1 X3 (TP2)



3385519

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12146365
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

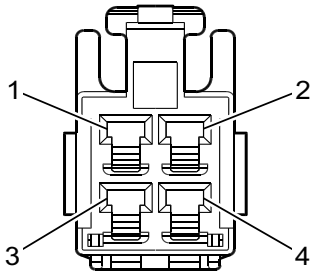
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

KR81 Auxiliary Battery Relay 1 X3 (TP2)

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

cardiagn.com

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

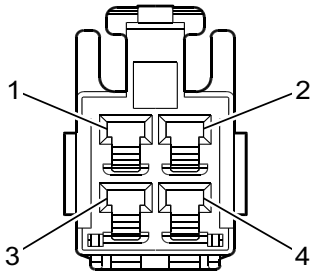
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M2A Access Panel Unlatch Actuator - Left Front Side Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	TN	294	Door Lock Actuator Unlock Control	I	—
4	20	BK	750	Ground	I	—

cardiagn.com

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

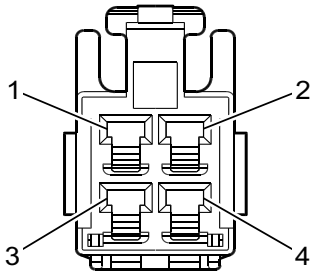
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M2B Access Panel Unlatch Actuator - Left Front Side Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	TN	294	Door Lock Actuator Unlock Control	I	—
4	20	BK	750	Ground	I	—

cardiagn.com

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

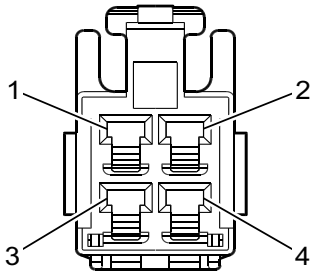
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M2C Access Panel Unlatch Actuator - Left Rear Side Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	PK	1092	Left Rear Door Lock Actuator Unlock Control	I	—
4	20	BK	750	Ground	I	—

cardiagn.com

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

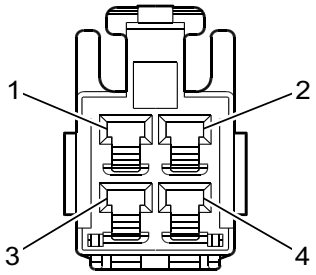
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M2D Access Panel Unlatch Actuator - Left Rear Side Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	PK	1092	Left Rear Door Lock Actuator Unlock Control	I	—
4	20	BK	750	Ground	I	—

cardiagn.com

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

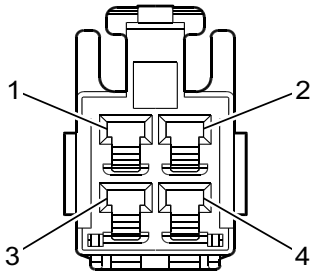
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M2E Access Panel Unlatch Actuator - Right Side Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	TN/BK	1095	Right Rear Door Lock Actuator Unlock Control	I	—
4	20	BK	750	Ground	I	—

cardiagn.com

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

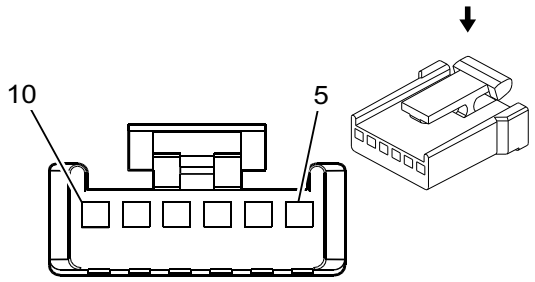
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M2F Access Panel Unlatch Actuator - Right Side Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	TN/BK	1095	Right Rear Door Lock Actuator Unlock Control	I	—
4	20	BK	750	Ground	I	—

cardiagn.com

M6 Air Temperature Door Actuator



281207

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12040953
Service Connector: 12102632
Description: 6-Way F 100 Micro-Pack Series (BK)

Terminal Part Information

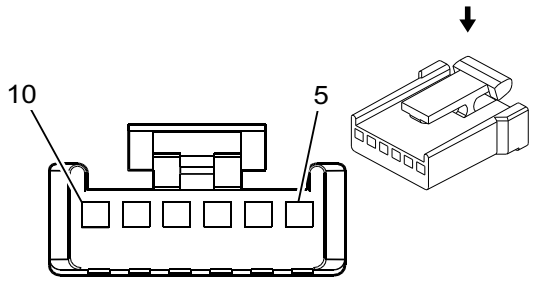
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-6 (BN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	—

cardiagn.com

M6B Air Temperature Door Actuator - Auxiliary



281207

Connector Part Information

Harness Type: Auxiliary HVAC
OEM Connector: 12040953
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 100 Micro-Pack Series (BK)

Terminal Part Information

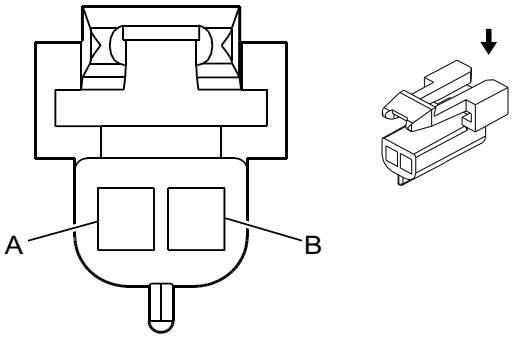
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-6 (BN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	I	—
8	0.35	OG	2775	Rear Air Temperature Motor Control	I	—
9	—	—	—	Not Occupied	—	—
10	0.35	BN	341	Run Ignition 3 Voltage	I	—

cardiagn.com

M7 Transmission Shift Lock Control Solenoid Actuator (MYD)



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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M7 Transmission Shift Lock Control Solenoid Actuator (MYD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	TN/WH	816	Brake Transmission Shift Interlock Solenoid Control	I	—
B	—	BK	350	Ground	I	—

cardiagn.com

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

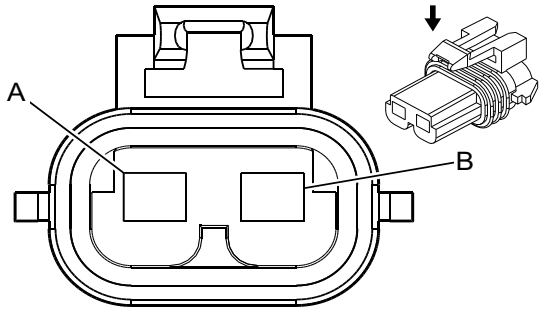
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M8 Blower Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	BK	1250	Ground	I	—
B	—	RD	65	Blower Motor Control	I	—

cardiagn.com

M8B Blower Motor - Auxiliary



684799

Connector Part Information

Harness Type: Auxiliary HVAC
OEM Connector: 12077900
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

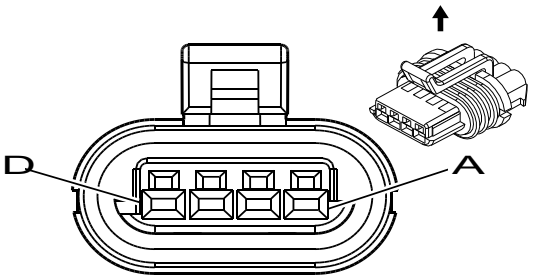
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M8B Blower Motor - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	BK	850	Ground	I	—
B	5	YE	1172	Auxiliary Blower Motor Control	I	—

cardiagn.com

M13 Door Latch Assembly - Rear Cargo X1



655858

Connector Part Information

Harness Type: Rear Cargo Door
OEM Connector: 15336846
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 150 GT Series, Sealed (BU)

Terminal Part Information

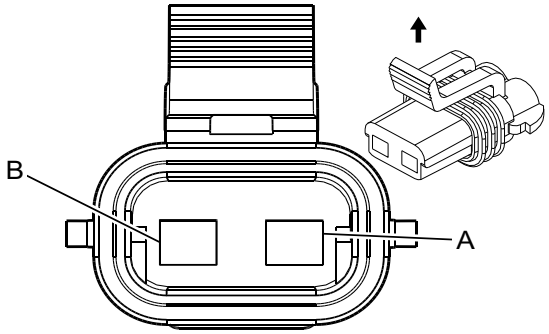
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M13 Door Latch Assembly - Rear Cargo X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK/WH	1051	Signal Ground	I	—
B	—	—	—	Not Occupied	—	—
C	0.35	PK/BK	1303	Lift Gate Ajar Switch Signal 1	I	—
D	0.35	L-GN	5926	Rear Access Open Switch Signal	I	—

cardiagn.com

M13 Door Latch Assembly - Rear Cargo X2



68721

Connector Part Information

Harness Type: Rear Cargo Door
OEM Connector: 15300027
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

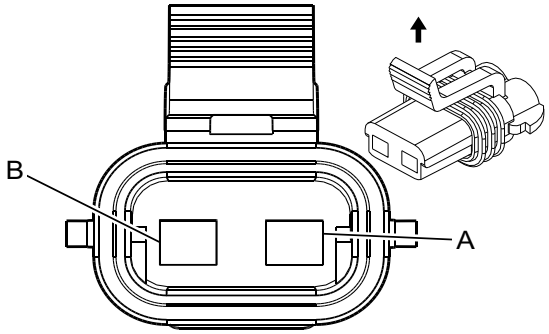
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M13 Door Latch Assembly - Rear Cargo X2

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

cardiagn.com

M14RR Door Lock Actuator - Right Rear (E24)



68721

Connector Part Information

Harness Type: Sliding Door
OEM Connector: 15300027
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

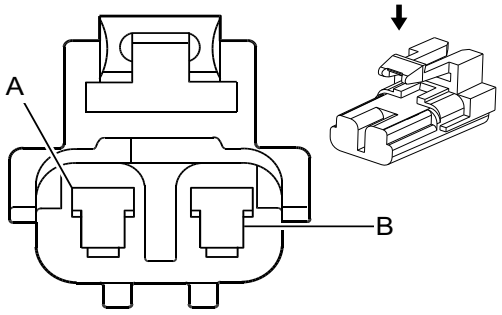
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M14RR Door Lock Actuator - Right Rear (E24)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	294	Door Lock Actuator Unlock Control	I	—
B	0.8	GY	295	Door Lock Actuator Lock Control	I	—

cardiagn.com

M14RR Door Lock Actuator - Right Rear (YA2)



62488

Connector Part Information

Harness Type: Sliding Door
OEM Connector: 12084957
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

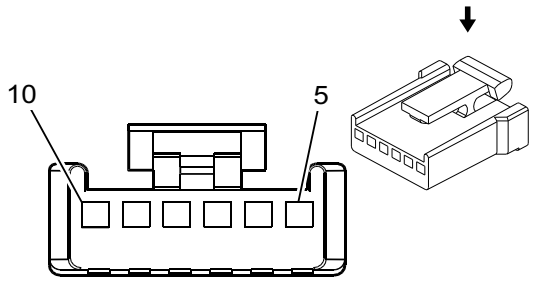
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M14RR Door Lock Actuator - Right Rear (YA2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	GY	295	Door Lock Actuator Lock Control	I	—
B	0.8	TN	294	Door Lock Actuator Unlock Control	I	—

cardiagn.com

M37B Mode Door Actuator - Auxiliary



281207

Connector Part Information

Harness Type: Auxiliary HVAC
OEM Connector: 12040953
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 100 Micro-Pack Series (BK)

Terminal Part Information

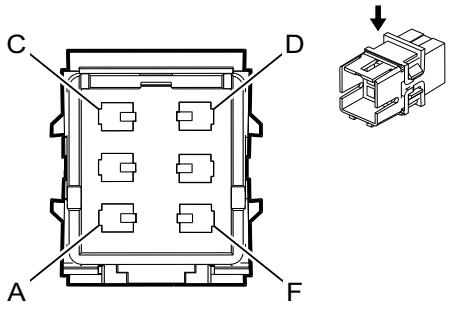
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-6 (BN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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 Motor Signal	I	—
9	—	—	—	Not Occupied	—	—
10	0.35	BN	341	Run Ignition 3 Voltage	I	—

cardiagn.com

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 (BK)

Terminal Part Information

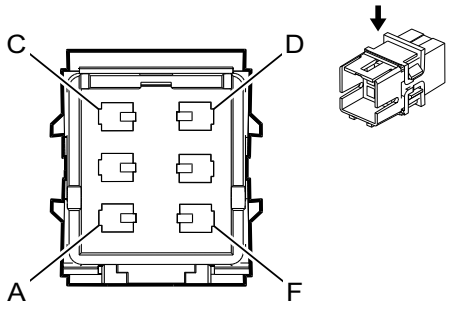
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M49D Seat Motor Assembly - Driver (AG1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	YE	282	Driver Power Seat Rear Vertical Motor Up Control	I	—
B	—	L-BU	283	Driver Power Seat Rear Vertical Motor Down Control	I	—
C	—	TN	285	Driver Power Seat Horizontal Motor Forward Control	I	—
D	—	L-GN	284	Driver Power Seat Horizontal Motor Rearward Control	I	—
E	—	D-GN	286	Driver Power Seat Front Vertical Motor Up Control	I	—
F	—	D-BU	287	Driver Power Seat Front Vertical Motor Down Control	I	—

cardiagn.com

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 (BK)

Terminal Part Information

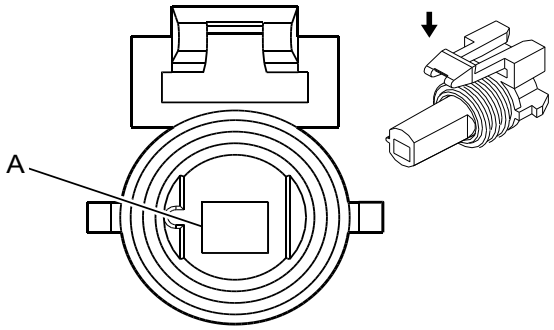
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

M49P Seat Motor Assembly - Passenger (AG2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	YE	288	Passenger Power Seat Rear Vertical Motor Up Control	I	—
B	—	L-BU	289	Passenger Power Seat Rear Vertical Motor Down Control	I	—
C	—	TN	296	Passenger Power Seat Horizontal Motor Forward Control	I	—
D	—	L-GN	290	Passenger Power Seat Horizontal Motor Rearward Control	I	—
E	—	D-GN	297	Passenger Power Seat Front Vertical Motor Up Control	I	—
F	—	D-BU	298	Passenger Power Seat Front Vertical Motor Down Control	I	—

cardiagn.com

M64 Starter Motor X2 (L96/LC8)



696940

Connector Part Information

Harness Type: Engine
OEM Connector: 15481001
Service Connector: 13584479
Description: 1-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

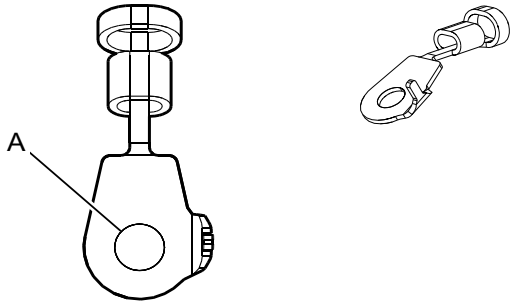
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M64 Starter Motor X2 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	PU/	6	Starter Solenoid Crank Ignition Voltage	I	—

cardiagn.com

M64 Starter Motor X1 (L96/LC8+TP2)



4833247

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 13978405
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

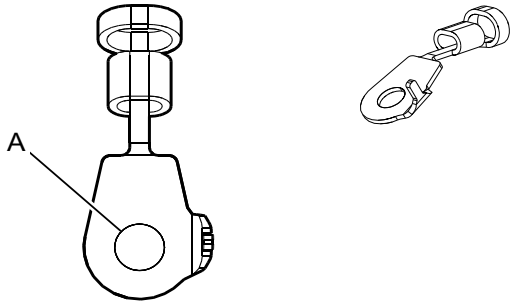
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

M64 Starter Motor X1 (L96/LC8+TP2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	13	RD	1	Unfused Battery Positive Voltage	I	L96
	19	RD	1	Unfused Battery Positive Voltage	I	LV1
	32	RD	1	Unfused Battery Positive Voltage	I	LWN

cardiagn.com

M64 Starter Motor X1 (L96/LC8-TP2)



4833247

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 12176602
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

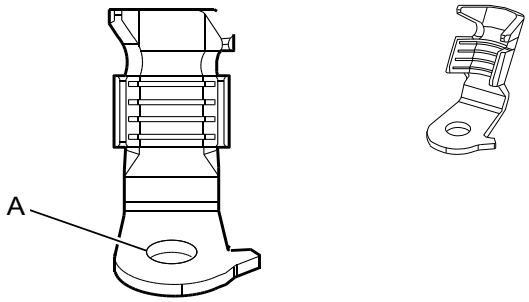
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

M64 Starter Motor X1 (L96/LC8-TP2)

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

cardiagn.com

M64 Starter Motor X1 (LV1)



4937583

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 35116268
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

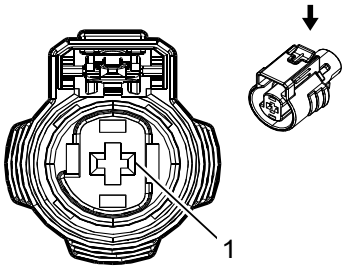
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

M64 Starter Motor X1 (LV1)

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

cardiagn.com

M64 Starter Motor X2 (LV1)



2717134

Connector Part Information

Harness Type: Engine
OEM Connector: 15526411
Service Connector: 19300471
Description: 1-Way F 2.8 MCP Series, Sealed (BK)

Terminal Part Information

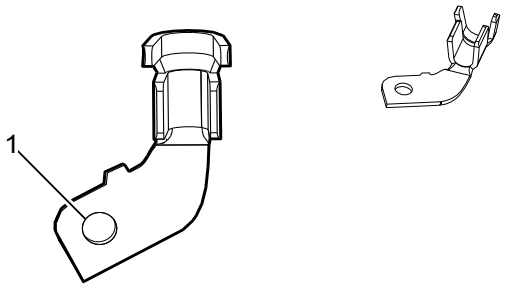
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M64 Starter Motor X2 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	4	YE	6	Starter Solenoid Crank Ignition Voltage	I	—

cardiagn.com

M64 Starter Motor X1 (LWN)



4892115

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 33253169
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

Terminal Part Information

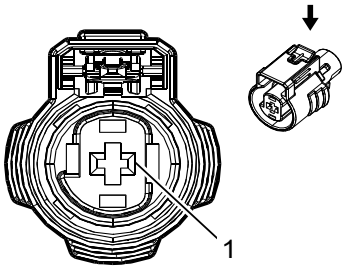
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

M64 Starter Motor X1 (LWN)

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

cardiagn.com

M64 Starter Motor X2 (LWN)



2717134

Connector Part Information

Harness Type: Engine
OEM Connector: 15526411
Service Connector: 19300471
Description: 1-Way F 2.8 MCP Series, Sealed (BK)

Terminal Part Information

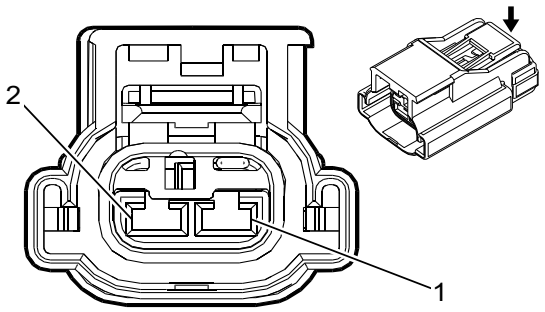
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M64 Starter Motor X2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	5	VT	6	Starter Solenoid Crank Ignition Voltage	I	—

cardiagn.com

M74D Window Motor - Driver



3372003

Connector Part Information

Harness Type: Driver Door
OEM Connector: 13896059
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 2.8 APEX Series, Sealed (BK)

Terminal Part Information

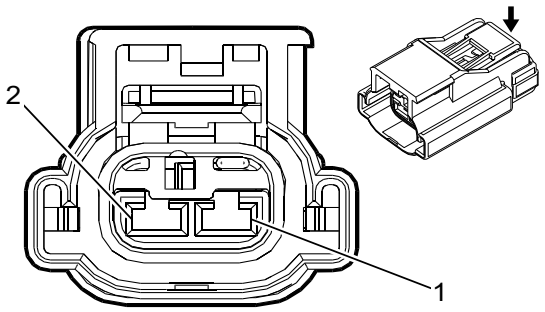
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M74D Window Motor - Driver

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

cardiagn.com

M74P Window Motor - Passenger



3372003

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 13896059
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 2.8 APEX Series, Sealed (BK)

Terminal Part Information

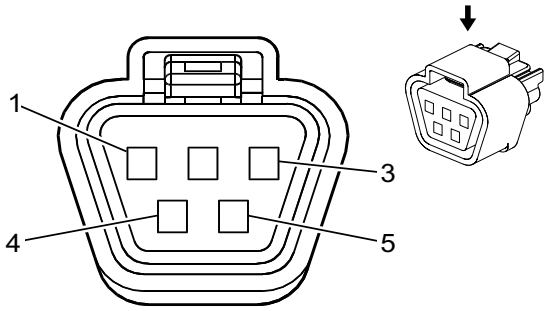
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M74P Window Motor - Passenger

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

cardiagn.com

M75 Windshield Wiper Motor



1715213

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15316488
Service Connector: 13587179
Description: 5-Way F 090 Series, Sealed (BK)

Terminal Part Information

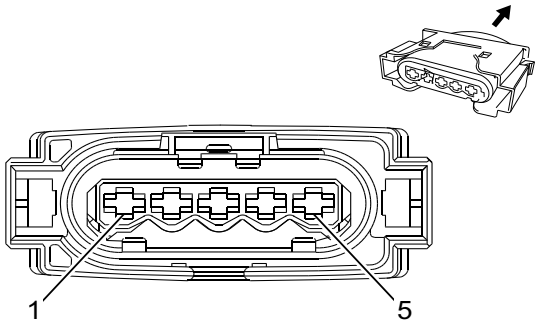
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-18 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not 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	I	—
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	II	—

cardiagn.com

M103 Turbocharger Vane Position Actuator



3794114

Connector Part Information

Harness Type: Engine
OEM Connector: 10890285
Service Connector: 19368141
Description: 5-Way F 2.8 SLK Series (BK)

Terminal Part Information

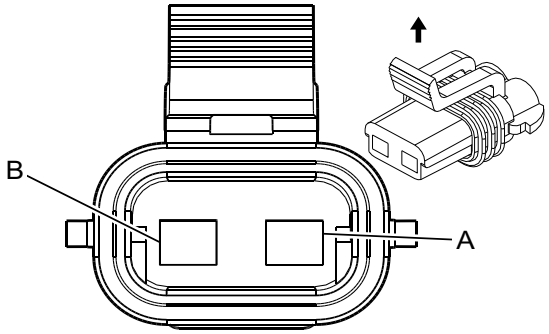
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M103 Turbocharger Vane Position Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/D-BU	5930	Variable Nozzle Turbo Solenoid High Signal	I	—
2	0.5	WH/BK	5931	Variable Nozzle Turbo Solenoid Low Signal	I	—
3	0.5	BK/BN	5929	Variable Nozzle Turbo Position Sensor Low Reference	I	—
4	0.5	VT/YE	5947	Variable Nozzle Turbo Position Sensor Signal	I	—
5	0.5	GY/RD	5928	Variable Nozzle Turbo Position Sensor 5V Reference	I	—

cardiagn.com

P3 Backup Alarm



68721

Connector Part Information

Harness Type: Chassis
OEM Connector: 15300027
Service Connector: 12101855
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

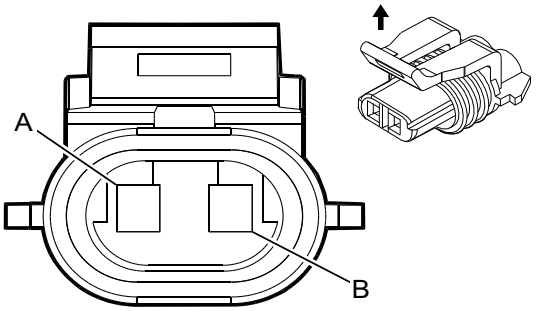
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P3 Backup Alarm

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	L-GN	1624	Trailer Backup Lamp Control	I	—
B	1	BK	150	Ground	I	—

cardiagn.com

P13 Horn Assembly



537107

Connector Part Information

Harness Type: Engine
OEM Connector: 12052644
Service Connector: 19368034
Description: 2-Way F 150 Metri-Pack Series, Sealed (GY)

Terminal Part Information

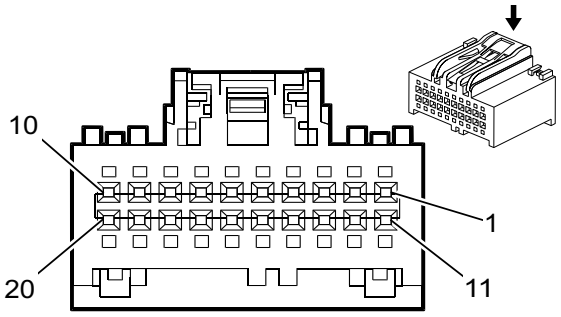
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P13 Horn Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1250	Ground	I	—
B	0.8	D-GN	29	Horn Control	I	—

cardiagn.com

P16 Instrument Cluster



1715223

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 33125545
Service Connector: 13593931
Description: 20-Way F 64 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	13575867	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

P16 Instrument Cluster

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-GN	5060	Low Speed GMLAN Serial Data	II	—
2	—	—	—	Not Occupied	—	—
3	0.5	L-GN/	1478	Coolant Level Switch Signal	I	—
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	II	—
7	0.35	BK/WH	351	Signal Ground	II	—
8	0.35	WH/GN	3535	Reflected LED Display Dimming Control	II	—
9	0.5	L-GN/BN	507	Wait To Start Indicator Control	I	—
10	0.5	BU/GY	636	Outside Ambient Air Temperature Sensor Signal	I	—
11	0.5	BK/D-BU	61	Outside Ambient Temperature Sensor Low Reference	I	—
12	0.35	D-BU	2307	Passenger Air Bag On Indicator Control	II	—
13	0.35	D-GN	2308	Passenger Air Bag Off Indicator Control	II	—
14	0.5	TN/WH	33	Brake Warning Indicator Control	I	—
15	0.75	L-GN/GY	333	Brake Fluid Level Sensor Signal	I	—
16	0.35	PK	893	Driver Information Center Select Menu Switch Signal	II	—
17	0.35	D-GN/WH	1358	Driver Information Center Switch Signal	II	—
18	0.35	BN	897	Driver Information Center Switch Low Reference	II	—

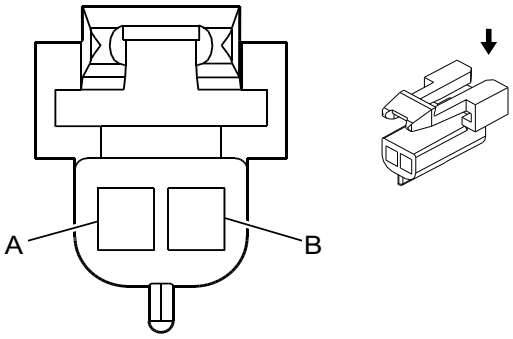
cardiagn.com

P16 Instrument Cluster (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
19	0.35	PK	1639	Run/Crank Ignition 1 Voltage	II	—
20	0.35	RD/WH	2840	Battery Positive Voltage	II	—

cardiagn.com

P19AG Speaker - Left Front Door



280768

Connector Part Information

Harness Type: Driver Door
OEM Connector: 12052832
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

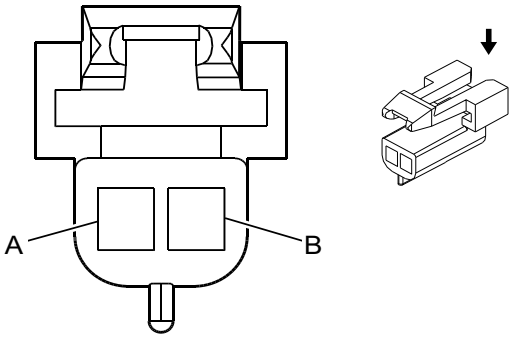
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19AG Speaker - Left Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	L-BU	1957	Left Front Midrange Speaker (-) Low Reference	I	—
B	0.8	D-BU/	1857	Left Front Midrange Speaker Control (+)	I	—

cardiagn.com

P19AH Speaker - Right Front Door



280768

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 12052832
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

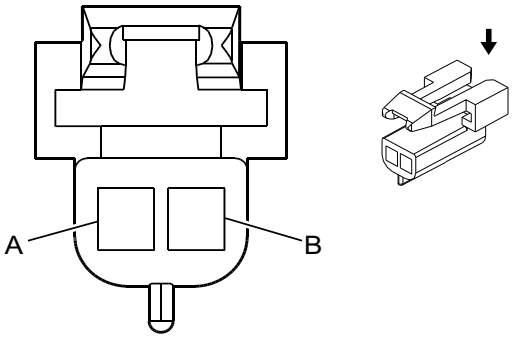
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19AH Speaker - Right Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-GN	1953	Right Front Midrange Speaker (-) Low Reference	I	—
B	0.8	OG	1853	Right Front Midrange Speaker Control (+)	I	—

cardiagn.com

P19F Speaker - Left Rear Cargo Door



280768

Connector Part Information

Harness Type: Left Rear Cargo Door
OEM Connector: 12052832
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

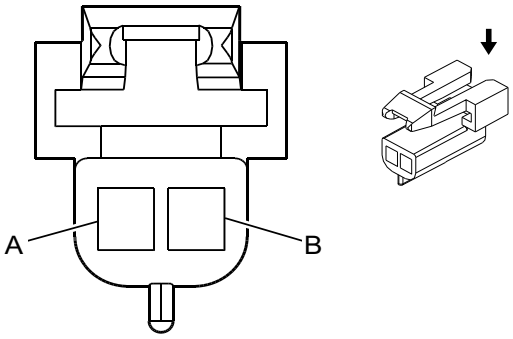
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19F Speaker - Left Rear Cargo Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	WH	1959	Left Rear Midrange Speaker (-) Low Reference	I	—
B	1	TN	1859	Left Rear Midrange Speaker Control (+)	I	—

cardiagn.com

P19LR Speaker - Left Rear Roof



280768

Connector Part Information

Harness Type: Rear Speaker
OEM Connector: 12052832
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

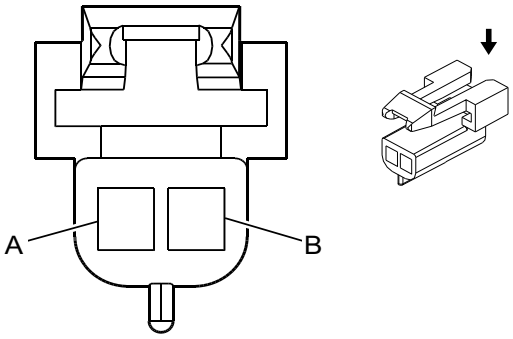
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19LR Speaker - Left Rear Roof

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	WH	1959	Left Rear Midrange Speaker (-) Low Reference	I	—
B	1	TN	1859	Left Rear Midrange Speaker Control (+)	I	—

cardiagn.com

P19RR Speaker - Right Rear Roof



280768

Connector Part Information

Harness Type: Rear Speaker
OEM Connector: 12052832
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

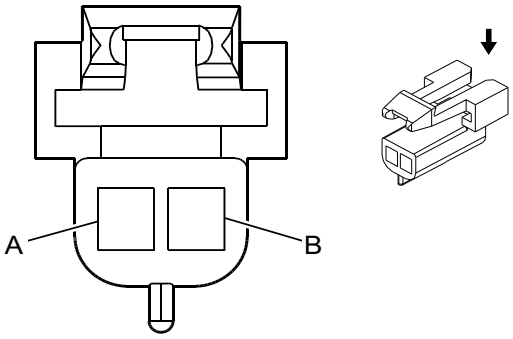
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19RR Speaker - Right Rear Roof

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	OG	1955	Right Rear Midrange Speaker (-) Low Reference	I	—
B	1	TN	1855	Right Rear Midrange Speaker Control (+)	I	—

cardiagn.com

P19T Speaker - Right Rear Cargo Door



280768

Connector Part Information

Harness Type: Rear Cargo Door
OEM Connector: 12052832
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

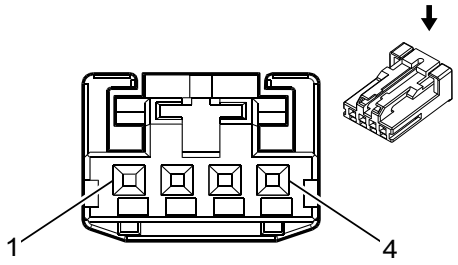
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19T Speaker - Right Rear Cargo Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	OG	1955	Right Rear Midrange Speaker (-) Low Reference	I	—
B	1	TN	1855	Right Rear Midrange Speaker Control (+)	I	—

cardiagn.com

P43 Collision Alert Indicators



2717162

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13969166
Service Connector: 13587297
Description: 4-Way F 0.64 Micro-Quadlock Series (BK)

Terminal Part Information

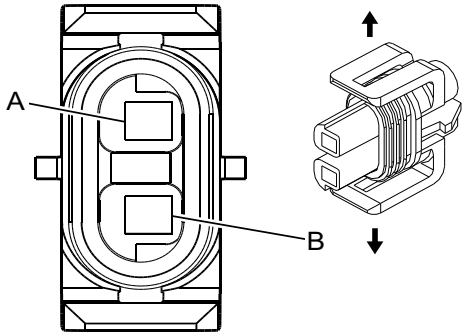
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	—

cardiagn.com

Q2 A/C Compressor Clutch (L96/LC8)



684852

Connector Part Information

Harness Type: Engine
OEM Connector: 12162017
Service Connector: 12101937
Description: 2-Way F 150 Metri-Pack Series, Sealed (GY)

Terminal Part Information

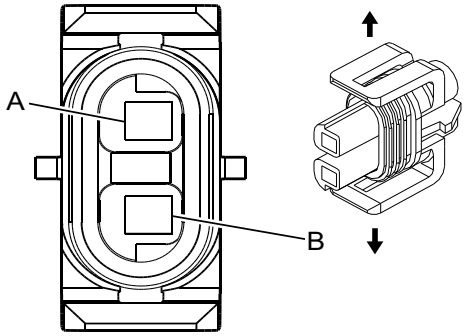
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q2 A/C Compressor Clutch (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1250	Ground	I	—
B	0.5	D-GN	59	A/C Compressor Clutch Control	I	—

cardiagn.com

Q2 A/C Compressor Clutch (LV1)



684852

Connector Part Information

Harness Type: Engine
OEM Connector: 12162017
Service Connector: 12101937
Description: 2-Way F 150 Metri-Pack Series, Sealed (GY)

Terminal Part Information

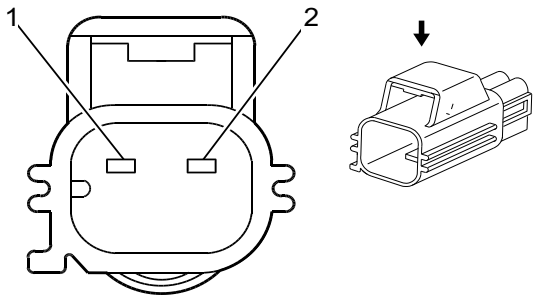
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q2 A/C Compressor Clutch (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1250	Ground	I	—
B	0.5	D-GN	59	A/C Compressor Clutch Control	I	—

cardiagn.com

Q2 A/C Compressor Clutch (LWN)



897985

Connector Part Information

Harness Type: Engine
OEM Connector: 15342400
Service Connector: 88953303
Description: 2-Way M YESC Weather Pack Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q2 A/C Compressor Clutch (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/L-GN	59	A/C Compressor Clutch Control	I	—
2	0.8	BK	1250	Ground	I	—

cardiagn.com

Q6 Camshaft Position Actuator Solenoid Valve (L96/LC8)

—

Connector Part Information

Harness Type: Camshaft Position Sensor Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: F

Terminal Part Information

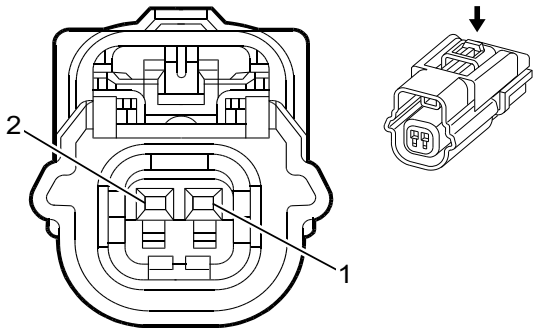
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q6 Camshaft Position Actuator Solenoid Valve (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	TN	2199	Camshaft Phaser Solenoid Low Reference	I	—
2	—	PU/	5284	Camshaft Phaser Intake Solenoid 1	I	—

cardiagn.com

Q6 Camshaft Position Actuator Solenoid Valve



1664592

Connector Part Information

Harness Type: Camshaft Position Sensor Jumper
OEM Connector: 13528494
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 Kaizen Series, Sealed (BK)

Terminal Part Information

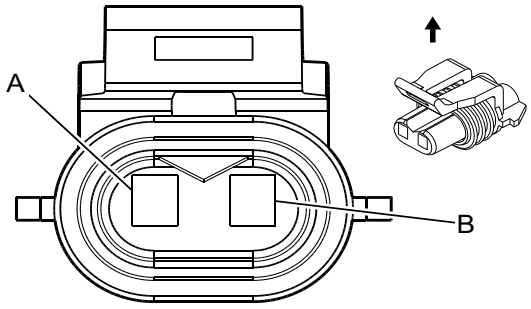
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q6 Camshaft Position Actuator Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/BN	6753	Cam Phaser W Low Reference	I	—
2	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	I	—

cardiagn.com

Q12 Evaporative Emission Purge Solenoid Valve (L96/LC8)



684829

Connector Part Information

Harness Type: Engine
OEM Connector: 12124037
Service Connector: 13585860
Description: 2-Way F 150 Metri-Pack Series, Sealed (BK)

Terminal Part Information

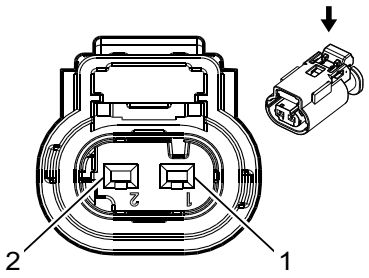
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q12 Evaporative Emission Purge Solenoid Valve (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	PK	1939	Run/Crank Ignition 1 Voltage	I	—
B	0.5	D-GN/WH	428	EVAP Canister Purge Solenoid Control	I	—

cardiagn.com

Q12 Evaporative Emission Purge Solenoid Valve (LV1)



2717066

Connector Part Information

Harness Type: Engine
OEM Connector: 13735326
Service Connector: 13587326
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

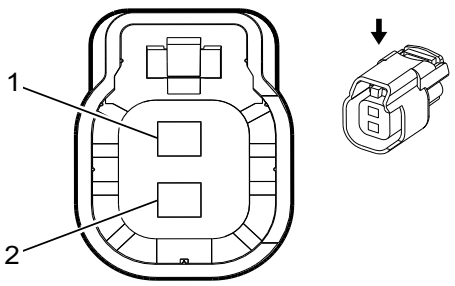
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q12 Evaporative Emission Purge Solenoid Valve (LV1)

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	—

cardiagn.com

Q13 Evaporative Emission Vent Solenoid Valve



2422378

Connector Part Information

Harness Type: Chassis
OEM Connector: 13771883
Service Connector: 13579002
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

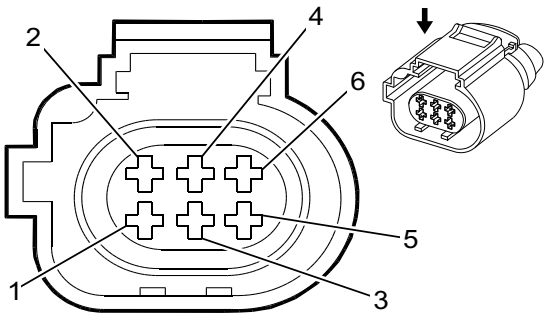
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q13 Evaporative Emission Vent Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	1310	EVAP Canister Vent Solenoid Control	I	—
2	0.5	RD/L-GN	40	Battery Positive Voltage	I	—

cardiagn.com

Q14 Exhaust Gas Recirculation Valve



2216905

Connector Part Information

Harness Type: Engine
OEM Connector: 10888948
Service Connector: 19368732
Description: 6-Way F 1.6 Micro-Timer Series, Sealed (BN)

Terminal Part Information

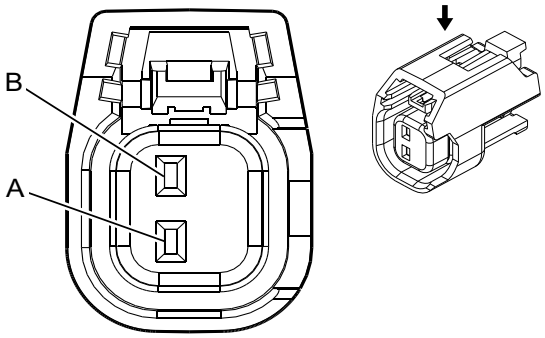
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q14 Exhaust Gas Recirculation Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/VT	5764	Exhaust Gas Recirculation Valve Motor High Signal	I	—
2	0.5	BN/WH	5763	Exhaust Gas Recirculation Valve Sensor Signal	I	—
3	—	—	—	Not Occupied	—	—
4	0.5	BK/BN	2753	Exhaust Gas Recirculation Sensor Low Reference	I	—
5	0.5	VT/BK	5746	Exhaust Gas Recirculation Valve Motor Low Signal	I	—
6	0.5	D-BU/RD	5047	Exhaust Gas Recirculation 5V Reference 1	I	—

cardiagn.com

Q17A Fuel Injector 1 (L96/LC8)



1527729

Connector Part Information

Harness Type: Engine
OEM Connector: 15419715
Service Connector: 19367557
Description: 2-Way F 150 GT Series, Sealed (GY)

Terminal Part Information

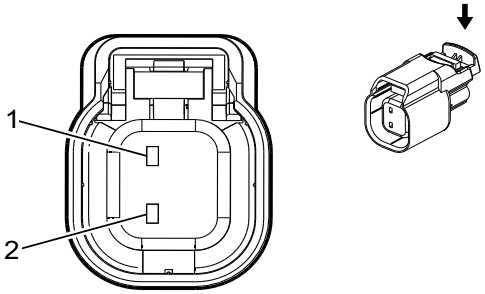
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17A Fuel Injector 1 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1039	Run/Crank Ignition 1 Voltage	I	—
B	0.5	TN	1744	Fuel Injector Control 1	I	—

cardiagn.com

Q17A Fuel Injector 1 (LV1)



2792100

Connector Part Information

Harness Type: Fuel Injector Jumper
OEM Connector: 13581410
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

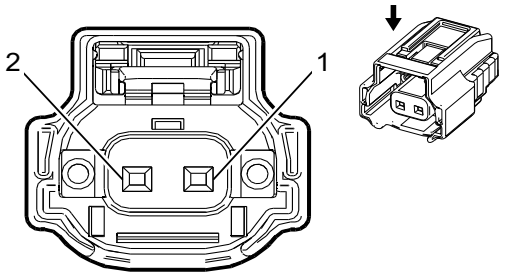
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17A Fuel Injector 1 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	—	I	—
2	—	—	—	—	I	—

cardiagn.com

Q17A Fuel Injector 1 (LWN)



