General Motors Upfitter Integration



BODY BUILDER MANUAL

FOR

2018

CHEVROLET COLORADO/GMC CANYON

ELECTRICAL SECTION

General Motors Upfitter Integration

Note to User:
As part of our mission to provide an up-to-date website that includes detailed Body Builder Manuals, Technical Bulletins, and Best Practice Manuals, we are now using sectional excerpts directly from the General Motors Service Information publications for our Electrical Body Builder Manuals.

You will note that the section numbers are non-sequential as we have provided only those that are believed to be the most pertinent to the Upfitter community and best suited to their needs.*

This new usage of the Service Information provides the opportunity for us to remain consistent with the changes that take place throughout the model year and to provide you updated information in a more timely fashion.

**** If you would like to have access to all of the electrical Service Information, please apply for a subscription from ACDelco at http://acdelcotechconnect.com/html/tss_tech_esi.jsp***

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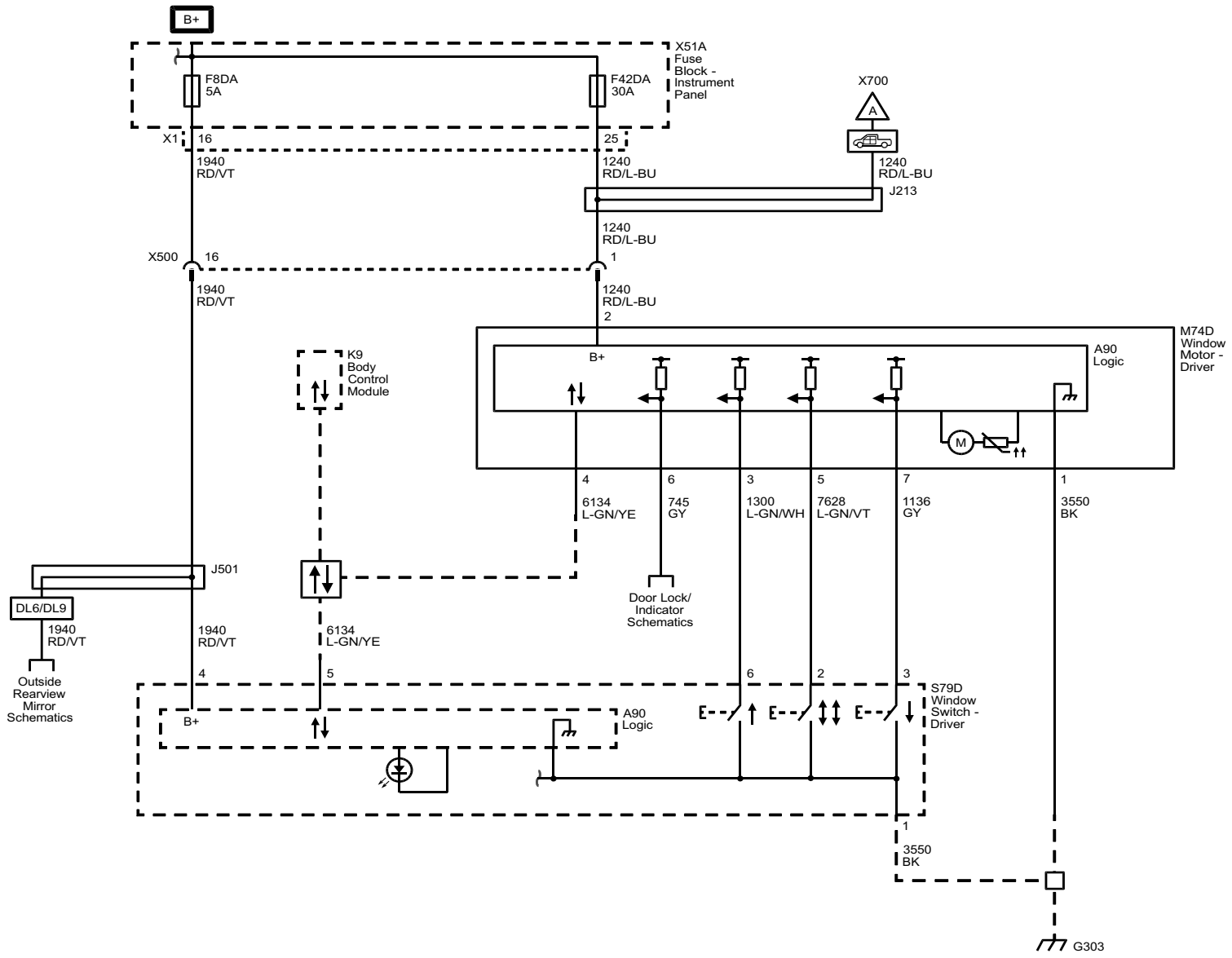
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Fixed and Moveable Windows

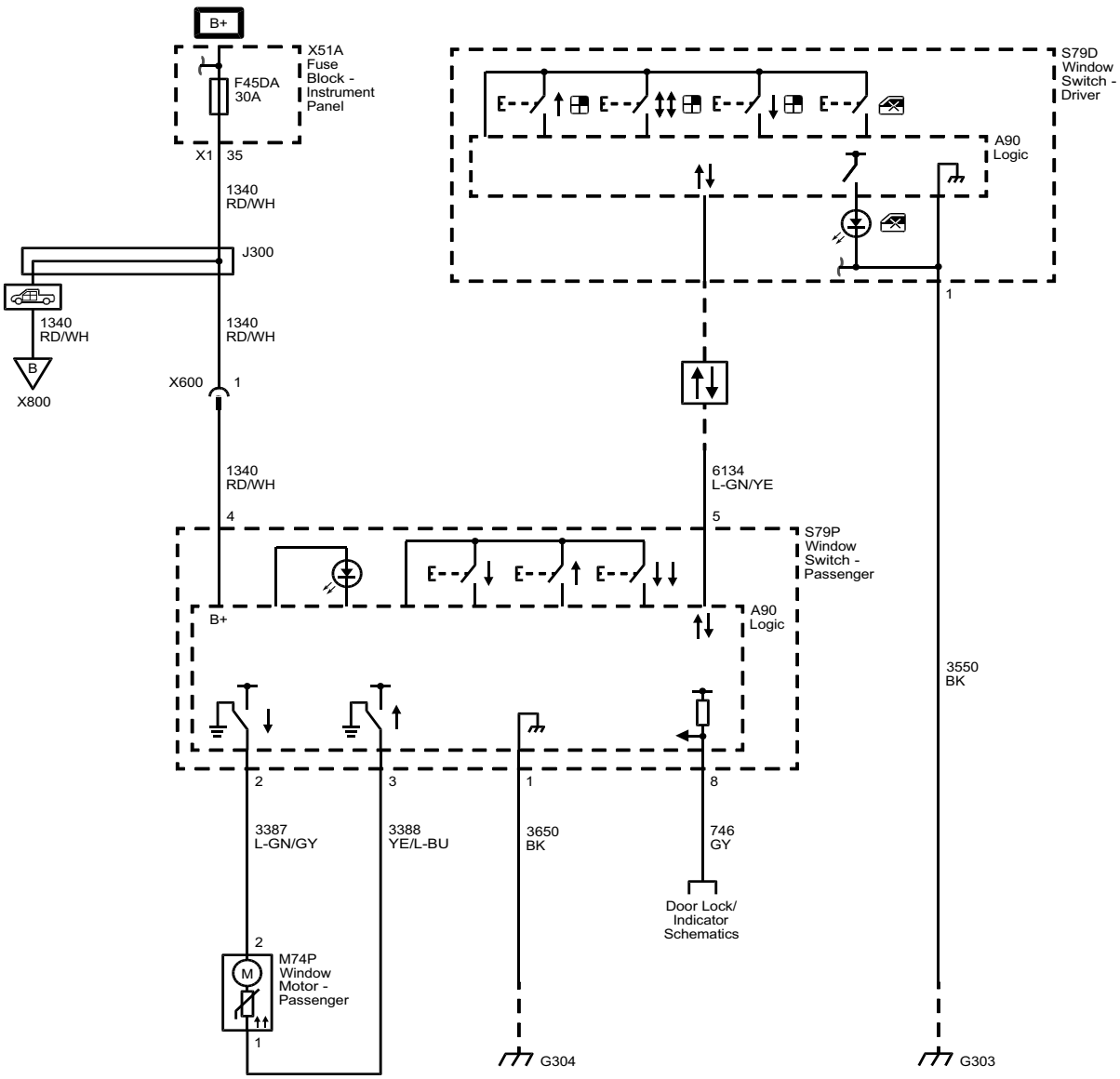
Schematic and Routing Diagrams

Moveable Window Schematics (Driver Door)

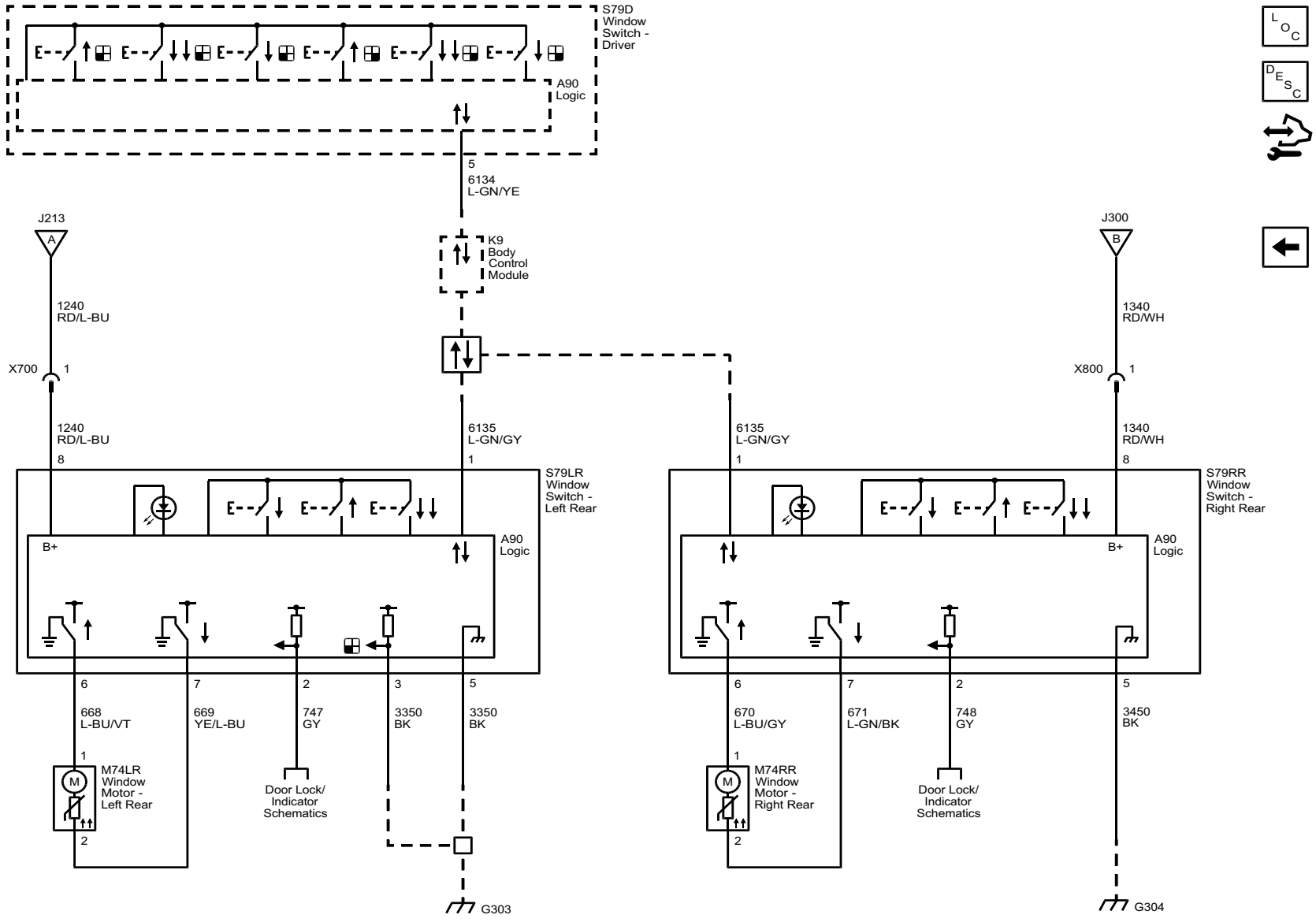


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Moveable Window Schematics (Passenger Door)

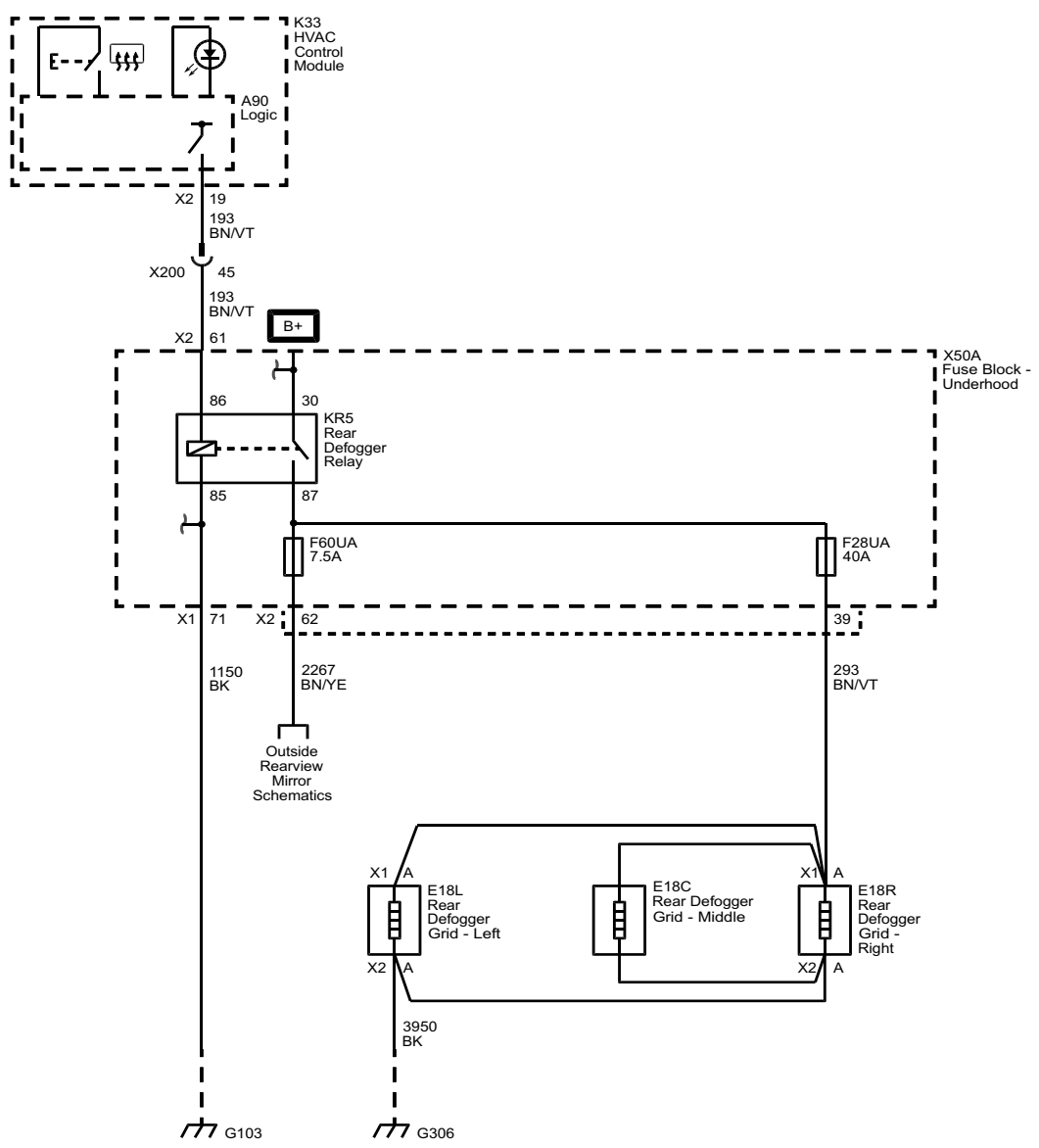


Moveable Window Schematics (Rear Doors)



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Defogger Schematics (Defogger (C49))



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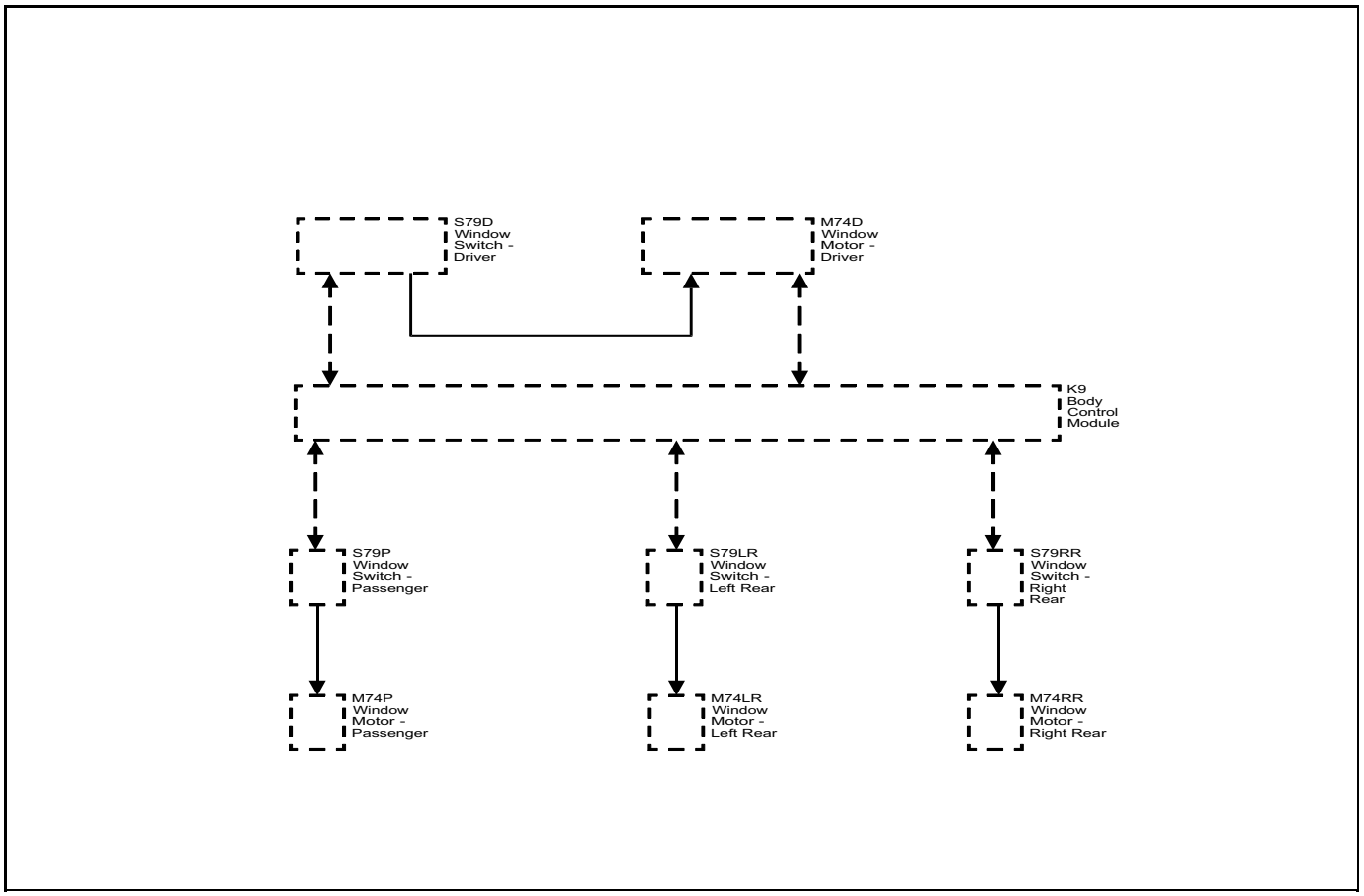
Description and Operation

Power Windows Description and Operation

Power Windows System Components

The power window system consists of the following components:

- Driver window switch
- Passenger window switch
- Left rear window switch
- Right rear window switch
- Right rear door latch
- Left rear door latch
- Window motors in each of the doors
- 30A Fuse
- Body control module (BCM)



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Driver Express Up and Express Down Power Window Motor

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

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

Passenger, Left Rear and Right Rear Express Down Window Motors

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

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

Lockout Switch Feature

The driver window switch contains a window lockout switch, when the driver presses the window lockout switch, a serial data message is sent to the BCM which will send a disable command to the rear window switches, the rear window switches will then ignore all functions when a passenger uses the rear window switch. The rear window motor commands will still function normally when the driver uses the appropriate switches on the driver window switch.

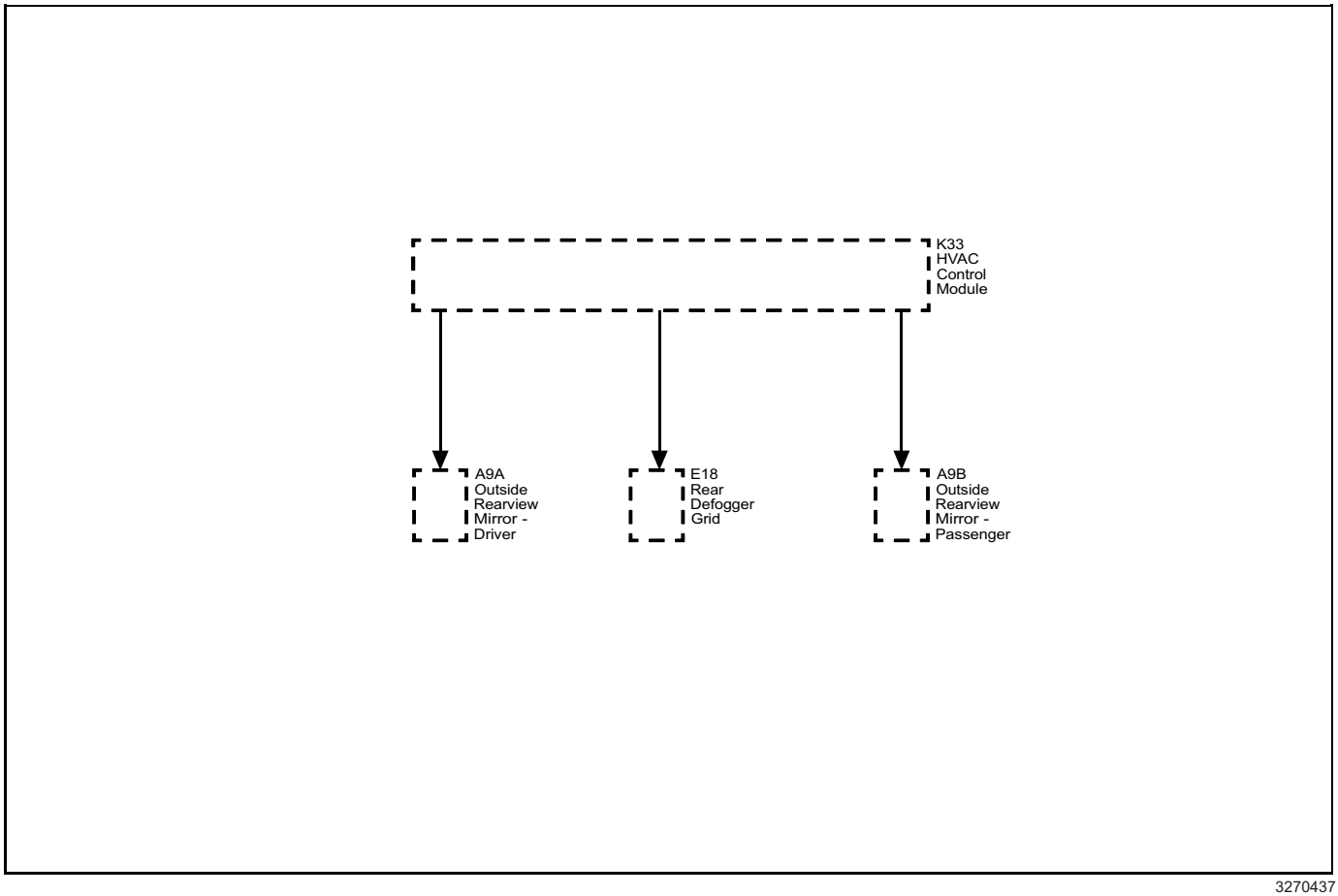
Rear Window Defogger Description and Operation

Rear Window Defogger System Components

The rear window defogger system consists of the following components:

- HVAC control module
- Rear defogger relay
- Rear defogger grid
- 40A fuse

Rear Window Defogger Block Diagram



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Rear Window Defogger Operation

The rear defog control system utilizes a single zone backlight design, driven with a single relay configuration. Additionally, up to two outside rear view mirrors can be heated if equipped. A switch for the customer to control the system is provided within the HVAC control module, also included in the HVAC control module is an indicator to inform the customer with the current state of the system. The system is only operational when engine is running or during remote start or the vehicle is ON/RUN (Hybrid/EV).

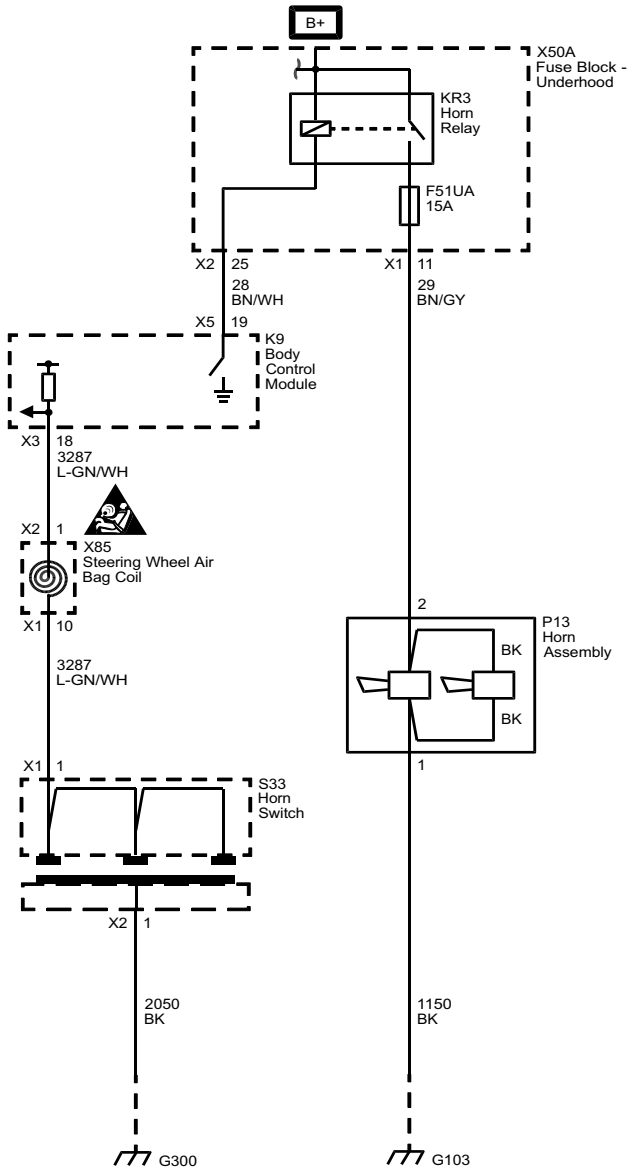
Pressing the heated rear window switch on the HVAC control module causes the HVAC control module to provide voltage to the coil side of the rear defogger relay, this will energize the relay causing the relay switch contacts to close allowing B+ voltage to flow through the rear defogger grid control circuit to the rear defogger grid.

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

Horns and Pedestrian Alerts

Schematic and Routing Diagrams

Horn Schematics (Horns)



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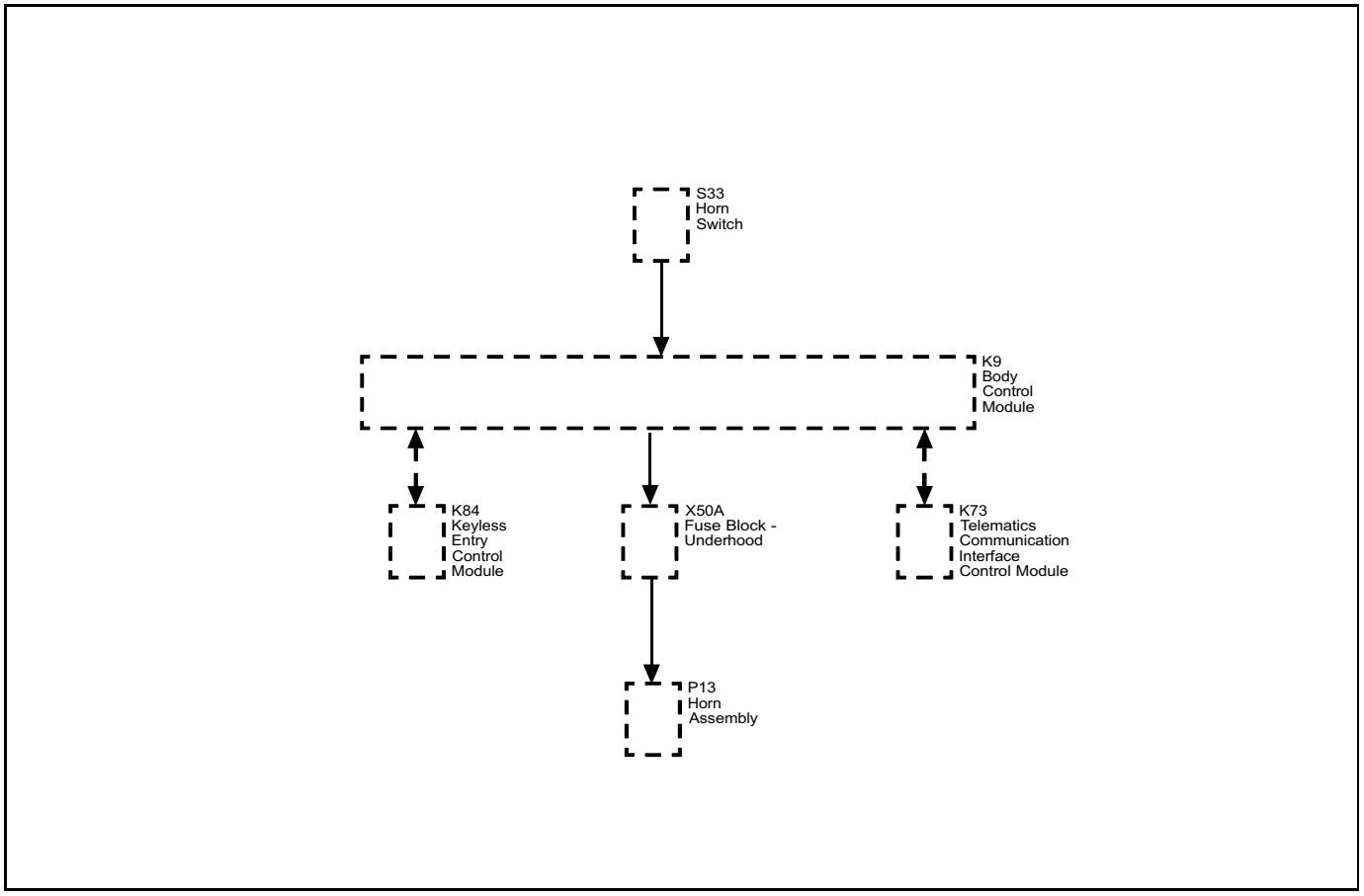
Description and Operation

Horns System Description and Operation

System Description

The horn system consists of the following components:

- HORN fuse
- Horn relay
- Horn switch
- Horn assembly
- Body control module (BCM)



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System Operation

The vehicle horn system is activated under the following conditions:

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

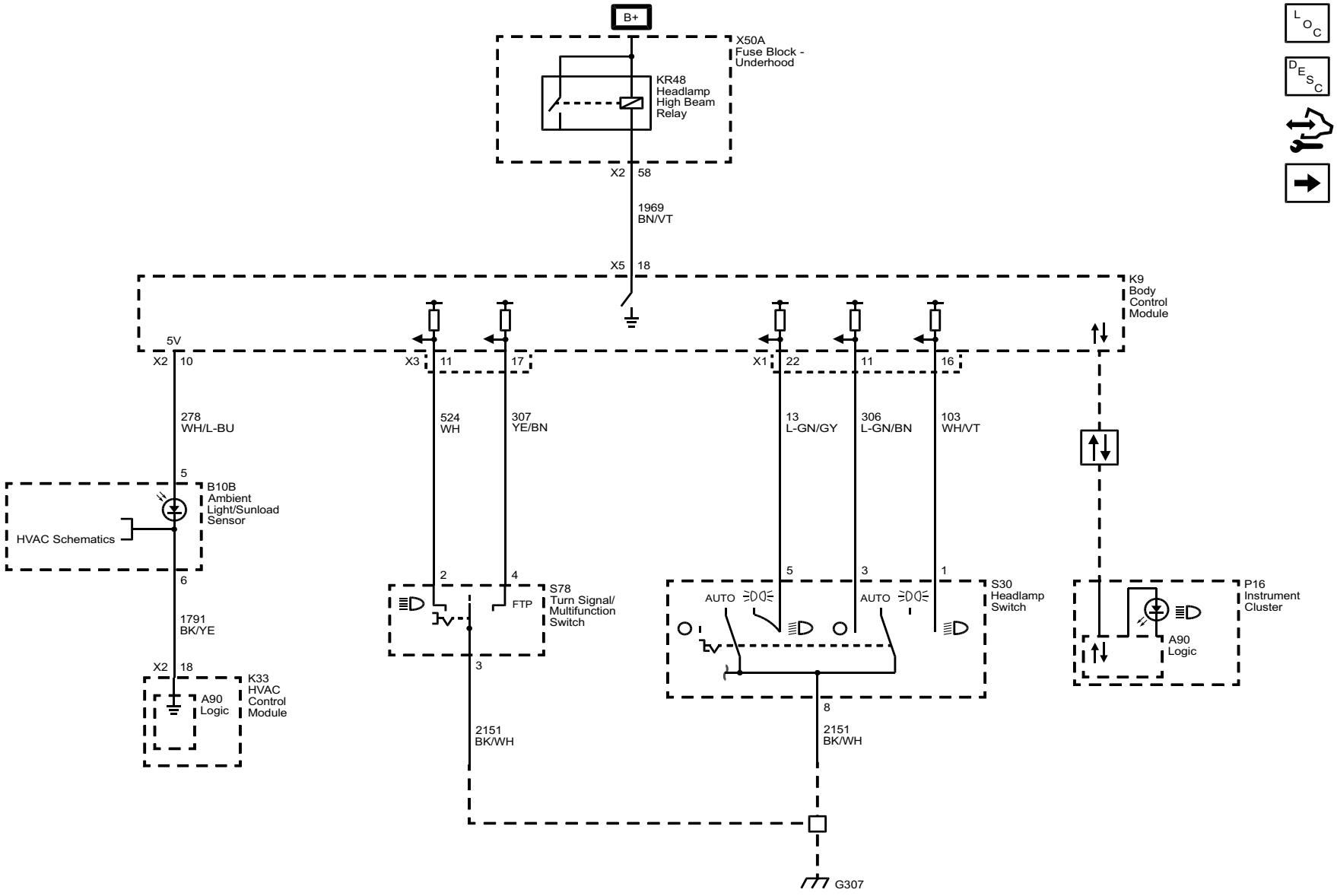
Circuit Operation

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

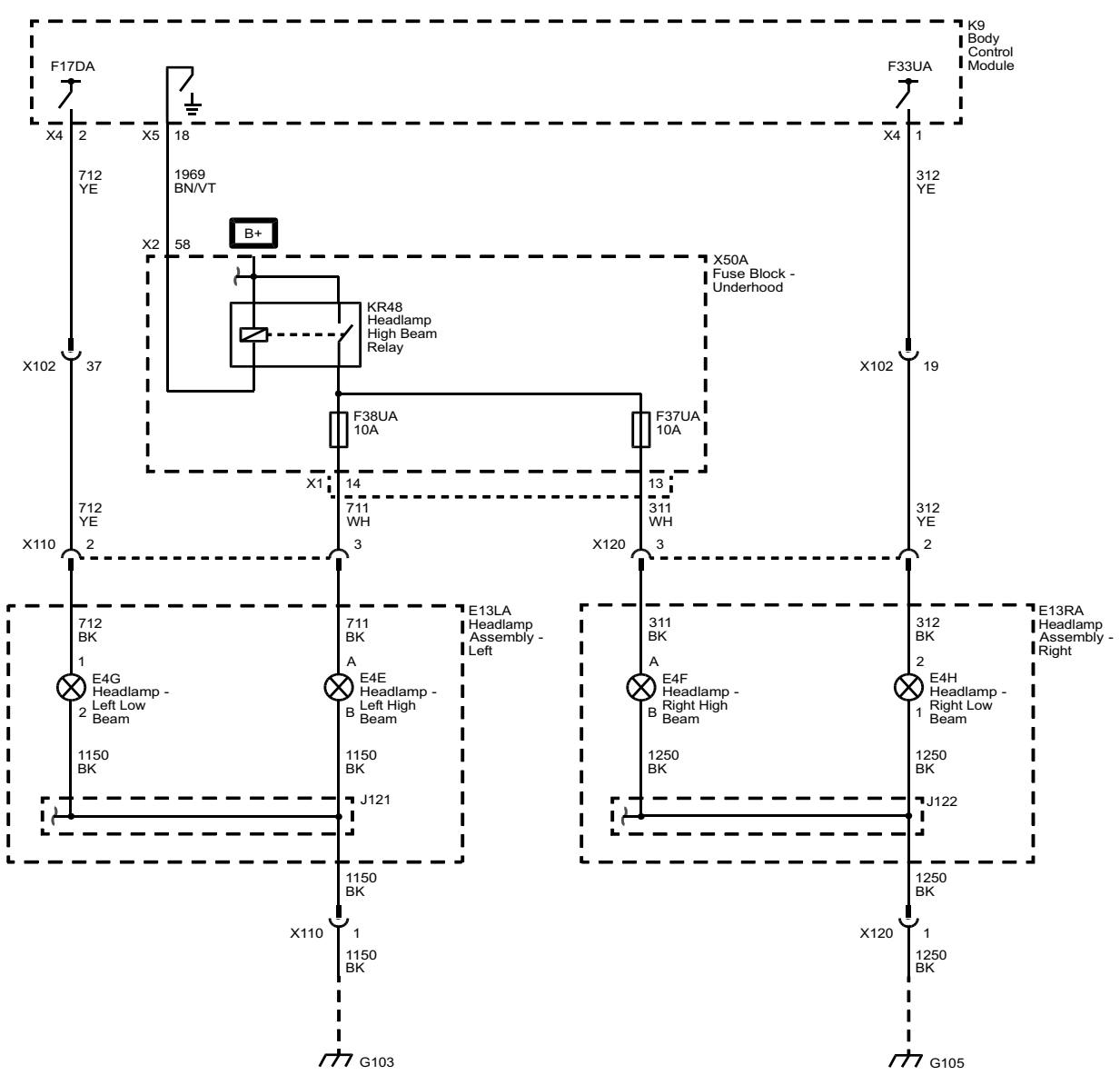
Lighting

Schematic and Routing Diagrams

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

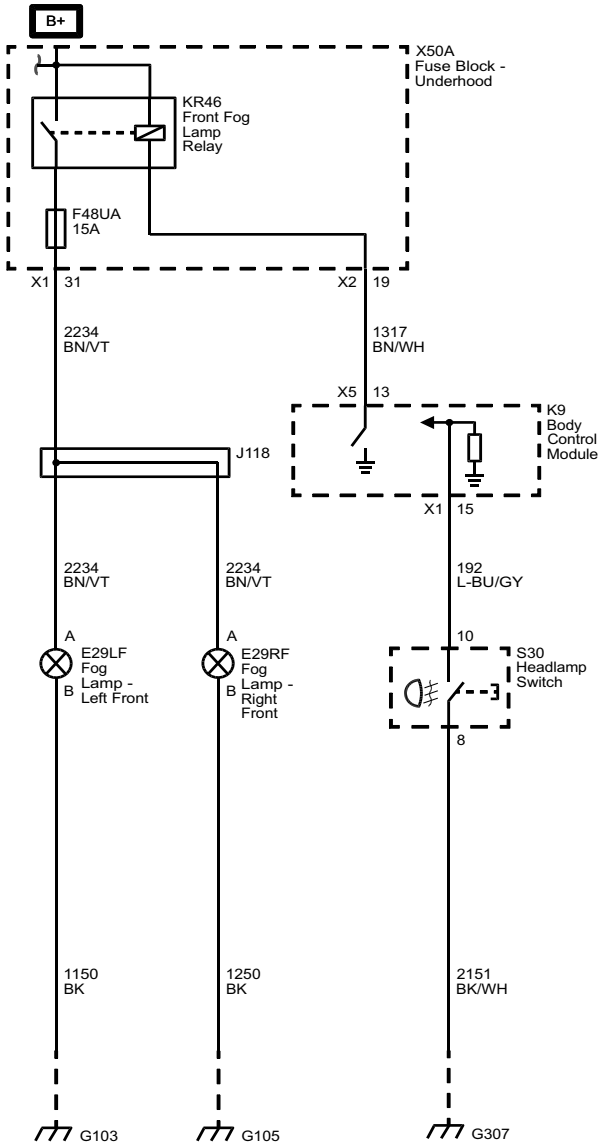


Headlights/Daytime Running Lights (DRL) Schematics (Headlamps)

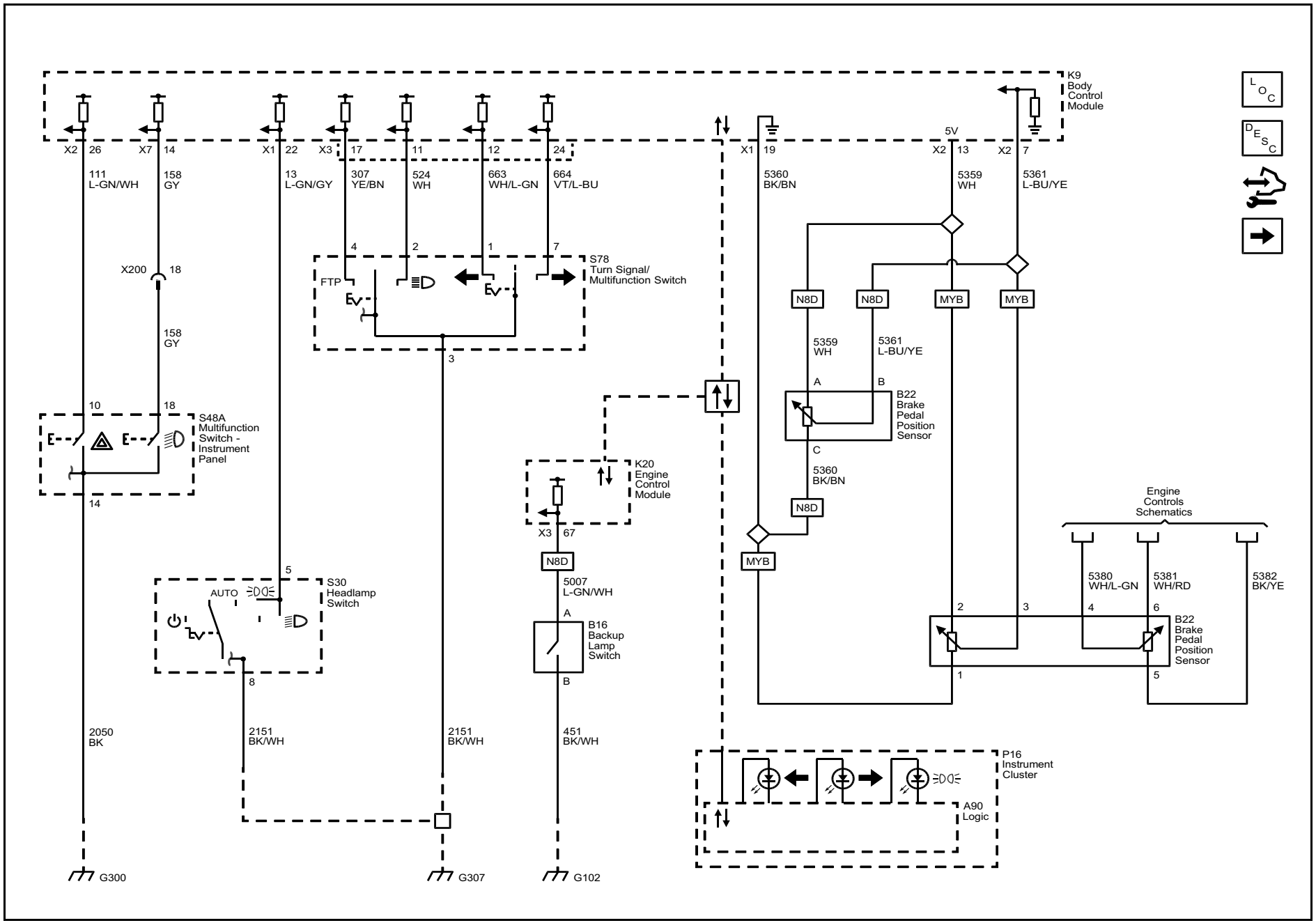


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Fog Lights Schematics (Fog Lamps (T3U))

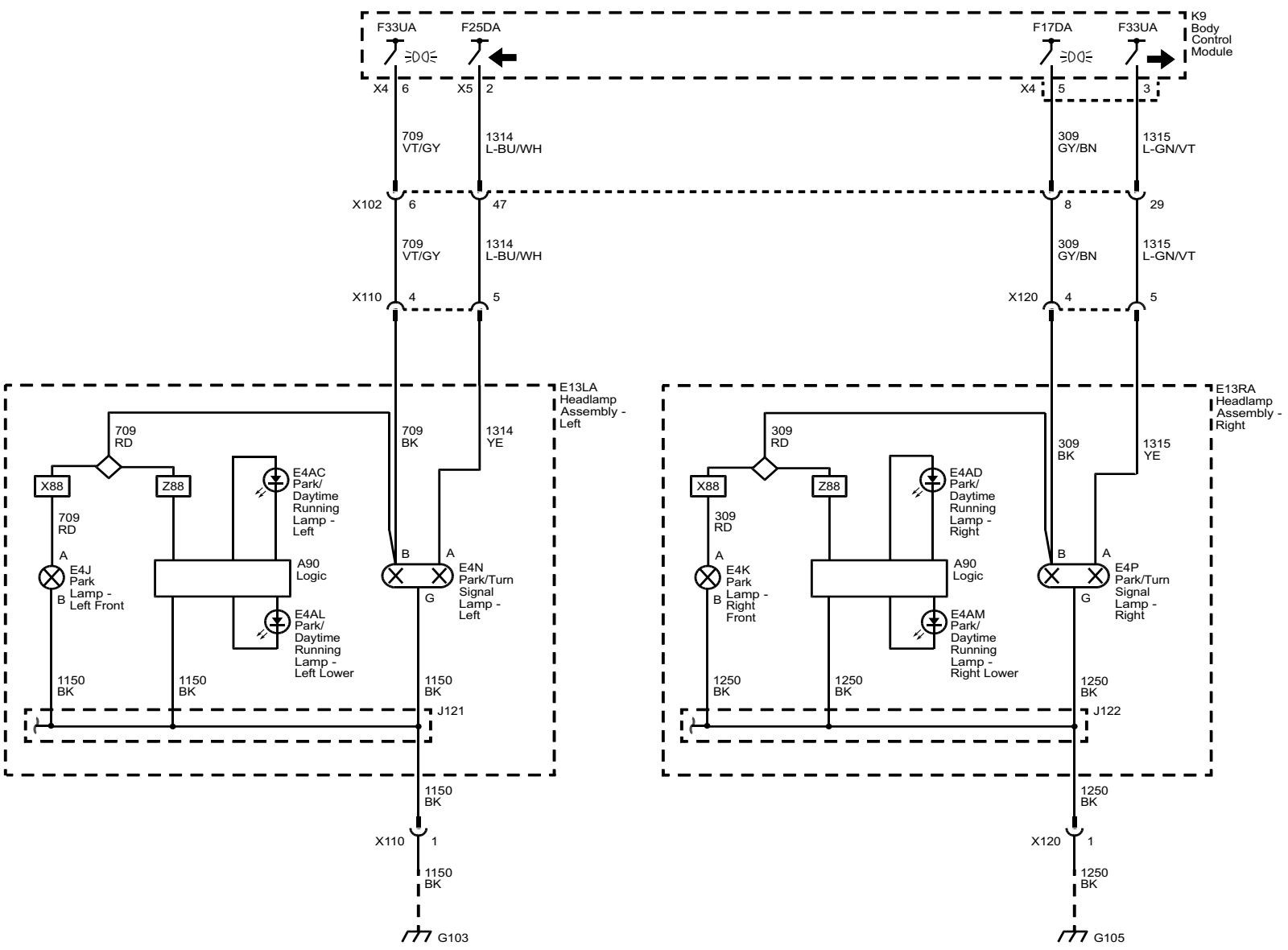


Exterior Lights Schematics (Controls and Indicators)



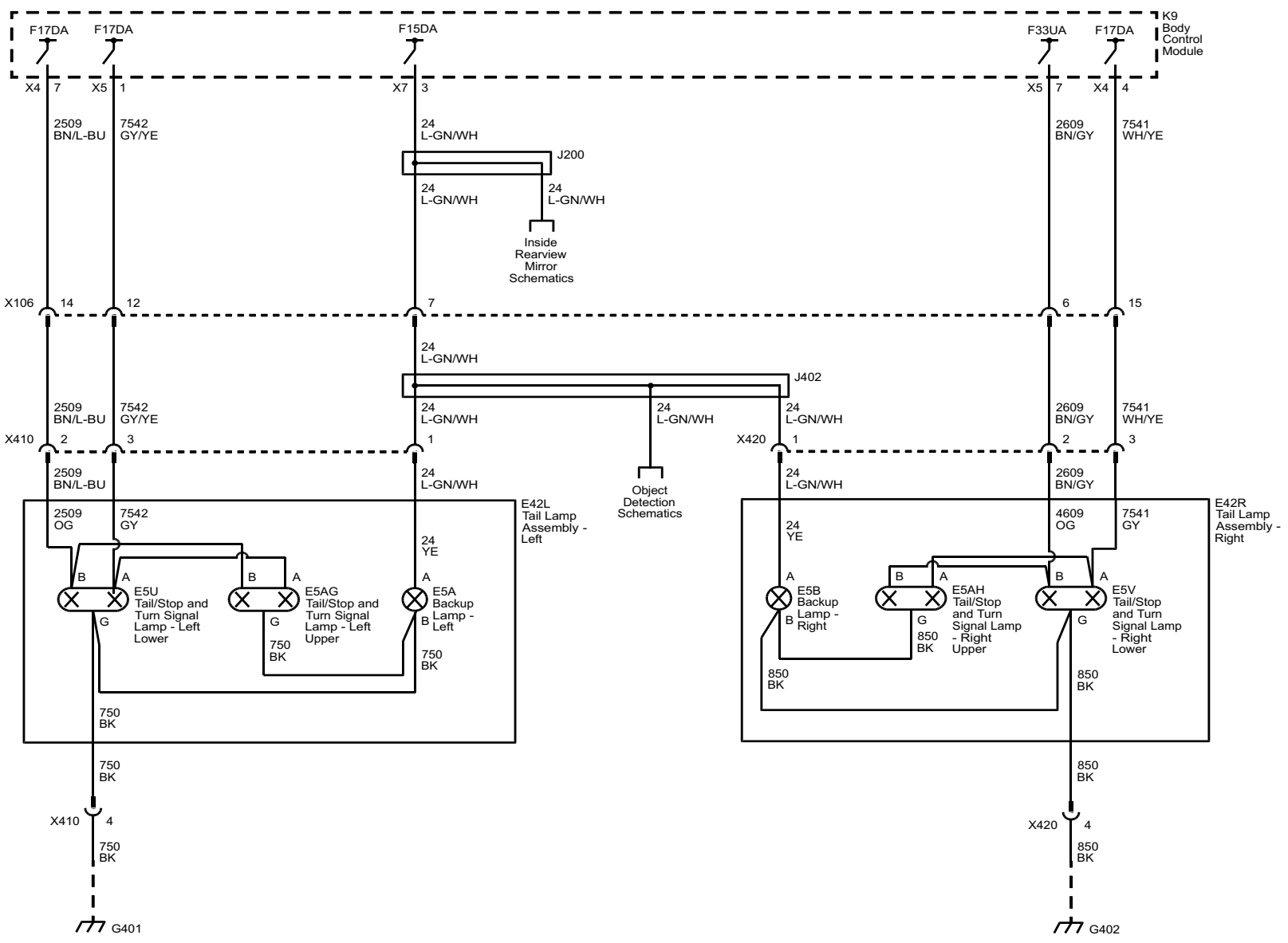
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Exterior Lights Schematics (Park, Side Marker and Front Turn Lamps)



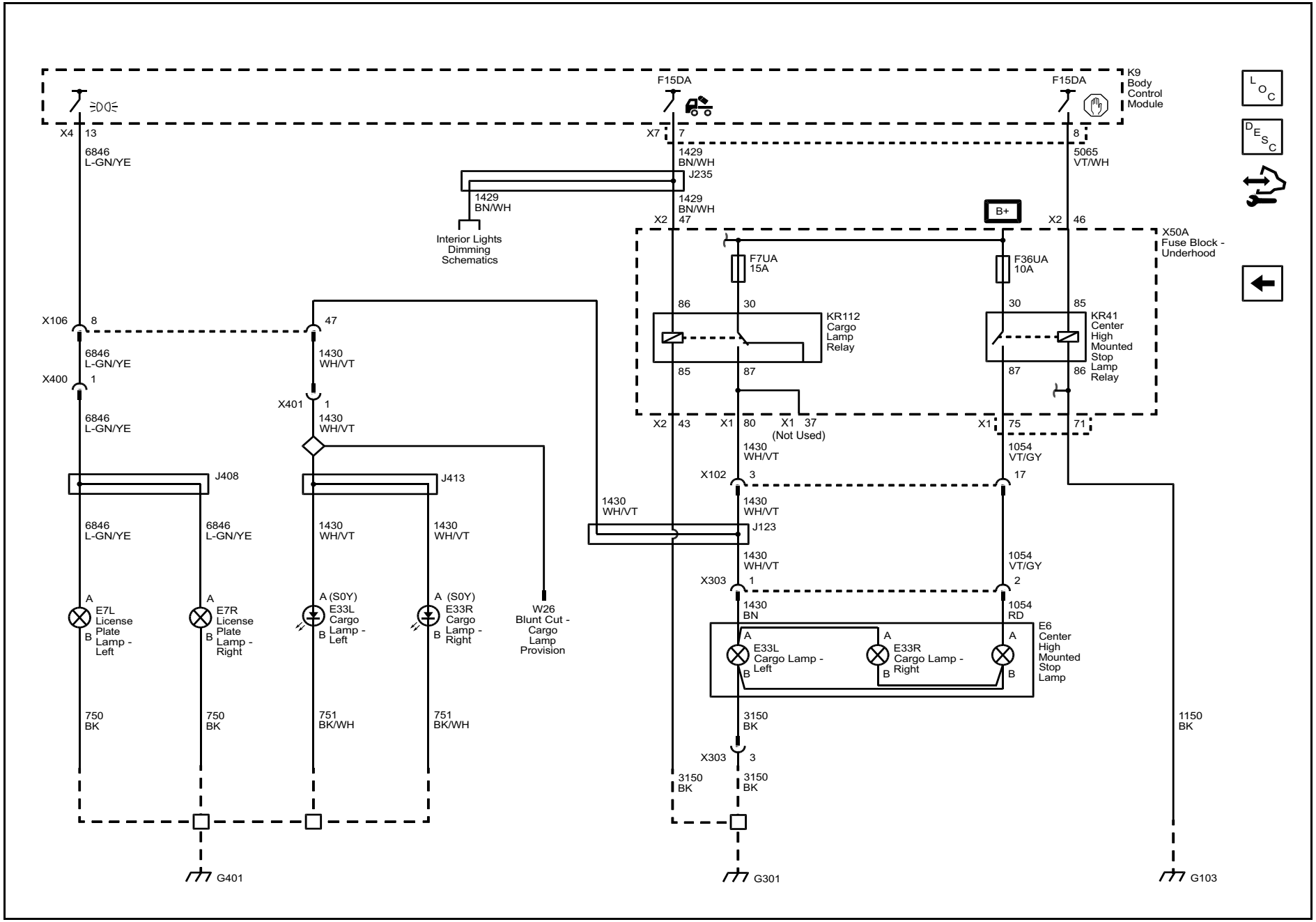
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Exterior Lights Schematics (Tail Lamps)



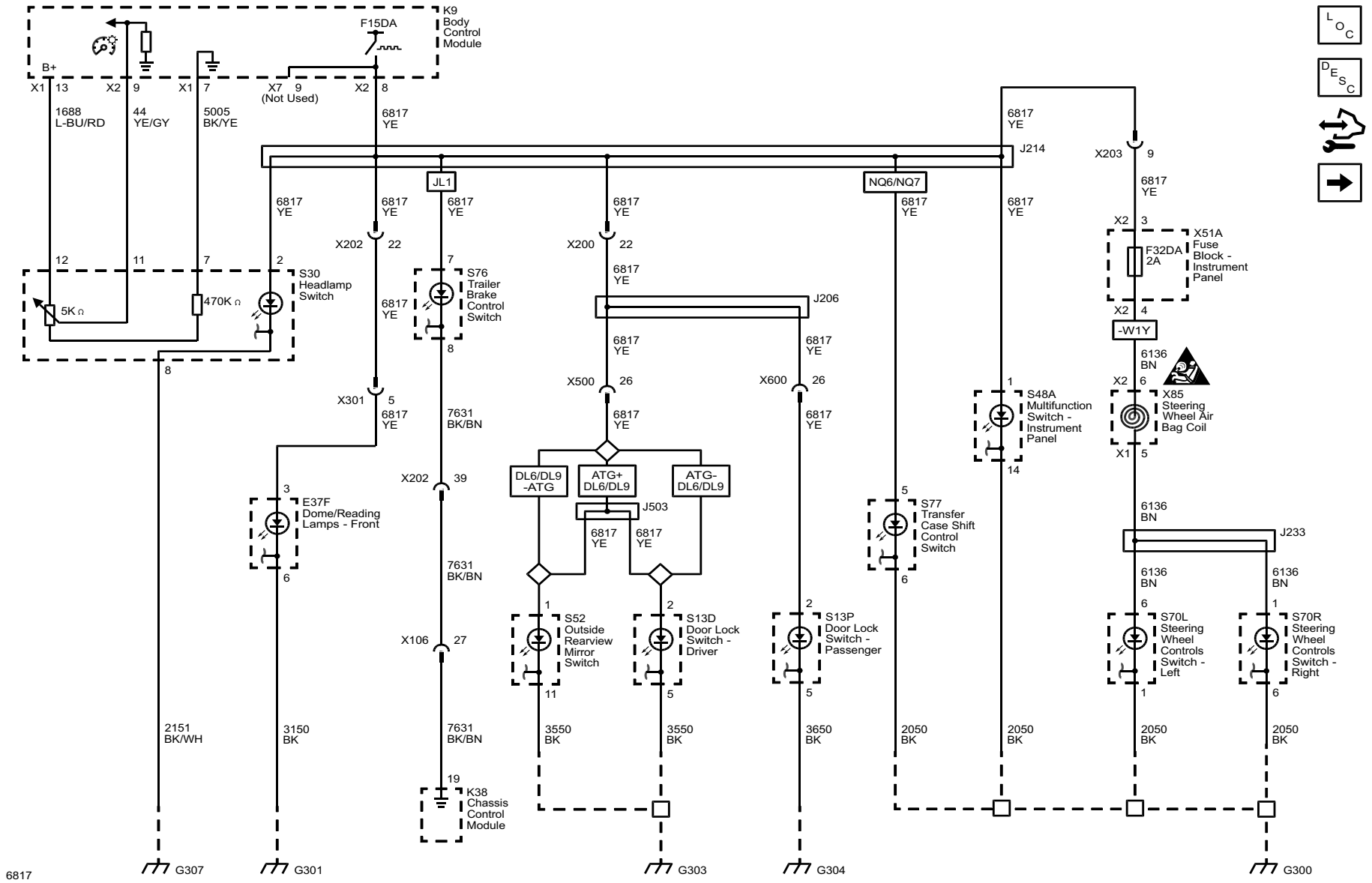
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Exterior Lights Schematics (CHMSL, Cargo, License Plate Lamps and Accessory Bed Lighting (S0Y))



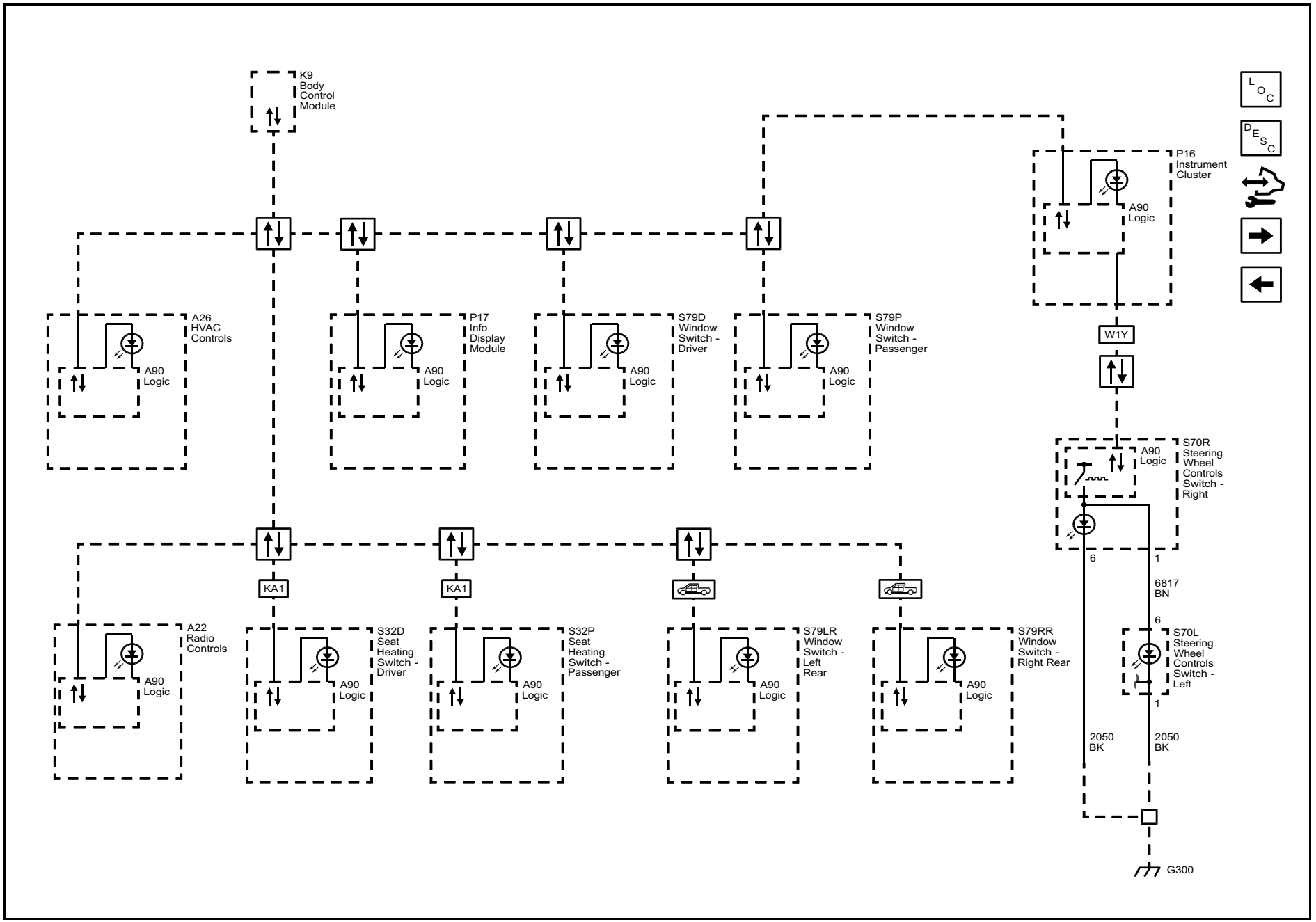
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Interior Lights Dimming Schematics (Dimming Control (1 of 3))



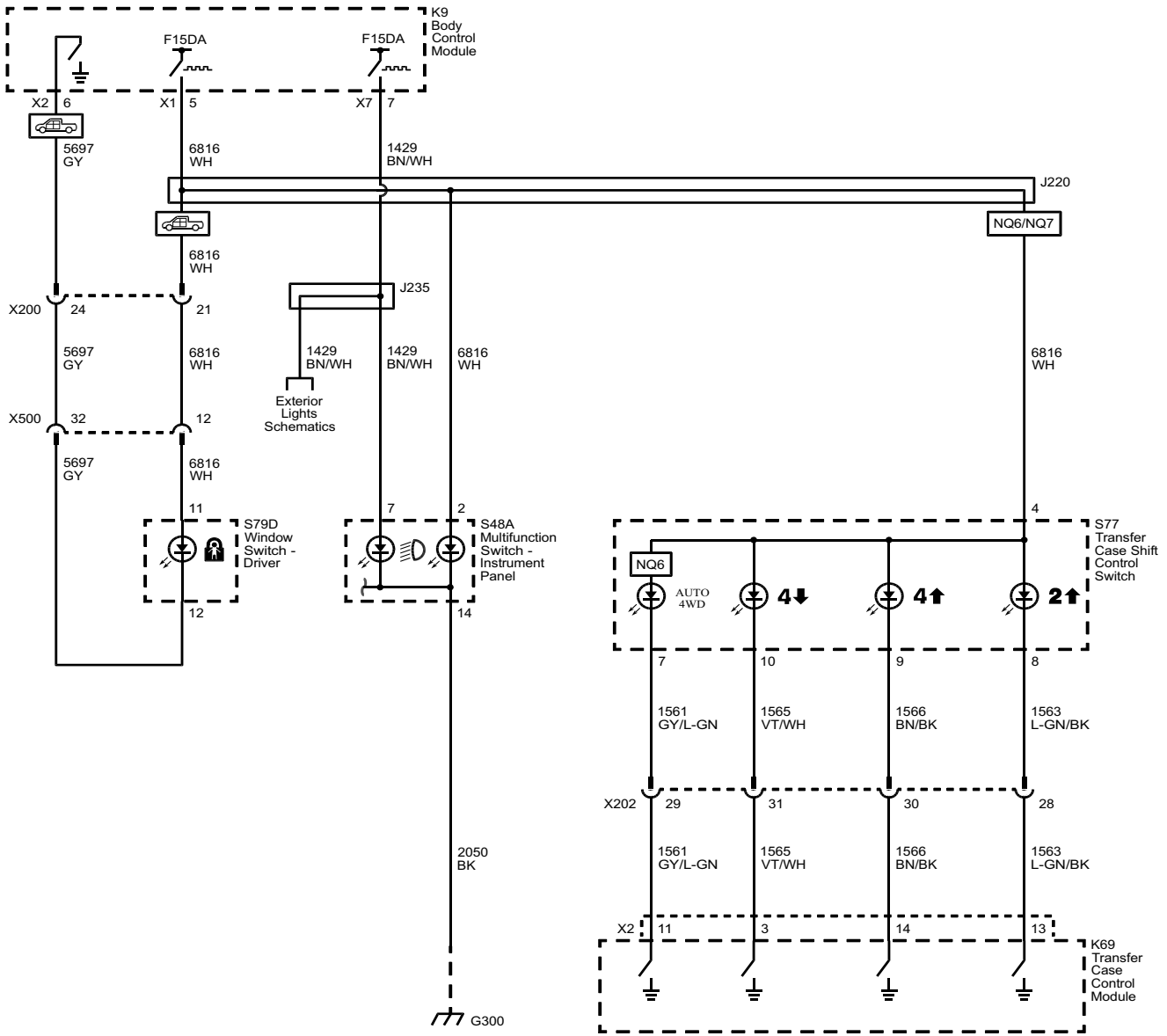
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Interior Lights Dimming Schematics (Dimming Control (2 of 3))



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Interior Lights Dimming Schematics (Dimming Control (3 of 3))



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Description and Operation

Exterior Lighting Systems Description and Operation

The exterior lighting system consist of the following lamps:

- Backup lamps
- Daytime running lamps
- Front fog lamps
- Hazard warning lamps
- Headlamps
- Park, tail, license, and marker lamps
- Stop lamps
- Turn signal lamps
- Trailer lighting

Low Beam Headlamps

The headlamps may be turned ON in 3 different ways:

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

The BCM will also command the low beam headlamps ON during daylight conditions when the following conditions are met:

- Headlamp switch in the AUTO position
- Windshield wipers ON
- Vehicle in any gear but PARK

When the BCM commands the low beam headlamps ON, the vehicle operator will notice the interior backlighting for the instrument cluster and the various switches with backlighting control will dim to the level of brightness selected by the instrument panel dimmer switch.

The body control module (BCM) monitors three signal circuits from the headlamp switch. When the headlamp switch is in the AUTO position, all three signal circuits are open. When placed in the AUTO position, the BCM monitors inputs from the ambient light sensor to determine if headlamps are required or if daytime running lamps will be activated based on outside lighting conditions. When the headlamp switch is placed in the OFF position, the headlamp switch headlamps OFF signal circuit is grounded, indicating to the BCM that the exterior lamps should be turned OFF. With the headlamp switch in the PARK position, the headlamp switch park lamps ON signal circuit is grounded, indicating that the park lamps have been requested. When the headlamp switch is placed in the HEADLAMP position, both the headlamp switch park lamps ON signal circuit and the headlamp switch headlamps ON signal circuit are grounded. The BCM responds to the inputs by illuminating the park lamps and headlamps. When the low beam headlamps are requested, the BCM applies B+ to both low beam headlamp control circuits illuminating the low beam headlamps.

High Beam Headlamps

When the low beam headlamps are ON and the turn signal/multifunction switch is placed in the high beam position, ground is applied to the BCM through the high beam signal circuit. The BCM responds to the high beam request by applying ground to the high beam relay control circuit which energizes the high beam relay. With the high beam relay energized, the switch contacts close allowing battery voltage to flow through the left and right high beam fuses to the high beam control circuits illuminating the left and right high beam headlamps.

Daytime Running Lamps

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

- The ignition is in the RUN or CRANK position
- The shift lever is out of the PARK position for vehicles equipped with automatic transmissions or the parking brake is released for vehicles with manual transmissions
- The low and high beam headlamps are OFF

The ambient light sensor is used to monitor outside lighting conditions. The ambient light sensor provides a voltage signal that will vary between 0.2 and 4.9 volts depending on outside lighting conditions. The body control module (BCM) provides a 5 V reference signal to the ambient light sensor and the HVAC control module provides a low reference ground. The BCM monitors the ambient light sensor signal circuit to determine if outside lighting conditions are correct for either daytime running lights or automatic lamp control when the headlamp switch is in the AUTO position. In daylight conditions the BCM will command the low beam headlamps ON. Any function or condition that turns on the headlamps will cancel daytime running lamps operation.

Flash to Pass

When the turn signal/multifunction switch is momentarily placed in the flash to pass position, ground is applied to the turn signal/multifunction switch. The turn signal/multifunction switch applies ground to the body control module (BCM) through the flash to pass switch signal circuit. The BCM responds to the flash to pass request by applying ground to the high beam relay control circuit. This energizes the high beam relay, closing the switch side contacts of the high beam relay, applying battery voltage to the left and right high beam fuses. Battery voltage is applied from the high beam fuses through the high beam control circuit to the high beam headlamp assemblies. This causes the high beam headlamps to illuminate at full brightness momentarily.

Backup Lamps

Automatic Transmission

With the engine ON and the transmission in the REVERSE position, the transmission control module (TCM) sends a serial data message to the body control module (BCM). The message indicates that the gear selector is in the REVERSE position. The BCM applies battery voltage to the backup lamps control circuit illuminating the backup lamps. Once the driver moves

the gear selector out of the REVERSE position, a message is sent by the TCM via serial data requesting the BCM to remove battery voltage from the backup lamps control circuit. The engine must be ON for the backup lamps to operate.

Manual Transmission

The engine control module (ECM) provides a signal circuit to the backup lamp switch which is permanently grounded. With the engine running and the transmission in the reverse position, the backup lamp switch signal circuit is pulled low and the ECM responds by sending a serial data message to the body control module (BCM). The message indicates that the gear selector is in the reverse position. The BCM applies battery voltage to the backup lamps control circuit illuminating the backup lamps. Once the driver moves the gear selector out of the reverse position, a message is sent by the ECM via serial data requesting the BCM to remove battery voltage from the backup lamps control circuit. The engine must be running for the backup lamps to operate. The engine must be running for the backup lamps to operate.

Front Fog Lamps

The front fog lamp switch is an input to the body control module (BCM) and is contained in the headlamp switch assembly. The BCM supplies voltage to the front fog lamp switch via the front fog lamp and instrument panel dimmer switch B+ circuit. When the front fog lamp switch is pressed, voltage from the B+ circuit is pulled down through the front fog lamp switch resistor. The front fog lamp resistor is part of the resistor ladder that also provides the dimming signals for the instrument panel dimmer switches. The BCM receives the voltage signal through the front fog lamp and instrument panel dimmer switch signal circuit.

The front fog lamp relay is supplied with battery voltage at all times. The front fog lamp switch signal circuit is grounded momentarily by pressing the front fog lamp switch. The body control module (BCM) energizes the front fog lamp relay by applying ground to the front fog lamp relay control circuit. When the front fog lamp relay is energized, the relay switch contacts close and battery voltage is applied through the front fog lamp fuse to the front fog lamp control circuit which illuminates the front fog lamps.

Hazard Lamps

The hazard flashers may be activated in any power mode. The hazard switch signal circuit is momentarily grounded when the hazard switch is pressed. The body control module (BCM) responds to the hazard switch signal input by supplying battery voltage to all four turn signal lamps in an ON and OFF duty cycle. When the hazard switch is activated, the BCM sends a serial data message to the instrument panel cluster requesting both turn signal indicators to be cycled ON and OFF.

The instrument panel dimmer switch controls the brightness of the interior backlighting components. When the instrument panel dimmer switch is placed in a desired brightness position, the body control module (BCM) receives a signal from the instrument panel dimmer switch and responds by applying a pulse width modulated voltage to the hazard switch light emitting diode (LED) backlighting control circuit illuminating the LED to the desired level of brightness.

Park, Tail, and License Lamps

When the headlamp switch is placed in the HEAD or PARK position, ground is applied to the park lamp switch ON signal circuit to the body control module (BCM). The BCM responds by applying voltage to the park lamps, tail lamps, and license lamps control circuits illuminating the park, tail, and license lamps.

Stop Lamps

The brake pedal position sensor is used to sense the action of the driver application of the brake pedal. The brake pedal position sensor provides an analog voltage signal that will increase as the brake pedal is applied. The body control module (BCM) provides a low reference signal and a 5 V reference voltage to the brake pedal position sensor. When the variable signal reaches a voltage threshold indicating the brakes have been applied, the BCM will apply battery voltage to the left and right stop lamp control circuits as well as the center high mounted stop lamp control circuit illuminating the left and right stop lamps and the center high mounted stop lamp.

Turn Signal Lamps

Ground is applied at all times to the turn signal/ multifunction switch. The turn signal lamps may only be activated with the ignition switch in the ON or START positions. When the turn signal/multifunction switch is placed in either the TURN RIGHT or TURN LEFT position, ground is applied to the body control module (BCM) through either the right turn or left turn signal switch signal circuit. The BCM responds to the turn signal switch input by applying a pulsating voltage to the front and rear turn signal lamps through there respective control circuits. When a turn signal request is received by the BCM, a serial data message is sent to the instrument cluster requesting the respective turn signal indicator be pulsed ON and OFF.

Trailer Lighting

Backup Lamps

For backup lamp operation, the trailer backup lamps relay is supplied with battery voltage at all times. With the engine running and the transmission in the reverse position, the transmission control module (TCM) sends a serial data message to the body control module (BCM). The message indicates that the gear selector is in the reverse position. The BCM responds to the backup lamp request by energizing the trailer backup lamps relay by applying battery voltage to the trailer backup lamps relay control circuit. When the trailer backup lamps relay is energized, the relay switch contacts close and battery voltage is applied through the backup lamp fuse to the trailer backup lamps control circuit which illuminates the trailer backup lamps. Once the driver moves the gear selector out of the reverse position, a message is sent by the TCM via serial data requesting the BCM to remove battery voltage from the trailer backup lamps relay control circuit.

Park Lamps

For trailer park lamp operation, the trailer park lamps relay is supplied with battery voltage at all times. When the headlamp switch is placed in the HEAD or PARK position, ground is applied to the park lamp switch ON signal circuit to the body control module (BCM). The BCM responds to the park lamp request by energizing the trailer park lamps relay by applying ground to the trailer park lamps relay control circuit. When the trailer park lamps relay is energized, the relay switch contacts close and battery voltage is applied through the trailer parks lamp fuse to the trailer park lamp control circuit which illuminates the trailer park lamps.

Stop Lamps

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

Turn Signal Lamps

For trailer turn signal lamp operation, the left and right trailer stop/turn signal lamp relay's are supplied with battery voltage at all times. Ground is applied at all times to the turn signal/multifunction switch. The turn signal lamps may only be activated with the ignition switch in the ON or START positions. When the turn signal/multifunction switch is placed in either the TURN RIGHT or TURN LEFT position, ground is applied to the body control module (BCM) through either the right turn or left turn signal switch signal circuit. The BCM responds to the turn signal switch input by applying a pulsating ground to the left and right trailer stop/turn signal lamp relay control circuits energizing the relay's in an ON and OFF cycle. With the left and right trailer stop/turn signal lamp relay's energized, the relay switch contacts cycle ON and OFF applying battery voltage through the left and right trailer stop/turn signal fuse's to the trailer turn signal lamp control circuits which illuminates the trailer turn signal lamps in an ON and OFF cycle.

Battery Run Down Protection/ Inadvertent Power

To provide battery run down protection, the exterior lamps will be deactivated automatically under certain conditions. The BCM monitors the state of the headlamp switch. If the park or headlamp switch is ON when the ignition switch is placed in either the CRANK or RUN position and then placed in the OFF position, the BCM initiates a 10 minute timer. At the end of the 10 minutes, the BCM will turn off the control power output to the park lamp controls as well as the headlamp relay coils, deactivating the exterior lamps. This feature will be cancelled if any power mode other than OFF becomes active. The BCM will disable battery run down protection if any of the following conditions exist. The park or headlamp switch is placed in the ON to OFF position, and back to the ON position during battery run down protection. The BCM determined that the park or headlamp switch was not active when the ignition was turned OFF.

Interior Lighting Systems Description and Operation

Interior Lamps

The interior lighting system consist of two groups. This first group includes lamps that may not be dimmed.

- Dome lamps
- Reading lamps
- Sunshade mirror lamps

Dome Lamps

The dome lamp switch has 3 positions: DOOR, OFF, and ON. The ON position provides a ground for continuous operation and the dome lamps will remain illuminated until the switch is placed in either the DOOR or OFF position. When in the DOOR position, the dome lamps operation is controlled by the body control module (BCM). When any door is opened, the door ajar switch contacts close and the BCM receives a door-open input. The BCM illuminates the dome lamps when any door is opened or a door lock/unlock request is activated with the key fob. After all doors have been closed, the dome lamps will remain illuminated approximately 3 seconds after the last door closes. When the driver places the dome lamp switch in the OFF position, the dome lamps will be disabled. In the event that the dome lamps were to remain illuminated for more than 10 minutes with the ignition switch in the OFF position and no doors opened, the BCM will deactivate the dome lamps control circuit to prevent total battery discharge. The dome lamps will turn OFF using the theater dimming feature when controlled by the BCM.

Reading Lamps

The inadvertent power supply voltage circuit from the BCM provides battery positive voltage to each reading lamp. When a reading lamp switch is activated, the switch contacts close providing a path to ground and the reading lamp illuminates. If the operator inadvertently leaves a reading lamp ON, the BCM will turn all interior lamps OFF after 10 minutes has passed since any switch activation has been detected by the BCM.

Sunshade Mirror Lamps

The inadvertent power supply voltage circuit from the BCM provides battery voltage to each set of sunshade mirror lamps. When the sunshade mirror cover is opened, a switch closes providing ground and the sunshade lamps illuminate. If the operator inadvertently leaves a sunshade mirror cover open with the lamps

ON, the BCM will turn all interior lamps OFF after 10 minutes has passed since any switch activation has been detected by the BCM.

Keyless Entry Interior Illumination

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

Interior Lamps Dimming

The second group includes lamps which may be dimmed. This group may use a combination of light emitting diodes (LED), incandescent lamps, and pulse width modulation (PWM) illumination.

- Dome/reading lamps – front
- Dome/reading lamps – rear
- Door lock switch – driver
- Door lock switch – passenger
- Hazard switch
- Headlamp switch
- HVAC control head assembly
- Multifunction switch – instrument panel
- Outside rearview mirror switch
- Radio
- Steering wheel control switch – left
- Steering wheel control switch – right
- Sun roof switch
- Sun roof tilt switch
- Window switch – passenger

With the headlamp switch in the PARK or HEAD position, the park lamp switch signal circuit provides an input to the body control module (BCM). The BCM responds by applying voltage to the park lamps as well as the backlight dimming control circuits illuminating all components with interior backlighting. All interior backlighting turns ON at the dimming level indicated by the instrument panel dimmer switch. The instrument panel dimmer switch is a momentary type switch and utilizes a resistor ladder to increase and decrease the brightness of the interior backlighting components. The instrument panel dimmer switch provides a voltage signal to the BCM that will increase as the brightness of the lights are increased and decrease as the brightness of the lights are decreased. The BCM provides a low reference signal and a B+ circuit to the switch. When the instrument panel dimmer switch is held in the desired position, the dimmed voltage setting is applied from the instrument panel dimmer switch through the instrument panel dimmer switch signal circuit to the BCM. The BCM interprets the signal and applies a pulse width modulated (PWM) voltage through the backlighting control circuits illuminating the interior backlighting to the requested level of brightness.

The backlighting for the HVAC controls, instrument cluster, and radio controls are controlled by the BCM via serial data. When the instrument panel dimmer switch is operated to the desired backlighting setting, the BCM sends a serial data message to the HVAC control module, radio, and instrument cluster requesting the backlighting be adjusted to the desired level.

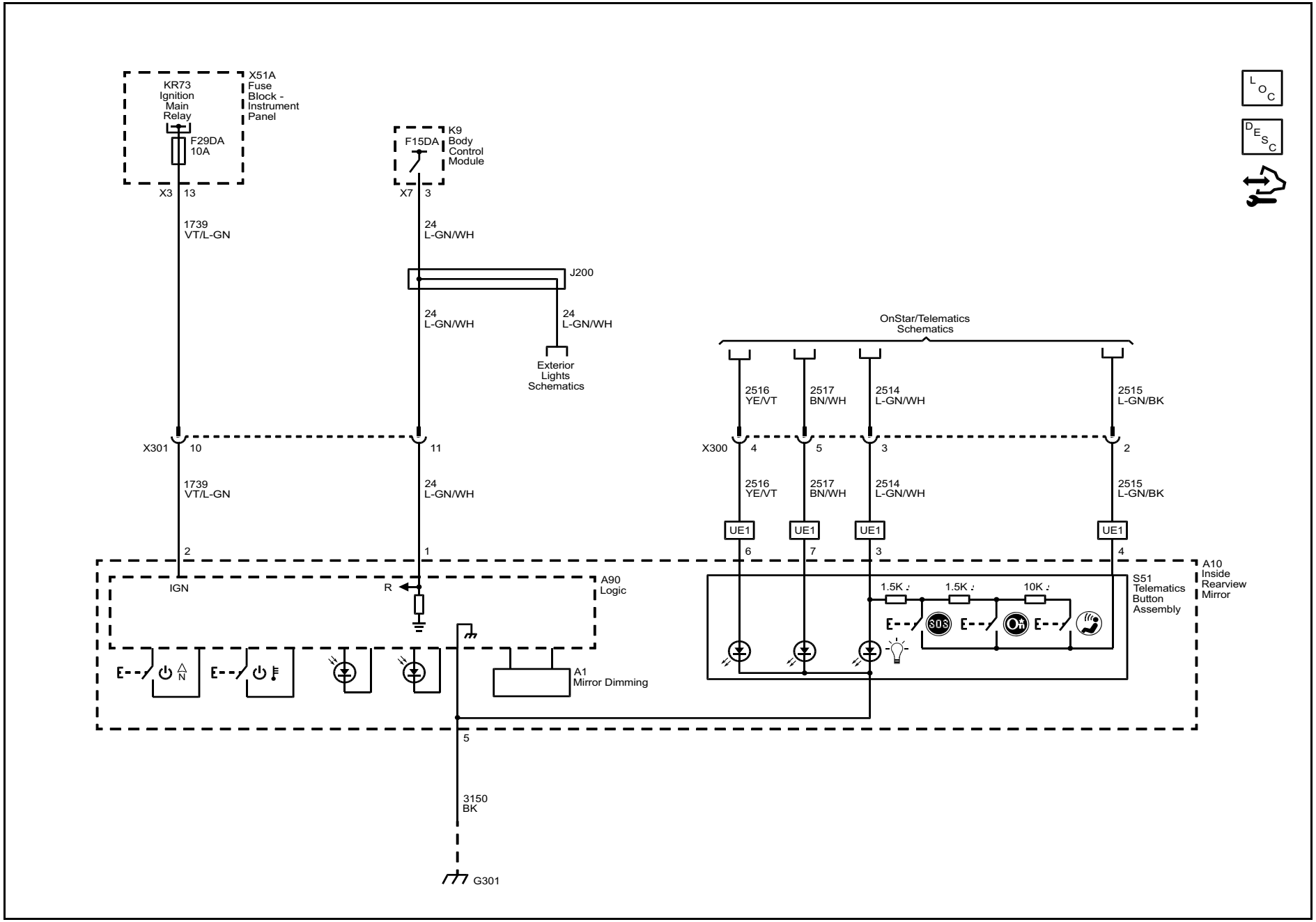
Battery Rundown Protection/ Inadvertent Power

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

Mirrors

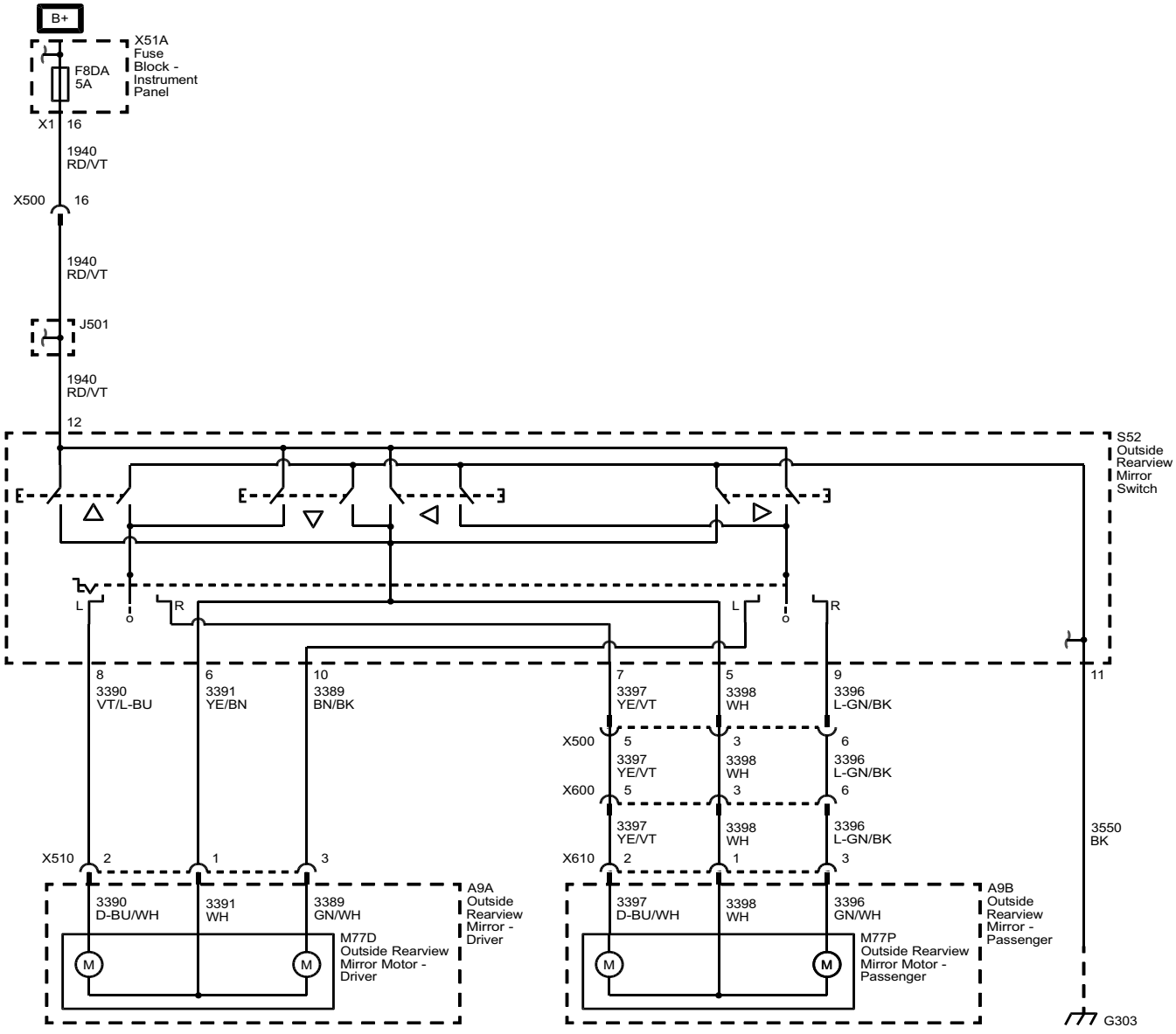
Schematic and Routing Diagrams

Inside Rearview Mirror Schematics (Auto-Dimming Mirror (DD8))



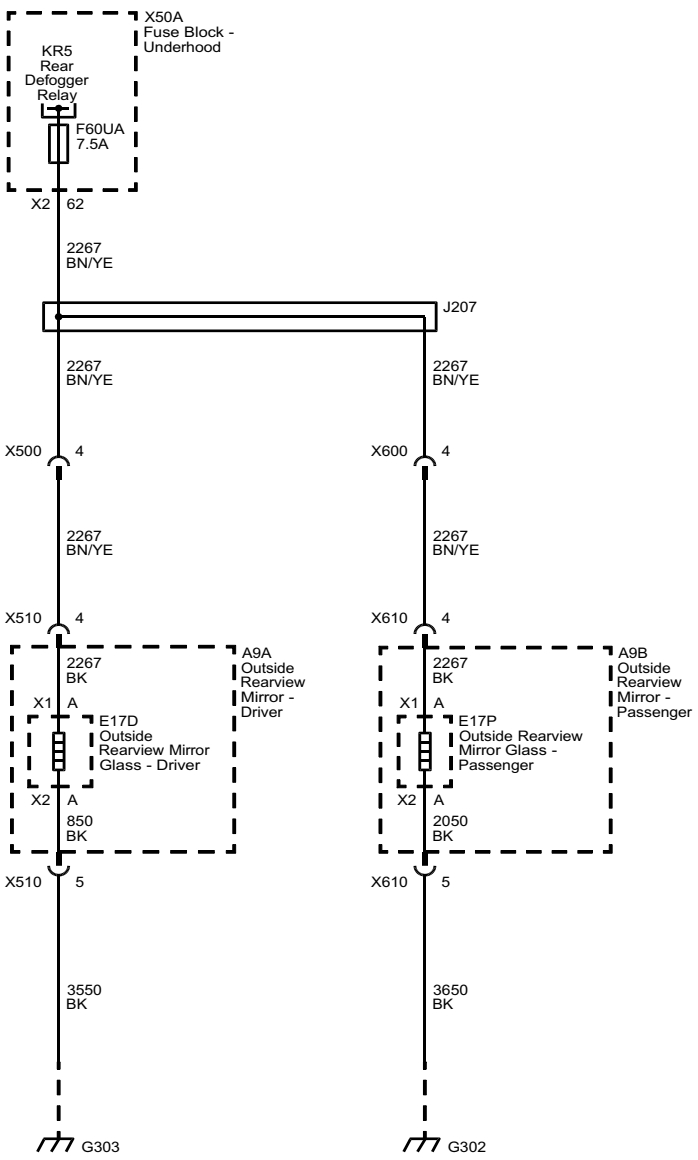
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Outside Rearview Mirror Schematics (Driver and Passenger Position)



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Outside Rearview Mirror Schematics (Heating (DL9))



4697443

Description and Operation

Automatic Day-Night Mirror Description and Operation

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

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

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

Outside Mirror Description and Operation

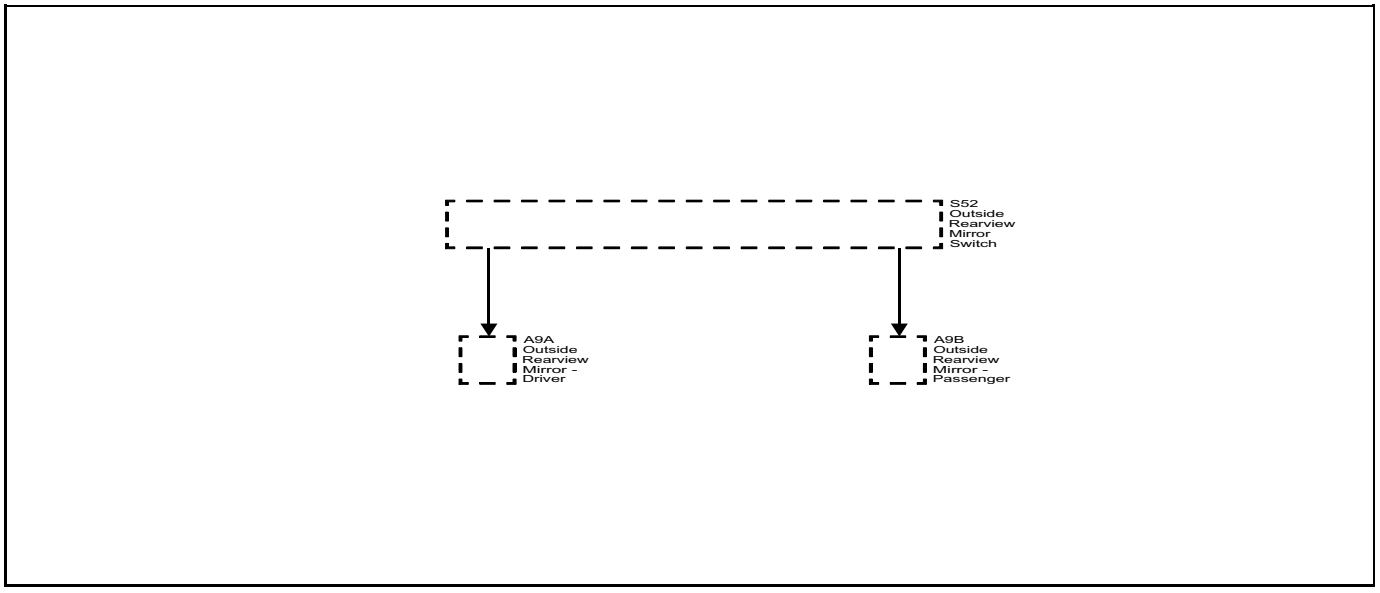
Power Mirror System Components

The power mirror system consists of the following components:

- Outside rearview mirror switch
- Mirror selector switch
- Driver outside rearview mirror
- Passenger outside rearview mirror

Each of the outside rearview mirror contains two motors. The vertical motor operates the mirror in the up and down directions, and the horizontal motor operates the mirror in the left and right directions.

Power Mirrors Without A45 Block Diagram



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Power Mirror System Controls

The outside rearview mirror switch is a four position directional switch: Up, Down, Left and Right.

The mirror select switch is a three position switch: left, neutral/fold, and right.

Power Mirror System Operation

The outside rearview mirror switch receives battery voltage from the underhood fuse block The power mirror switch also receives a constant ground.

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

If the selector switch is placed in the L position and the up switch is pressed, battery voltage will be supplied to the left outside rearview mirror vertical motor through the left mirror motor vertical control circuit and ground through the left mirror motor common control circuit. If the down switch is pressed, battery voltage will be supplied to the left outside rearview mirror vertical motor through the left mirror motor common control circuit and ground through the left mirror motor vertical control circuit.

The remainder of the mirror functions operate in the same manner as described above. Placing the power mirror switch in opposing positions, left/right or up/down, will reverse the polarity to the mirror motor, reversing the direction of movement.

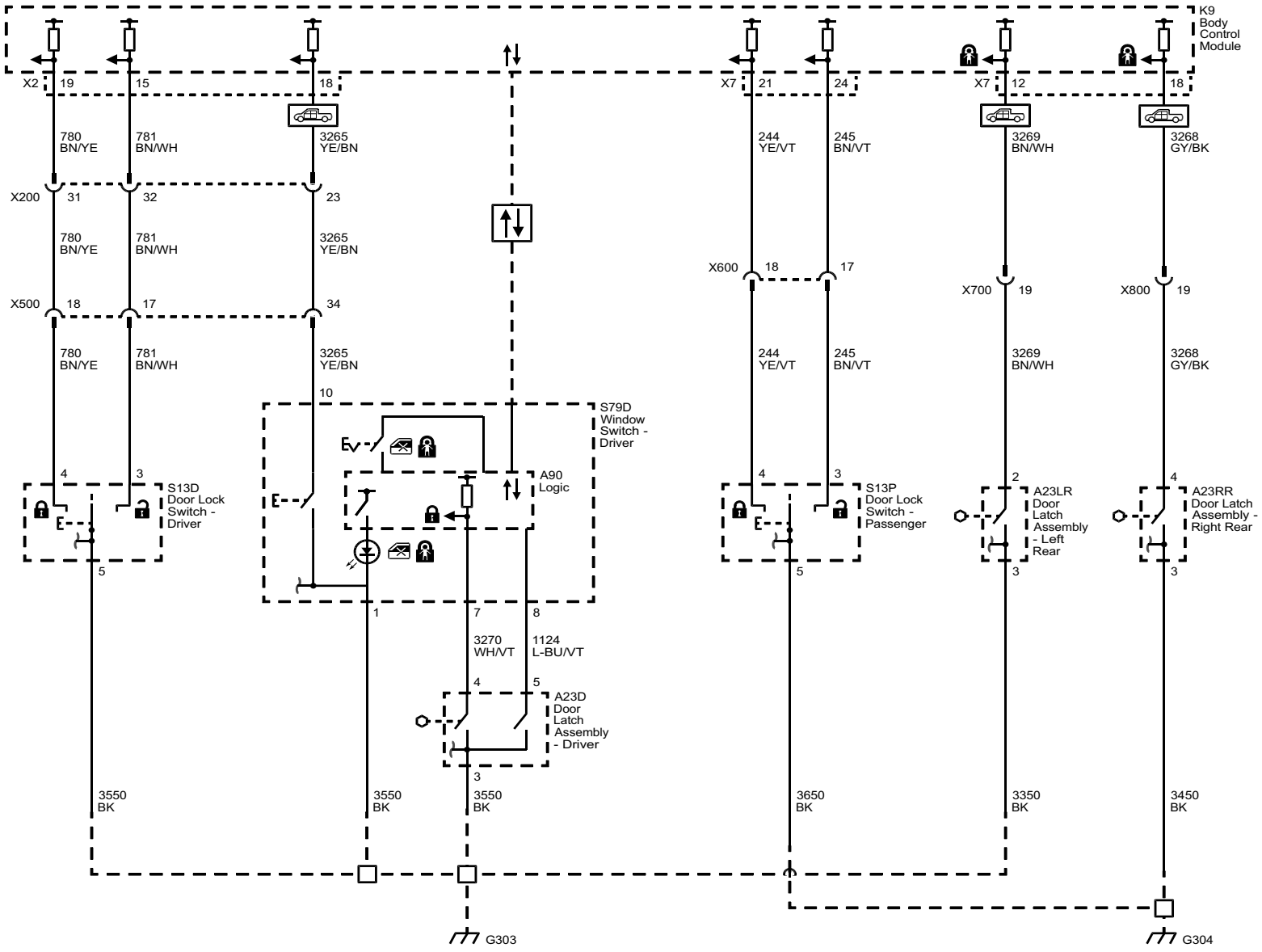
Heated Mirrors (If Equipped)

The heated mirrors are controlled through the rear defog relay. Whenever the rear window defogger is turned on battery voltage is supplied to the mirror heater elements through the left and right mirror heater element control circuits.

Vehicle Access

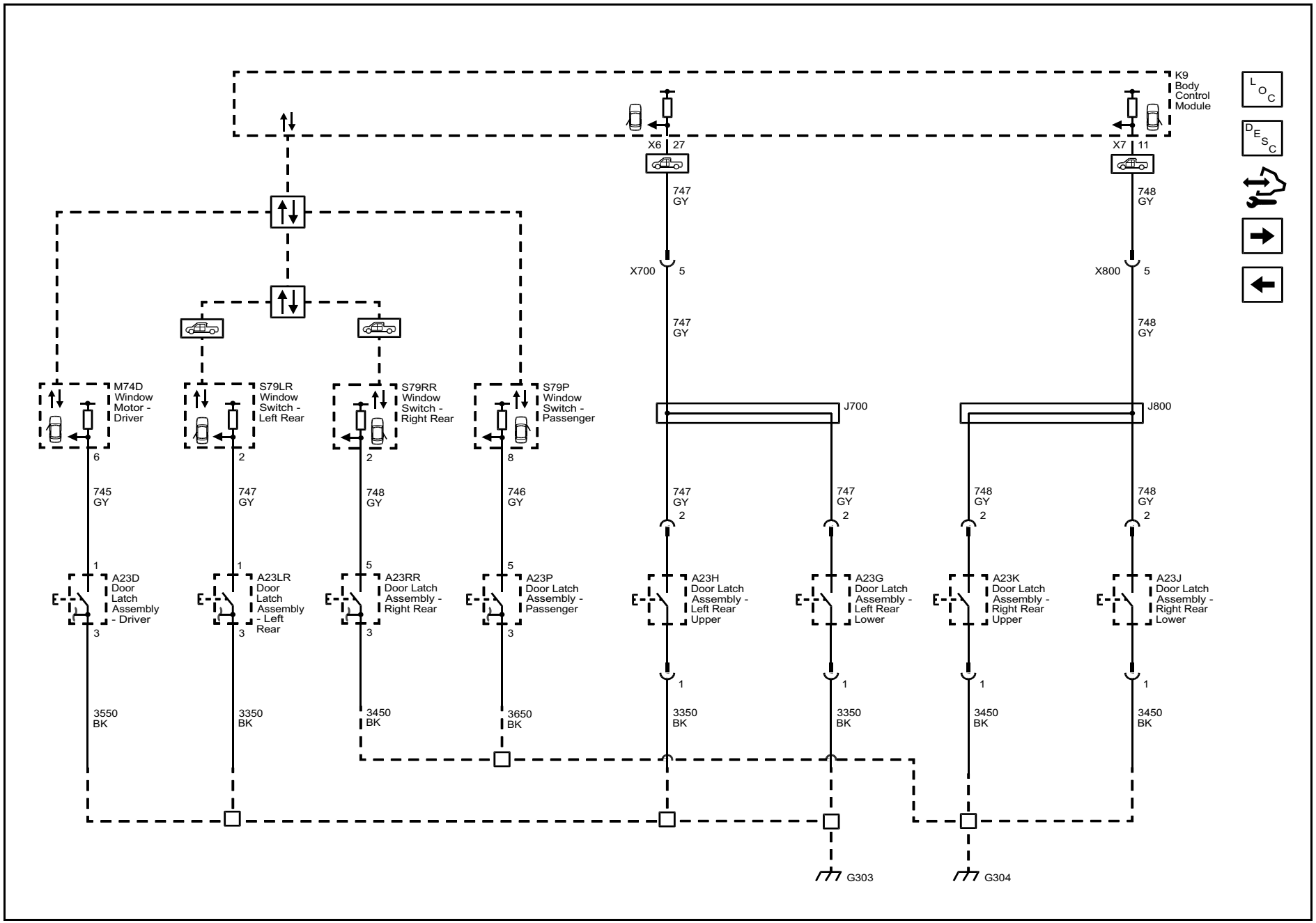
Schematic and Routing Diagrams

Door Lock/Indicator Schematics (Controls)



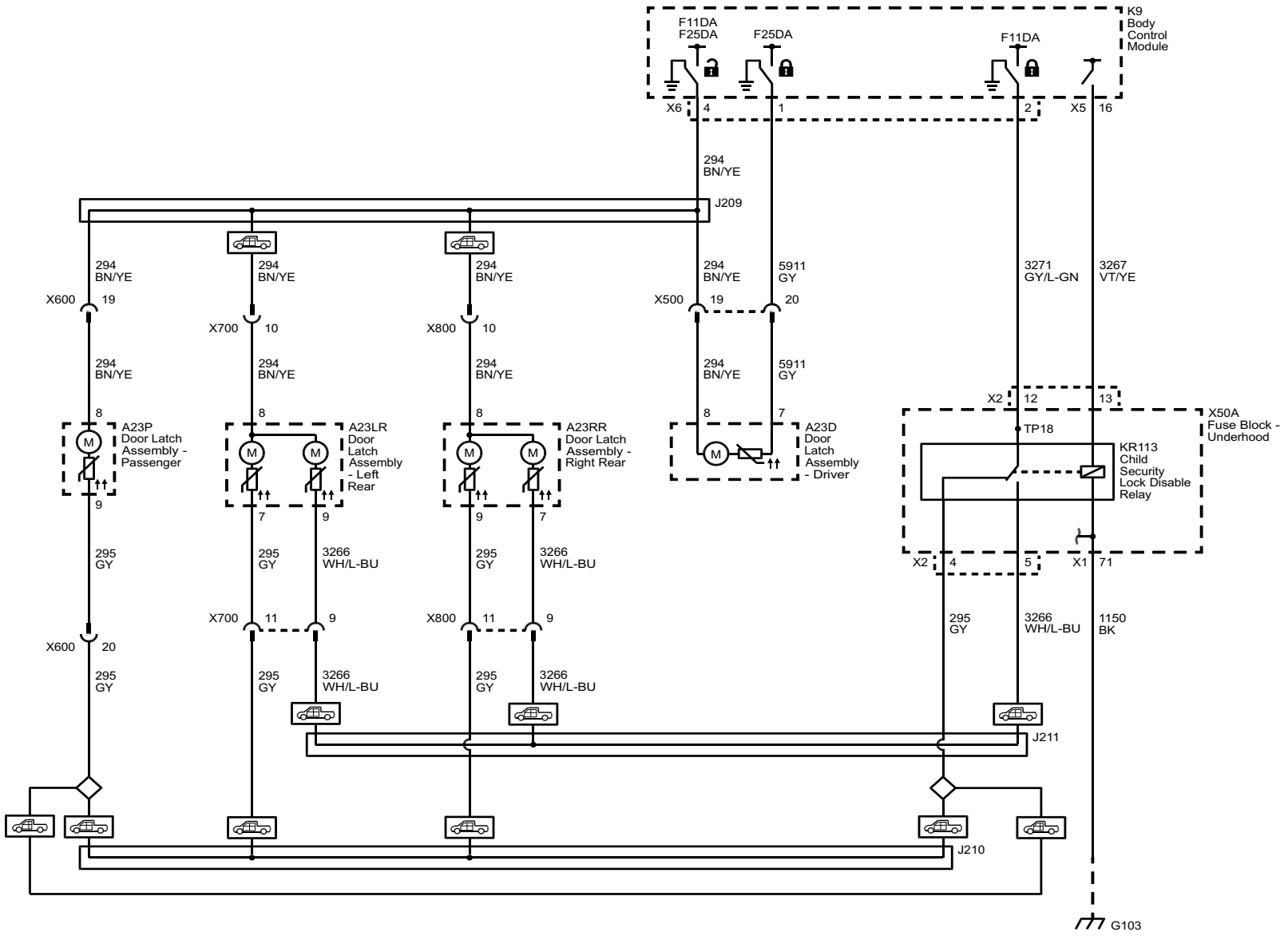
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Door Lock/Indicator Schematics (Indicators)



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Door Lock/Indicator Schematics (Actuators)



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Description and Operation

Door Ajar Indicator Description and Operation

Door Ajar Indicator System Components

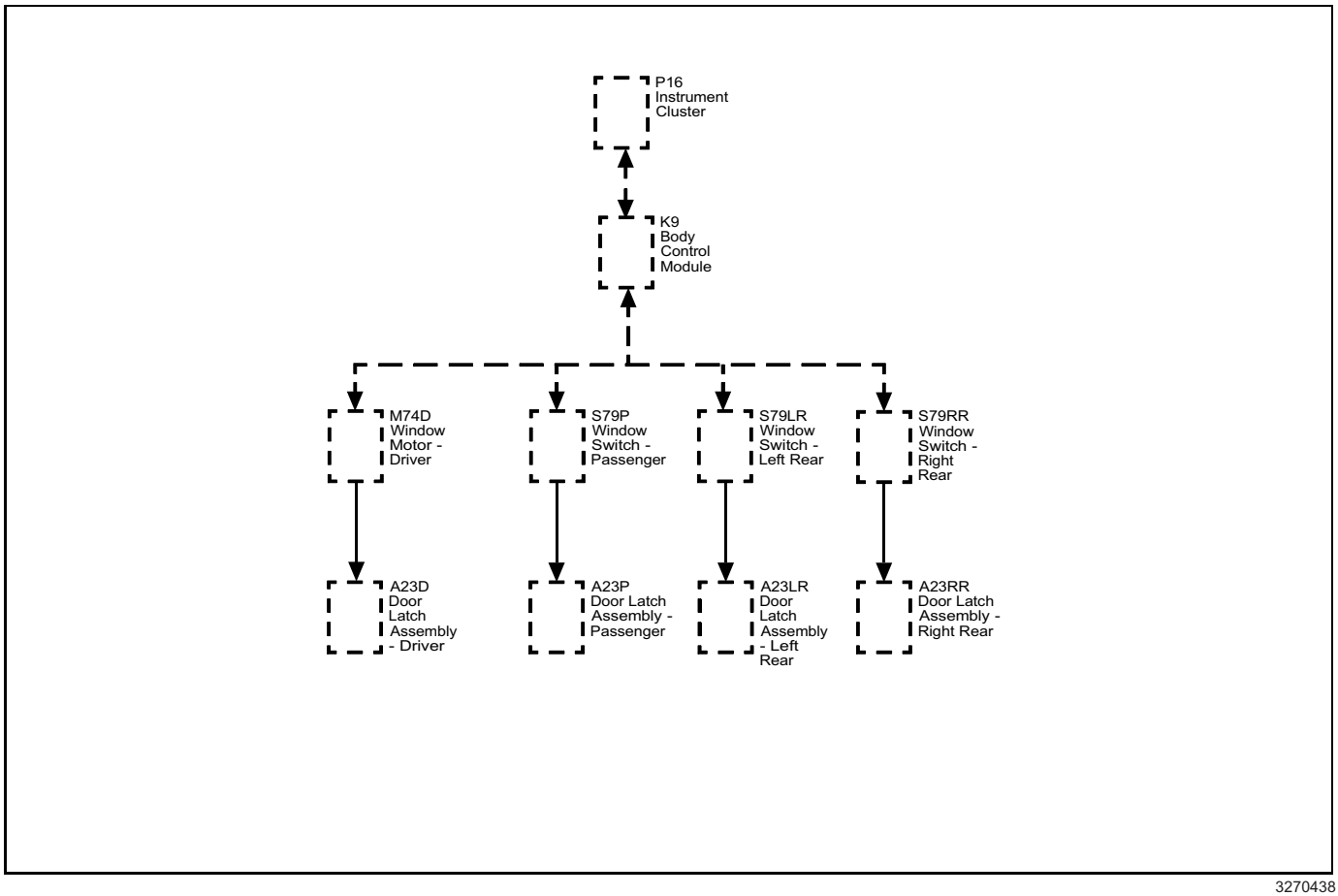
The door ajar indicator system consists of the following components:

- Body control module
- Instrument cluster
- Driver door latch
- Passenger door latch
- Left rear door latch
- Right rear door latch
- Driver window motor (AXG)
- Passenger window switch (AED)
- Left rear window switch (AEQ)
- Right rear window switch (AEQ)

Door Ajar System

Depending upon if the vehicle is a standard cab, extended cab or crew cab and/or is equipped with express up/down power windows or standard express down power windows or manual crank windows affects how the driver and passenger door ajar signal circuits are configured and monitored.