2498869

Connector Part Information

Harness Type: Engine
OEM Connector: 13988576
Service Connector: 13407097
Description: 2-Way F 090 DL Series, Sealed (BK)

Terminal Part Information

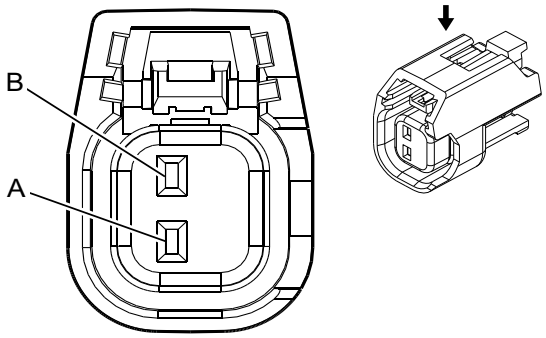
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17A Fuel Injector 1 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	—
2	1.5	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	—

cardiagn.com

Q17B Fuel Injector 2 (L96/LC8)



1527729

Connector Part Information

Harness Type: Engine
OEM Connector: 15419715
Service Connector: 19367557
Description: 2-Way F 150 GT Series, Sealed (GY)

Terminal Part Information

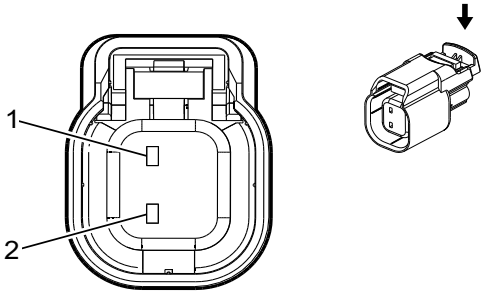
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17B Fuel Injector 2 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1239	Run/Crank Ignition 1 Voltage	I	—
B	0.5	L-GN/BK	1745	Fuel Injector Control 2	I	—

cardiagn.com

Q17B Fuel Injector 2 (LV1)



2792100

Connector Part Information

Harness Type: Fuel Injector Jumper
OEM Connector: 13581410
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

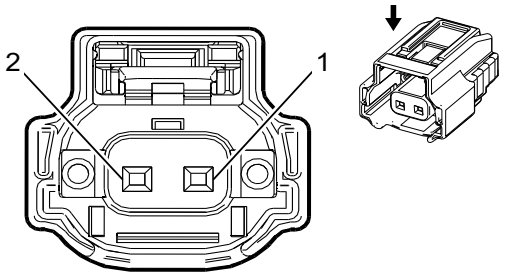
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17B Fuel Injector 2 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	—	I	—
2	—	—	—	—	I	—

cardiagn.com

Q17B Fuel Injector 2 (LWN)



2498869

Connector Part Information

Harness Type: Engine
OEM Connector: 13988576
Service Connector: 13407097
Description: 2-Way F 090 DL Series, Sealed (BK)

Terminal Part Information

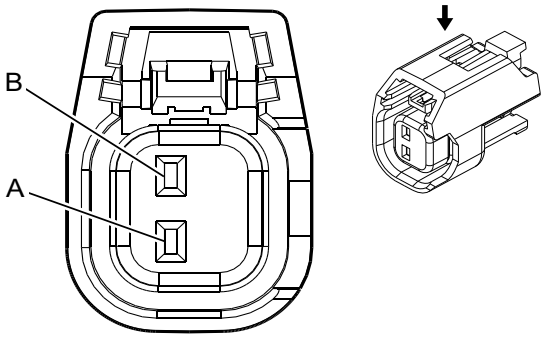
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17B Fuel Injector 2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	D-BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	—
2	1.5	D-BU/	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	—

cardiagn.com

Q17C Fuel Injector 3 (L96/LC8)



1527729

Connector Part Information

Harness Type: Engine
OEM Connector: 15419715
Service Connector: 19367557
Description: 2-Way F 150 GT Series, Sealed (GY)

Terminal Part Information

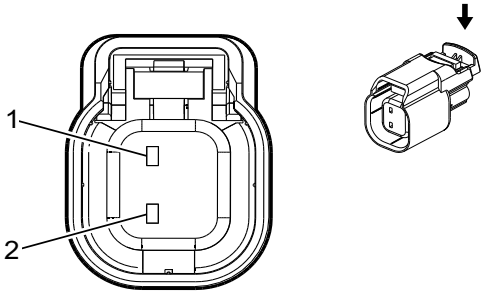
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17C Fuel Injector 3 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1039	Run/Crank Ignition 1 Voltage	I	—
B	0.5	PK/BK	1746	Fuel Injector Control 3	I	—

cardiagn.com

Q17C Fuel Injector 3 (LV1)



2792100

Connector Part Information

Harness Type: Fuel Injector Jumper
OEM Connector: 13581410
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

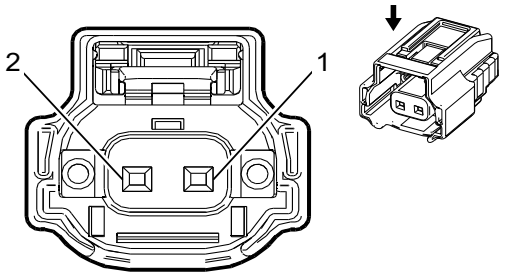
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17C Fuel Injector 3 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	—	I	—
2	—	—	—	—	I	—

cardiagn.com

Q17C Fuel Injector 3 (LWN)



2498869

Connector Part Information

Harness Type: Engine
OEM Connector: 13988576
Service Connector: 13407097
Description: 2-Way F 090 DL Series, Sealed (BK)

Terminal Part Information

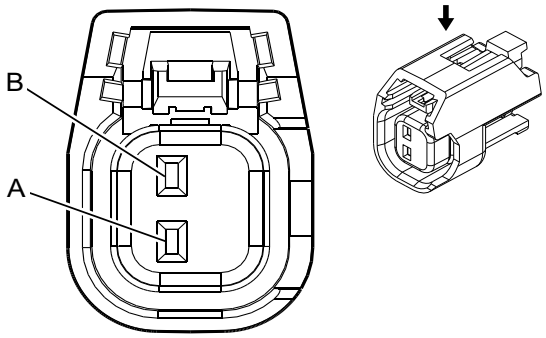
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17C Fuel Injector 3 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	L-GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	—
2	1.5	L-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	—

cardiagn.com

Q17D Fuel Injector 4 (L96/LC8)



1527729

Connector Part Information

Harness Type: Engine
OEM Connector: 15419715
Service Connector: 19367557
Description: 2-Way F 150 GT Series, Sealed (GY)

Terminal Part Information

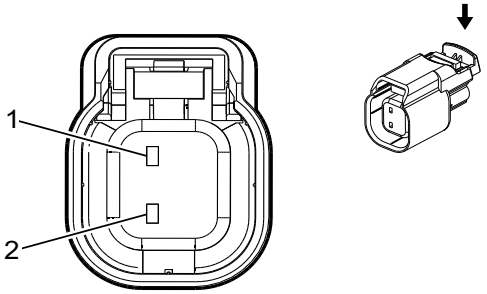
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17D Fuel Injector 4 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1239	Run/Crank Ignition 1 Voltage	I	—
B	0.5	L-BU/BK	844	Fuel Injector Control 4	I	—

cardiagn.com

Q17D Fuel Injector 4 (LV1)



2792100

Connector Part Information

Harness Type: Fuel Injector Jumper
OEM Connector: 13581410
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

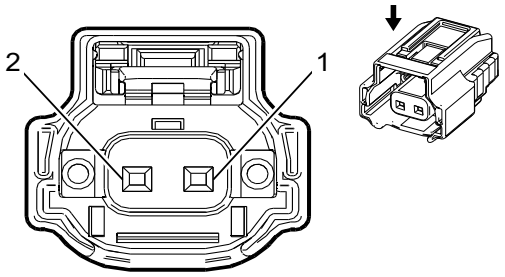
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17D Fuel Injector 4 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	D-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	—
2	—	D-BU/	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	—

cardiagn.com

Q17D Fuel Injector 4 (LWN)



2498869

Connector Part Information

Harness Type: Engine
OEM Connector: 13988576
Service Connector: 13407097
Description: 2-Way F 090 DL Series, Sealed (BK)

Terminal Part Information

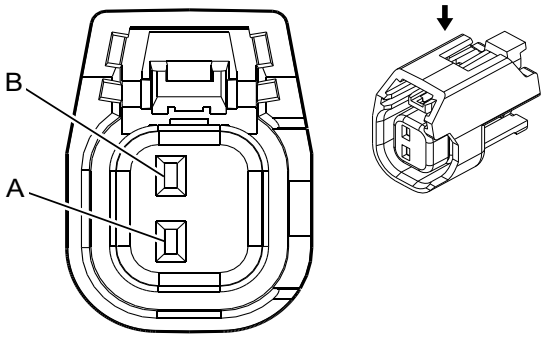
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17D Fuel Injector 4 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	D-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	—
2	1.5	GY/D-BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	—

cardiagn.com

Q17E Fuel Injector 5 (L96/LC8)



1527729

Connector Part Information

Harness Type: Engine
OEM Connector: 15419715
Service Connector: 19367557
Description: 2-Way F 150 GT Series, Sealed (GY)

Terminal Part Information

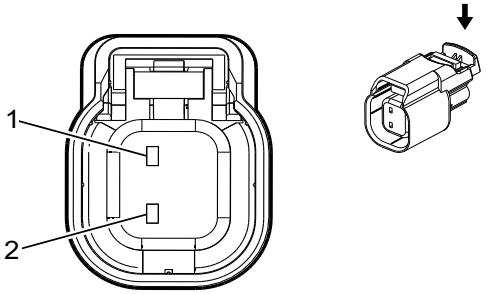
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17E Fuel Injector 5 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1039	Run/Crank Ignition 1 Voltage	I	—
B	0.5	TN/WH	845	Fuel Injector Control 5	I	—

cardiagn.com

Q17E Fuel Injector 5 (LV1)



2792100

Connector Part Information

Harness Type: Fuel Injector Jumper
OEM Connector: 13581410
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

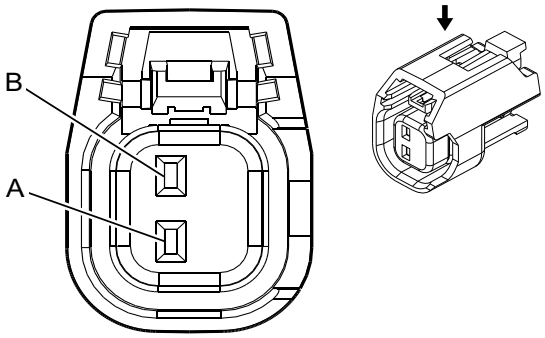
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17E Fuel Injector 5 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	L-GN/WH	4905	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	I	—
2	—	WH/L-GN	4805	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	I	—

cardiagn.com

Q17F Fuel Injector 6 (L96/LC8)



1527729

Connector Part Information

Harness Type: Engine
OEM Connector: 15419715
Service Connector: 19367557
Description: 2-Way F 150 GT Series, Sealed (GY)

Terminal Part Information

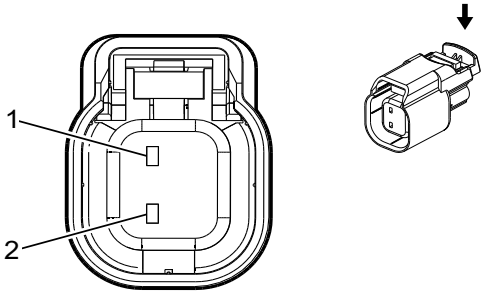
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17F Fuel Injector 6 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1239	Run/Crank Ignition 1 Voltage	I	—
B	0.5	YE/BK	846	Fuel Injector Control 6	I	—

cardiagn.com

Q17F Fuel Injector 6 (LV1)



2792100

Connector Part Information

Harness Type: Fuel Injector Jumper
OEM Connector: 13581410
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

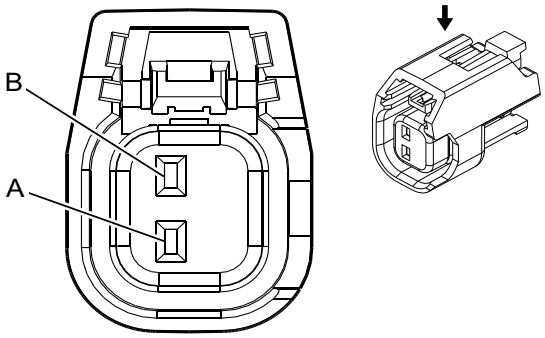
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17F Fuel Injector 6 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	VT/GY	4906	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	I	—
2	—	VT/L-GN	4806	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	I	—

cardiagn.com

Q17G Fuel Injector 7



1527729

Connector Part Information

Harness Type: Engine
OEM Connector: 15419715
Service Connector: 19367557
Description: 2-Way F 150 GT Series, Sealed (GY)

Terminal Part Information

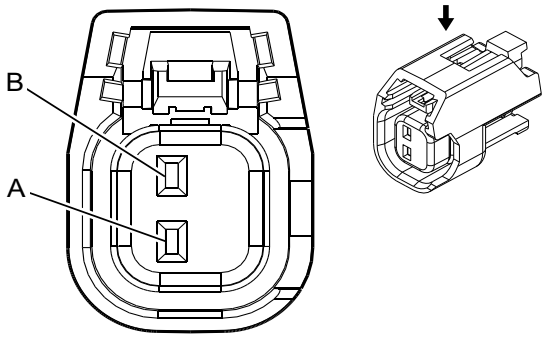
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17G Fuel Injector 7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1039	Run/Crank Ignition 1 Voltage	I	—
B	0.5	OG/BK	877	Fuel Injector Control 7	I	—

cardiagn.com

Q17H Fuel Injector 8



1527729

Connector Part Information

Harness Type: Engine
OEM Connector: 15419715
Service Connector: 19367557
Description: 2-Way F 150 GT Series, Sealed (GY)

Terminal Part Information

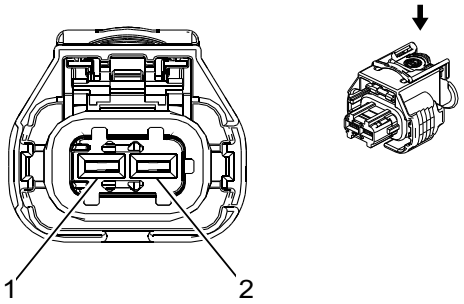
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q17H Fuel Injector 8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1239	Run/Crank Ignition 1 Voltage	I	—
B	0.5	D-BU/WH	878	Fuel Injector Control 8	I	—

cardiagn.com

Q18A Fuel Pressure Regulator 1



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 13930085
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

Terminal Part Information

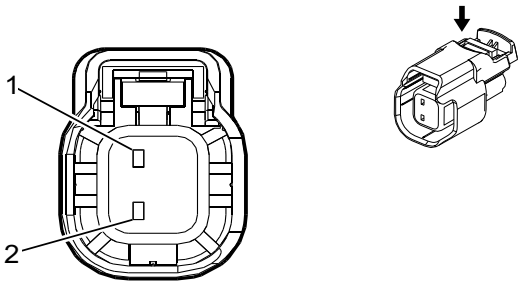
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q18A Fuel Pressure Regulator 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	2928	Fuel Metering Valve High Control	I	—
2	0.5	BN/BK	2929	Fuel Metering Valve Low Control	I	—

cardiagn.com

Q18B Fuel Pressure Regulator 2



3028817

Connector Part Information

Harness Type: Engine
OEM Connector: 13946568
Service Connector: 19352404
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

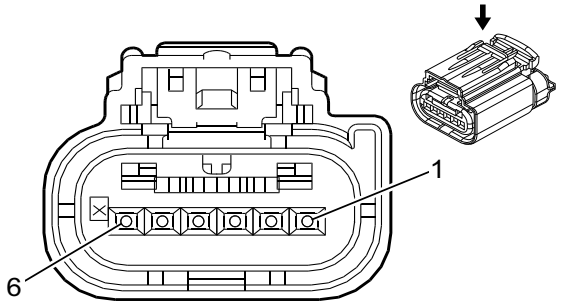
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q18B Fuel Pressure Regulator 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/WH	2530	Fuel Rail Pressure Solenoid Control	I	—
2	0.5	BK/YE	2834	Fuel Rail Pressure Solenoid Low Reference	I	—

cardiagn.com

Q20 Intake Air Flow Valve



2482433

Connector Part Information

Harness Type: Engine
OEM Connector: 13699991
Service Connector: 13586581
Description: 6-Way F 0.64 GET Series, Sealed (BK)

Terminal Part Information

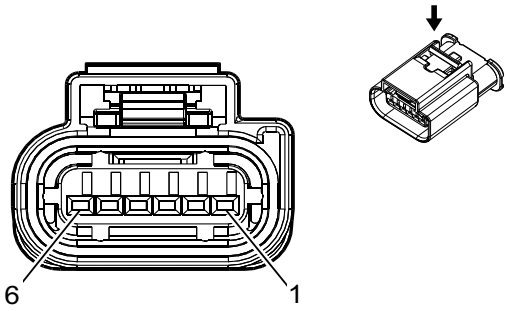
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q20 Intake Air Flow Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	581	Throttle Actuator Control Open	I	—
2	0.5	BN/WH	582	Throttle Actuator Control Close	I	—
3	0.5	D-BU/WH	3630	Throttle Position Sensor (SENT1) 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	—	—

cardiagn.com

Q38 Throttle Body



3747579

Connector Part Information

Harness Type: Engine
OEM Connector: 33220833
Service Connector: 19352911
Description: 6-Way F 1.2 MCON Series, Sealed (BK)

Terminal Part Information

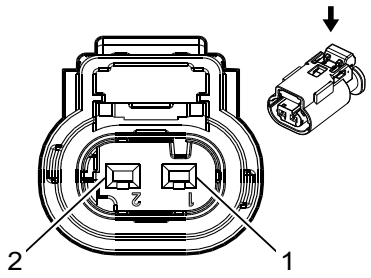
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q38 Throttle Body

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	581	Throttle Actuator Control Open	I	—
2	0.5	BN	582	Throttle Actuator Control Close	I	LV1
	0.5	BN/WH	582	Throttle Actuator Control Close	I	LWN
3	0.5	D-BU/WH	3630	Throttle Position Sensor (SENT1) Signal	I	LV1
	0.5	D-GN/	485	Throttle Position Sensor Signal 1	I	LWN
4	0.5	TN	2752	Throttle Position Sensor Low Reference	I	LV1
	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	I	LWN
5	0.5	GY	2701	Throttle Position Sensor 5V Reference	I	LV1
	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	I	LWN
6	—	—	—	Not Occupied	—	—

cardiagn.com

Q44 Engine Oil Pressure Control Solenoid Valve (LV1)



2717066

Connector Part Information

Harness Type: Oil Pressure Control Solenoid Valve Jumper
OEM Connector: 13503566
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

Terminal Part Information

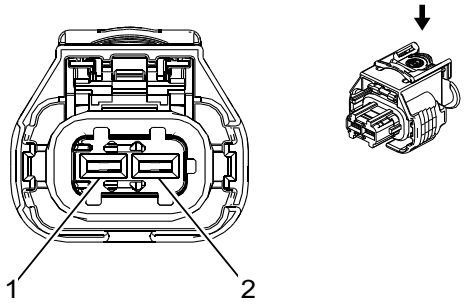
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q44 Engine Oil Pressure Control Solenoid Valve (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	5293	Powertrain Main Relay Fused Supply 4	I	—
2	—	BU	179	Oil Pump Command Signal	I	—

cardiagn.com

Q47 Exhaust Gas Recirculation Cooler Bypass Solenoid Valve



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 13930085
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

Terminal Part Information

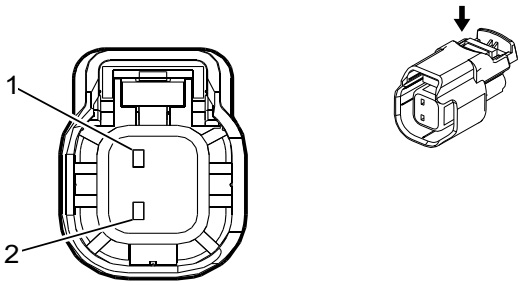
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q47 Exhaust Gas Recirculation Cooler Bypass Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/D-BU	3231	Exhaust Gas Recirculation Cooler Bypass Solenoid Control	I	—
2	0.5	GY/D-BU	3230	Exhaust Gas Recirculation Cooler Bypass Solenoid Control	I	—

cardiagn.com

Q61 Reductant Injector



3028817

Connector Part Information

Harness Type: Engine
OEM Connector: 13946568
Service Connector: 19352404
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

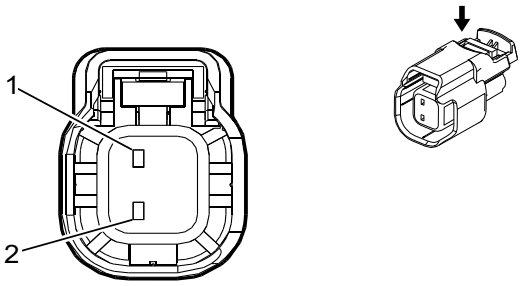
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q61 Reductant Injector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/WH	3100	DEF Dosing Valve Low Control	I	—
2	0.5	BN	3099	DEF Dosing Valve High Control	I	—

cardiagn.com

Q67 Exhaust Aftertreatment Fuel Injector



3028817

Connector Part Information

Harness Type: Chassis
OEM Connector: 13820418
Service Connector: 13580230
Description: 2-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

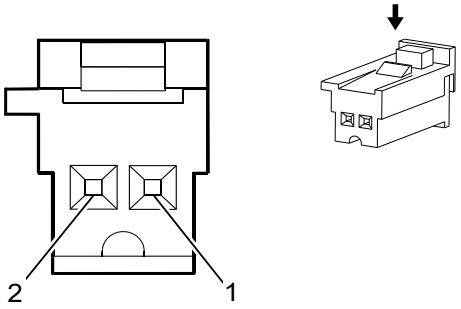
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q67 Exhaust Aftertreatment Fuel Injector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/BN	2927	Hydrocarbon Injector Low Control	I	—
2	0.75	BN/D-BU	2926	Hydrocarbon Injector High Control	I	—

cardiagn.com

Q77A Transmission Control Solenoid Valve 1 (M5U)



4051391

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13956948
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (VT)

Terminal Part Information

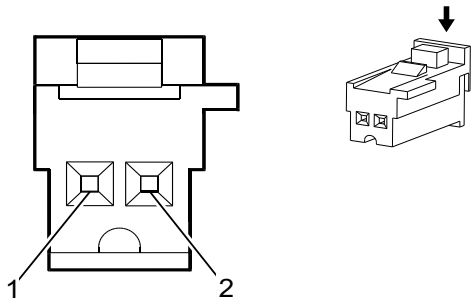
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77A Transmission Control Solenoid Valve 1 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	BN	6400	Clutch A Control	I	—
2	—	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

cardiagn.com

Q77B Transmission Control Solenoid Valve 2 (M5U)



4008644

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13941672
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (GY)

Terminal Part Information

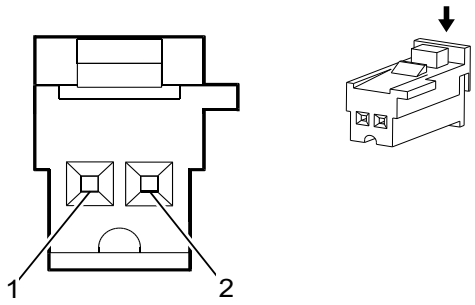
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77B Transmission Control Solenoid Valve 2 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	D-BU	6401	Clutch B Control	I	—
2	—	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

cardiagn.com

Q77C Transmission Control Solenoid Valve 3 (M5U)



4008644

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13941672
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (GY)

Terminal Part Information

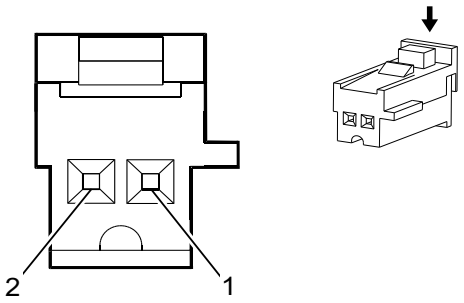
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77C Transmission Control Solenoid Valve 3 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	GY	6402	Clutch C Control	I	—
2	—	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

cardiagn.com

Q77D Transmission Control Solenoid Valve 4 (M5U)



4008636

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13947283
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (NA)

Terminal Part Information

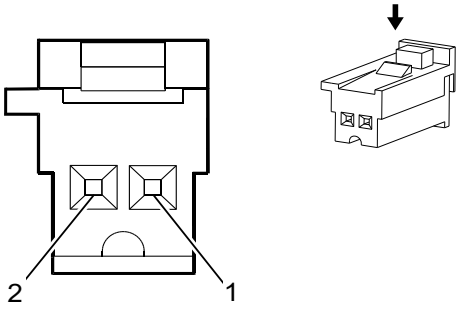
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77D Transmission Control Solenoid Valve 4 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	WH	4508	Transmission Clutch G Control	I	—
2	—	—	6387	Transmission High Side Driver 1 Signal Driver	I	—

cardiagn.com

Q77E Transmission Control Solenoid Valve 5 (M5U)



4051391

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13956948
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (VT)

Terminal Part Information

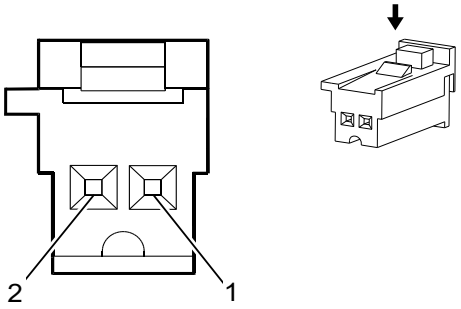
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77E Transmission Control Solenoid Valve 5 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	4507	Transmission Clutch H Control	I	—
2	—	—	6387	Transmission High Side Driver 1 Signal Driver	I	—

cardiagn.com

Q77F Transmission Control Solenoid Valve 6 (M5U)



4051391

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13956948
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (VT)

Terminal Part Information

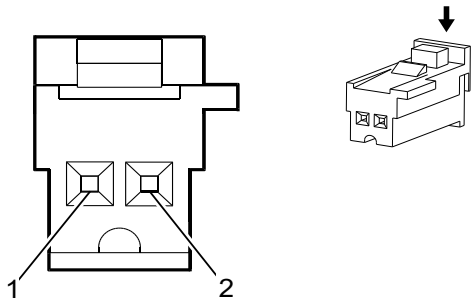
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77F Transmission Control Solenoid Valve 6 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	6403	Clutch D Control	I	—
2	—	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

cardiagn.com

Q77G Transmission Control Solenoid Valve 7 (M5U)



4008644

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 13941672
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 MTS Series (GY)

Terminal Part Information

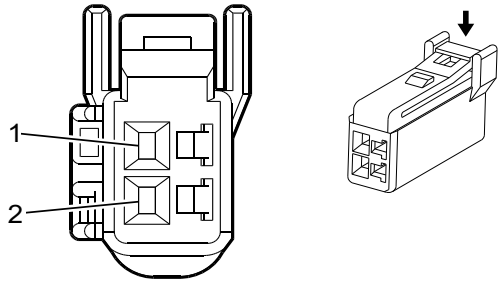
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77G Transmission Control Solenoid Valve 7 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	YE/BN	6404	Clutch E Control	I	—
2	—	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

cardiagn.com

Q77H Transmission Control Solenoid Valve 8 (M5U)



4051682

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 7287-0122
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 040 III Series (NA)

Terminal Part Information

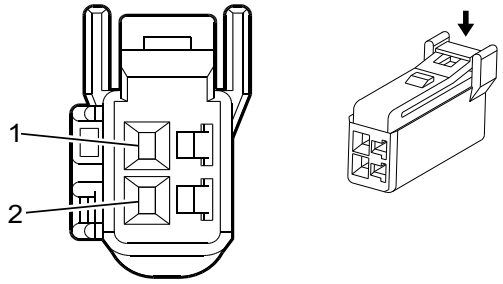
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q77H Transmission Control Solenoid Valve 8 (M5U)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	6387	Transmission High Side Driver 1 Signal Driver	I	—
2	—	—	6380	TCC On/Off Solenoid A Control	I	—

cardiagn.com

Q77J Transmission Control Solenoid Valve 9 (M5U)



4051682

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 7287-0122
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 040 III Series (NA)

Terminal Part Information

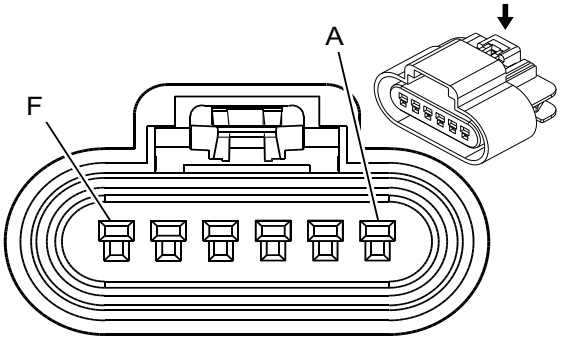
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

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 Signal	I	—
2	—	YE/BN	6210	TCC On/Off Solenoid B Control	I	—

cardiagn.com

Q85 Cooling Fan Clutch (LWN)



632357

Connector Part Information

Harness Type: Electro Viscous Fan Clutch Jumper
OEM Connector: 19177552
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

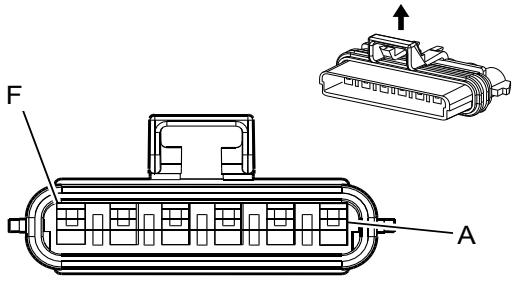
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

Q85 Cooling Fan Clutch (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	BK	550	Ground	I	—
B	—	WH	2368	Cooling Fan Control Signal	I	—
C	—	BK/BN	6141	Cooling Fan Speed Low Reference	I	—
D	—	BU/VT	2364	Cooling Fan Speed Signal	I	—
E	—	GY/RD	2365	Cooling Fan Speed 5V Reference	I	—
F	—	—	—	Not Occupied	—	—

cardiagn.com

R3 Blower Motor Resistor



535914

Connector Part Information

Harness Type: Engine
OEM Connector: 12160746
Service Connector: 15306007
Description: 6-Way F 280 Metri-Pack Flexlock Series, Sealed (L-GY)

Terminal Part Information

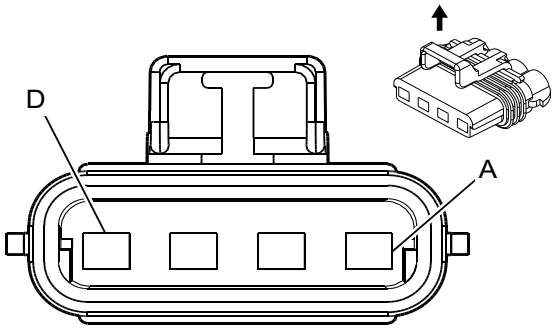
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

R3 Blower Motor Resistor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	RD/BK	542	Battery Positive Voltage	I	—
B	0.8	OG	52	High Blower Motor Control	I	—
C	5	BK	1250	Ground	I	—
D	0.8	TN	63	Medium Blower Motor Control 1	I	—
E	0.8	YE	60	Low Blower Motor Control	I	—
F	2	L-BU	72	Medium 2 Blower Motor Control	I	—

cardiagn.com

R3B Blower Motor Resistor - Auxiliary



697053

Connector Part Information

Harness Type: Auxiliary HVAC
OEM Connector: 12129566
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 280 Metri-Pack Series, Sealed (GY)

Terminal Part Information

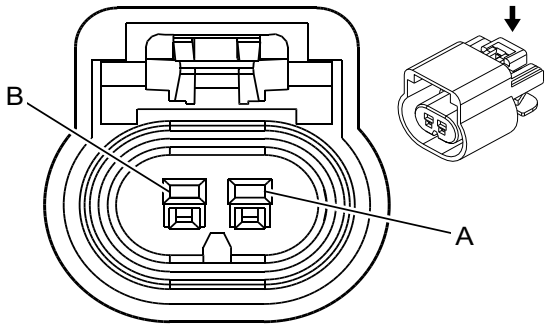
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

R3B Blower Motor Resistor - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	YE	1176	Auxiliary Blower Motor Low Speed Control	I	—
B	—	—	—	Not Occupied	—	—
C	3	L-BU	1072	Auxiliary Blower Motor Medium Speed Control	I	—
D	3	YE	1172	Auxiliary Blower Motor Control	I	—

cardiagn.com

R6A Terminating Resistor - High Speed Bus



523630

Connector Part Information

Harness Type: Engine
OEM Connector: 13510085
Service Connector: 13580114
Description: 2-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

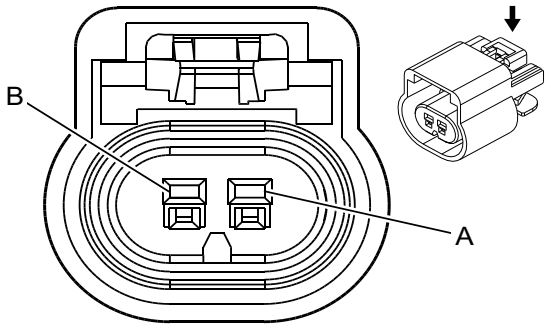
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

R6A Terminating Resistor - High Speed Bus

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	M5U
B	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	M5U

cardiagn.com

R10 Cooling Fan Resistor



523630

Connector Part Information

Harness Type: Engine
OEM Connector: 13510085
Service Connector: 13580114
Description: 2-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

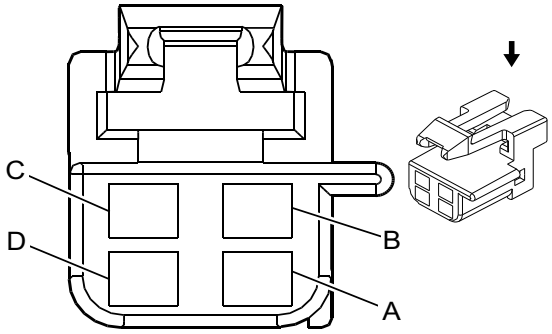
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

R10 Cooling Fan Resistor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GY/RD	2365	Cooling Fan Speed 5V Reference	I	—
B	0.5	BU/VT	2364	Cooling Fan Speed Signal	I	—

cardiagn.com

S2 Transmission Manual Shift Switch (MYD)



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

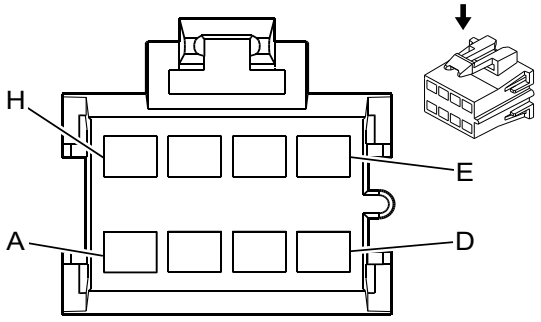
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S2 Transmission Manual Shift Switch (MYD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A - B	—	—	—	Not Occupied	—	—
C	—	PU	5526	Tap Up/Tap Down Switch Signal	I	—
D	—	PK	1444	12V Reference	I	—

cardiagn.com

S13A Door Lock Switch - Rear Cargo



62469

Connector Part Information

Harness Type: Rear Cargo Door
OEM Connector: 12064998
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

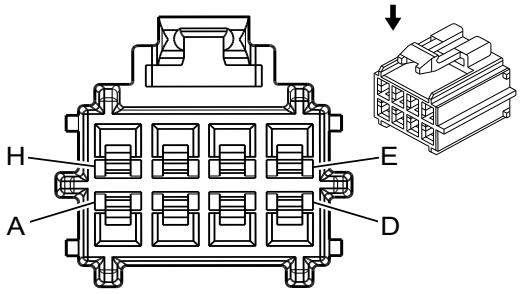
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S13A Door Lock Switch - Rear Cargo

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	L-BU	244	Passenger Door Lock Switch Lock Control	I	—
B - C	—	—	—	Not Occupied	—	—
D	0.35	D-BU/	245	Passenger Door Lock Switch Unlock Control	I	—
E	0.35	BK/WH	1051	Signal Ground	I	—
F - H	—	—	—	Not Occupied	—	—

cardiagn.com

S13D Door Lock Switch - Driver



851474

Connector Part Information

Harness Type: Driver Door
OEM Connector: 15418533
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 GT Series (L-GN)

Terminal Part Information

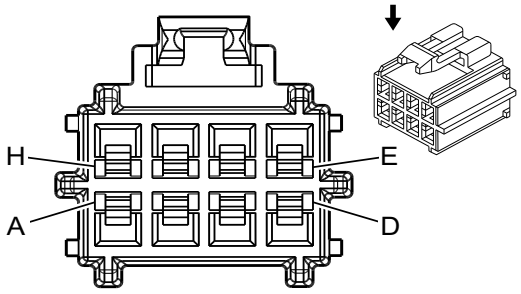
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S13D Door Lock Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	450	Ground	I	—
B	0.35	BK	450	Ground	I	—
C	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	—
H	—	—	—	Not Occupied	—	—

cardiagn.com

S13P Door Lock Switch - Passenger



851474

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 15418533
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 GT Series (L-GN)

Terminal Part Information

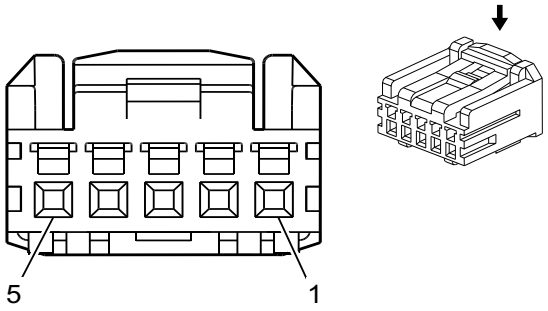
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S13P Door Lock Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	1850	Ground	I	—
B	0.35	BK	1850	Ground	I	—
C	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	—
H	—	—	—	Not Occupied	—	—

cardiagn.com

S16 Driver Information Center Switch



1673494

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15491277
Service Connector: 88988747
Description: 5-Way F HCM Series (BK)

Terminal Part Information

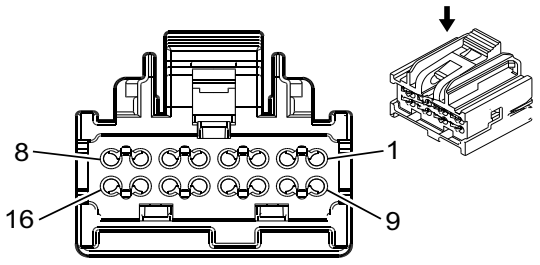
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	I	—
2	0.35	BN	897	Driver Information Center Switch Low Reference	I	—
3	0.35	PK	893	Driver Information Center Select Menu Switch Signal	I	—
4	0.5	YE	6817	LED Backlight Dimming Control	I	—
5	0.5	BK/WH	351	Signal Ground	I	—

cardiagn.com

S30 Headlamp Switch



2127936

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13568238
Service Connector: 13504130
Description: 16-Way F 64 Micro-Series, Sealed (BK)

Terminal Part Information

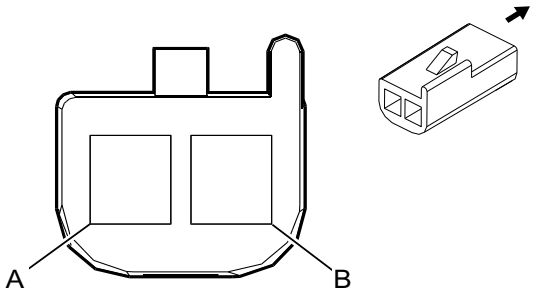
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13579976	J-35616-64B (LT BU)	J-38125-21	15359541	Delphi 4	M	M
II	13582245	J-35616-64B (LT BU)	J-38125-21	15359541	Delphi 4	M	M

S30 Headlamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH	103	Headlamp Switch On Signal	II	—
2	0.35	L-BU	13	Headlamp Switch Park Lamp Signal	II	—
3	0.35	D-GN	306	Headlamp Switch Headlamps Off Signal Control	II	—
4 - 6	—	—	—	Not Occupied	—	—
7	0.35	BN/WH	230	Instrument Panel Lamp Dimming Control	II	—
8	0.5	BK/WH	351	Signal Ground	I	—
9	0.35	PU/	328	Interior Lamp Defeat Switch Signal	II	—
10 - 11	—	—	—	Not Occupied	—	—
12	0.35	D-BU/WH	149	Courtesy Lamp Control	II	—
13	0.35	D-GN	44	Instrument Panel Lamp Dimmer Switch Signal	II	—
14	—	—	—	Not Occupied	—	—
15	0.35	OG/WH	812	12V Reference	II	—
16	—	—	—	Not Occupied	—	—

cardiagn.com

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

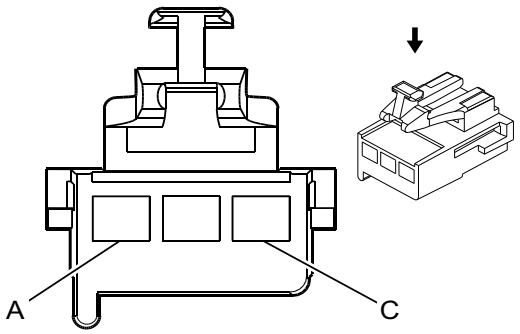
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S33 Horn Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	TN	28	Horn Relay Control	I	—
B	—	BK	350	Ground	I	—

cardiagn.com

S34 HVAC Controls Switch Assembly X1



68737

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12129489
Service Connector: 19368864
Description: 3-Way F 280 Metri-Pack Flexlock Series (BK)

Terminal Part Information

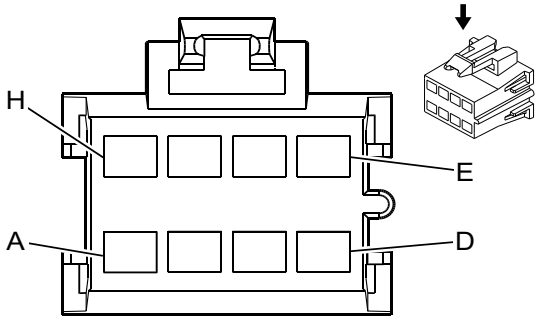
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S34 HVAC Controls Switch Assembly X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	WH	119	Mode Door Control	I	—
B	1	BK	550	Ground	I	—
C	0.35	BN/WH	230	Instrument Panel Lamp Dimming Control	I	—

cardiagn.com

S34 HVAC Controls Switch Assembly X2



62469

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12064998
Service Connector: 15306189
Description: 8-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

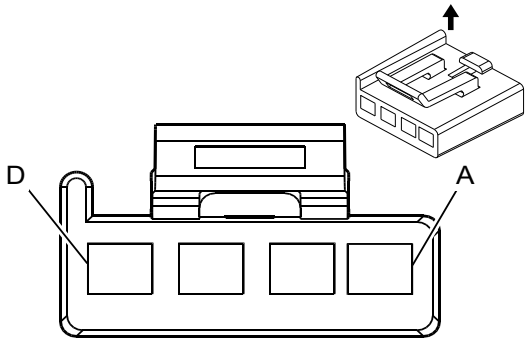
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S34 HVAC Controls Switch Assembly X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	YE	60	Low Blower Motor Control	I	—
B	0.8	TN	63	Medium Blower Motor Control 1	I	—
C	0.8	L-BU	72	Medium 2 Blower Motor Control	I	—
D	0.8	OG	52	High Blower Motor Control	I	—
E	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	—
H	0.5	D-GN/WH	762	A/C Request Signal	I	—

cardiagn.com

S34 HVAC Controls Switch Assembly X3



62450

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12052856
Service Connector: 12125636
Description: 4-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