Door Ajar Indicator With AXG/AED/AEQ Block Diagram



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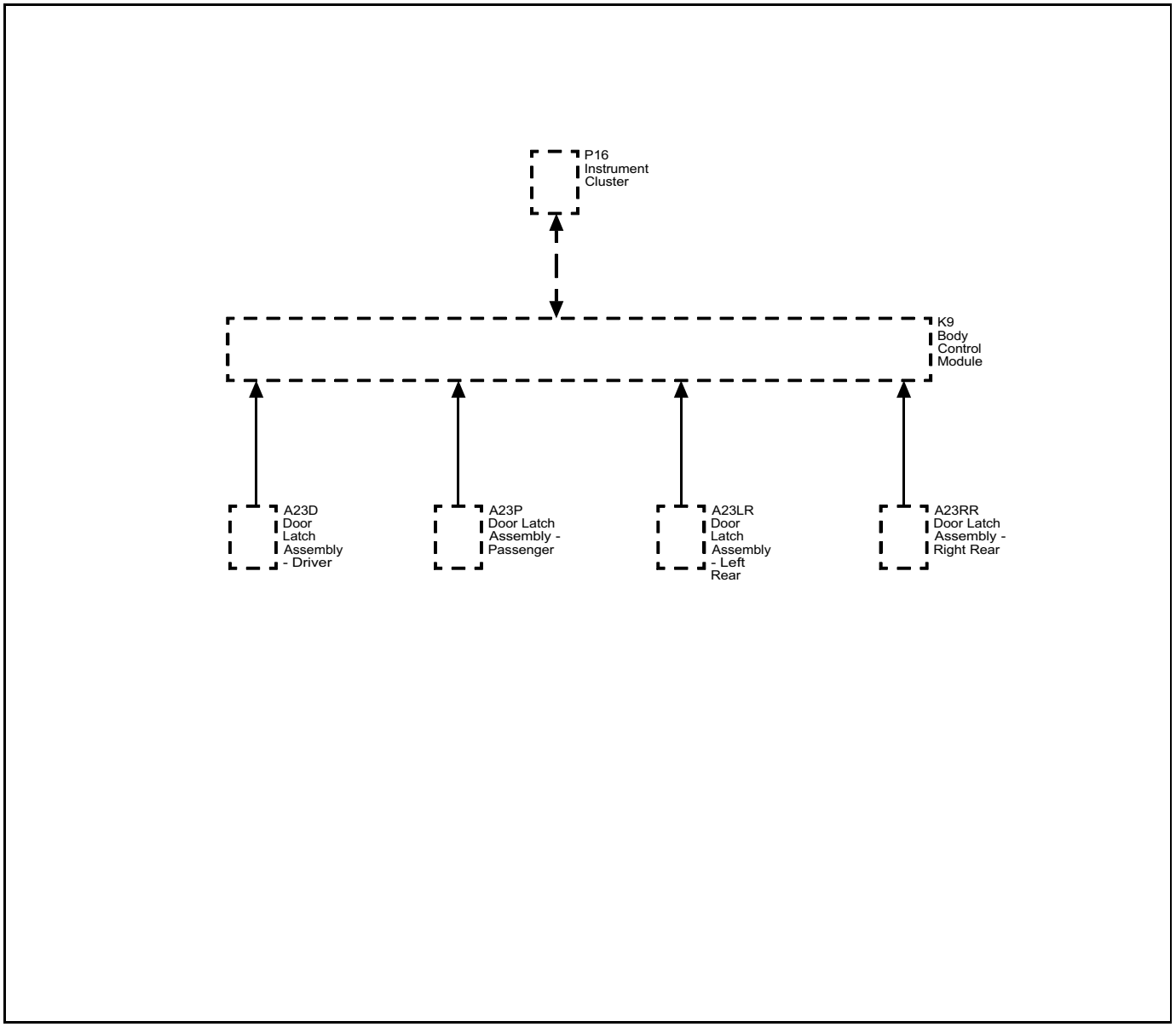
Driver Door Ajar (With AXG)

The driver window motor will provide a 12V signal to the driver door ajar switch within the door latch to indicate the status of the door. When the driver door is open, the contract within the ajar switch closes providing a ground part for the signal circuit. The driver window motor will detect the voltage drop in the ajar signal circuit and will send a serial data message to the body control module. The body control module will then send a message to the instrument cluster which will illuminate the door ajar icon.

Passenger and Rear Doors Ajar (With AED and AEQ)

The passenger and rear window switches provide a 12V signal to the respective door ajar switch within the door latch to indicate the status of the door. When the door is open, the contract within the ajar switch closes providing a ground part for the signal circuit. The window switch will detect the voltage drop in the ajar signal circuit and will send a serial data message to the body control module. The body control module will then send a message to the instrument cluster which will illuminate the door ajar icon.

Door Ajar Indicator Block Diagram



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Driver, Passenger and Rear Doors Ajar (Without AXG, AED or AEQ)

The body control module provides a 12V signal to each door ajar switch within the door latch to indicate the status of the door. When the door is open, the contract within the ajar switch closes providing a ground part for the signal circuit. The body control module will detect the voltage drop in the ajar signal circuit and will send a message to the instrument cluster which will illuminate the door ajar icon

Power Door Locks Description and Operation

Door Lock System Components

The power door lock system consists of the following components:

- Driver door lock switch
- Driver door key cylinder switch (Part of the driver door latch assembly)
- Child door lockout switch (Part of the driver window switch)
- Passenger door lock switch
- Front door lock actuators
- Rear door lock actuators (Extended and crew cab models)
- Body control module (BCM)
- Remote control door lock receiver
- Keyless entry transmitter
- Underhood fuse block (Contains child security lock disable PCB relay)

Door Lock System Controls

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

- A door lock switch LOCK or UNLOCK activation
- A key cylinder switch unlock activation
- A keyless entry transmitter activation
- Pressing the driver door lock plunger flush with the door panel will lock all doors

Door Lock Operation

The BCM supplies a 12 volt signal to the lock and unlock signal circuits of the driver and passenger door lock switches. When the appropriate switch is pressed, a contact within the door lock switch closes providing a ground path for the signal circuit. The BCM will detect the voltage drop in the signal and will command the doors to perform the lock or unlock functions.

The driver door latch contains 2 internal switches and 2 signal circuits that are monitored by the BCM. One switch is controlled by the driver key cylinder switch, when the key is turned to the unlock position, a switch will close and the BCM will command the remaining doors to UNLOCK. The other switch is controlled by the driver door lock plunger, pressing the plunger flush with the door panel will close the switch, the switch will close and the BCM will command the remaining doors to LOCK

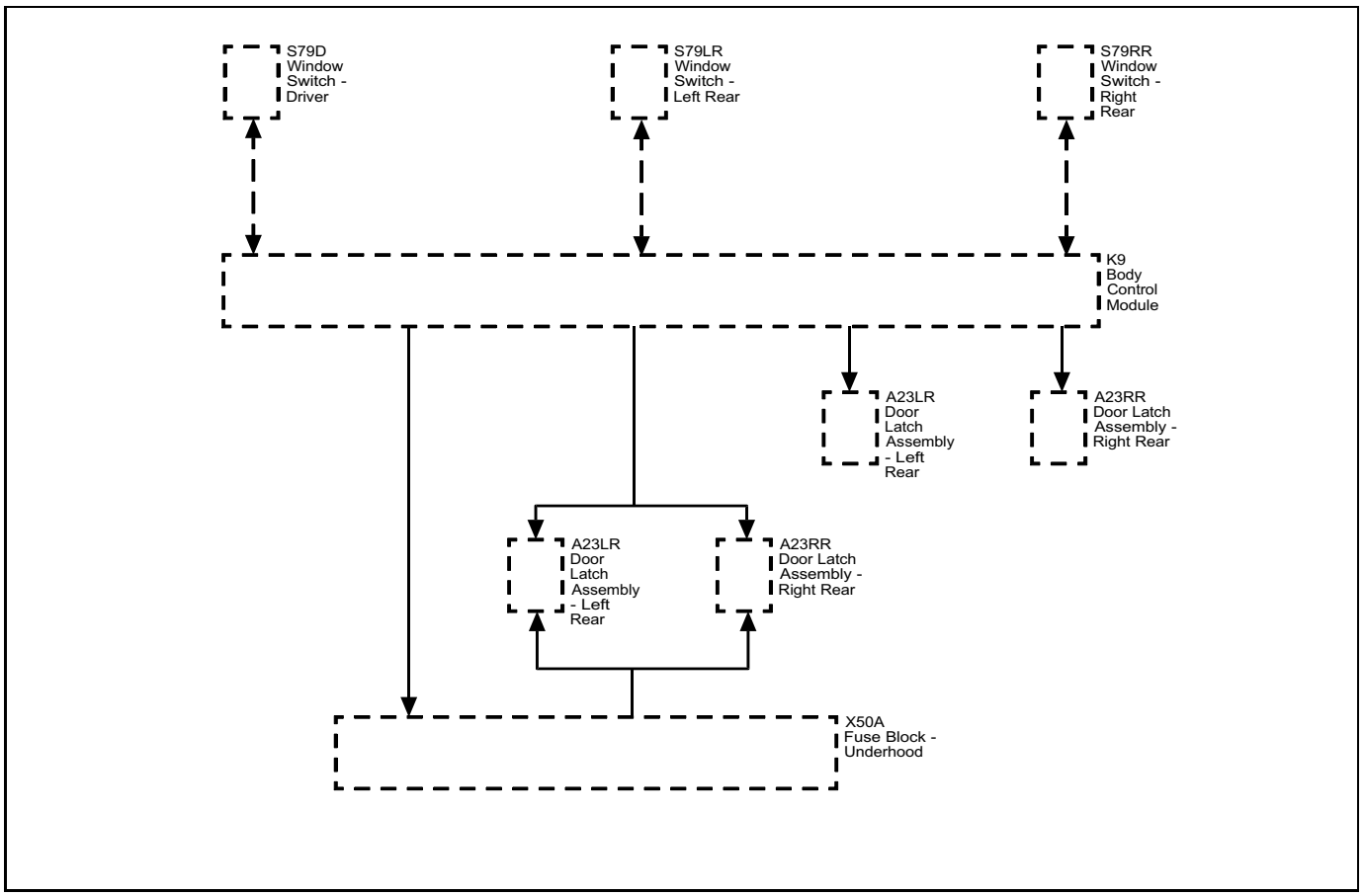
The BCM may also receive a LOCK or UNLOCK command from the remote control door lock receiver, refer to Keyless Entry System Description and Operation for information on the keyless entry system

The BCM, upon receipt of a lock switch lock or unlock signal, will supply voltage to the door lock actuator lock or unlock control circuits and ground to the other lock actuator control circuit, the doors will then lock or unlock as commanded.

The following three circuits are used to operate the lock:

- Driver door unlock
- Passenger doors unlock
- All doors lock

Power Door Child Lock Block Diagram



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Child Security Lockout System Operation

The child door lockout switch on the driver window switch controls the child locks on the rear doors. The lockout switch is an input to the body control module and the body control module controls the door lock security relay. When the body control module receives a command from the child door lockout switch, it will apply voltage to the child security lock disable relay coil, this will energize the relay and the contact within the relay will then direct the voltage to activate the left rear and right rear child locks and then isolate them from the normal door lock system to prevent the rear doors from being opened by using the interior rear door handles. An indicator will also illuminate to alert the driver that the child lockout system has been activated. Pushing the switch again will return normal function to the rear interior door handles and the indicator will go out.

The body control module monitors the voltage level of the child security motor status signal circuit, when the child locks have been activated, the contacts of the child security motor status switch (internal to the rear door latch) will close providing a ground path for the signal circuit pulling the voltage low. It is in this manner that the body control module is able to determine if the rear door latch has been successfully been locked out.

The body control module monitors the status of the child security lockout system, when the body control module detects a fault in the system, it will command the child lockout indicator to flash ON and OFF for 30 seconds to alert the driver that the child security lockout system may not be functioning properly.

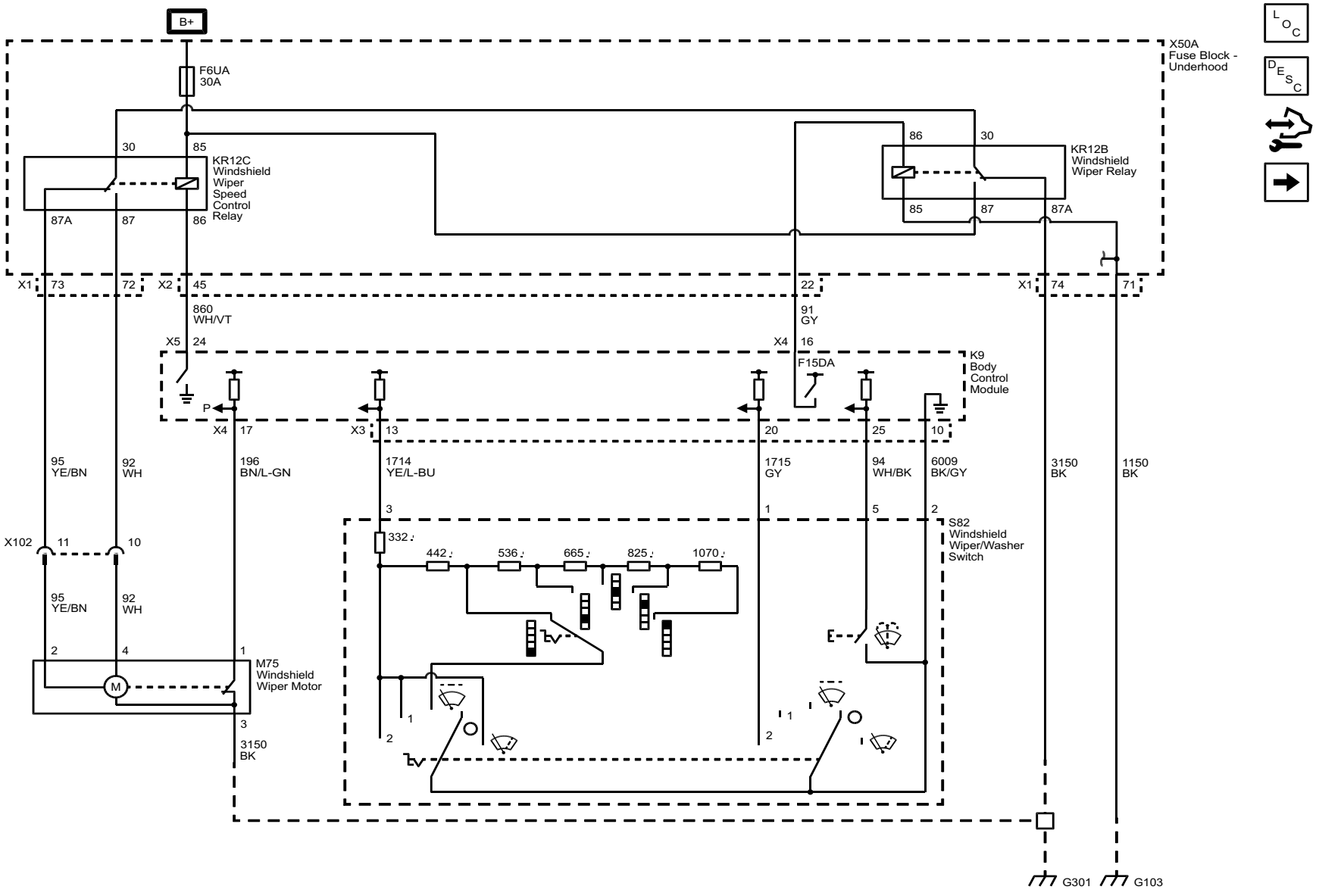
The body control module will command the child lockout indicator to flash ON and OFF for the following reasons:

- An open/high resistance in either child security motor status signal circuit
- The body control module detects that one or both rear door latches have not activated and are not locked out
- The body control module detects a short to ground or an open/high resistance in the child security lock disable relay control circuit
- A malfunctioning child security lock disable relay
- An open/high resistance in the child security lock motor control circuit

Wipers and Washers

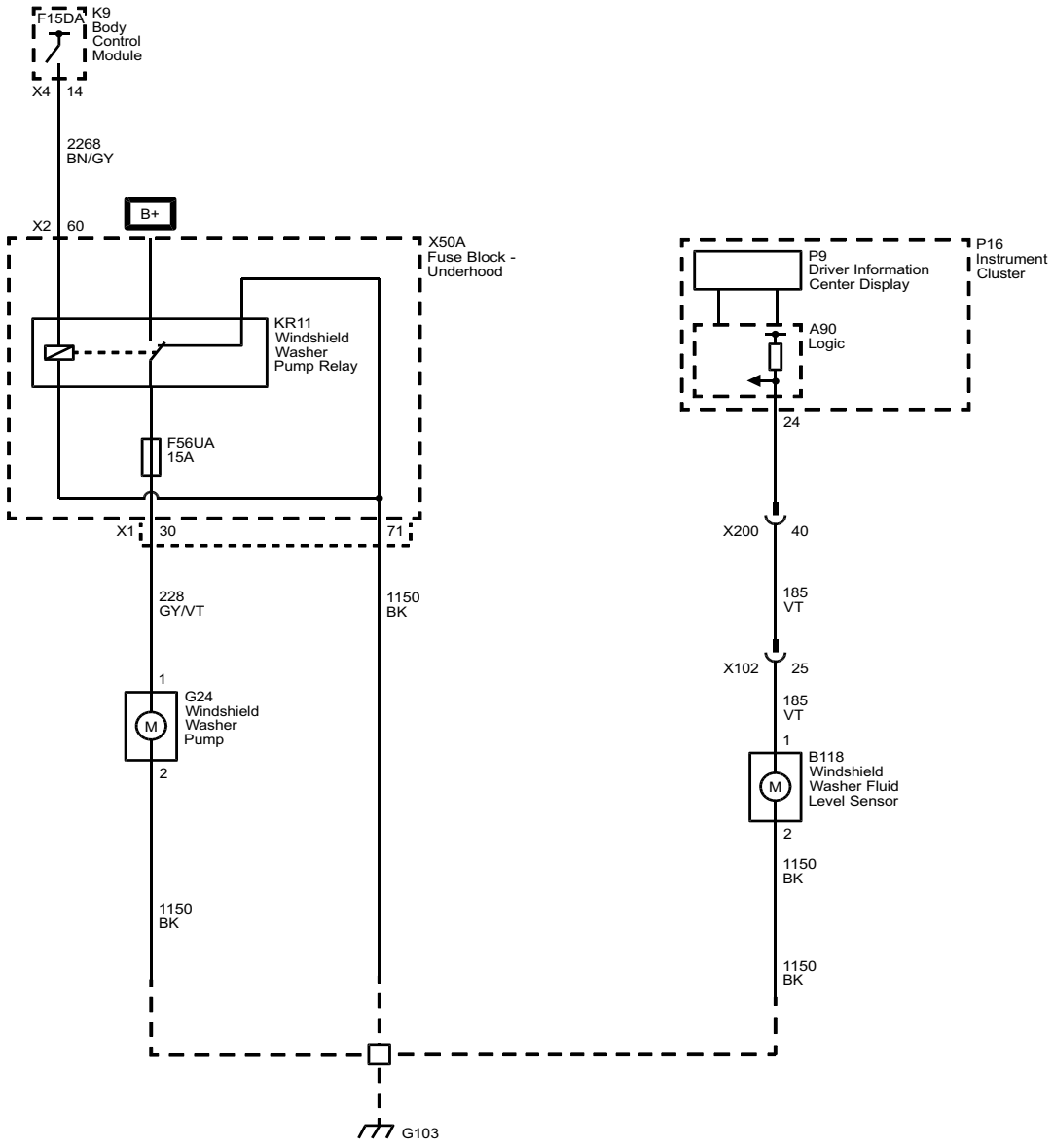
Schematic and Routing Diagrams

Wiper/Washer Schematics (Wiper/Washer Control)



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Wiper/Washer Schematics (Fluid Level/Washer Pump)



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Description and Operation

Wiper/Washer System Description and Operation

Wiper/Washer System Components

The wiper/washer system consists of the following electrical components:

- Windshield Wiper Relay
- Windshield Wiper Speed Control Relay
- Windshield Washer Pump
- Windshield Washer Pump Relay
- Windshield Wiper Motor
- Windshield Wiper/Washer Switch
- Body Control Module (BCM)
- Underhood Fuse Block

Windshield Wiper System

The body control module (BCM) controls the wiper motor via two removable relays (Windshield Wiper Relay and Windshield Wiper Speed Control Relay). The BCM determines the wipe/wash system mode of operation by monitoring several signals from the Windshield Wiper/Washer Switch.

The BCM has 3 signal circuits, the first signal circuit is the Windshield Wiper Switch Low Reference, where the BCM provides a low reference signal to the Windshield Wiper/Washer Switch. Each input of the BCM provides a switched battery pull-up for each Windshield Wiper/Washer Switch output signal it receives.

The second signal circuit is the Windshield Wiper Switch Low Signal, and it consists of 6 resistors in the windshield wiper/washer switch configured as a resistor ladder network. The BCM monitors the voltage, and when high speed windshield wiper operation is requested, the windshield wiper control switch is connected to a different set of resistors into the circuit resulting in different voltages appearing on the BCM A/D input. To initiate low speed operation, the BCM only energizes the front wiper motor on/off relay. This allows battery voltage from the wiper fuse to be applied through the switched contacts of the wiper motor on/off relay, through the normally closed contacts of the wiper high/low speed relay, to the low speed control circuit of the windshield wiper motor.

The third signal circuit is the Windshield Wiper Switch High Signal, the BCM monitors the voltage, and when high speed windshield wiper operation is requested, the BCM continues to apply voltages to the windshield wiper relay control circuit and also applies ground to the windshield wiper speed control relay control circuit. This will cause the contacts in the windshield wiper speed control relay to close and apply B+ to the windshield wiper motor through the windshield wiper high speed control circuit, enabling high speed wiper operation.

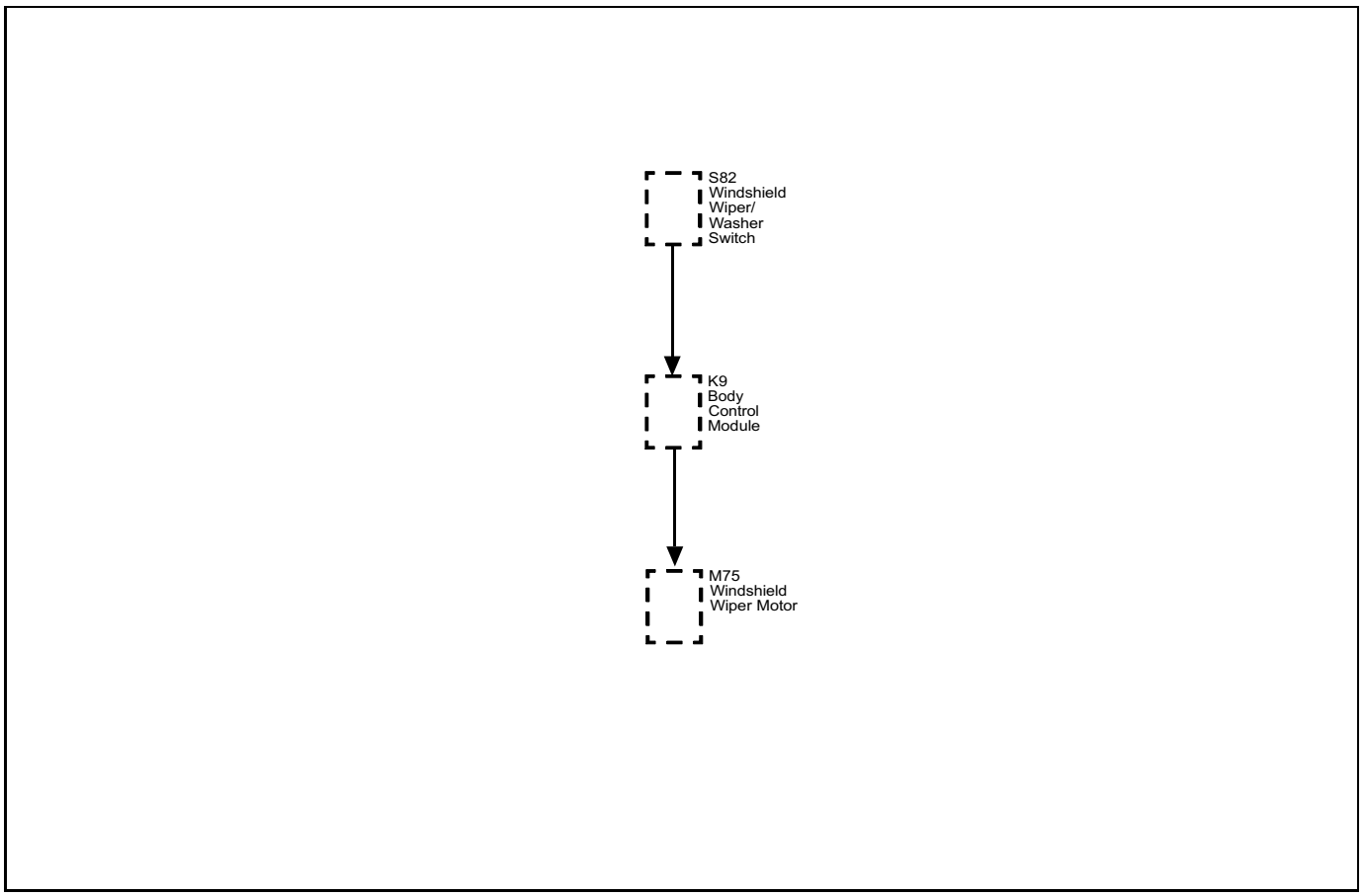
Parking the wiper motor, the BCM monitors the park circuit until the park switch pulls the park circuit to ground. At this time, the BCM will immediately deactivate the wiper motor on/off relay. The relay contacts will switch back to their normally closed position and will apply ground to the wiper motor power inputs through the normally closed contacts of the wiper high/low relay. This deactivates and dynamically brakes the wiper motor in the park position. When the wiper switch is turned to the OFF position while the wiper motor is somewhere in mid-cycle, the BCM will continue to operate the motor until the wipers reach the park position. If the BCM is running the wiper motor and does not see a state transition of the park switch after 8 s, the wipers will stop immediately when the wiper switch is turned to OFF. If the ignition is turned OFF while the wipers are in mid-cycle, the wipers will stop immediately, regardless of position. The BCM will park the wipers next time the ignition is turned ON.

The windshield wiper system MIST operation is identical to LOW speed operation, except that the MIST switch is a press and release type switch. When the wiper switch is moved to the MIST position and released, low speed wiper motor operation is started and will continue until 1 cycle is complete. If the wiper switch is moved to the MIST position and held, the wiper motor will operate in the LOW speed mode until the switch is released.

Windshield wiper intermittent operation is a low speed wiper motor function with a variable delay interval between the wiper motor cycles. The duration of the delay is controlled by the front wiper control switch's intermittent 1 thru intermittent 5 settings. The wiper operation is as follows

1. The BCM will initiate a single wipe by activating its front wiper ON/OFF relay output.
2. At the completion of a single wipe, the BCM will park the wipers as described above.
3. The BCM will then pause the wipers in their park position for the time duration associated with intermittent delay switch setting.
4. When the delay time expires repeat Steps 1 and 3 until the system is turned off or taken out of intermittent mode. If the wiper switch is moved from a longer delay interval to a shorter delay interval, the BCM will command an immediate wipe cycle and reset the delay timer to the shorter delay interval.

Front Wiper Block Diagram

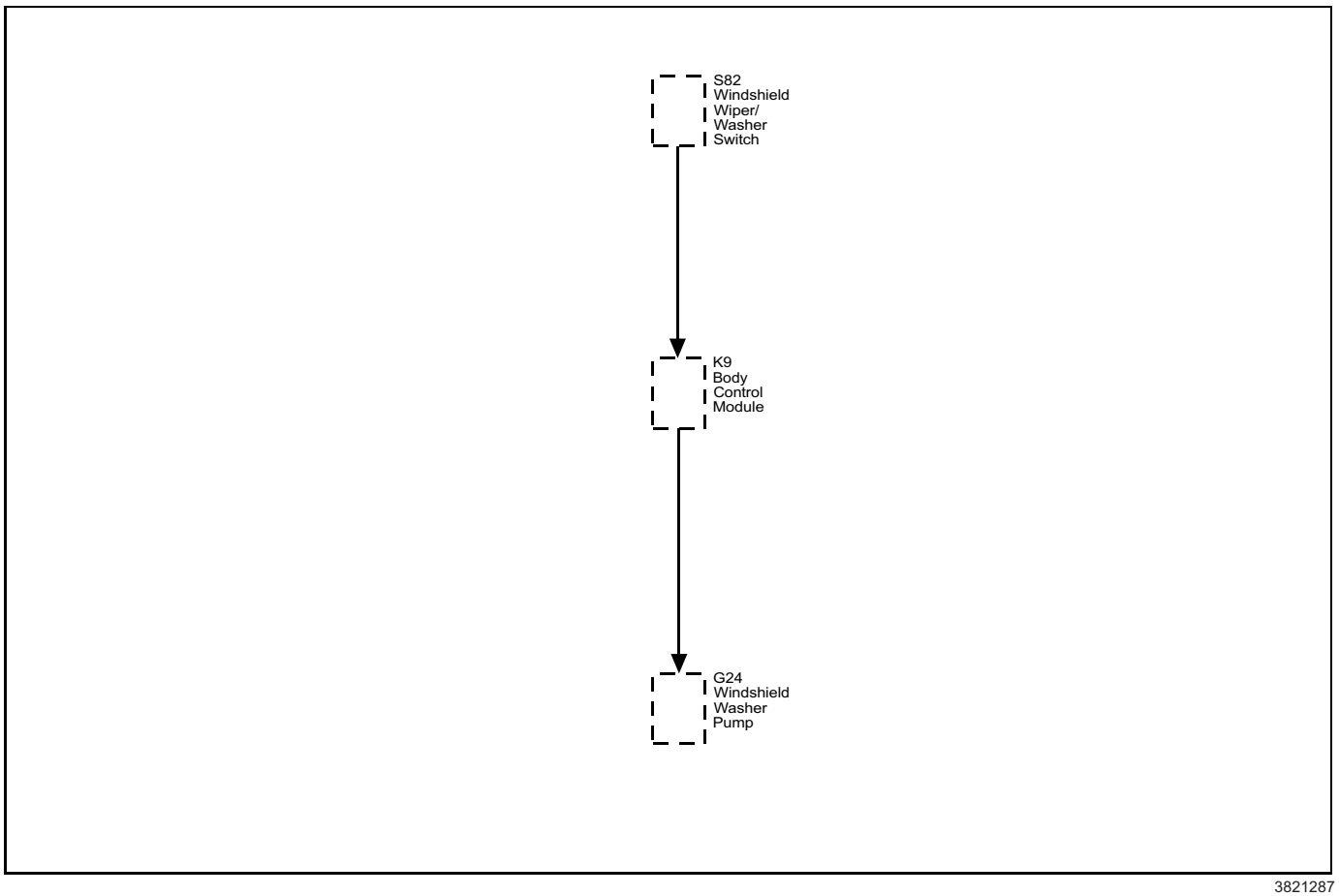


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Windshield Washer System

The windshield washer system contains a windshield washer pump, a windshield washer pump relay, windshield wiper/washer switch. the windshield washer pump is controlled by the body control module (BCM) via a removable relay. When the washer switch is depressed, the BCM monitors the signal circuit by the washer request circuit. The BCM then applies voltage through a control circuit to the removable windshield washer pump relay. With the relay energized, fused battery voltage is applied through the switch contacts of the relay and the control circuit to activate the windshield washer pump.

Washers System Block Diagram



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Section 2

Brakes

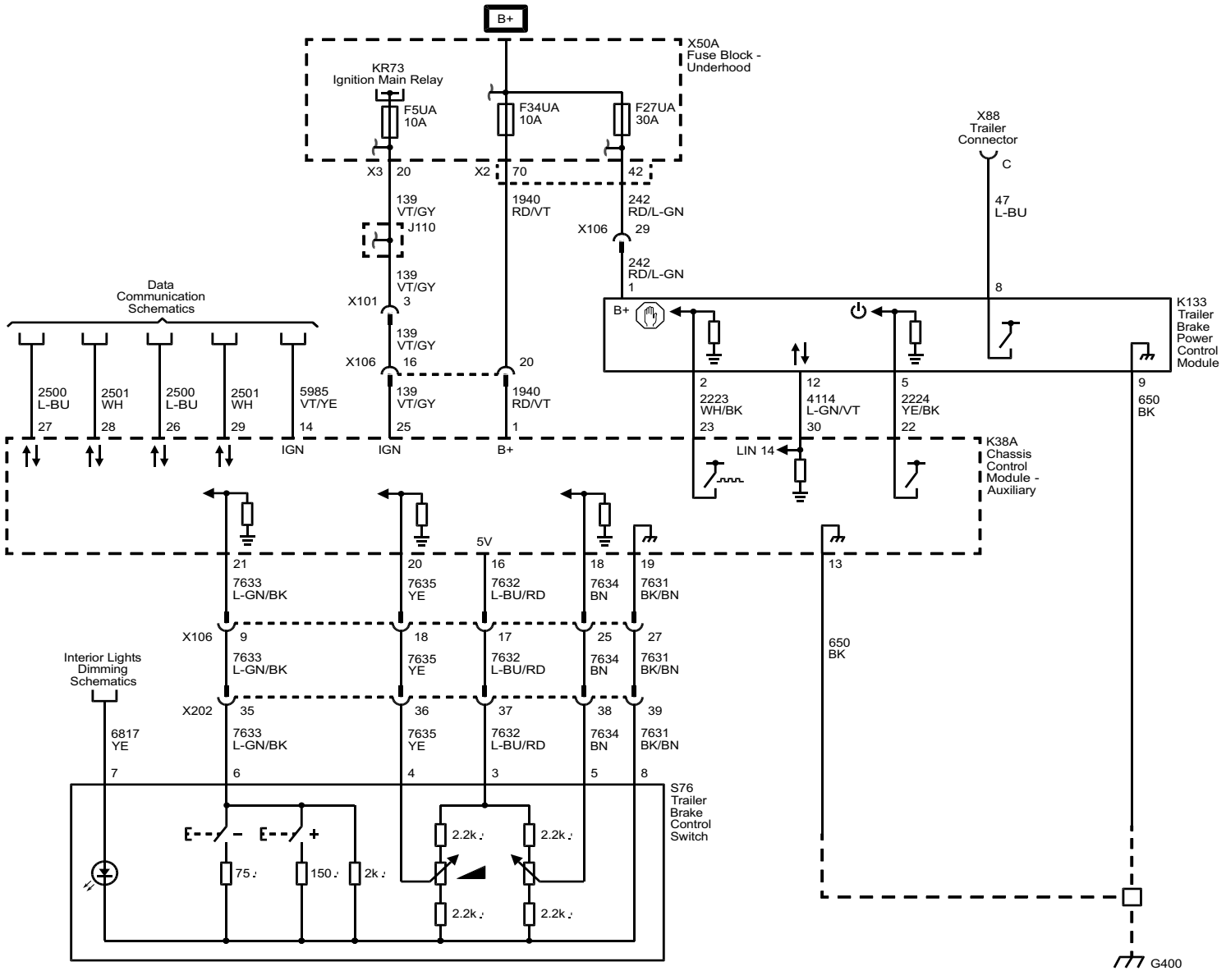
Trailer Brake Controls 2-3
Schematic and Routing Diagrams 2-3
Trailer Brake Control Schematics 2-4
Description and Operation 2-6
Trailer Brake Controls Description and Operation 2-6

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Trailer Brake Controls

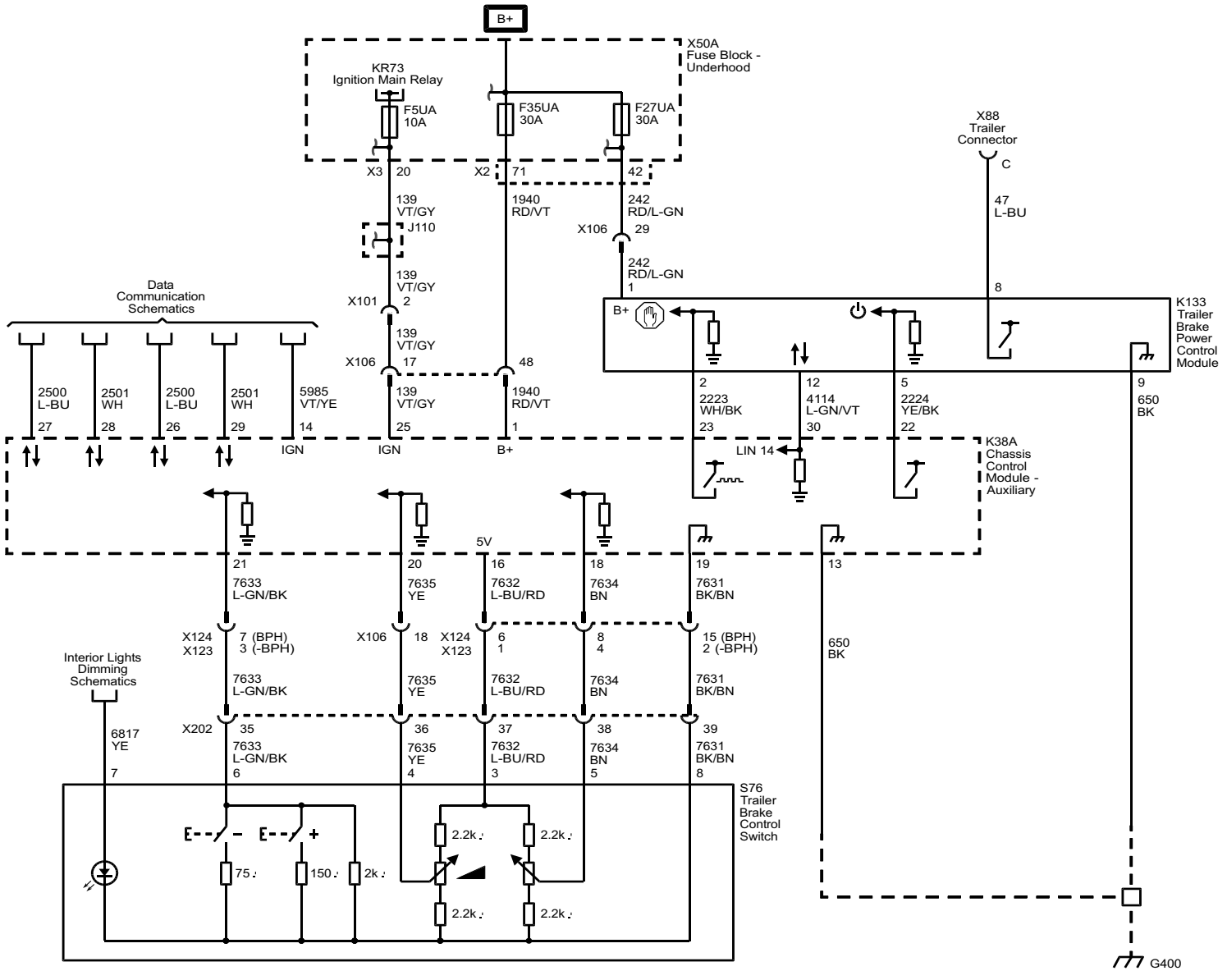
Schematic and Routing Diagrams

Trailer Brake Control Schematics (Trailer Brake (LWN))



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Trailer Brake Control Schematics (Trailer Brake (LGZ))



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Description and Operation

Trailer Brake Controls Description and Operation

A trailer brake control system is used to control the amount of trailer braking power that is made available to trailers with brakes that require a controlled electrical output signal for actuation.

The power output to the trailer brakes is based on both the amount of braking being applied by the vehicle's brake system and on the type of trailer brakes detected.

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

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

Trailer Brake Output Versus Trailer Brake Type

- The trailer brake system characterizes the trailer brakes as either Electric Brake or Electric Over Hydraulic Brake automatically. This characterization may be affected by the number, type, and age of the trailer brake magnets, as well as any other devices installed on the trailer brakes (i.e. adapters for Electric Over Hydraulic brake functionality).
- The trailer brake system is fully operational with either characterization.
- Some features of the trailer brake system may be different based on the trailer brake type characterization. An example of this is at zero speed, where pressing the service brake pedal will produce output when the trailer brakes are characterized as Electric Brakes, but not when characterized as Electric Over Hydraulic Brakes.
- Sliding the manual trailer brake apply lever will produce output at zero speed for either characterization.

The user gain allows the driver to adjust the amount of trailer brake output to match the trailer load and road surface. The controller determines the desired trailer brake output and provides a control signal to the K133 Trailer Brake Power Control Module. The K133 Trailer Brake Power Control Module amplifies the signal and provides the output required to activate the Electric or Electric Over Hydraulic trailer brakes.

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

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

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

The vehicle is equipped with the following trailer braking components:

- K38A Chassis Control Module-Auxiliary
- K133 Trailer Brake Power Control Module
- S76 Trailer Brake Control Panel
- Manual Trailer Brake Apply
- Trailer Gain Adjustment
- Trailer Brake Driver Information Center Display

Chassis Control Module-Auxiliary

The K38A Chassis Control Module-Auxiliary is a serviceable GMLAN module. The chassis control module sends the low power commanded duty cycle signal to the trailer brake power control module. The trailer brake power control module amplifies the signal and provides an output that is required to drive the trailer brakes.

Trailer Brake Power Control Module

The K133 Trailer Brake Power Control Module (TBPM) is a solid state power switching module that supplies power to the trailer brakes at the input command duty cycle. Diagnostic messages are sent from the TBPM to the CCM on a dedicated LIN bus.

Trailer Brake Control Panel

The S76 Trailer Brake Control Panel contains the trailer gain and manual apply switches. It is located on the instrument panel to the left of the steering column. Refer to the instrument panel overview for more information on the location. The control panel and switches allows you to adjust the amount of output, referred to as trailer gain, available to the Electric or Electric Over Hydraulic brakes. It also allows you to manually apply the trailer brakes. The trailer brake control panel and switches are used along with the trailer brake display page on the driver information center to adjust and display power output to the trailer brakes.

Manual Trailer Brake Apply

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

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

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

Trailer Gain Adjustment

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

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

Trailer Gain Adjustment Procedure

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

Hill Start Assist

The hill start assist allows the driver to launch the vehicle without a roll back when the driver is moving their foot from the brake pedal to the accelerator pedal. Refer to the hill start assist system in the anti-lock brake system description and operation document for more information.

Trailer Sway Control

The trailer sway control can detect the vehicle yaw instability, caused by an attached trailer. Refer to the trailer sway control system in the anti-lock brake system description and operation document for more information.

Driver Information Center Indicators and Messages

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

Trailer Connected

This message will be briefly displayed when a trailer with Electric or Electric Over Hydraulic brakes is first connected to the vehicle. This message will automatically turn off in about ten seconds. The driver can also acknowledge this message before it automatically turns off.

Check Trailer Wiring

This message will be displayed if:

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

Service Trailer Brake System

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

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

These conditions should be repaired to allow the trailer brake system to be fully functional.

Trailer Gain and Output Display

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

After the electrical connection is made to a trailer equipped with electric brakes or electric over hydraulic brakes, the TRAILER CONNECTED message will be

displayed momentarily on the DIC. The Trailer Brake Display Page can be selected on the DIC showing TRAILER GAIN and OUTPUT, after all vehicle related service messages are acknowledged by the driver.

Depending on which instrument panel cluster is in the vehicle, the DIC may display dashed lines, a greyed out display, or it may be blank signifying a disconnected trailer or a trailer brake fault condition.

Section 3

Power and Signal Distribution

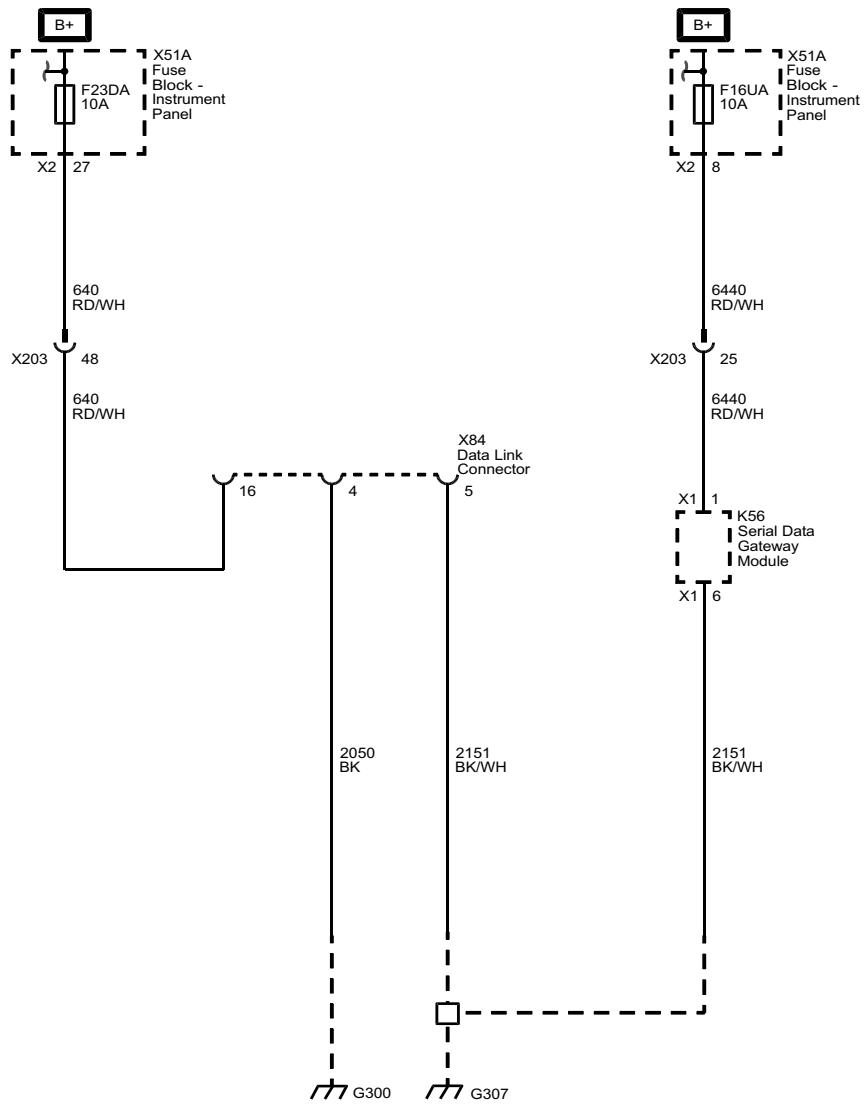
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Data Communications

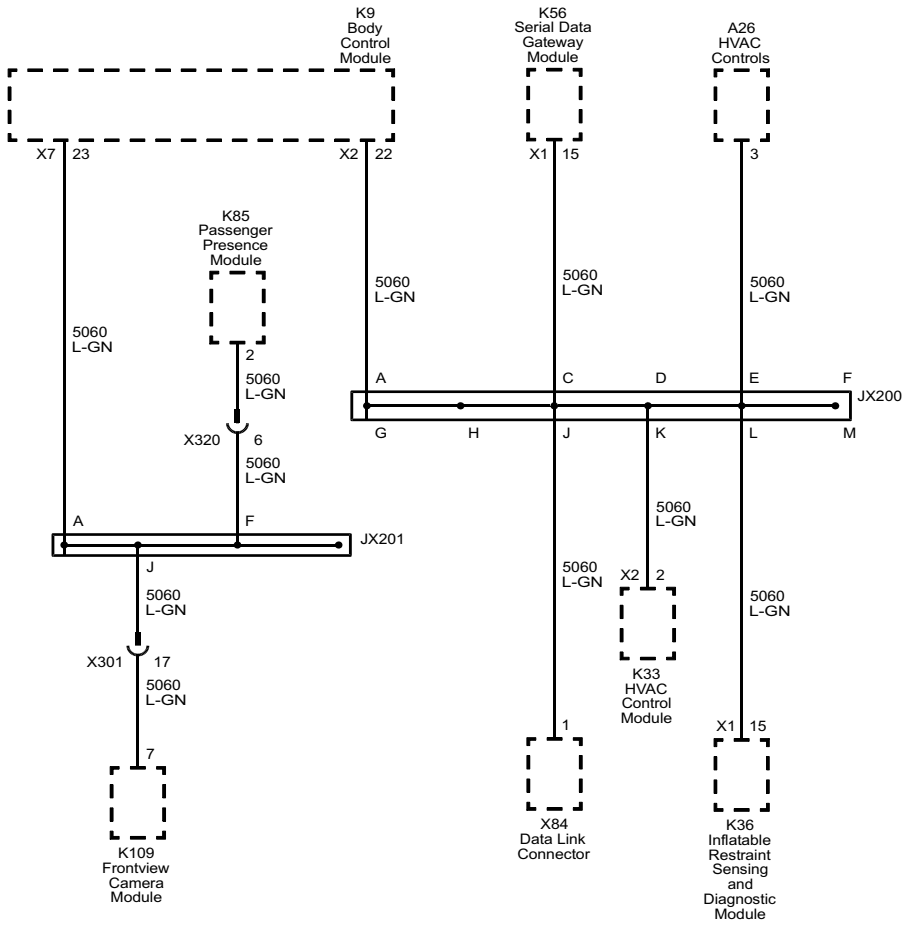
Schematic and Routing Diagrams

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

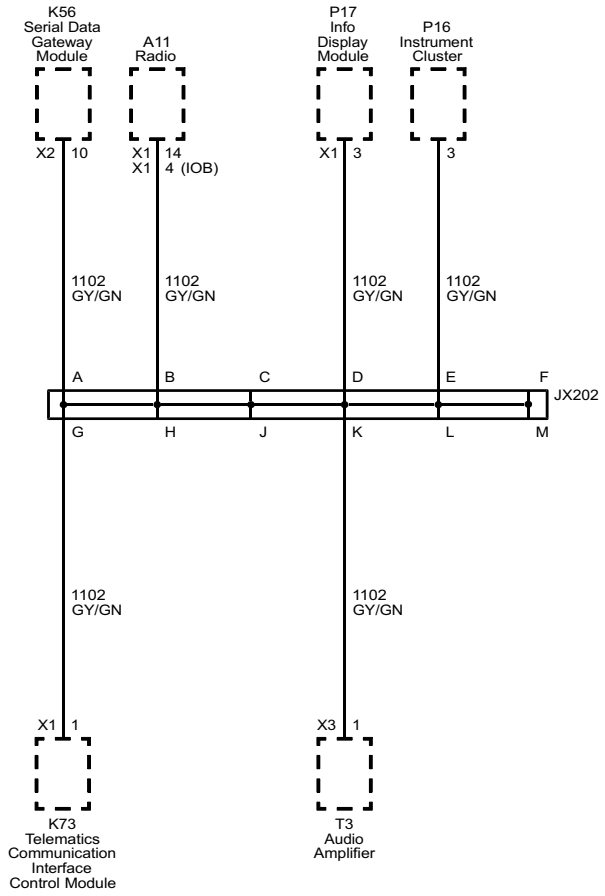


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Data Communication Schematics (Low Speed GMLAN)

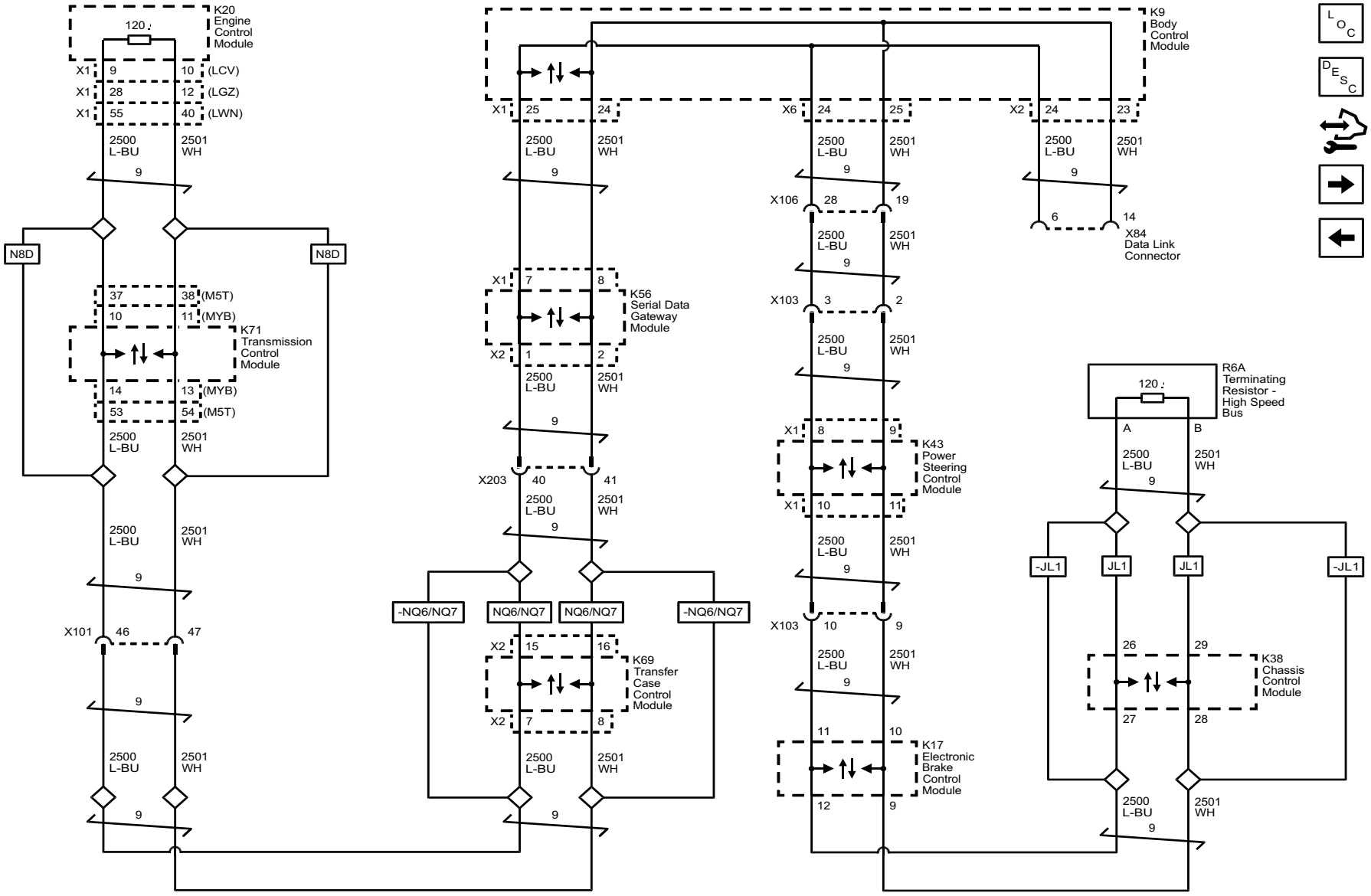


Data Communication Schematics (Isolated Low Speed GMLAN)



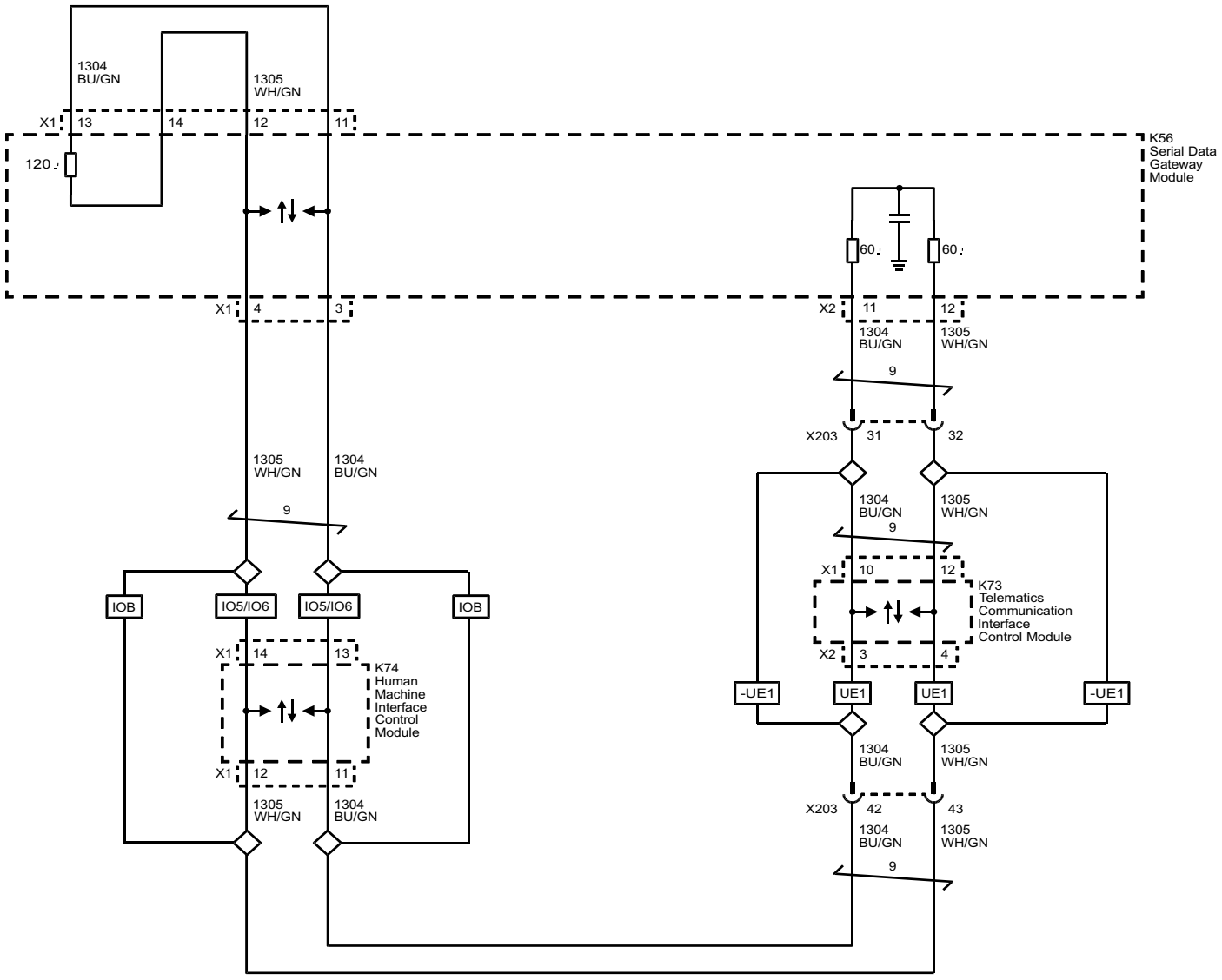
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Data Communication Schematics (High Speed GMLAN)



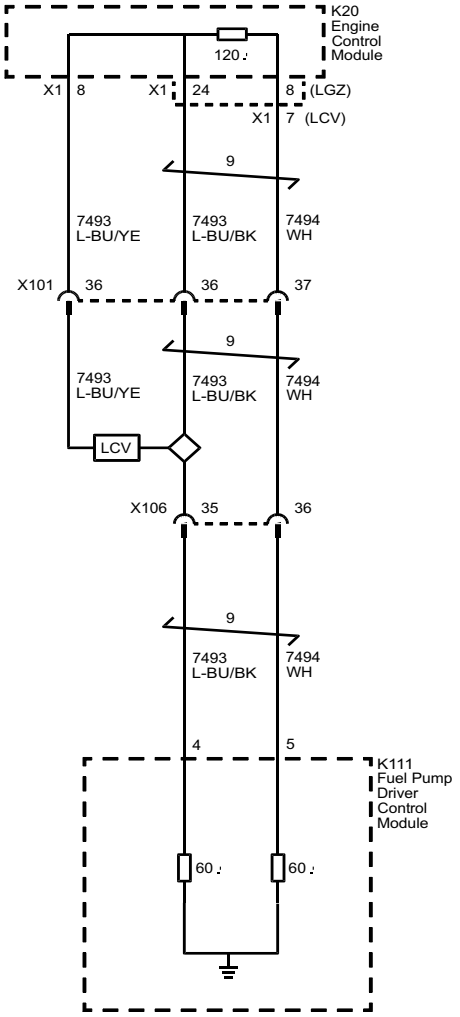
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Data Communication Schematics (Isolated High Speed GMLAN)



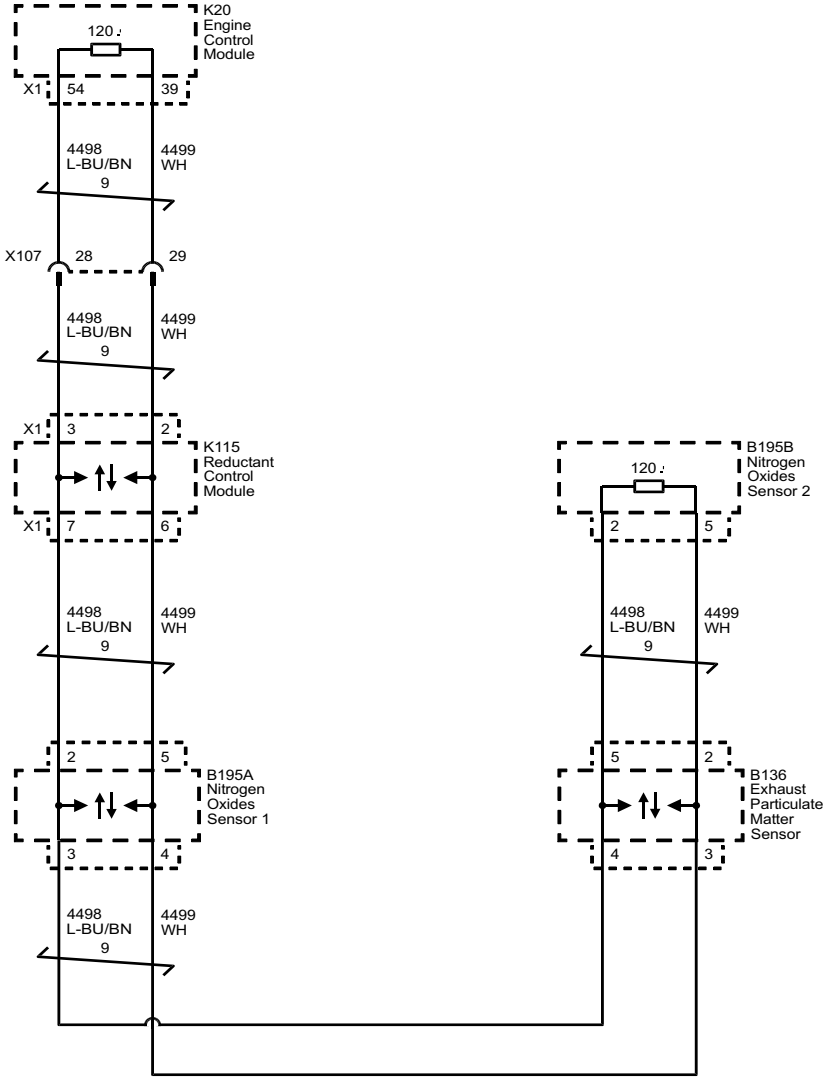
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Data Communication Schematics (Powertrain Expansion Bus (LCV,LGZ))



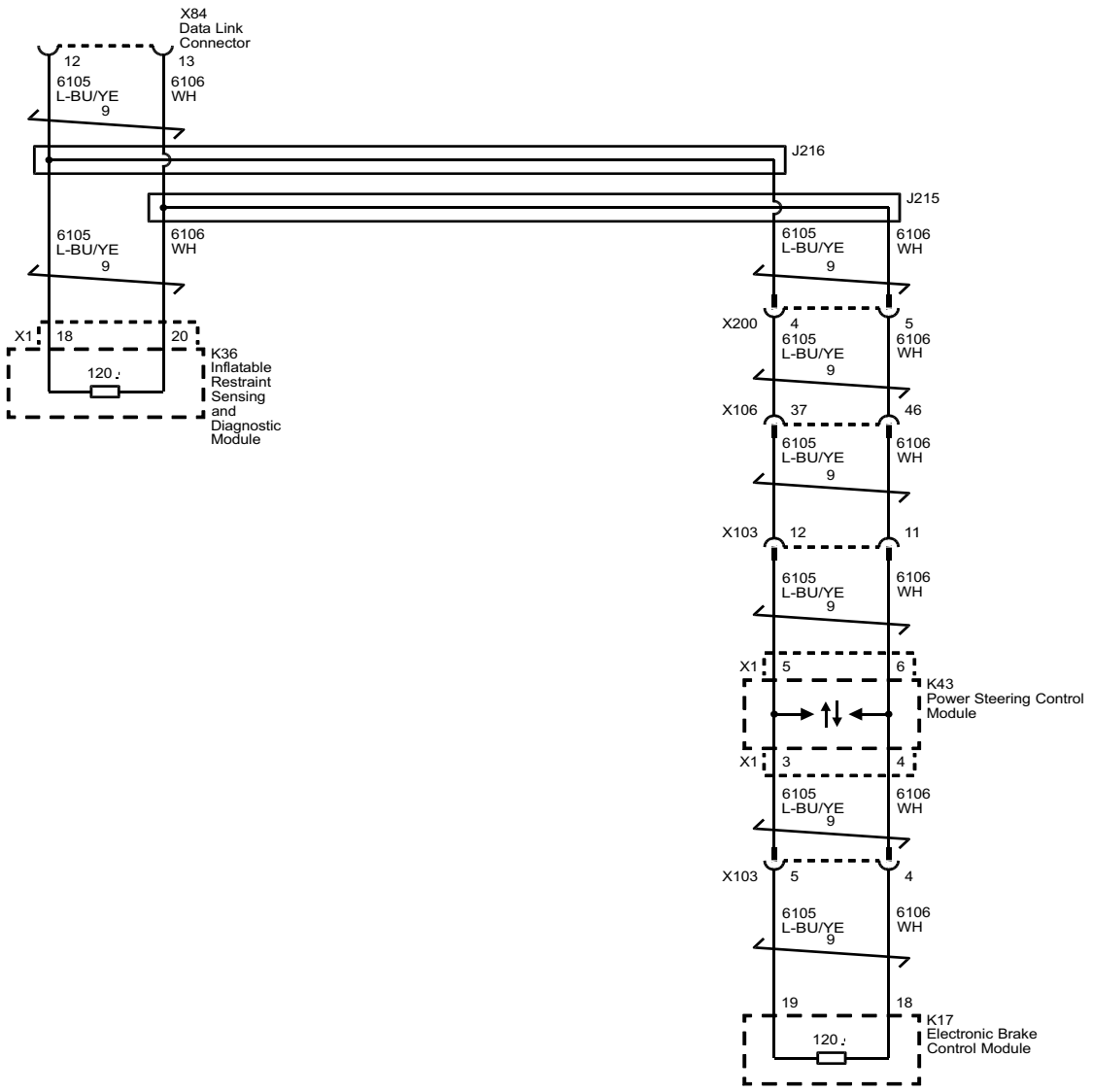
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Data Communication Schematics (Powertrain NOX Bus (LWN))

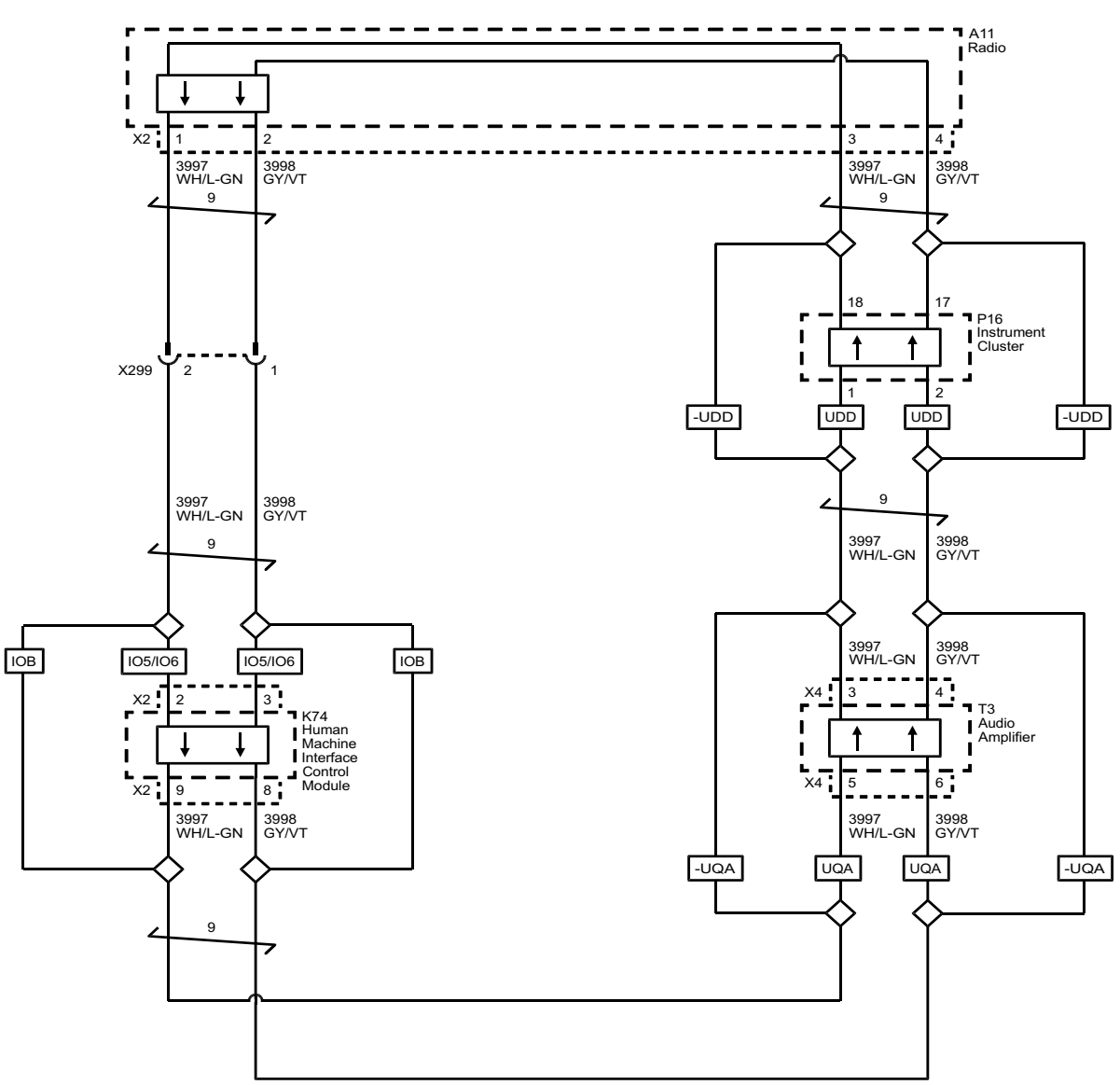


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Data Communication Schematics (Chassis High Speed GMLAN)

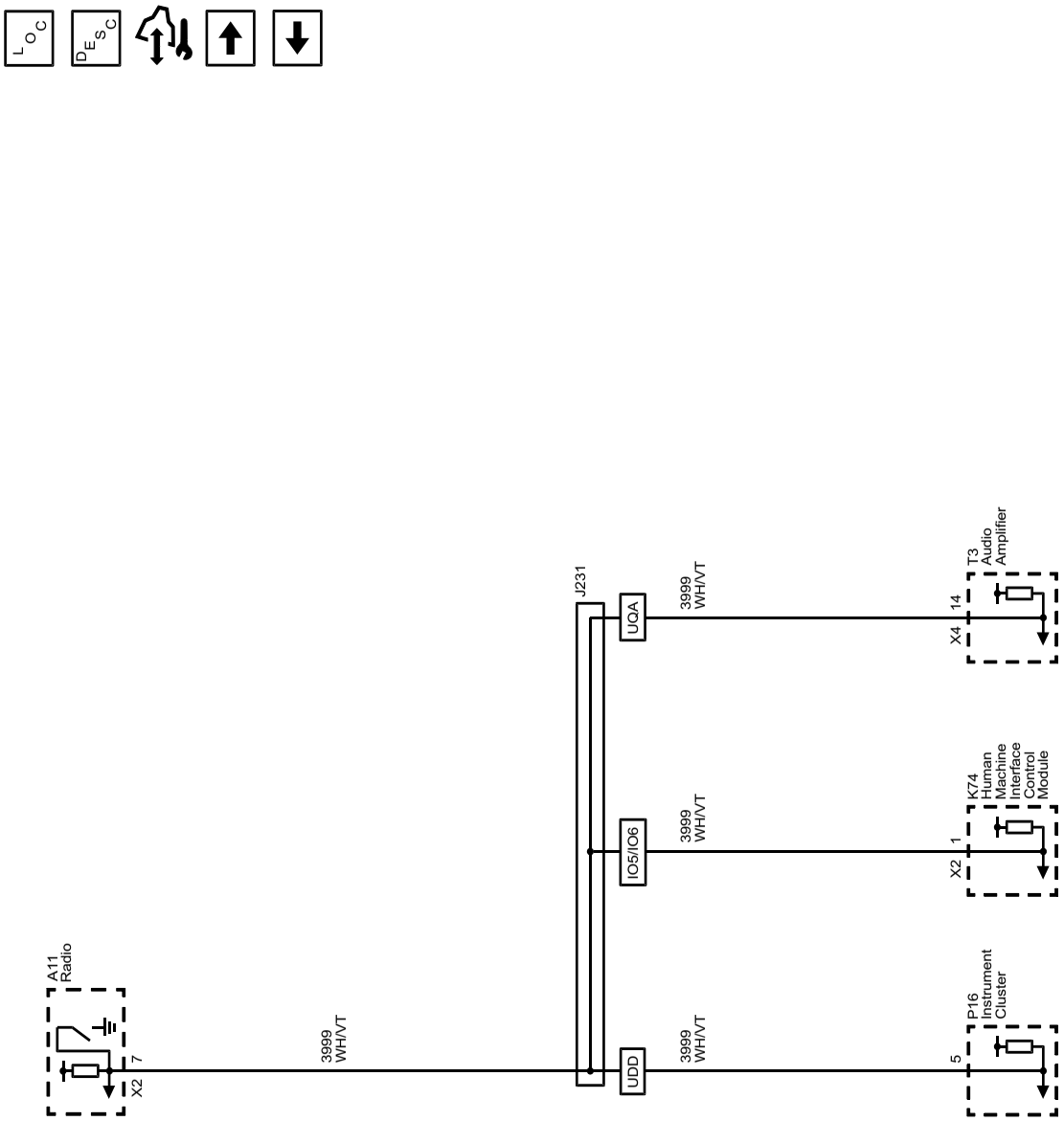


Data Communication Schematics (MOST Communication Bus)

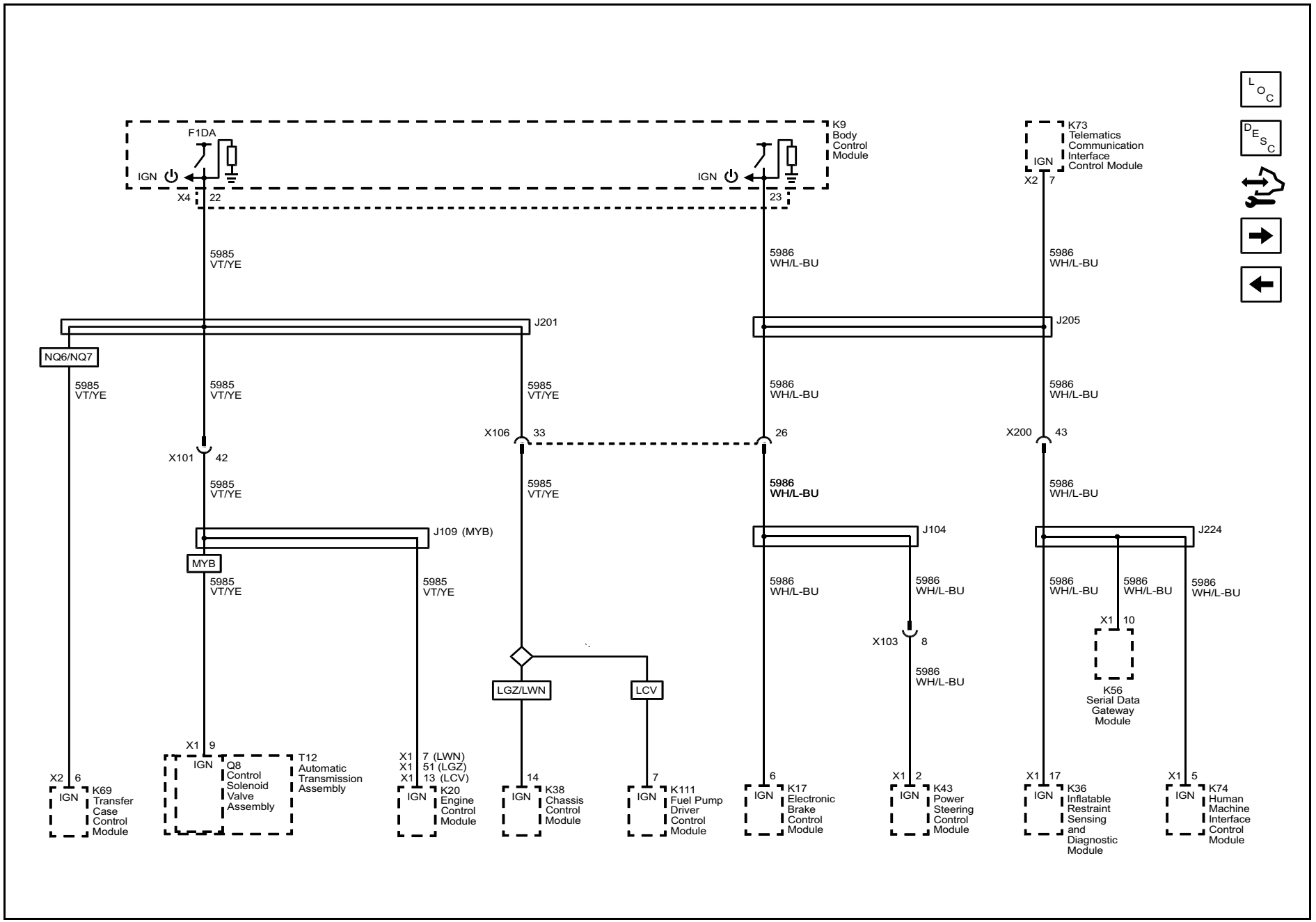


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Data Communication Schematics (MOST Communication Enable)

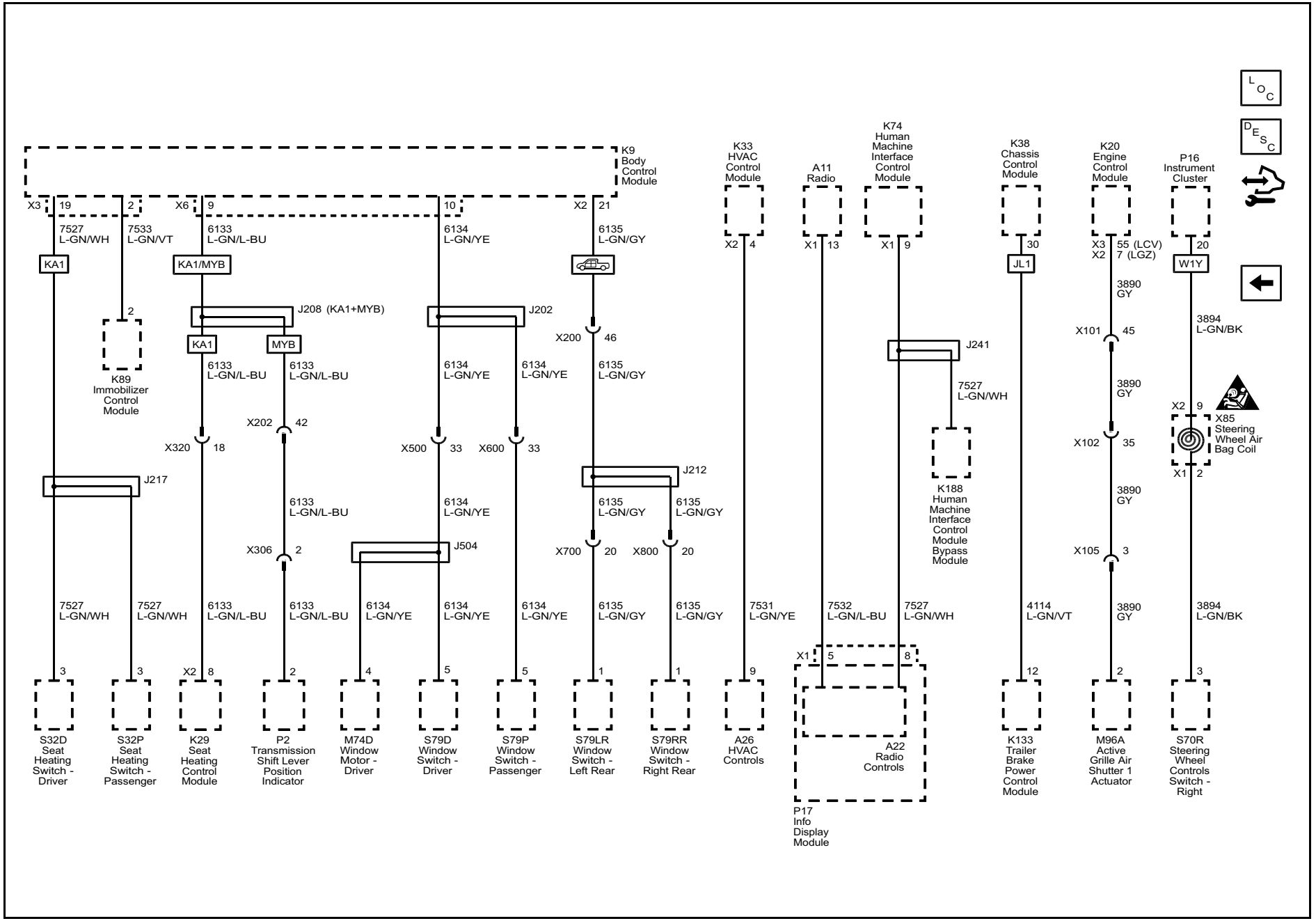


Data Communication Schematics (Accessory Wakeup and Communications Enable)



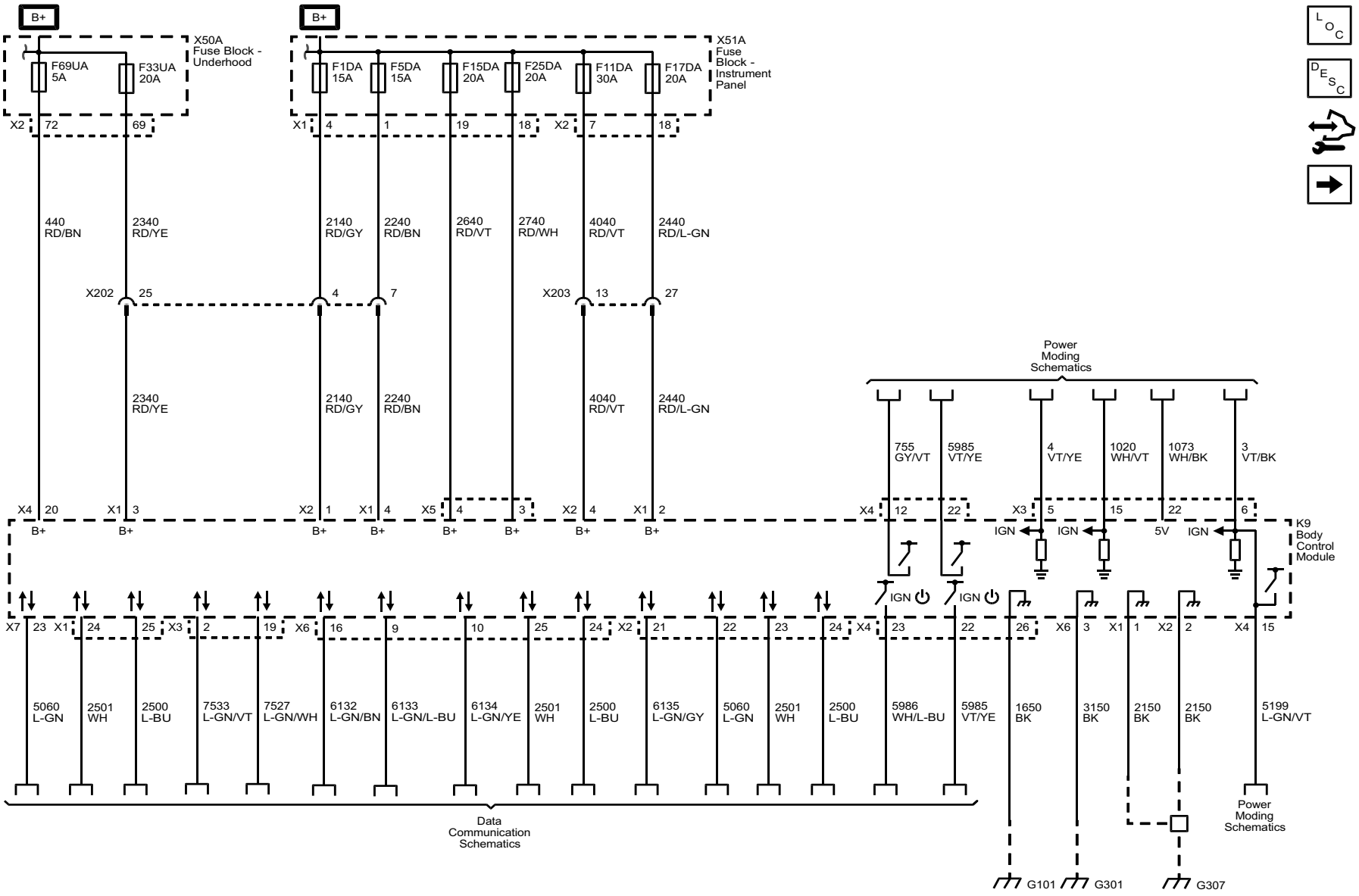
4699098

Data Communication Schematics (Linear Interconnect Network)



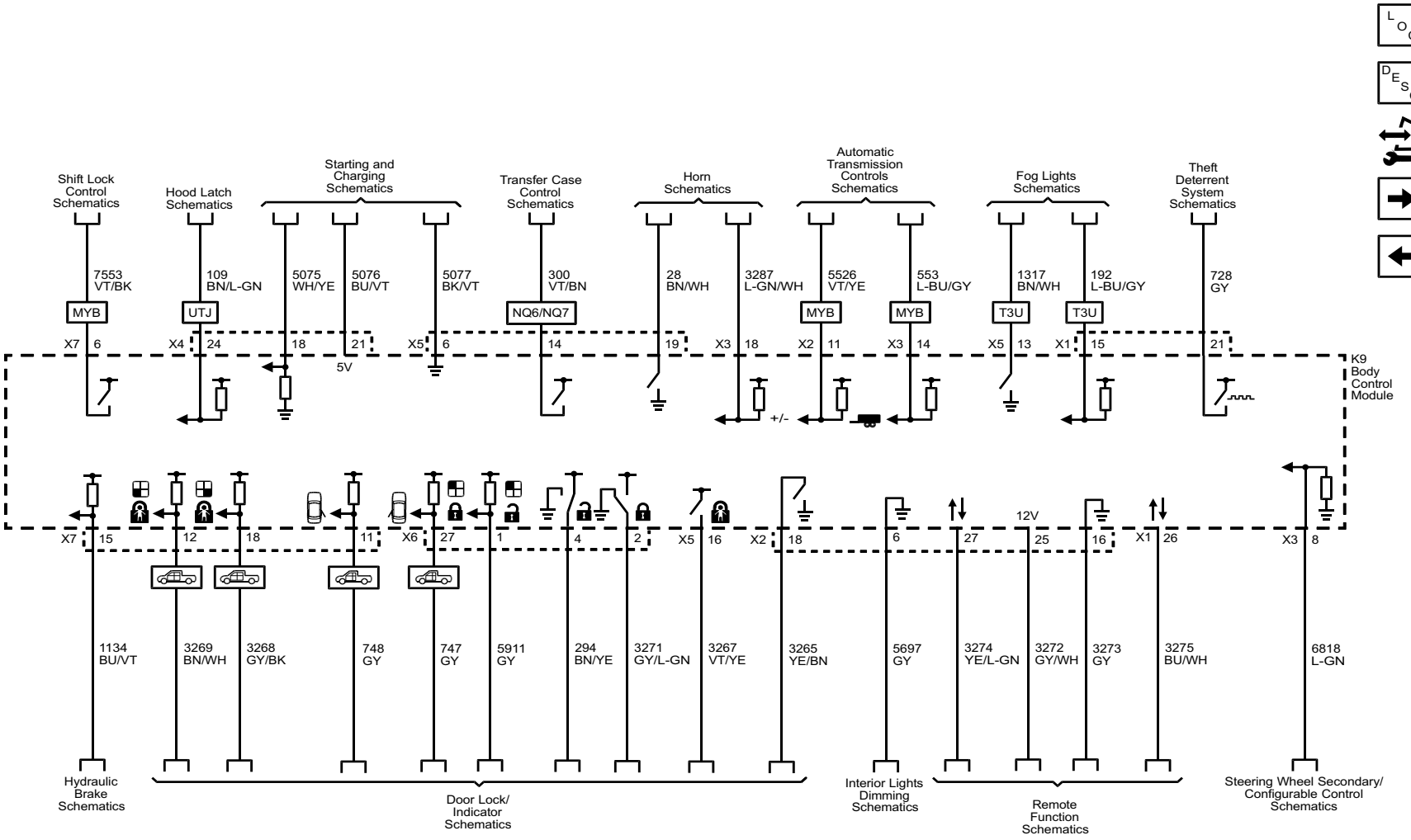
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Body Control System Schematics (Power, Ground, and Serial Data)



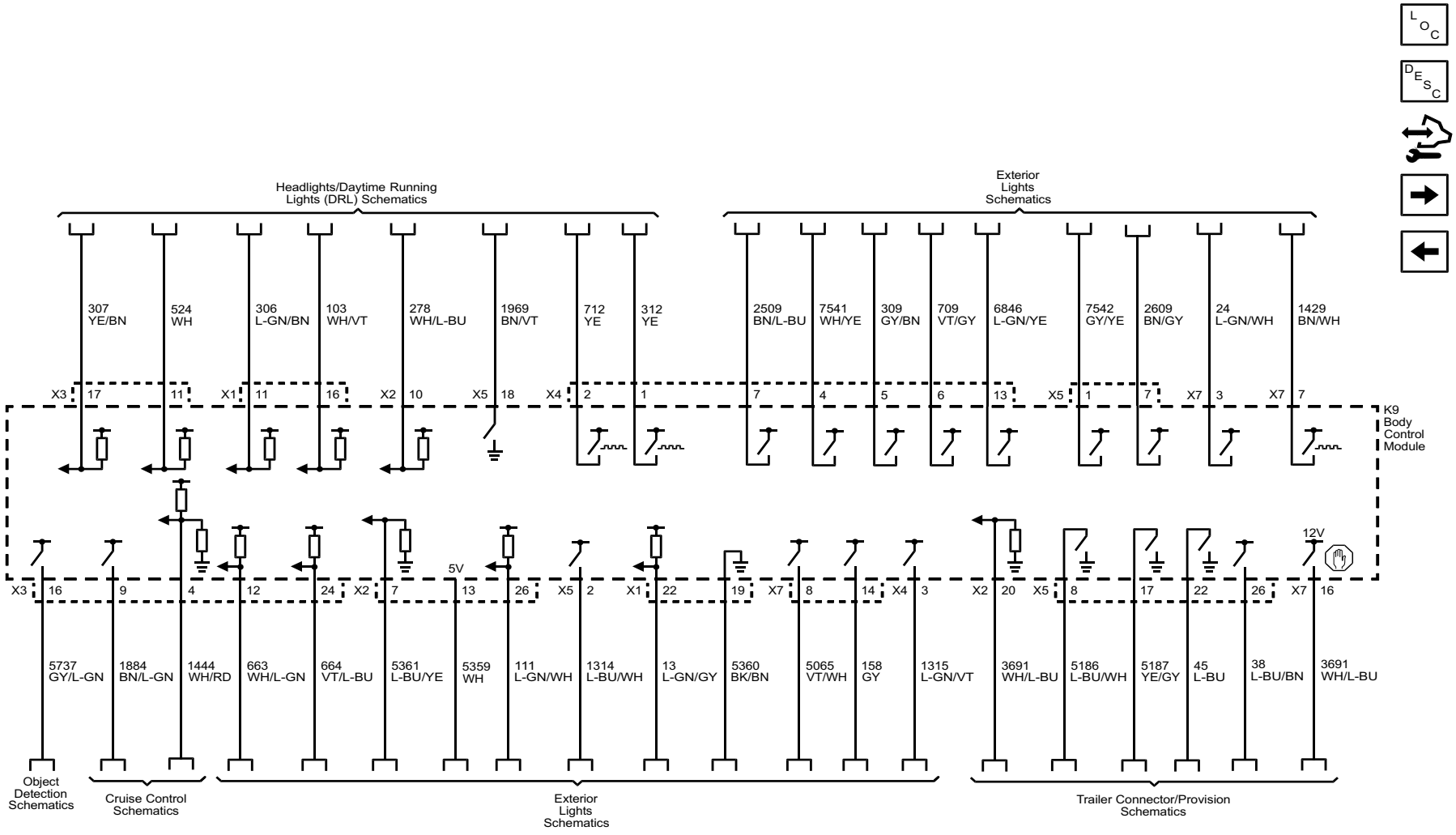
4699102

Body Control System Schematics (Subsystem References (1 of 3))



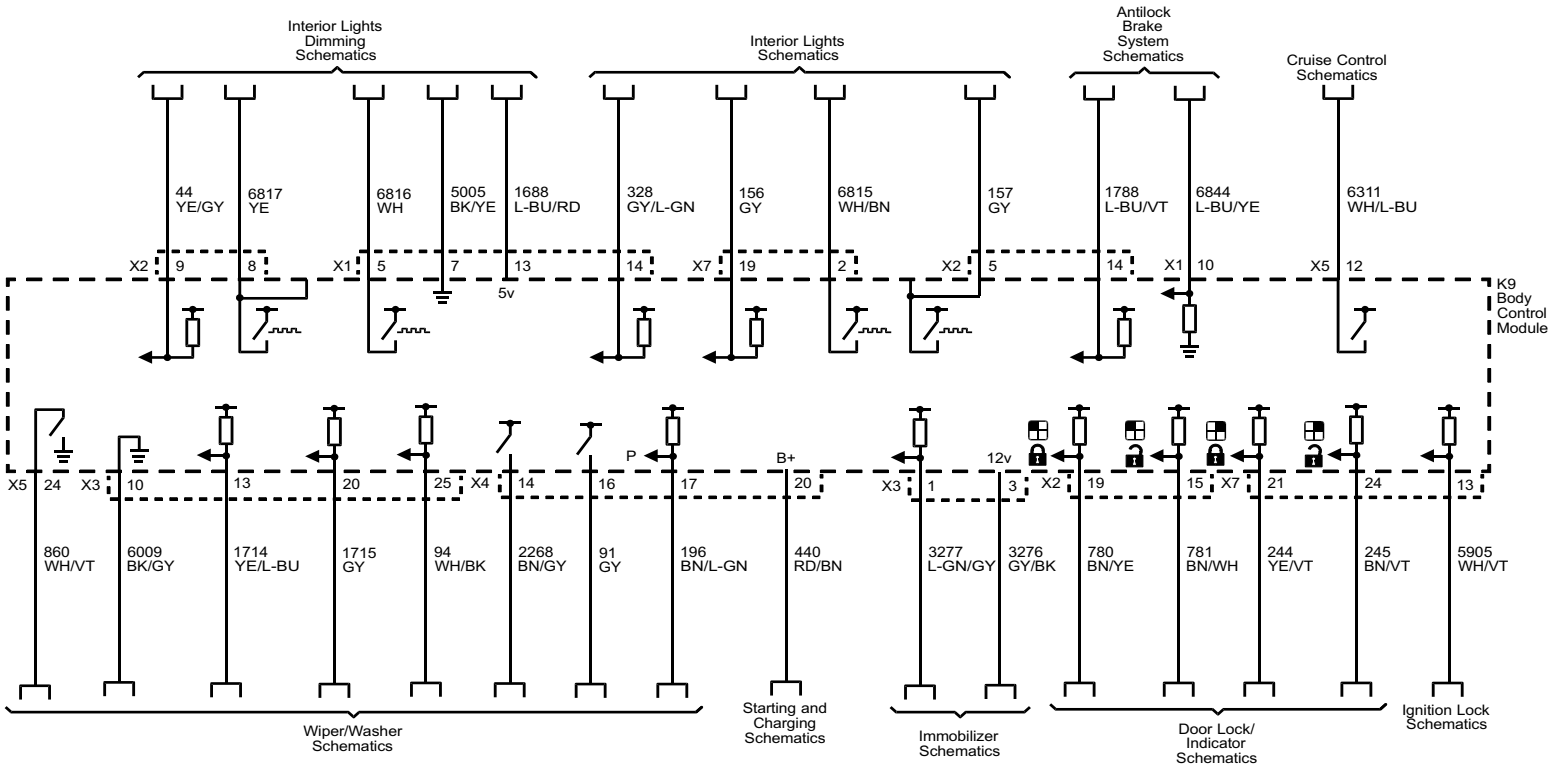
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Body Control System Schematics (Subsystem References (2 of 3))



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



4699109

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 high speed GMLAN serial data bus, low speed GMLAN serial data bus and Multiple LIN buses and acts as a gateway between them.

Power Mode Master

This vehicle body control module (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 determining the power mode that will be sent over the serial data circuits to the other modules that need this information; the PMM will activate relays and other direct outputs of the PMM as needed. Refer to *Power Mode Description and Operation on page 3-654* for a complete description of power mode functions.

Gateway

The body control module (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.

All communication between the BCM and a scan tool is on the high speed GMLAN serial data circuits. A lost communication DTC typically is set in modules other than the module with a communication failure.

Body Control

The various body control module (BCM) input and output circuits are illustrated in the corresponding functional areas on the BCM electrical schematics. Refer to the *Body Control System Schematics on page 3-16* for more detailed information.

Data Link Communications Description and Operation

Note: This is an overview of different serial data buses used by GM devices to communicate with each others. Use *Data Communication Schematics on page 3-4* to find out which serial data buses are configured for a specific vehicle.

Circuit Description

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

GM uses a number of different communication buses to insure the timely and efficient exchange of information between devices. When compared to each other, some of these buses are different in nature as far as speed, signal characteristics, and behavior. An example of this is the High Speed GMLAN and Low Speed GMLAN buses.

On the other hand, when other buses are compared to each other they have similar characteristics and simply operate in parallel. In this case they are used to group together components which have high interaction. Examples are the High Speed GMLAN, Powertrain Expansion, and Chassis Expansion buses. This allows them to communicate with each other on a bus with reduced message congestion insuring faster and the more timely exchange of information than if all vehicle devices were on a single bus.

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

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

High Speed GMLAN Circuit Description

A High Speed GMLAN Bus is used where data needs to be exchanged at a high enough rate to minimize the delay between the occurrence of a change in sensor value and the reception of this information by a control device using the information to adjust vehicle system performance.

The High Speed GMLAN serial data network consists of two twisted wires. One signal circuit is identified as GMLAN-High and the other signal circuit is identified as GMLAN-Low. At each end of the data bus there is a 120 Ω termination resistor between the GMLAN-High and GMLAN-Low circuits.

Data symbols (1’s and 0’s) are transmitted sequentially at a rate of 500 Kbit/s. The data to be transmitted over the bus is represented by the voltage difference between the GMLAN-High signal voltage and the GMLAN-Low signal voltage.

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

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

Chassis High Speed GMLAN Circuit Description

The GMLAN Chassis Expansion Bus is basically a copy of the High Speed GMLAN Bus except that its use is reserved for chassis components. This implementation splits message congestion between two parallel buses helping to insure timely message transmission and reception. Sometimes communication is required between the Chassis Expansion Bus and the primary High Speed GMLAN Bus. This is accomplished by using the K17 Electronic Brake Control Module (EBCM) as the Gateway module. Since the High Speed GMLAN Chassis Expansion Bus and primary High Speed GMLAN Bus operate in the same manner, the diagnostics for each are similar.

Powertrain High Speed GMLAN Circuit Description

The GMLAN Powertrain Expansion Bus is basically a copy of the High Speed GMLAN Bus except that its use is reserved for Powertrain components. The bus is optional based upon feature content. Sometimes communication is required between the Powertrain Expansion Bus and the primary High Speed GMLAN Bus. This is accomplished by using the K20 Engine Control Module (ECM) as the Gateway module. Since the High Speed GMLAN Powertrain Expansion Bus and the primary High Speed GMLAN Bus operate in the same manner, the diagnostics for each are similar.

Media Oriented Systems Transport (MOST) Circuit Description

The MOST Infotainment network is a dedicated high speed multimedia streaming data bus independent from GMLAN. The MOST bus will be configured in a physical hardwired loop with each device within the bus sends and receives data on an assigned MOST addresses in a set order. Each device on the MOST bus will be required to have twisted pair copper wires (2 transmit TX, 2 receive RX, and 1 electronic control line which is a 12 V wakeup signal line). The A11 Radio is the MOST Master and will monitor the bus for vehicle configuration, Infotainment data messages and errors on the bus. The MOST initialization consists of a short 100 ms low voltage pulse on the electronic control line (or MOST control line) connected to all devices contained on the MOST ring. This wakeup message once received by each device, will first respond with a generic device response. Once these initial responses on the MOST bus are reported successfully without error to the A11 Radio, the second data request will record the MOST device addresses, their functionality requirements and capabilities within. The A11 Radio will learn this information and also record the address node sequence on the MOST bus at this point. This node address list will now be stored within the A11 Radio as the MOST bus configuration (called “Last Working MOST ID of Node 1 – 9” on scan tool data display).