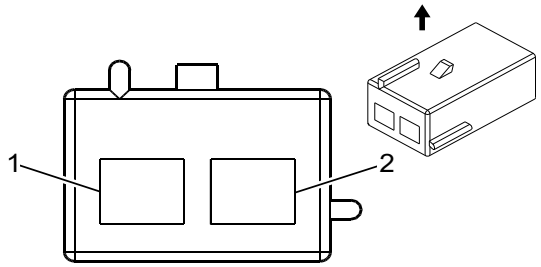
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S34 HVAC Controls Switch Assembly X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	RD/WH	4440	Battery Positive Voltage	I	—
B	0.35	BN	341	Run Ignition 3 Voltage	I	—
C	1	BK	550	Ground	I	—
D	0.35	WH	193	Rear Defog Relay Control	I	—

cardiagn.com

S34 HVAC Controls Switch Assembly X4



1283895

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15318080
Service Connector: 21019410
Description: 2-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

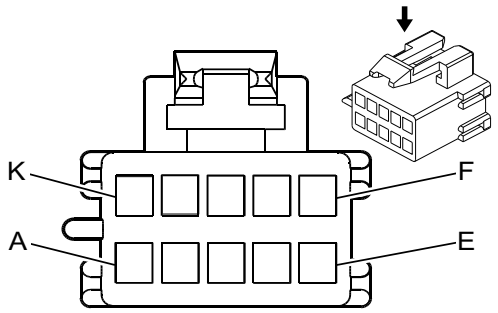
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S34 HVAC Controls Switch Assembly X4

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	I	—

cardiagn.com

S34F HVAC Controls Switch Assembly - Auxiliary Front (REAR HVAC CONTROLS)



62464

Connector Part Information

Harness Type: Headliner
OEM Connector: 12064769
Service Connector: 12101762
Description: 10-Way F 150 Metri-Pack Series (NA)

Terminal Part Information

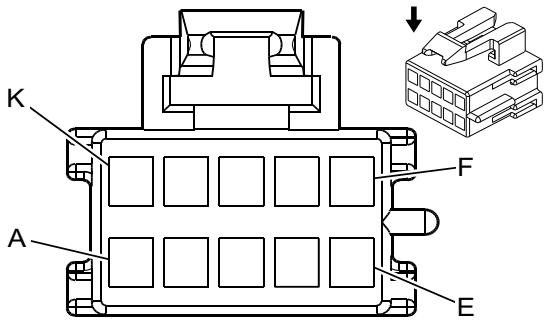
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	Delphi 2	E	C

S34F HVAC Controls Switch Assembly - Auxiliary Front (REAR HVAC CONTROLS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BN/WH	230	Instrument Panel Lamp Dimming Control	I	—
B	0.35	BK	1850	Ground	I	—
C	0.5	D-BU/	1926	Auxiliary Blower Motor Low Speed Control	I	—
D	0.5	WH	1924	Auxiliary Blower Motor High Speed Control	I	—
E	0.5	OG	1925	Auxiliary Blower Motor Medium Speed Control	I	—
F	0.35	YE	5262	Dual Logic Module Rear Control Enable Signal	I	—
G	0.35	BN	341	Run Ignition 3 Voltage	I	—
H	0.35	PU/	5260	Dual Logic Module Front Temperature Signal	I	—
J	0.35	TN	5261	Dual Logic Module Front Mode Signal	I	—
K	—	—	—	Not Occupied	—	—

cardiagn.com

S34F HVAC Controls Switch Assembly - Auxiliary Front (-REAR HVAC CONTROLS)



803688

Connector Part Information

Harness Type: Headliner
OEM Connector: 12064871
Service Connector: 12101832
Description: 10-Way F 150 Metri-Pack Series (BU)

Terminal Part Information

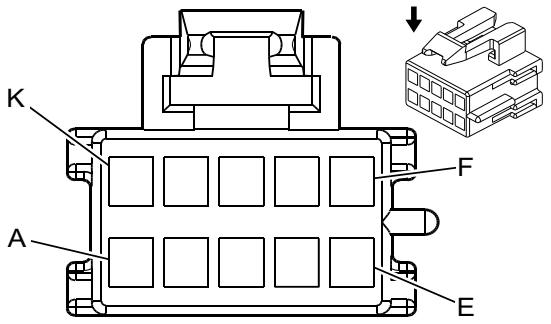
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	Delphi 2	E	C

S34F HVAC Controls Switch Assembly - Auxiliary Front (-REAR HVAC CONTROLS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BN/WH	230	Instrument Panel Lamp Dimming Control	I	—
B	0.35	BK	1850	Ground	I	—
C	0.5	D-BU/	1926	Auxiliary Blower Motor Low Speed Control	I	—
D	0.5	WH	1924	Auxiliary Blower Motor High Speed Control	I	—
E	0.5	OG	1925	Auxiliary Blower Motor Medium Speed Control	I	—
F	0.35	BK	1850	Ground	I	—
G	0.35	BN	341	Run Ignition 3 Voltage	I	—
H	0.35	OG	2775	Rear Air Temperature Motor Control	I	—
J	0.35	GY	2599	Rear Mode Motor Signal	I	—
K	—	—	—	Not Occupied	—	—

cardiagn.com

S34R HVAC Controls Switch Assembly - Auxiliary Rear



803688

Connector Part Information

Harness Type: Headliner
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	Delphi 2	E	C
II	19300422	J-35616-14 (GN)	J-38125-12A	15326030	Delphi 2	E	C

S34R HVAC Controls Switch Assembly - Auxiliary Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35 0.35	BN/WH BN/WH	230 230	Instrument Panel Lamp Dimming Control Instrument Panel Lamp Dimming Control	I II	C69+5BV C69+REAR HVAC CONTROLS
B	0.5 0.5	BK BK	1850 1050	Ground Ground	I I	C69+5BV C69+REAR HVAC CONTROLS
C	0.5	D-BU/	1926	Auxiliary Blower Motor Low Speed Control	II	—
D	0.5	WH	1924	Auxiliary Blower Motor High Speed Control	II	—
E	0.5	OG	1925	Auxiliary Blower Motor Medium Speed Control	II	—
F	0.35 0.5	PK/BK PK/BK	5265 5265	Dual Logic Module Rear Control Signal Dual Logic Module Rear Control Signal	I I	C69+5BV C69+REAR HVAC CONTROLS
G	0.35 0.35	BN BN	341 341	Run Ignition 3 Voltage Run Ignition 3 Voltage	I II	C69+5BV C69+REAR HVAC CONTROLS
H	0.35 0.5	BN BN	5263 5263	Dual Logic Module Rear Temperature Signal Dual Logic Module Rear Temperature Signal	I I	C69+5BV C69+REAR HVAC CONTROLS

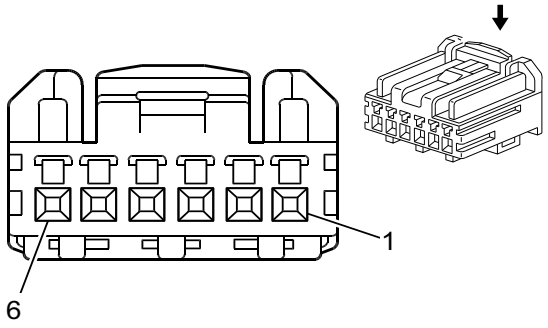
cardiagn.com

S34R HVAC Controls Switch Assembly - Auxiliary Rear (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
J	0.35 0.5	PU/WH PU/WH	5264 5264	Dual Logic Module Rear Mode Signal Dual Logic Module Rear Mode Signal	II II	C69+5BV C69+REAR HVAC CONTROLS
K	—	—	—	Not Occupied	—	—

cardiagn.com

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

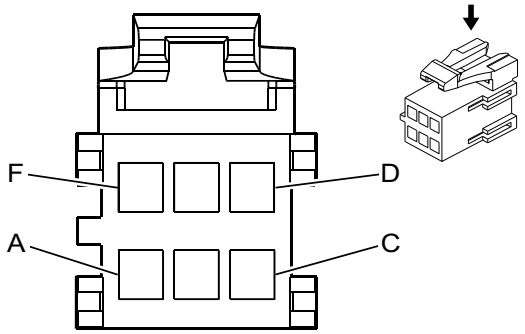
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	—

cardiagn.com

S40 Passenger Air Bag Disable Switch



362753

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15305286
Service Connector: 15306014
Description: 6-Way F 150 Metri-Pack Series (YE)

Terminal Part Information

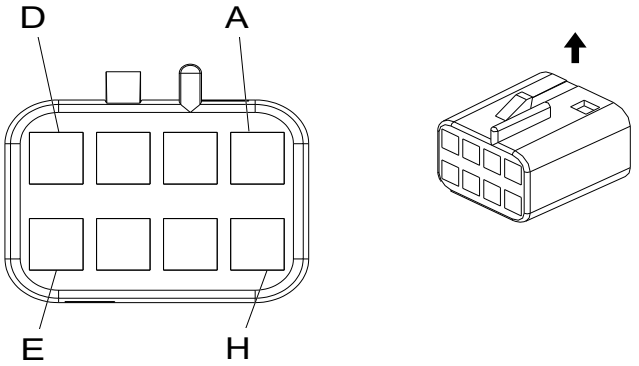
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S40 Passenger Air Bag Disable Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	TN/BK	371	Passenger IP Module Disable Switch Signal	I	—
B	0.35	PK	1139	Run/Crank Ignition 1 Voltage	I	—
C	0.35	D-BU/	2307	Passenger Air Bag On Indicator Control	I	—
D	0.5	PK	353	Passenger IP Module Suppression Indicator Control	I	—
E	0.5	BK/WH	1751	Signal Ground	I	—
F	0.35	D-GN	2308	Passenger Air Bag Off Indicator Control	I	—

cardiagn.com

S51 Telematics Button Assembly



62439

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12047886
Service Connector: 13584485
Description: 8-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

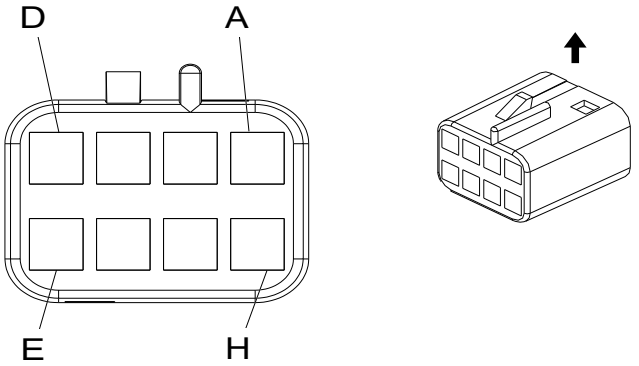
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S51 Telematics Button Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	L-GN/BK	2515	Keypad Control	I	—
B	0.8	D-GN/WH	2514	Keypad Signal	I	—
C - D	—	—	—	Not Occupied	—	—
E	1	BK/WH	351	Signal Ground	I	—
F	0.8	YE/BK	2516	Keypad Green LED Control	I	—
G	0.8	BN/WH	2517	Keypad Red LED Control	I	—
H	—	—	—	Not Occupied	—	—

cardiagn.com

S52 Outside Rearview Mirror Switch



62439

Connector Part Information

Harness Type: Driver Door
OEM Connector: 12047886
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

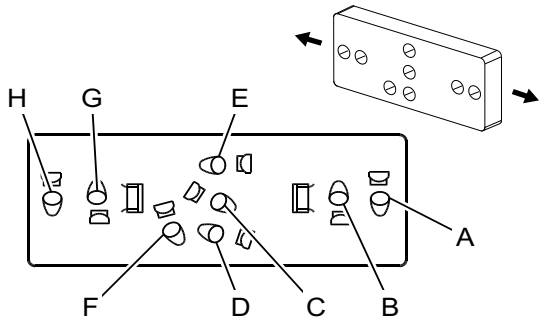
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S52 Outside Rearview Mirror Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	OG/WH	881	Right Mirror Motor Right Control	I	—
B	0.35	PU/WH	889	Right Mirror Motor Down Control	I	—
C	0.35	BN/WH	1498	Right Mirror Motor Up Control	I	—
D	0.5	BK	450	Ground	I	—
E	0.5	RD/WH	4340	Battery Positive Voltage	I	—
F	0.35	L-GN	89	Left Mirror Motor Down Control	I	—
G	0.35	WH	81	Left Mirror Motor Right Control	I	—
H	0.35	YE	88	Left Mirror Motor Up Control	I	—

cardiagn.com

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

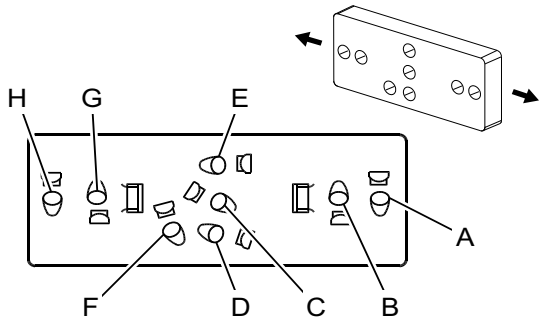
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S64D Seat Adjuster Switch - Driver (AG1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	L-BU	283	Driver Power Seat Rear Vertical Motor Down Control	I	—
B	—	YE	282	Driver Power Seat Rear Vertical Motor Up Control	I	—
C	—	BK	450	Ground	I	—
D	—	TN	285	Driver Power Seat Horizontal Motor Forward Control	I	—
E	—	L-GN	284	Driver Power Seat Horizontal Motor Rearward Control	I	—
F	—	RD/WH	3540	Battery Positive Voltage	I	—
G	—	D-BU	287	Driver Power Seat Front Vertical Motor Down Control	I	—
H	—	D-GN	286	Driver Power Seat Front Vertical Motor Up Control	I	—

cardiagn.com

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

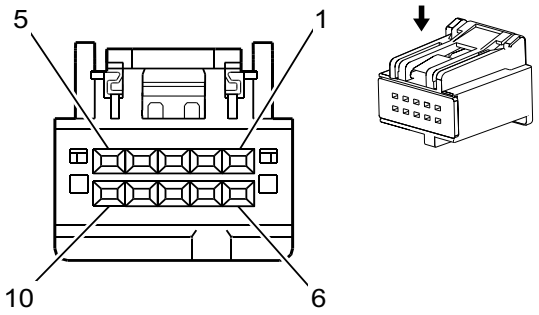
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S64P Seat Adjuster Switch - Passenger (AG2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	L-BU	289	Passenger Power Seat Rear Vertical Motor Down Control	I	—
B	—	YE	288	Passenger Power Seat Rear Vertical Motor Up Control	I	—
C	—	BK	1850	Ground	I	—
D	—	TN	296	Passenger Power Seat Horizontal Motor Forward Control	I	—
E	—	L-GN	290	Passenger Power Seat Horizontal Motor Rearward Control	I	—
F	—	RD/WH	3540	Battery Positive Voltage	I	—
G	—	D-BU	298	Passenger Power Seat Front Vertical Motor Down Control	I	—
H	—	D-GN	297	Passenger Power Seat Front Vertical Motor Up Control	I	—

cardiagn.com

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

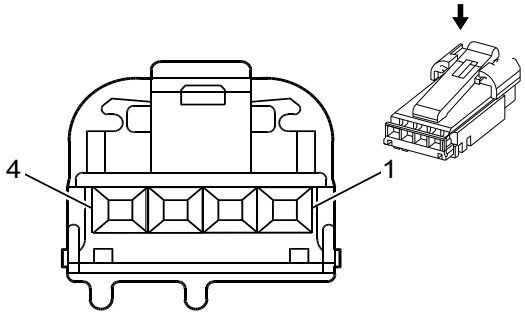
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	—	GN/WH	7158	Cruise Control Indicator Dimming Signal	I	—
10	—	—	—	Not Occupied	—	—

cardiagn.com

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

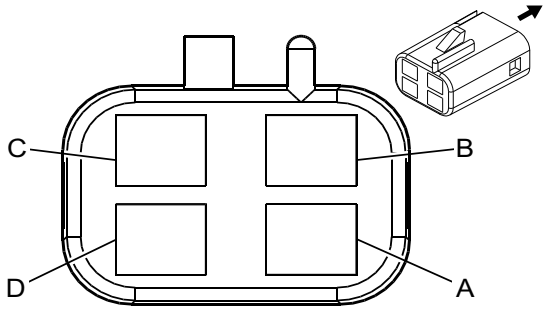
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S70R Steering Wheel Controls Switch - Right (W1Y)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	BK	350	Ground	I	—
2	—	BN	6136	Control	I	—
3	—	PK	1444	12V Reference	I	—
4	—	L-GN	6818	Steering Wheel Resistor Ladder Signal 1	I	—

cardiagn.com

S74 Tow/Haul Mode Switch



39660

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12047785
Service Connector: 12102900
Description: 4-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

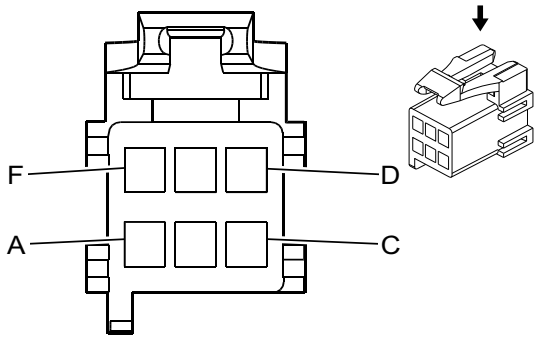
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S74 Tow/Haul Mode Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK/WH	351	Signal Ground	I	—
B	0.35	BN/WH	230	Instrument Panel Lamp Dimming Control	I	—
C	—	—	—	Not Occupied	—	—
D	0.35	L-BU	1788	Traction Control Switch Signal 1	I	—

cardiagn.com

S75 Traction Control Switch



304345

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12177195
Service Connector: 15305931
Description: 6-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

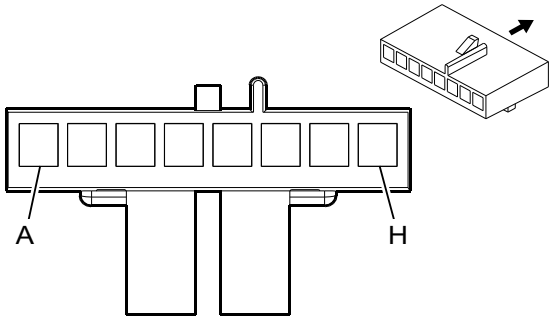
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S75 Traction Control Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A - B	—	—	—	Not Occupied	—	—
C	0.35	BK/WH	351	Signal Ground	I	—
D	0.35	BN/WH	230	Instrument Panel Lamp Dimming Control	I	—
E	—	—	—	Not Occupied	—	—
F	0.5	D-BU/	6727	Vehicle Stability Control Off Switch Signal	I	—

cardiagn.com

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

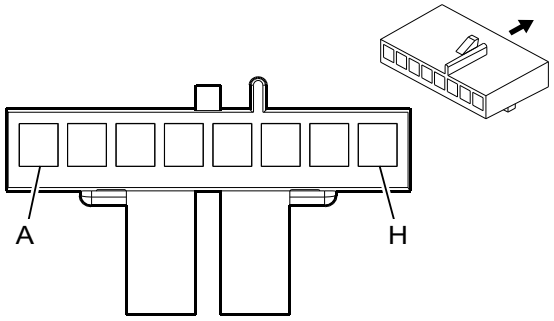
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S78 Turn Signal/Multifunction Switch X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A - B	—	—	—	Not Occupied	—	—
C	—	BK/WH	351	Signal Ground	I	—
D	—	TN	664	Hazard Switch Right Turn Signal	I	—
E	—	D-GN	663	Hazard Switch Left Turn Signal	I	—
F	—	BK/WH	351	Signal Ground	I	—
G	—	WH	111	Hazard Switch Signal	I	—
H	—	—	—	Not Occupied	—	—

cardiagn.com

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

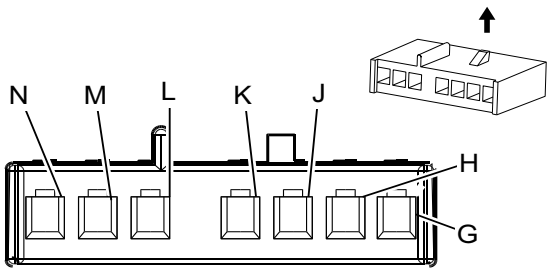
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

S78 Turn Signal/Multifunction Switch X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A - B	—	—	—	Not Occupied	—	—
C	—	YE	525	Headlamp Dimmer Switch Low Beam Signal	I	—
D	—	BK/WH	351	Signal Ground	I	—
E	—	YE	307	Headlamp Switch Flash To Pass Signal	I	—
F - H	—	—	—	Not Occupied	—	—

cardiagn.com

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

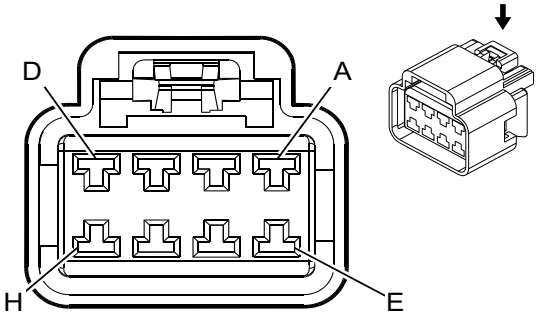
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	—
M	—	TN/BK	6009	Windshield Wiper Switch Low Reference	I	—
N	—	L-BU	1714	Windshield Wiper Switch Low Signal	I	—

cardiagn.com

S79D Window Switch - Driver



556473

Connector Part Information

Harness Type: Driver Door
OEM Connector: 15459914
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 GT Series (BK)

Terminal Part Information

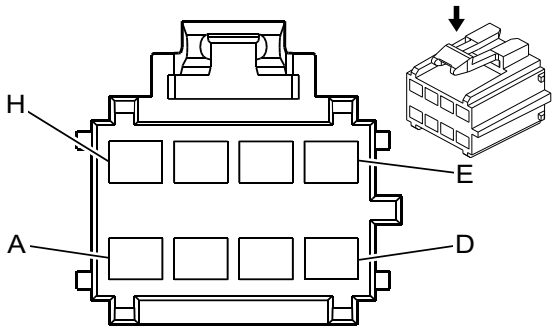
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S79D Window Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	L-BU	166	Power Window Master Switch Right Front Up Signal	I	—
B	0.35	BN/WH	230	Instrument Panel Lamp Dimming Control	I	—
C	3	D-GN	1001	Retained Accessory Power Ignition	I	—
D	3	TN	167	Power Window Master Switch Right Front Down Signal	I	—
E	—	—	—	Not Occupied	—	—
F	3	BK	450	Ground	I	—
G	3	D-BU/	164	Power Window Motor Left Front Up Control	I	—
H	3	BN	165	Power Window Motor Left Front Down Control	I	—

cardiagn.com

S79P Window Switch - Passenger



333036

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 12191825
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 Metri-Pack Series (BN)

Terminal Part Information

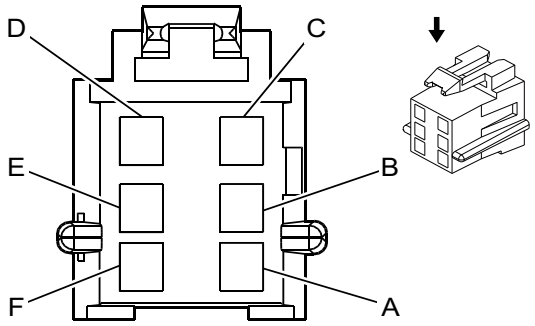
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S79P Window Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	D-GN	1001	Retained Accessory Power Ignition	I	—
B	0.35	BN/WH	230	Instrument Panel Lamp Dimming Control	I	—
C	0.35	BK	1850	Ground	I	—
D	3	TN	167	Power Window Master Switch Right Front Down Signal	I	—
E	—	—	—	Not Occupied	—	—
F	3	BN	667	Power Window Motor Right Front Down Control	I	—
G	3	D-BU/	666	Power Window Motor Right Front Up Control	I	—
H	3	L-BU	166	Power Window Master Switch Right Front Up Signal	I	—

cardiagn.com

S85 Auxiliary Blower Motor Switch



62456

Connector Part Information

Harness Type: Auxiliary Heater Front
OEM Connector: 12064752
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

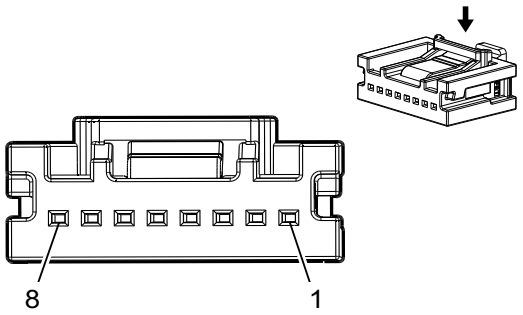
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S85 Auxiliary Blower Motor Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BN/WH	230	Instrument Panel Lamp Dimming Control	I	—
B	0.35	BK	450	Ground	I	—
C	—	—	—	Not Occupied	—	—
D	0.35	WH	1924	Auxiliary Blower Motor High Speed Control	I	—
E	0.35	D-BU/	1926	Auxiliary Blower Motor Low Speed Control	I	—
F	0.35	OG	1925	Auxiliary Blower Motor Medium Speed Control	I	—

cardiagn.com

S155 Lane Departure Warning Switch



4017639

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 33227522
Service Connector: 19354223
Description: 8-Way F Mini 50 Series (BK)

Terminal Part Information

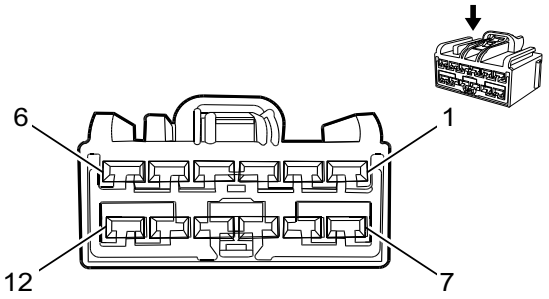
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	EL-35616-58 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

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	I	—
8	0.35	BK/WH	2151	Signal Ground	I	—

cardiagn.com

T1 Accessory DC/AC Power Inverter Module



2231648

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 10846814
Service Connector: 13580444
Description: 12-Way F 2.8 Kaizen Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-4A (PU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	19301752	J-35616-4A (PU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
III	19301761	J-35616-4A (PU)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

T1 Accessory DC/AC Power Inverter Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	1	BK	5683	120 V AC Phase A	III	—
3 - 5	—	—	—	Not Occupied	—	—
6	3	RD/WH	4140	Battery Positive Voltage	II	—
7	1	WH	5685	120 V AC Neutral	III	—
8 - 9	—	—	—	Not Occupied	—	—
10	0.5	BK/WH	1351	Signal Ground	I	—
11	3	BK	550	Ground	II	—
12	0.35	D-GN	2266	DC To AC Inverter Control 2	I	—

cardiagn.com

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

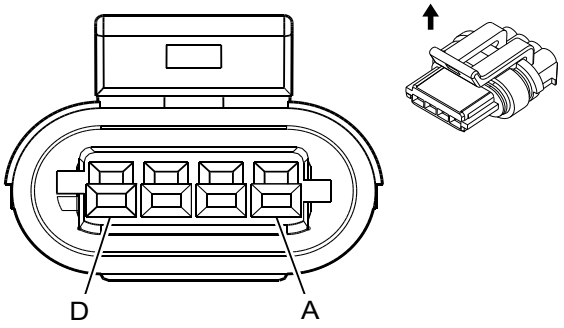
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

T4M Radio Antenna

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
BK	—	—	COAX	Coax Cable	I	—

cardiagn.com

T8A Ignition Coil 1 (L96/LC8)



1581641

Connector Part Information

Harness Type: Ignition Coil
OEM Connector: 15439568
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

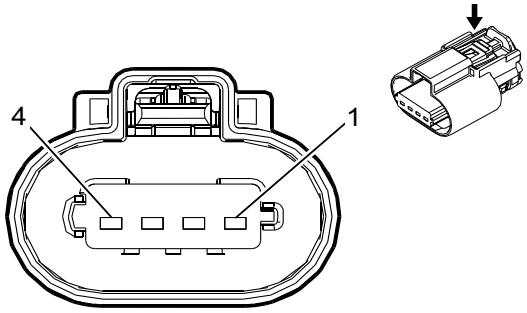
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8A Ignition Coil 1 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	151	Signal Ground	I	—
B	0.5	BN	2129	Ignition Control Low Reference Bank 1	I	—
C	0.5	PU/	2121	Ignition Control 1	I	—
D	0.8	PK/	1039	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8A Ignition Coil 1 (LV1)



3240115

Connector Part Information

Harness Type: Engine
OEM Connector: 13863211
Service Connector: 19367596
Description: 4-Way F 150 MX Series, Sealed (BK)

Terminal Part Information

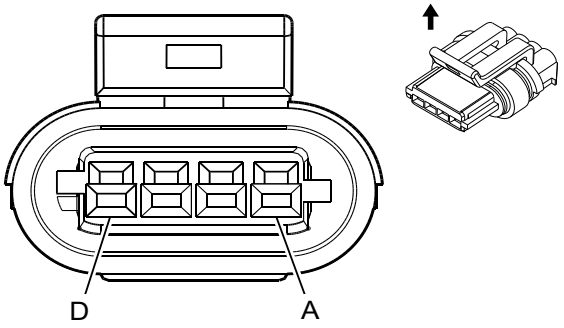
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8A Ignition Coil 1 (LV1)

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	I	—
3	0.5	BU/VT	2121	Ignition Control 1	I	—
4	0.75	VT/GY	1039	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8B Ignition Coil 2 (L96/LC8)



1581641

Connector Part Information

Harness Type: Ignition Coil
OEM Connector: 15439568
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

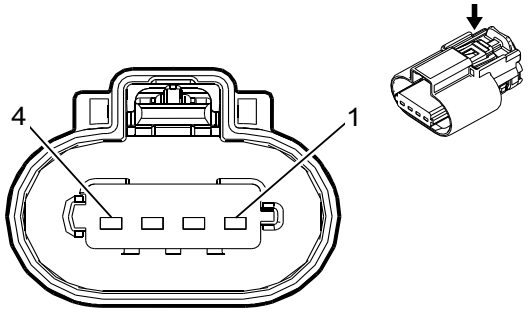
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8B Ignition Coil 2 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	151	Signal Ground	I	—
B	0.5	BN/WH	2130	Ignition Control Low Reference Bank 2	I	—
C	0.5	OG/WH	2122	Ignition Control 2	I	—
D	0.8	PK/	1239	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8B Ignition Coil 2 (LV1)



3240115

Connector Part Information

Harness Type: Engine
OEM Connector: 13863211
Service Connector: 19367596
Description: 4-Way F 150 MX Series, Sealed (BK)

Terminal Part Information

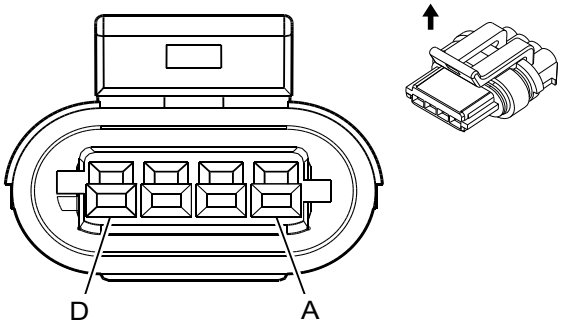
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8B Ignition Coil 2 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	I	—
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	—
3	0.5	BU/WH	2122	Ignition Control 2	I	—
4	0.75	VT/BK	1239	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8C Ignition Coil 3 (L96/LC8)



1581641

Connector Part Information

Harness Type: Ignition Coil
OEM Connector: 15439568
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

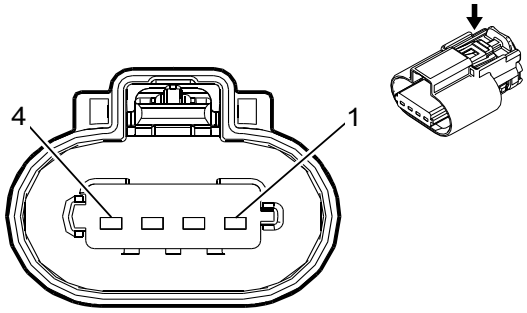
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8C Ignition Coil 3 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	151	Signal Ground	I	—
B	0.5	BN	2129	Ignition Control Low Reference Bank 1	I	—
C	0.5	L-BU	2123	Ignition Control 3	I	—
D	0.8	PK/	1039	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8C Ignition Coil 3 (LV1)



3240115

Connector Part Information

Harness Type: Engine
OEM Connector: 13863211
Service Connector: 19367596
Description: 4-Way F 150 MX Series, Sealed (BK)

Terminal Part Information

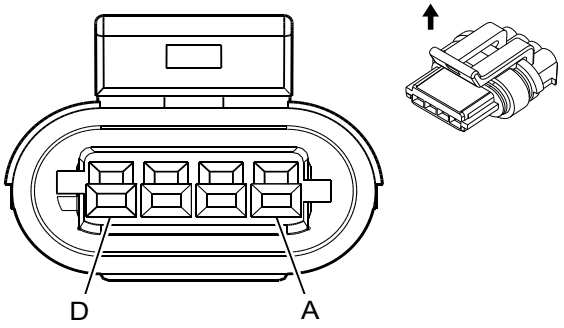
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8C Ignition Coil 3 (LV1)

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	I	—
3	0.5	L-GN/D-BU	2123	Ignition Control 3	I	—
4	0.75	VT/GY	1039	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8D Ignition Coil 4 (L96/LC8)



1581641

Connector Part Information

Harness Type: Ignition Coil
OEM Connector: 15439568
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

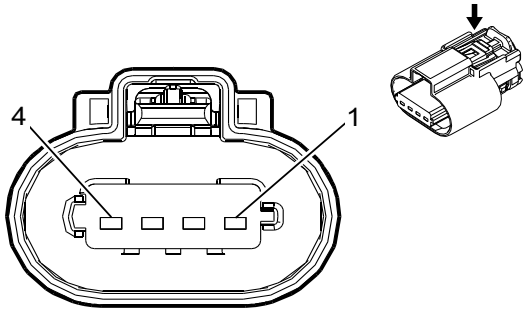
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8D Ignition Coil 4 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	151	Signal Ground	I	—
B	0.5	BN/WH	2130	Ignition Control Low Reference Bank 2	I	—
C	0.5	D-GN/WH	2124	Ignition Control 4	I	—
D	0.8	PK/	1239	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8D Ignition Coil 4 (LV1)



3240115

Connector Part Information

Harness Type: Engine
OEM Connector: 13863211
Service Connector: 19367596
Description: 4-Way F 150 MX Series, Sealed (BK)

Terminal Part Information

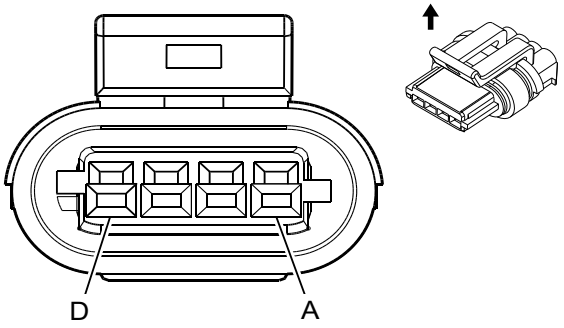
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8D Ignition Coil 4 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	I	—
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	—
3	0.5	YE/D-BU	2124	Ignition Control 4	I	LV1
4	0.75	VT/BK	1239	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8E Ignition Coil 5 (L96/LC8)



1581641

Connector Part Information

Harness Type: Ignition Coil
OEM Connector: 15439568
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

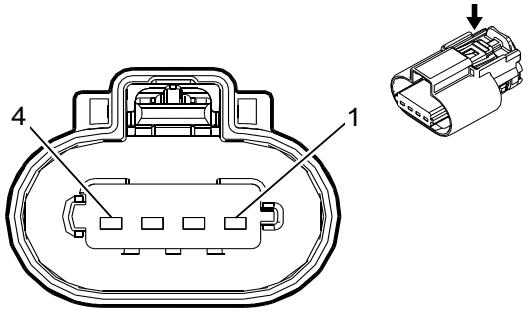
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8E Ignition Coil 5 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	151	Signal Ground	I	—
B	0.5	BN	2129	Ignition Control Low Reference Bank 1	I	—
C	0.5	D-GN	2125	Ignition Control 5	I	—
D	0.8	PK/	1039	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8E Ignition Coil 5 (LV1)



3240115

Connector Part Information

Harness Type: Engine
OEM Connector: 13863211
Service Connector: 19367596
Description: 4-Way F 150 MX Series, Sealed (BK)

Terminal Part Information

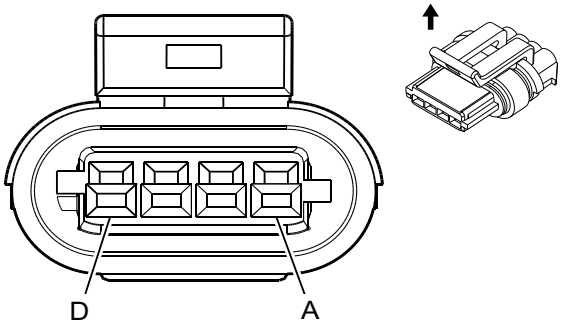
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8E Ignition Coil 5 (LV1)

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	I	—
3	0.5	BU/GY	2125	Ignition Control 5	I	—
4	0.75	VT/GY	1039	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8F Ignition Coil 6 (L96/LC8)



1581641

Connector Part Information

Harness Type: Ignition Coil
OEM Connector: 15439568
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

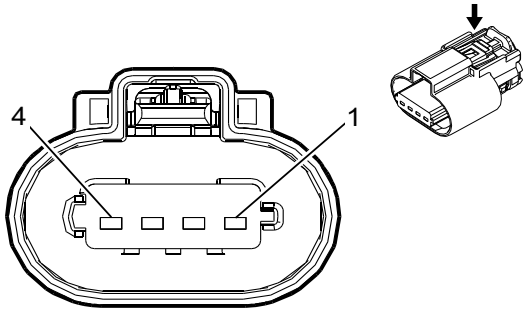
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8F Ignition Coil 6 (L96/LC8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	151	Signal Ground	I	—
B	0.5	BN/WH	2130	Ignition Control Low Reference Bank 2	I	—
C	0.5	L-BU/WH	2126	Ignition Control 6	I	—
D	0.8	PK/	1239	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8F Ignition Coil 6 (LV1)



3240115

Connector Part Information

Harness Type: Engine
OEM Connector: 13863211
Service Connector: 19367596
Description: 4-Way F 150 MX Series, Sealed (BK)

Terminal Part Information

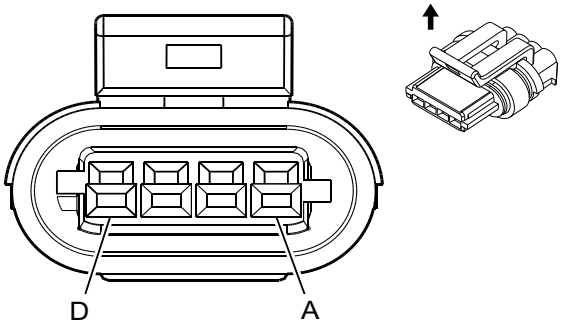
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8F Ignition Coil 6 (LV1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	350	Ground	I	—
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	VT/BK	1239	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8G Ignition Coil 7



1581641

Connector Part Information

Harness Type: Ignition Coil
OEM Connector: 15439568
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

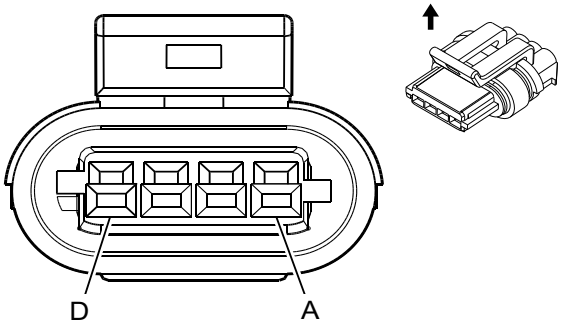
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8G Ignition Coil 7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	151	Signal Ground	I	—
B	0.5	BN	2129	Ignition Control Low Reference Bank 1	I	—
C	0.5	RD	2127	Ignition Control 7	I	—
D	0.8	PK/	1039	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T8H Ignition Coil 8



1581641

Connector Part Information

Harness Type: Ignition Coil
OEM Connector: 15439568
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 150 GT Series, Sealed (BK)

Terminal Part Information

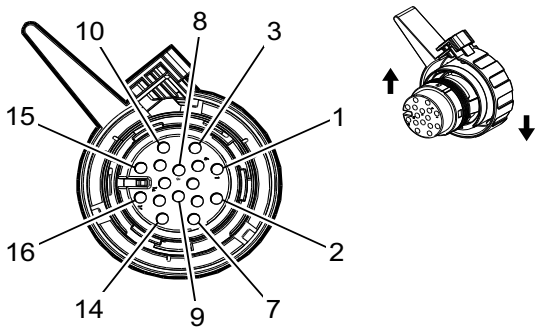
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

T8H Ignition Coil 8

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	151	Signal Ground	I	—
B	0.5	BN/WH	2130	Ignition Control Low Reference Bank 2	I	—
C	0.5	PU/WH	2128	Ignition Control 8	I	—
D	0.8	PK/	1239	Run/Crank Ignition 1 Voltage	I	—

cardiagn.com

T12 Automatic Transmission Assembly



3277917

Connector Part Information

Harness Type: Engine
OEM Connector: 13878751
Service Connector: 19303772
Description: 16-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

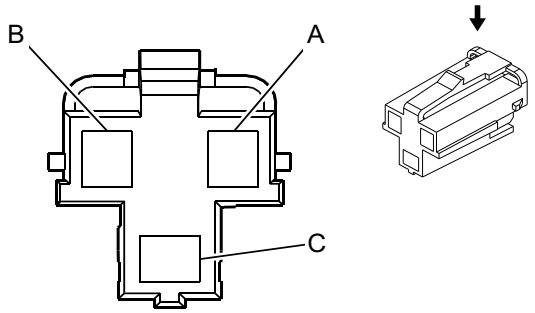
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575434	J-35616-66 (YE)	J-38125-28	2 21 24 47220 0	Yazaki 12	E	1
II	13578934	J-35616-66 (YE)	J-38125-28	2 21 24 47220 0	Yazaki 12	E	1