When MOST receive, transmit, or control line faults are detected, transmit/receive messages will not received as expected from the wakeup request. The A11 Radio and the K74 Human Machine Interface Control Module will then perform diagnostics to isolate these MOST faults. If the MOST control line is shorted low to 0 V for excess amount of time, the A11 Radio will set a U2098 DTC and K74 Human Machine Interface Control Module will set a U0029 02 DTC. At this point the MOST bus will be unable to communicate until the shorted MOST control line is repaired.

Once the shorted MOST control line diagnostics pass, the A11 Radio will attempt to resend the initial short pulse attempts up to 3 times on the MOST control line. If the expected responses are not received, the A11 Radio continues into a failure mode setting a U0028 DTC and will continue on to send one 300 ms long pulse, which will enable the furthest upstream transmitting device to become the surrogate MOST Master in this MOST fault/diagnostic mode. When the A11 Radio receives this new MOST Master identity, the surrogate MOST master device can be identified based on scan tool data parameter “Surrogate MOST Master Node Upstream Position”. The scan tool should be used to determine the MOST bus configuration and direction by utilizing the “Last Working MOST ID of Node 1 – 9” parameters from the A11 Radio data display. When a fault is present, it will indicate the newly enabled “Surrogate MOST Master Node Upstream Position” from the A11 Radio. This will assist in determining where the MOST bus/control is at fault. The MOST device upstream from the surrogate MOST master device, transmit, receive, or control lines will be the suspect areas for diagnostics at this point. These faults can be associated with any of the MOST transmit, receive, or control line twisted copper wires or possibly an internal device fault.

The K74 Human Machine Interface Control Module will set a U0029 00 DTC when it diagnoses a MOST bus not communicating properly after one attempt. When the DTC U0029 00 is set by the K74 Human Machine Interface Control Module without the corresponding DTC U0028 from the A11 Radio, it will be an indication of an intermittent wiring/device condition.

Low Speed GMLAN Circuit Description

Low Speed GMLAN Bus is used in applications where a high data rate is not required which allows for the use of less complex components. It is typically used for operator controlled functions where the response time requirements are slower than those required for dynamic vehicle control.

The Low Speed GMLAN Serial Data Network consists of a single wire, ground referenced bus with high side voltage drive. During on road vehicle operation data symbols (1’s and 0’s) are transmitted sequentially at the normal rate of 33.3 Kbit/s. For component programming only, a special high speed data mode of 83.3 Kbit/s may be used.

Unlike the high speed dual wire networks, the single wire low speed network does not use terminating resistors at either end of the network.

The data symbols to be transmitted over the bus are represented by different voltage signals on the bus. When the Low Speed GMLAN Bus is at rest and is not being driven, there is a low signal voltage of approximately 0.2 V. This represents a logic “1”. When a logic “0” is to be transmitted, the signal voltage is driven higher to around 4.0 V or higher.

Local Interconnect Network (LIN) Circuit Description

The Local Interconnect Network (LIN) Bus consists of a single wire with a transmission rate of 10.417 Kbit/s. This bus is used to exchange information between a master control module and other smart devices which provide supporting functionality. This type of configuration does not require the capacity or speed of either a High Speed GMLAN Bus or Low Speed GMLAN Bus and is thus relatively simpler.

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

Communication Enable Circuit Description

Devices on High Speed GMLAN Bus enable or disable communication based on the voltage level of the communication enable circuit. When the circuit voltage is high (around 12 V), communications are enabled. When the circuit is low, communications are disabled.

Data Link Connector (DLC)

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

- Terminal 1 Low speed GMLAN communications terminal
- Terminal 4 Scan tool power ground terminal
- Terminal 5 Common signal ground terminal
- Terminal 6 High speed GMLAN serial data bus (+) terminal
- Terminal 12 Chassis high speed GMLAN serial bus (+) terminal
- Terminal 13 Chassis high speed GMLAN serial bus (-) terminal
- Terminal 14 High speed GMLAN serial data bus (-) terminal
- Terminal 16 Scan tool power, battery positive voltage terminal

Serial Data Reference

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

Serial Data Gateway Module Description and Operation

The K56 Serial Data Gateway Module is used to handle communications between multiple GMLAN busses and functions as a gateway to isolate the secure networks from the unsecured networks. It was created to mitigate bus loading to support cyber security and new active/advanced safety features like Limited Ability Autonomous Driving and Enhanced Collision Avoidance (if equipped). The K56 Serial Data Gateway Module is used as a frame-to-frame gateway for all functional messages.

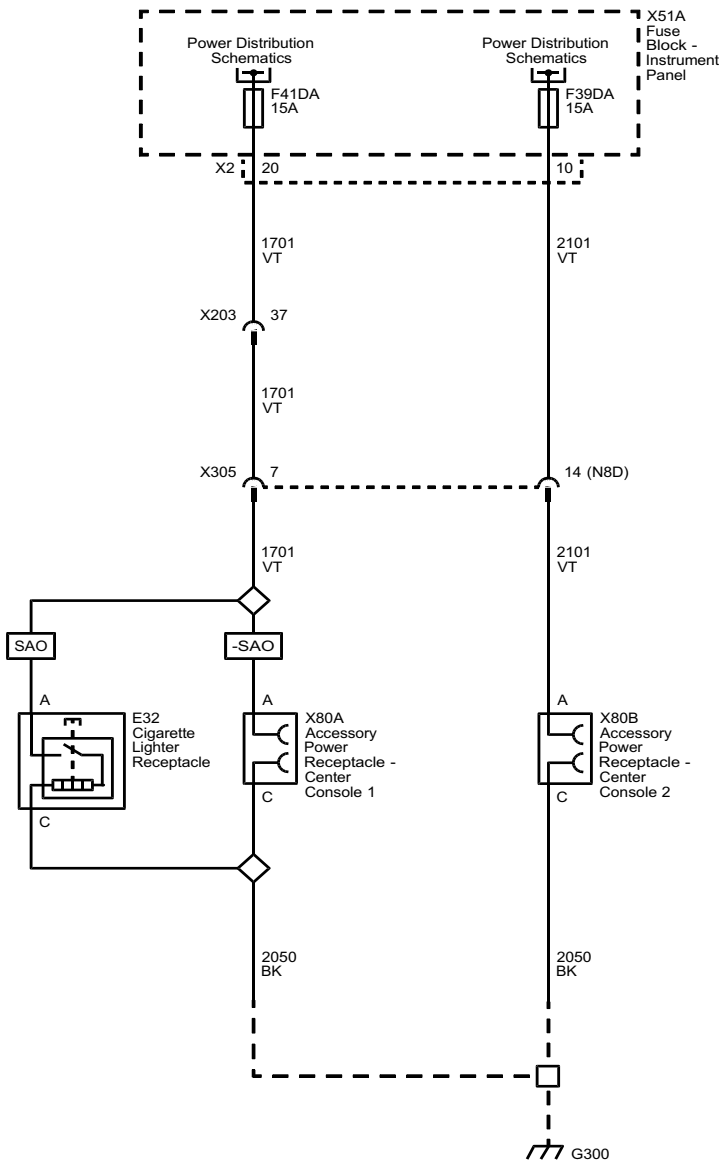
Depending on the vehicle contents, the K56 Serial Data Gateway Module is gating between primary High Speed GMLAN Bus, Gateway Expansion High Speed GMLAN Bus, Gateway Isolated High Speed GMLAN Bus, and Chassis High Speed GMLAN Bus. The K56 Serial Data Gateway Module is also gating between primary Low Speed GMLAN Bus and Gateway Isolated Low Speed GMLAN Bus.

Communication between the K56 Serial Data Gateway Module and a scan tool is done through the primary High Speed GMLAN Bus.

Power Outlets

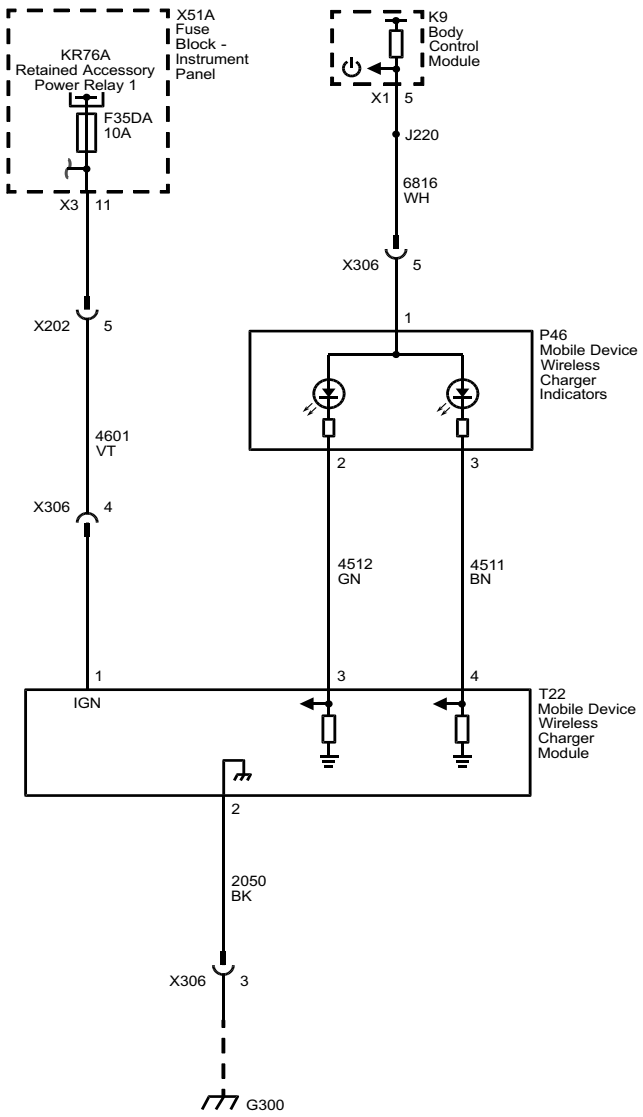
Schematic and Routing Diagrams

Cigar Lighter/Power Outlet Schematics (12-Volt DC Power Outlets)



4699111

Cigar Lighter/Power Outlet Schematics (Wireless Charging (K4C))



4699112

Description and Operation

Mobile Device Wireless Charger Description and Operation

Mobile Device Wireless Charging System

The Mobile Device Wireless Charging System (WCS) is an system for wirelessly charging mobile devices. It is capable of charging the batteries of compatible mobile devices. A compatible device is one that is compliant with Power Matters Alliance (PMA) or Wireless Power Consortium (WPC) Standard, meaning that it is equipped with a PMA or WPC wireless charge “receiver” that will work with the charge “transmitter” installed in the vehicle. The devices may utilize built-in charging circuitry or an adapter (external plug-in device which contains the charging circuitry). To check for phone or other device compatibility, refer to GM Total Connect.

Warning: Remove all objects from the charging pad before charging your mobile device. Objects, such as coins, keys, rings, paper clips, or cards, between the phone and charging pad will become very hot. On the rare occasion that the charging system does not detect an object, and the object gets wedged between the phone and charger, remove the phone and allow the object to cool before removing it from the charging pad, to prevent burns.

Charging

To charge a device, place it on the charging surface in the vehicle. There is a charging coil located in the center of the charging surface. The device has a charging coil typically near the center of the device. These coils must be lined up in order for charging to proceed. When the interruptible retained accessory power (IRAP) relay is closed (this is true typically when vehicle ignition is in Run or Accessory position), the WCS will detect the device, establish communications with the device to confirm it is a compatible device, and then deliver charging power to the device via wireless interface. The WCS will be able to deliver up to 5W of power to compatible devices. It shall only enter a charging state if communication is established and a compatible device is identified.

The WCS shall not enter a charging state if there is no communication established with a compatible device. If a non-compatible device or metallic foreign object is detected, the WCS will not transfer power. The charger monitors its internal temperature and will shut down if the charger temperature exceeds 185F (85C).

Indicator

The body control module supplies voltage to the Mobile Device Wireless Charger Indicators. When a mobile device or foreign object is placed on the charging pad the Mobile Device Wireless Charger Module will supply ground the appropriate control circuit turning on the indicator. The indicator is located next to the charging pad and will illuminate green (charging) when a compliant device is placed on the charging pad and will illuminate yellow (fault) when a foreign object is placed on the charging pad.

Power Outlets Description and Operation

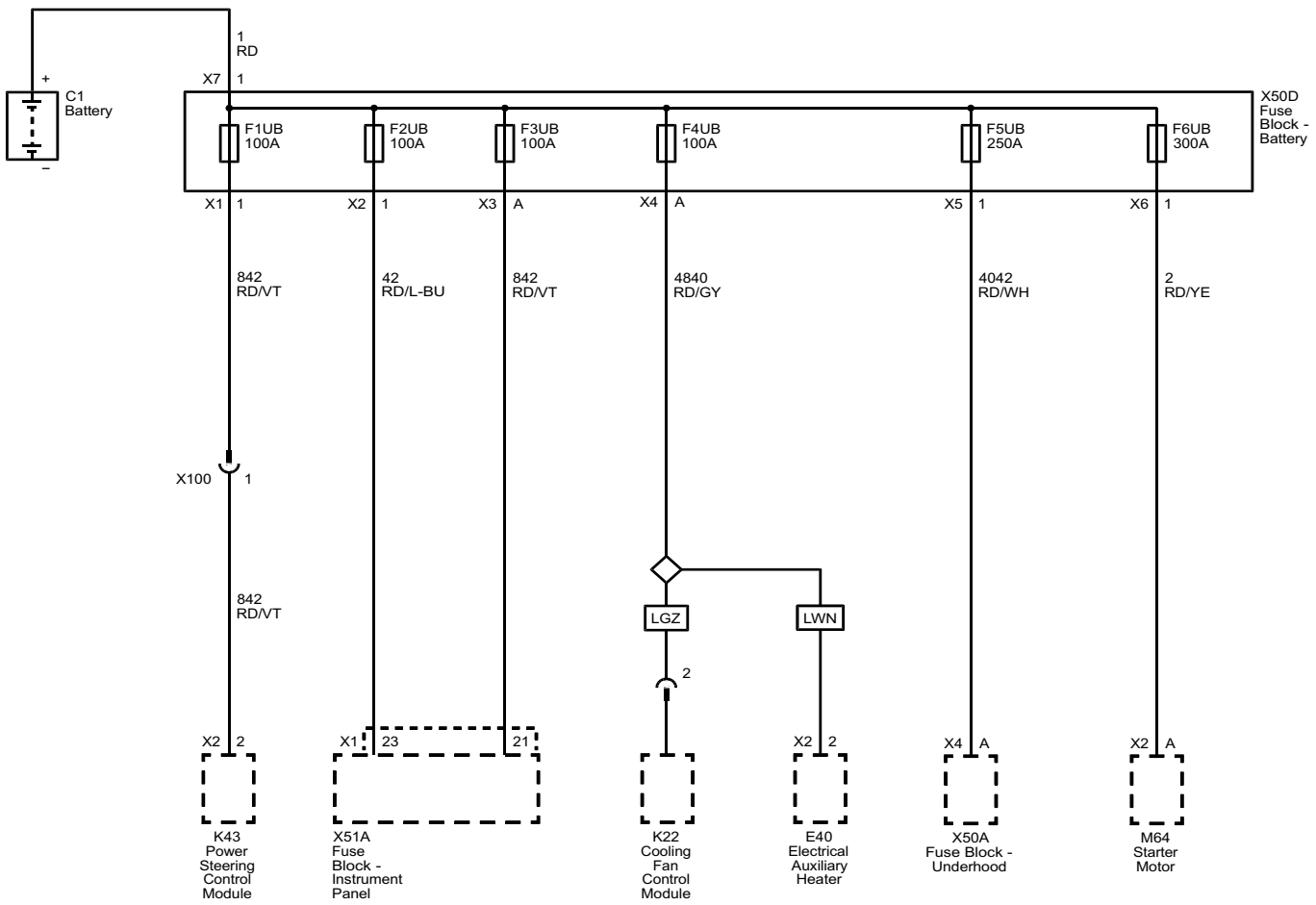
Power Outlet Receptacle Description and Operation

The vehicle is fitted with 12 V accessory power receptacles. The accessory power receptacles are controlled by an ignition operated relay. The accessory power receptacles are operational when the ignition is turned to either the On or the Accessories positions. The accessory power receptacles may be configured to be operational when the ignition is Off by changing the position of the 50A fuse from the F44DA position to the F40DA position in the instrument panel fuse block.

Wiring Systems and Power Management

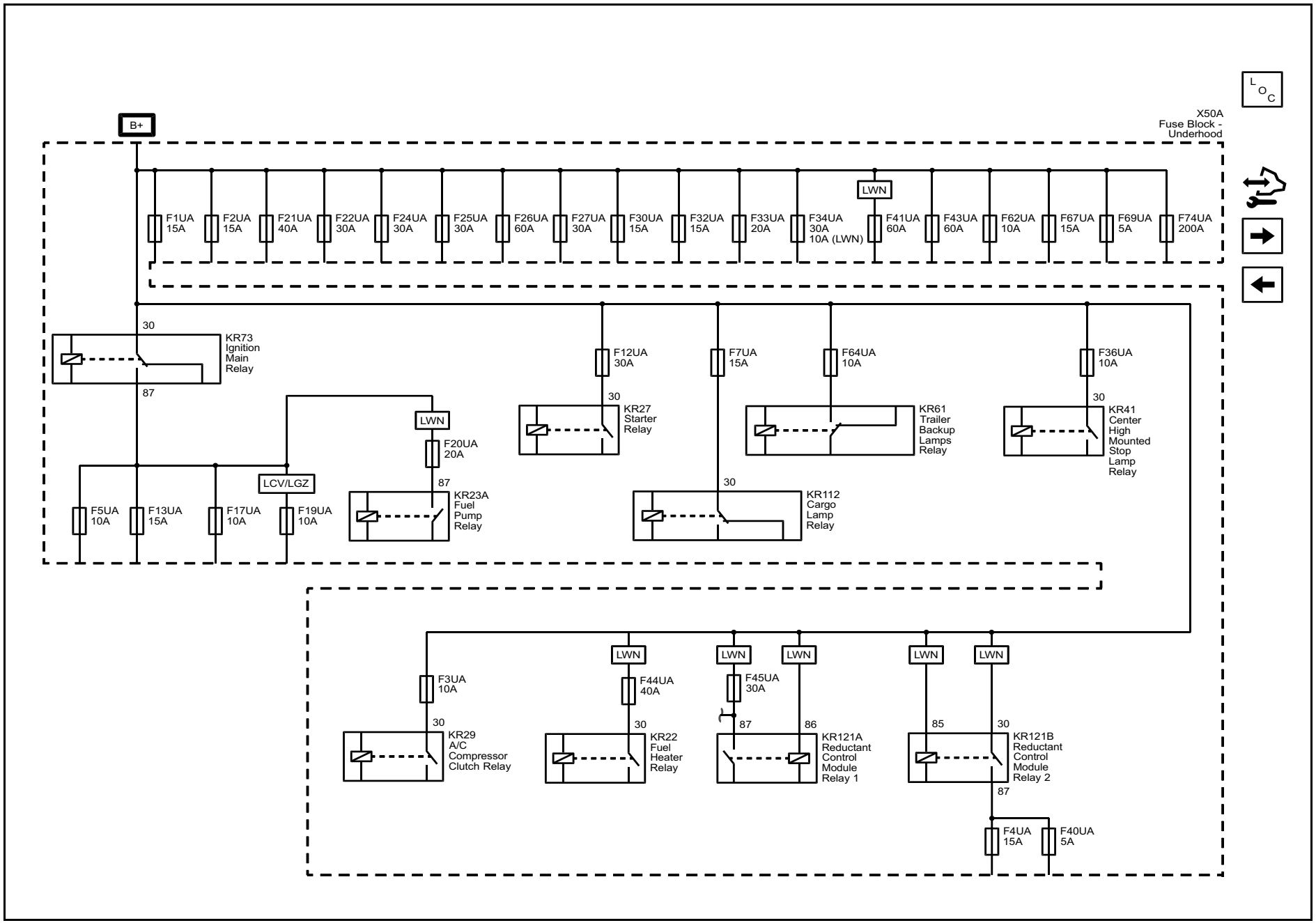
Schematic and Routing Diagrams

Power Distribution Schematics (B+ Bus X50D Fuse Block - Battery)



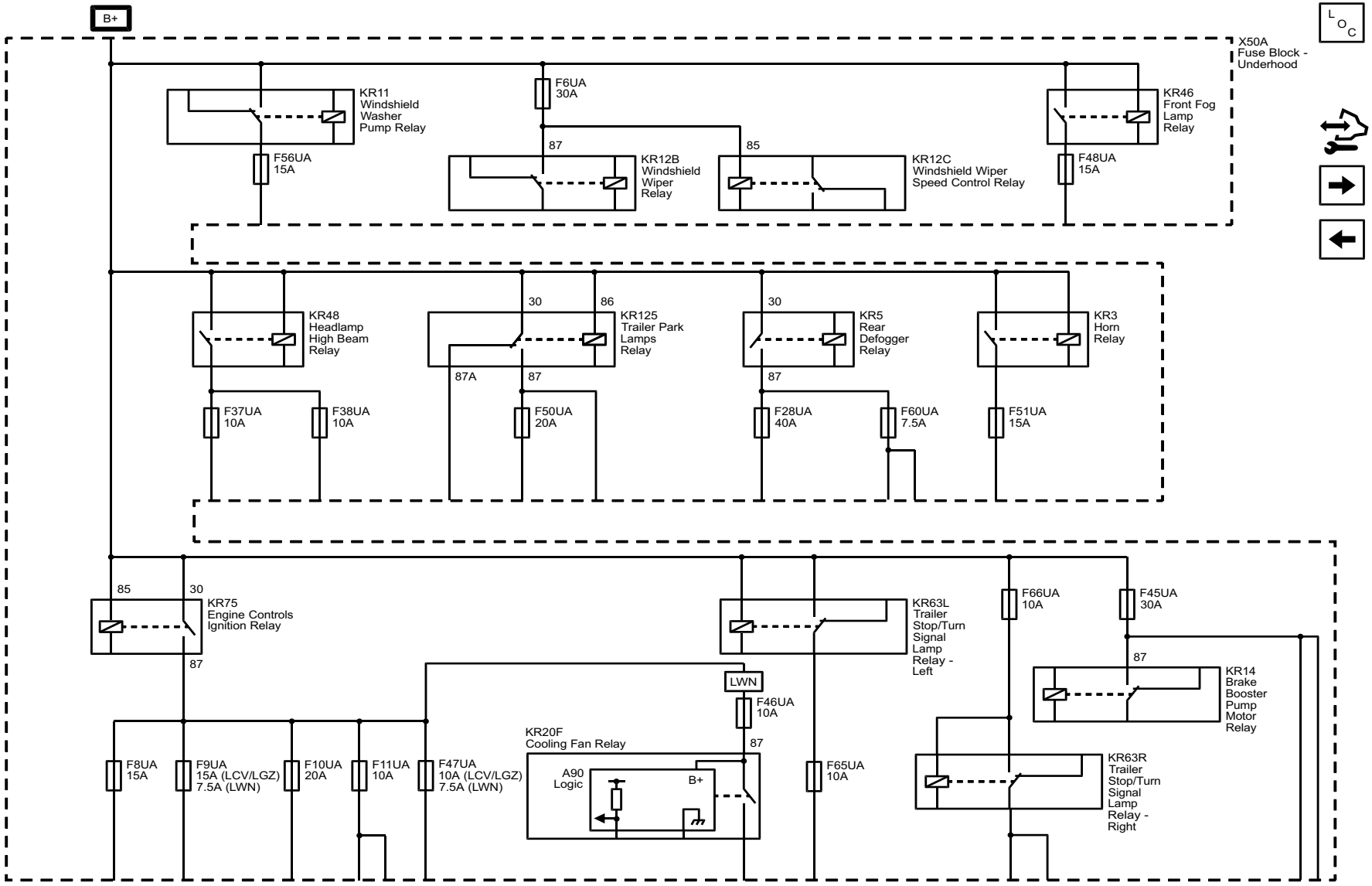
4699114

Power Distribution Schematics (B+ Bus X50A Fuse Block - Underhood (1 of 2))



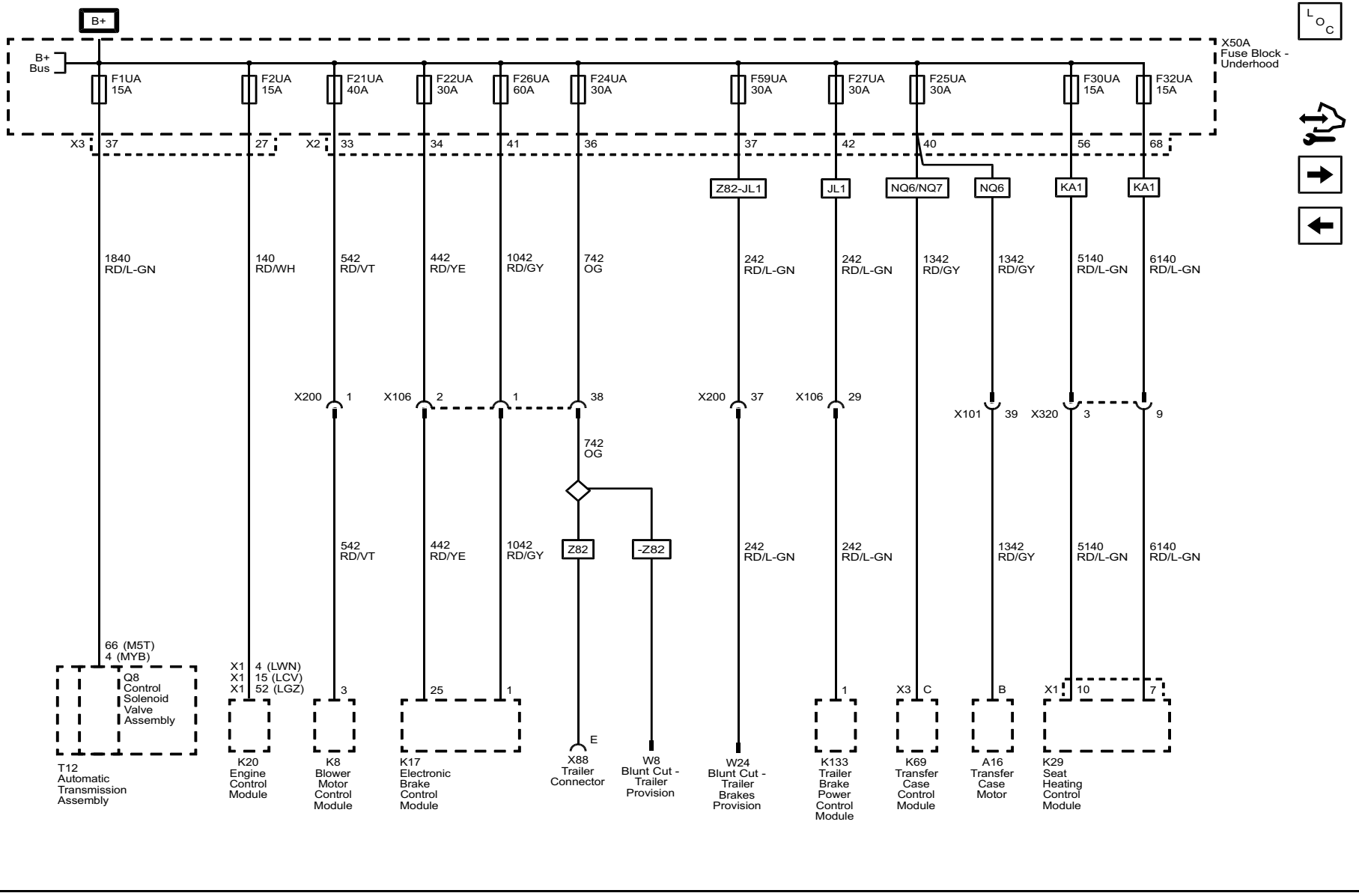
4699118

Power Distribution Schematics (B+ Bus X50A Fuse Block - Underhood (2 of 2))



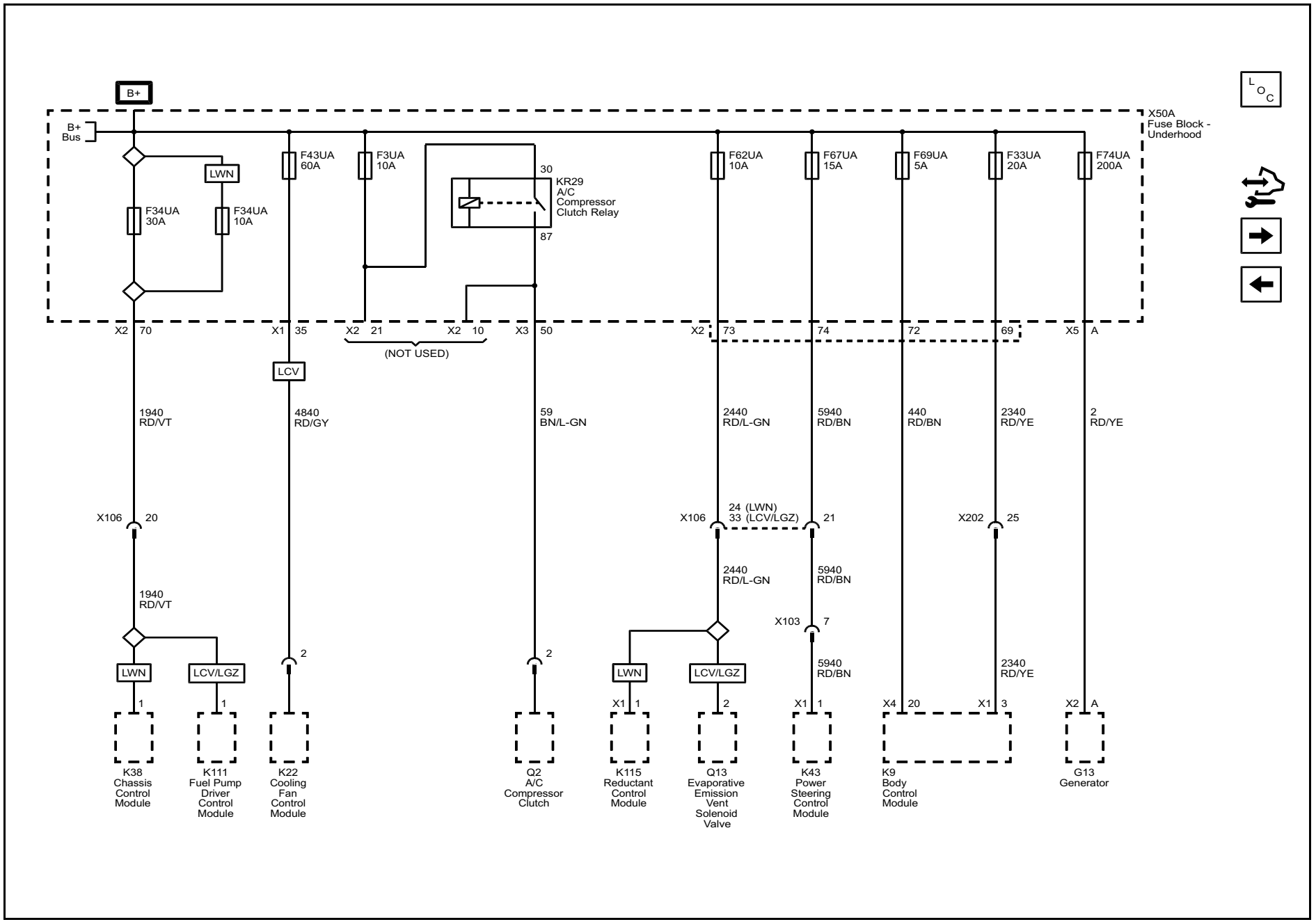
4699120

Power Distribution Schematics (F1UA, F2UA, F21UA, F22UA, F24UA, F25UA, F26UA, F27UA, F30UA, and F32UA Fuses)



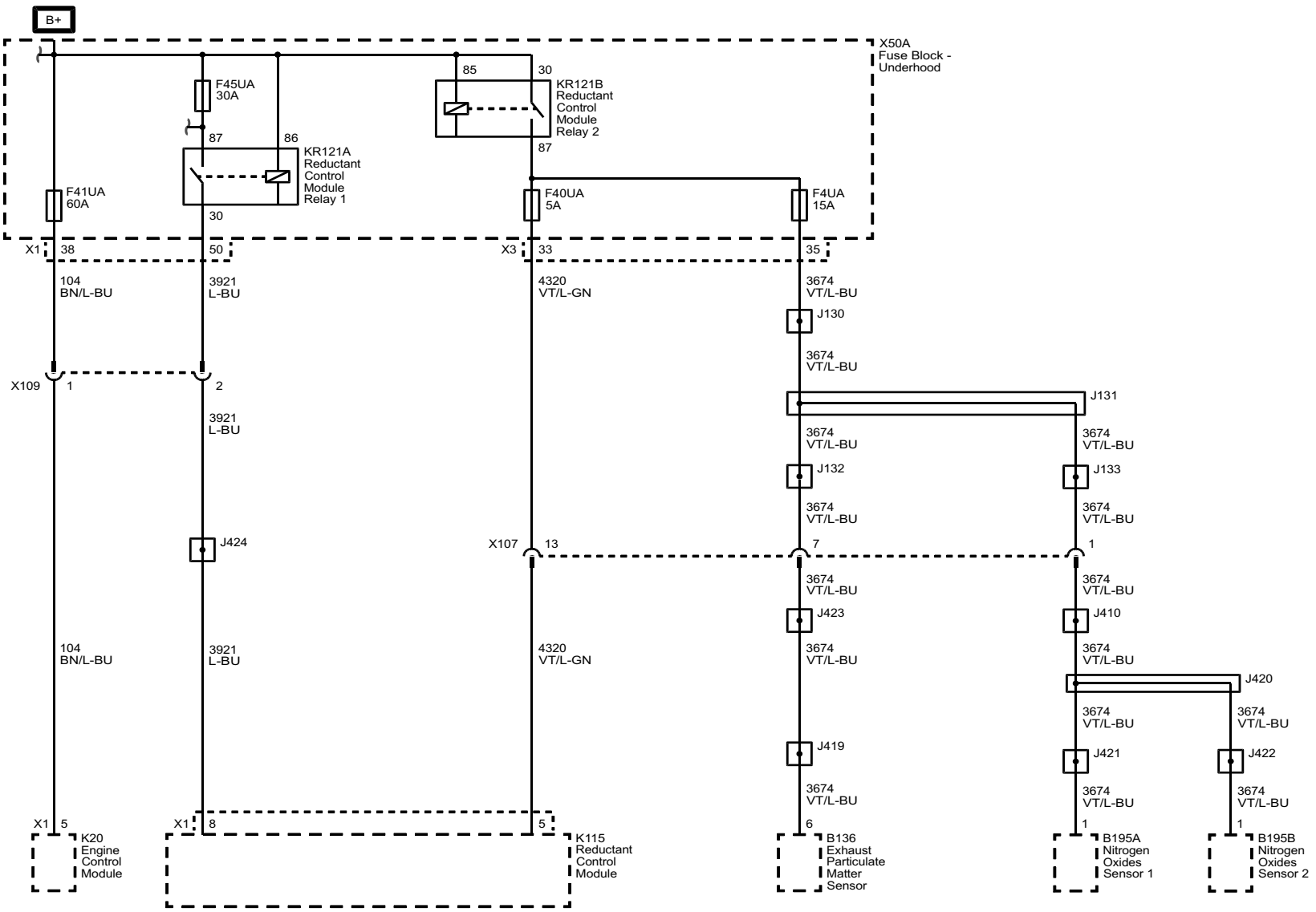
4699122

Power Distribution Schematics (F3UA, F33UA, F34UA, F43UA, F62UA, F67UA, F69UA, and F74UA Fuses)



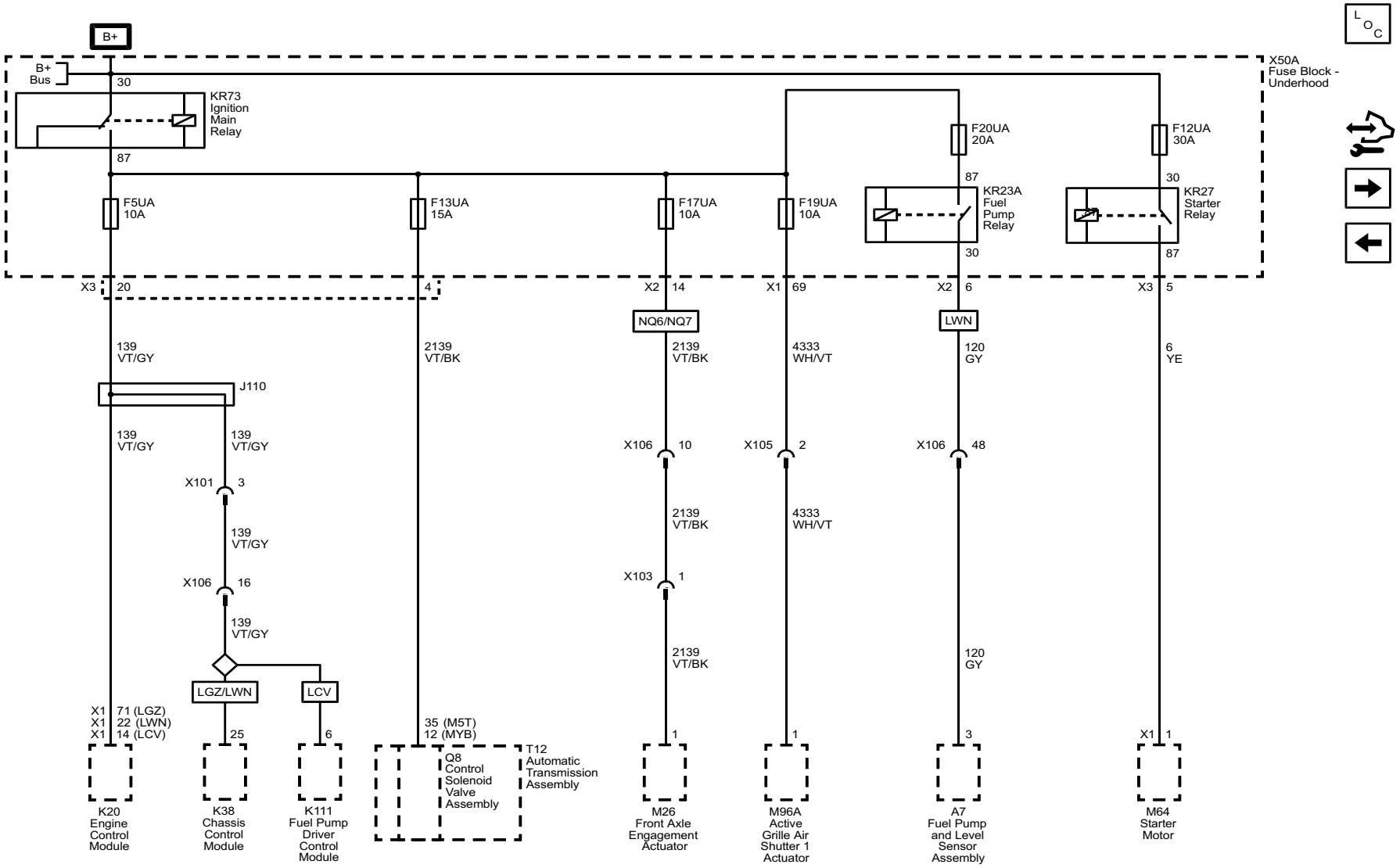
4699126

Power Distribution Schematics (F4UA, F40UA, F41UA, and F45UA Fuses (LWN))



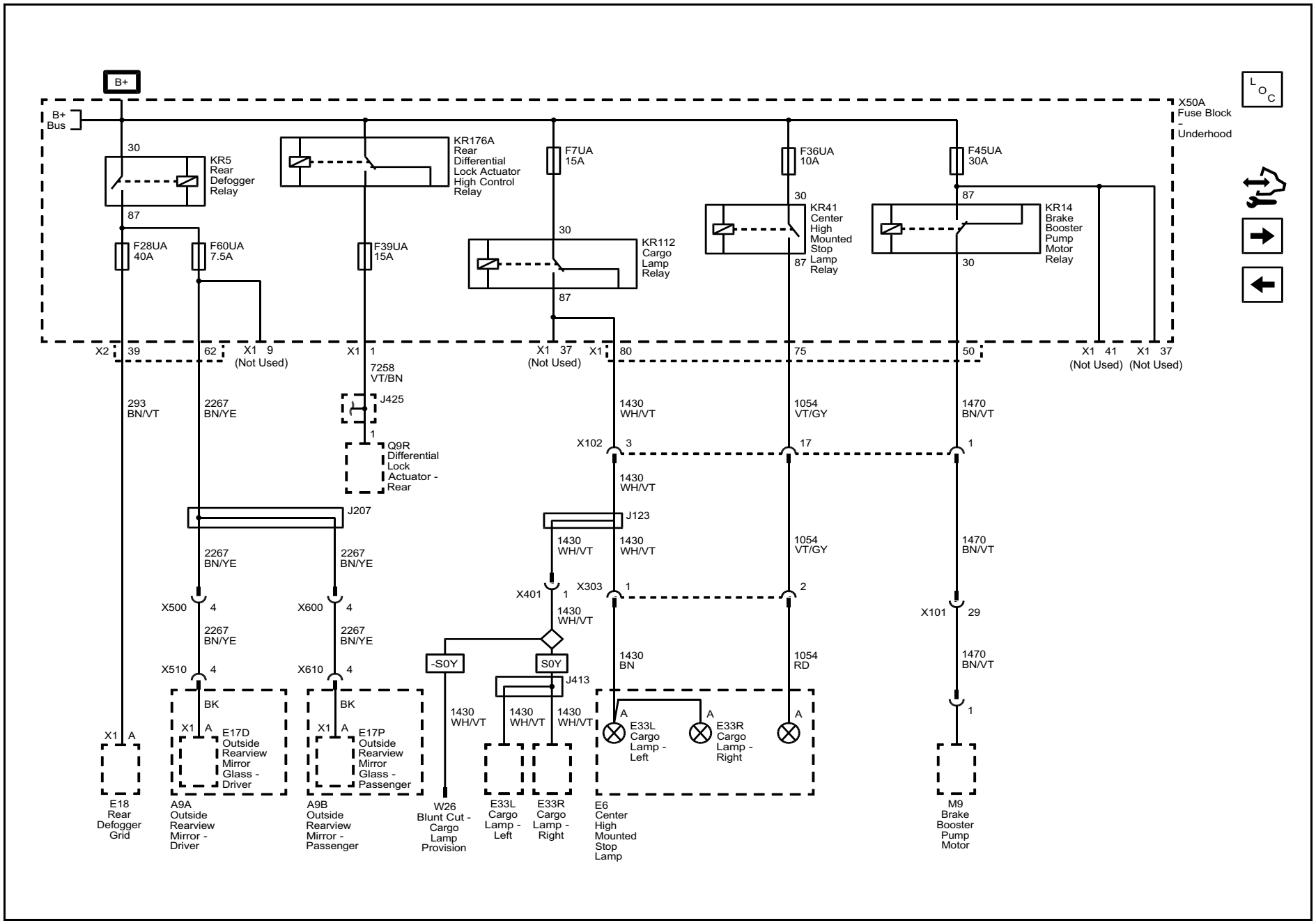
4699131

Power Distribution Schematics (F5UA, F12UA, F13UA, F17UA, F19UA, and F20UA Fuses)



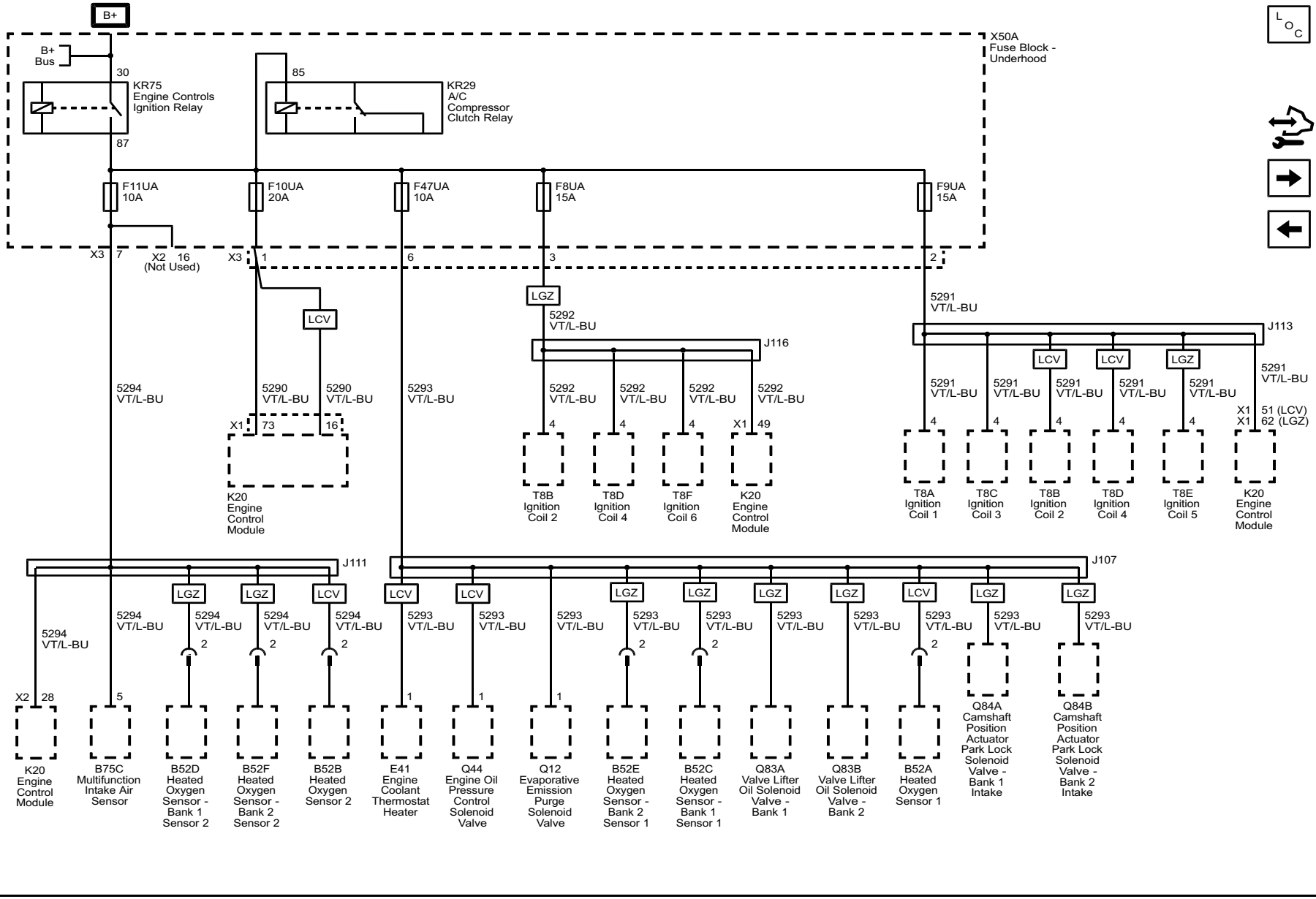
4699136

Power Distribution Schematics (F7UA, F28UA, F36UA, F39UA, F45UA, and F60UA Fuses)



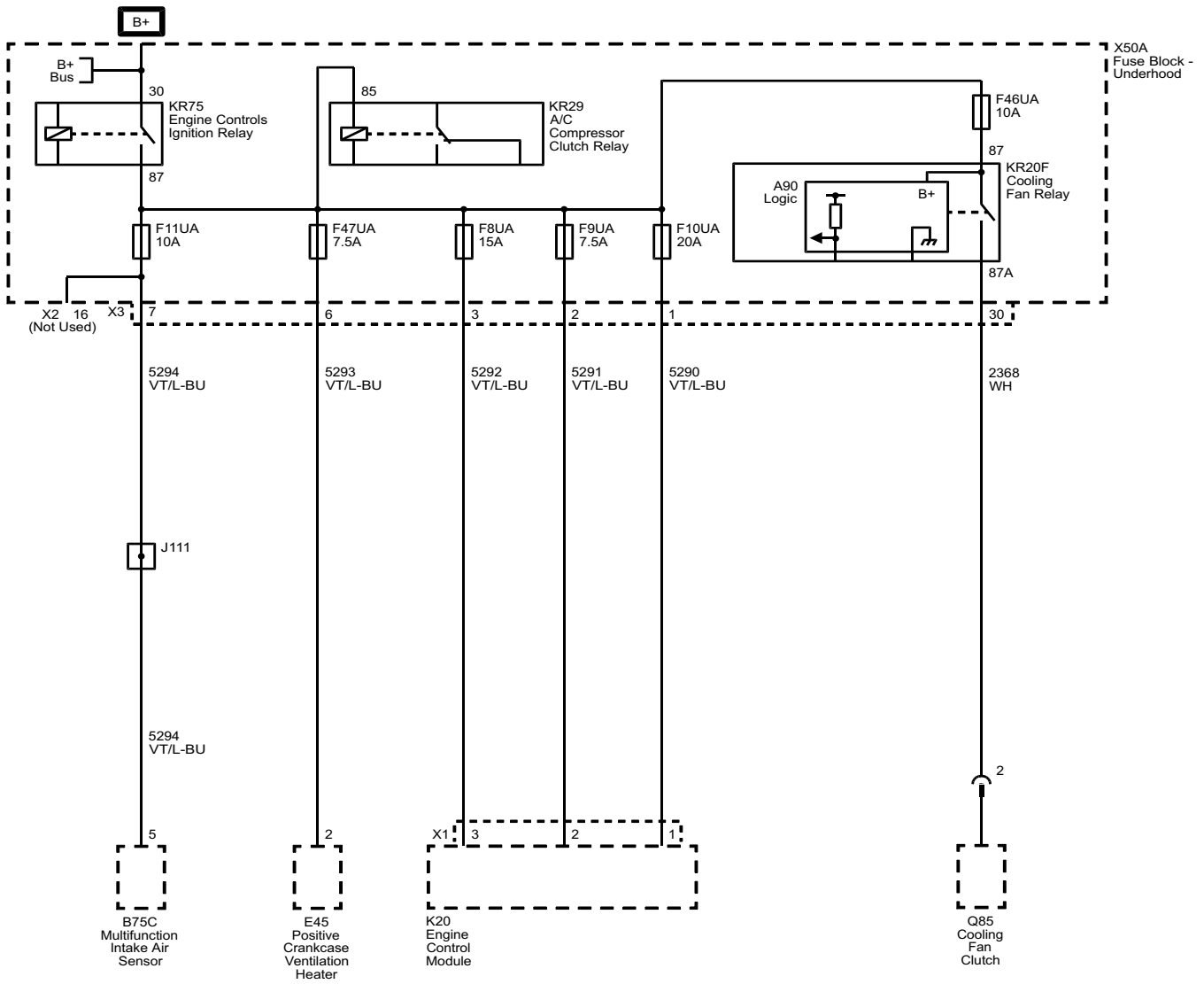
4699137

Power Distribution Schematics (F8UA, F9UA, F10UA, F11UA, and F47UA Fuses (LCV/LFX/Gasoline))



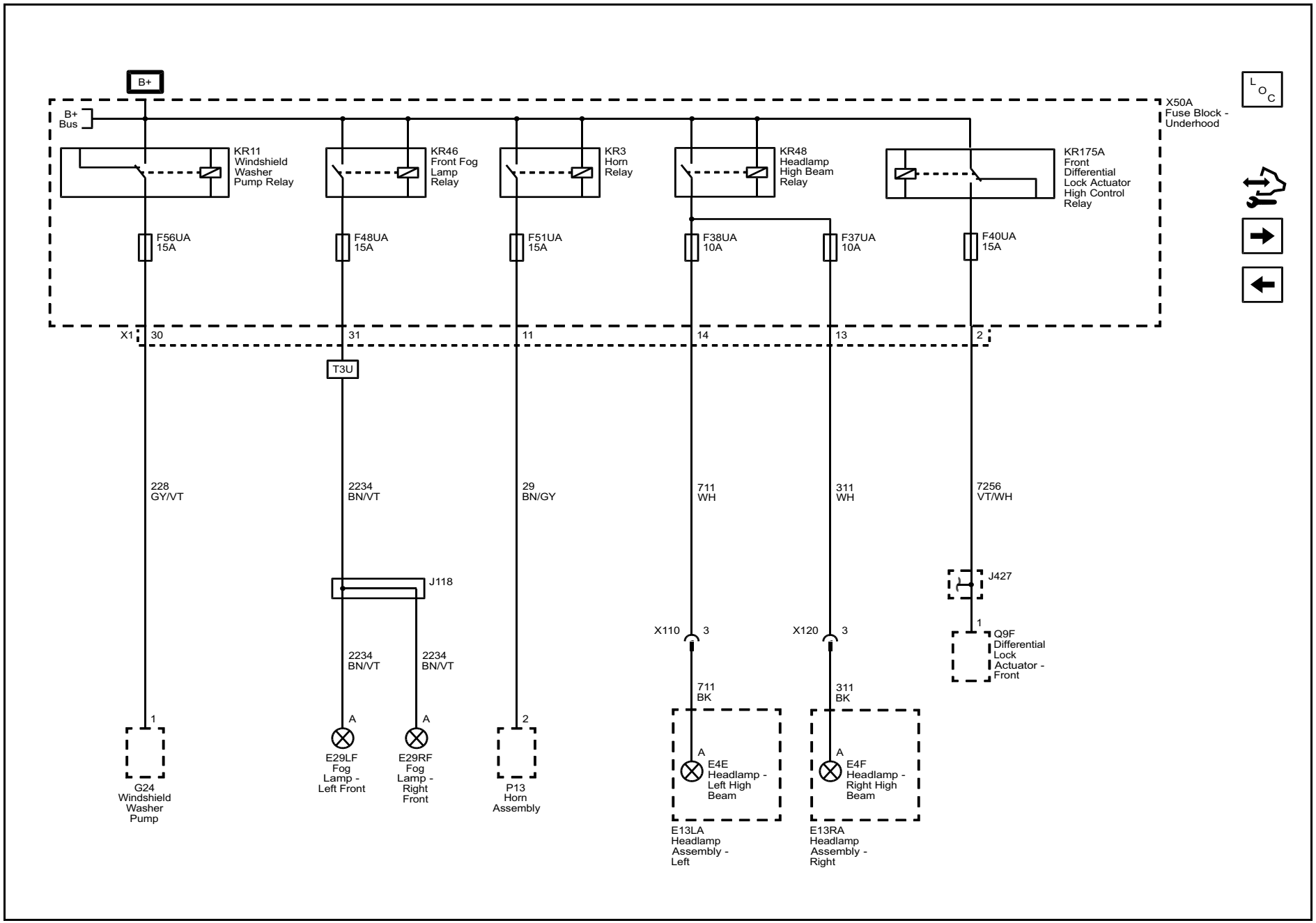
4699139

Power Distribution Schematics (F8UA, F9UA, F10UA, F11UA, F46UA, and F47UA Fuses (LWN/Diesel))



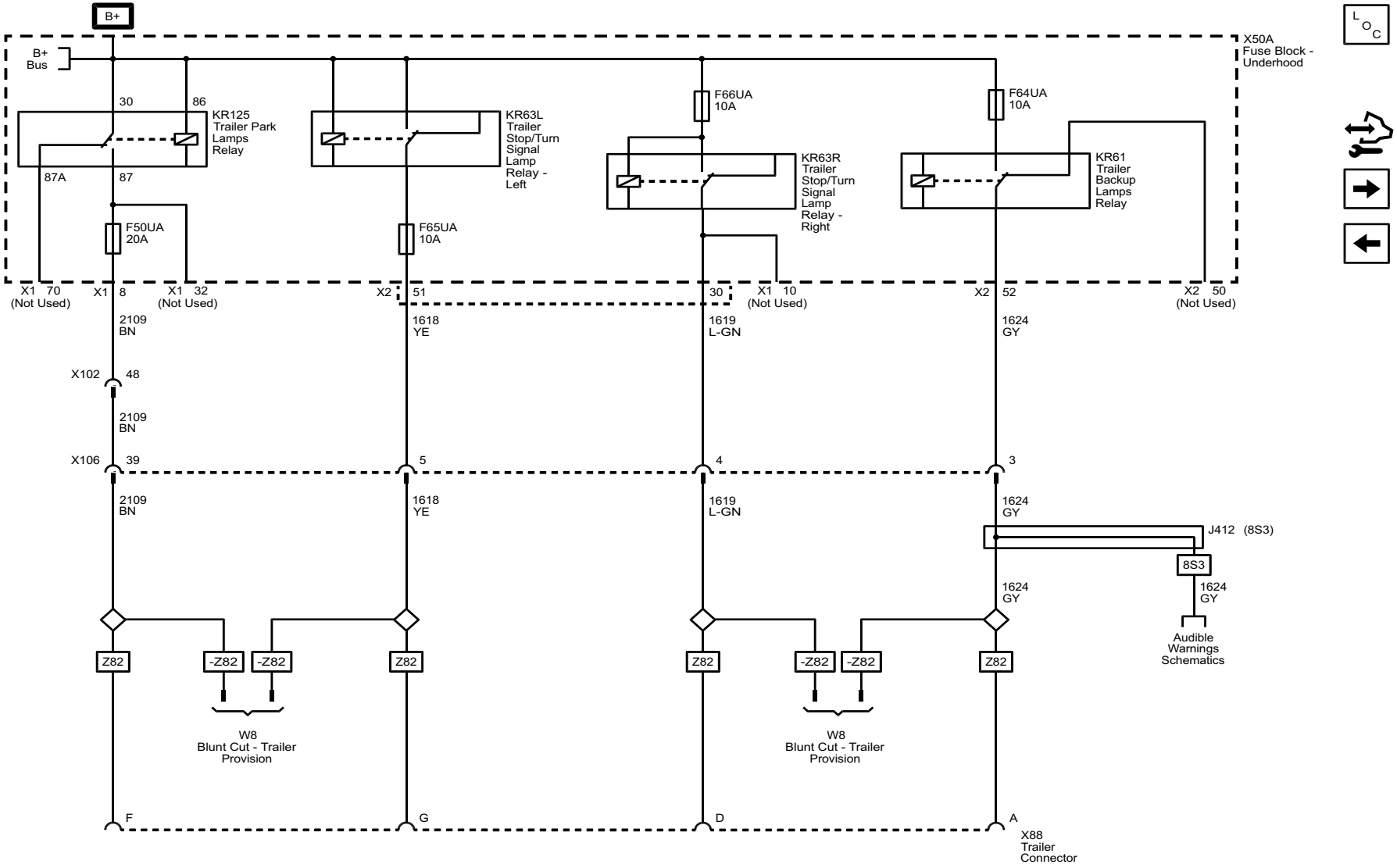
4699143

Power Distribution Schematics (F37UA, F38UA, F40UA, F48UA, F51UA, and F56UA Fuses)



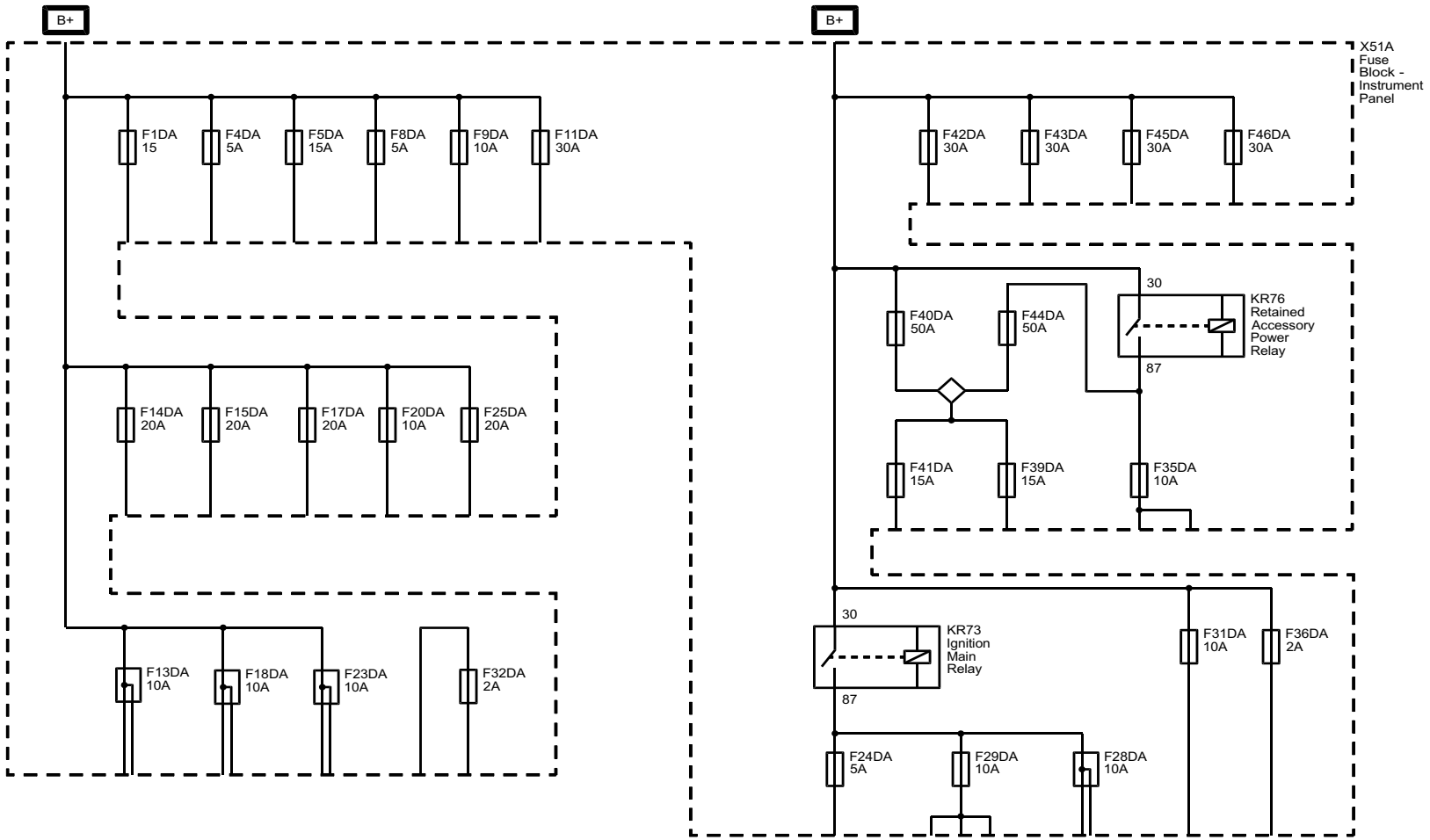
4699146

Power Distribution Schematics (F50UA, F64UA, F65UA, and F66UA Fuses)



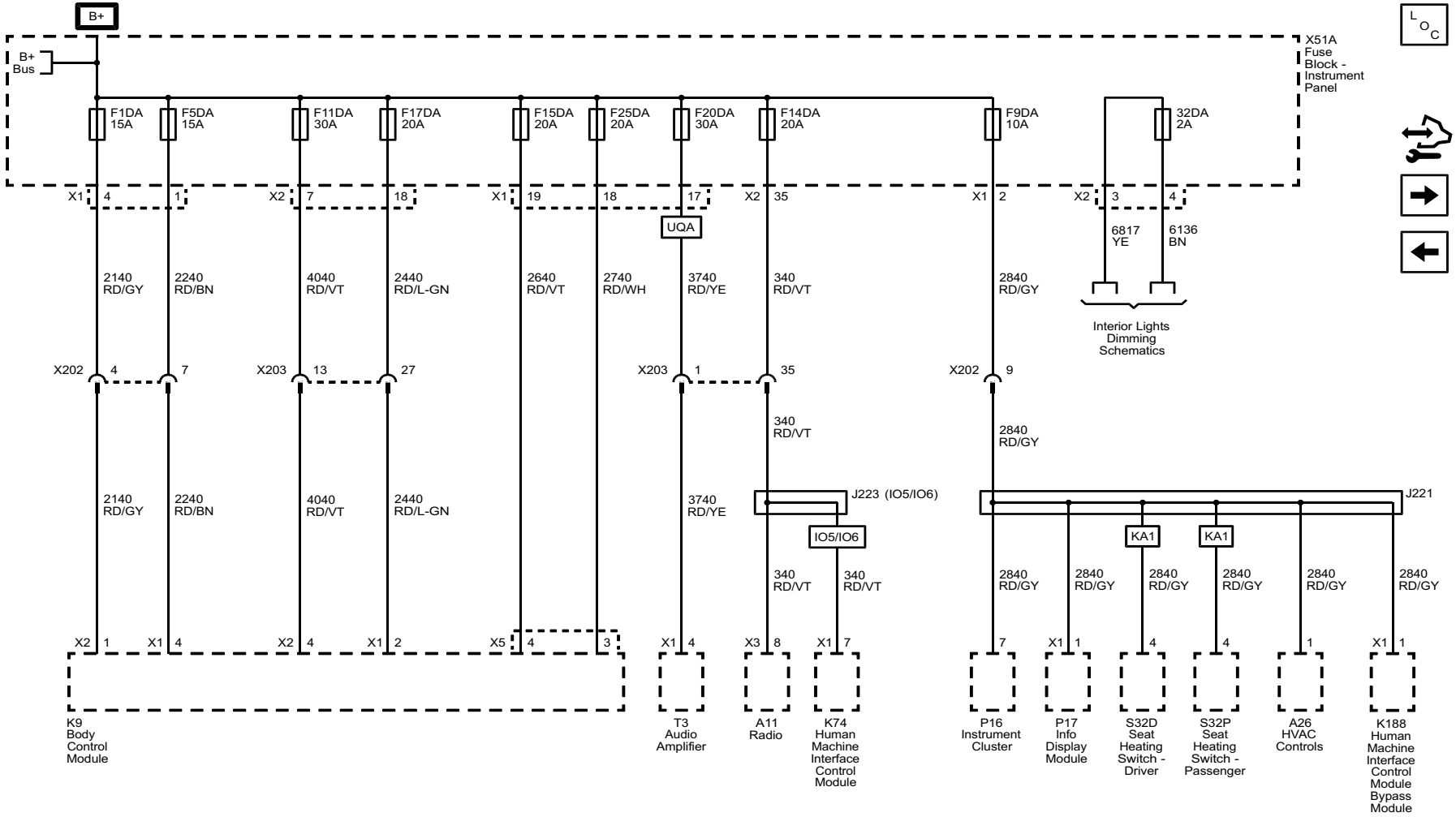
4699151

Power Distribution Schematics (X51A Fuse Block - Instrument Panel Bussing)



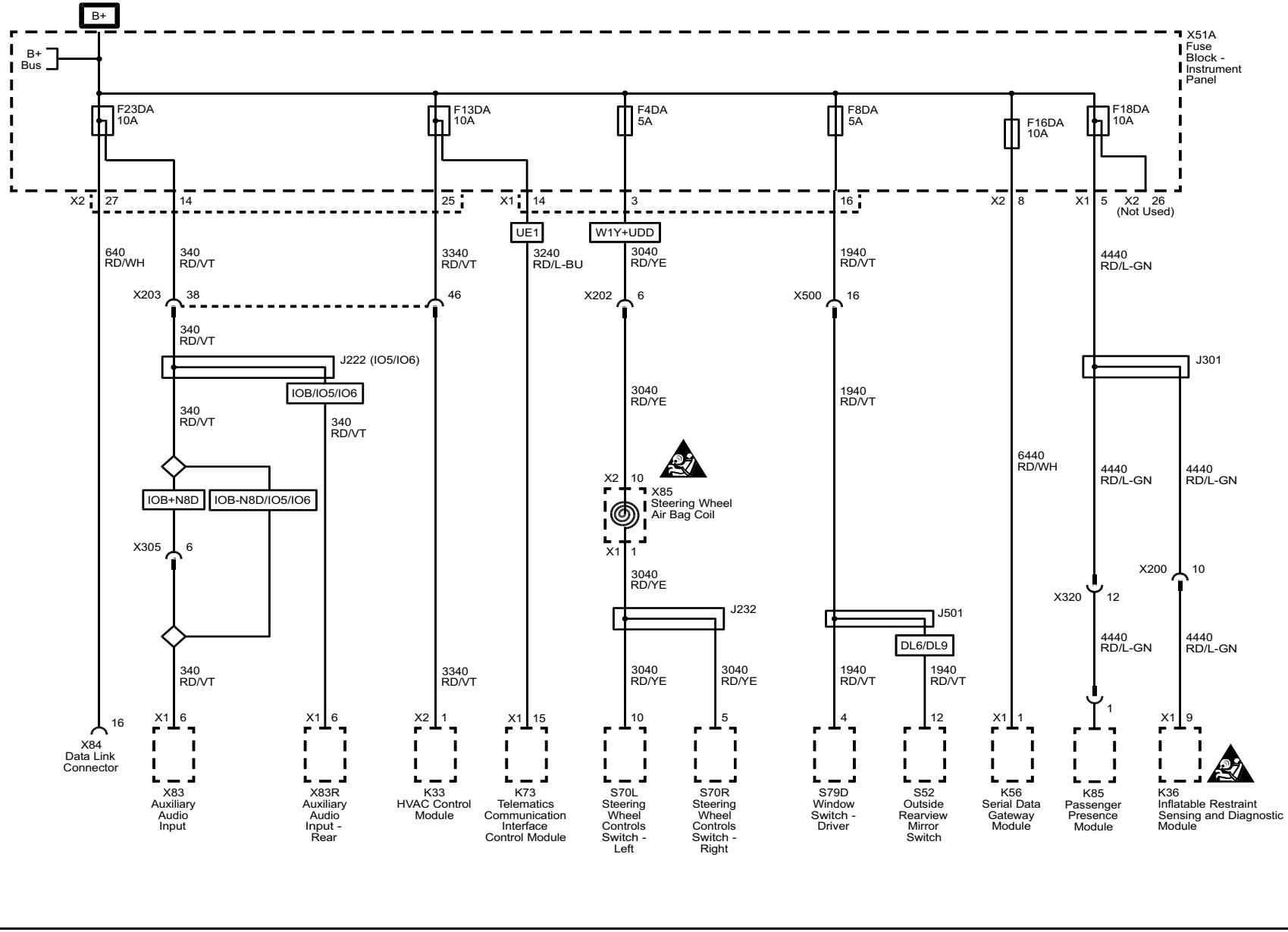
4699156

Power Distribution Schematics (F1DA, F5DA, F9DA, F11DA, F14DA, F15DA, F17DA, F20DA, F25DA, and F32DA Fuses)



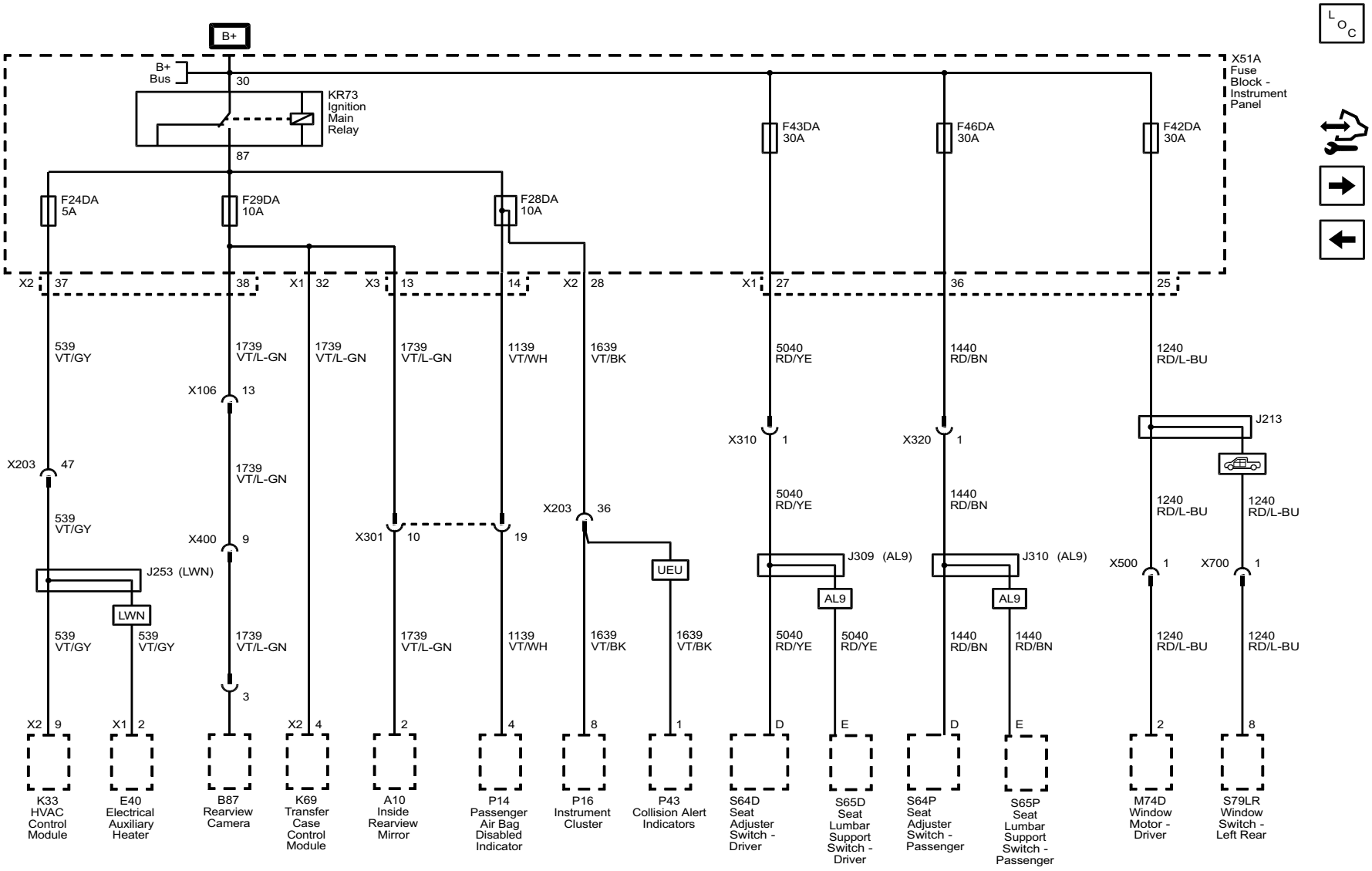
4699160

Power Distribution Schematics (F4DA, F8DA, F13DA, F16DA, F18DA, F23DA, and F32DA Fuses)



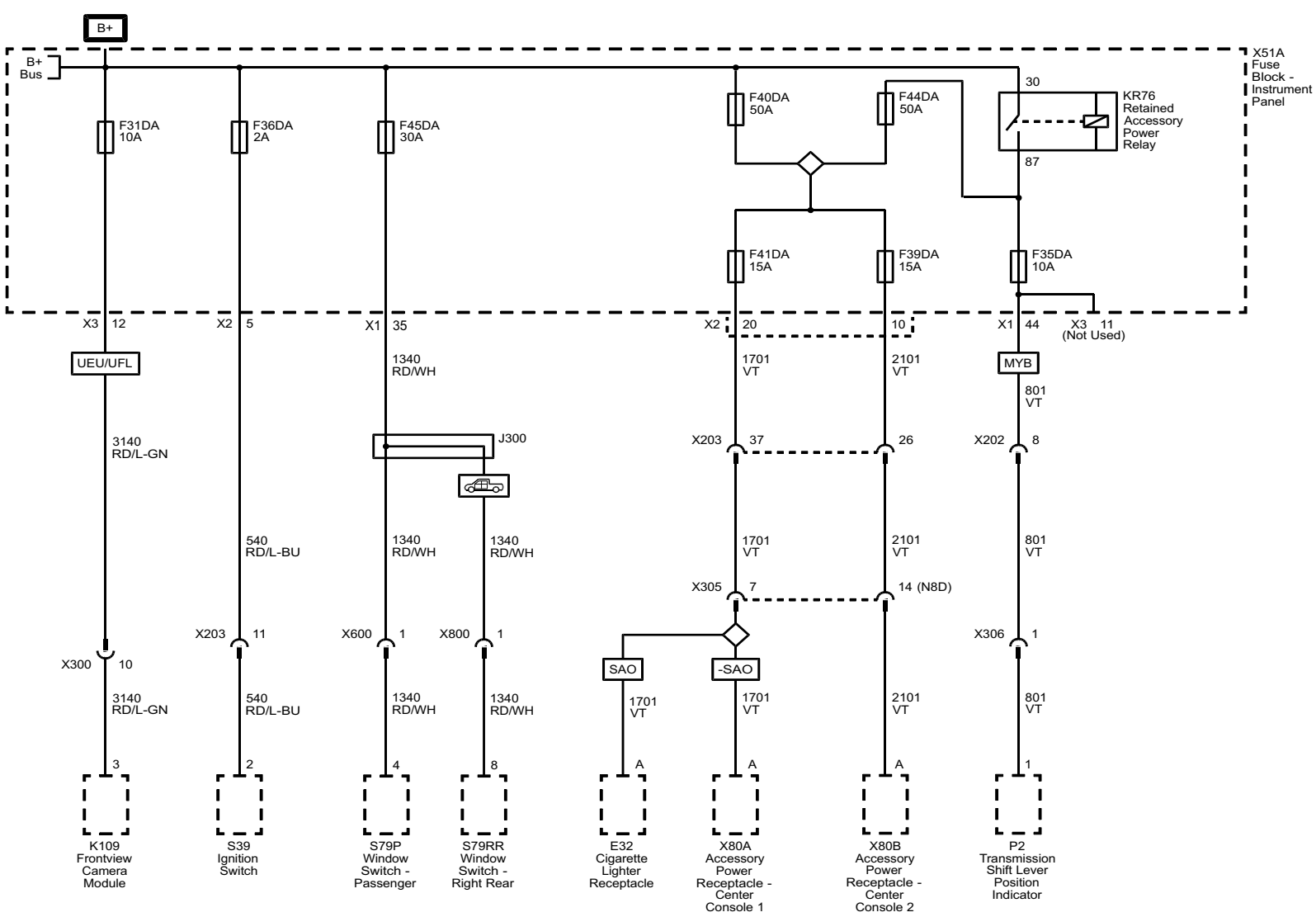
4699162

Power Distribution Schematics (F24DA, F28DA, F29DA, F42DA, F43DA, and F46DA Fuses)



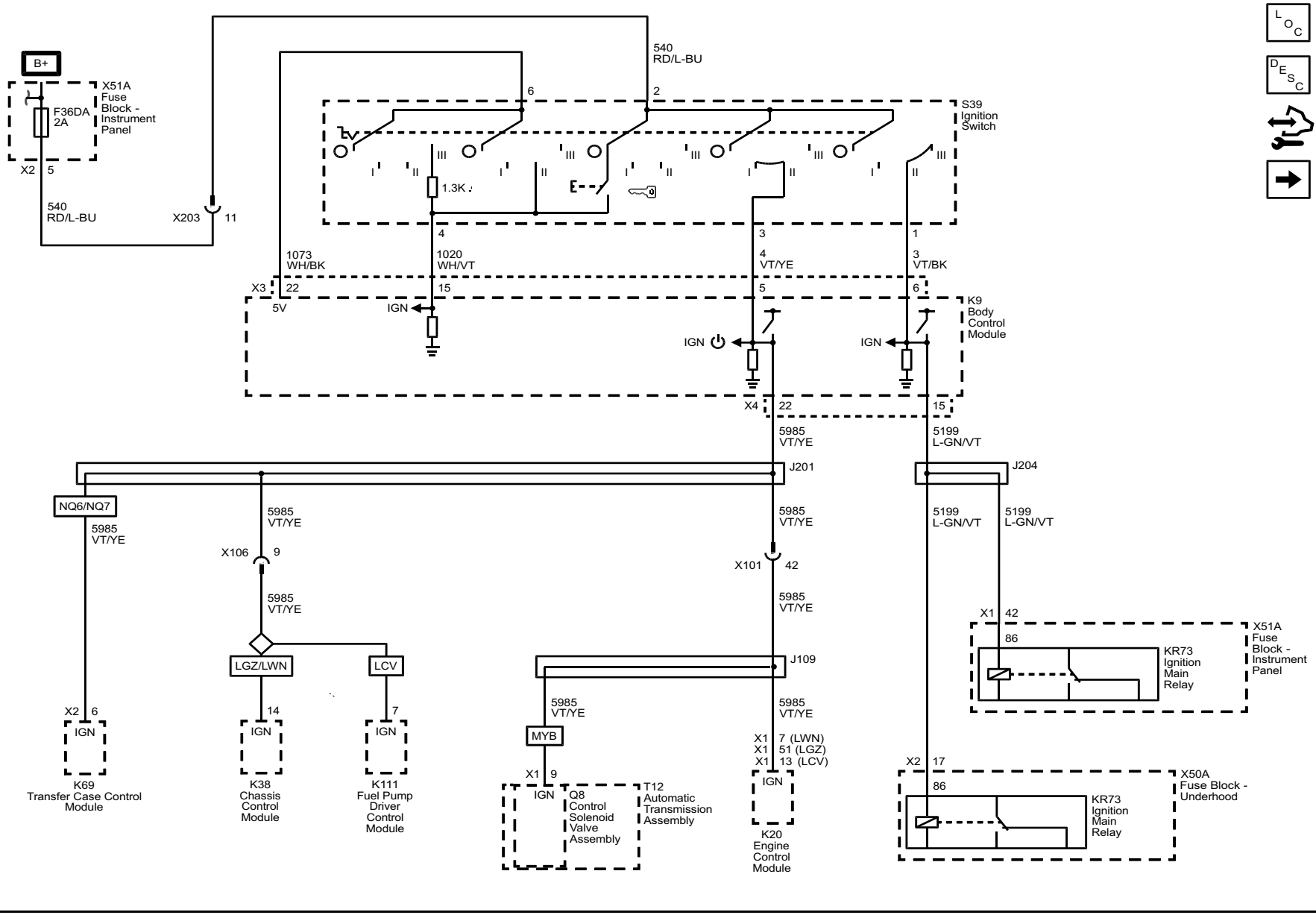
4699169

Power Distribution Schematics (F31DA, F35DA, F36DA, F39DA, F40DA, F41DA, F44DA, and F45DA Fuses)



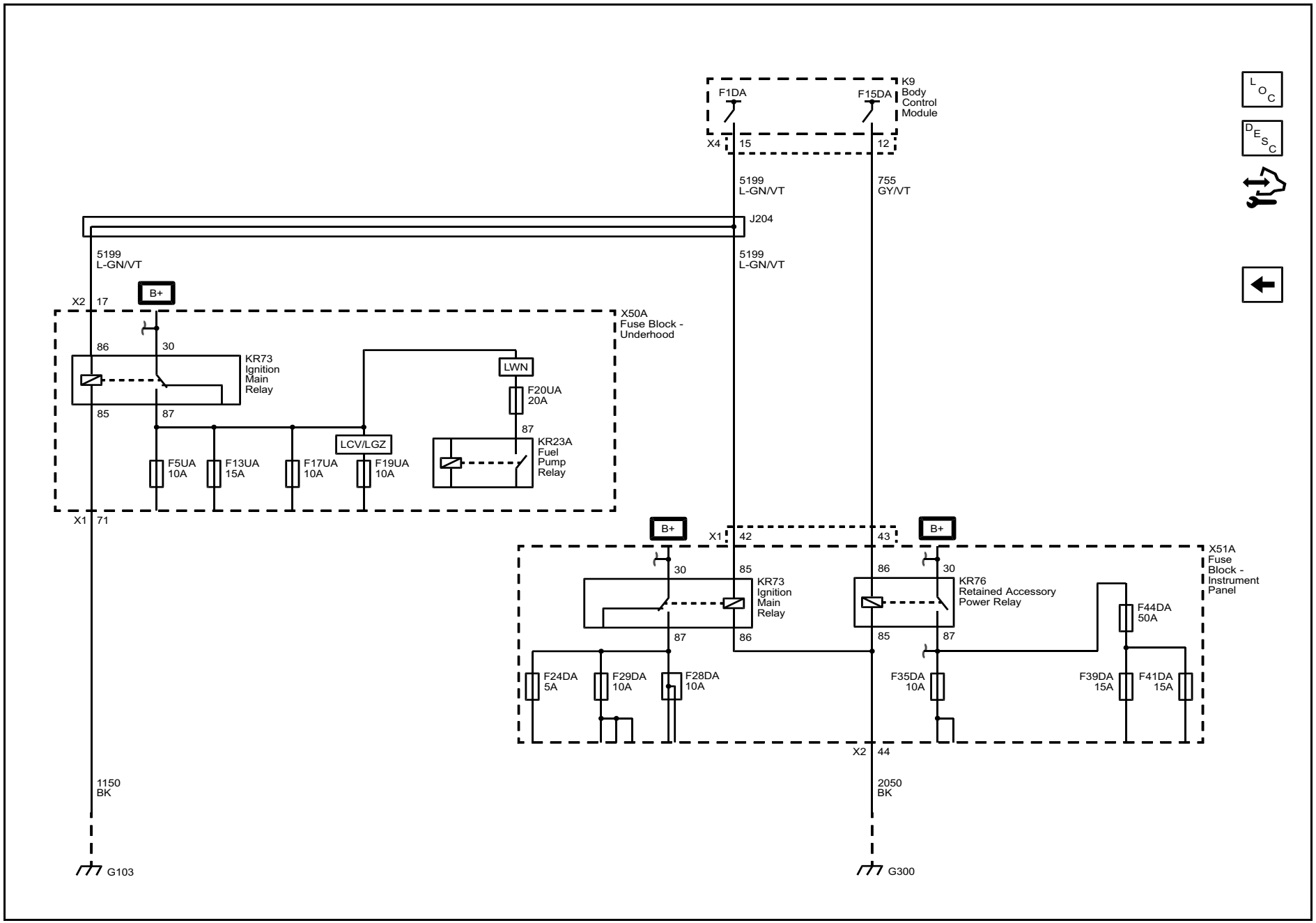
4699177

Power Moding Schematics (Ignition Switch)



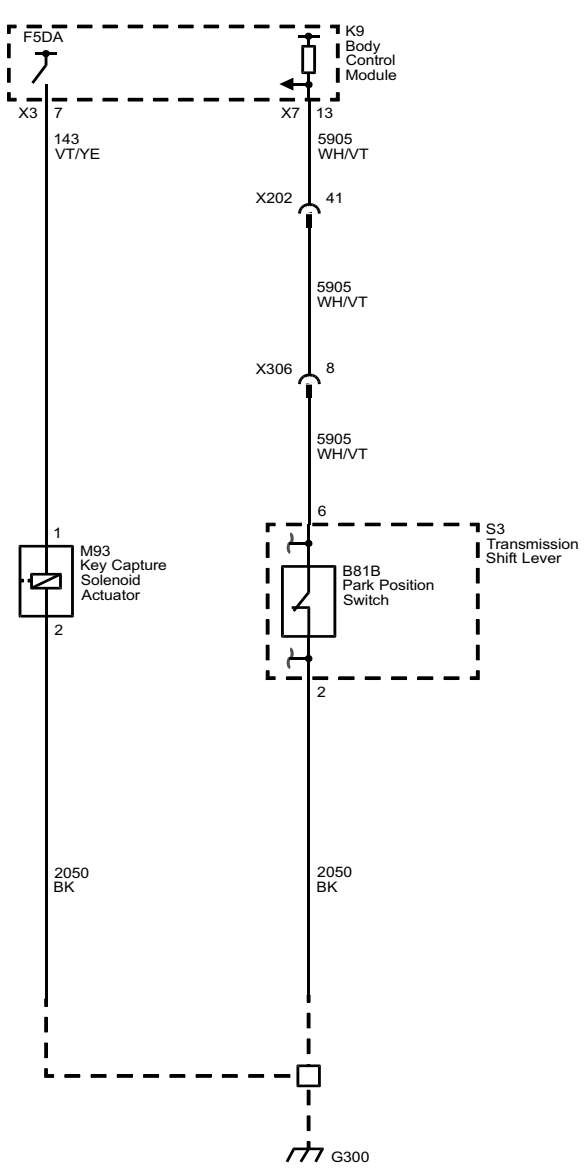
4699182

Power Moding Schematics (KR73 Ignition Main Relays and Accessory Power)



4699184

Ignition Lock Schematics (Key Capture, and Park Position Switch)

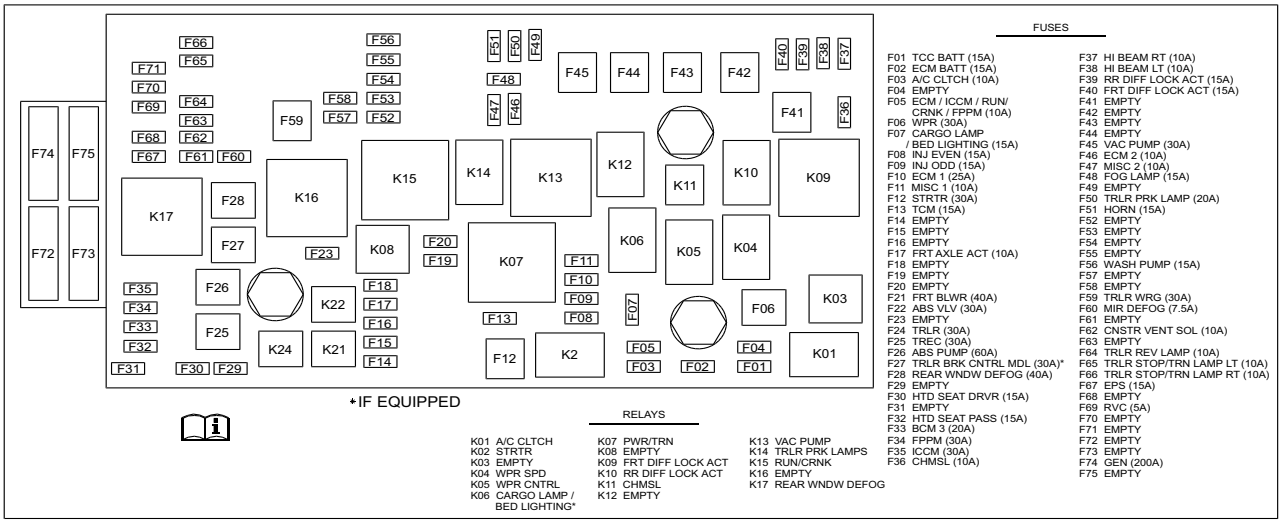


4699191

Component Locator

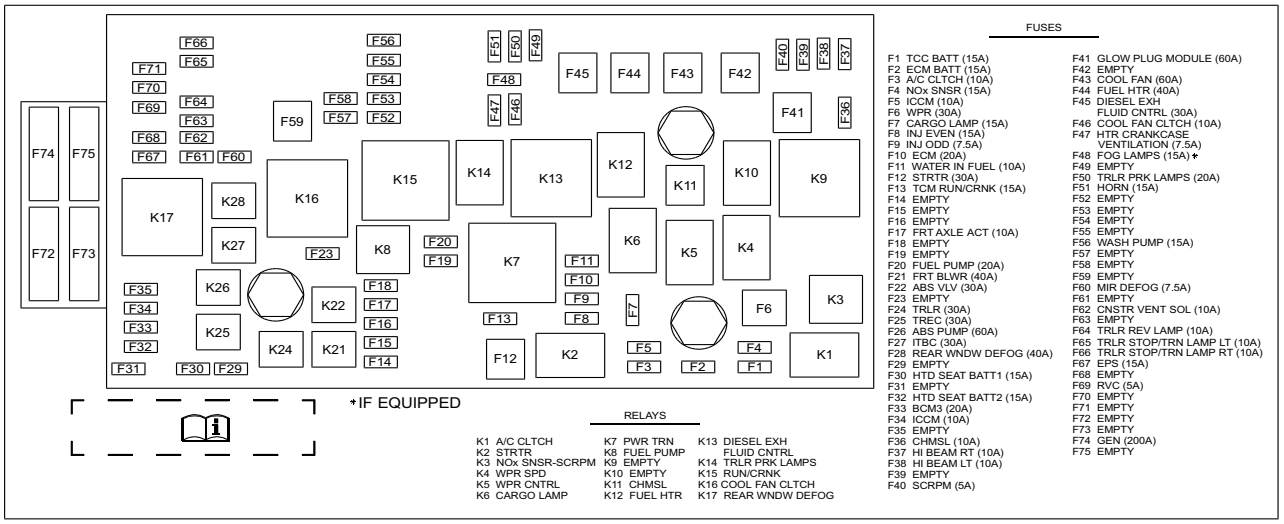
Electrical Center Identification Views

X50A Fuse Block - Underhood Label (LCV/LGZ/Gasoline)



4815958

X50A Fuse Block - Underhood Label (LWN/Diesel)



FUSES

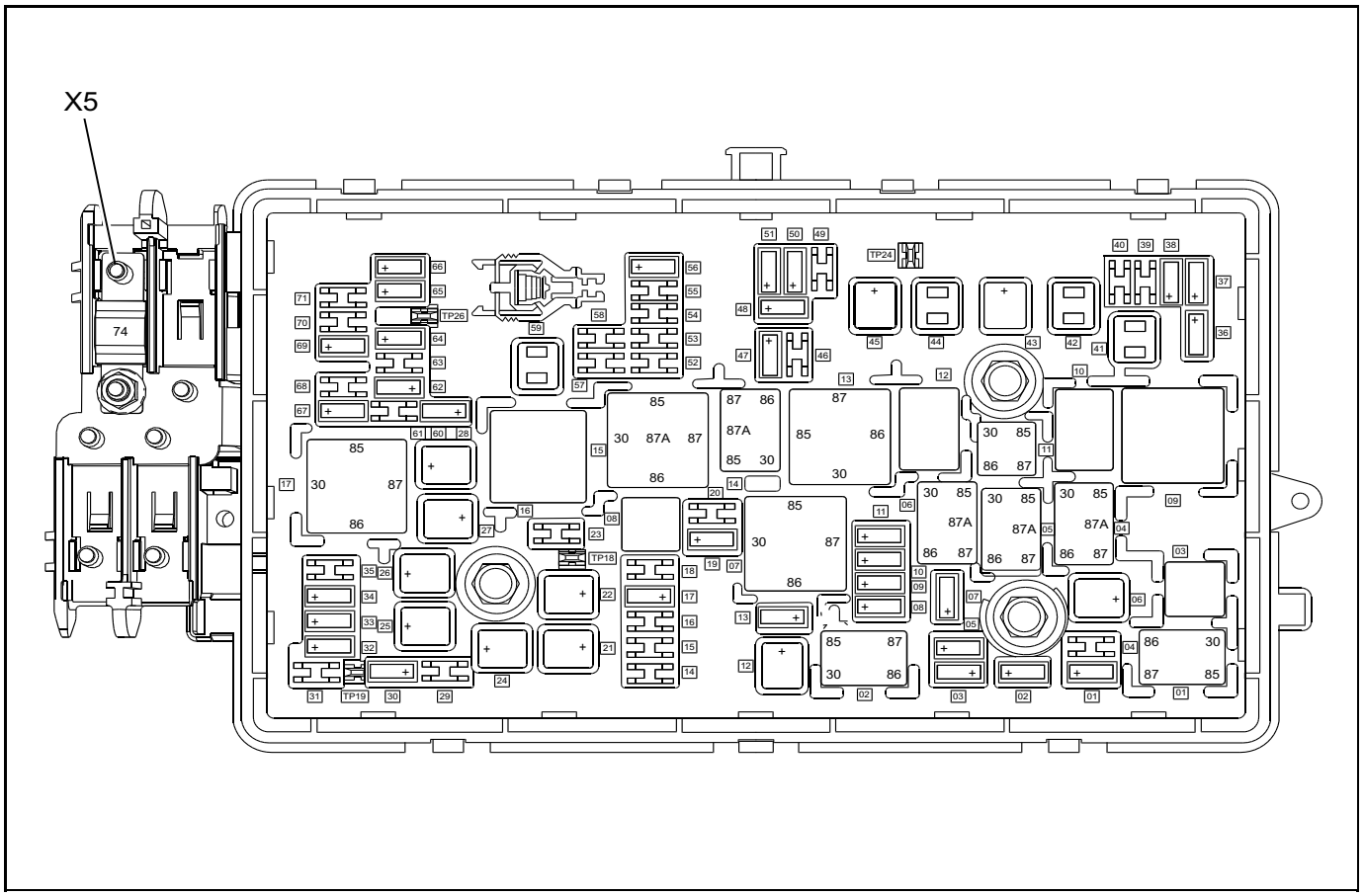
F1 TCC BATT (15A)
F2 ECM BATT (15A)
F3 A/C CLTCH (10A)
F4 NOx SNSR (15A)
F5 ICCM (10A)
F6 WPR (30A)
F7 CARGO LAMP (15A)
F8 INJ EVEN (15A)
F9 INJ ODD (7.5A)
F10 ECM (20A)
F11 WATER IN FUEL (10A)
F12 STRTR (30A)
F13 TCM RUN/CRNK (15A)
F14 EMPTY
F15 EMPTY
F16 EMPTY
F17 FRT AXLE ACT (10A)
F18 EMPTY
F19 EMPTY
F20 FUEL PUMP (20A)
F21 FRT BLWR (40A)
F22 ABS VLV (30A)
F23 EMPTY
F24 TRLR (30A)
F25 TREC (30A)
F26 ABS PUMP (60A)
F27 ITBC (30A)
F28 REAR WNDW DEFOG (40A)
F29 EMPTY
F30 HTD SEAT BATT1 (15A)
F31 EMPTY
F32 HTD SEAT BATT2 (15A)
F33 BCM3 (20A)
F34 ICCM (10A)
F35 EMPTY
F36 CHMSL (10A)
F37 HI BEAM RT (10A)
F38 HI BEAM LT (10A)
F39 EMPTY
F40 SCRPM (5A)
F41 GLOW PLUG MODULE (60A)
F42 EMPTY
F43 COOL FAN (60A)
F44 FUEL HTR (40A)
F45 DIESEL EXH FLUID CNTRL (30A)
F46 COOL FAN CLTCH (10A)
F47 HTR CRANKCASE VENTILATION (7.5A)
F48 FOG LAMPS (15A) *
F49 EMPTY
F50 TRLR PRK LAMPS (20A)
F51 HORN (15A)
F52 EMPTY
F53 EMPTY
F54 EMPTY
F55 EMPTY
F56 WASH PUMP (15A)
F57 EMPTY
F58 EMPTY
F59 EMPTY
F60 MIR DEFOG (7.5A)
F61 EMPTY
F62 CNSTR VENT SOL (10A)
F63 EMPTY
F64 TRLR REV LAMP (10A)
F65 TRLR STOP/TRN LAMP LT (10A)
F66 TRLR STOP/TRN LAMP RT (10A)
F67 EPS (15A)
F68 EMPTY
F69 RVC (5A)
F70 EMPTY
F71 EMPTY
F72 EMPTY
F73 EMPTY
F74 GEN (200A)
F75 EMPTY

RELAYS

K1 A/C CLTCH
K2 STRTR
K3 NOx SNSR-SCRPM
K4 WPR SPD
K5 WPR CNTRL
K6 CARGO LAMP
K7 PWR TRN
K8 FUEL PUMP
K9 EMPTY
K10 EMPTY
K11 CHMSL
K12 FUEL HTR
K13 DIESEL EXH FLUID CNTRL
K14 TRLR PRK LAMPS
K15 RUN/CRNK
K16 COOL FAN CLTCH
K17 REAR WNDW DEFOG

4650162

X50A Fuse Block - Underhood Top View (LCV/LGZ/Gasoline)



4816016

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	TCM BATT	F1UA	15A	• K71 Transmission Control Module (MYB) • Q8 Control Solenoid Valve Assembly (MYB)
F2	ECM BATT	F2UA	15A	• K20 Engine Control Module
F3	A/C CLTCH	F3UA	10A	• KR29 A/C Compressor Clutch Relay • Q2 A/C Compressor Clutch
F4	EMPTY	F4UA	—	• Not Used
F5	FUEL MDL RUN/ CRNK	F5UA	10A	• K20 Engine Control Module • K71 Transmission Control Module (MYB) • Q8 Control Solenoid Valve Assembly (MYB)
F6	WPR	F6UA	30A	• KR12B Windshield Wiper Relay • KR12C Windshield Wiper Speed Control Relay
F7	CARGO LAMP	F7UA	15A	• KR112 Cargo Lamp Relay
F8	INJ EVEN	F8UA	15A	• K20 Engine Control Module (LFX) • T8B Ignition Coil 2 (LFX) • T8D Ignition Coil 4 (LFX) • T8F Ignition Coil 6 (LFX)

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F9	INJ ODD	F9UA	15A	• K20 Engine Control Module • T8A Ignition Coil 1 (LCV) • T8A Ignition Coil 1 (LFX) • T8B Ignition Coil 2 (LCV) • T8C Ignition Coil 3 (LCV) • T8C Ignition Coil 3 (LFX) • T8D Ignition Coil 4 (LCV) • T8E Ignition Coil 5 (LFX)
F10	ECM	F10UA	20A	• K20 Engine Control Module
F11	MISC 1	F11UA	10A	• B52B Heated Oxygen Sensor 2 (LCV) • B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (LFX) • B52F Heated Oxygen Sensor - Bank 2Sensor 2 (LFX) • B75C Multifunction Intake Air Sensor
F12	STRTR	F12UA	30A	• KR27 Starter Relay
F13	TCM	F13UA	15A	• K71 Transmission Control Module (MYB) • Q8 Control Solenoid Valve Assembly (MYB)
F14	EMPTY	F14UA	—	• Not Used
F15	EMPTY	F15UA	—	• Not Used
F16	EMPTY	F16UA	—	• Not Used
F17	FRT AXLE ACT	F17UA	10A	• M26 Front Axle Engagement Actuator (NQ6/NQ7)
F18	EMPTY	F18UA	—	• Not Used
F19	AERO SHTR	F19UA	10A	• M96 Active Grille Air Shutter Actuator
F20	EMPTY	F20UA	—	• Not Used
F21	FRT BLWR	F21UA	40A	• K8 Blower Motor Control Module
F22	ABS VLV	F22UA	30A	• K17 Electronic Brake Control Module
F23	EMPTY	F23UA	—	• Not Used
F24	TRLR	F24UA	30A	• W8 Blunt Cut - Trailer Provision • X88 Trailer Connector (Z82)
F25	TREC	F25UA	30A	• A16 Transfer Case Motor (NQ6/NQ7) • K69 Transfer Case Control Module (NQ6/NQ7)
F26	ABS PUMP	F26UA	60A	• K17 Electronic Brake Control Module
F27	TRLR BRK CNTRL MDL	F27UA	30A	• W24 Blunt Cut - Trailer Brakes Provision (Z82)
F28	REAR WNDW DEFOG	F28UA	40A	• F63UA • E18 Rear Defogger Grid (C49)
F29	EMPTY	F29UA	—	• Not Used
F30	HTD SEAT BATT1	F30UA	15A	• K29 Seat Heating Control Module (KA1)
F31	EMPTY	F31UA	—	• Not Used
F32	HTD SEAT BATT2	F32UA	15A	• K29 Seat Heating Control Module (KA1)
F33	BCM 3	F33UA	20A	• K9 Body Control Module
F34	FSCM	F34UA	30A	• K38 Chassis Control Module • K111 Fuel Pump Driver Control Module (LCV)
F35	FSCM	F35UA	30A	• K38 Chassis Control Module (LGZ)
F36	CHMSL	F36UA	10A	• KR41 Center High Mounted Stop Lamp Relay
F37	HI BEAM RT	F37UA	10A	• E4F Headlamp – Right High Beam

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F38	HI BEAM LT	F38UA	10A	• E4E Headlamp – Left High Beam
F39	RR DIFF LOCK ACT	F39UA	15A	• Rear Differential Lock Control Actuator
F40	FRT DIFF LOCK ACT	F40UA	15A	• Front Differential Lock Control Actuator
F41	EMPTY	F41UA	—	• Not Used
F42	EMPTY	F42UA	—	• Not Used
F43	COOL FAN	F43UA	60A	• K22 Cooling Fan Control Module
F44	EMPTY	F44UA	—	• Not Used
F45	VAC PUMP	F45UA	30A	• KR14 Brake Booster Pump Motor Relay (LFX)
F46	EMPTY	F46UA	—	• Not Used
F47	MISC 2	F47UA	10A	• B52A Heated Oxygen Sensor 1 (LCV) • B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (LFX) • B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (LFX) • E41 Engine Coolant Thermostat Heater (LCV) • K20 Engine Control Module (LCV) • Q12 Evaporative Emission Purge Solenoid Valve • Q44 Engine Oil Pressure Control Solenoid Valve (LCV)
F48	FOG LAMP	F48UA	15A	• E29LF Fog Lamp – Left Front (T3U) • E29RF Fog Lamp – Right Front (T3U)
F49	EMPTY	F49UA	—	• Not Used
F50	TRLR PRK LAMP	F50UA	20A	• W8 Blunt Cut - Trailer Provision • X88 Trailer Connector (Z82)
F51	HORN	F51UA	15A	• P13 Horn Assembly
F52	EMPTY	F52UA	—	• Not Used
F53	EMPTY	F53UA	—	• Not Used
F54	EMPTY	F54UA	—	• Not Used
F55	EMPTY	F55UA	—	• Not Used
F56	WASH PUMP	F56UA	15A	• G24 Windshield Washer Pump
F57	EMPTY	F57UA	—	• Not Used
F58	EMPTY	F58UA	—	• Not Used
F59	EMPTY	F59UA	—	• Not Used
F60	MIR DEFOG	F60UA	7.5A	• E17D Outside Rearview Mirror Glass – Driver (DL9) • E17P Outside Rearview Mirror Glass – Passenger (DL9)
F61	EMPTY	F61UA	—	• Not Used
F62	CNSTR VENT SOL	F62UA	10A	• Q13 Evaporative Emission Vent Solenoid Valve
F63	EMPTY	F63UA	—	• Not Used
F64	TRLR REV LAMP	F64UA	10A	• KR61 Trailer Backup Lamps Relay
F65	TRLR STOP/TRN LAMP LT	F65UA	10A	• W8 Blunt Cut - Trailer Provision • X88 Trailer Connector (Z82)
F66	TRLR STOP/TRN LAMP RT	F66UA	10A	• KR63R Trailer Stop/Turn Signal Lamp Relay - Right
F67	EPS	F67UA	15A	• K43 Power Steering Control Module