T12 Automatic Transmission Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	OG/BK	1786	Transmission Park/Neutral Signal 1	II	L96/LC8
4	0.35	RD/WH	1840	Battery Positive Voltage	I	—
5	0.8	BK/WH	1551	Signal Ground	II	—
6	0.5	L-BU/WH	6311	Cruise/ETC/TCC Brake Signal	II	L96/LC8
7	—	—	—	Not Occupied	—	—
8	0.5	TN	2501	High Speed GMLAN Serial Data (-) 1	II	—
9	0.5	D-BU/	5985	Accessory Wakeup Serial Data	II	L96/LC8
10	0.5	TN/BK	2500	High Speed GMLAN Serial Data (+) 1	II	—
11	0.5	TN	2501	High Speed GMLAN Serial Data (-) 1	II	—
12	0.5	PK	2139	Run/Crank Ignition 1 Voltage	II	L96/LC8
13	0.5	TN	2501	High Speed GMLAN Serial Data (-) 1	II	—
14	0.5	TN/BK	2500	High Speed GMLAN Serial Data (+) 1	II	—
15	0.5	TN/BK	2500	High Speed GMLAN Serial Data (+) 1	II	—
16	0.5	OG/BK	6399	Replicated TOS Signal	II	—

cardiagn.com

X80A Accessory Power Receptacle - Center Console 1 (-DT4)



362748

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12176836
Service Connector: 19257374
Description: 3-Way F 280 Metri-Pack Series (GY)

Terminal Part Information

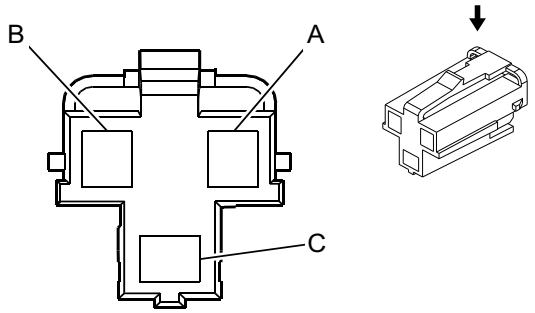
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X80A Accessory Power Receptacle - Center Console 1 (-DT4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	RD/WH	640	Battery Positive Voltage	I	—
B	—	—	—	Not Occupied	—	—
C	1	BK	550	Ground	I	—

cardiagn.com

X80B Accessory Power Receptacle - Center Console 2



362748

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12176836
Service Connector: 19257374
Description: 3-Way F 280 Metri-Pack Series (GY)

Terminal Part Information

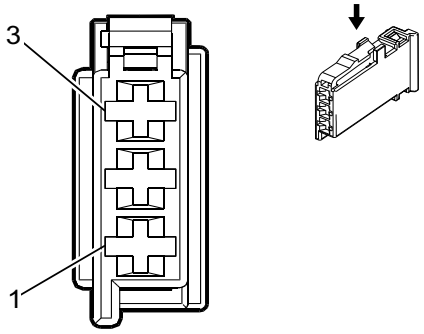
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X80B Accessory Power Receptacle - Center Console 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	RD/WH	1040	Battery Positive Voltage	I	—
B	—	—	—	Not Occupied	—	—
C	1	BK	550	Ground	I	—

cardiagn.com

X81 Accessory Power Receptacle - 110V AC X1



2039656

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 10865339
Service Connector: 93186706
Description: 3-Way F 1.6 Micro-Timer Series (BK)

Terminal Part Information

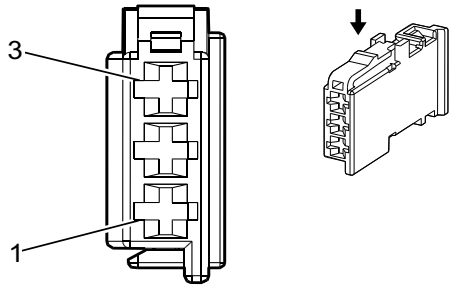
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X81 Accessory Power Receptacle - 110V AC X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU	6807	DC To AC Inverter Control	I	—
	0.5	D-BU/	6807	DC To AC Inverter Control	I	—
2	—	—	—	Not Occupied	—	—
3	1	BK	5683	120 V AC Phase A	I	—

cardiagn.com

X81 Accessory Power Receptacle - 110V AC X2



2236412

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13648774
Service Connector: 19367740
Description: 3-Way F 1.6 Timer Series, Sealed (GY)

Terminal Part Information

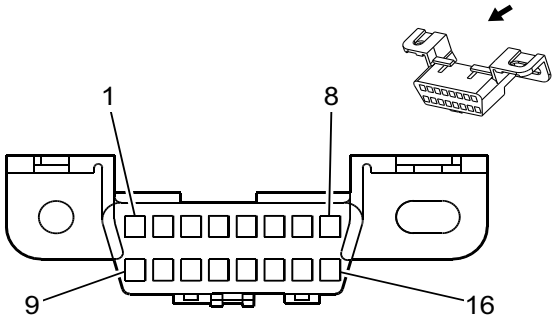
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X81 Accessory Power Receptacle - 110V AC X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-GN	2266	DC To AC Inverter Control 2	I	—
2	—	—	—	Not Occupied	—	—
3	1	WH	5685	120 V AC Neutral	I	—

cardiagn.com

X84 Data Link Connector



68793

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12110250
Service Connector: 12110250
Description: 16-Way F 150 Metri-Pack Series (BK)

Terminal Part Information

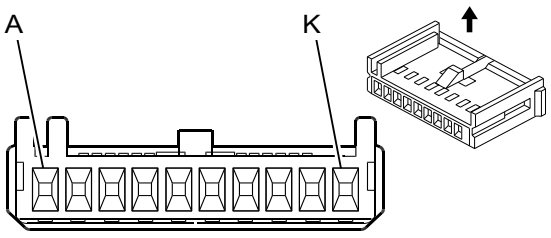
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575724	J-35616-14 (GN)	J-38125-12A	12129484	Delphi 19	E	C
II	13580059	J-35616-14 (GN)	J-38125-12A	12129484	Delphi 19	E	A
III	13580059	J-35616-14 (GN)	J-38125-12A	12129484	Delphi 19	E	C

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	III	—
5	0.5	BK/WH	351	Signal Ground	III	—
6	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	III	—
7 - 13	—	—	—	Not Occupied	—	—
14	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	III	—
15	—	—	—	Not Occupied	—	—
16	0.8	RD/WH	640	Battery Positive Voltage	II	—

cardiagn.com

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

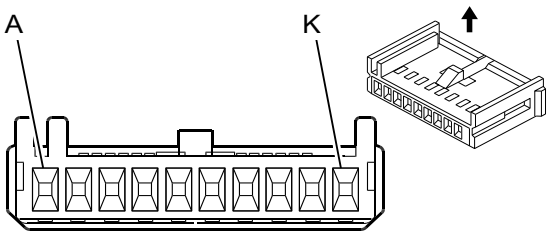
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

X85 Steering Wheel Air Bag Coil X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	BK	350	Ground	I	—
B	—	TN	28	Horn Relay Control	I	—
C	—	—	7158	Cruise Control Indicator Dimming Signal	I	—
D - E	—	—	—	Not Occupied	—	—
F	—	PK	1444	12V Reference	I	—
G	—	BN	6136	Control	I	—
H	—	L-GN	6818	Steering Wheel Resistor Ladder Signal 1	I	—
J	—	—	—	Not Occupied	—	—
K	—	GY	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	—

cardiagn.com

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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

X85 Steering Wheel Air Bag Coil X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	GY	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	—
B	—	—	—	Not Occupied	—	—
C	—	L-GN	6818	Steering Wheel Resistor Ladder Signal 1	I	—
D	—	BN	6136	Control	I	—
E	—	PK	1444	12V Reference	I	—
F - G	—	—	—	Not Occupied	—	—
H	—	GN/WH	7158	Cruise Control Indicator Dimming Signal	I	—
J	—	TN	28	Horn Relay Control	I	—
K	—	BK	350	Ground	I	—

cardiagn.com

X87RB Sliding Door Jamb Contact Plate - Right Body (AU3)

—

Connector Part Information

Harness Type: Sliding Door
OEM Connector: 33148350
Service Connector: Service by Harness - See Part Catalog
Description: —

Terminal Part Information

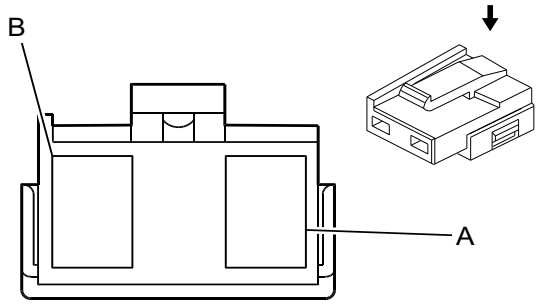
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X87RB Sliding Door Jamb Contact Plate - Right Body (AU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	294	Door Lock Actuator Unlock Control	I	—
B	0.8	GY	295	Door Lock Actuator Lock Control	I	—

cardiagn.com

X87RB Sliding Door Jamb Contact Plate - Right Body (CARGO)



38274

Connector Part Information

Harness Type: Body
OEM Connector: 12034343
Service Connector: 12101821
Description: 2-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

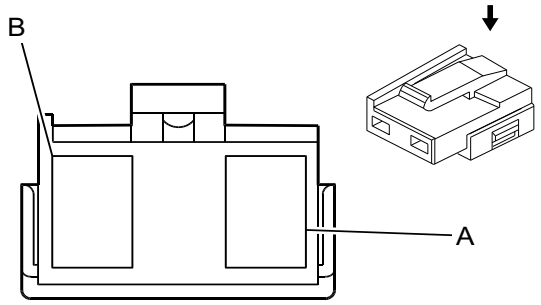
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X87RB Sliding Door Jamb Contact Plate - Right Body (CARGO)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	294	Door Lock Actuator Unlock Control	I	—
B	1	GY	295	Door Lock Actuator Lock Control	I	—

cardiagn.com

X87RB Sliding Door Jamb Contact Plate - Right Body (CUTAWAY)



38274

Connector Part Information

Harness Type: Body
OEM Connector: 12034343
Service Connector: 12101821
Description: 2-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

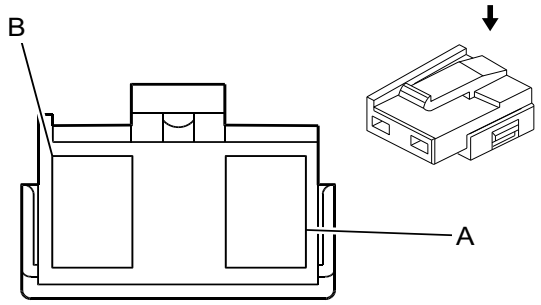
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X87RB Sliding Door Jamb Contact Plate - Right Body (CUTAWAY)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	294	Door Lock Actuator Unlock Control	I	—
B	1	GY	295	Door Lock Actuator Lock Control	I	—

cardiagn.com

X87RB Sliding Door Jamb Contact Plate - Right Body (PASSENGER)



38274

Connector Part Information

Harness Type: Body
OEM Connector: 12034343
Service Connector: 12101821
Description: 2-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

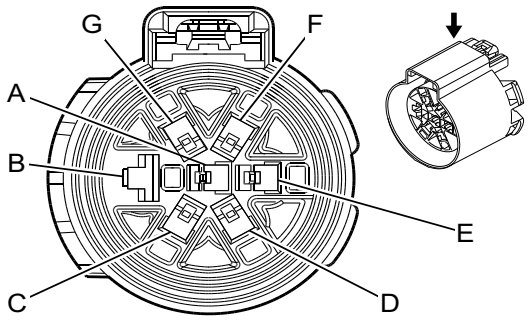
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X87RB Sliding Door Jamb Contact Plate - Right Body (PASSENGER)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	294	Door Lock Actuator Unlock Control	I	—
B	1	GY	295	Door Lock Actuator Lock Control	I	—

cardiagn.com

X88 Trailer Connector (LWN)



2056936

Connector Part Information

Harness Type: Chassis
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

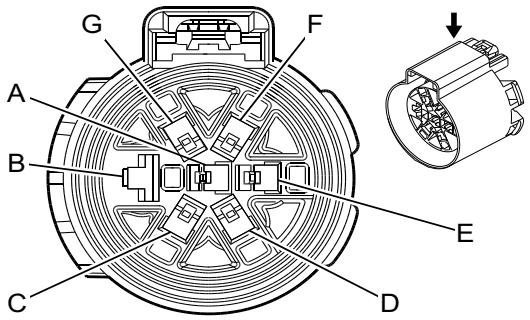
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X88 Trailer Connector (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	L-GN	1624	Trailer Backup Lamp Control	II	—
B	8	WH	22	Trailer Ground	I	—
C	3	D-BU/	47	Trailer Auxiliary Control	II	—
D	1	D-GN	1619	Right Rear Trailer Stop/Turn Lamp Control	II	—
E	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	—

cardiagn.com

X88 Trailer Connector (-LWN)



2056936

Connector Part Information

Harness Type: Chassis
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

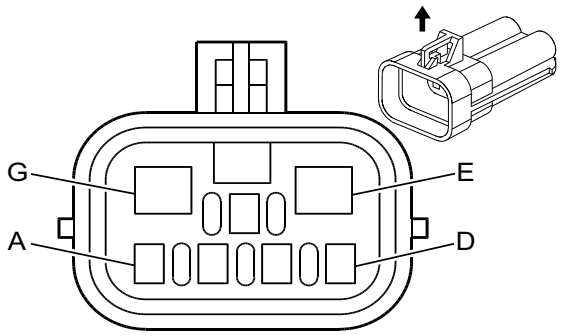
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X88 Trailer Connector (-LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	L-GN	1624	Trailer Backup Lamp Control	II	—
B	8	WH	22	Trailer Ground	I	—
C	3	D-BU/	47	Trailer Auxiliary Control	II	—
D	1	D-GN	1619	Right Rear Trailer Stop/Turn Lamp Control	II	—
E	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	—

cardiagn.com

X88 Trailer Connector (NE7)



1372292

Connector Part Information

Harness Type: Chassis
OEM Connector: 12052200
Service Connector: 19299890
Description: 7-Way M 150, 480 Metri-Pack Series, Sealed (BK)

Terminal Part Information

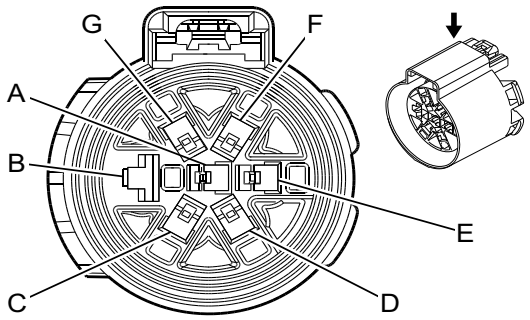
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-41 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X88 Trailer Connector (NE7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	L-GN	1624	Trailer Backup Lamp Control	I	—
B	1	BN	2109	Trailer Park Lamp Control	I	—
C	1	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	I	—
D	—	—	—	Not Occupied	—	—
E	3	D-BU/	47	Trailer Auxiliary Control	II	—
F	1	D-GN	1619	Right Rear Trailer Stop/Turn Lamp Control	I	—
G	3	RD/BK	742	Battery Positive Voltage	II	—

cardiagn.com

X88 Trailer Connector (-NE7)



2056936

Connector Part Information

Harness Type: Chassis
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

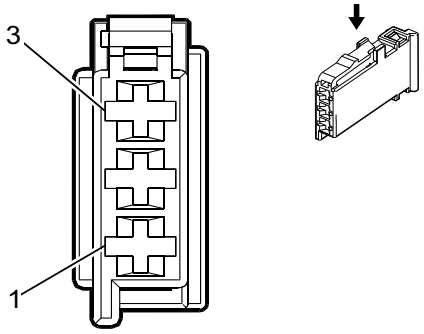
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X88 Trailer Connector (-NE7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	L-GN	1624	Trailer Backup Lamp Control	II	—
B	8	WH	22	Trailer Ground	I	—
C	3	D-BU/	47	Trailer Auxiliary Control	II	—
D	1	D-GN	1619	Right Rear Trailer Stop/Turn Lamp Control	II	—
E	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	—

cardiagn.com

X92 USB Receptacle



2039656

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 10865339
Service Connector: 93186706
Description: 3-Way F 1.6 Micro-Timer Series (BK)

Terminal Part Information

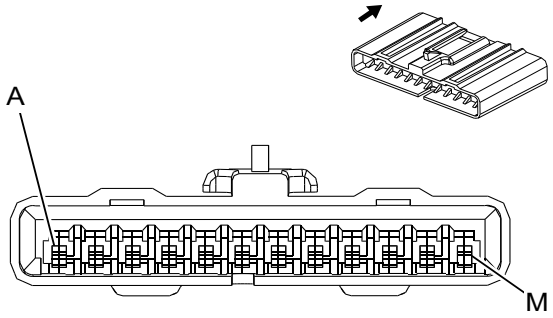
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X92 USB Receptacle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU	6807	DC To AC Inverter Control	I	—
2	—	—	—	Not Occupied	—	—
3	1	BK	5683	120 V AC Phase A	I	—

cardiagn.com

Splice Pack Connector End Views
JX200 Splice Pack



966355

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12176461
Service Connector: -
Description: 12-Way F 150 GT Series (BK)

Terminal Part Information

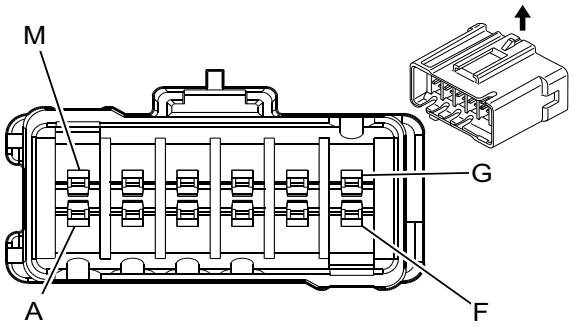
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575479	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
II	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C

JX200 Splice Pack

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	—
B	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	—
C	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	—
D	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	—
E	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	—
F	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	—
G	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	—
H	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	—
J	0.5	L-GN	5060	Low Speed GMLAN Serial Data	II	—
K	0.5	L-GN	5060	Low Speed GMLAN Serial Data	II	—
L	0.5	D-GN	5060	Low Speed GMLAN Serial Data	II	—
M	0.5	D-GN	5060	Low Speed GMLAN Serial Data	II	—

cardiagn.com

JX250 Splice Pack



803605

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15305288
Service Connector: -
Description: 12-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

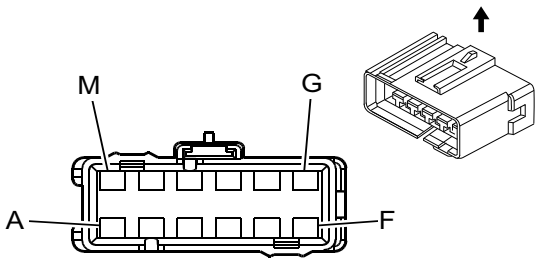
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	Delphi 4	E	A

JX250 Splice Pack

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
B	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
C	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
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	I	—
M	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—

cardiagn.com

JX347 Splice Pack



365987

Connector Part Information

Harness Type: Body
OEM Connector: 12191928
Service Connector: -
Description: 12-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

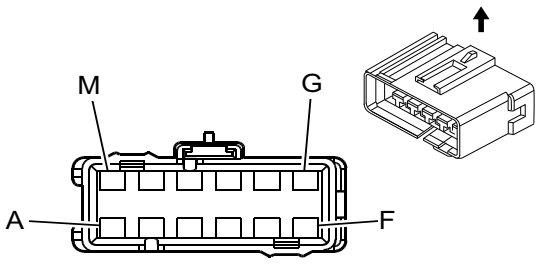
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	Delphi 4	E	4
II	13575721	J-35616-4A (PU)	J-38125-553	12110844	Delphi 4	E	A
III	13579958	J-35616-4A (PU)	J-38125-11A	15324340	Delphi 19	F	G
IV	19330177	J-35616-4A (PU)	J-38125-11A	15324340	Delphi 19	F	G

JX347 Splice Pack

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	450	Ground	I	—
B - C	—	—	—	Not Occupied	—	—
D	5	BK	450	Ground	III	—
E	3	BK	450	Ground	IV	—
F	3	BK	450	Ground	IV	—
G	0.5	BK	450	Ground	II	—
H	5	BK	450	Ground	III	—
J	0.5	BK	450	Ground	II	—
K	0.5	BK	450	Ground	II	—
L	—	—	—	Not Occupied	—	—
M	0.35	BK	450	Ground	I	—

cardiagn.com

JX348 Splice Pack



365987

Connector Part Information

Harness Type: Body
OEM Connector: 12191928
Service Connector: -
Description: 12-Way F 280 Metri-Pack Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	Delphi 4	C	A
II	13575721	J-35616-4A (PU)	J-38125-553	12110844	Delphi 4	E	4
III	13575721	J-35616-4A (PU)	J-38125-553	12110844	Delphi 4	E	A
IV	19330177	J-35616-4A (PU)	J-38125-11A	15324340	Delphi 19	F	G

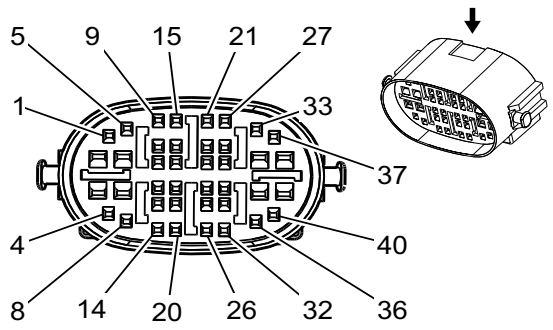
JX348 Splice Pack

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	1850	Ground	II	—
B	0.8	BK	1850	Ground	I	—
C	3	BK	1850	Ground	IV	—
D	0.35	BK	1850	Ground	II	—
E	—	—	—	Not Occupied	—	—
F	0.5	BK	1850	Ground	III	—
G	0.5	BK/WH	2751	Signal Ground	III	—
H	—	—	—	Not Occupied	—	—
J	1	BK	1850	Ground	I	—
K - M	—	—	—	Not Occupied	—	—

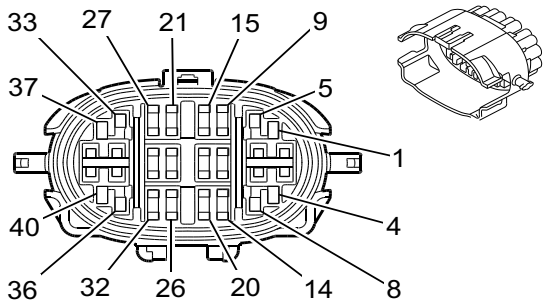
cardiagn.com

Inline Harness Connector End Views

X100 Instrument Panel Harness to Engine Harness



1713502



1713503

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13601803
Service Connector: 19166997
Description: 40-Way F 150, 280 GT Series, Sealed (BK)

Connector Part Information

Harness Type: Engine
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575396	J-35616-14 (GN)	J-38125-553	15326427	Delphi 5	E	A
II	13575412	J-35616-14 (GN)	J-38125-553	12191819	Delphi 8	2	1
III	13575412	J-35616-14 (GN)	J-38125-553	12191819	Delphi 8	E	1
IV	13576356	J-35616-4A (PU)	J-38125-553	15304719	Delphi 19	2	5
V	13576356	J-35616-4A (PU)	J-38125-553	15304719	Delphi 19	E	5
VI	13576360	J-35616-14 (GN)	J-38125-553	12191819	Delphi 8	E	1
VII	13579782	J-35616-4A (PU)	J-38125-553	15304720	Delphi 19	4	5
VIII	13575443	J-35616-5 (PU)	J-38125-553	15304732	Delphi 8	A	5
IX	13576364	J-35616-3 (GY)	J-38125-553	15326269	Delphi 19	E	1
X	13576364	J-35616-3 (GY)	J-38125-553	15326269	Delphi 19	E	4
XI	13580826	J-35616-5 (PU)	J-38125-553	15304731	Delphi 19	C	5
XII	13580826	J-35616-5 (PU)	J-38125-553	15304731	Delphi 19	E	5
XIII	19368625	J-35616-3 (GY)	J-38125-12A	Not Available	Not Avail-able	Not Avail-able	Not Avail-able

cardiagn.com

X100 Instrument Panel Harness to Engine Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	WH/ D-BU	6311	VI	—	Cruise/ETC/ TCC Brake Signal	1	0.5 0.5	L-BU/ WH WH/ BU	6311 6311	X X	LWN LV1
2	0.8	OG	52	IV	—	High Blower Motor Control	2	0.8	OG	52	XI	—
3	0.8	L-BU/	72	IV	—	Medium 2 Blower Motor Control	3	2	L-BU/	72	VIII	—
4	0.8 0.5	OG OG	1732 1732	II III	PRP -PRP	Electronic Control Unit 12V Reference 3 Electronic Control Unit 12V Reference 3	4	0.5	OG	1732	X	—
5	—	—	—	—	—	Not Occupied	5	—	—	—	—	—
6	0.8	TN	63	IV	—	Medium Blower Motor Control 1	6	0.8	TN	63	XI	—
7	2	BK	1250	VII	—	Ground	7	2	BK	1250	VIII	—
8	0.8	YE	60	II	—	Low Blower Motor Control	8	0.8	YE	60	IX	—
9	0.5	L-GN/ BN	507	III	—	Wait To Start Indicator Control	9	0.5	L-GN/ BN	507	X	—
10 - 11	—	—	—	—	—	Not Occupied	10 - 11	—	—	—	—	—
12	0.5	L-GN	1478	III	—	Coolant Level Switch Signal	12	0.5	L-GN	1478	X	—
13	0.5	BK/ WH	351	III	—	Signal Ground	13	0.5	BK/ WH	351	X	—
14	0.5	L-GN	66	III	—	A/C Request Signal	14	0.5	L-GN	66	X	—
15	0.5	WH/ D-BU	5986	III	—	Serial Data Communication Enable	15	0.5	WH/ D-BU	5986	X	JL4
16	0.5	L-GN	66	III	—	A/C Request Signal	16	0.5	L-GN/ WH	66	X	—
17	0.75	L-GN/ GY	333	II	—	Brake Fluid Level Sensor Signal	17	0.75	L-GN/ GY	333	X	—
18	0.5	BN/ WH	419	III	—	Check Engine Indicator Control	18	0.5	BN/ WH	419	X	—
19	0.5	D- BU/	5985	III	—	Accessory Wakeup Serial Data	19	0.5	D- BU/	5985	X	—
20	—	—	—	—	—	Not Occupied	20	—	—	—	—	—

cardiagn.com

X100 Instrument Panel Harness to Engine Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
21	0.35	BK/D-BU	1271	I	—	Accelerator Pedal Position Low Reference 1	21	0.5 0.5	BK/D-BU BN	1271 1271	XIII XIII	LV1 LWN
22	0.35	WH/RD	1164	I	—	Accelerator Pedal Position 5V Reference 1	22	0.5 0.5	WH/BK WH/RD	1164 1164	XIII XIII	LWN LV1
23	0.35	BN/RD	1274	I	—	Accelerator Pedal Position 5V Reference 2	23	0.5 0.5	TN BN/RD	1274 1274	XIII XIII	LWN LV1
24	0.5	BK/WH	451	III	—	Signal Ground	24	0.75	BK/WH	451	X	—
25	0.5	WH	5075	III	—	Current Sensor Signal	25	0.5	WH	5075	X	—
26	0.5	BN	5077	III	—	Current Sensor Low Reference	26	0.5	BN	5077	X	—
27	0.35	YE/WH	1161	I	—	Accelerator Pedal Position Signal 1	27	0.5 0.5	YE/WH D-BU/	1161 1161	XIII XIII	LV1 LWN
28	0.35	BK/VT	1272	I	—	Accelerator Pedal Position Low Reference 2	28	0.5 0.5	PU/BK/VT	1272 1272	XIII XIII	LWN LV1
29	0.35	L-GN/WH	1162	I	—	Accelerator Pedal Position Signal 2	29	0.5 0.5	L-BU/L-GN/WH	1162 1162	XIII XIII	LWN LV1
30	0.5	PK	5076	III	—	Current Sensor Control	30	0.5	PK	5076	X	—
31 - 32	—	—	—	—	—	Not Occupied	31 - 32	—	—	—	—	—
33	0.5	BU	2500	III	—	High Speed GMLAN Serial Data (+) 1	33	0.5	BU	2500	X	—
34	0.5	BK/YE	407	V	LV1/LWN	Sensor Low Reference	34	0.5	BK/YE	407	XII	LV1/LWN
35	0.5	L-GN/BK	735	V	LV1/LWN	Outside Ambient Air Temperature Sensor Signal	35	0.5	L-GN/BK	735	XII	LV1/LWN
36	0.5	BU	2500	III	—	High Speed GMLAN Serial Data (+) 1	36	0.5	BU	2500	X	—
37	0.5	WH	2501	III	—	High Speed GMLAN Serial Data (-) 1	37	0.5	WH	2501	X	—
38 - 39	—	—	—	—	—	Not Occupied	38 - 39	—	—	—	—	—

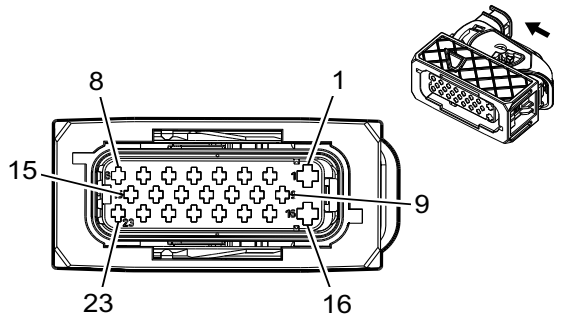
cardiagn.com

X100 Instrument Panel Harness to Engine Harness (cont'd)

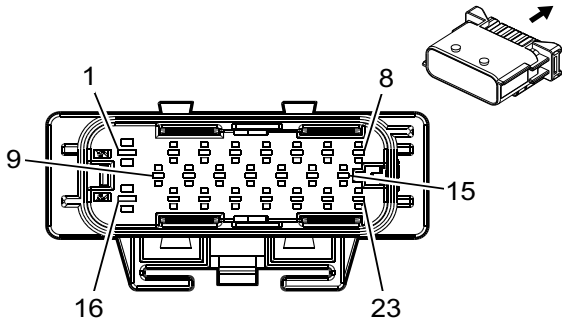
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
40	0.5	WH	2501	III	—	High Speed GMLAN Serial Data (-) 1	40	0.5	WH	2501	X	—

cardiagn.com

X101 Engine Harness to Chassis Harness



2906942



2906943

Connector Part Information

Harness Type: Engine
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
OEM Connector: 13674783
Service Connector: 19303858
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13576369	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
II	13580830	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
III	Not Available	No Tool Required	J-38125-215A	Not Available	Not Available	Not Available	Not Available
IV	13575380	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
V	Not Available	No Tool Required	J-38125-215A	Not Available	Not Available	Not Available	Not Available

X101 Engine Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.5 0.5 0.5	TN/BK BU BU	2500 2500 2500	I I I	L20/L96 LV1+M5U M5U +LWN	High Speed GMLAN Serial Data (+) 1 High Speed GMLAN Serial Data (+) 1 High Speed GMLAN Serial Data (+) 1	2	0.5	BU	2500	IV	—

cardiagn.com

X101 Engine Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
3	0.5 0.5	TN WH	2501 2501	I I	L20/L96 LV1+M5U	High Speed GMLAN Serial Data (-) 1 High Speed GMLAN Serial Data (-) 1	3	0.5	WH	2501	IV	—
4	0.5	YE	2375	I	—	Left Rear Corner Object Sensor Signal	4	0.5	YE	2375	IV	—
5	0.5	YE/D-BU	2376	I	—	Left Rear Middle Object Sensor Signal	5	0.5	YE/D-BU	2376	IV	—
6	0.5	D-GN/WH	817	I	—	Vehicle Speed Signal	6	0.5	D-GN/WH	817	IV	—
7	0.5	BK/GY	2379	I	—	Object Sensor Low Reference	7	0.5	BK/GY	2379	IV	—
8	0.5 0.5	D-GN/WH L-GN/GY	465 465	I I	L96/LC8 LV1	Fuel Pump Primary Relay Control Fuel Pump Primary Relay Control	8	0.5	L-GN/GY	465	IV	LV1/L96/LC8-LWN
9	0.5 0.5	PU/BU/VT	1589 1589	I I	LC8/L96 LV1	Primary Fuel Level Sensor Signal Primary Fuel Level Sensor Signal	9	0.5	BU/VT	1589	IV	LV1/L96/LC8-LWN
10	0.5	YE/WH	2377	I	—	Right Rear Middle Object Sensor Signal	10	0.5	YE/WH	2377	IV	—
11	—	WH/BK	1579	III	—	Fuel Temperature/ Composition Signal	11	—	WH	1579	V	—
12	0.5	WH	1310	I	—	EVAP Canister Vent Solenoid Control	12	0.5	WH	1310	IV	—
13	—	BK/WH	1551	III	—	Signal Ground	13	—	BK/WH	1551	V	—
14	0.5	BN/WH	2374	I	—	Object Sensor Control	14	0.5	BN/WH	2374	IV	—
15	0.5	YE/VT	2378	I	—	Right Rear Corner Object Sensor Signal	15	0.5	YE/VT	2378	IV	—

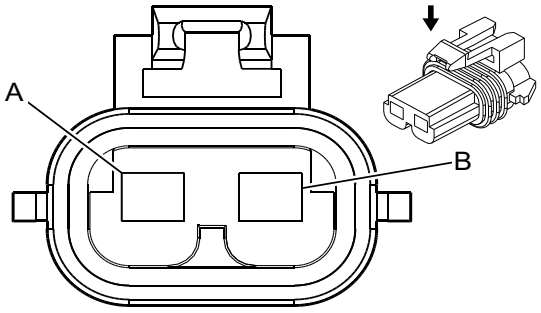
cardiagn.com

X101 Engine Harness to Chassis Harness (cont'd)

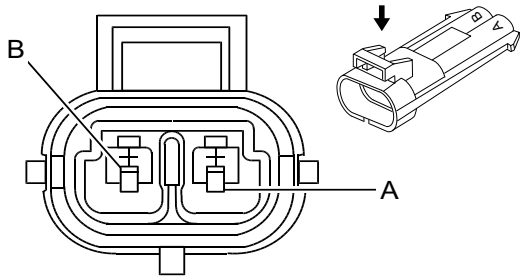
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
16	0.5	D-BU	5985	II	-LWN	Accessory Wakeup Serial Data	16	—	—	—	—	—
17	0.5 0.5	TN BK/ BN	2759 2759	I I	LC8/L96 LV1	Fuel Tank Pressure Sensor Low Reference Fuel Tank Pressure Sensor Low Reference	17	0.5	BK/ BN	2759	IV	LV1/L96/ LC8-LWN
18	0.5 0.5	GY YE/ RD	2709 2709	I I	L96/LC8 LV1	Fuel Tank Pressure Sensor 5V Reference Fuel Tank Pressure Sensor 5V Reference	18	0.5	YE/ RD	2709	IV	LV1/L96/ LC8-LWN
19	—	—	—	—	—	Not Occupied	19	—	—	—	—	—
20	0.5	WH/ D-BU	5986	I	—	Serial Data Communication Enable	20	0.5	WH/ D-BU	5986	IV	—
21	0.5 0.5	D-GN/ BU/ WH	890 890	I I	L96/LC8 LV1	Fuel Tank Pressure Sensor Signal Fuel Tank Pressure Sensor Signal	21	0.5	BU/ WH	890	IV	LV1/L96/ LC8-LWN
22	0.5	BU	2500	I	—	High Speed GMLAN Serial Data (+) 1	22	0.5	BU	2500	IV	—
23	0.5	WH	2501	I	—	High Speed GMLAN Serial Data (-) 1	23	0.5	WH	2501	IV	—

cardiagn.com

X104 Instrument Panel Harness to Front Impact Sensor Jumper Harness



684799



879383

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12077900
Service Connector: 12116247
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

Connector Part Information

Harness Type: Inflatable Restraint
OEM Connector: 15317807
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 280 Metri-Pack Series (BK)

Terminal Part Information

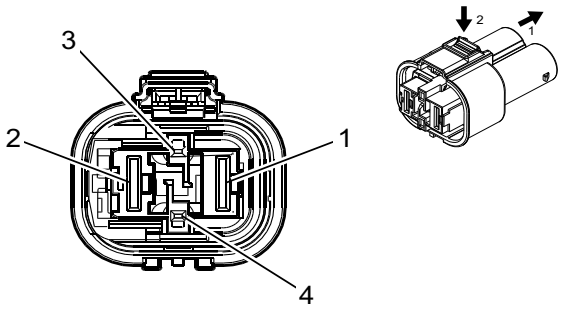
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X104 Instrument Panel Harness to Front Impact Sensor Jumper Harness

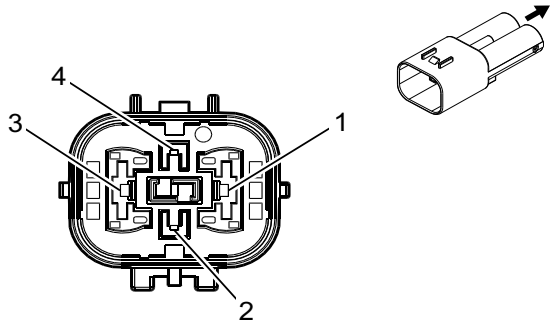
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	D-BU/WH	6619	I	—	Middle Front Discriminating Sensor Low Reference	A	0.5	D-BU/WH	6619	II	—
B	0.5	BN/WH	6618	I	—	Middle Front Discriminating Sensor Signal	B	0.5	BN/WH	6618	II	—

cardiagn.com

X108 Positive Battery Cable Harness to Engine Harness



4847569



4694999

Connector Part Information

Harness Type: Positive Battery Cable
OEM Connector: 33389553
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.2, 9.5 MCON Series (BK)

Connector Part Information

Harness Type: Engine
OEM Connector: 33379229
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way M 1.2, 9.5 MCON Series (BK)

Terminal Part Information

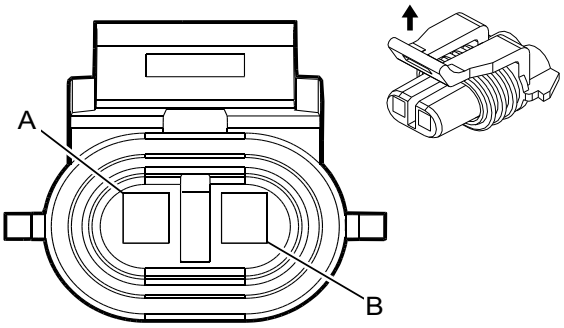
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-22 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-21 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X108 Positive Battery Cable Harness to Engine Harness

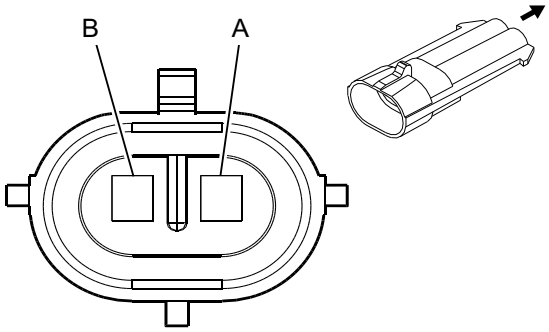
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	10	RD/YE	2	I	—	Battery Positive Voltage	1	6	RD/YE	2	II	—
2	10	RD/YE	2	I	—	Battery Positive Voltage	2	10	RD/BK	2	II	—
3 - 4	—	—	—	—	—	Not Occupied	3 - 4	—	—	—	—	—

cardiagn.com

X109 Engine Harness to Underhood Lamp Harness



635009



333041

Connector Part Information

Harness Type: Engine
OEM Connector: 12052641
Service Connector: 13586114
Description: 2-Way F 150 Metri-Pack Series (BK)

Connector Part Information

Harness Type: Underhood Lamp
OEM Connector: 12162000
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

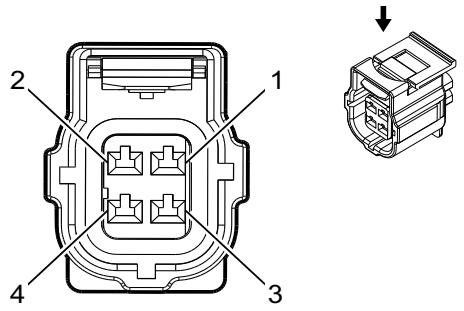
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X109 Engine Harness to Underhood Lamp Harness

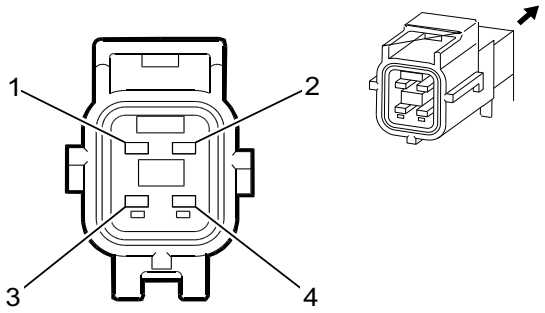
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	OG	1732	I	—	Electronic Control Unit 12V Reference 3	A	0.5	OG	1732	II	—
B	0.8	BK	1250	I	—	Ground	B	0.5	BK	1250	II	—

cardiagn.com

X111 Engine Harness to Glow Plug Jumper Harness



2716365



1243485

Connector Part Information

Harness Type: Engine
OEM Connector: 33225173
Service Connector: 13513071
Description: 4-Way F SSC Series (BK)

Connector Part Information

Harness Type: Glow Plug Jumper
OEM Connector: 184346-1
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way M Sealed Sensor Connector System (BK)

Terminal Part Information

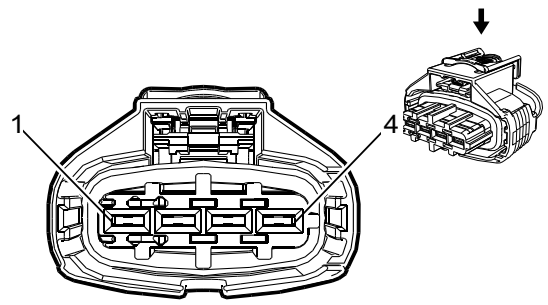
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-34 (YE)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X111 Engine Harness to Glow Plug Jumper Harness

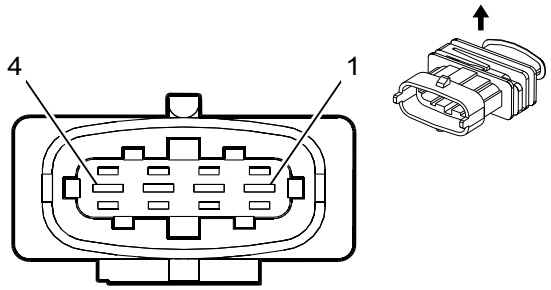
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2	GY/ D-BU	1581	I	—	Glow Plug Control 1	1	2.5	GY/ D-BU	1581	II	—
2	2	GY/ BN	1582	I	—	Glow Plug Control 2	2	2.5	GY/ BN	1582	II	—
3	2	GY/L-GN	1583	I	—	Glow Plug Control 3	3	2.5	GY/L-GN	1583	II	—
4	2	GY/ YE	1584	I	—	Glow Plug Control 4	4	2.5	GY/ YE	1584	II	—

cardiagn.com

X112 Engine Harness to Fuel Rail Jumper Harness



2487930



816173

Connector Part Information

Harness Type: Engine
OEM Connector: 13931683
Service Connector: 13584423
Description: 4-Way F 2.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Fuel Rail Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way M

Terminal Part Information

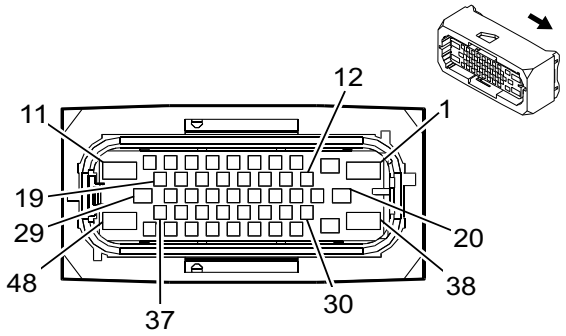
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