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F68	EMPTY	F68UA	—	• Not Used
F69	RVC	F69UA	5A	• K9 Body Control Module
F70	EMPTY	F70UA	—	• Not Used
F71	EMPTY	F71UA	—	• Not Used
F72	EMPTY	F72UB	—	• Not Used
F73	EMPTY	F73UB	—	• Not Used
F74	GEN	F74UB	200A	• G13 Generator
F75	EMPTY	F75UB	—	• Not Used
Relays				
K1	A/C CLTCH	KR29 A/C Compressor Clutch Relay	—	• Q2 A/C Compressor Clutch
K2	STRTR	KR27 Starter Relay	—	• M64 Starter Motor
K3	EMPTY	—	—	• Not Used
K4	WPR SPD	KR12C Windshield Wiper Speed Control Relay	—	• M75 Windshield Wiper Motor
K5	WPR CNTRL	KR12B Windshield Wiper Relay	—	• M75 Windshield Wiper Motor
K6	CARGO LAMP	KR112 Cargo Lamp Relay	—	• E6 Center High Mounted Stop Lamp
K7	PWR TRN	KR75 Engine Controls Ignition Relay	—	• F8UA • F9UA • F10UA • F11UA • F47UA • KR29 A/C Compressor Clutch Relay
K8	EMPTY	—	—	• Not Used
K9	FRT DIFF LOCK ACT	KR175A Front Differentail Lock Actuator High Contorl Relay	—	• Q9F Differential Lock Actuator - Front • K38A Chassis Control Module - Auxiliary
K10	RR DIFF LOCK ACT	KR176A Rear Differential Lock Actuator High Control Relay	—	• Q9R Differential Lock Actuator - Rear • K38A Chassis Control Module - Auxiliary
K11	CHMSL	KR41 Center High Mounted Stop Lamp Relay	—	• E6 Center High Mounted Stop Lamp
K12	EMPTY	—	—	• Not Used
K13	VAC PUMP	KR14 Brake Booster Pump Motor Relay	—	• M9 Brake Booster Pump Motor (LFX)
K14	PRK LAMPS	KR125 Trailer Park Lamps Relay	—	• F50UA

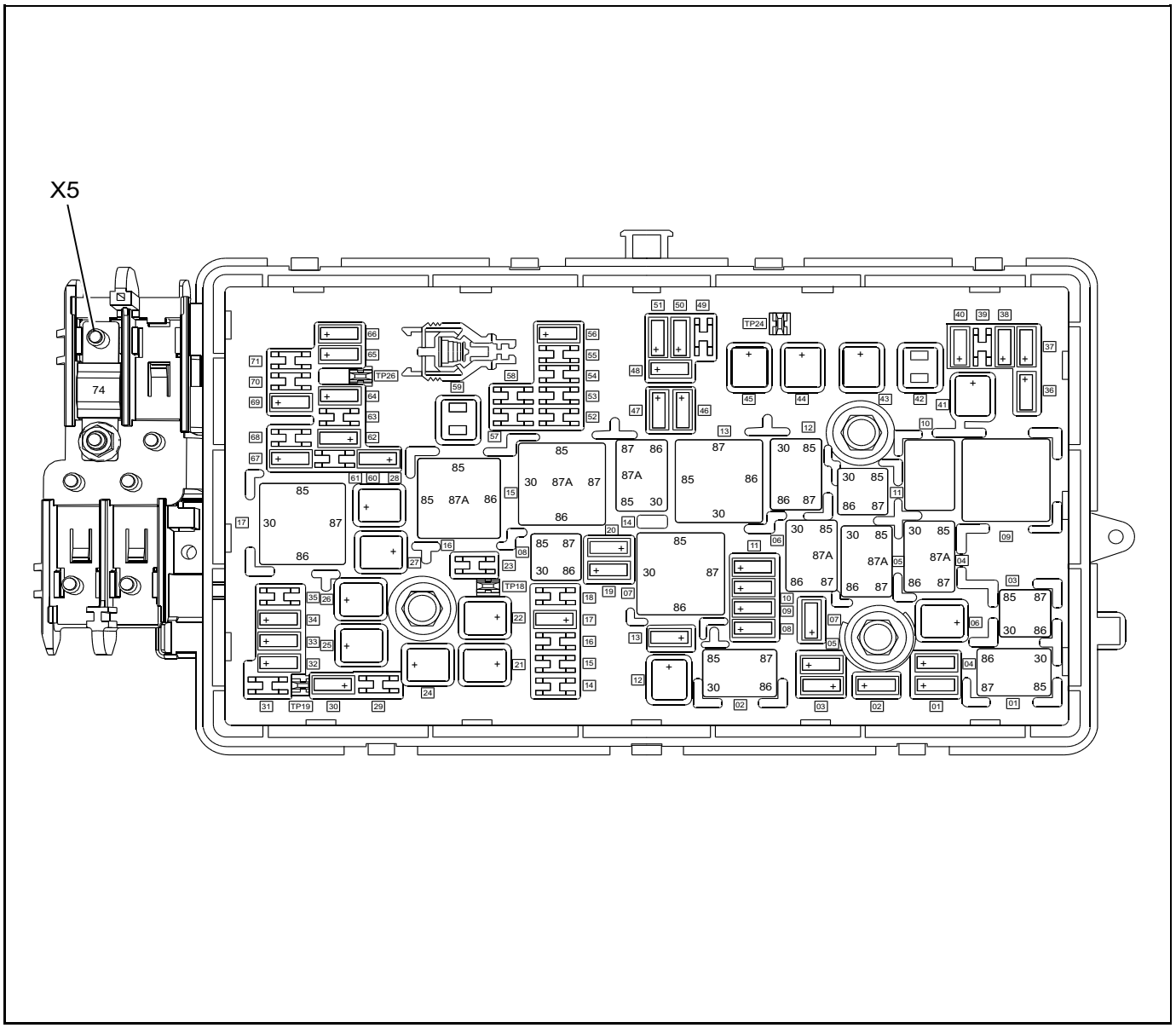
Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
K15	RUN/CRNK	KR73 Ignition Main Relay	—	• F5UA • F13UA • F16UA • F17UA • F18UA • F19UA • F52UA • F53UA • F54UA • F57UA
K16	EMPTY	—	—	• Not Used
K17	REAR WNDW DEFOG	KR5 Rear Defogger Relay	—	• F28UA • F60UA • F63UA • E17D Outside Rearview Mirror Glass – Driver (DL9) • E17P Outside Rearview Mirror Glass – Passenger (DL9) • E18 Rear Defogger Grid (C49)
Note: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.				
—	—	KR3 Horn Relay	—	• F51UA
—	—	KR11 Windshield Washer Pump Relay	—	• F56UA
—	—	KR46 Front Fog Lamp Relay	—	• F48UA
—	—	KR48 Headlamp High Beam Relay	—	• F37UA • F38UA
—	—	KR61 Trailer Backup Lamps Relay	—	• P3 Backup Alarm (8S3) • W8 Blunt Cut - Trailer Provision • X88 Trailer Connector (Z82)
—	—	KR63L Trailer Stop/Turn Signal Lamp Relay - Left	—	• F65UA • X88 Trailer Connector (Z82) • W8 Blunt Cut - Trailer Provision
—	—	KR63R Trailer Stop/Turn Signal Lamp Relay - Right	—	• W8 Blunt Cut - Trailer Provision • X88 Trailer Connector (Z82)
—	—	KR113 Child Security Lock Disable Relay	—	• A23LR Door Latch Assembly - Left Rear • A23P Door Latch Assembly - Passenger • A23RR Door Latch Assembly - Right Rear
—	—	KR175B Front Differential Lock Actuator Low Control Relay	—	• Q9F Differential Lock Actuator - Front • K38A Chassis Control Module - Auxiliary
—	—	KR176B Rear Differential Lock Actuator Low Control Relay	—	• Q9R Differential Lock Actuator - Rear • K38A Chassis Control Module - Auxiliary
Note: Items listed below are diagnostic testing points.				
TP19	—	TP19	—	• Not Used
Note: Items listed below are Door Lock/Indicator system diagnostic testing points.				
TP18	CKT 3271	TP18	—	• KR113 Child Security Lock Disable Relay

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
Note: Items listed below are Trailer Connector/Provision system diagnostic testing points.				
TP24	CKT 1619	TP24	—	• KR63R Trailer Stop/Turn Signal Lamp Relay - Right
TP26	CKT 1624	TP26	—	• KR61 Trailer Backup Lamps Relay

X50A Fuse Block - Underhood Top View (LWN/Diesel)



4102622

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	TCM BATT	F1UA	15A	• Q8 Control Solenoid Valve Assembly (MYB)
F2	ECM BATT	F2UA	15A	• K20 Engine Control Module
F3	A/C CLTCH	F3UA	10A	• KR29 A/C Compressor Clutch Relay • Q2 A/C Compressor Clutch

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F4	NOx SNSR	F4UA	15A	• B136 Exhaust Particulate Matter Sensor (LWN) • B195A Nitrogen Oxides Sensor 1 (LWN) • B195B Nitrogen Oxides Sensor 2 (LWN)
F5	ICCM	F5UA	10A	• B116 Water in Fuel Sensor • K20 Engine Control Module • K71 Transmission Control Module (MYB) • Q8 Control Solenoid Valve Assembly (MYB)
F6	WPR	F6UA	30A	• KR12B Windshield Wiper Relay • KR12C Windshield Wiper Speed Control Relay
F7	CARGO LAMP	F7UA	15A	• KR112 Cargo Lamp Relay
F8	INJ EVEN	F8UA	15A	• K20 Engine Control Module
F9	INJ ODD	F9UA	7.5A	• K20 Engine Control Module
F10	ECM	F10UA	20A	• K20 Engine Control Module
F11	WATER IN FUEL	F11UA	10A	• B75C Multifunction Intake Air Sensor
F12	STRTR	F12UA	30A	• KR27 Starter Relay
F13	TCM RUN/CRNK	F13UA	15A	• K71 Transmission Control Module (MYB) • Q8 Control Solenoid Valve Assembly (MYB)
F14	EMPTY	F14UA	—	• Not Used
F15	EMPTY	F15UA	—	• Not Used
F16	EMPTY	F16UA	—	• Not Used
F17	FRT AXLE ACT	F17UA	10A	• M26 Front Axle Engagement Actuator (NQ6/NQ7)
F18	EMPTY	F18UA	—	• Not Used
F19	EMPTY	F19UA	—	• Not Used
F20	FUEL PUMP	F20UA	20A	• KR23A Fuel Pump Relay
F21	FRT BLWR	F21UA	40A	• K8 Blower Motor Control Module
F22	ABS VLV	F22UA	30A	• K17 Electronic Brake Control Module
F23	EMPTY	F23UA	—	• Not Used
F24	TRLR	F24UA	30A	• X88 Trailer Connector (Z82)
F25	TREC	F25UA	30A	• A16 Transfer Case Motor (NQ6/NQ7) • K69 Transfer Case Control Module (NQ6/NQ7)
F26	ABS PUMP	F26UA	60A	• K17 Electronic Brake Control Module
F27	ITBC	F27UA	30A	• K133 Trailer Brake Power Control Module
F28	REAR WNDW DEFOG	F28UA	40A	• F63UA • E18 Rear Defogger Grid (C49)
F29	EMPTY	F29UA	—	• Not Used
F30	HTD SEAT BATT1	F30UA	15A	• K29 Seat Heating Control Module (KA1)
F31	EMPTY	F31UA	—	• Not Used
F32	HTD SEAT BATT2	F32UA	15A	• K29 Seat Heating Control Module (KA1)
F33	BCM 3	F33UA	20A	• K9 Body Control Module
F34	ICCM	F34UA	10A	• K38 Chassis Control Module
F35	EMPTY	F35UA	—	• Not Used
F36	CHMSL	F36UA	10A	• KR41 Center High Mounted Stop Lamp Relay
F37	HI BEAM RT	F37UA	10A	• E4F Headlamp – Right High Beam
F38	HI BEAM LT	F38UA	10A	• E4E Headlamp – Left High Beam

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F39	EMPTY	F39UA	—	• Not Used
F40	SCRPN	F40UA	5A	• K115 Reductant Control Module
F41	GLOW PLUG MODULE	F41UA	60A	• K20 Engine Control Module
F42	EMPTY	F42UA	—	• Not Used
F43	COOL FAN	F43UA	60A	• K22 Cooling Fan Control Module
F44	FUEL HTR	F44UA	40A	• KR22 Fuel Heater Relay
F45	DIESEL EXH FLUID CNTRL	F45UA	30A	• KR121A Reductant Control Module Relay 1
F46	COOL FAN CLTCH	F46UA	10A	• KR20F Cooling Fan Relay
F47	HTR CRANKCASE VENTILATION	F47UA	7.5A	• E45 Positive Crankcase Ventilation Heater
F48	FOG LAMPS	F48UA	15A	• E29LF Fog Lamp – Left Front (T3U) • E29RF Fog Lamp – Right Front (T3U)
F49	EMPTY	F49UA	—	• Not Used
F50	TRLR PRK LAMPS	F50UA	20A	• X88 Trailer Connector (Z82)
F51	HORN	F51UA	15A	• P13 Horn Assembly
F52	EMPTY	F52UA	—	• Not Used
F53	EMPTY	F53UA	—	• Not Used
F54	EMPTY	F54UA	—	• Not Used
F55	EMPTY	F55UA	—	• Not Used
F56	WASH PUMP	F56UA	15A	• G24 Windshield Washer Pump
F57	EMPTY	F57UA	—	• Not Used
F58	EMPTY	F58UA	—	• Not Used
F59	EMPTY	F59UA	—	• Not Used
F60	MIR DEFOG	F60UA	7.5A	• E17D Outside Rearview Mirror Glass – Driver (DL9) • E17P Outside Rearview Mirror Glass – Passenger (DL9)
F61	EMPTY	F61UA	—	• Not Used
F62	CNSTR VENT SOL	F62UA	10A	• K115 Reductant Control Module
F63	EMPTY	F63UA	—	• Not Used
F64	TRLR REV LAMP	F64UA	10A	• KR61 Trailer Backup Lamps Relay
F65	TRLR STOP/TRN LAMP LT	F65UA	10A	• X88 Trailer Connector (Z82)
F66	TRLR STOP/TRN LAMP RT	F66UA	10A	• KR63R Trailer Stop/Turn Signal Lamp Relay - Right
F67	EPS	F67UA	15A	• K43 Power Steering Control Module
F68	EMPTY	F68UA	—	• Not Used
F69	RVC	F69UA	5A	• K9 Body Control Module
F70	EMPTY	F70UA	—	• Not Used
F71	EMPTY	F71UA	—	• Not Used
F72	EMPTY	F72UB	—	• Not Used
F73	EMPTY	F73UB	—	• Not Used
F74	GEN	F74UB	200A	• G13 Generator
F75	EMPTY	F75UB	—	• Not Used

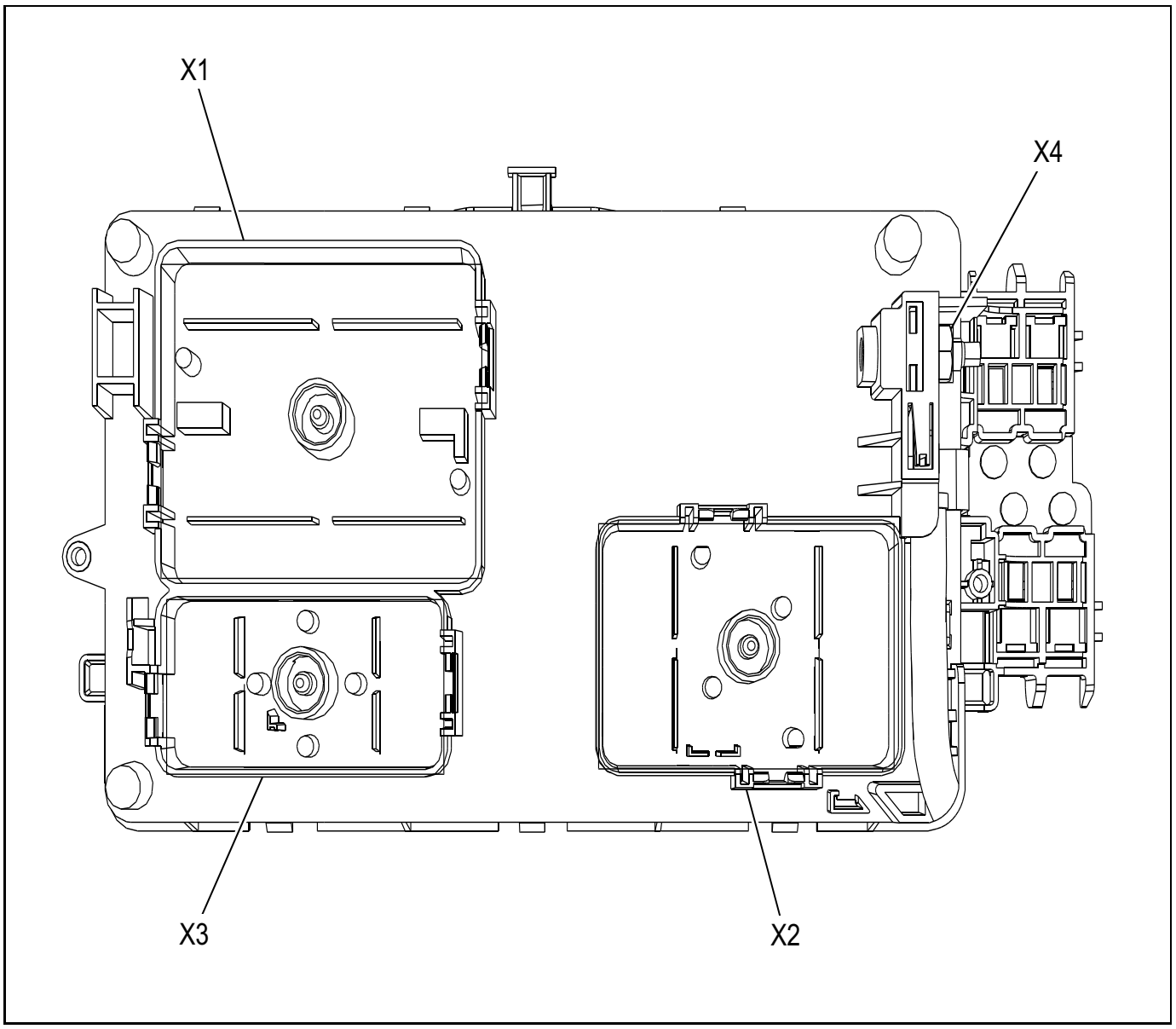
Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
Relays				
K1	A/C CLTCH	KR29 A/C Compressor Clutch Relay	—	• Q2 A/C Compressor Clutch
K2	STRTR	KR27 Starter Relay	—	• M64 Starter Motor
K3	NOx SNSR-SCRPM	KR121B Reductant Control Module Relay 2	—	• F4UA • F44UA • B136 Exhaust Particulate Matter Sensor • B195A Nitrogen Oxides Sensor 1 • B195B Nitrogen Oxides Sensor 2 • K115 Reductant Control Module
K4	WPR SPD	KR12C Windshield Wiper Speed Control Relay	—	• M75 Windshield Wiper Motor
K5	WPR CNTRL	KR12B Windshield Wiper Relay	—	• M75 Windshield Wiper Motor
K6	CARGO LAMP	KR112 Cargo Lamp Relay	—	• E6 Center High Mounted Stop Lamp
K7	PWR TRN	KR75 Engine Controls Ignition Relay	—	• F8UA • F9UA • F10UA • F11UA • F47UA • KR29 A/C Compressor Clutch Relay
K8	FUEL PUMP	KR23A Fuel Pump Relay	—	• A7 Fuel Pump and Level Sensor - Assembly
K9	EMPTY	—	—	• Not Used
K10	EMPTY	—	—	• Not Used
K11	CHMSL	KR41 Center High Mounted Stop Lamp Relay	—	• E6 Center High Mounted Stop Lamp
K12	FUEL HTR	KR22 Fuel Heater Relay	—	• E11B Fuel Heater/Temperature Sensor
K13	DIESEL EXH FLUID CNTRL	KR121A Reductant Control Module Relay 1	—	• K115 Reductant Control Module
K14	PRK LAMPS	KR125 Trailer Park Lamps Relay	—	• F50UA
K15	RUN/CRNK	KR73 Ignition Main Relay	—	• F5UA • F13UA • F16UA • F17UA • F18UA • F19UA • F52UA • F53UA • F54UA • F57UA
K16	COOL FAN CLTCH	KR20F Cooling Fan Relay	—	• K22 Cooling Fan Control Module

Usage Table (cont'd)

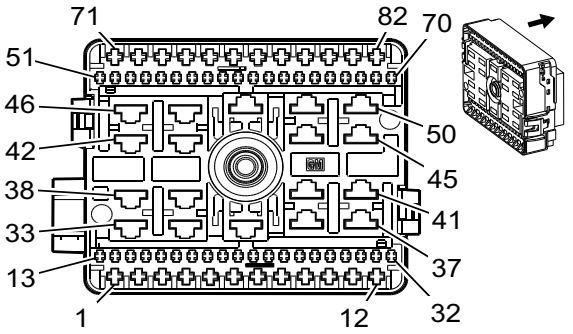
No.	Device Label Name	Device Assigned Name	Rating	Description
K17	REAR WNDW DEFOG	KR5 Rear Defogger Relay	—	• F28UA • F60UA • F63UA • E17D Outside Rearview Mirror Glass – Driver (DL9) • E17P Outside Rearview Mirror Glass – Passenger (DL9) • E18 Rear Defogger Grid (C49)
Note: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.				
—	—	KR3 Horn Relay	—	• F51UA
—	—	KR11 Windshield Washer Pump Relay	—	• F56UA
—	—	KR46 Front Fog Lamp Relay	—	• F48UA
—	—	KR48 Headlamp High Beam Relay	—	• F37UA • F38UA
—	—	KR61 Trailer Backup Lamps Relay	—	• P3 Backup Alarm (8S3) • X88 Trailer Connector (Z82)
—	—	KR63L Trailer Stop/Turn Signal Lamp Relay - Left	—	• F65UA • X88 Trailer Connector (Z82)
—	—	KR63R Trailer Stop/Turn Signal Lamp Relay - Right	—	• X88 Trailer Connector (Z82)
—	—	KR113 Child Security Lock Disable Relay	—	• A23LR Door Latch Assembly - Left Rear • A23P Door Latch Assembly - Passenger • A23RR Door Latch Assembly - Right Rear
Note: Items listed below are diagnostic testing points.				
TP19	—	TP19	—	• Not Used
Note: Items listed below are Door Lock/Indicator system diagnostic testing points.				
TP18	CKT 3271	TP18	—	• KR113 Child Security Lock Disable Relay
Note: Items listed below are Trailer Connector/Provision system diagnostic testing points.				
TP24	CKT 1619	TP24	—	• KR63R Trailer Stop/Turn Signal Lamp Relay - Right
TP26	CKT 1624	TP26	—	• KR61 Trailer Backup Lamps Relay

X50A Fuse Block - Underhood Bottom View



3788616

X50A Fuse Block - Underhood X1



2174006

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13262028
Service Connector: 13576528
Description: 82-Way F 1.5, 2.8 DSQ, 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	13575774	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
II	13575780	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
III	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IV	13579978	J-35616-44 (YE)	J-38125-558	12065915	Delphi 5	A	D
V	19366953	J-35616-44 (YE)	J-38125-558	12092445	Delphi 18	G	G
VI	19366953	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
VII	19366953	J-35616-44 (YE)	J-38125-558	Not Available	Not Available	Not Available	Not Available
VIII	19368323	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available

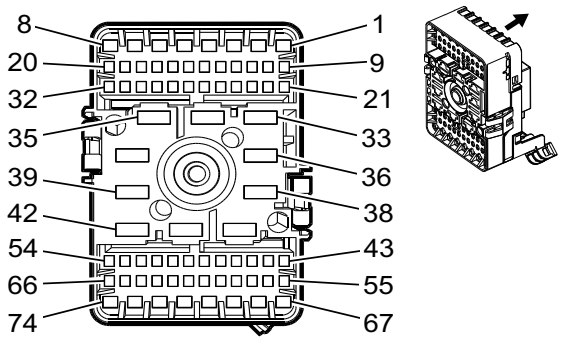
X50A Fuse Block - Underhood X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/BN	7258	Rear Differential Lock Actuator Supply Voltage	II	—
2	1	VT/WH	7256	Front Differential Lock Actuator Supply Voltage	II	—
3 - 7	—	—	—	Not Occupied	—	—
8	1.5	BN	2109	Trailer Park Lamp Control	III	—
9 - 10	—	—	—	Not Occupied	—	—
11	0.75	BN/GY	29	Horn Control	II	—
12	—	—	—	Not Occupied	—	—
13	0.75	WH	311	Right Headlamp High Beam Control	I	—
14	0.5	WH	711	Left Headlamp High Beam Control	I	—

X50A Fuse Block - Underhood X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
15 - 29	—	—	—	Not Occupied	—	—
30	0.75	GY/VT	228	Windshield Washer Pump Control	I	—
31	0.75	BN/VT	2234	Front Fog Lamp Control	I	—
32 - 34	—	—	—	Not Occupied	—	—
35	6	RD/GY	4840	Battery Positive Voltage	VII	—
36 - 37	—	—	—	Not Occupied	—	—
38	4	BN/BU	104	Glow Plug Control	V	—
39 - 40	—	—	—	Not Occupied	—	—
41	1.5	GN/BU	3889	DEF Power Module Relay Control	IV	—
42 - 48	—	—	—	Not Occupied	—	—
49	2.5	BU/GN	7071	Heater Fuel Control	VI	—
50	2.5 4	BN/VT BU	1470 3921	Brake Booster Pump Motor Control DEF Heater Supply 1	VI VI	BTV+LGZ+ZR2-T3U BTV+LWN+ZR2-T3U
51	—	—	—	Not Occupied	—	—
52	0.5	BU/WH	7120	Rear Axle Differential Lock Control	I	—
53 - 67	—	—	—	Not Occupied	—	—
68	1.5	GN/BU	3889	DEF Power Module Relay Control	VIII	—
69	0.5	WH/VT	4333	Aero Shutter Actuator Control	I	—
70	—	—	—	Not Occupied	—	—
71	0.75	BK	1150	Ground	II	—
72	1.5	WH	92	Windshield Wiper Motor High Speed Control	III	—
73	1.5	YE/BN	95	Windshield Wiper Motor Low Speed Control	III	—
74	1.5	BK	3150	Ground	III	—
75	0.35	VT/GY	1054	Stop Lamp Control	II	—
76 - 79	—	—	—	Not Occupied	—	—
80	0.75	WH/VT	1430	Exterior Courtesy Lamp Control	II	—
81 - 82	—	—	—	Not Occupied	—	—

X50A Fuse Block - Underhood X2



2174004

Connector Part Information

Harness Type: Body
OEM Connector: 13732284
Service Connector: 13576544
Description: 74-Way F 1.5, 2.8 DSQ, 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	13575541	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13575774	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IV	13578884	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
V	19366953	J-35616-44 (YE)	J-38125-558	12092445	Delphi 18	G	G
VI	19366953	J-35616-44 (YE)	J-38125-558	12110127	Delphi 19	F	G
VII	19366953	J-35616-44 (YE)	J-38125-558	Not Available	Not Available	Not Available	Not Available
VIII	19368323	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available

X50A Fuse Block - Underhood X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	WH/BK	7254	Front Differential Lock Actuator Low Control	I	—
2	1.5	BK	3950	Ground	III	—
3	1	GY/BK	7253	Rear Differential Lock Actuator Low Control	I	—
4	0.75 1.5	GY GY	295 295	Door Lock Actuator Lock Control Door Lock Actuator Lock Control	IV III	CREW CAB EXTENDED CAB
5	1.5	WH/BU	3266	Child Security Lock Motor Lock Control	III	—
6	2.5	GY	120	Fuel Pump Control	III	—
7 - 10	—	—	—	Not Occupied	—	—
11	0.5	GN/BK	7118	Front Axle Differential Lock Low Reference	II	—

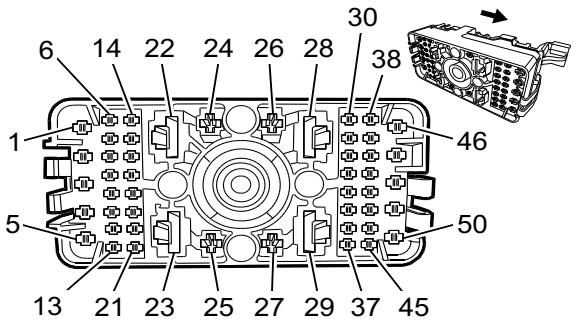
X50A Fuse Block - Underhood X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
12	1.5	GY/GN	3271	Door Lock Control 2	VIII	—
13	0.5	VT/YE	3267	Child Security Lock Relay Control	II	—
14	0.75	VT/BK	2139	Run/Crank Ignition 1 Voltage	II	—
15 - 16	—	—	—	Not Occupied	—	—
17	0.5	GN/VT	5199	Run/Crank Relay Coil Control	II	—
18	—	—	—	Not Occupied	—	—
19	0.5	BN/WH	1317	Fog Lamp Relay Control	II	—
20	0.5	VT/BK	7121	Rear Axle Differential Lock Low Reference	II	—
21	—	—	—	Not Occupied	—	—
22	0.5	GY	91	Windshield Wiper Motor Relay Coil Control	II	—
23	—	—	—	Not Occupied	—	—
24	0.5	BU	45	Park Lamp Relay Control	II	—
25	0.5	BN/WH	28	Horn Relay Control	II	—
26 - 29	—	—	—	Not Occupied	—	—
30	0.75	GN	1619	Right Rear Trailer Stop/Turn Lamp Control	II	—
31 - 32	—	—	—	Not Occupied	—	—
33	2.5	RD/VT	542	Battery Positive Voltage	VI	—
34	2.5	RD/YE	442	Battery Positive Voltage	VI	—
35	—	—	—	Not Occupied	—	—
36	4	OG	742	Battery Positive Voltage	V	—
37	2.5	RD/GN	242	Battery Positive Voltage	VI	—
38	—	—	—	Not Occupied	—	—
39	2.5	BN/VT	293	Rear Defog Element Control	VI	—
40	2.5	RD/GY	1342	Battery Positive Voltage	VII	—
41	4	RD/GY	1042	Battery Positive Voltage	VI	—
42	2.5	RD/GN	242	Battery Positive Voltage	VI	—
43	0.5	BK	3150	Ground	II	—
44	—	—	—	Not Occupied	—	—
45	0.5	WH/VT	860	Front Windshield Wiper Switch High Signal	II	—
46	0.5	VT/WH	5065	Stop Lamp Relay Coil Control	II	—
47	0.5	BN/WH	1429	Standing Lamp Relay Control	II	—
48	0.5	BU/BN	38	Backup Lamp Relay Control	II	—
49	0.5	BU/WH	5186	Left Trailer Turn Signal Lamp Control	II	—
50	—	—	—	Not Occupied	—	—
51	0.75	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	II	—
52	0.75	GY	1624	Trailer Backup Lamp Control	II	—
53 - 55	—	—	—	Not Occupied	—	—
56	0.75	RD/GN	5140	Battery Positive Voltage	II	—
57	—	—	—	Not Occupied	—	—
58	0.5	BN/VT	1969	Headlamp High Beam Relay Control	II	—
59	0.5	YE/GY	5187	Right Trailer Turn Signal Lamp Control	II	—
60	0.5	BN/GY	2268	Windshield Washer Relay Control	II	—
61	0.5	BN/VT	193	Rear Defog Relay Control	II	—
62	0.5	BN/YE	2267	Mirror Heating Element Control	II	—
63 - 67	—	—	—	Not Occupied	—	—

X50A Fuse Block - Underhood X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
68	0.75	RD/GN	6140	Battery Positive Voltage	I	—
69	2.5	RD/YE	2340	Battery Positive Voltage	III	—
70	2.5	RD/VT	1940	Battery Positive Voltage	III	—
71	2.5	RD/VT	1940	Battery Positive Voltage	III	—
72	0.75	RD/BN	440	Battery Positive Voltage	I	—
73	0.5	RD/GN	2440	Battery Positive Voltage	I	—
74	0.5	RD/BN	5940	Battery Positive Voltage	I	—

X50A Fuse Block - Underhood X3



2220560

Connector Part Information

Harness Type: Engine
OEM Connector: 13732282
Service Connector: 13505902
Description: 50-Way F 1.5, 2.8 DSQ, 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	13575541	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	13575774	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	13575781	J-35616-35 (VT)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IV	19368323	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available

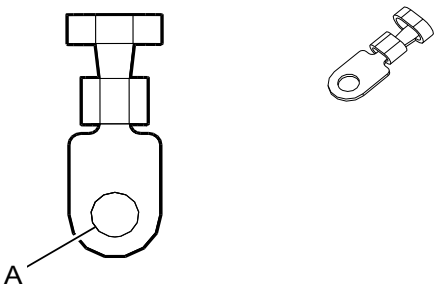
X50A Fuse Block - Underhood X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/BU	5290	Powertrain Main Relay Fused Supply 1	III	—
	1	VT/BU	5290	Powertrain Main Relay Fused Supply 1	III	—
	2	VT/BU	5290	Powertrain Main Relay Fused Supply 1	III	—
	2.5	VT/BU	5290	Powertrain Main Relay Fused Supply 1	III	—
2	0.75	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—
3	0.75	VT/BU	5292	Powertrain Main Relay Fused Supply 3	I	—
	1.5	VT/BU	5292	Powertrain Main Relay Fused Supply 3	III	—
4	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	—
5	2	YE	6	Starter Solenoid Crank Ignition Voltage	III	—
	2.5	YE	6	Starter Solenoid Crank Ignition Voltage	III	—
6	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	II	—
7	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply 5	II	—
	0.75	VT/BU	5294	Powertrain Main Relay Fused Supply 5	II	—
8	—	—	—	Not Occupied	—	—
9	0.5	GN/GY	465	Fuel Pump Primary Relay Control	II	—
10	—	—	—	Not Occupied	—	—

X50A Fuse Block - Underhood X3 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
11	0.5	YE/BK	625	Starter Enable Relay Control	II	—
	0.5	VT/GY	6386	Starter Enable Relay (PPEI 3) Control	II	—
12	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	II	—
13	0.75	BK/WH	151	Signal Ground	II	—
14	—	—	—	Not Occupied	—	—
15	0.5	GN/BU	3889	DEF Power Module Relay Control	II	—
	0.5	BN	6305	Brake Vacuum Switch Signal	II	—
16	—	—	—	Not Occupied	—	—
17	0.5	YE	5991	Powertrain Relay Coil Control	II	—
18 - 19	—	—	—	Not Occupied	—	—
20	0.75	VT/GY	139	Run/Crank Ignition 1 Voltage	II	—
	1	VT/GY	139	Run/Crank Ignition 1 Voltage	II	—
	1	VT/GY	139	Run/Crank Ignition 1 Voltage	III	—
	1	VT/GY	139	Run/Crank Ignition 1 Voltage	I	—
21	0.5	BK	1450	Ground	II	—
22 - 26	—	—	—	Not Occupied	—	—
27	0.5	RD/WH	140	Battery Positive Voltage	I	—
28 - 29	—	—	—	Not Occupied	—	—
30	0.5	WH	2368	Cooling Fan Control Signal	II	—
	0.5	VT/BU	5290	Powertrain Main Relay Fused Supply 1	II	—
31 - 32	—	—	—	Not Occupied	—	—
33	0.5	VT/GN	4320	Selective Catalytic Reduction Power Module Wake-Up Signal	II	—
34	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	II	—
35	1.5	VT/BU	3674	NOx Sensor 1 Control	IV	—
36	—	—	—	Not Occupied	—	—
37	0.75	RD/GN	1840	Battery Positive Voltage	II	—
38 - 39	—	—	—	Not Occupied	—	—
40	0.5	BU	3017	Fuel Heater Relay Control 1	II	—
41 - 45	—	—	—	Not Occupied	—	—
46	0.5	BU/BK	7116	Front Axle Differential Lock Control	II	—
	0.5	BU/BK	7116	Front Axle Differential Lock Control	I	—
47 - 48	—	—	—	Not Occupied	—	—
49	0.5	GN/BU	3889	DEF Power Module Relay Control	I	—
50	0.75	BN/GN	59	A/C Compressor Clutch Control	I	—

X50A Fuse Block - Underhood X4



2892235

Connector Part Information

Harness Type: Fuse Block - Underhood
OEM Connector: 15327720
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way Ring Terminal

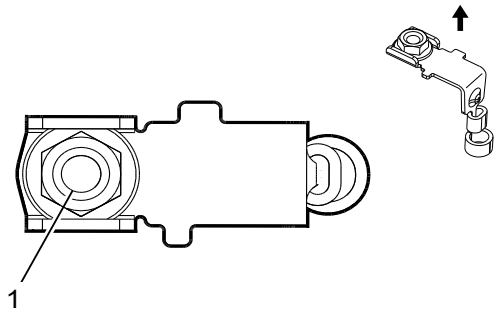
Terminal Part Information

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

X50A Fuse Block - Underhood X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD/WH	4042	Battery Positive Voltage	I	—

X50A Fuse Block - Underhood X5



2173547

Connector Part Information

Harness Type: Battery Cable Negative
OEM Connector: 1193803
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way Ring Terminal

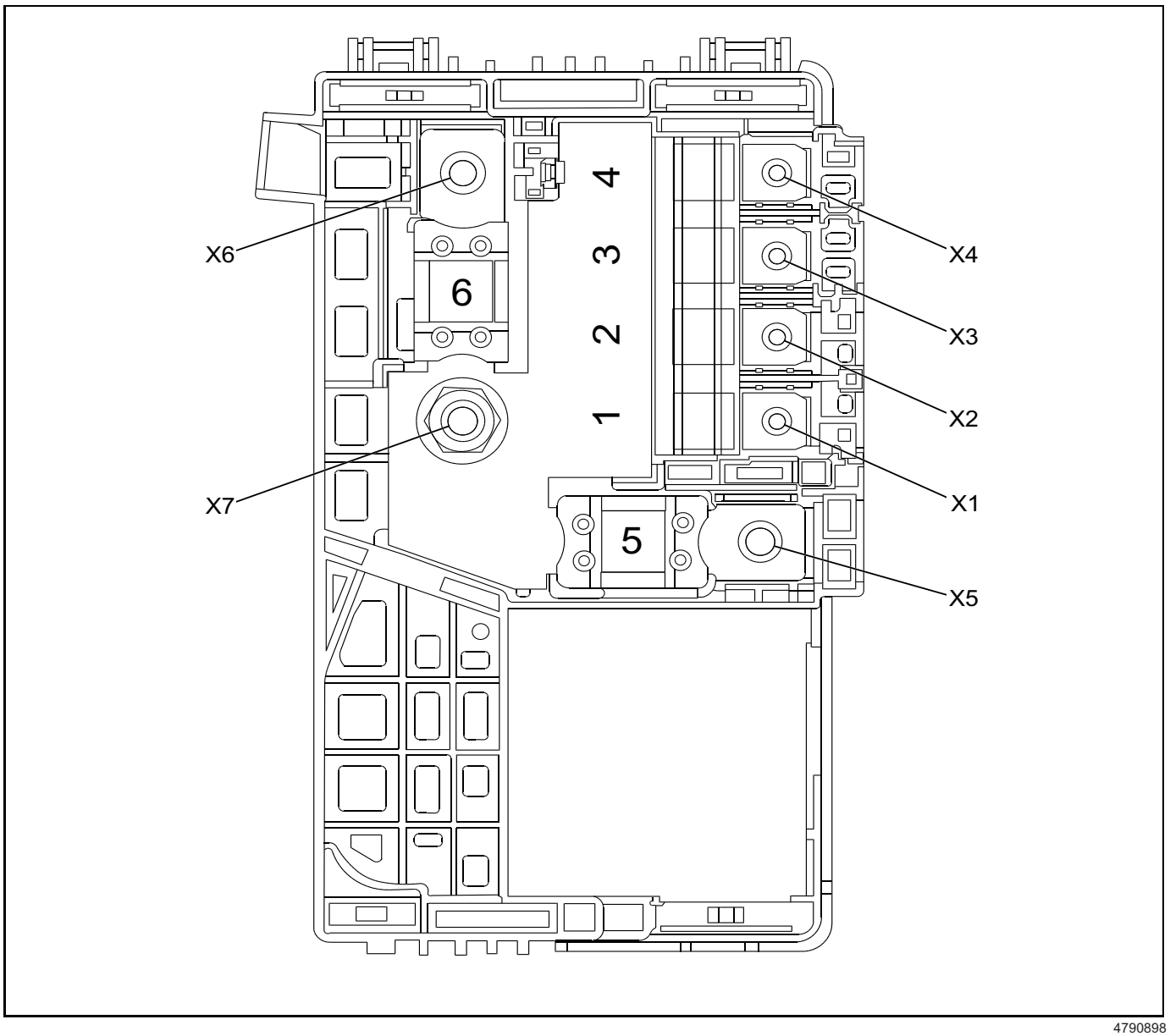
Terminal Part Information

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

X50A Fuse Block - Underhood X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	25	RD/YE	2	Battery Positive Voltage	I	—

X50D Fuse Block - Battery Top View

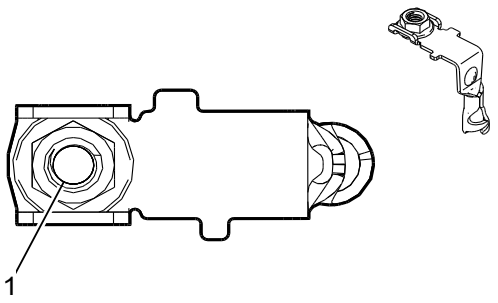


4790898

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
1	—	F1UB	100A	• K43 Power Steering Control Module
2	—	F2UB	100A	• X51A Fuse Block – Instrument Panel
3	—	F3UB	100A	• X51A Fuse Block – Instrument Panel
4	—	F4UB	100A	• K22 Cooling Fan Control Module
5	—	F5UB	250A	• X50A Fuse Block – Underhood
6	—	F6UB	300A	• M64 Starter Motor

T3 Audio Amplifier X2



2772379

Connector Part Information

Harness Type: Battery Cable Negative
OEM Connector: 13869257
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

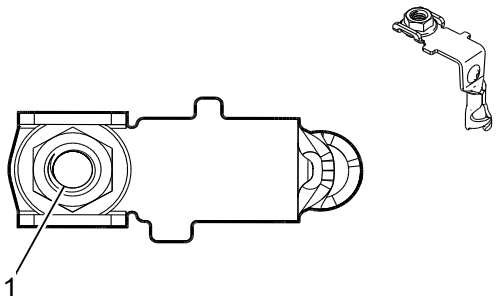
Terminal Part Information

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

T3 Audio Amplifier X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	10	RD/VT	842	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X2 (LCV/LGZ/LWN)



2772384

Connector Part Information

Harness Type: Body
OEM Connector: 13869259
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

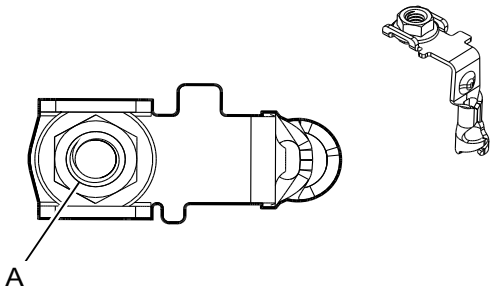
Terminal Part Information

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

X50D Fuse Block - Battery X2 (LCV/LGZ/LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	10	RD/BU	42	Battery Positive Voltage	I	LCV
	10	RD/VT	842	Battery Positive Voltage	I	LGZ

X50D Fuse Block - Battery X3 (LCV/LGZ/LWN)



2759566

Connector Part Information

Harness Type: Body
OEM Connector: 13869260
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

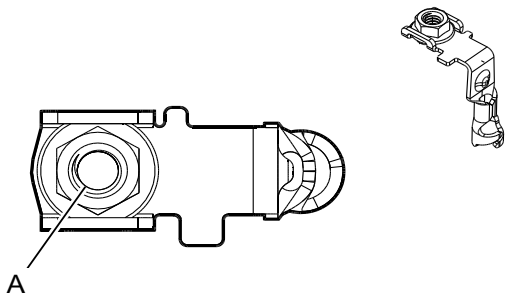
Terminal Part Information

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

X50D Fuse Block - Battery X3 (LCV/LGZ/LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/BU	42	Battery Positive Voltage	I	LCV
	10	RD/VT	842	Battery Positive Voltage	I	LGZ

X50D Fuse Block - Battery X4 (LGZ)



2759576

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13869288
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

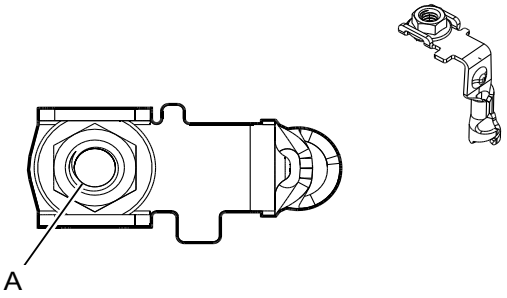
Terminal Part Information

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

X50D Fuse Block - Battery X4 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/GY	4840	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X4 (LWN)



2759576

Connector Part Information

Harness Type: Body
OEM Connector: 13869288
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

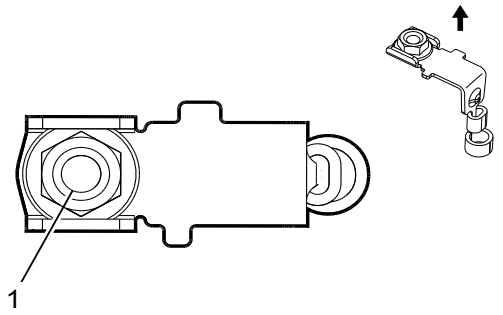
Terminal Part Information

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

X50D Fuse Block - Battery X4 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	10	RD/GY	4840	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X5



2173547

Connector Part Information

Harness Type: Battery Cable Positive
OEM Connector: 1193803
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way Ring Terminal

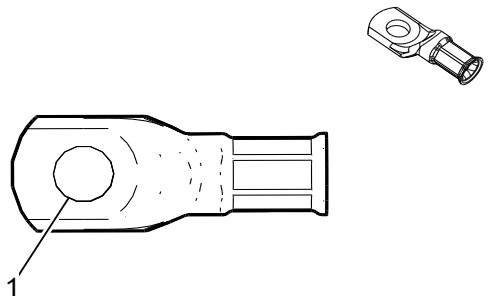
Terminal Part Information

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

X50D Fuse Block - Battery X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	25	RD/WH	4042	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X6



2772406

Connector Part Information

Harness Type: Battery Cable Positive
OEM Connector: 10730988
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

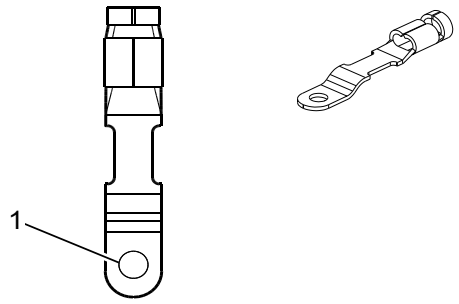
Terminal Part Information

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

X50D Fuse Block - Battery X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	35	RD/YE	2	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X6 (LWN)



4880301

Connector Part Information

Harness Type: Battery Cable Positive
OEM Connector: AXZ47063
Service Connector: Service by Harness - See Part Catalog
Description: 1-Way Ring Terminal

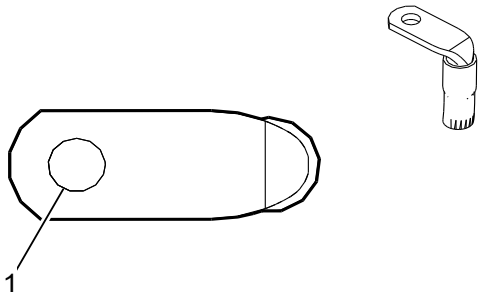
Terminal Part Information

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

X50D Fuse Block - Battery X6 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	50	RD/YE	2	Battery Positive Voltage	I	—

X50D Fuse Block - Battery X7



2772389

Connector Part Information

Harness Type: Battery Cable Positive
OEM Connector: 13644223
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

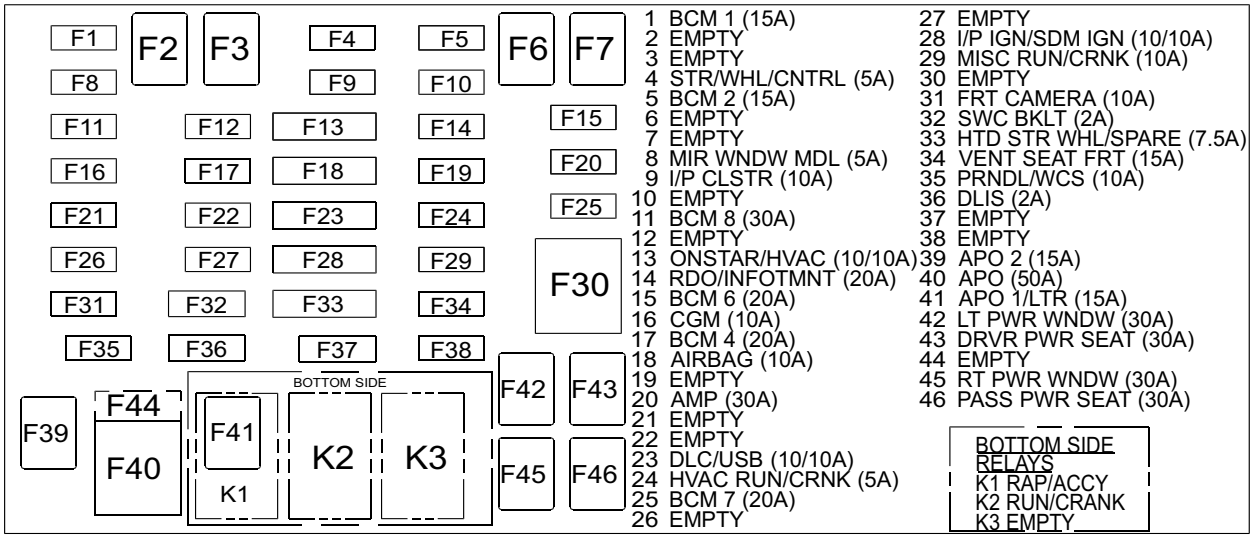
Terminal Part Information

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

X50D Fuse Block - Battery X7

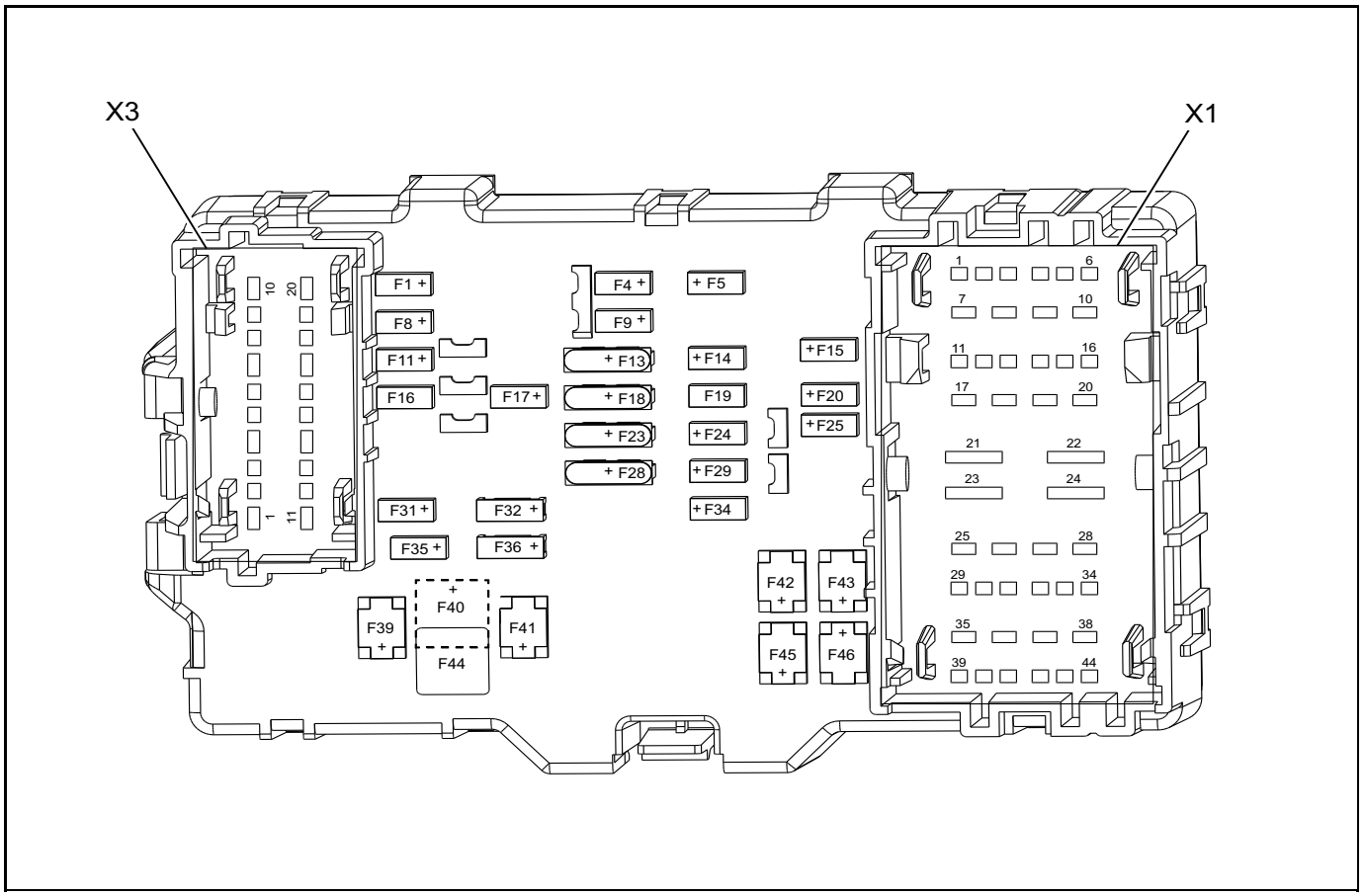
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	35	RD	1	Unfused Battery Positive Voltage	I	LCV
	35	RD	2	Battery Positive Voltage	I	LGZ