X112 Engine Harness to Fuel Rail Jumper Harness

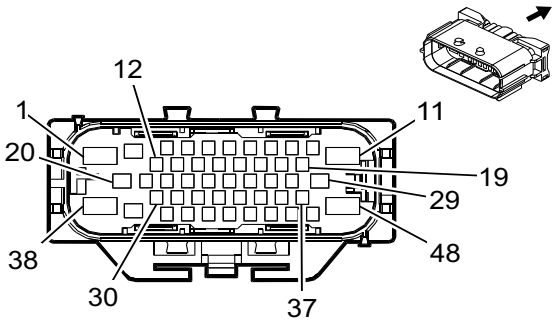
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	BK/L-GN	469	I	—	Manifold Absolute Pressure Sensor Low Reference	1	0.5	BK/L-GN	469	II	—
2	0.5	BN	9348	I	—	Induction Air Temperature Sensor 3 Signal	2	0.5	BN	9348	II	—
3	0.5	GY/RD	2704	I	—	Manifold Absolute Pressure Sensor 5V Reference	3	0.5	GY/RD	2704	II	—
4	0.5	L-GN/WH	432	I	—	Manifold Absolute Pressure Sensor Signal	4	0.5	L-GN/WH	432	II	—

cardiagn.com

X116 Engine Harness to Chassis Harness



3931602



3924401

Connector Part Information

Harness Type: Engine

OEM Connector: 15509585

Service Connector: 19329744

Description: 48-Way F 1.5 MCP, 2.8 JPT, 6.3 MCP Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis

OEM Connector: 15513438

Service Connector: 19356277

Description: 48-Way M 1.6, 2.8, 5.8 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13580829	J-35616-4A (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13580830	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
III	13580830	J-35616-4A (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IV	19301757	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	A	B
V	19301775	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	C	A
VI	19301776	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VII	19329757	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VIII	13575380	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IX	13578827	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
X	13580827	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XI	19329756	J-35616-32 (OR)	J-38125-36	Not Available	Not Available	Not Available	Not Available

X116 Engine Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	2.5	D-BU	3921	I	—	DEF Heater Supply 1	2	2.5	BU	3921	IX	—

cardiagn.com

X116 Engine Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
3	0.5	L-GN/ D-BU	3889	VI	—	DEF Power Module Relay Control	3	0.5	L-GN/ D-BU	3889	VIII	—
4	0.5	GN	2377	VI	—	Right Rear Middle Object Sensor Signal	4	0.5	YE/ WH	2377	VIII	—
5	0.5	BU	2500	VI	—	High Speed GMLAN Serial Data (+) 1	5	0.5	BU	2500	VIII	—
6	0.5	WH	2501	VI	—	High Speed GMLAN Serial Data (-) 1	6	0.5	WH	2501	VIII	—
7	0.5	WH/ RD	6054	VI	—	Exhaust Pressure Sensor 5V Reference 1	7	0.5	WH/ RD	6054	VIII	—
8	0.5	BK/ YE	6055	VI	—	Exhaust Pressure Sensor Low Reference 1	8	0.5	BK/ YE	6055	VIII	—
9	0.5	BK/L-GN	6281	VII	—	Fuel Level Sensor Low Reference	9	0.5	BK/L-GN	6281	VIII	—
10	0.5	BU/ VT	1589	VII	—	Primary Fuel Level Sensor Signal	10	0.5	BU/ VT	1589	VIII	—
11	1	GY	3672	V	—	NOx Sensor 2 Control	11	1	GY	3672	XI	—
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
13	0.5	BN/ WH	7073	VII	—	Sensor Fuel Temperature 1 Low Reference	13	0.5	BN/ WH	7073	VIII	—
14	0.5	BN/ GY	7072	VII	—	Sensor Fuel Temperature 1 Signal	14	0.5	BN/ GY	7072	VIII	—
15	0.5	BU	2374	VI	—	Object Sensor Control	15	0.5	BN/ WH	2374	VIII	—
16	0.5	YE	2375	VI	—	Left Rear Corner Object Sensor Signal	16	0.5	YE	2375	VIII	—
17	0.5	OG	2376	VI	—	Left Rear Middle Object Sensor Signal	17	0.5	YE/D-BU	2376	VIII	—
18 - 19	—	—	—	—	—	Not Occupied	18 - 19	—	—	—	—	—

cardiagn.com

X116 Engine Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
20	0.5	D-BU	6053	II	—	Exhaust Pressure Sensor Signal 1	20	0.5	D-BU	6053	X	—
21	0.5	BU/ YE	6861	VII	—	Water In Fuel Sensor Signal	21	0.5	BU/ YE	6861	VIII	—
22 - 23	—	—	—	—	—	Not Occupied	22 - 23	—	—	—	—	—
24	0.5	GY/ BN	7065	VI	—	Wheel Speed Sensor Control Right Front	24	0.5	GY/ BN	7065	VIII	—
25	0.5	YE	872	VI	—	Wheel Speed Sensor Signal Right Front	25	0.5	YE	872	VIII	—
26	0.5	VT	2378	VI	—	Right Rear Corner Object Sensor Signal	26	0.5	YE/ VT	2378	VIII	—
27	—	—	—	—	—	Not Occupied	27	—	—	—	—	—
28	0.5	VT/ YE	5985	VI	—	Accessory Wakeup Serial Data	28	0.5	VT/ YE	5985	VIII	—
29	1	BK	150	III	LWN	Ground	29	1	BK	150	X	LWN
30	0.5	D-BU/ GY	3660	VI	—	Exhaust Gas Temperature Sensor 5 Signal	30	0.5	D-BU/ GY	3660	VIII	—
31	0.5	BK/ VT	3661	VI	—	Exhaust Gas Temperature Sensor 5 Low Refer-ence	31	0.5	BK/ VT	3661	VIII	—
32	0.5	D-BU/ BK	7493	VI	—	High Speed GMLAN Serial Data (+)3	32	0.5	D-BU/ BK	7493	VIII	—
33	0.5	WH	7494	VI	—	High Speed GMLAN Serial Data (-)3	33	0.5	WH	7494	VIII	—
34 - 35	—	—	—	—	—	Not Occupied	34 - 35	—	—	—	—	—
36	0.5	L-BU	5986	VI	—	Serial Data Communica-tion Enable	36	0.5	WH/ D-BU	5986	VIII	—
37	0.5	GY	2379	VI	—	Object Sensor Low Reference	37	0.5	BK/ GY	2379	VIII	—
38	—	—	—	—	—	Not Occupied	38	—	—	—	—	—

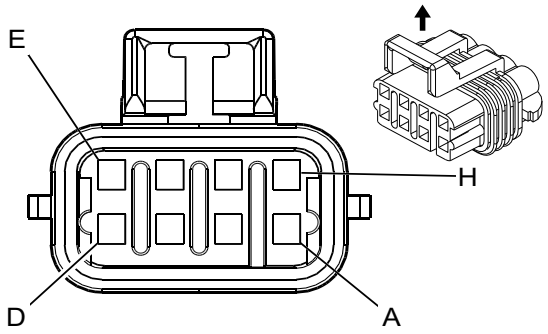
cardiagn.com

X116 Engine Harness to Chassis Harness (cont'd)

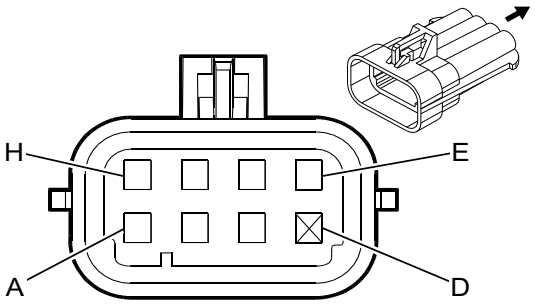
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
39	0.5	BU	2500	II	—	High Speed GMLAN Serial Data (+) 1	39	0.5	BU	2500	X	—
40	0.5	WH	2501	VI	—	High Speed GMLAN Serial Data (-) 1	40	0.5	WH	2501	VIII	—
41	0.5	BK/L-GN	3657	VI	—	Exhaust Gas Temperature Sensor 3 Low Reference	41	0.5	BK/L-GN	3657	VIII	—
42	0.5	GY/L-GN	5378	VI	—	Exhaust Gas Temperature Sensor 3	42	0.5	GY/L-GN	5378	VIII	—
43	0.5	VT/BN	3658	VI	—	Exhaust Gas Temperature Sensor 4 Signal	43	0.5	VT/BN	3658	VIII	—
44	0.5	BK/GY	3659	VI	—	Exhaust Gas Temperature Sensor 4 Low Reference	44	0.5	BK/GY	3659	VIII	—
45	—	—	—	—	—	Not Occupied	45	—	—	—	—	—
46	0.75	BN/D-BU	2926	VI	—	Hydrocarbon Injector High Control	46	0.75	BN/D-BU	2926	VIII	—
47	0.75	VT/BN	2927	VI	—	Hydrocarbon Injector Low Control	47	0.75	VT/BN	2927	VIII	—
48	2.5	VT/L-GN	355	IV	—	Fuel Filter Heater Voltage	48	2.5	VT/L-GN	355	XI	—

cardiagn.com

X126 Engine Harness to Ignition Coil Harness



684790



2582274

Connector Part Information

Harness Type: Engine
OEM Connector: 12047938
Service Connector: 13580883
Description: 8-Way F 150 Metri-Pack Series, Sealed (L-GY)

Connector Part Information

Harness Type: Ignition Coil
OEM Connector: 15496016
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way M 150 Metri-Pack Series (GY)

Terminal Part Information

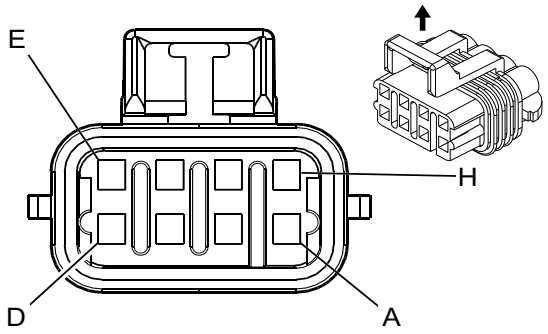
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X126 Engine Harness to Ignition Coil Harness

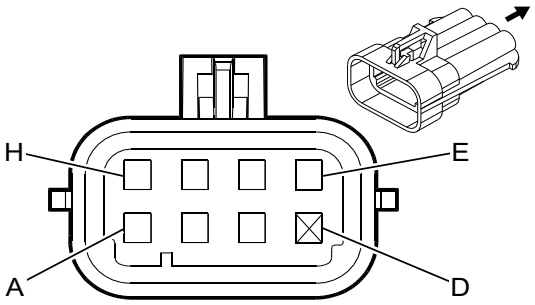
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	1	BK	1250	I	—	Ground	A	0.8	BK	151	II	—
B	0.8	OG	2127	I	—	Ignition Control 7	B	0.5	RD	2127	II	—
C	0.8	D-GN	2125	I	—	Ignition Control 5	C	0.5	D-GN	2125	II	—
D	—	—	—	—	—	Not Occupied	D	—	—	—	—	—
E	0.8	BN	2129	I	—	Ignition Control Low Reference Bank 1	E	0.5	BN	2129	II	—
F	0.8	L-BU	2123	I	—	Ignition Control 3	F	0.5	L-BU	2123	II	—
G	0.8	PU/	2121	I	—	Ignition Control 1	G	0.5	PU/	2121	II	—
H	1	PK	1039	I	—	Run/Crank Ignition 1 Voltage	H	0.8	PK/	1039	II	—

cardiagn.com

X127 Engine Harness to Ignition Coil Harness



684790



2582274

Connector Part Information

Harness Type: Engine
OEM Connector: 12047938
Service Connector: 13580883
Description: 8-Way F 150 Metri-Pack Series, Sealed (L-GY)

Connector Part Information

Harness Type: Ignition Coil
OEM Connector: 15496016
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way M 150 Metri-Pack Series (GY)

Terminal Part Information

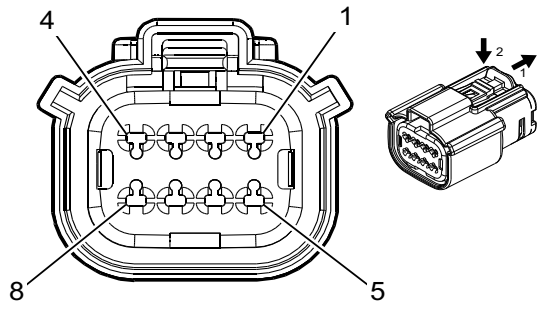
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X127 Engine Harness to Ignition Coil Harness

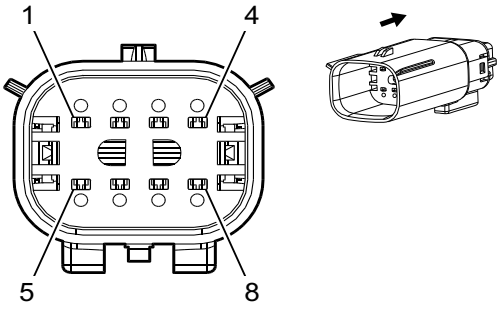
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	1	BK	1250	I	—	Ground	A	0.8	BK	151	II	—
B	0.8	OG/ WH	2122	I	—	Ignition Control 2	B	0.5	OG/ WH	2122	II	—
C	0.8	D-GN/ WH	2124	I	—	Ignition Control 4	C	0.5	D-GN/ WH	2124	II	—
D	—	—	—	—	—	Not Occupied	D	—	—	—	—	—
E	0.8	BN/ WH	2130	I	—	Ignition Control Low Reference Bank 2	E	0.5	BN/ WH	2130	II	—
F	0.8	L-BU/ WH	2126	I	—	Ignition Control 6	F	0.5	L-BU/ WH	2126	II	—
G	0.8	PU/ WH	2128	I	—	Ignition Control 8	G	0.5	PU/ WH	2128	II	—
H	1	PK	1239	I	—	Run/Crank Ignition 1 Voltage	H	0.8	PK/	1239	II	—

cardiagn.com

X130 Engine Harness to Camshaft Position Sensor Jumper Harness



4846407



2667653

Connector Part Information

Harness Type: Engine
OEM Connector: 35063116
Service Connector: 19366859
Description: 8-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Camshaft Position Sensor Jumper
OEM Connector: 13520589
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way M 150 MX Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X130 Engine Harness to Camshaft Position Sensor Jumper 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	—	Camshaft Position Intake Sensor Control 1	1	0.5	GY/ D-BU	5300	II	—
2	0.5	BK/L-GN	5301	I	—	Camshaft Position Intake Sensor Low Reference 1	2	0.5	BK/L-GN	5301	II	—
3	0.5	YE/ VT	5275	I	—	Camshaft Position Intake Sensor 1	3	0.5	YE/ VT	5275	II	—
4	0.5	D-BU/ BK	179	I	—	Oil Pump Command Signal	4	0.5	BU	179	II	—
5	0.5	VT/ BN	5284	I	—	Camshaft Phaser Intake Solenoid 1	5	0.5	VT/ BN	5284	II	—
6	0.5	BK/ BN	6753	I	—	Cam Phaser W Low Reference	6	0.5	BK/ BN	6753	II	—

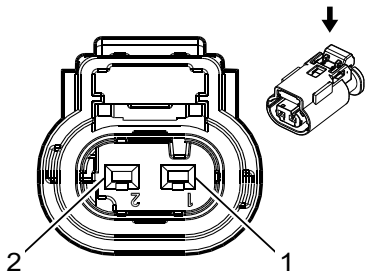
cardiagn.com

X130 Engine Harness to Camshaft Position Sensor Jumper 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	—	Powertrain Main Relay Fused Supply 4	7	0.5	VT/D-BU	5293	II	—
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—

cardiagn.com

X135 Camshaft Position Sensor Jumper Harness to Oil Control Solenoid Valve Jumper Harness



—

2717066

Connector Part Information

Harness Type: Camshaft Position Sensor Jumper
OEM Connector: 13735326
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

Connector Part Information

Harness Type: Oil Control Solenoid Valve
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M

Terminal Part Information

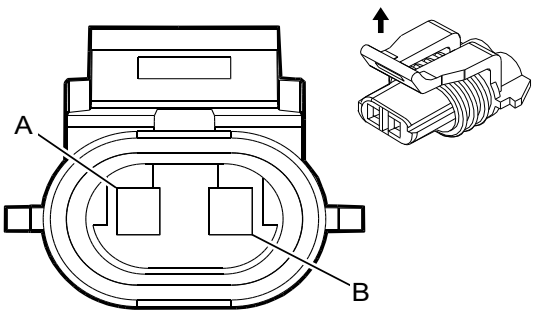
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X135 Camshaft Position Sensor Jumper Harness to Oil Control Solenoid Valve Jumper Harness

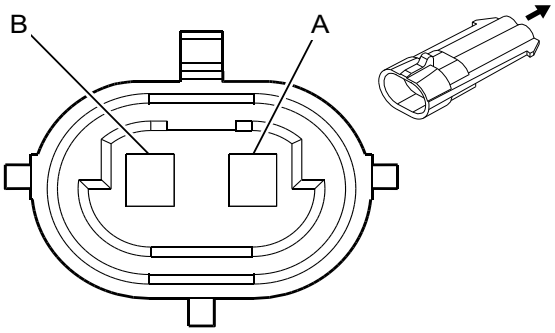
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	VT/D-BU	5293	I	—	Powertrain Main Relay Fused Supply 4	1	0.5	VT/D-BU	5293	II	—
2	0.5	BU	179	I	—	Oil Pump Command Signal	2	0.5	BU	179	II	—

cardiagn.com

X141 Instrument Panel Harness to Brake Fluid Level Jumper Harness



537107



605500

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12052644
Service Connector: 19368034
Description: 2-Way F 150 Metri-Pack Series, Sealed (GY)

Connector Part Information

Harness Type: Brake Fluid Level Switch
OEM Connector: 12162343
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 150 Metri-Pack Series (GY)

Terminal Part Information

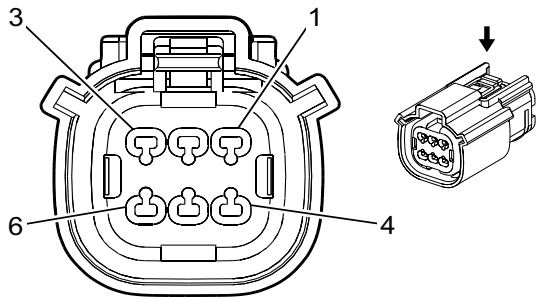
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X141 Instrument Panel Harness to Brake Fluid Level Jumper Harness

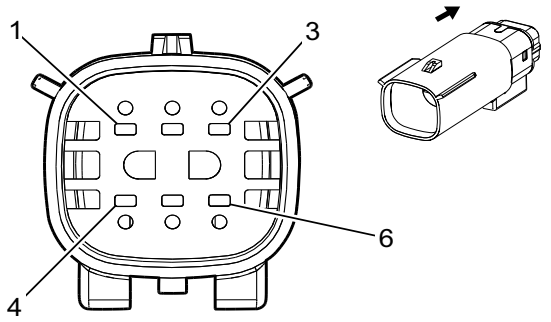
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	TN/WH	33	I	—	Brake Warning Indicator Control	A	0.5	TN/WH	33	II	—
B	0.5	BK/WH	351	I	—	Signal Ground	B	0.5	BK/WH	351	II	—

cardiagn.com

X142 Engine Harness to Cooling Fan Jumper Harness



1986157



1986159

Connector Part Information

Harness Type: Engine
OEM Connector: 13609714
Service Connector: 13578533
Description: 6-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Cooling Fan Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M

Terminal Part Information

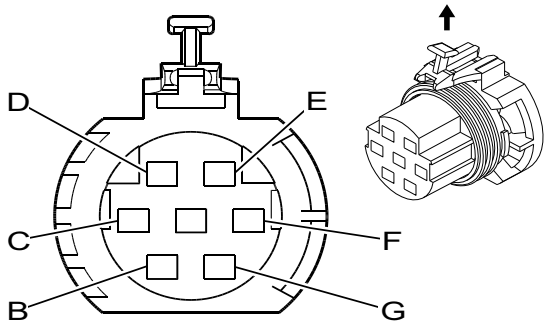
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X142 Engine Harness to Cooling Fan Jumper Harness

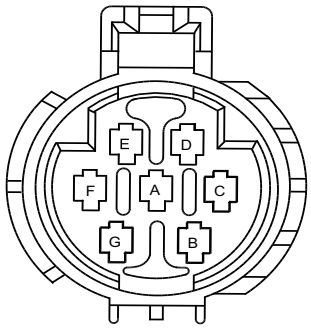
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.5	WH	2368	I	—	Cooling Fan Control Signal	2	0.5	WH	2368	II	—
3	0.5	GY/RD	2365	I	—	Cooling Fan Speed 5V Reference	3	0.5	GY/RD	2365	II	—
4	0.5	BU/VT	2364	I	—	Cooling Fan Speed Signal	4	0.5	BU/VT	2364	II	—
5	0.5	BK/BN	6141	I	—	Cooling Fan Speed Low Reference	5	0.5	BK/BN	6141	II	—
6	0.75	BK	550	I	—	Ground	6	0.75	BK	550	II	—

cardiagn.com

X150 Instrument Panel Harness to Forward Lamp Harness



655687



258231

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12110751
Service Connector: 12110751
Description: 7-Way F 280 Metri-Pack Flexlock Series, Sealed (BK)

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 12110753
Service Connector: 12110753
Description: 7-Way M 280 Metri-Pack Series, Sealed (BK)

Terminal Part Information

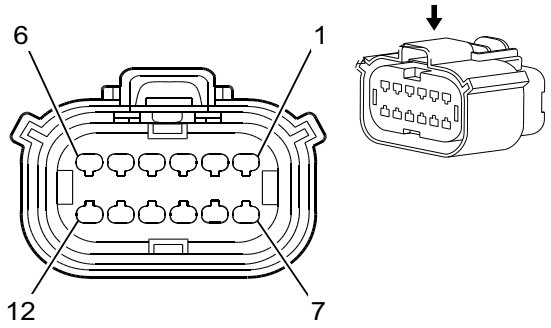
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X150 Instrument Panel Harness to Forward Lamp Harness

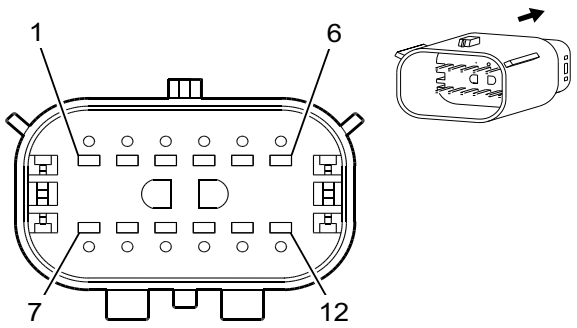
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	PK/ BK	109	I	BTV	Hood Ajar Switch Signal	A	0.5	PK/ BK	109	II	BTV
B	0.5	PU/	5531	I	BTV	Hood Closed Switch Signal	B	0.5	BK/ BN	5531	II	BTV
C	0.5	BU/ GY	636	I	UFA	Outside Ambient Air Temperature Sensor Signal	C	0.5	BU/ GY	636	II	UFA
D	0.5	BK/D-BU	61	I	UFA	Outside Ambient Temperature Sensor Low Reference	D	0.5	BK/D-BU	61	II	UFA
E	0.5	BK/ YE	407	I	—	Sensor Low Reference	E	0.5	BK/ YE	407	II	—
F	0.5	L-GN/ BK	735	I	—	Outside Ambient Air Temperature Sensor Signal	F	0.5	L-GN/ BK	735	II	—
G	—	—	—	—	—	Not Occupied	G	—	—	—	—	—

cardiagn.com

X160 Engine Harness to Fuel Injector Jumper Harness



1825165



1825167

Connector Part Information

Harness Type: Engine
OEM Connector: 13609715
Service Connector: 19178148
Description: 12-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Fuel Injector Jumper
OEM Connector: 33482-6216
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way M 150 MX Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13578813	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
II	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

X160 Engine Harness to Fuel Injector Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.75	BN/WH	4901	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	2	0.75	BN/WH	4901	II	—
3	0.75	L-GN/GY	4903	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	3	0.75	L-GN/GY	4903	II	—
4	0.75	L-GN/WH	4905	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	4	0.75	L-GN/WH	4905	II	—
5	0.75	BN	4801	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	5	0.75	BN	4801	II	—
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

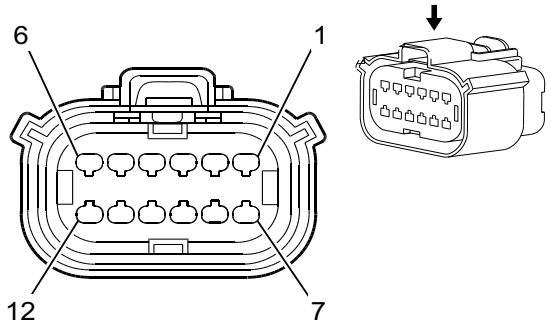
cardiagn.com

X160 Engine Harness to Fuel Injector Jumper Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.75	L-GN	4803	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	8	0.75	L-GN	4803	II	—
9	0.75	WH/ L-GN	4805	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	9	0.75	WH/ L-GN	4805	II	—
10	0.5	BN/ RD	2917	I	—	Fuel Rail Pressure Sensor 5V Reference	10	0.5	BN/ RD	2917	II	—
11	0.5	D-BU/ WH	2918	I	—	Fuel Rail Pressure Sensor Signal	11	0.5	BU/ WH	2918	II	—
12	0.5	BK/L-GN	2919	I	—	Fuel Rail Pressure Sensor Low Reference	12	0.5	BK/L-GN	2919	II	—

cardiagn.com

X161 Engine Harness to Fuel Injector Jumper Harness



1825165

—

Connector Part Information

Harness Type: Engine
OEM Connector: 13863397
Service Connector: 19329931
Description: 12-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Fuel Injector Jumper
OEM Connector: 33482-6221
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way M

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13578813	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
II	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

X161 Engine Harness to Fuel Injector Jumper Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.75	D-BU/GY	4902	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	2	0.75	BU/GY	4902	II	—
3	0.75	BU/WH	4904	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	3	0.75	D-BU/WH	4904	II	—
4	0.75	VT/GY	4906	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	4	0.75	VT/GY	4906	II	—
5	0.75	BU	4802	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	5	0.75	D-BU/	4802	II	—
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

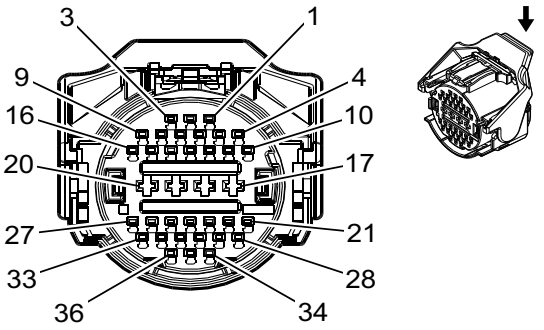
cardiagn.com

X161 Engine Harness to Fuel Injector Jumper Harness (cont'd)

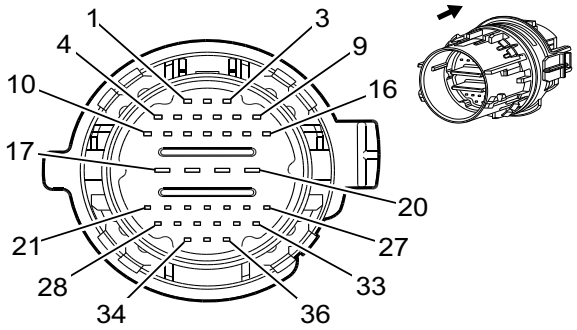
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.75	D-BU/	4804	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	8	0.75	D-BU/	4804	II	—
9	0.75	VT/L-GN	4806	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	9	0.75	VT/L-GN	4806	II	—
10	0.75	VT/BK	7300	I	—	High Pressure Fuel Pump Actuator Low - Control	10	0.75	VT/BK	7300	II	—
11	0.75	YE	7301	I	—	High Pressure Fuel Pump Actuator High - Control	11	0.75	YE	7301	II	—
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

cardiagn.com

X175 Engine Harness to Transmission Jumper Harness (LV1)



3621473



3977661

Connector Part Information

Harness Type: Engine
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: Transmission Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 36-Way M

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19119772	J-35616-35 (VT)	J-38125-557	1241388-1	Lear 17	E	C
II	19300445	J-35616-16 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
III	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X175 Engine Harness to Transmission Jumper Harness (LV1)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	L-GN/WH	6380	II	—	TCC On/Off Solenoid A Control	1	0.5	L-GN/WH	6380	III	—
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
3	0.5	YE	6404	II	—	Clutch E Control	3	0.5	YE	6404	III	—
4	0.5	GY/L-GN	6403	II	—	Clutch D Control	4	0.5	GY/L-GN	6403	III	—
5	0.5	BN	6400	II	—	Clutch A Control	5	0.5	BN	6400	III	—
6	0.5	BU/WH	6401	II	—	Clutch B Control	6	0.5	BU/WH	6401	III	—
7	0.5	YE/BN	6210	II	—	TCC On/Off Solenoid B Control	7	0.5	YE/BN	6210	III	—
8 - 9	—	—	—	—	—	Not Occupied	8 - 9	—	—	—	—	—
10	0.5	GY	6402	II	—	Clutch C Control	10	0.5	GY	6402	III	—

cardiagn.com

X175 Engine Harness to Transmission Jumper Harness (LV1) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
11	0.5	OG/ BK	586	II	—	Transmission Oil Temperature Sensor Low Reference	11	0.5	OG/ BK	586	III	—
12	0.5	BN/ WH	585	II	—	Transmission Oil Temperature Sensor Signal	12	0.5	BN/ WH	585	III	—
13	0.5	WH	4508	II	—	Transmission Clutch G Control	13	0.5	WH	4508	III	—
14	0.5	D-BU/	4507	II	—	Transmission Clutch H Control	14	0.5	BU	4507	III	—
15 - 17	—	—	—	—	—	Not Occupied	15 - 17	—	—	—	—	—
18	0.5	L-GN/ GY	6387	I	—	Transmission High Side Driver 1 Signal Driver	18	0.5	L-GN/ GY	6387	III	—
19	0.75	GY/ BN	6388	I	—	Transmission High Side Driver 2 Signal	19	0.75	GY/ BN	6388	III	—
20	—	—	—	—	—	Not Occupied	20	—	—	—	—	—
21	0.5	WH	5983	II	—	PRNDL C Signal	21	0.5	WH	5983	III	—
22	0.5	VT/D-BU	5981	II	—	PRNDL A Signal	22	0.5	VT/D-BU	5981	III	—
23	0.5	GY/ WH	4168	II	—	PRNDL P Signal	23	0.5	GY/ WH	4168	III	—
24	0.5	GY/ D-BU	6358	II	—	Output Speed Signal	24	0.5	GY/ D-BU	6358	III	—
25	0.5	VT/ WH	4170	II	—	Transmission Position Sensor B 9V Reference	25	0.5	VT/ WH	4170	III	—
26	0.5	L-GN	6353	II	—	Input Speed Signal	26	0.5	L-GN	6353	III	—
27	0.5	VT	4171	II	—	Transmission Position Sensor A 9V Reference	27	0.5	VT	4171	III	—
28	0.5	GY/ BN	5982	II	—	PRNDL B Signal	28	0.5	GY/ BN	5982	III	—
29	0.5	VT	4171	II	—	Transmission Position Sensor A 9V Reference	29	0.5	VT	4171	III	—
30	0.5	WH/ BK	3927	II	—	IMS Mode Switch Low Reference	30	0.5	WH/ BK	3927	III	—
31	0.5	VT/ WH	4170	II	—	Transmission Position Sensor B 9V Reference	31	0.5	VT/ WH	4170	III	—

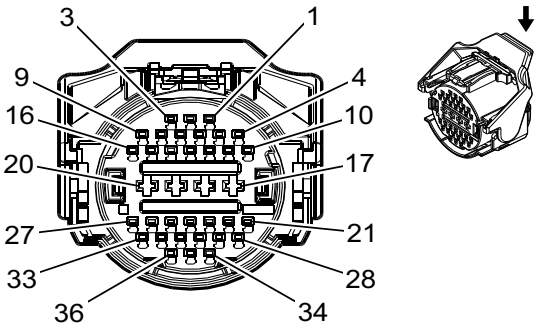
cardiagn.com

X175 Engine Harness to Transmission Jumper Harness (LV1) (cont'd)

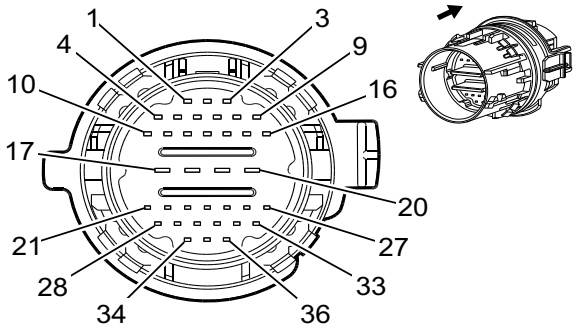
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
32	0.5	L-GN/ VT	4510	II	—	Transmission Intermediate Speed Signal	32	0.5	L-GN/ VT	4510	III	—
33	—	—	—	—	—	Not Occupied	33	—	—	—	—	—
34	0.5	GY/ YE	4169	II	—	PRNDL S Signal	34	0.5	GY/ YE	4169	III	—
35	0.5	WH/ GY	1786	II	—	Transmission Park/Neutral Signal 1	35	0.5	WH/ GY	1786	III	—
36	—	—	—	—	—	Not Occupied	36	—	—	—	—	—

cardiagn.com

X175 Engine Harness to Transmission Jumper Harness (LWN)



3621473



3977661

Connector Part Information

Harness Type: Engine
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: Transmission Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 36-Way M

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19119772	J-35616-35 (VT)	J-38125-557	1241388-1	Lear 17	E	C
II	19300445	J-35616-16 (LT GN)	J-38125-12A	Not Available	Not Avail-able	Not Avail-able	Not Avail-able
III	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X175 Engine Harness to Transmission Jumper Harness (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	L-GN/ WH	6380	II	—	TCC On/Off Solenoid A Control	1	0.5	L-GN/ WH	6380	III	—
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
3	0.5	YE/ BN	6404	II	—	Clutch E Control	3	0.5	YE/ BN	6404	III	—
4	0.5	GY/L-GN	6403	II	—	Clutch D Control	4	0.5	GY/L-GN	6403	III	—
5	0.5	BN	6400	II	—	Clutch A Control	5	0.5	BN	6400	III	—
6	0.5	D-BU/	6401	II	—	Clutch B Control	6	0.5	D-BU/	6401	III	—
7	0.5	YE/ BN	6210	II	—	TCC On/Off Solenoid B Control	7	0.5	YE/ BN	6210	III	—
8 - 9	—	—	—	—	—	Not Occupied	8 - 9	—	—	—	—	—
10	0.5	GY	6402	II	—	Clutch C Control	10	0.5	GY	6402	III	—

cardiagn.com

X175 Engine Harness to Transmission Jumper Harness (LWN) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
11	0.5	BK/ BN	586	II	—	Transmission Oil Temperature Sensor Low Reference	11	0.5	BK/ BN	586	III	—
12	0.5	BN/ WH	585	II	—	Transmission Oil Temperature Sensor Signal	12	0.5	BN/ WH	585	III	—
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 Occupied	15 - 17	—	—	—	—	—
18	0.5	L-GN/ GY	6387	I	—	Transmission High Side Driver 1 Signal Driver	18	0.5	L-GN/ GY	6387	III	—
19	0.75	GY/ BN	6388	I	—	Transmission High Side Driver 2 Signal	19	0.75	GY/ BN	6388	III	—
20	—	—	—	—	—	Not Occupied	20	—	—	—	—	—
21	0.5	WH/ BK	5983	II	—	PRNDL C Signal	21	0.5	WH/ BK	5983	III	—
22	0.5	VT/ WH	5981	II	—	PRNDL A Signal	22	0.5	VT/ WH	5981	III	—
23	0.5	GY/ WH	4168	II	—	PRNDL P Signal	23	0.5	GY/ WH	4168	III	—
24	0.5	GY/ D-BU	6358	II	—	Output Speed Signal	24	0.5	GY/ D-BU	6358	III	—
25	0.5	YE/L-GN	4170	II	—	Transmission Position Sensor B 9V Reference	25	0.5	YE/L-GN	4170	III	—
26	0.5	L-GN/ YE	6353	II	—	Input Speed Signal	26	0.5	L-GN/ YE	6353	III	—
27	0.5	YE/D-BU	4171	II	—	Transmission Position Sensor A 9V Reference	27	0.5	YE/D-BU	4171	III	—
28	0.5	GY/ BN	5982	II	—	PRNDL B Signal	28	0.5	GY/ BN	5982	III	—
29	0.5	YE/D-BU	4171	II	—	Transmission Position Sensor A 9V Reference	29	0.5	YE/D-BU	4171	III	—
30	0.5	BK/ GY	3927	II	—	IMS Mode Switch Low Reference	30	0.5	BK/ GY	3927	III	—
31	0.5	YE/L-GN	4170	II	—	Transmission Position Sensor B 9V Reference	31	0.5	YE/L-GN	4170	III	—

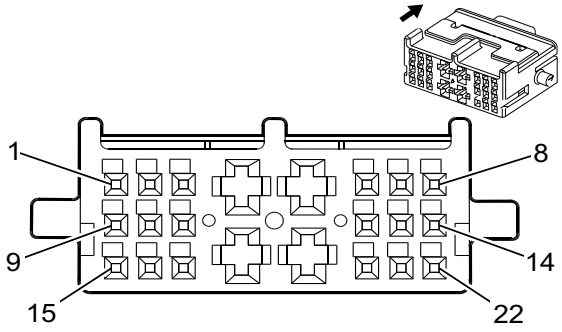
cardiagn.com

X175 Engine Harness to Transmission Jumper Harness (LWN) (cont'd)

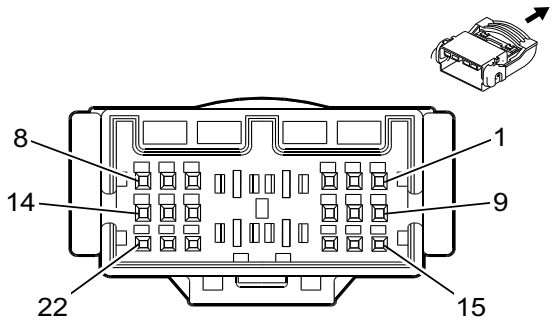
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
32	0.5	L-GN/ VT	4510	II	—	Transmission Intermediate Speed Signal	32	0.5	L-GN/ VT	4510	III	—
33	—	—	—	—	—	Not Occupied	33	—	—	—	—	—
34	0.5	GY/ YE	4169	II	—	PRNDL S Signal	34	0.5	GY/ YE	4169	III	—
35	0.5	WH/ GY	1786	II	—	Transmission Park/Neutral Signal 1	35	0.5	WH/ GY	1786	III	—
36	—	—	—	—	—	Not Occupied	36	—	—	—	—	—

cardiagn.com

X176 Transmission Case Harness to Transmission Control Harness (M5U)



3977748



3977770

Connector Part Information

Harness Type: Transmission Case

OEM Connector: 1897543-1

Service Connector: Service by Harness - See Part Catalog

Description: 22-Way F 0.64 Micro-Quadlock, 2.8 Micro-Power Series (NA)

Connector Part Information

Harness Type: Transmission Control

OEM Connector: 1897540-1

Service Connector: Service by Harness - See Part Catalog

Description: 22-Way M 0.64 Micro-Quadlock, 2.8 Micro-Power Series (NA)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

X176 Transmission Case Harness to Transmission Control Harness (M5U)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	6380	I	—	TCC On/Off Solenoid A Control	1	—	—	6380	II	—
2	—	VT/WH	5981	I	—	PRNDL A Signal	2	—	VT/WH	5981	II	—
3	—	GY/BN	5982	I	—	PRNDL B Signal	3	—	PK/BK	5982	II	—
4	—	—	6387	I	—	Transmission High Side Driver 1 Signal Driver	4	—	—	6387	II	—
5	—	PU	4171	I	—	Transmission Position Sensor A 9V Reference	5	—	VT	4171	II	—
6	—	GY/YE	4169	I	—	PRNDL S Signal	6	—	PK	4169	II	—
7	—	—	4507	I	—	Transmission Clutch H Control	7	—	—	4507	II	—
8	—	—	6403	I	—	Clutch D Control	8	—	—	6403	II	—

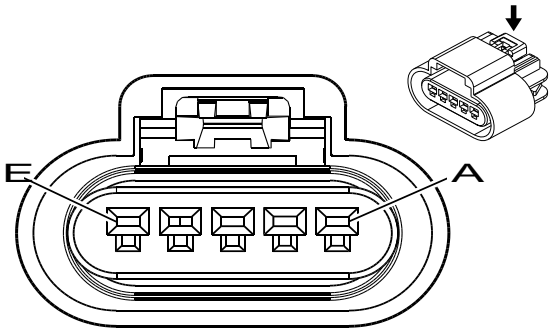
cardiagn.com

X176 Transmission Case Harness to Transmission Control Harness (M5U) (cont'd)

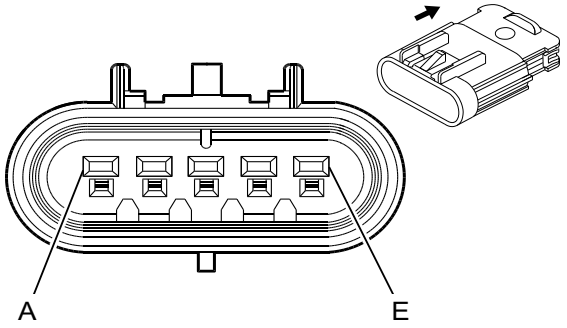
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	—	WH	4508	I	—	Transmission Clutch G Control	9	—	WH	4508	II	—
10	—	YE/BN	6210	I	—	TCC On/Off Solenoid B Control	10	—	YE/BN	6210	II	—
11	—	OG/BK	5983	I	—	PRNDL C Signal	11	—	OG/BK	5983	II	—
12	— —	WH/GY OG/BK	1786 1786	I I	— —	Transmission Park/Neutral Signal 1 Transmission Park/Neutral Signal 1	12	— —	WH/GY OG/BK	1786 1786	II II	— —
13	—	GY	6402	I	—	Clutch C Control	13	—	GY	6402	II	—
14	—	YE/BN	6404	I	—	Clutch E Control	14	—	YE/BN	6404	II	—
15	—	BN/WH	585	I	—	Transmission Oil Temperature Sensor Signal	15	—	BN/WH	585	II	—
16	—	OG/BK	586	I	—	Transmission Oil Temperature Sensor Low Reference	16	—	OG/BK	586	II	—
17	—	GY	4168	I	—	PRNDL P Signal	17	—	GY	4168	II	—
18	—	GY/BN	6388	I	—	Transmission High Side Driver 2 Signal	18	—	GY/BN	6388	II	—
19	—	PU/WH	4170	I	—	Transmission Position Sensor B 9V Reference	19	—	VT/WH	4170	II	—
20	—	WH/BK	3927	I	—	IMS Mode Switch Low Reference	20	—	WH/BK	3927	II	—
21	—	BN	6400	I	—	Clutch A Control	21	—	BN	6400	II	—
22	—	D-BU	6401	I	—	Clutch B Control	22	—	D-BU	6401	II	—

cardiagn.com

X177 Engine Harness to Camshaft Position Sensor Jumper Harness



647974



1334521

Connector Part Information

Harness Type: Engine
OEM Connector: 13519051
Service Connector: 13585858
Description: 5-Way F 150 GT Series, Sealed (BK)

Connector Part Information

Harness Type: Camshaft Position Sensor Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 5-Way M

Terminal Part Information

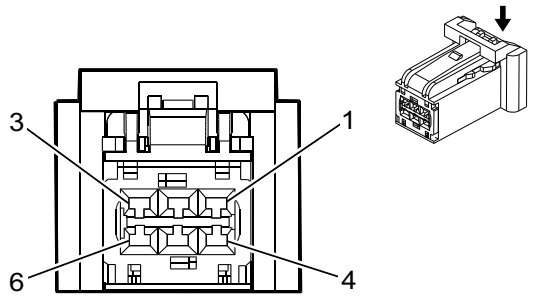
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

X177 Engine Harness to Camshaft Position Sensor Jumper Harness

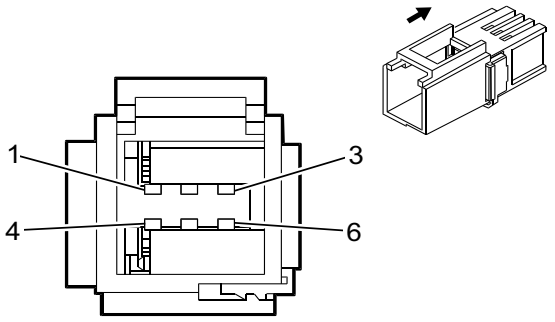
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.8	D-BU/	6259	I	—	Camshaft CAM W Control	A	0.8	D-BU/	6259	II	—
B	0.8	BN	6266	I	—	Camshaft CAM W Ground	B	0.8	BN	6266	II	—
C	0.8	D-BU/WH	6265	I	—	Camshaft CAM W Signal	C	0.8	D-BU/WH	6265	II	—
D	0.8	PU/	5284	I	—	Camshaft Phaser Intake Solenoid 1	D	0.8	PU/	5284	II	—
E	0.8	TN	2199	I	—	Camshaft Phaser Solenoid Low Reference	E	0.8	TN	2199	II	—

cardiagn.com

X178 Transmission Case Harness to Speed Sensor Assembly Harness (M5U)



3977938



3977959

Connector Part Information

Harness Type: Transmission Case
OEM Connector: 13960975
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 1.2 OCS Series (NA)

Connector Part Information

Harness Type: Speed Sensor Assembly
OEM Connector: 13955963
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M 0.64 II Series (GY)

Terminal Part Information

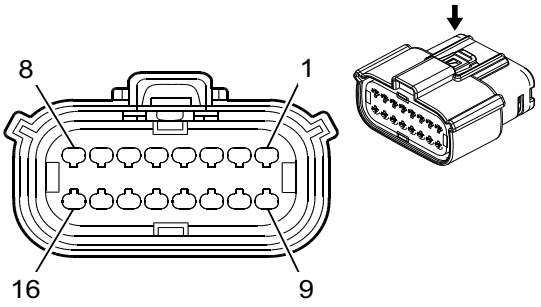
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

X178 Transmission Case Harness to Speed Sensor Assembly Harness (M5U)

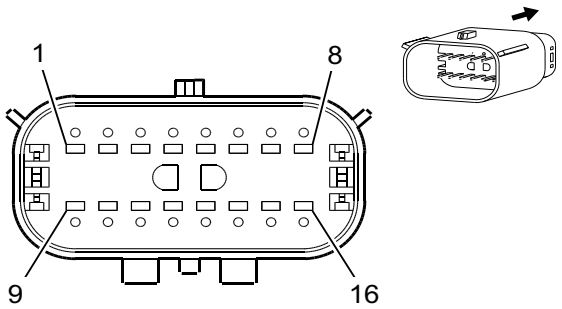
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	6358	I	—	Output Speed Signal	1	—	PK	6358	II	—
2	—	VT/ WH	4170	I	—	Transmission Position Sensor B 9V Reference	2	—	VT/ WH	4170	II	—
3	—	VT/ WH	4170	I	—	Transmission Position Sensor B 9V Reference	3	—	VT/ WH	4170	II	—
4	—	VT	4171	I	—	Transmission Position Sensor A 9V Reference	4	—	VT	4171	II	—
5	—	—	6353	I	—	Input Speed Signal	5	—	D-GN	6353	II	—
6	—	—	4510	I	—	Transmission Intermediate Speed Signal	6	—	—	4510	II	—

cardiagn.com

X185 Instrument Panel Harness to Chassis Harness



2548389



2548390

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13778557
Service Connector: 13584788
Description: 16-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis
OEM Connector: 33372790
Service Connector: 19369662
Description: 16-Way M 150 MX Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300432	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
II	19119395	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

X185 Instrument Panel Harness to Chassis 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	I	—	Battery Positive Voltage	1	0.5	RD/L-GN	3140	II	—
2	0.5	L-GN/	5060	I	—	Low Speed GMLAN Serial Data	2	0.5	L-GN/	5060	II	—
3 - 7	—	—	—	—	—	Not Occupied	3 - 7	—	—	—	—	—
8	0.5	BU/ YE	6105	I	—	High Speed GMLAN Serial Data (+) 2	8	0.5	BU/ YE	6105	II	—
9	0.5	GY/ YE	5853	I	UFT	Driver Side Object Detection LED Signal 1	9	0.5	GY/ YE	5853	II	UFT
10	0.5	GY	5861	I	UFT	Passenger Side Object Detection LED Signal 1	10	0.5	GY	5861	II	UFT
11 - 14	—	—	—	—	—	Not Occupied	11 - 14	—	—	—	—	—

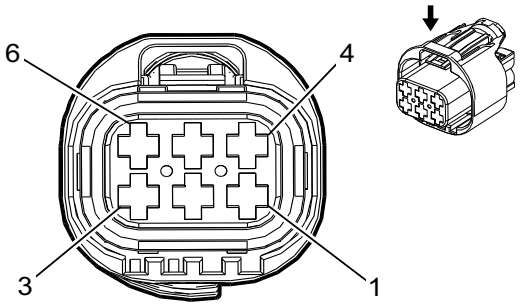
cardiagn.com

X185 Instrument Panel Harness to Chassis Harness (cont'd)

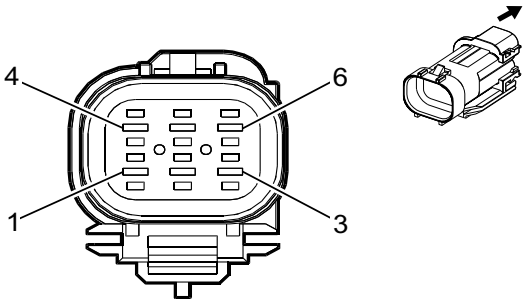
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
15	0.5	L-GN/ BN	2087	I	—	Combined Vehicle Inertial Sensor Supply Voltage	15	0.5	L-GN/ BN	2087	II	—
16	0.5	WH	6106	I	—	High Speed GMLAN Serial Data (-) 2	16	0.5	WH	6106	II	—

cardiagn.com

X190 Accessory Harness to Accessory Power Fuse Block Rear Extension Harness



2042938



2042939

Connector Part Information

Harness Type: Accessory
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 Extension
OEM Connector: 10865189
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M 2.8 Series, Sealed (BK)

Terminal Part Information

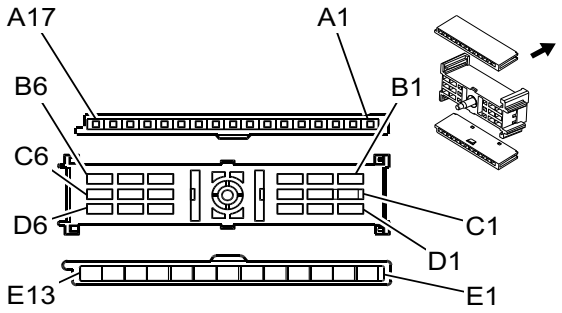
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X190 Accessory Harness to Accessory Power Fuse Block Rear Extension Harness

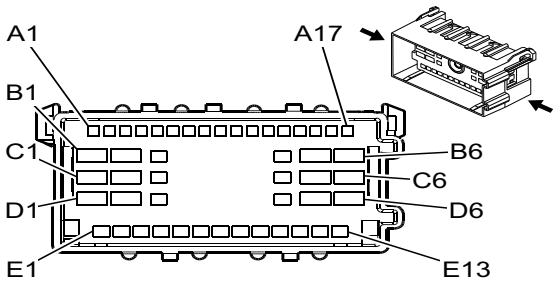
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	L-BU	6842	I	—	Auxiliary Device Relay 1 Control	1	0.5	L-BU/	6842	II	—
2	2.5	L-GN	6839	I	—	Auxiliary Device 1 Switched Voltage	2	2.5	L-GN	6839	II	—
3	0.5	D-BU/	6843	I	—	Auxiliary Device Relay 2 Control	3	0.5	D-BU/	6843	II	—
4	2.5	D-GN	6840	I	—	Auxiliary Device 2 Switched Voltage	4	2.5	D-GN/	6840	II	—
5	1	RD/WH	5440	I	—	Battery Positive Voltage	5	1	RD/WH	5440	II	—
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

cardiagn.com

X200 Steering Column Harness to Instrument Panel Harness



794237



510556

Connector Part Information

Harness Type: Steering Column
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 48-Way F

Connector Part Information

Harness Type: Instrument Panel
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13575462	J-35616-3 (GY)	J-38125-12A	12047581	Delphi 2	E	C
III	13575463	J-35616-3 (GY)	J-38125-12A	12047581	Delphi 2	E	C
IV	13575715	J-35616-5 (PU)	J-38125-11A	12034047	Delphi 2	E	A
V	19330180	J-35616-43 (RD)	J-38125-11A	12020126	Delphi 2	E	A

X200 Steering Column Harness to Instrument Panel 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	III	—
A2	—	—	—	—	—	Not Occupied	A2	—	—	—	—	—
A3	0.35	PK	1444	I	—	12V Refer-ence	A3	0.35	PK	1444	III	—
A4	0.35	PU/	5526	I	—	Tap Up/Tap Down Switch Signal	A4	0.35	PU/	5526	III	—
A5	—	—	—	—	—	Not Occupied	A5	—	—	—	—	—
A6	0.5	L-GN/ BN	2087	I	—	Combined Vehicle Inertial Sensor Supply Voltage	A6	0.5	L-GN/ BN	2087	II	—

cardiagn.com

X200 Steering Column Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A7 - A8	—	—	—	—	—	Not Occupied	A7 - A8	—	—	—	—	—
A9	0.35	PK	3	I	—	Run/Crank Ignition 1 Voltage	A9	0.35	PK	3	III	—
A1-0	—	—	—	—	—	Not Occupied	A1-0	—	—	—	—	—
A1-1	0.35	L-GN	6818	I	—	Steering Wheel Resistor Ladder Signal 1	A11	0.35	L-GN	6818	III	—
A1-2	—	—	—	—	—	Not Occupied	A1-2	—	—	—	—	—
A1-3	0.35	D-GN/WH	7158	I	—	Cruise Control Indicator Dimming Signal	A1-3	0.35	D-GN/WH	7158	III	—
A1-4	—	—	—	—	—	Not Occupied	A1-4	—	—	—	—	—
A1-5	0.35	BN	6136	I	—	Control	A1-5	0.35	BN	6136	III	—
A1-6	—	—	—	—	—	Not Occupied	A1-6	—	—	—	—	—
A1-7	0.35	GY	1884	I	—	Cruise Control Set/ Coast/ Resume/ Accelerate Switch Signal	A1-7	0.35	GY	1884	III	—
B1	0.35	RD/WH	540	I	—	Battery Positive Voltage	B1	0.35	RD/WH	540	V	—
B2	—	—	—	—	—	Not Occupied	B2	—	—	—	—	—
B3	0.35	WH	111	I	—	Hazard Switch Signal	B3	0.35	WH	111	IV	—
B4 - B5	—	—	—	—	—	Not Occupied	B4 - B5	—	—	—	—	—
B6	0.35	PK	1020	I	—	Off/Run/ Crank Ignition Voltage	B6	0.35	PK	1020	V	—
C1	0.35	WH	530	I	—	Off/Run/ Crank Ignition Voltage	C1	0.35	WH	530	V	—
C2	—	—	—	—	—	Not Occupied	C2	—	—	—	—	—
C3	0.35	YE	307	I	—	Headlamp Switch Flash To Pass Signal	C3	0.35	YE	307	IV	—

cardiagn.com

X200 Steering Column Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
C4 - C5	—	—	—	—	—	Not Occupied	C4 - C5	—	—	—	—	—
C6	0.35	BN	4	I	—	Accessory Ignition Voltage	C6	0.35	BN	4	V	—
D1	0.35	TN/ BK	6009	I	—	Windshield Wiper Switch Low Refer-ence	D1	0.35	TN/ BK	6009	V	—
D2	—	—	—	—	—	Not Occupied	D2	—	—	—	—	—
D3	0.35	YE	525	I	—	Headlamp Dimmer Switch Low Beam Signal	D3	0.35	YE	525	IV	—
D4	0.5	TN/ WH	816	I	—	Brake Trans-mission Shift Interlock Solenoid Control	D4	0.5	TN/ WH	816	IV	—
D5	—	—	—	—	—	Not Occupied	D5	—	—	—	—	—
D6	0.35	PK	94	I	—	Windshield Washer Switch Signal	D6	0.35	PK	94	V	—
E1	0.5	BK	350	I	—	Ground	E1	0.5	BK	350	IV	—
E2	—	—	—	—	—	Not Occupied	E2	—	—	—	—	—
E3	0.5	BK/ WH	351	I	—	Signal Ground	E3	0.5	BK/ WH	351	IV	—
E4	0.5	BU/ YE	6105	I	—	High Speed GMLAN Serial Data (+) 2	E4	0.5	BU/ YE	6105	IV	—
E5	0.5	WH	6106	I	—	High Speed GMLAN Serial Data (-) 2	E5	0.5	WH	6106	IV	—
E6	0.5	BU/ YE	6105	I	—	High Speed GMLAN Serial Data (+) 2	E6	0.5	BU/ YE	6105	IV	—
E7	0.5	WH	6106	I	—	High Speed GMLAN Serial Data (-) 2	E7	0.5	WH	6106	IV	—
E8	0.35	D-GN	663	I	—	Hazard Switch Left Turn Signal	E8	0.35	D-GN	663	IV	—
E9	0.35	TN	664	I	—	Hazard Switch Right Turn Signal	E9	0.35	TN	664	IV	—
E1-0	—	—	—	—	—	Not Occupied	E1-0	—	—	—	—	—
E1-1	0.35	L-BU	1714	I	—	Windshield Wiper Switch Low Signal	E11	0.35	L-BU	1714	IV	—

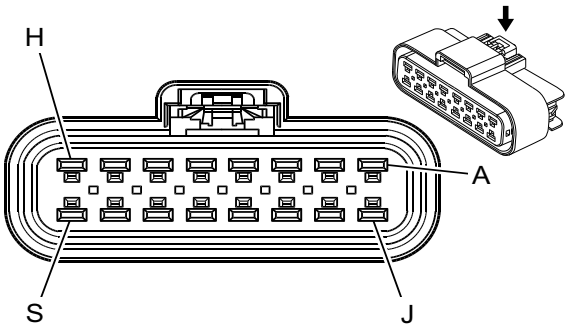
cardiagn.com

X200 Steering Column Harness to Instrument Panel Harness (cont'd)

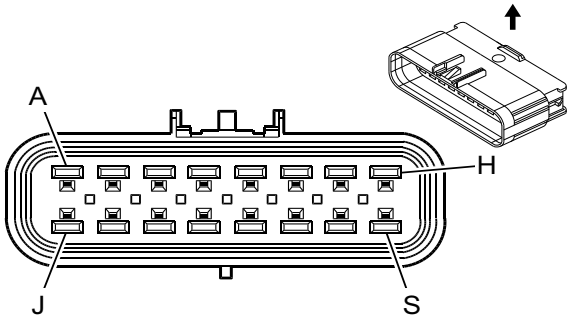
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
E1-2	0.35	L-GN	1715	I	—	Windshield Wiper Switch High Signal	E1-2	0.35	L-GN	1715	IV	—
E1-3	0.35	D-GN	5060	I	—	Low Speed GMLAN Serial Data	E1-3	0.35	D-GN	5060	IV	—

cardiagn.com

X202 Instrument Panel Harness to Engine Harness



847252



847270

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15326666
Service Connector: 15326666
Description: 16-Way F 280 GT Series, Sealed (BK)

Connector Part Information

Harness Type: Engine
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13576356	J-35616-4A (PU)	J-38125-553	15304719	Delphi 19	E	5
II	13580826	J-35616-5 (PU)	J-38125-553	15304731	Delphi 19	E	5

X202 Instrument Panel Harness to Engine Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	YE/VT	2378	I	UD7	Right Rear Corner Object Sensor Signal	A	0.5	YE/VT	2378	II	UD7
B	0.5	YE/WH	2377	I	UD7	Right Rear Middle Object Sensor Signal	B	0.5	YE/WH	2377	II	UD7
C	0.5	RD/WH	840	I	—	Battery Positive Voltage	C	0.5	RD/WH	840	II	—
D - E	—	—	—	—	—	Not Occupied	D - E	—	—	—	—	—
F	0.5	BN	5360	I	—	Brake Apply Sensor Low Reference	F	0.5 0.5	BK/BN BN	5360 5360	II II	LV1/LWN LC8/L96
G	0.5	BN/WH	2374	I	UD7	Object Sensor Control	G	0.5	BN/WH	2374	II	UD7
H	0.5	YE	2375	I	—	Left Rear Corner Object Sensor Signal	H	0.5	YE	2375	II	—

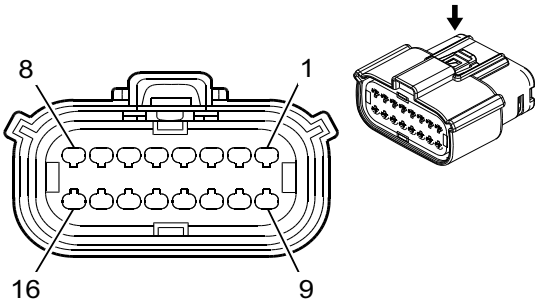
cardiagn.com

X202 Instrument Panel Harness to Engine Harness (cont'd)

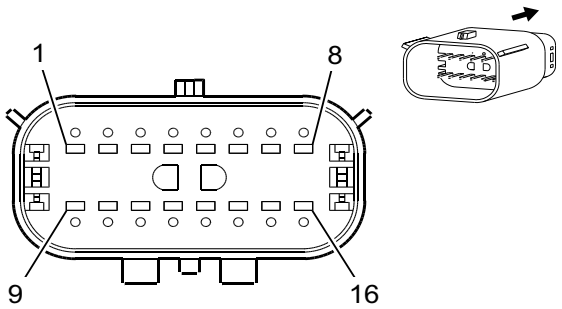
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
J	0.5	BK/GY	2379	I	UD7	Object Sensor Low Reference	J	0.5	BK/GY	2379	II	UD7
K - L	—	—	—	—	—	Not Occupied	K - L	—	—	—	—	—
M	0.5	RD/WH	4892	I	—	Auxiliary Battery Relay Control	M	0.5	RD/WH	4892	II	—
N	—	—	—	—	—	Not Occupied	N	—	—	—	—	—
P	0.5	YE	5361	I	—	Brake Apply Sensor Signal	P	0.5 0.5	D-BU/YE YE	5361 5361	II II	LV1/LWN LC8/L96
R	0.5	WH	5359	I	—	Brake Apply Sensor Control	R	0.5	WH	5359	II	—
S	0.5	YE/D-BU	2376	I	UD7	Left Rear Middle Object Sensor Signal	S	0.5	YE/D-BU	2376	II	UD7

cardiagn.com

X204 Body Harness to Headliner Harness



2548389



2548390

Connector Part Information

Harness Type: Body
OEM Connector: 13778557
Service Connector: 13584788
Description: 16-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Headliner
OEM Connector: 33372790
Service Connector: 19369662
Description: 16-Way M 150 MX Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300432	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
II	19300635	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	19119395	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
IV	19119440	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

X204 Body Harness to Headliner Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5 0.35	BU BU	7641 7641	I II	UVC +CARGO/ PASSENGER UVC +CUTAWAY	Camera Rear Vision Signal + Camera Rear Vision Signal +	1	0.5 0.5 0.5 0.5 0.5	WH BU BU WH BU	7641 7641 7641 7641 7641	IV IV III IV IV	UVC UVC+UEU/UFL UVC-UEU/UFL UVC UVC+UEU/UFL
2	0.5 0.35	BU BU	7642 7642	I II	UVC +CARGO/ PASSENGER UVC +CUTAWAY	Camera Rear Vision Signal (-) Camera Rear Vision Signal (-)	2	0.5 0.5 0.5	WH BU WH	7642 7642 7642	III IV III	UVC+UEU/UFL UVC-UEU/UFL UVC+UEU/UFL

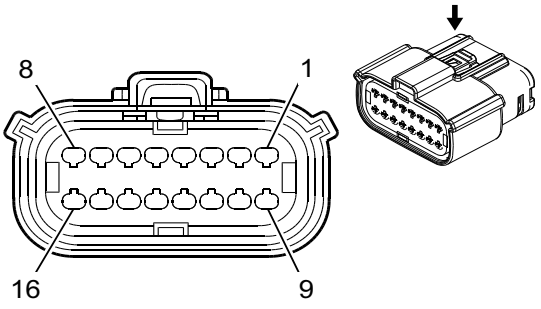
cardiagn.com

X204 Body Harness to Headliner Harness (cont'd)

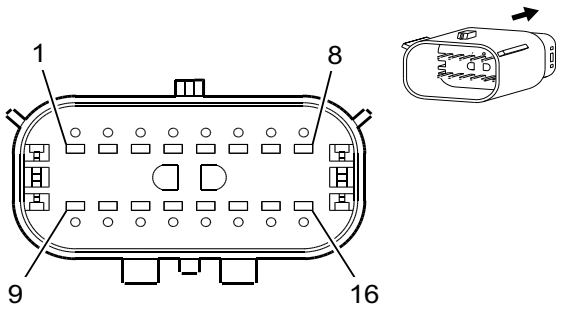
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
3	0.5	BK	6799	I	—	Camera Shield Ground	3	0.5 0.5	BK BK	6799 6799	IV III	UVC+UEU/UFL UVC-UEU/UFL
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
5	0.5	PK	239	I	UVC	Run/Crank Ignition 1 Voltage	5	0.5 0.5	VT/WH PK	239 239	III IV	UVC+UEU/UFL UVC-UEU/UFL
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
7	0.8	D-GN/	654	I	—	Cellular Telephone Microphone Low Reference	7	0.8	D-GN/	654	IV	—
8	0.8	GY	655	I	—	Cellular Telephone Microphone Signal	8	0.8	GY	655	IV	—
9	0.5	L-GN/	24	I	UVC	Backup Lamp Control	9	0.5 0.5	GN/WH L-GN/	24 24	III IV	UVC-UEU/UFL UVC+UEU/UFL
10	0.5	BK	1850	I	—	Ground	10	0.5	BK	1850	III	—
11	0.5	GY/WH	3153	I	—	Lane Departure Warning Disable Switch Signal	11	0.5	GY/WH	3153	III	—
12	0.5	GN	5060	I	—	Low Speed GMLAN Serial Data	12	0.5	GN	5060	III	—
13	—	—	—	—	—	Not Occupied	13	—	—	—	—	—
14	0.5	WH	3152	I	—	Lane Departure Warning Indicator Control	14	0.5	WH	3152	III	—
15	—	—	—	—	—	Not Occupied	15	—	—	—	—	—
16	0.5	RD/GN	3140	I	—	Battery Positive Voltage	16	0.5	RD/GN	3140	III	—

cardiagn.com

X205 Front Headliner Harness to Body Harness



2548389



2548390

Connector Part Information

Harness Type: Headliner
OEM Connector: 13778557
Service Connector: 13584788
Description: 16-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 33372790
Service Connector: 19369662
Description: 16-Way M 150 MX Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300432	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
II	19300635	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	19119395	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
IV	19119440	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
V	19119842	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

X205 Front Headliner Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	BN	441	II	—	Run Ignition 3 Voltage	1	0.35	BN	441	V	—
2	0.5	OG	1925	I	—	Auxiliary Blower Motor Medium Speed Control	2	0.35	OG	1925	V	—
3	0.5	PK/BK	5265	I	—	Dual Logic Module Rear Control Signal	3	0.5	PK/BK	5265	III	—
4	0.35	GY	2599	II	—	Rear Mode Motor Signal	4	0.35	GY	2599	V	—
5	0.5	WH	1924	I	—	Auxiliary Blower Motor High Speed Control	5	0.35	WH	1924	V	—
6	0.35	BN	341	II	—	Run Ignition 3 Voltage	6	0.35	BN	341	V	—

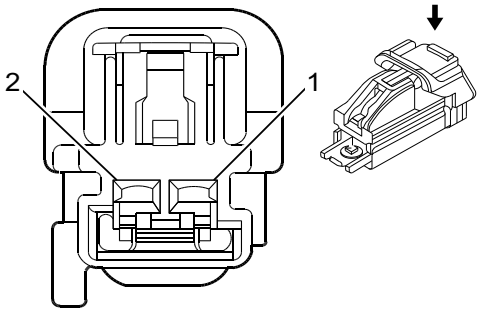
cardiagn.com

X205 Front Headliner Harness to Body Harness (cont'd)

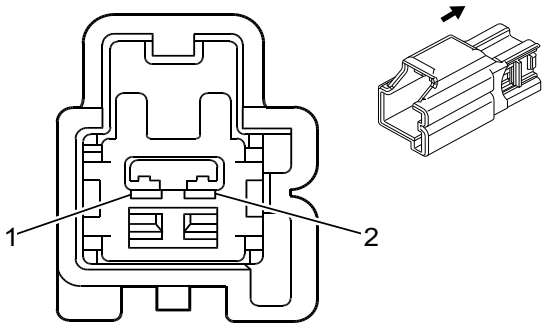
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
7	1 0.8	BK BK	1850 1850	I I	C69/DH6-YF1 -C69-DH6/YF1	Ground Ground	7	1	BK	1850	IV	—
8	0.5	D-BU/WH	149	I	—	Courtesy Lamp Control	8	0.5	D-BU/WH	149	III	—
9	0.5	BK/WH	351	I	—	Signal Ground	9	0.35	BK/WH	351	V	—
10	0.5	BN	5263	I	—	Dual Logic Module Rear Temperature Signal	10	0.5	BN	5263	III	—
11	0.35	D-GN/	6134	II	—	Local Interconnect Network Serial Data Bus 3	11	0.35	D-GN/	6134	V	—
12	0.35	OG	2775	II	—	Rear Air Temperature Motor Control	12	0.35	OG	2775	V	—
13	0.5	VT/WH	5264	I	—	Dual Logic Module Rear Mode Signal	13	0.5	VT/WH	5264	III	—
14	0.5	D-BU/	1926	I	—	Auxiliary Blower Motor Low Speed Control	14	0.35	D-BU/	1926	V	—
15	0.35	BN/WH	230	II	—	Instrument Panel Lamp Dimming Control	15	0.35	BN/WH	230	V	—
16	0.5 0.8	OG OG	1732 1732	I I	(5BV+C69-TR9-YF1)/(DH6-TR9-5BV-YF1) TR9	Electronic Control Unit 12V Reference 3 Electronic Control Unit 12V Reference 3	16	0.8	OG	1732	IV	—

cardiagn.com

X206 Instrument Panel Harness to Instrument Panel Harness



1856792



1853532

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 10846794
Service Connector: 19367525
Description: 2-Way F 1.5 YESC Series (L-GY)

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 10846798
Service Connector: 19367526
Description: 2-Way M 1.5 Series (L-GY)

Terminal Part Information

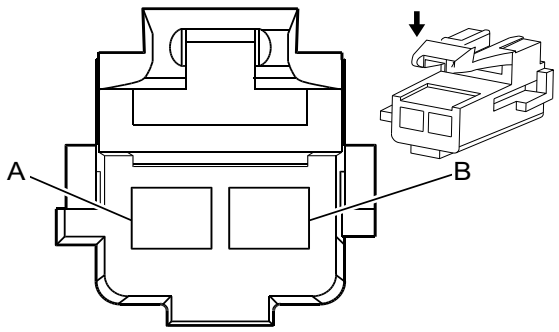
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X206 Instrument Panel Harness to Instrument Panel Harness

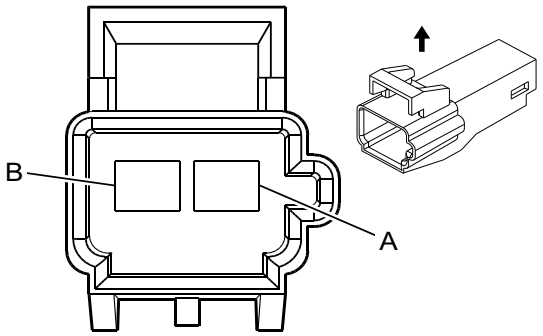
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	L-BU	20	I	—	Stop Lamp Control	1	0.5	L-BU	20	II	—
2	0.5	BK	350	I	—	Ground	2	0.5	BK	350	II	—

cardiagn.com

X220 Instrument Panel Harness to Park Brake Jumper Harness



1542255



788072

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12129082
Service Connector: 15305896
Description: 2-Way F 280 Metri-Pack Flexlock Series (GY)

Connector Part Information

Harness Type: Park Brake Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M

Terminal Part Information

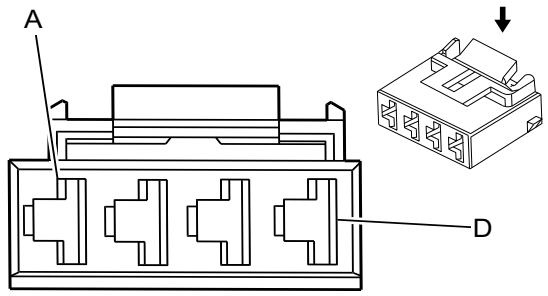
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X220 Instrument Panel Harness to Park Brake Jumper Harness

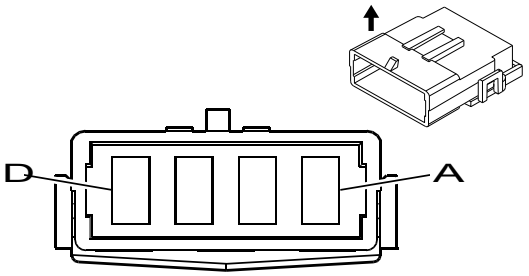
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.35	L-BU	1134	I	—	Park Brake Switch Signal	A	0.35	L-BU	1134	II	—
B	—	—	—	—	—	Not Occupied	B	—	—	—	—	—

cardiagn.com

X222 Upfitter Provision Harness to Instrument Panel Harness



365938



655680

Connector Part Information

Harness Type: Upfitter Provision
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12052623
Service Connector: 15306008
Description: 4-Way M 630 Metri-Pack Series (BK)

Terminal Part Information

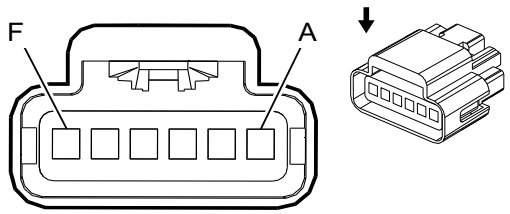
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-43 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X222 Upfitter Provision Harness to Instrument Panel Harness

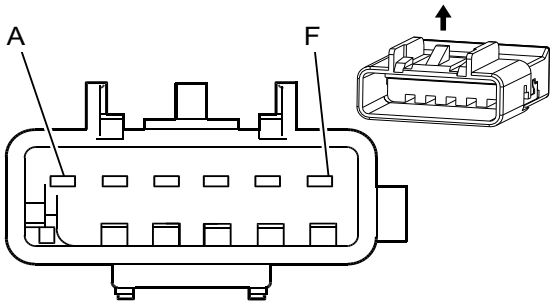
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	5	RD/BK	1042	I	—	Battery Positive Voltage	A	5	RD/BK	1042	II	—
B	5	BN	541	I	—	Run Ignition 3 Voltage	B	5	BN	541	II	—
C	5	BK	350	I	—	Ground	C	5	BK	350	II	—
D	—	—	—	—	—	Not Occupied	D	—	—	—	—	—

cardiagn.com

X225 Accelerator Pedal Position Sensor Harness to Instrument Panel Harness



2526641



1464340

Connector Part Information

Harness Type: Accelerator Pedal Position Sensor
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
OEM Connector: 15332142
Service Connector: 19368863
Description: 6-Way M 150 GT Series (BK)

Terminal Part Information

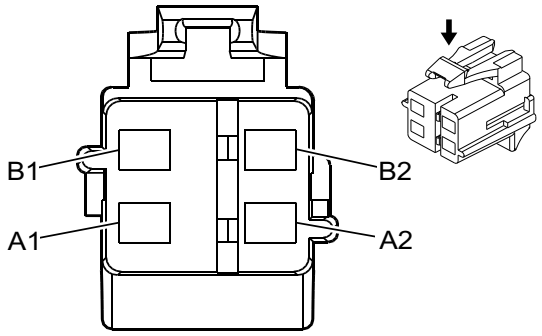
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X225 Accelerator Pedal Position Sensor Harness to Instrument Panel Harness

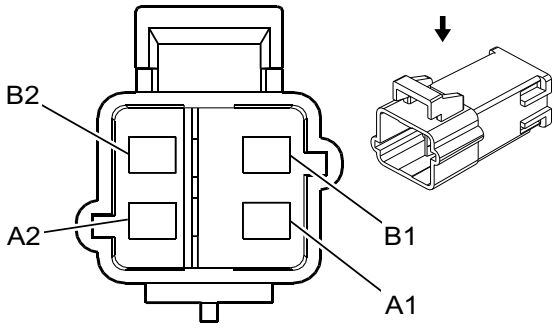
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.35	TN	1274	I	—	Accelerator Pedal Position 5V Reference 2	A	0.35	BN/ RD	1274	II	—
B	0.35	WH/ BK	1164	I	—	Accelerator Pedal Position 5V Reference 1	B	0.35	WH/ RD	1164	II	—
C	0.35	D-BU/	1161	I	—	Accelerator Pedal Position Signal 1	C	0.35	YE/ WH	1161	II	—
D	0.35	BK/ BU	1271	I	—	Accelerator Pedal Position Low Reference 1	D	0.35	BK/D-BU	1271	II	—
E	0.35	PU/	1272	I	—	Accelerator Pedal Position Low Reference 2	E	0.35	BK/ VT	1272	II	—
F	0.35	L-BU	1162	I	—	Accelerator Pedal Position Signal 2	F	0.35	L-GN/ WH	1162	II	—

cardiagn.com

X276 Steering Wheel Harness to Instrument Panel Harness



594473



684931

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15336476
Service Connector: 88987998
Description: 4-Way M 280 Metri-Pack Series (YE)

Terminal Part Information

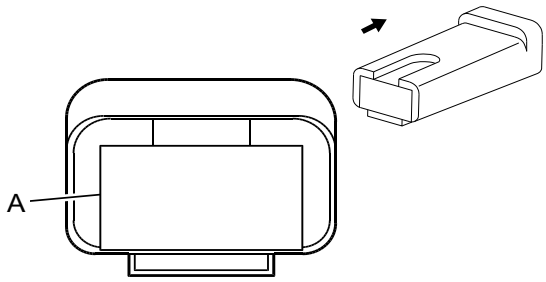
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X276 Steering Wheel Harness to Instrument Panel Harness

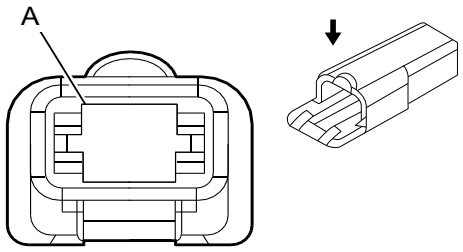
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A1	0.5	TN	3021	I	—	Steering Wheel Module Stage 1 High Control	A1	0.5	TN	3021	II	—
A2	0.5	BN	3020	I	—	Steering Wheel Module Stage 1 Low Control	A2	0.5	BN	3020	II	—
B1 - B2	—	—	—	—	—	Not Occupied	B1 - B2	—	—	—	—	—

cardiagn.com

X289 Rear Body Harness to Instrument Panel Harness



1542249



2698491

Connector Part Information

Harness Type: Rear Body
OEM Connector: 6288704
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way F 56 Series (CR)

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 2984528
Service Connector: 02984528
Description: 1-Way M 56 Series (BK)

Terminal Part Information

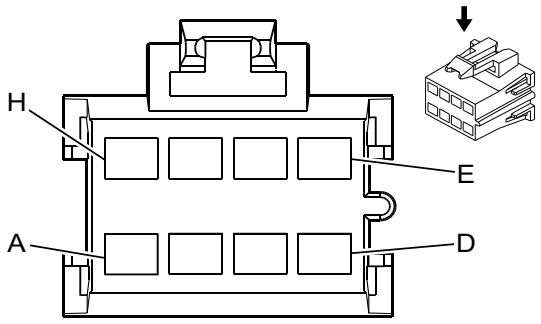
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-43 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X289 Rear Body Harness to Instrument Panel Harness

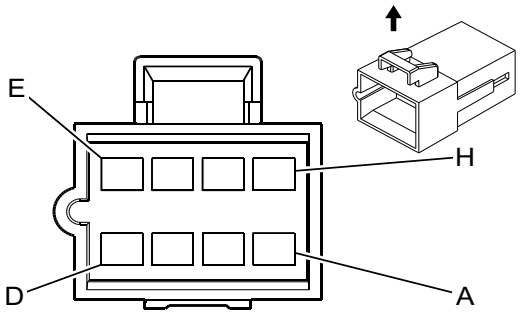
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	5	RD	1042	I	—	Battery Positive Voltage	A	5	RD/ BK	1042	II	—

cardiagn.com

X290 Instrument Panel Harness to Rear Body Harness



62469



655684

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12064998
Service Connector: 15306189
Description: 8-Way F 280 Metri-Pack Series (BK)

Connector Part Information

Harness Type: Rear Body
OEM Connector: 12066195
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way M 280 Metri-Pack Series (BK)

Terminal Part Information

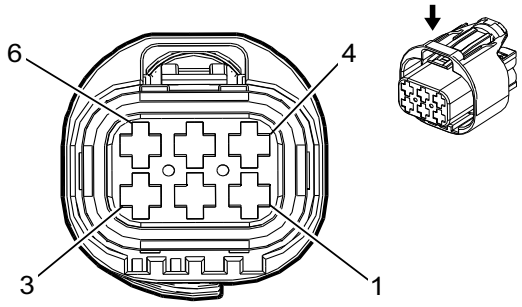
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X290 Instrument Panel Harness to Rear Body Harness

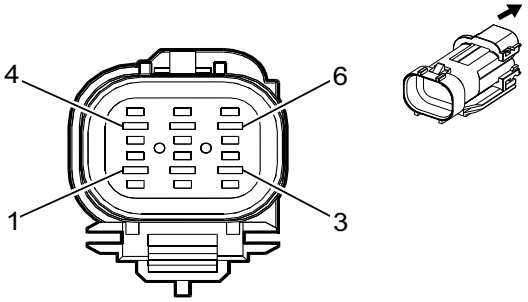
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	L-BU	244	I	—	Passenger Door Lock Switch Lock Control	A	0.5	L-BU/ WH	244	II	—
B	0.5	L-BU	1344	I	—	Rear Compart-ment Lid Release Relay Control	B	0.5	L-BU	1344	II	—
C	0.5	L-GN	1391	I	—	Left Front Door Lock Relay Control	C	20	L-GN	1391	II	—
D - F	—	—	—	—	—	Not Occupied	D - F	—	—	—	—	—
G	0.8	OG	1732	I	—	Electronic Control Unit 12V Refer-ence 3	G	0.8	RD	1732	II	—
H	0.5	YE	5810	I	—	Park Enable Signal	H	0.5	OG	5810	II	—

cardiagn.com

X291 Accessory Power Fuse Block Rear Extension Harness to Accessory Power Fuse Block Rear Extension Harness



2042938



2042939

Connector Part Information

Harness Type: Accessory Power Fuse Block Rear Extension
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 Extension
OEM Connector: 10865189
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M 2.8 Series, Sealed (BK)

Terminal Part Information

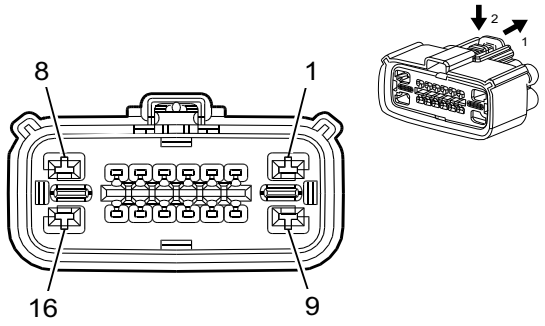
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X291 Accessory Power Fuse Block Rear Extension Harness to Accessory Power Fuse Block Rear Extension Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	D-GN/	6840	I	—	Auxiliary Device 2 Switched Voltage	1	2.5	D-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	I	—	Auxiliary Device Relay 2 Control	3	0.5	D-BU/	6843	II	—
4	0.5	L-BU/	6842	I	—	Auxiliary Device Relay 1 Control	4	0.5	L-BU/	6842	II	—
5	1	RD/WH	5440	I	—	Battery Positive Voltage	5	1	RD/WH	5440	II	—
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

cardiagn.com

X306 Body Harness to Passenger Seat Harness



4283035

—

Connector Part Information

Harness Type: Body
OEM Connector: 33320906
Service Connector: 19368738
Description: 16-Way F 1.5, 2.8 Series, Sealed (YE)

Connector Part Information

Harness Type: Passenger Seat
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 16-Way M

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13576377	J-35616-35 (VT)	J-38125-12A	1326030-8	Lear 17	4	D
II	13578813	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	Not Available	No Tool Required	J-38125-215A	Not Available	Not Available	Not Available	Not Available
IV	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
V	Not Required	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

X306 Body Harness to Passenger Seat Harness

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 Signal	2	—	OG/	1362	V	—
3	—	L-BU/	1361	III	—	Passenger Seat Belt Switch Low Reference	3	—	PK/	1361	V	—
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
5	0.5	L-GN	2116	II	—	Passenger Seat Belt Pretensioner High Control	5	0.5	L-GN	2116	IV	—
6	0.5	OG	2117	II	—	Passenger Seat Belt Pretensioner Low Control	6	0.5	OG	2117	IV	—

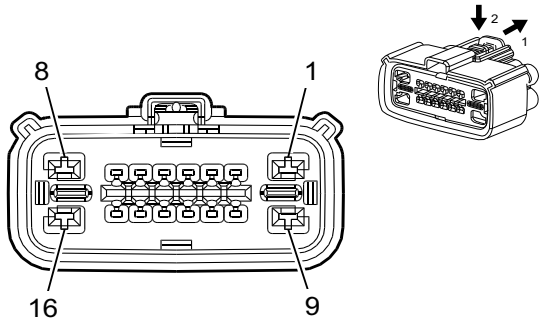
cardiagn.com

X306 Body Harness to Passenger Seat Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
7 - 8	—	—	—	—	—	Not Occupied	7 - 8	—	—	—	—	—
9	3	RD/ WH	3540	I	—	Battery Positive Voltage	9	3	RD/ WH	3540	IV	—
10	0.5	L-GN	2136	II	—	Right Front Side Impact Module Low Control	10	0.5	L-GN	2136	IV	—
11	0.5	TN/ WH	2135	II	—	Right Front Side Impact Module High Control	11	0.5	TN/ WH	2135	IV	—
12 - 16	—	—	—	—	—	Not Occupied	12 - 16	—	—	—	—	—

cardiagn.com

X307 Body Harness to Driver Seat Harness



—

4283035

Connector Part Information

Harness Type: Body
OEM Connector: 33320906
Service Connector: 19368738
Description: 16-Way F 1.5, 2.8 Series, Sealed (YE)

Connector Part Information

Harness Type: Driver Seat
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 16-Way M

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13576377	J-35616-35 (VT)	J-38125-12A	1326030-8	Lear 17	4	D
II	13578813	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	19300432	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
IV	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X307 Body Harness to Driver Seat Harness

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	IV	—
2	0.5	PK	5057	III	—	Seat Position Switch Low Reference	2	0.5	PK	5057	IV	—
3	0.5	TN/WH	238	III	—	Driver Seat Belt Switch Signal	3	0.5	TN/WH	238	IV	—
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
5	0.5	TN/WH	2118	II	—	Driver Seat Belt Pretensioner High Control	5	0.5	TN/WH	2118	IV	—
6	0.5	OG/BK	2119	II	—	Driver Seat Belt Pretensioner Low Control	6	0.5	OG/BK	2119	IV	—
7 - 8	—	—	—	—	—	Not Occupied	7 - 8	—	—	—	—	—

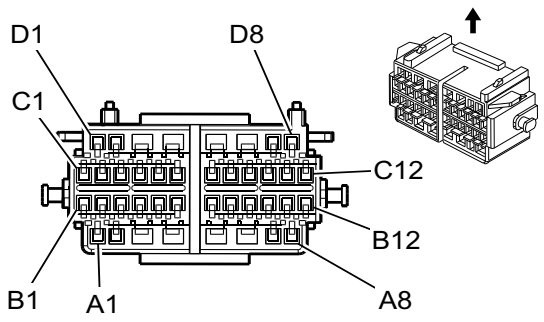
cardiagn.com

X307 Body Harness to Driver Seat Harness (cont'd)

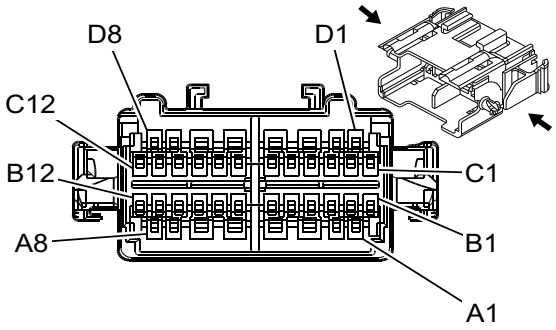
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	3	BK	450	I	—	Ground	9	3	BK	450	IV	—
10	0.5	YE/ BK	2138	II	—	Left Front Side Impact Module Low Control	10	0.5	YE/ BK	2138	IV	—
11	0.5	BN	2137	II	—	Left Front Side Impact Module High Control	11	0.5	BN	2137	IV	—
12 - 16	—	—	—	—	—	Not Occupied	12 - 16	—	—	—	—	—

cardiagn.com

X318 Instrument Panel Harness to Body Harness



1538795



851471

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15448130
Service Connector: 89046970
Description: 40-Way F 150, 280 GT Series (L-GY)

Connector Part Information

Harness Type: Body
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575479	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
II	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	C	A
III	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C
IV	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	2	A
V	13575753	J-35616-4A (PU)	J-38125-553	15304711	Delphi 8	E	A
VI	13575500	J-35616-3 (GY)	J-38125-553	15304702	Delphi 19	E	C
VII	13575502	J-35616-3 (GY)	J-38125-553	15304702	Delphi 19	E	4
VIII	13575505	J-35616-5 (PU)	J-38125-553	15304722	Delphi 8	E	C
IX	13575507	J-35616-5 (PU)	J-38125-553	15304724	Delphi 8	2	A
X	13575511	J-35616-5 (PU)	J-38125-553	15304722	Delphi 8	E	C
XI	19177683	J-35616-3 (GY)	J-38125-553	15304702	Delphi 19	2	4

X318 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A1	0.8	OG	1853	II	—	Right Front Midrange Speaker Control (+)	A1	0.8	OG	1853	XI	—

cardiagn.com

X318 Instrument Panel Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A2	0.8	D-GN/	1953	II	—	Right Front Midrange Speaker (-) Low Reference	A2	0.8	D-GN/	1953	XI	—
A3	0.5	BK/WH	1751	V	—	Signal Ground	A3	0.5	BK/WH	1751	X	—
A4	0.5	TN/BK	371	V	—	Passenger IP Module Disable Switch Signal	A4	0.5	TN/BK	371	X	—
A5	0.5	BU/YE	6105	V	—	High Speed GMLAN Serial Data (+) 2	A5	0.5	BU/YE	6105	X	—
A6	0.5	WH	6106	V	—	High Speed GMLAN Serial Data (-) 2	A6	0.5	WH	6106	X	—
A7	1	RD/WH	440	II	—	Battery Positive Voltage	A7	1	RD/WH	440	XI	—
A8	0.35	YE/BK	1181	I	—	Right Rear Door Open Switch Signal	A8	0.35	YE/BK	1181	VI	—
B1	0.8	L-BU/	1320	II	—	CHMSL Control	B1	0.8	L-BU/	1320	XI	—
B2	—	—	—	—	—	Not Occupied	B2	—	—	—	—	—
B3	0.8	TN	1855	II	—	Right Rear Midrange Speaker Control (+)	B3	1	TN	1855	XI	—
B4	0.8	OG	1955	II	—	Right Rear Midrange Speaker (-) Low Reference	B4	1	OG	1955	XI	—
B5	—	—	—	—	—	Not Occupied	B5	—	—	—	—	—
B6	0.5	GN	5060	III	—	Low Speed GMLAN Serial Data	B6	0.5	GN	5060	VII	—
B7	0.5	D-BU/WH	6619	III	—	Middle Front Discriminating Sensor Low Reference	B7	0.5	D-BU/WH	6619	VII	—
B8	0.5	BN/WH	6618	III	—	Middle Front Discriminating Sensor Signal	B8	0.5	BN/WH	6618	VII	—
B9	0.35	WH	3152	I	—	Lane Departure Warning Indicator Control	B9	0.5	WH	3152	VII	—

cardiagn.com

X318 Instrument Panel Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
B1-0	0.35	D-GN/	5060	I	—	Low Speed GMLAN Serial Data	B1-0	0.35	D-GN/	5060	VI	—
B1-1	0.35	D-GN/	6134	I	—	Local Interconnect Network Serial Data Bus 3	B11	0.35	D-GN/	6134	VI	—
B1-2	0.35	GY/WH	3153	I	—	Lane Departure Warning Disable Switch Signal	B1-2	0.5	GY/WH	3153	VII	—
C1	0.8	D-GN/	654	II	—	Cellular Telephone Microphone Low Reference	C1	0.8	D-GN/	654	XI	—
C2	0.35	PK	1139	I	—	Run/Crank Ignition 1 Voltage	C2	0.35	PK	1139	VI	—
C3	0.8	TN	1859	II	—	Left Rear Midrange Speaker Control (+)	C3	1	TN	1859	XI	—
C4	0.8	WH	1959	II	—	Left Rear Midrange Speaker (-) Low Reference	C4	1	WH	1959	XI	—
C5	0.8	GY	655	II	—	Cellular Telephone Microphone Signal	C5	0.8	GY	655	XI	—
C6	—	—	—	—	—	Not Occupied	C6	—	—	—	—	—
C7	0.35	L-GN/	5926	I	—	Rear Access Open Switch Signal	C7	0.35	L-GN/	5926	VI	—
C8	0.35	PK/BK	1303	I	—	Lift Gate Ajar Switch Signal 1	C8	0.35	PK/BK	1303	VI	—
C9	0.35	TN/WH	746	I	—	Right Front Door Ajar Switch Signal	C9	0.35	TN/WH	746	VI	—
C1-0	0.35	L-GN/	1177	I	—	Right Front Door Open Switch Signal	C1-0	0.35	L-GN/	1177	VI	—
C1-1	0.5	TN	126	III	—	Left Front Door Open Switch Signal	C1-1	0.35	TN	126	VI	—
C1-2	0.35	GY/BK	745	I	—	Left Front Door Ajar Switch Signal	C1-2	0.35	GY/BK	745	VI	—
D1	0.8	D-BU/	1857	II	—	Left Front Midrange Speaker Control (+)	D1	0.8	D-BU/	1857	XI	—

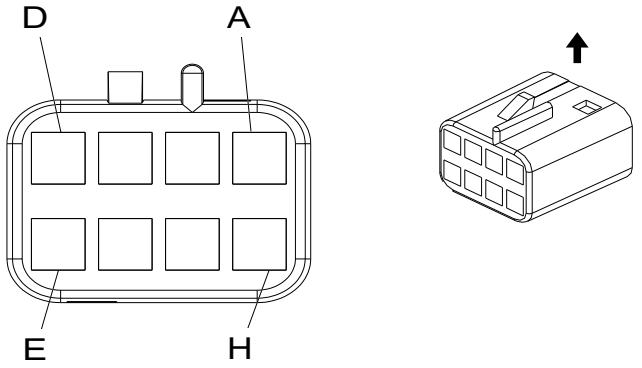
cardiagn.com

X318 Instrument Panel Harness to Body Harness (cont'd)

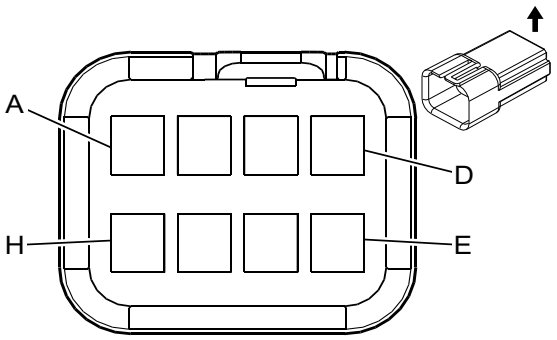
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
D2	0.8	L-BU/	1957	II	—	Left Front Midrange Speaker (-) Low Reference	D2	0.8	L-BU/	1957	XI	—
D3	0.8 0.8	OG OG	1732 1732	IV IV	PRP -PRP	Electronic Control Unit 12V Reference 3 Electronic Control Unit 12V Reference 3	D3	0.8	OG	1732	IX	—
D4	0.5	PK	353	V	—	Passenger IP Module Suppression Indicator Control	D4	0.5	PK	353	X	—
D5	0.5	PK/ BK	780	V	—	Driver Door Lock Switch Lock Signal	D5	0.35	PK/ BK	780	VIII	—
D6	0.5 0.35	OG/ BK OG/ BK	781 781	V V	AU3 AU3+PRP	Driver Door Lock Switch Unlock Signal Driver Door Lock Switch Unlock Signal	D6	0.35	OG/ BK	781	VIII	AU3
D7	0.35	L-BU/	244	I	—	Passenger Door Lock Switch Lock Control	D7	0.35	L-BU/	244	VI	—
D8	0.35 0.35	OG/ BK D-BU/	781 245	I I	AU3+PRP AU3-PRP	Driver Door Lock Switch Unlock Signal Passenger Door Lock Switch Unlock Control	D8	0.35	D-BU/	245	VI	AU3

cardiagn.com

X319 Auxiliary Heater Front Harness to Body Harness



62439



62434

Connector Part Information

Harness Type: Auxiliary Heater Front
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
OEM Connector: 12045688
Service Connector: 13584253
Description: 8-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

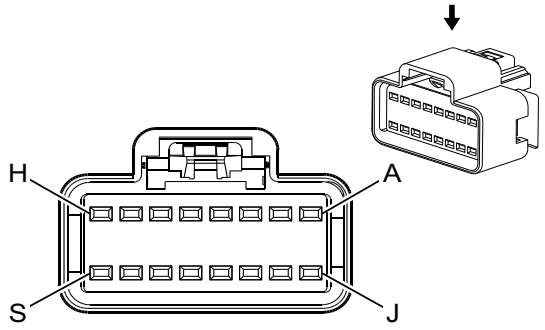
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X319 Auxiliary Heater Front Harness to Body Harness

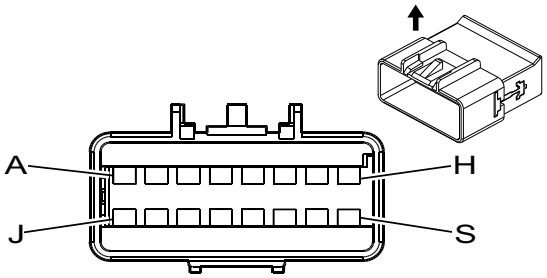
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.35	WH	1924	I	—	Auxiliary Blower Motor High Speed Control	A	0.35	WH	1924	II	—
B	0.35	OG	1925	I	—	Auxiliary Blower Motor Medium Speed Control	B	0.35	OG	1925	II	—
C	0.35	D-BU/	1926	I	—	Auxiliary Blower Motor Low Speed Control	C	0.35	D-BU/	1926	II	—
D	0.35	BN/WH	230	I	—	Instrument Panel Lamp Dimming Control	D	0.35	BN/WH	230	II	—
E	0.35	BK	450	I	—	Ground	E	0.35	BK	450	II	—
F - H	—	—	—	—	—	Not Occupied	F - H	—	—	—	—	—

cardiagn.com

X320 Upfitter Provision Harness to Body Harness



1711010



646377

Connector Part Information

Harness Type: Upfitter Provision
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 16-Way F

Connector Part Information

Harness Type: Body
OEM Connector: 13516907
Service Connector: 19153746
Description: 16-Way M 150 GT Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13575502	J-35616-3 (GY)	J-38125-553	15304702	Delphi 19	E	4
III	19177683	J-35616-3 (GY)	J-38125-553	15304702	Delphi 19	2	4

X320 Upfitter Provision Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	1	WH	1959	I	—	Left Rear Midrange Speaker (-) Low Reference	A	1	WH	1959	III	—
B	1	TN	1859	I	—	Left Rear Midrange Speaker Control (+)	B	1	TN	1859	III	—
C	1	OG	1955	I	—	Right Rear Midrange Speaker (-) Low Reference	C	1	OG	1955	III	—
D	1	TN	1855	I	—	Right Rear Midrange Speaker Control (+)	D	1	TN	1855	III	—
E - N	—	—	—	—	—	Not Occupied	E - N	—	—	—	—	—
P	0.5	BK	450	I	—	Ground	P	0.5	BK	450	II	—

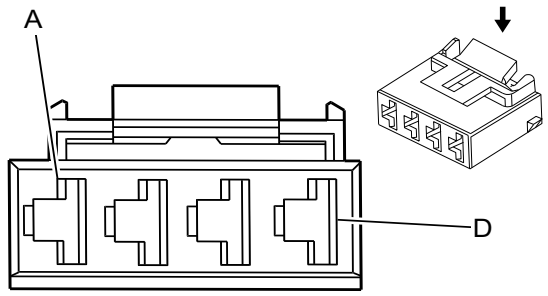
cardiagn.com

X320 Upfitter Provision Harness to Body Harness (cont'd)

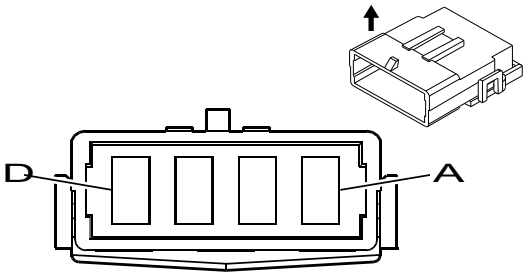
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
R	0.5	D-BU/WH	149	I	—	Courtesy Lamp Control	R	0.5	D-BU/WH	149	II	—
S	0.5	BN	2209	I	—	Rear Park Lamp Control	S	0.5	BN	2209	II	—

cardiagn.com

X321 Upfitter Provision Harness to Body Harness



365938



655680

Connector Part Information

Harness Type: Upfitter Provision
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F

Connector Part Information

Harness Type: Body
OEM Connector: 12052623
Service Connector: 15306008
Description: 4-Way M 630 Metri-Pack Series (BK)

Terminal Part Information

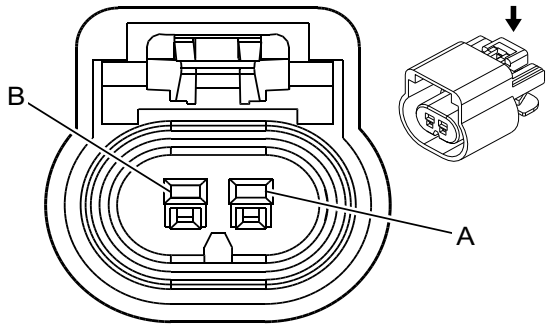
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-43 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X321 Upfitter Provision Harness to Body Harness

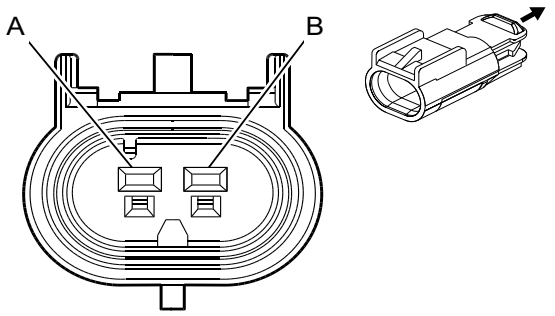
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	5	RD/ BK	1042	I	—	Battery Positive Voltage	A	5	RD/ BK	1042	II	—
B	5	BN	541	I	—	Run Ignition 3 Voltage	B	5	BN	541	II	—
C	5	BK	450	I	—	Ground	C	5	BK	450	II	—
D	—	—	—	—	—	Not Occupied	D	—	—	—	—	—

cardiagn.com

X323 Air Bag Jumper Harness to Body Harness



523630



681875

Connector Part Information

Harness Type: Air Bag Jumper
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
OEM Connector: 13510099
Service Connector: 13580103
Description: 2-Way M 150 GT Series, Sealed (BK)

Terminal Part Information

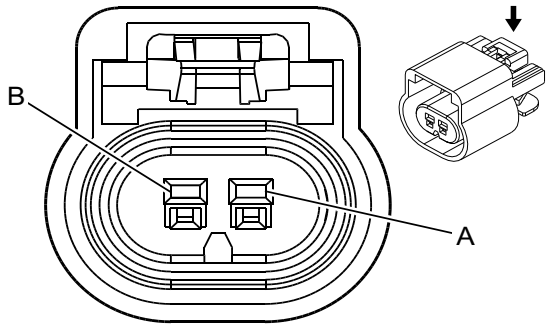
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X323 Air Bag Jumper Harness to Body Harness

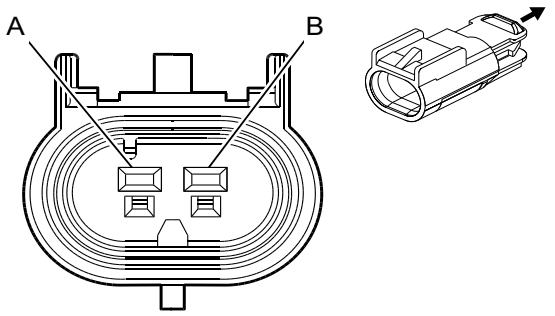
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	GY/ BK	6621	I	—	Left Middle Side Impact Sensing Module Low Reference	A	0.5	GY/ BK	6621	II	—
B	0.5	D-GN/ WH	6620	I	—	Left Middle Side Impact Sensing Module Signal	B	0.5	D-GN/ WH	6620	II	—

cardiagn.com

X324 Air Bag Jumper Harness to Body Harness



523630



681875

Connector Part Information

Harness Type: Air Bag Jumper
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
OEM Connector: 13510099
Service Connector: 13580103
Description: 2-Way M 150 GT Series, Sealed (BK)

Terminal Part Information

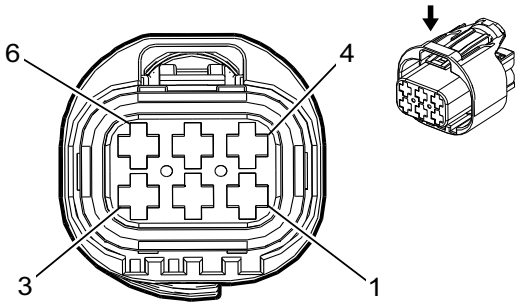
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X324 Air Bag Jumper Harness to Body Harness

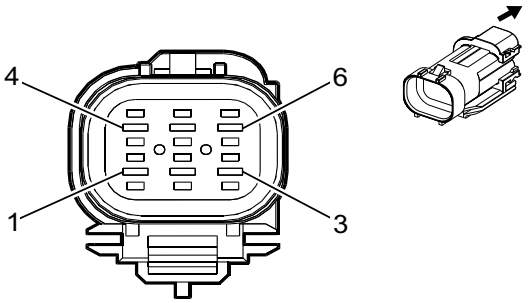
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	L-GN/ WH	6625	I	—	Right Middle Side Impact Sensing Module Low Reference	A	0.5	L-GN/ WH	6625	II	—
B	0.5	L-BU/ BK	6624	I	—	Right Middle Side Impact Sensing Module Signal	B	0.5	L-BU/ BK	6624	II	—

cardiagn.com

X328 Body Harness to Upfitter Jumper Harness



2042938



2042939

Connector Part Information

Harness Type: Body

OEM Connector: 10865192

Service Connector: 19332889

Description: 6-Way F 2.8 Junior Power Timer Series, Sealed (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 10865189

Service Connector: 93185233

Description: 6-Way M 2.8 Series, Sealed (BK)

Terminal Part Information

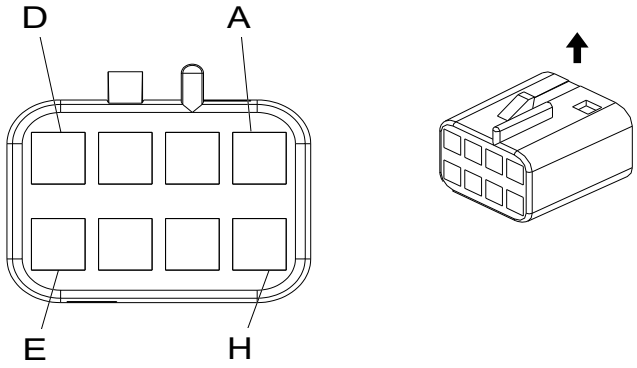
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X328 Body Harness to Upfitter Jumper Harness

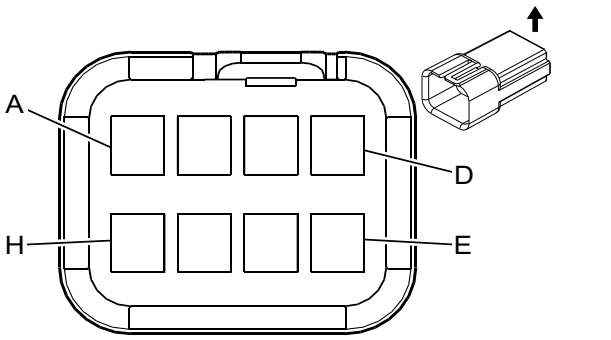
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	BN	6842	I	—	Auxiliary Device Relay 1 Control	1	0.5	BN	6842	II	—
2	0.5	BU/YE	6843	I	—	Auxiliary Device Relay 2 Control	2	0.5	BU/YE	6843	II	—
3	0.5	BK	450	I	—	Ground	3	0.5	BK	450	II	—
4	0.5	BK	450	I	—	Ground	4	0.5	BK	450	II	—
5 - 6	—	—	—	—	—	Not Occupied	5 - 6	—	—	—	—	—

cardiagn.com

X329 Instrument Panel Harness to Body Harness



62439



62434

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12047886
Service Connector: 13584485
Description: 8-Way F 150 Metri-Pack Series (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 12089526
Service Connector: 13584253
Description: 8-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

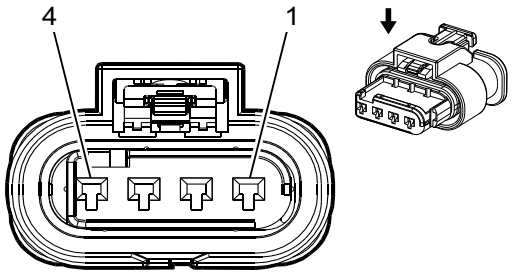
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X329 Instrument Panel Harness to Body Harness

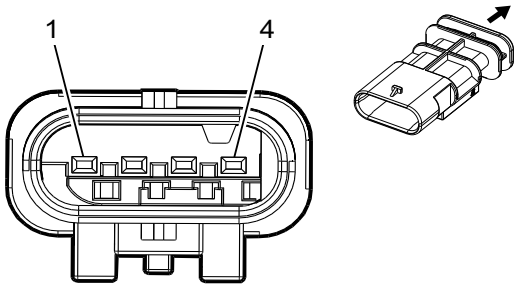
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A - C	—	—	—	—	—	Not Occupied	A - C	—	—	—	—	—
D	0.5	L-GN	24	I	—	Backup Lamp Control	D	0.5	L-GN	24	II	—
E	0.5	PK	239	I	—	Run/Crank Ignition 1 Voltage	E	0.5	PK	239	II	—
F	0.5	L-GN	24	I	—	Backup Lamp Control	F	0.5	L-GN	24	II	—
G - H	—	—	—	—	—	Not Occupied	G - H	—	—	—	—	—

cardiagn.com

X330 Body Harness to Body Harness



2684560



2684557

Connector Part Information

Harness Type: Body
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F

Connector Part Information

Harness Type: Body
OEM Connector: 13854529
Service Connector: 19299698
Description: 4-Way M 1.2 Series, Sealed (YE)

Terminal Part Information

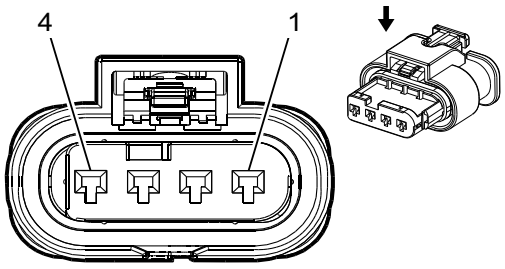
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X330 Body Harness to Body Harness

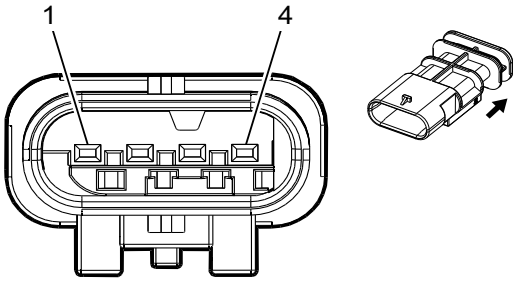
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	TN	3021	I	—	Steering Wheel Module Stage 1 High Control	1	0.5	TN	3021	II	—
2	0.5	BN	3020	I	—	Steering Wheel Module Stage 1 Low Control	2	0.5	BN	3020	II	—
3 - 4	—	—	—	—	—	Not Occupied	3 - 4	—	—	—	—	—

cardiagn.com

X331 Instrument Panel Harness to Body Harness



2684564



2684563

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13854532
Service Connector: 13586575
Description: 4-Way F 1.2 Series, Sealed (YE)

Connector Part Information

Harness Type: Body
OEM Connector: 13854530
Service Connector: 13586576
Description: 4-Way M 1.2 Series, Sealed (YE)

Terminal Part Information

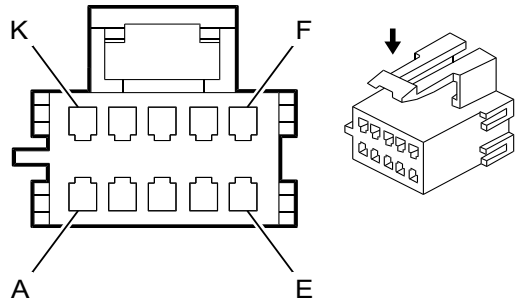
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X331 Instrument Panel Harness to Body Harness

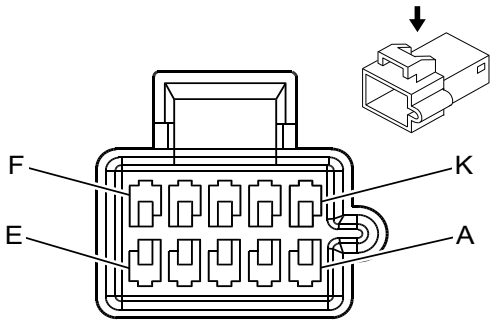
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	YE	3025	I	—	Passenger IP Module Stage 1 High Control	1	0.5	YE	3025	II	—
2	0.5	OG	3024	I	—	Passenger IP Module Stage 1 Low Control	2	0.5	OG	3024	II	—
3 - 4	—	—	—	—	—	Not Occupied	3 - 4	—	—	—	—	—

cardiagn.com

X400 Rear Cargo Door Harness to Body Harness



603055



808703

Connector Part Information

Harness Type: Rear Cargo Door
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
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13575462	J-35616-3 (GY)	J-38125-12A	12047581	Delphi 2	E	A
III	13575463	J-35616-3 (GY)	J-38125-12A	12047581	Delphi 2	E	C

X400 Rear Cargo Door Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	1	TN	1855	I	—	Right Rear Midrange Speaker Control (+)	A	1	TN	1855	II	—
B	1	OG	1955	I	—	Right Rear Midrange Speaker (-) Low Refer-ence	B	1	OG	1955	II	—
C	—	—	—	—	—	Not Occupied	C	—	—	—	—	—
D	0.35	BK/ WH	1051	I	—	Signal Ground	D	1	BK/ WH	1051	II	—
E	0.35	D-BU/	245	I	—	Passenger Door Lock Switch Unlock Control	E	0.35	D-BU/	245	III	—
F	1	GY	295	I	—	Door Lock Actuator Lock Control	F	1	GY	295	II	—

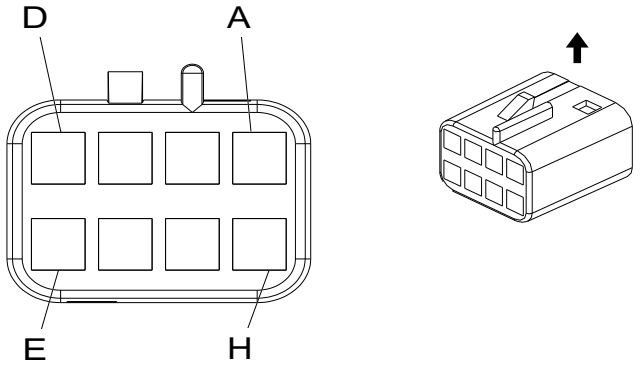
cardiagn.com

X400 Rear Cargo Door Harness to Body Harness (cont'd)

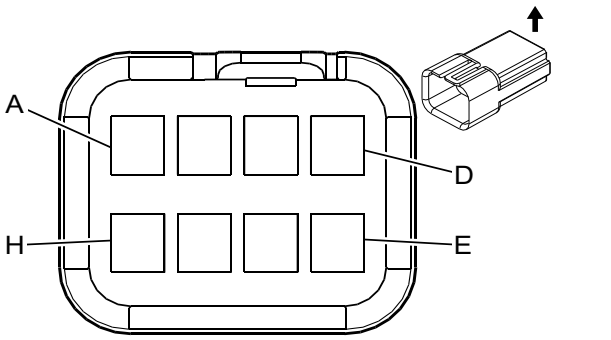
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
G	1	TN/ BK	1095	I	—	Right Rear Door Lock Actuator Unlock Control	G	1	TN/ BK	1095	II	—
H	0.35	L-GN	5926	I	—	Rear Access Open Switch Signal	H	0.35	L-GN	5926	III	—
J	0.35	PK/ BK	1303	I	—	Lift Gate Ajar Switch Signal 1	J	0.35	PK/ BK	1303	III	—
K	0.35	L-BU	244	I	—	Passenger Door Lock Switch Lock Control	K	0.35	L-BU	244	III	—

cardiagn.com

X403 Rearview Camera Harness to Body Harness (5BV)



62439



62434

Connector Part Information

Harness Type: Rearview Camera
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
OEM Connector: 12089526
Service Connector: 13584253
Description: 8-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

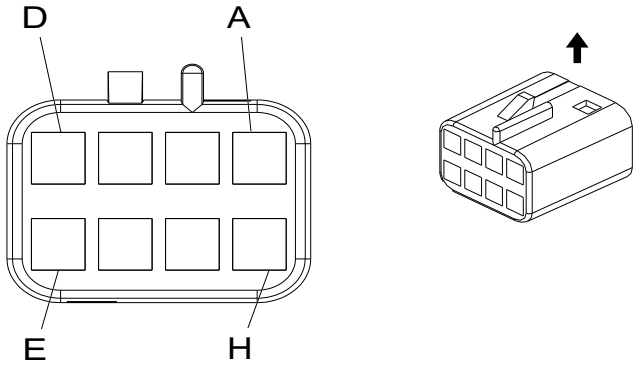
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X403 Rearview Camera Harness to Body Harness (5BV)

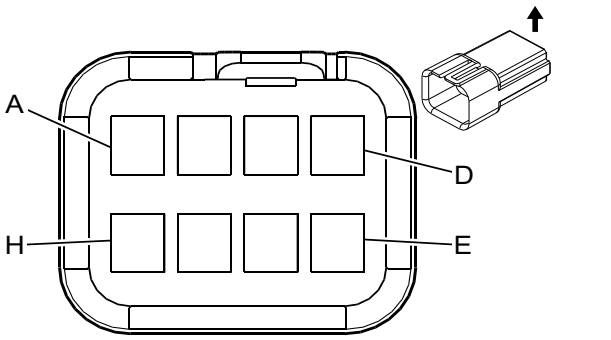
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	WH	7641	I	—	Camera Rear Vision Signal +	A	0.5	BU	7641	II	—
B	0.5	L-BU	7642	I	—	Camera Rear Vision Signal (-)	B	0.5	L-BU	7642	II	—
C - D	—	—	—	—	—	Not Occupied	C - D	—	—	—	—	—
E	0.5	PK	239	I	—	Run/Crank Ignition 1 Voltage	E	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/ WH	351	I	—	Signal Ground	G	—	—	—	—	—
H	0.5	Bare	6799	I	—	Camera Shield Ground	H	0.5	Bare	6799	II	—

cardiagn.com

X403 Rearview Camera Harness to Body Harness (-5BV)



62439



62434

Connector Part Information

Harness Type: Rear Cargo Door
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
OEM Connector: 12045688
Service Connector: 13584253
Description: 8-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

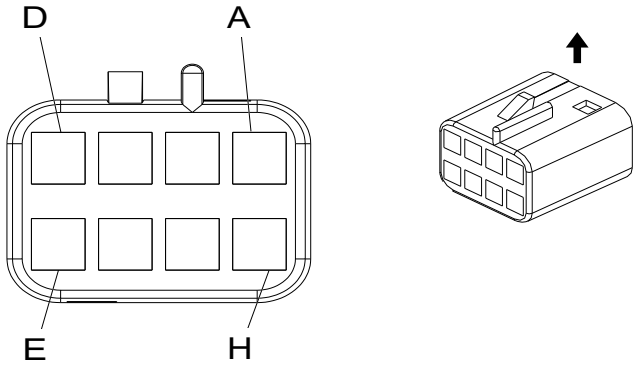
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X403 Rearview Camera Harness to Body Harness (-5BV)

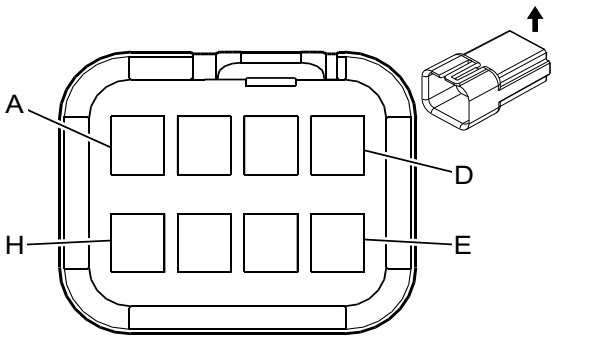
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	YE	7641	I	—	Camera Rear Vision Signal +	A	0.35	BU	7641	II	—
B	0.5	L-BU	7642	I	—	Camera Rear Vision Signal (-)	B	0.35	L-BU	7642	II	—
C	—	—	—	—	—	Not Occupied	C	—	—	—	—	—
D	0.5	BK	351	I	—	Signal Ground	D	—	—	—	—	—
E	0.5	PK	239	I	—	Run/Crank Ignition 1 Voltage	E	0.5	PK	239	II	—
F	0.5	L-GN	24	I	—	Backup Lamp Control	F	0.5	L-GN	24	II	—
G	—	—	—	—	—	Signal Ground	G	0.35	BK/ WH	351	II	—
H	0.5	Bare	6799	I	—	Camera Shield Ground	H	0.35	Bare	6799	II	—

cardiagn.com

X403 Body Harness to Body Harness (CARGO)



62439



62434

Connector Part Information

Harness Type: Body
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F

Connector Part Information

Harness Type: Body
OEM Connector: 12089526
Service Connector: 13584253
Description: 8-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

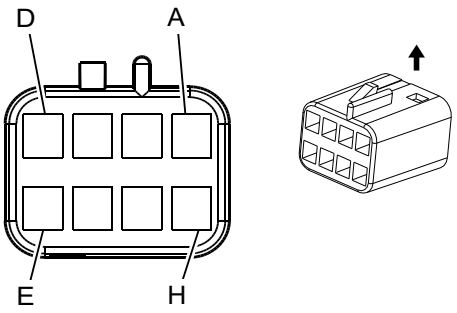
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X403 Body Harness to Body Harness (CARGO)

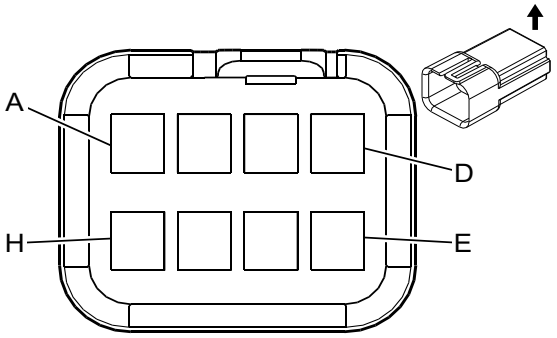
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	BU	7641	I	—	Camera Rear Vision Signal +	A	0.5	BU	7641	II	—
B	0.5	L-BU	7642	I	—	Camera Rear Vision Signal (-)	B	0.5	L-BU	7642	II	—
C	—	—	—	—	—	Not Occupied	C	—	—	—	—	—
D	0.35	BK/WH	351	I	—	Signal Ground	D	0.35	BK/WH	351	II	—
E	0.5	PK	239	I	—	Run/Crank Ignition 1 Voltage	E	0.5	PK	239	II	—
F	0.5	L-GN	24	I	—	Backup Lamp Control	F	0.5	L-GN	24	II	—
G	—	—	—	—	—	Not Occupied	G	—	—	—	—	—
H	0.5	Bare	6799	I	—	Camera Shield Ground	H	0.5	Bare	6799	II	—

cardiagn.com

X403 Body Harness to Body Harness (PASSENGER)



258248



62434

Connector Part Information

Harness Type: Body
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F

Connector Part Information

Harness Type: Body
OEM Connector: 12045688
Service Connector: 13584253
Description: 8-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

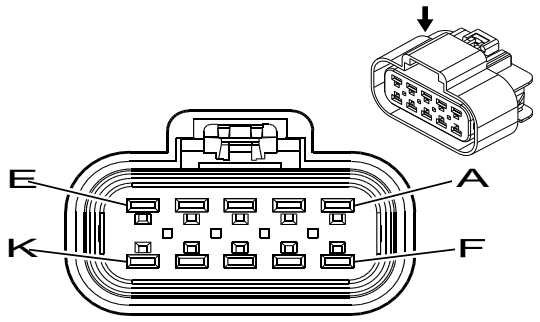
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X403 Body Harness to Body Harness (PASSENGER)

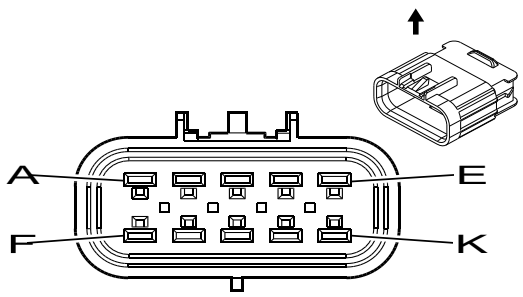
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	BU	7641	I	—	Camera Rear Vision Signal +	A	0.5	BU	7641	II	—
B	0.5	BU	7642	I	—	Camera Rear Vision Signal (-)	B	0.5	BU	7642	II	—
C	—	—	—	—	—	Not Occupied	C	—	—	—	—	—
D	0.35	BK/WH	351	I	—	Signal Ground	D	0.35	BK/WH	351	II	—
E	0.5	PK	239	I	—	Run/Crank Ignition 1 Voltage	E	0.5	PK	239	II	—
F	0.5	L-GN	24	I	—	Backup Lamp Control	F	0.5	L-GN	24	II	—
G	—	—	—	—	—	Not Occupied	G	—	—	—	—	—
H	0.5	Bare	6799	I	—	Camera Shield Ground	H	0.5	Bare	6799	II	—

cardiagn.com

X405 Cutaway Rear Lighting Connector to Chassis Harness



655815



655819

Connector Part Information

Harness Type: Chassis
OEM Connector: 15326660
Service Connector: 88986262
Description: 10-Way F 280 GT Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis
OEM Connector: 15326661
Service Connector: 88986245
Description: 10-Way M 280 GT Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13576356	J-35616-4A (PU)	J-38125-553	15304719	Delphi 19	2	5
II	13576356	J-35616-4A (PU)	J-38125-553	Not Available	Not Available	Not Available	Not Available
III	13575443	J-35616-5 (PU)	J-38125-553	Not Available	Not Available	Not Available	Not Available
IV	13580826	J-35616-5 (PU)	J-38125-553	15304731	Delphi 19	2	5
V	13580826	J-35616-5 (PU)	J-38125-553	15304731	Delphi 19	C	5
VI	19368626	J-35616-5 (PU)	J-38125-553	Not Available	Not Available	Not Available	Not Available

X405 Cutaway Rear Lighting Connector to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A - B	—	—	—	—	—	Not Occupied	A - B	—	—	—	—	—
C	1 0.8	L-BU/ L-BU/	1320 1320	II I	5H4 CUTAWA-Y	CHMSL Control CHMSL Control	C	1 0.8	BU BU	1320 1320	IV V	5H4 CUTAWAY
D	1	YE	618	II	—	Left Rear Turn Signal Lamp Control	D	1	YE	618	IV	—
E	1	D-GN/	619	II	—	Right Rear Turn Signal Lamp Control	E	1 1	GN GN	619 619	IV VI	V4D+UY7 (-V4D/UY7)/(V4D-UY7)/(UY7-V4D)
F	1	BN	2109	II	—	Trailer Park Lamp Control	F	1	BN	2109	IV	—

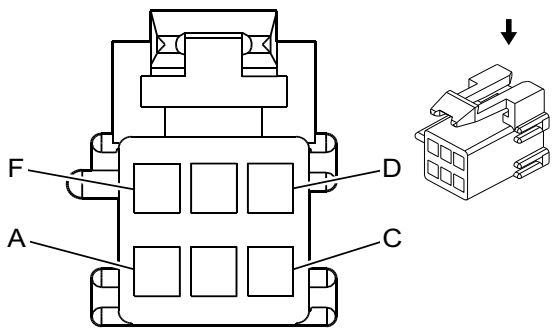
cardiagn.com

X405 Cutaway Rear Lighting Connector to Chassis Harness (cont'd)

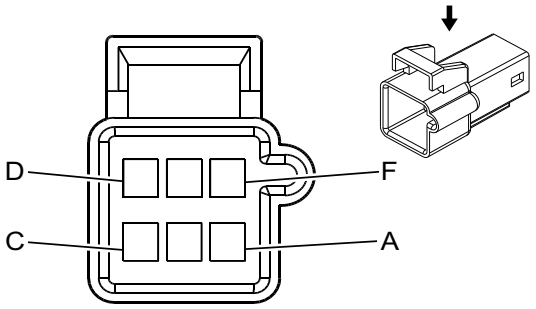
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
G	1	BK	150	II	5H4	Ground	G	3	BK	150	III	—
H	1	WH	1624	II	—	Trailer Backup Lamp Control	H	1	GN	1624	IV	—
J	—	—	—	—	—	Not Occupied	J	—	—	—	—	—
K	0.8	BU/ WH	149	I	—	Courtesy Lamp Control	K	0.8	BU/ WH	149	V	—

cardiagn.com

X407 Auxiliary HVAC Harness to Body Harness



40422



40425

Connector Part Information

Harness Type: Auxiliary HVAC
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
OEM Connector: 12064763
Service Connector: 12101876
Description: 6-Way M 150 Metri-Pack Series (GY)

Terminal Part Information

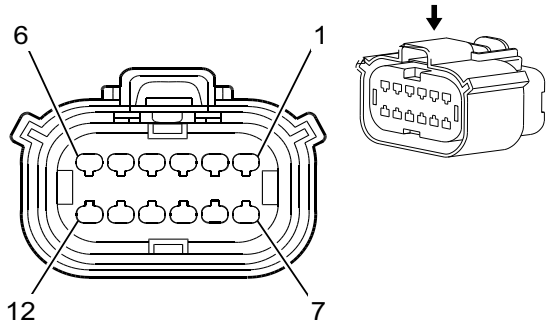
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X407 Auxiliary HVAC Harness to Body Harness

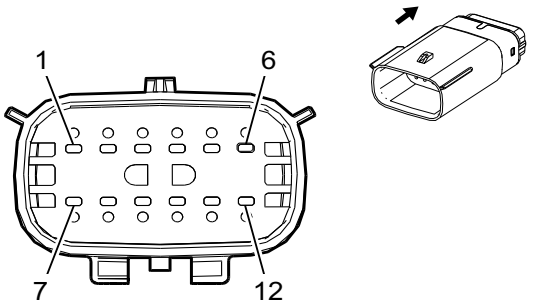
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.35	OG	2775	I	—	Rear Air Temperature Motor Control	A	0.35	OG	2775	II	—
B	0.35	D-BU/	1926	I	—	Auxiliary Blower Motor Low Speed Control	B	0.35	D-BU/	1926	II	—
C	0.35	WH	1924	I	—	Auxiliary Blower Motor High Speed Control	C	0.35	WH	1924	II	—
D	0.35	OG	1925	I	—	Auxiliary Blower Motor Medium Speed Control	D	0.35	OG	1925	II	—
E	0.35	BN	341	I	—	Run Ignition 3 Voltage	E	0.35	BN	341	II	—
F	0.35	GY	2599	I	—	Rear Mode Motor Signal	F	0.35	GY	2599	II	—

cardiagn.com

X408 Rear Bumper Harness to Chassis Harness



1825165



2424959

Connector Part Information

Harness Type: Rear Fascia
OEM Connector: 13653762
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis
OEM Connector: 13534850
Service Connector: 19369242
Description: 12-Way M 150 MX Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	19119395	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	19119440	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

X408 Rear Bumper Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	YE/WH	2377	I	—	Right Rear Middle Object Sensor Signal	1	0.5 0.5	YE/WH YE/WH	2377 2377	II III	LWN -LWN
2	0.5	YE/VT	2378	I	—	Right Rear Corner Object Sensor Signal	2	0.5 0.5	YE/VT YE/VT	2378 2378	II III	LWN -LWN
3	0.5	BK/GY	2379	I	—	Object Sensor Low Reference	3	0.5 0.5	BK/GY BK/GY	2379 2379	II III	LWN -LWN
4	0.5	BN/WH	2374	I	—	Object Sensor Control	4	0.5 0.5	BN/WH BN/WH	2374 2374	II III	LWN -LWN
5	0.5	YE	2375	I	—	Left Rear Corner Object Sensor Signal	5	0.5 0.5	YE YE	2375 2375	II III	LWN -LWN

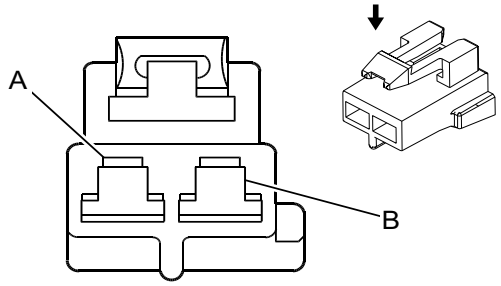
cardiagn.com

X408 Rear Bumper Harness to Chassis Harness (cont'd)

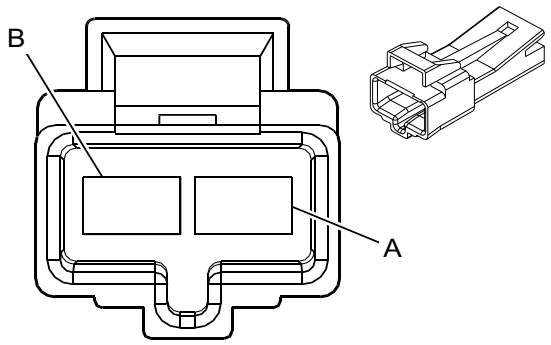
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.5	YE/D-BU	2376	I	—	Left Rear Middle Object Sensor Signal	6	0.5 0.5	YE/D-BU YE/D-BU	2376 2376	II III	LWN -LWN
7	0.5	BK	2150	I	—	Ground	7	0.5	BK	2150	II	—
8	0.5	L-GN/	5060	I	—	Low Speed GMLAN Serial Data	8	0.5	L-GN/	5060	III	—
9	—	—	—	—	—	Not Occupied	9	—	—	—	—	—
10	0.5	GY/YE	5853	I	—	Driver Side Object Detection LED Signal 1	10	0.5	GY/YE	5853	III	—
11	0.5	GY	5861	I	—	Passenger Side Object Detection LED Signal 1	11	0.5	GY	5861	III	—
12	0.5	RD/L-GN	3140	I	—	Battery Positive Voltage	12	0.5	RD/L-GN	3140	II	—

cardiagn.com

X409 Auxiliary HVAC Harness to Body Harness



808706



38284

Connector Part Information

Harness Type: Auxiliary HVAC
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
OEM Connector: 12064750
Service Connector: 19368866
Description: 2-Way M 480 Metri-Pack Series (BK)

Terminal Part Information

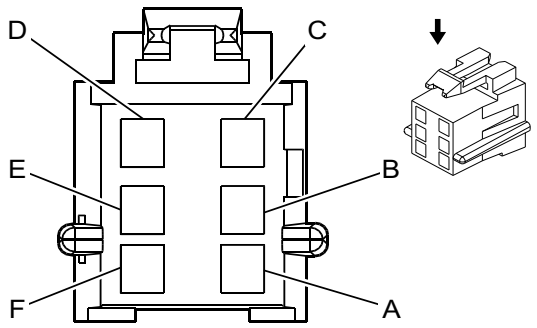
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-40 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-41 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X409 Auxiliary HVAC Harness to Body Harness

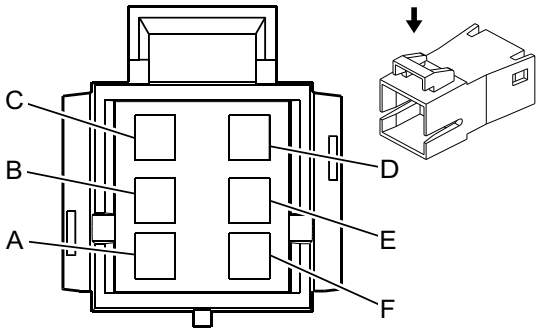
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	5	RD/WH	1740	I	—	Battery Positive Voltage	A	5	RD/WH	1740	II	—
B	5	BK	850	I	C69	Ground	B	5 5	BK BK	450 850	II II	ENC C36/C69

cardiagn.com

X410 Left Rear Lamp Harness to Body Harness



62456



39689

Connector Part Information

Harness Type: Left Rear Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F

Connector Part Information

Harness Type: Body
OEM Connector: 12064754
Service Connector: 19368739
Description: 6-Way M 280 Metri-Pack Series (BK)

Terminal Part Information

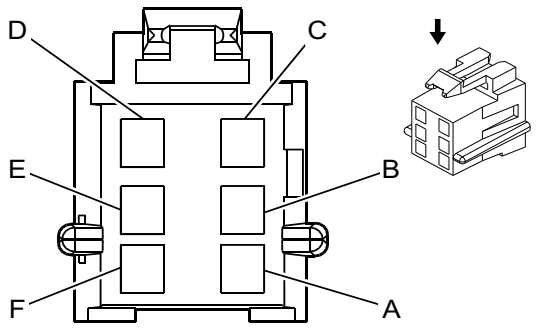
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X410 Left Rear Lamp Harness to Body Harness

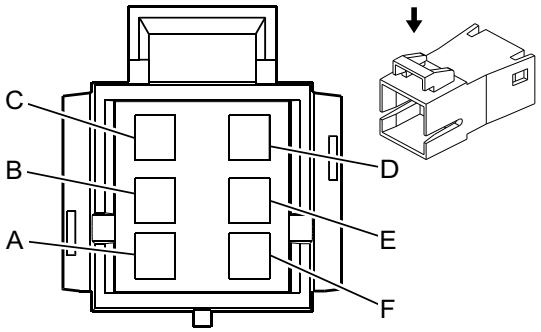
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	BN	2509	I	—	Left Rear Park Lamp Control	A	0.5	BN	2509	II	—
B	1	YE	618	I	—	Left Rear Turn Signal Lamp Control	B	1	YE	618	II	—
C	—	—	—	—	—	Not Occupied	C	—	—	—	—	—
D	0.8	BK	850	I	—	Ground	D	0.8	BK	850	II	—
E	—	—	—	—	—	Not Occupied	E	—	—	—	—	—
F	0.8	L-GN	24	I	—	Backup Lamp Control	F	0.8	L-GN	24	II	—

cardiagn.com

X411 Left Rear Cargo Door Harness to Body Harness



62456



39689

Connector Part Information

Harness Type: Left Rear Cargo Door
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
OEM Connector: 12064754
Service Connector: 19368739
Description: 6-Way M 280 Metri-Pack Series (BK)

Terminal Part Information

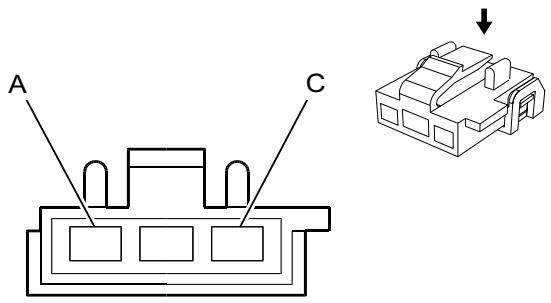
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X411 Left Rear Cargo Door Harness to Body Harness

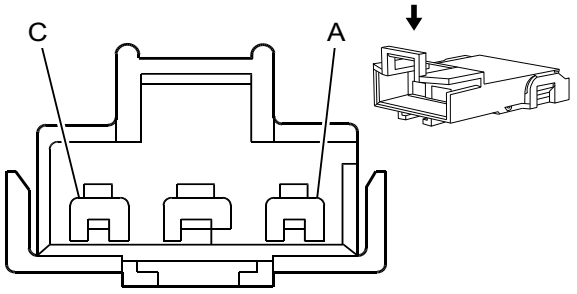
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	1	TN	1859	I	—	Left Rear Midrange Speaker Control (+)	A	1	TN	1859	II	—
B	1	WH	1959	I	—	Left Rear Midrange Speaker (-) Low Reference	B	1	WH	1959	II	—
C	—	—	—	—	—	Not Occupied	C	—	—	—	—	—
D	5	PU/	293	I	—	Rear Defog Element Control	D	5	PU/	293	II	—
E	3	BK	850	I	—	Ground	E	3	BK	850	II	—
F	—	—	—	—	—	Not Occupied	F	—	—	—	—	—

cardiagn.com

X412 Rear Cargo Door Harness to Body Harness



333042



1884161

Connector Part Information

Harness Type: Rear Cargo Door
OEM Connector: 12020014
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Weather Pack Series (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 12045681
Service Connector: 19368884
Description: 3-Way M 280, 480 Metri-Pack Series (BK)

Terminal Part Information

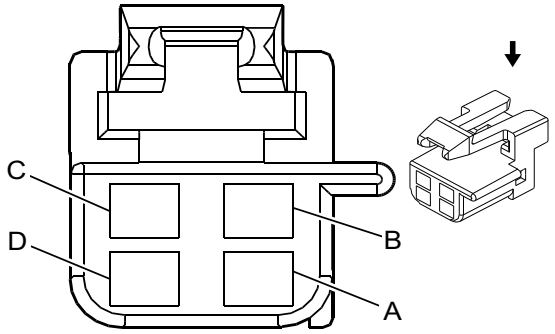
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-40 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	J-35616-41 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
IV	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X412 Rear Cargo Door Harness to Body Harness

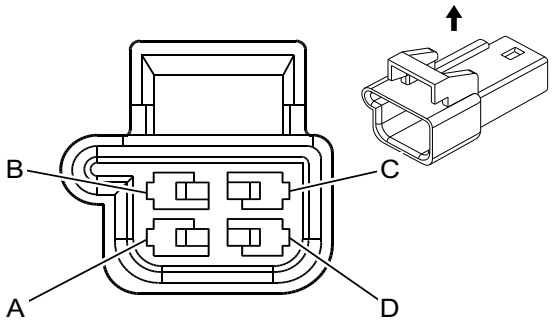
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	BN	2509	II	—	Left Rear Park Lamp Control	A	0.5	BN	2509	IV	—
B	5	PU/	293	I	—	Rear Defog Element Control	B	5	PU/	293	III	—
C	3 0.5	BK BK	1050 1050	II II	C49 -C49	Ground Ground	C	3	BK	1050	IV	—

cardiagn.com

X415 Rear Speaker Harness to Body Harness



130637



40399

Connector Part Information

Harness Type: Rear Speaker
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
OEM Connector: 12065658
Service Connector: 19368719
Description: 4-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

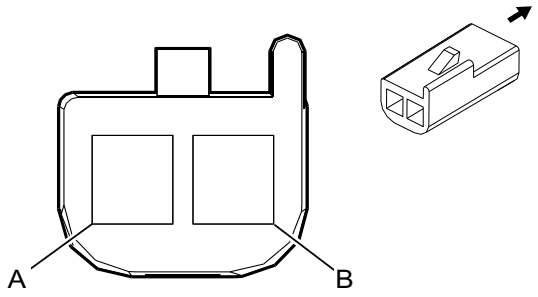
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X415 Rear Speaker Harness to Body Harness

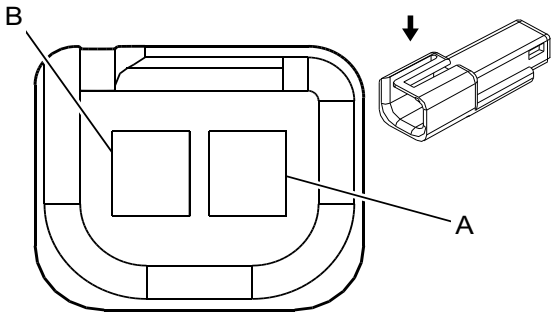
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	1	WH	1959	I	—	Left Rear Midrange Speaker (-) Low Reference	A	1	WH	1959	II	—
B	1	TN	1859	I	—	Left Rear Midrange Speaker Control (+)	B	1	TN	1859	II	—
C	1	OG	1955	I	—	Right Rear Midrange Speaker (-) Low Reference	C	1	OG	1955	II	—
D	1	TN	1855	I	—	Right Rear Midrange Speaker Control (+)	D	1	TN	1855	II	—

cardiagn.com

X419 Center High Mounted Stop Lamp Harness to Body Harness



82383



1664595

Connector Part Information

Harness Type: Center High Mounted Stop Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F

Connector Part Information

Harness Type: Body
OEM Connector: 12048457
Service Connector: 13584278
Description: 2-Way M 150 Metri-Pack Series (BK)

Terminal Part Information

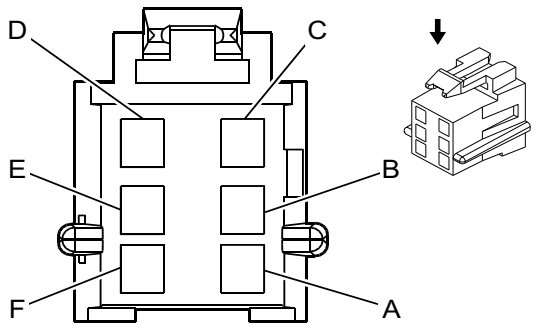
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X419 Center High Mounted Stop Lamp Harness to Body Harness

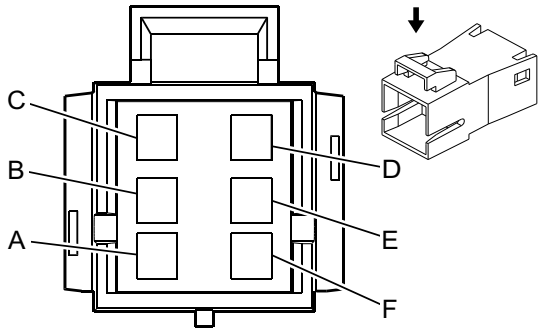
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.8	L-BU	1320	I	—	CHMSL Control	A	0.8	L-BU	1320	II	—
B	0.8	BK	850	I	—	Ground	B	0.8	BK	850	II	—

cardiagn.com

X420 Right Rear Lamp Harness to Body Harness



62456



39689

Connector Part Information

Harness Type: Right Rear Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F

Connector Part Information

Harness Type: Body
OEM Connector: 12064754
Service Connector: 19368739
Description: 6-Way M 280 Metri-Pack Series (BK)

Terminal Part Information

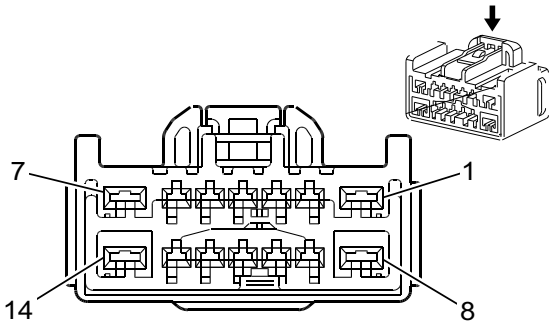
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X420 Right Rear Lamp Harness to Body Harness

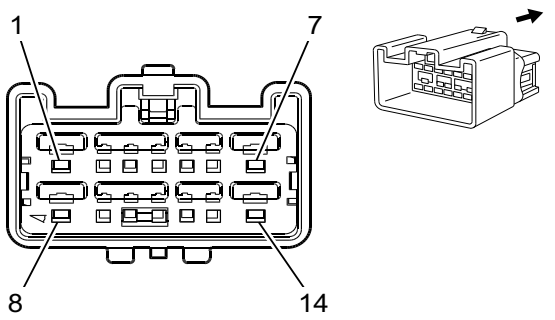
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	BN	2609	I	—	Right Rear Park Lamp Control	A	0.5	BN	2609	II	—
B	1	D-GN	619	I	—	Right Rear Turn Signal Lamp Control	B	1	D-GN	619	II	—
C	—	—	—	—	—	Not Occupied	C	—	—	—	—	—
D	0.8	BK	1050	I	—	Ground	D	0.8	BK	1050	II	—
E	—	—	—	—	—	Not Occupied	E	—	—	—	—	—
F	0.8	L-GN	24	I	—	Backup Lamp Control	F	0.8	L-GN	24	II	—

cardiagn.com

X421 Body Harness to Headliner Harness



823290



1283905

Connector Part Information

Harness Type: Body
OEM Connector: 10847017
Service Connector: 88956524
Description: 14-Way F 1.5, 2.8 Series (L-GY)

Connector Part Information

Harness Type: Headliner
OEM Connector: 10846900
Service Connector: 88956523
Description: 14-Way M 1.5, 2.8 Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575832	J-35616-4A (PU)	J-38125-11A	7116-4112-02	Yazaki 9	C	D
II	13575839	J-35616-35 (VT)	J-38125-11A	7116-4111-02	Yazaki 9	E	A
III	13575850	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
IV	13575850	J-35616-2A (GY)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
V	13575823	J-35616-5 (PU)	J-38125-11A	7114-4111-02	Yazaki 9	E	A
VI	13575824	J-35616-5 (PU)	J-38125-11A	7114-4112-02	Yazaki 9	C	D
VII	19119395	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
VIII	19119780	J-35616-3 (GY)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
IX	19119842	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
X	19369740	J-35616-5 (PU)	J-38125-212	1326029-8	Lear 17	A	4

X421 Body Harness to Headliner Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.8	D-BU/WH	149	II	—	Courtesy Lamp Control	1	0.8	D-BU/WH	149	V	—
2	0.35	BN/WH	230	IV	—	Instrument Panel Lamp Dimming Control	2	0.35	BN/WH	230	IX	—

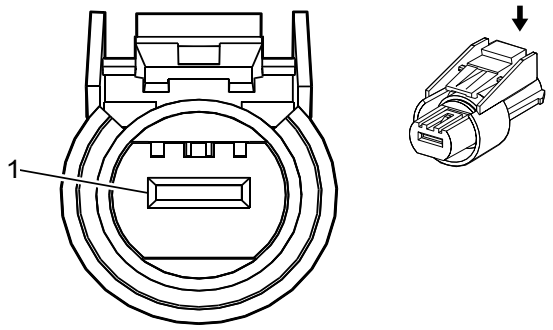
cardiagn.com

X421 Body Harness to Headliner Harness (cont'd)

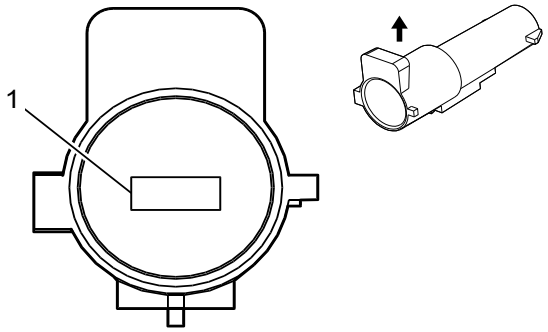
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
3	0.5	WH	1924	IV	—	Auxiliary Blower Motor High Speed Control	3	0.5	WH	1924	VII	—
4	0.5	OG	1925	IV	—	Auxiliary Blower Motor Medium Speed Control	4	0.5	OG	1925	VII	—
5	0.5	D-BU/	1926	IV	—	Auxiliary Blower Motor Low Speed Control	5	0.5	D-BU/	1926	VII	—
6	0.35	BN	341	IV	—	Run Ignition 3 Voltage	6	0.35	BN	341	IX	—
7	3	BN	541	I	—	Run Ignition 3 Voltage	7	2	BN	541	X	—
8	0.8	D-BU/WH	149	II	—	Courtesy Lamp Control	8	0.8	D-BU/WH	149	V	—
9	0.5	BN	5263	IV	—	Dual Logic Module Rear Temperature Signal	9	0.5	BN	5263	VII	—
10	0.8	OG	1732	III	—	Electronic Control Unit 12V Reference 3	10	0.8	OG	1732	VIII	—
11	0.5	PU/WH	5264	IV	—	Dual Logic Module Rear Mode Signal	11	0.5	PU/WH	5264	VII	—
12	0.5	PK/BK	5265	IV	—	Dual Logic Module Rear Control Signal	12	0.5	PK/BK	5265	VII	—
13	0.8	BK	1050	III	—	Ground	13	0.8	BK	1050	VIII	—
14	3	BK	1050	I	—	Ground	14	2	BK	1050	VI	—

cardiagn.com

X460 Chassis Harness to Trailer Provision Harness



814659



814660

Connector Part Information

Harness Type: Chassis
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
OEM Connector: 15326119
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way M 800 Metri-Pack Series, Sealed (BK)

Terminal Part Information

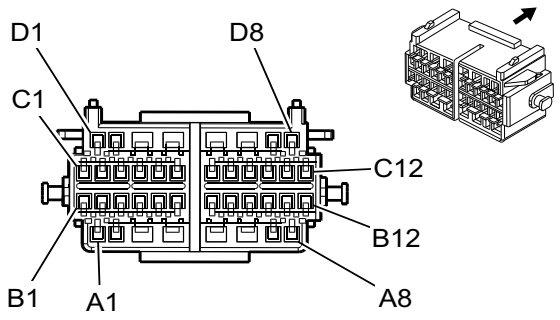
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-44 (YE)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-45 (YE)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X460 Chassis Harness to Trailer Provision Harness

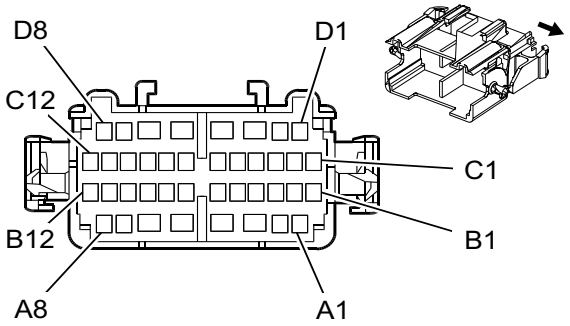
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	8	WH	22	I	—	Trailer Ground	1	8	WH	22	II	—

cardiagn.com

X500 Driver Door Harness to Body Harness



1538788



1715230

Connector Part Information

Harness Type: Driver Door
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
OEM Connector: 15416976
Service Connector: 89047197
Description: 40-Way M 150, 280 GT Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Avail-able	No Tool Required	Not Available	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
IV	13575500	J-35616-3 (GY)	J-38125-553	15304702	Delphi 19	E	C
V	13575502	J-35616-3 (GY)	J-38125-553	15304702	Delphi 19	E	4
VI	13575505	J-35616-5 (PU)	J-38125-553	15304722	Delphi 8	E	C
VII	13575510	J-35616-5 (PU)	J-38125-553	15304724	Delphi 8	A	D
VIII	19177683	J-35616-3 (GY)	J-38125-553	15304702	Delphi 19	2	4
IX	—	—	—	Not Available	Not Avail-able	Not Avail-able	Not Avail-able

X500 Driver Door Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A1	0.35	TN	126	II	—	Left Front Door Open Switch Signal	A1	0.35	TN	126	IV	—
A2 - A4	—	—	—	—	—	Not Occupied	A2 - A4	—	—	—	—	—

cardiagn.com

X500 Driver Door Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A5	3 0.35	BK BK	450 450	III III	AU3+A31/ DEB/DEE/ DE5 AU3-A31- DEB- DEE-DE5	Ground Ground	A5	3	BK	450	VII	—
A6	0.35	BN/ WH	230	III	—	Instrument Panel Lamp Dimming Control	A6	0.35	BN/ WH	230	VI	—
A7	0.8	OG	2267	II	—	Mirror Heating Element Control	A7	0.8	OG	2267	VIII	—
A8	0.35	PU/ WH	889	II	—	Right Mirror Motor Down Control	A8	0.5	PU/ WH	889	V	—
B1	0.35	OG/ BK	781	II	—	Driver Door Lock Switch Unlock Signal	B1	0.35	OG/ BK	781	IV	—
B2	0.35	PK/ BK	780	II	—	Driver Door Lock Switch Lock Signal	B2	0.35	PK/ BK	780	IV	—
B3	0.35	GY/ BK	745	II	—	Left Front Door Ajar Switch Signal	B3	0.35	GY/ BK	745	IV	—
B4	0.35	BK	450	II	—	Ground	B4	0.35	BK	450	IV	—
B5 - B6	—	—	—	—	—	Not Occupied	B5 - B6	—	—	—	—	—
B7	0.8	TN	694	II	—	Driver Door Lock Actuator Unlock Control	B7	0.8	TN	694	VIII	—
B8	0.8	GY	295	II	—	Door Lock Actuator Lock Control	B8	0.8	GY	295	VIII	—
B9 - B1- 1	—	—	—	—	—	Not Occupied	B9 - B11	—	—	—	—	—
B1- 2	0.8	D-BU	1857	II	—	Left Front Midrange Speaker Control (+)	B1- 2	0.8	D-BU	1857	VIII	—
C1	0.5	PU/ WH	6628	II	—	Left Front Side Impact Sensing Module Low Reference	C1	0.5	PU/ WH	6628	V	—
C2	0.5	WH	2132	II	—	Left Front Side Impact Sensing Module Signal	C2	0.5	WH	2132	V	—
C3 - C6	—	—	—	—	—	Not Occupied	C3 - C6	—	—	—	—	—

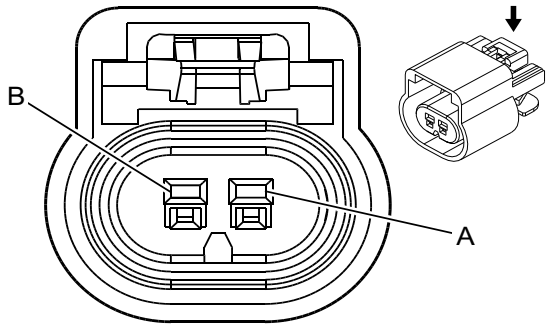
cardiagn.com

X500 Driver Door Harness to Body Harness (cont'd)

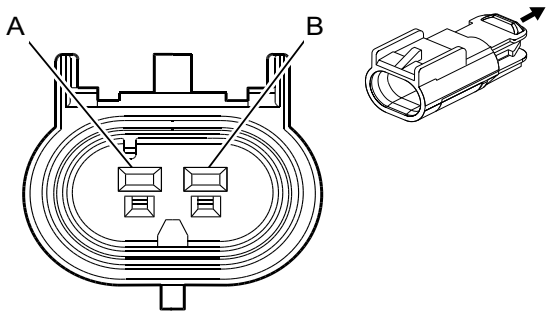
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
C7	0.5 0.5	GY/YE L-BU/WH	5853 1314	I II	UFT -UFT	Driver Side Object Detection LED Signal 1 Left Front Turn Signal Lamp Control	C7	0.5 0.5	GY/YE L-BU/WH	5853 1314	IX V	UFT -UFT
C8	0.5	RD/WH	4340	II	—	Battery Positive Voltage	C8	0.5	RD/WH	4340	V	—
C9-C1-1	—	—	—	—	—	Not Occupied	C9-C1-1	—	—	—	—	—
C1-2	0.8	L-BU	1957	II	—	Left Front Midrange Speaker (-) Low Reference	C1-2	0.8	L-BU	1957	VIII	—
D1-D3	—	—	—	—	—	Not Occupied	D1-D3	—	—	—	—	—
D4	3	TN	167	III	—	Power Window Master Switch Right Front Down Signal	D4	3	TN	167	VII	—
D5	3	L-BU/	166	III	—	Power Window Master Switch Right Front Up Signal	D5	3	L-BU/	166	VII	—
D6	3	D-GN/	1001	III	—	Retained Accessory Power Ignition	D6	3	D-GN/	1001	VII	—
D7	0.35	BN/WH	1498	II	—	Right Mirror Motor Up Control	D7	0.5	BN/WH	1498	V	—
D8	0.35	OG/WH	881	II	—	Right Mirror Motor Right Control	D8	0.5	OG/WH	881	V	—

cardiagn.com

X501 Air Bag Jumper Harness to Driver Door Harness



523630



681875

Connector Part Information

Harness Type: Air Bag Jumper
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: Driver Door
OEM Connector: 13510099
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 150 GT Series, Sealed (BK)

Terminal Part Information

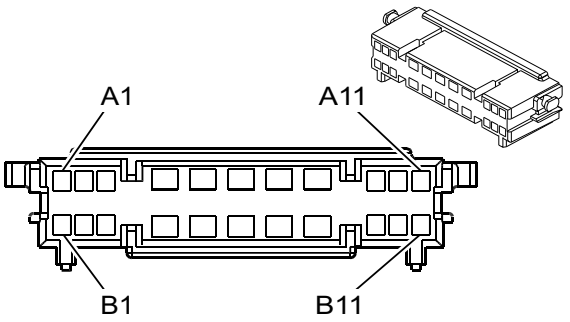
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X501 Air Bag Jumper Harness to Driver Door Harness

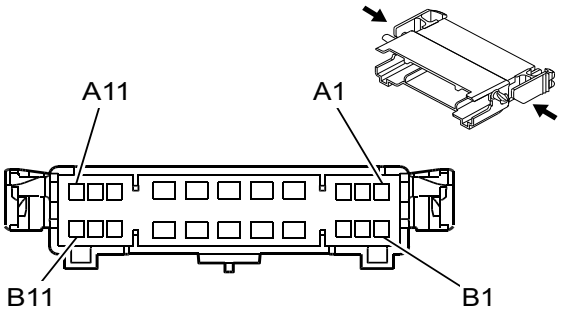
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	PU/WH	6628	I	—	Left Front Side Impact Sensing Module Low Reference	A	0.5	PU/WH	6628	II	—
B	0.5	WH	2132	I	—	Left Front Side Impact Sensing Module Signal	B	0.5	WH	2132	II	—

cardiagn.com

X600 Passenger Door Harness to Body Harness



524205



524211

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 15326063
Service Connector: Service by Harness - See Part Catalog
Description: 22-Way F 150, 280 GT Series (GY)

Connector Part Information

Harness Type: Body
OEM Connector: 15326064
Service Connector: 15326064
Description: 22-Way M 150, 280 GT Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	Not Available	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	J-35616-4A (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
IV	13575500	J-35616-3 (GY)	J-38125-553	15304702	Delphi 19	E	C
V	13575502	J-35616-3 (GY)	J-38125-553	15304702	Delphi 19	E	4
VI	13575505	J-35616-5 (PU)	J-38125-553	15304722	Delphi 8	E	C
VII	13575507	J-35616-5 (PU)	J-38125-553	15304724	Delphi 8	2	A
VIII	13575510	J-35616-5 (PU)	J-38125-553	15304724	Delphi 8	A	D
IX	13575511	J-35616-5 (PU)	J-38125-553	15304722	Delphi 8	E	C
X	19177683	J-35616-3 (GY)	J-38125-553	15304702	Delphi 19	2	4
XI	—	—	—	Not Available	Not Available	Not Available	Not Available

X600 Passenger Door Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A1	0.8	OG	1853	II	—	Right Front Midrange Speaker Control (+)	A1	0.8	OG	1853	X	—

cardiagn.com

X600 Passenger Door Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A2	0.8	TN	294	II	—	Door Lock Actuator Unlock Control	A2	0.8	TN	294	X	—
A3	0.8	OG	2267	II	—	Mirror Heating Element Control	A3	0.8	OG	2267	X	—
A4	3	L-BU	166	III	—	Power Window Master Switch Right Front Up Signal	A4	3	L-BU	166	VIII	—
A5	0.8 0.35	BK BK	1850 1850	III III	AU3+A31/ DEB/DEE/ DE5/UFT AU3-A31- DEB- DEE-DE5	Ground Ground	A5	0.8	BK	1850	VII	—
A6	0.35	BN/ WH	1498	III	—	Right Mirror Motor Up Control	A6	0.5	BN/ WH	1498	IX	—
A7	0.35	OG/ WH	881	III	—	Right Mirror Motor Right Control	A7	0.5	OG/ WH	881	IX	—
A8	0.35	TN/ WH	746	III	—	Right Front Door Ajar Switch Signal	A8	0.35	TN/ WH	746	VI	—
A9	0.35	BK	1850	II	—	Ground	A9	0.35	BK	1850	IV	—
A1- 0	0.5	D-GN	2134	II	—	Right Front Side Impact Sensing Module Signal	A1- 0	0.5	D-GN	2134	V	—
A1- 1	0.35	L-BU	244	II	—	Passenger Door Lock Switch Lock Control	A11	0.35	L-BU	244	IV	—
B1	0.8	D-GN	1953	II	—	Right Front Midrange Speaker (-) Low Refer- ence	B1	0.8	D-GN	1953	X	—
B2	0.8	GY	295	II	—	Door Lock Actuator Lock Control	B2	0.8	GY	295	X	—
B3	0.5 0.5	GY D- BU/ WH	5861 1315	I II	UFT -UFT	Passenger Side Object Detection LED Signal 1 Right Front Turn Signal Lamp Control	B3	0.5 0.5	GY D- BU/ WH	5861 1315	XI V	UFT -UFT
B4	3	TN	167	III	—	Power Window Master Switch Right Front Down Signal	B4	3	TN	167	VIII	—

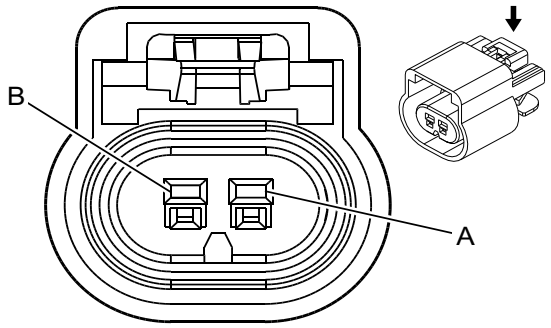
cardiagn.com

X600 Passenger Door Harness to Body Harness (cont'd)

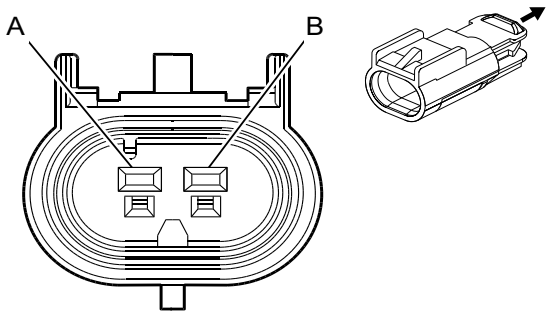
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
B5	3	D-GN/	1001	III	—	Retained Accessory Power Ignition	B5	3	D-GN/	1001	VIII	—
B6	0.35	BN/WH	230	III	—	Instrument Panel Lamp Dimming Control	B6	0.35	BN/WH	230	VI	—
B7	0.35	PU/WH	889	III	—	Right Mirror Motor Down Control	B7	0.5	PU/WH	889	IX	—
B8	0.35	L-GN/	1177	III	—	Right Front Door Open Switch Signal	B8	0.35	L-GN/	1177	VI	—
B9	—	—	—	—	—	Not Occupied	B9	—	—	—	—	—
B1-0	0.5	WH/BK	6629	II	—	Right Front Side Impact Sensing Module Low Reference	B1-0	0.5	WH/BK	6629	V	—
B1-1	0.35	D-BU	245	II	—	Passenger Door Lock Switch Unlock Control	B11	0.35	D-BU	245	IV	—

cardiagn.com

X601 Air Bag Jumper Harness to Passenger Door Harness



523630



681875

Connector Part Information

Harness Type: Air Bag Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 13510099
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 150 GT Series, Sealed (BK)

Terminal Part Information

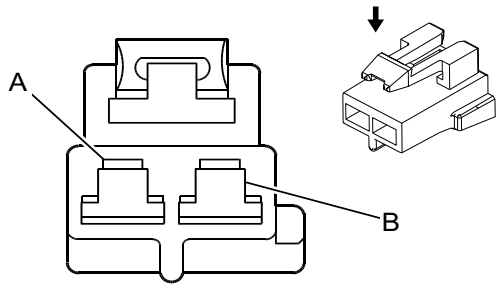
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X601 Air Bag Jumper Harness to Passenger Door Harness

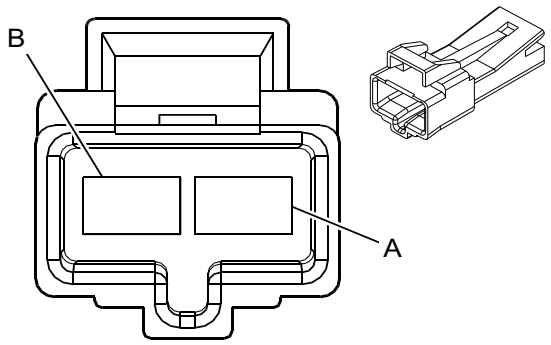
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	0.5	VT/ WH	6629	I	—	Right Front Side Impact Sensing Module Low Reference	A	0.5	WH/ BK	6629	II	—
B	0.5	WH/	2134	I	—	Right Front Side Impact Sensing Module Signal	B	0.5	D-GN	2134	II	—

cardiagn.com

X901 Defogger Jumper Harness to Left Rear Cargo Door Harness



808706



38284

Connector Part Information

Harness Type: Rear Window Defogger
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: Left Rear Cargo Door
OEM Connector: 12064750
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 480 Metri-Pack Series (BK)

Terminal Part Information

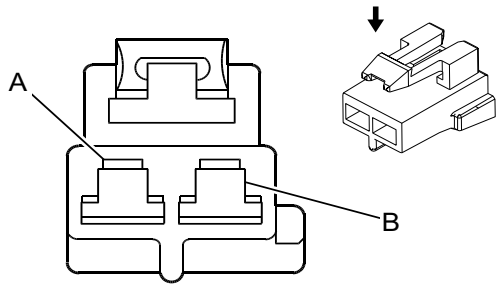
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-40 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-40 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	J-35616-41 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X901 Defogger Jumper Harness to Left Rear Cargo Door Harness

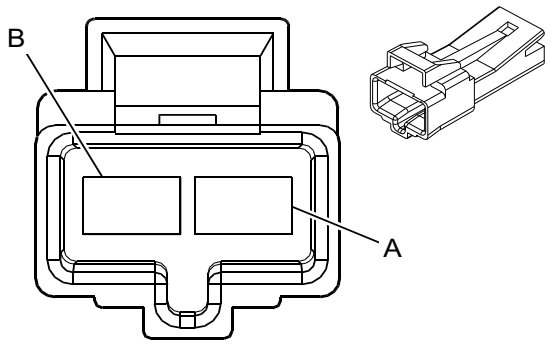
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	5	PU/	293	I	—	Rear Defog Element Control	A	5	PU/	293	III	—
B	3	BK	850	I	—	Ground	B	3	BK	850	II	—

cardiagn.com

X902 Defogger Jumper Harness to Right Rear Cargo Door Harness



808706



38284

Connector Part Information

Harness Type: Defogger Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F

Connector Part Information

Harness Type: Rear Cargo Door
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	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-41 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-40 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	J-35616-41 (BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X902 Defogger Jumper Harness to Right Rear Cargo Door Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	5	PU/	293	I	—	Rear Defog Element Control	A	5	PU/	293	III	—
B	3	BK	1050	I	—	Ground	B	3	BK	1050	II	—

cardiagn.com

Wiring Systems and Power Management

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 *Retained Accessory Power Description and Operation on page 6-668* 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

cardiagn.com

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.

cardiagn.com