X51A Fuse Block - Instrument Panel Label



4649898

X51A Fuse Block - Instrument Panel Top View Fuses



3818716

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	BCM 1	F1DA	15A	• K9 Body Control Module
F2	EMPTY	F2DA	—	• Not Used
F3	EMPTY	F3DA	—	• Not Used
F4	STR/WHL/CNTRL	F4DA	5A	• S70L Steering Wheel Controls Switch - Left • S70R Steering Wheel Controls Switch - Right
F5	BCM 2	F5DA	15A	• K9 Body Control Module
F6	EMPTY	F6DA	—	• Not Used
F7	EMPTY	F7DA	—	• Not Used
F8	MIR WNDW MDL	F8DA	5A	• S79D Window Switch - Driver • S52 Outside Rearview Mirror Switch (DL6/DL9)
F9	I/P CLSTR	F9DA	10A	• P16 Instrument Cluster • P17 Info Display Module • S32D Seat Heating Switch - Driver (KA1) • S32P Seat Heating Switch - Passenger (KA1) • A26 HVAC Controls
F10	EMPTY	F10DA	—	• Not Used
F11	BCM 8	F11DA	30A	• K9 Body Control Module
F12	EMPTY	F12DA	—	• Not Used

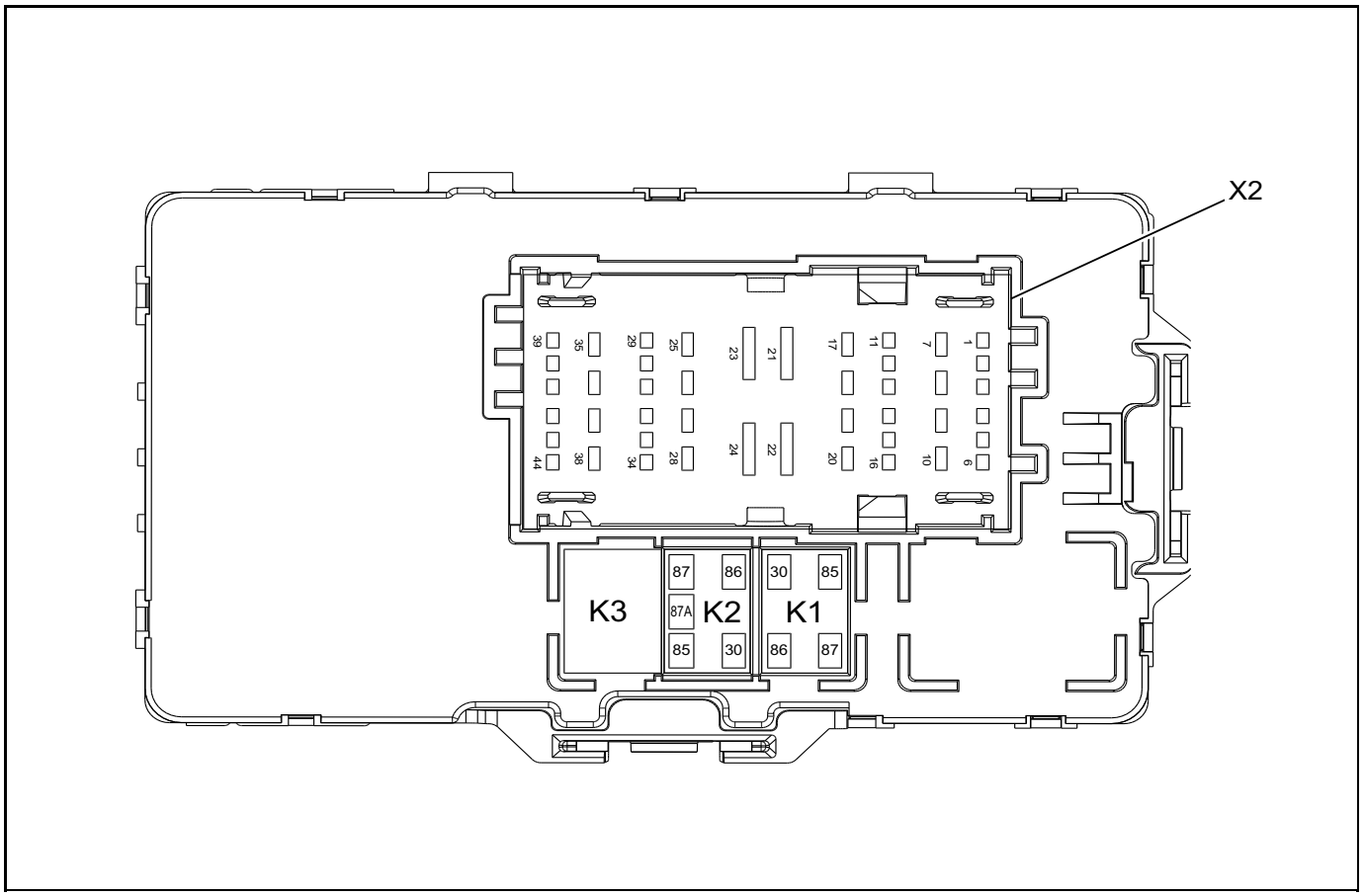
Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F13	ONSTAR/HVAC	F13DA	10A	• K33 HVAC Control Module • K73 Telematics Communication Interface Control Module (UE1)
F14	RDO/INFOTMNT	F14DA	20A	• A11 Radio • K74 Human Machine Interface Control Module (IO4/IO5/IO6)
F15	BCM 6	F15DA	20A	• K9 Body Control Module
F16	EMPTY	F16DA	—	• Not Used
F17	BCM 4	F17DA	20A	• K9 Body Control Module
F18	AIRBAG	F18DA	10A	• K85 Passenger Presence Module • K36 Inflatable Restraint Sensing and Diagnostic Module
F19	EMPTY	F19DA	—	• Not Used
F20	AMP	F20DA	30A	• T3 Audio Amplifier (UQA)
F21	EMPTY	F21DA	—	• Not Used
F22	EMPTY	F22DA	—	• Not Used
F23	DLC/USB	F23DA	10A	• X84 Data Link Connector • X83 Auxiliary Audio Input • X83R Auxiliary Audio Input - Rear
F24	HVAC RUN/CRNK	F24DA	5A	• E40 Electrical Auxiliary Heater (LWN) • K33 HVAC Control Module
F25	BCM 7	F25DA	20A	• K9 Body Control Module
F26	EMPTY	F26DA	—	• Not Used
F27	EMPTY	F27DA	—	• Not Used
F28	I/P IGN/SDM IGN	F28DA	10A	• P14 Passenger Air Bag Disabled Indicator • P16 Instrument Cluster • and P43 Collision Alert Indicators (UEU)
F29	MISC RUN/CRNK	F29DA	10A	• B87 Rearview Camera • K69 Transfer Case Control Module (NQ6/NQ7) • A10 Inside Rearview Mirror
F30	EMPTY	F30DA	—	• Not Used
F31	FRT CAMERA	F31DA	10A	• K109 Frontview Camera Module (UEU/UFL)
F32	SWC BKLT	F32DA	2A	• S48A Multifunction Switch - Instrument Panel • S77 Transfer Case Shift Control Switch (NQ6/NQ7) • S30 Headlamp Switch • X85 Steering Wheel Air Bag Coil
F33	EMPTY	F33DA	—	• Not Used
F34	EMPTY	F34DA	—	• Not Used
F35	PRNDL	F35DA	10A	• P2 Transmission Shift Lever Position Indicator (MYB)
F36	DLIS	F36DA	2A	• S39 Ignition Switch
F37	EMPTY	F37DA	—	• Not Used
F38	EMPTY	F38DA	—	• Not Used

Usage Table (cont'd)

No.	Device Label Name	Device Assigned Name	Rating	Description
F39	APO 2	F39DA	15A	• X80B Accessory Power Receptacle - Center Console 2
F40	EMPTY	F40DA	50A	• F39DA • F41DA • X80A Accessory Power Receptacle - Center Console 1 • X80B Accessory Power Receptacle - Center Console 2 • E32 Cigarette Lighter Receptacle (SAO)
F41	APO 1/LTR	F41DA	15A	• E32 Cigarette Lighter Receptacle (SAO) • X80A Accessory Power Receptacle - Center Console 1
F42	LT PWR WNDW	F42DA	30A	• M74D Window Motor - Driver • S79LR Window Switch - Left Rear
F43	DRVR PWR SEAT	F43DA	30A	• S64D Seat Adjuster Switch - Driver
F44	APO	F44DA	50A	• F39DA • F41DA • X80A Accessory Power Receptacle - Center Console 1 • X80B Accessory Power Receptacle - Center Console 2 • E32 Cigarette Lighter Receptacle (SAO)
F45	RT PWR WNDW	F45DA	30A	• S79P Window Switch - Passenger • S79RR Window Switch - Right Rear
F46	PASS PWR SEAT	F46DA	30A	• S64P Seat Adjuster Switch - Passenger (AAQ)

X51A Fuse Block - Instrument Panel Bottom View Relays

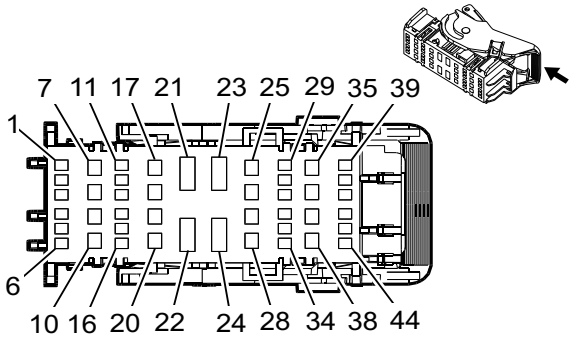


3818830

Usage Table

No.	Device Label Name	Device Assigned Name	Rating	Description
Relays				
K1	K1	KR76 Retained Accessory Power Relay	—	• F35DA • F44DA
K2	K2	KR73 Ignition Main Relay	—	• F24DA • F28DA • F29DA
K3	K3	—	—	• Not Used

X51A Fuse Block - Instrument Panel X1



3240123

Connector Part Information

Harness Type: Body
OEM Connector: 13967687
Service Connector: 19329455
Description: 44-Way F 1.5, 2.8, 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	19301752	J-35616-35 (VT)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	Not Required	J-35616-44 (YE)	No Tool Required	Not Available	Not Available	Not Available	Not Available

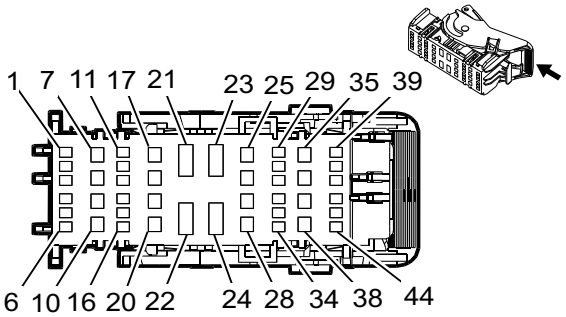
X51A Fuse Block - Instrument Panel X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/BN	2240	Battery Positive Voltage	II	—
2	0.5	RD/GY	2840	Battery Positive Voltage	II	—
3	0.35	RD/YE	3040	Battery Positive Voltage	II	—
4	0.5	RD/GY	2140	Battery Positive Voltage	II	—
5	0.5	RD/GN	4440	Battery Positive Voltage	II	—
6 - 13	—	—	—	Not Occupied	—	—
14	0.35	RD/BU	3240	Battery Positive Voltage	II	—
15	—	—	—	Not Occupied	—	—
16	0.35	RD/VT	1940	Battery Positive Voltage	II	—
17	2.5	RD/YE	3740	Battery Positive Voltage	I	—
18	1.5	RD/WH	2740	Battery Positive Voltage	I	—
19	1.5	RD/VT	2640	Battery Positive Voltage	I	—
20	—	—	—	Not Occupied	—	—
21	10	RD/VT	842	Battery Positive Voltage	III	—
22	—	—	—	Not Occupied	—	—
23	10	RD/BU	42	Battery Positive Voltage	III	—
24	—	—	—	Not Occupied	—	—

X51A Fuse Block - Instrument Panel X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
25	2.5	RD/BU	1240	Battery Positive Voltage	I	—
26	—	—	—	Not Occupied	—	—
27	2.5	RD/YE	5040	Battery Positive Voltage	I	—
28 - 29	—	—	—	Not Occupied	—	—
30	0.75	VT/BK	1239	Run/Crank Ignition 1 Voltage	II	—
31	—	—	—	Not Occupied	—	—
32	0.35	VT/GN	1739	Run/Crank Ignition 1 Voltage	II	—
33 - 34	—	—	—	Not Occupied	—	—
35	2.5	RD/WH	1340	Battery Positive Voltage	I	—
36	2.5	RD/BN	1440	Battery Positive Voltage	I	—
37 - 41	—	—	—	Not Occupied	—	—
42	0.35	GN/VT	5199	Run/Crank Relay Coil Control	II	—
43	0.35	GY/VT	755	RAP Relay Coil Control	II	—
44	0.35	VT	801	Retained Accessory Power Fuse Control	II	—

X51A Fuse Block - Instrument Panel X2



3240119

Connector Part Information

Harness Type: Body
OEM Connector: 13967688
Service Connector: 19329456
Description: 44-Way F 1.5, 2.8, 800 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	19300649	J-35616-16 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	19301752	J-35616-35 (VT)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
III	19301761	J-35616-35 (VT)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
IV	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

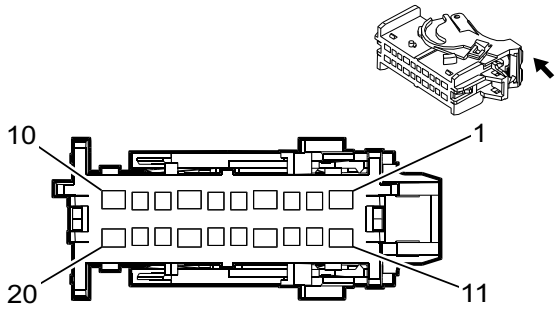
X51A Fuse Block - Instrument Panel X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	YE	6817	LED Backlight Dimming Control	IV	—
4	0.35	BN	6136	Control	IV	—
5	0.5	RD/BU	540	Battery Positive Voltage	IV	—
6	—	—	—	Not Occupied	—	—
7	2.5	RD/VT	4040	Battery Positive Voltage	II	—
8	0.35	RD/WH	6440	Battery Positive Voltage	I	—
9	—	—	—	Not Occupied	—	—
10	1.5	VT	2101	Retained Accessory Power Fuse Ignition	II	—
11 - 13	—	—	—	Not Occupied	—	—
14	0.5	RD/VT	340	Battery Positive Voltage	IV	—
15	0.5	VT/WH	1139	Run/Crank Ignition 1 Voltage	IV	—
16 - 17	—	—	—	Not Occupied	—	—
18	2.5	RD/GN	2440	Battery Positive Voltage	II	—
19	—	—	—	Not Occupied	—	—
20	1.5	VT	1701	Retained Accessory Power Ignition	II	—

X51A Fuse Block - Instrument Panel X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21 - 24	—	—	—	Not Occupied	—	—
25	0.5	RD/VT	3340	Battery Positive Voltage	I	—
26	—	—	—	Not Occupied	—	—
27	0.5	RD/WH	640	Battery Positive Voltage	I	—
28	0.5	VT/BK	1639	Run/Crank Ignition 1 Voltage	I	—
29 - 34	—	—	—	Not Occupied	—	—
35	1	RD/VT	340	Battery Positive Voltage	III	—
36	—	—	—	Not Occupied	—	—
37	0.35	VT/GY	539	Run/Crank Ignition 1 Voltage	I	—
38	0.5	VT/GN	1739	Run/Crank Ignition 1 Voltage	I	—
39 - 43	—	—	—	Not Occupied	—	—
44	0.75	BK	2050	Ground	IV	—

X51A Fuse Block - Instrument Panel X3



3240104

Connector Part Information

Harness Type: Body
OEM Connector: 15547106
Service Connector: 13597270
Description: 20-Way F 1.5, 2.8 OCS Series (BK)

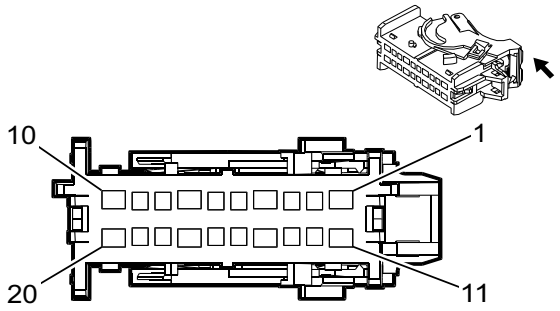
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13576369	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
II	19300649	J-35616-16 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

X51A Fuse Block - Instrument Panel X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 10	—	—	—	Not Occupied	—	—
11	0.5	VT	4601	Retained Accessory Power Fused Control	II	—
12	0.35	RD/GN	3140	Battery Positive Voltage	I	—
13	0.5	VT/GN	1739	Run/Crank Ignition 1 Voltage	I	—
14	0.35	VT/WH	1139	Run/Crank Ignition 1 Voltage	II	—
15 - 20	—	—	—	Not Occupied	—	—

X51A Fuse Block - Instrument Panel X3 (LCV/LFX+N8D)



3240104

Connector Part Information

Harness Type: Body
OEM Connector: 15522322
Service Connector: 13597270
Description: 20-Way F 1.5, 2.8 Series (BK)

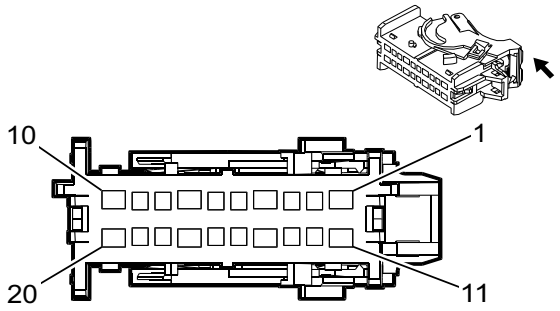
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-35 (VT)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

X51A Fuse Block - Instrument Panel X3 (LCV/LFX+N8D)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 11	—	—	—	Not Occupied	—	—
12	0.35	RD/L-GN	3140	Battery Positive Voltage	II	—
13	0.5	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	II	—
14	0.35	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
15 - 20	—	—	—	Not Occupied	—	—

X51A Fuse Block - Instrument Panel X3 (LCV/LFX-N8D)



3240104

Connector Part Information

Harness Type: Body
OEM Connector: 15547106
Service Connector: 13597270
Description: 20-Way F 1.5, 2.8 OCS Series (BK)

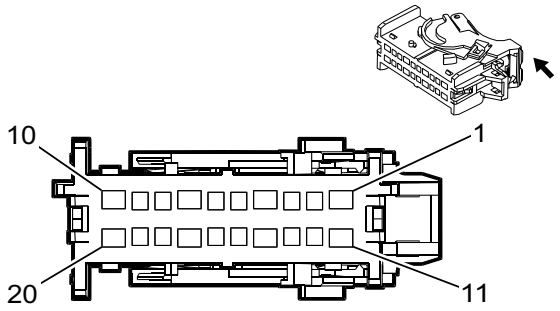
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-35 (VT)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

X51A Fuse Block - Instrument Panel X3 (LCV/LFX-N8D)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 11	—	—	—	Not Occupied	—	—
12	0.35	RD/GN	3140	Battery Positive Voltage	II	—
13	0.5	VT/GN	1739	Run/Crank Ignition 1 Voltage	II	—
14	0.35	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
15 - 20	—	—	—	Not Occupied	—	—

X51A Fuse Block - Instrument Panel X3 (LWN)



3240104

Connector Part Information

Harness Type: Body
OEM Connector: 15522322
Service Connector: 13597270
Description: 20-Way F 1.5, 2.8 Series (BK)

Terminal Part Information

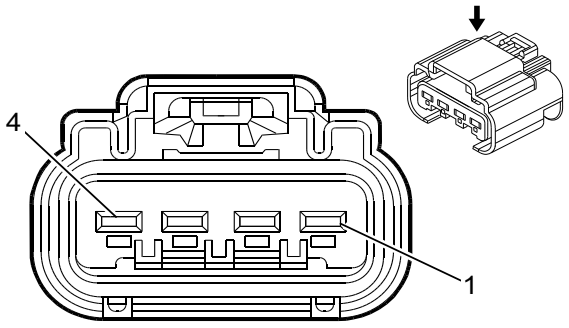
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19300649	J-35616-35 (VT)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

X51A Fuse Block - Instrument Panel X3 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 11	—	—	—	Not Occupied	—	—
12	0.35	RD/L-GN	3140	Battery Positive Voltage	II	—
13	0.5	VT/L-GN	1739	Run/Crank Ignition 1 Voltage	II	—
14	0.35	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
15 - 20	—	—	—	Not Occupied	—	—

Component Connector End Views

A7 Fuel Pump and Level Sensor Assembly (LCV/LGZ)



1962075

Connector Part Information

Harness Type: Chassis
OEM Connector: 13527865
Service Connector: 13587174
Description: 4-Way F 280 GT Series, Sealed (NA)

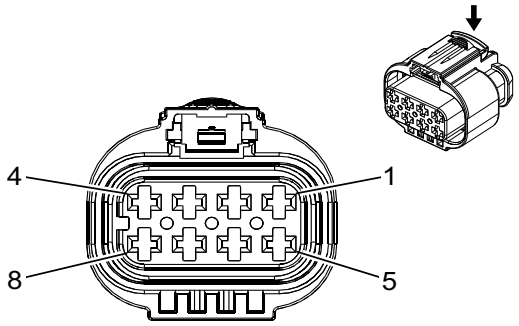
Terminal Part Information

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

A7 Fuel Pump and Level Sensor Assembly (LCV/LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	GY	120	Fuel Pump Control	I	—
2	2.5	BK/GN	1580	Fuel Pump Low Reference	I	—
3	0.5	BK/GN	6281	Fuel Level Sensor Low Reference	I	—
4	0.5	BU/VT	1589	Primary Fuel Level Sensor Signal	I	—

A7 Fuel Pump and Level Sensor Assembly (LWN)



3749581

Connector Part Information

Harness Type: Chassis
OEM Connector: 2109441-2
Service Connector: 19368670
Description: 8-Way F 2.8 Series, Sealed (BK)

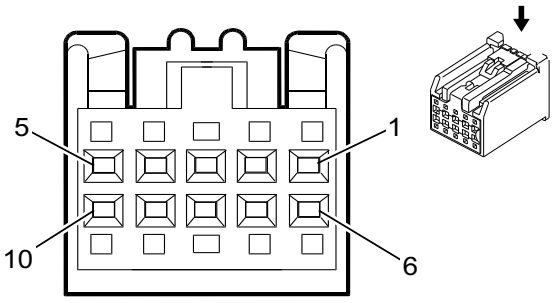
Terminal Part Information

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 (LWN)

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	BK	1950	Ground	I	—
5	0.5	BU/VT	1589	Primary Fuel Level Sensor Signal	I	—
6	0.5	BK/GN	6281	Fuel Level Sensor Low Reference	I	—
7 - 8	—	—	—	Not Occupied	—	—

A10 Inside Rearview Mirror



2180211

Connector Part Information

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

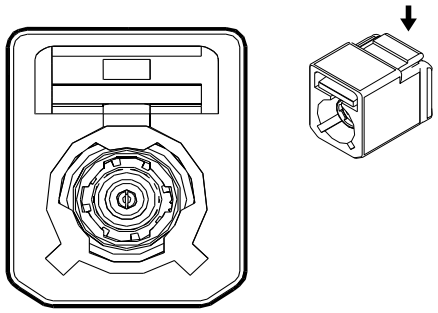
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/WH	24	Backup Lamp Control	I	—
2	0.5	VT/GN	1739	Run/Crank Ignition 1 Voltage	I	—
3	0.35	GN/WH	2514	Keypad Signal	I	—
4	0.35	GN/BK	2515	Keypad Control	I	—
5	0.5	BK	3150	Ground	I	—
6	0.35	YE/VT	2516	Keypad Green LED Control	I	—
7	0.35	BN/WH	2517	Keypad Red LED Control	I	—
8 - 10	—	—	—	Not Occupied	—	—

A11 Radio X4



3405621

Connector Part Information

Harness Type: Instrument Panel COAX
OEM Connector: 3FA1ENKRJ-C01-3
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way F Coax Type (CU)

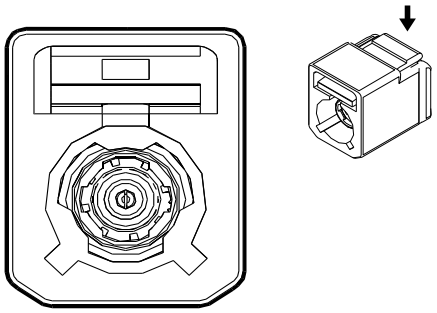
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

A11 Radio X4

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

A11 Radio X6



3405621

Connector Part Information

Harness Type: Instrument Panel COAX
OEM Connector: 3FA1ENKRJ-C01-3
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way F Coax Type (CU)

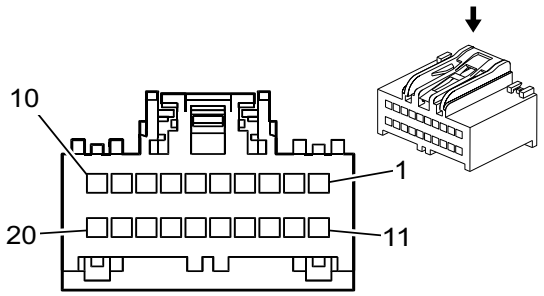
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

A11 Radio X6

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

A11 Radio X1 (IO5/IO6)



1715228

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 31410-0201
Service Connector: 13593932
Description: 20-Way F USCAR 64 Series (GY)

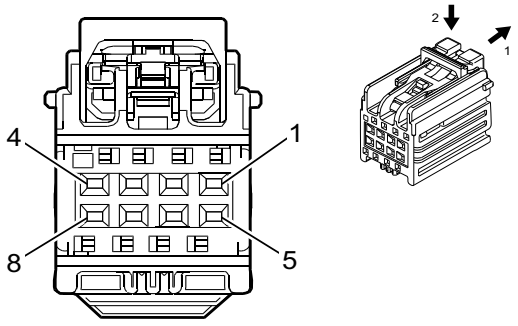
Terminal Part Information

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

A11 Radio X1 (IO5/IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 5	—	—	—	Not Occupied	—	—
6	0.5	Bare	5842	Auxiliary Audio Screen 2	I	—
7	0.35	BU	2060	Auxiliary Detection Signal	I	—
8	0.35	VT	5843	Auxiliary Audio Common Signal	I	—
9	0.35	GY	5839	Left Auxiliary Audio Signal 2	I	—
10	0.35	GN	5841	Right Auxiliary Audio Signal 2	I	—
11 - 12	—	—	—	Not Occupied	—	—
13	0.5	GN/BU	7532	Local Interconnect Network Serial Data Bus 10	I	—
14	0.5	GY/GN	1102	Low Speed GMLAN Serial Data #2	I	—
15 - 18	—	—	—	Not Occupied	—	—
19	0.35	BK/YE	659	Cellular Telephone Voice Low Reference	I	—
20	0.35	YE	658	Cellular Telephone Voice Signal	I	—

A11 Radio X2 (IO5/IO6)



4280711

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 7289-2895-40
Service Connector: 19355209
Description: 8-Way F YESC Kaizen Series (GY)

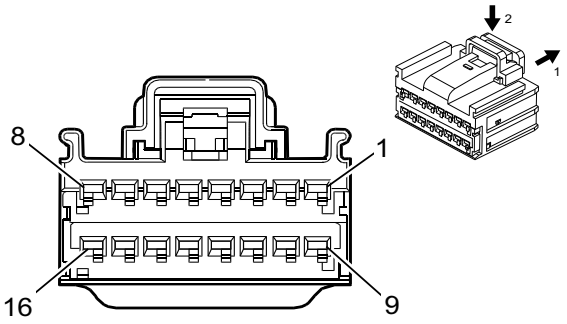
Terminal Part Information

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

A11 Radio X2 (IO5/IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/GN	3997	MOST Serial Data (-)	I	—
2	0.5	GY/VT	3998	MOST Serial Data (+)	I	—
3	0.5	WH/GN	3997	MOST Serial Data (-)	I	—
4	0.5	GY/VT	3998	MOST Serial Data (+)	I	—
5 - 6	—	—	—	Not Occupied	—	—
7	0.35	WH/VT	3999	MOST Control	I	—
8	—	—	—	Not Occupied	—	—

A11 Radio X3 (IO5/IO6)



4332214

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15512506
Service Connector: 13591061
Description: 16-Way F 1.5 OCS Series (BK)

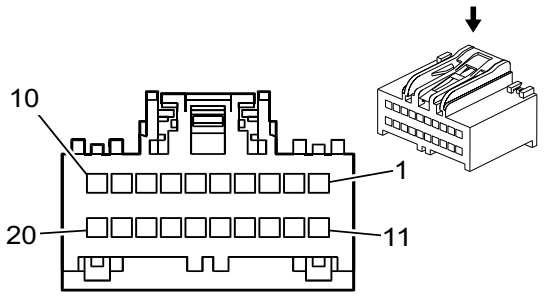
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575708	J-35616-2A (GY)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

A11 Radio X3 (IO5/IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BU	201	Left Front Speaker Control (+) 1	I	—
2	0.75	YE	200	Right Front Speaker Control (+) 1	I	—
3	0.75	GN	199	Left Rear Speaker Control (+)	I	—
4	0.75	WH	46	Right Rear Speaker Control (+)	I	—
5 - 7	—	—	—	Not Occupied	—	—
8	1	RD/VT	340	Battery Positive Voltage	I	—
9	0.75	BN/BU	118	Left Front Speaker Signal (-) 1	I	—
10	0.75	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
11	0.75	GN/BK	116	Left Rear Speaker Signal (-)	I	—
12	0.75	BU/BK	115	Right Rear Speaker Signal (-)	I	—
13 - 15	—	—	—	Not Occupied	—	—
16	1	BK/WH	2051	Signal Ground	I	—

A11 Radio X1 (IOB)



1715228

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 31410-0201
Service Connector: 13593932
Description: 20-Way F USCAR 64 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	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	19300631	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Avail-able	Not Avail-able	Not Avail-able

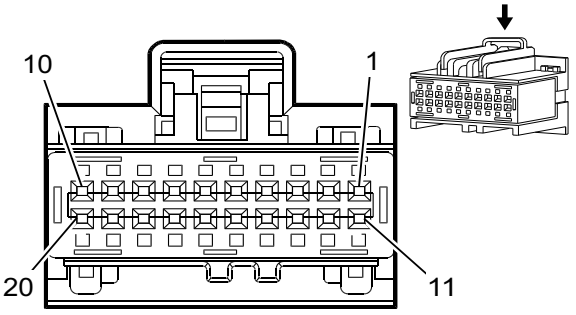
A11 Radio X1 (IOB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK/WH	1551	Signal Ground	I	—
2	0.35	BK/GN	2804	Radio Display Backlight Low Reference	II	—
3	0.35	GY/BN	3761	Infotainment Regulated Control	II	—
4	0.35	GY/GN	1102	Low Speed GMLAN Serial Data #2	II	—
5	—	—	—	Not Occupied	—	—
6	0.35 0.35	BK/GY BK/BN	5152 654	Voice Recognition Audio Low Reference Cellular Telephone Microphone Low Reference	II II	UE1 -UE1
7	0.35 0.35	GY/YE BU	5149 655	Voice Recognition Audio Signal Cellular Telephone Microphone Signal	II II	UE1 -UE1
8	0.35	VT/WH	2810	Radio Keypad Button Signal	II	—
9	0.35	BK/YE	659	Cellular Telephone Voice Low Reference	II	—
10	0.35	YE	658	Cellular Telephone Voice Signal	II	—
11	0.75	RD/VT	340	Battery Positive Voltage	I	—
12	—	—	—	Not Occupied	—	—
13	0.35	GN/WH	24	Backup Lamp Control	II	—
14	0.35	WH/BU	6973	Camera Signal 2	II	—
15	0.35	GY/YE	6972	Camera Signal 2 +	II	—
16	0.5	BK	5842	Auxiliary Audio Screen 2	II	—
17	0.35	BU	2060	Auxiliary Detection Signal	II	—

A11 Radio X1 (IOB) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
18	0.35	VT	5843	Auxiliary Audio Common Signal	II	—
19	0.35	GY	5839	Left Auxiliary Audio Signal 2	II	—
20	0.35	GN	5841	Right Auxiliary Audio Signal 2	II	—

A11 Radio X2 (IOB)



1664552

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 31410-0202
Service Connector: 13593933
Description: 20-Way F USCAR 64 Series (BN)

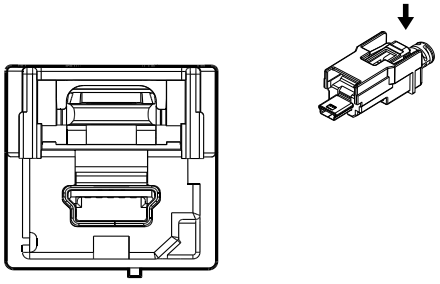
Terminal Part Information

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

A11 Radio X2 (IOB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	BN/WH	2809	Radio Keypad Power Signal	I	—
4	0.35	BN	2814	Radio Display Low Voltage Differential Signaling Lock Signal	I	—
5	0.35	GY/VT	2812	Radio Display Low Voltage Differential Signaling Error Signal	I	—
6	0.35	GY/BU	2803	Radio Display Touch Interrupt Request Signal	I	—
7	0.35	BN/GN	3364	Navigation Display Reset Signal	I	—
8	0.35	BU	4315	Radio Volume Up Signal	I	—
9	0.35	GY/BN	4314	Radio Volume Down Signal	I	—
10	0.75	BK/WH	1551	Signal Ground	I	—
11	0.75	WH	46	Right Rear Speaker Control (+)	I	—
12	0.75	BU/BK	115	Right Rear Speaker Signal (-)	I	—
13	0.75	GN	199	Left Rear Speaker Control (+)	I	—
14	0.75	GN/BK	116	Left Rear Speaker Signal (-)	I	—
15	0.75	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
16	0.75	YE	200	Right Front Speaker Control (+) 1	I	—
17	0.75	BN/BU	118	Left Front Speaker Signal (-) 1	I	—
18	0.75	BU	201	Left Front Speaker Control (+) 1	I	—
19	—	—	—	Not Occupied	—	—
20	0.75	RD/VT	340	Battery Positive Voltage	I	—

A11 Radio X3 (IOB)



2807759

Connector Part Information

Harness Type: Instrument Panel USB
OEM Connector: 111014-9412
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (BU)

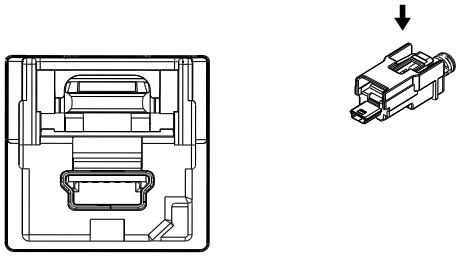
Terminal Part Information

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

A11 Radio X3 (IOB)

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

A11 Radio X7 (IOB)



2807425

Connector Part Information

Harness Type: Instrument Panel LVDS
OEM Connector: 13580212
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (BK)

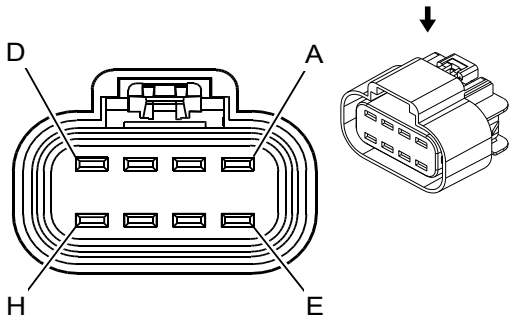
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

A11 Radio X7 (IOB)

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

A16 Transfer Case Motor



646372

Connector Part Information

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

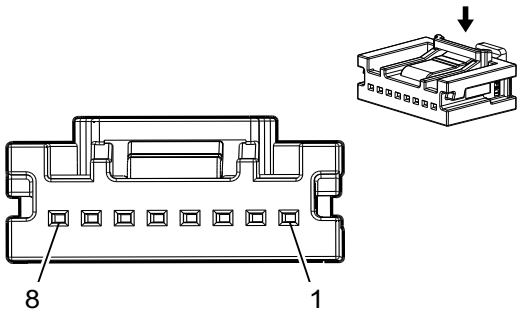
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

A16 Transfer Case Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.5	YE/GY	1552	Transfer Case Motor Clockwise Control	I	—
B	2.5	RD/GY	1342	Battery Positive Voltage	I	NQ6
C	2.5	YE/BN	1569	Transfer Case Lock Solenoid Control	I	NQ6
D	2.5	YE/VT	1553	Transfer Case Motor Counter Clockwise Control	I	—
E	0.5	BU/GY	7473	Incremental Encoder Impulse Signal	I	—
F	0.5	YE	7474	Incremental Encoder Direction Signal	I	—
G	0.5	WH/GN	7475	Incremental Encoder Sensor 8V Reference	I	—
H	0.5	VT	7476	Incremental Encoder Sensor Low Reference	I	—

A22 Radio Controls (IOB)



4017639

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 34791-5180
Service Connector: 19354223
Description: 8-Way F Mini 50 Series (BK)

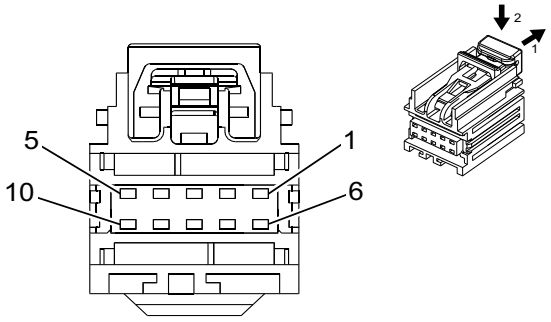
Terminal Part Information

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

A22 Radio Controls (IOB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY/BN	3761	Infotainment Regulated Control	I	—
2	0.35	GN/BK	2805	Radio Keypad Ground Return	I	—
3	0.35	VT/WH	2810	Radio Keypad Button Signal	I	—
4	0.35	BN/WH	2809	Radio Keypad Power Signal	I	—
5	0.35	BU/GY	2808	Radio Keypad Dimming Control	I	—
6	0.35	BU	4315	Radio Volume Up Signal	I	—
7	0.35	GY/BN	4314	Radio Volume Down Signal	I	—
8	0.35	BK/YE	2806	Radio Keypad Low Reference	I	—

A23D Door Latch Assembly - Driver



4622549

Connector Part Information

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

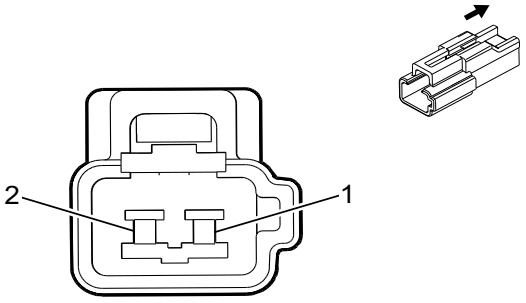
Terminal Part Information

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

A23D Door Latch Assembly - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	745	Left Front Door Ajar Switch Signal	I	—
2	—	—	—	Not Occupied	—	—
3	0.35	BK	3550	Ground	I	—
4	0.35	WH/VT	3270	Driver Door Lock Motor Status Signal	I	—
5	0.35	BU/VT	1124	Door Lock Key Switch Unlock Signal	I	—
6	—	—	—	Not Occupied	—	—
7	0.75	GY	5911	Door Lock Actuator Lock Control 2	I	—
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	—
9 - 10	—	—	—	Not Occupied	—	—

A23G Door Latch Assembly - Left Rear Lower



4141662

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 7282-6160
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 090 Series (NA)

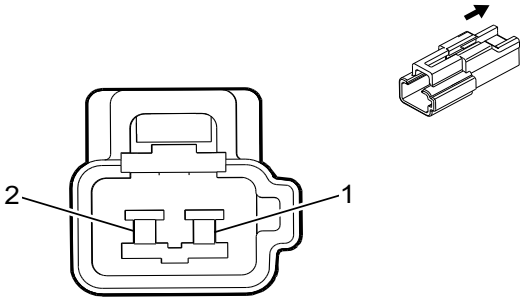
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-19 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23G Door Latch Assembly - Left Rear Lower

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	3350	Ground	I	—
2	0.35	GY	747	Left Rear Door Ajar Switch Signal	I	—

A23H Door Latch Assembly - Left Rear Upper



4141662

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 7282-6160
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 090 Series (NA)

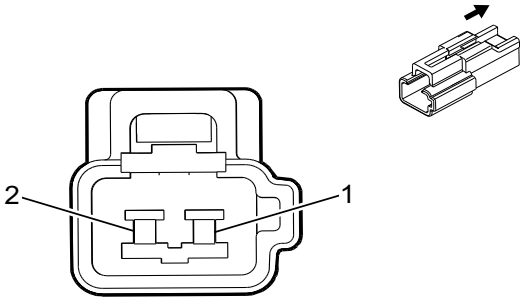
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-19 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23H Door Latch Assembly - Left Rear Upper

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	3350	Ground	I	—
2	0.35	GY	747	Left Rear Door Ajar Switch Signal	I	—

A23J Door Latch Assembly - Right Rear Lower



4141662

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 7282-6160
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 090 Series (NA)

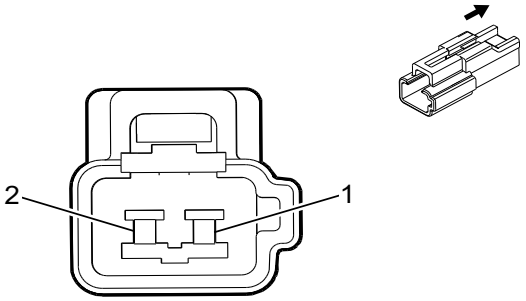
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-19 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23J Door Latch Assembly - Right Rear Lower

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	3450	Ground	I	—
2	0.35	GY	748	Right Rear Door Ajar Switch Signal	I	—

A23K Door Latch Assembly - Right Rear Upper



4141662

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 7282-6160
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 090 Series (NA)

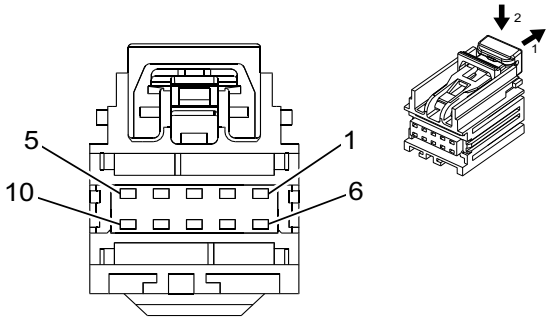
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-19 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required

A23K Door Latch Assembly - Right Rear Upper

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	3450	Ground	I	—
2	0.35	GY	748	Right Rear Door Ajar Switch Signal	I	—

A23LR Door Latch Assembly - Left Rear (Crew Cab)



4622549

Connector Part Information

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

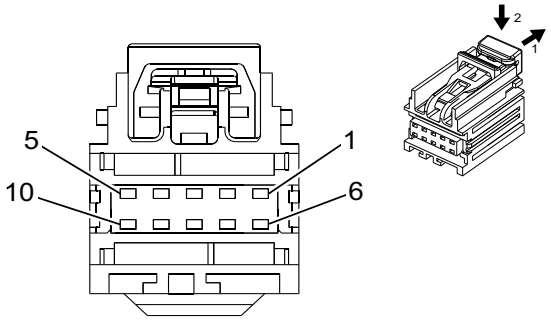
Terminal Part Information

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

A23LR Door Latch Assembly - Left Rear (Crew Cab)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	747	Left Rear Door Ajar Switch Signal	I	—
2	0.35	BN/WH	3269	Child Security Lock Motor Status Signal Left Rear	I	—
3	0.35	BK	3350	Ground	I	—
4 - 6	—	—	—	Not Occupied	—	—
7	0.75	GY	295	Door Lock Actuator Lock Control	I	—
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	—
9	0.75	WH/BU	3266	Child Security Lock Motor Lock Control	I	—
10	—	—	—	Not Occupied	—	—

A23P Door Latch Assembly - Passenger



4622549

Connector Part Information

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

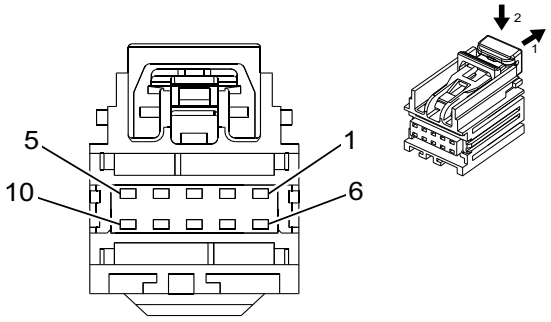
Terminal Part Information

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

A23P Door Latch Assembly - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	BK	3650	Ground	I	—
4	—	—	—	Not Occupied	—	—
5	0.35	GY	746	Right Front Door Ajar Switch Signal	I	—
6 - 7	—	—	—	Not Occupied	—	—
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	—
9	0.75	GY	295	Door Lock Actuator Lock Control	I	—
10	—	—	—	Not Occupied	—	—

A23RR Door Latch Assembly - Right Rear



4622549

Connector Part Information

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

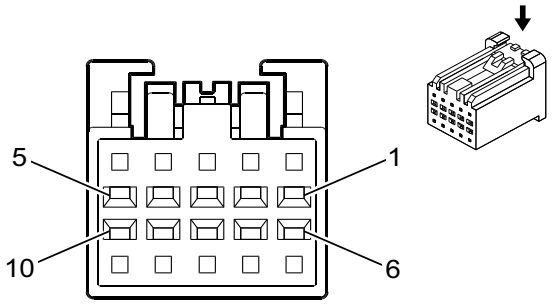
Terminal Part Information

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

A23RR Door Latch Assembly - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	BK	3450	Ground	I	—
4	0.35	GY/BK	3268	Child Security Lock Motor Status Signal Right Rear	I	—
5	0.35	GY	748	Right Rear Door Ajar Switch Signal	I	—
6	—	—	—	Not Occupied	—	—
7	0.75	WH/BU	3266	Child Security Lock Motor Lock Control	I	—
8	0.75	BN/YE	294	Door Lock Actuator Unlock Control	I	—
9	0.75	GY	295	Door Lock Actuator Lock Control	I	—
10	—	—	—	Not Occupied	—	—

A26 HVAC Controls



2840038

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13581139
Service Connector: 13581139
Description: 10-Way F 0.64 Kaizen Series (GY)

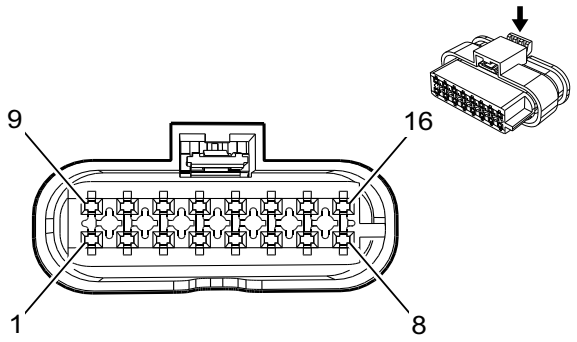
Terminal Part Information

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

A26 HVAC Controls

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/GY	2840	Battery Positive Voltage	I	—
2	—	—	—	Not Occupied	—	—
3	0.35	GN	5060	Low Speed GMLAN Serial Data	I	—
4 - 8	—	—	—	Not Occupied	—	—
9	0.35	GN/YE	7531	Local Interconnect Network Serial Data Bus 9	I	—
10	0.35	BK/WH	2051	Signal Ground	I	—

A39 Reductant Fluid Reservoir Assembly (LWN)



4259227

Connector Part Information

Harness Type: —
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 15-Way

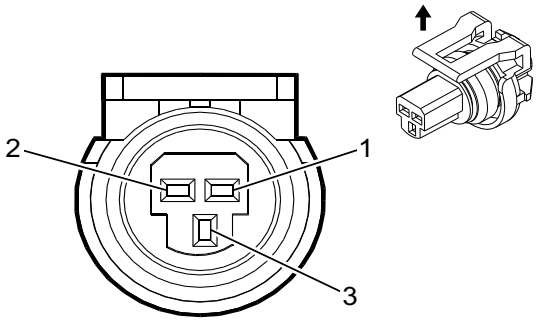
Terminal Part Information

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

A39 Reductant Fluid Reservoir Assembly (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/WH	9001	DEF Tank Temperature Sensor Signal	I	—
2	0.5	BK	9002	DEF Tank Temperature Sensor Low Reference	I	—
3	0.5	BK/WH	9003	DEF Pressure Sensor Low Reference	I	—
4	0.5	BK	9004	DEF Pressure Sensor Signal	I	—
5	.5	BK	9005	DEF Pressure Sensor 5V Reference	I	—
6	0.5	BK/WH	9006	DEF Tank Level Sensor Low Reference	I	—
7	1.0	GY/BK	9007	DEF Smart Pump Control Phase 3	I	—
8	1.0	YE/GY	9008	DEF Smart Pump Control Phase 2	I	—
9	1.0	GY/WH	9009	DEF Tank Heater Control	I	—
10	—	—	—	Not Occupied	—	—
11	1.0	BK/WH	9010	DEF Tank Heater Low Control	I	—
12	0.5	BK	9011	DEF Smart Pump Control Phase 1	I	—
13	0.5	BK	9012	Diesel Exhaust Fluid Sensor Voltage Reference	I	—
14	0.5	BK	9013	DEF Tank Level Sensor Signal	I	—
15	1.0	BK	9014	DEF Smart Pump Low Reference	I	—
16	1.0	BK	9015	DEF Smart Pump Control Phase 1	I	—

B1 A/C Refrigerant Pressure Sensor (LCV/(LGZ-ZR2)/LWN)



2909191

Connector Part Information

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

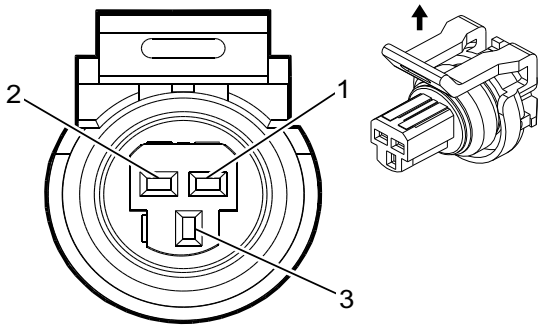
Terminal Part Information

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 (LCV/(LGZ-ZR2)/LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/BN	5514	A/C Refrigerant Pressure Sensor Low Reference	I	—
2	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	I	—
3	0.5	GN	380	A/C Refrigerant Pressure Sensor Signal	I	—

B1 A/C Refrigerant Pressure Sensor (LGZ+ZR2)



1519475

Connector Part Information

Harness Type: Engine
OEM Connector: 13602480
Service Connector: 88988301
Description: 3-Way F 150 GT Series, Sealed (BK)

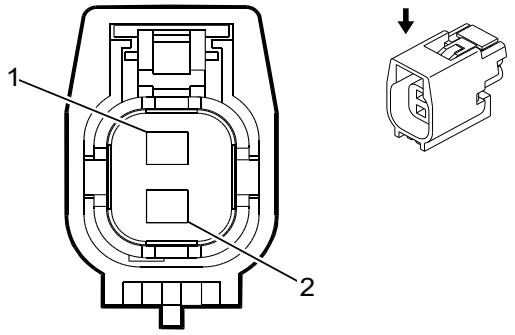
Terminal Part Information

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 (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/BN	5514	A/C Refrigerant Pressure Sensor Low Reference	I	—
2	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	I	—
3	0.5	GN	380	A/C Refrigerant Pressure Sensor Signal	I	—

B5LF Wheel Speed Sensor - Left Front



2152684

Connector Part Information

Harness Type: Chassis
OEM Connector: 7287-0973-30
Service Connector: 13586115
Description: 2-Way F 1.5 GT Series, Sealed (BK)

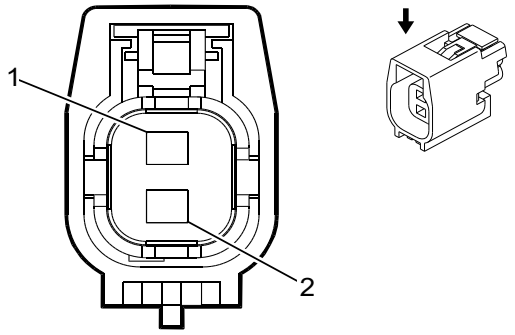
Terminal Part Information

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

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	—

B5LR Wheel Speed Sensor - Left Rear



2152684

Connector Part Information

Harness Type: Chassis
OEM Connector: 7287-0973-30
Service Connector: 13586115
Description: 2-Way F 1.5 GT Series, Sealed (BK)

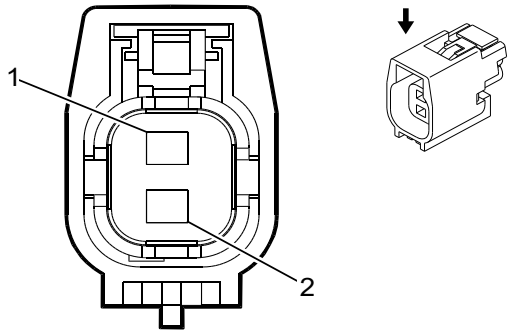
Terminal Part Information

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

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	—

B5RF Wheel Speed Sensor - Right Front



2152684

Connector Part Information

Harness Type: Chassis
OEM Connector: 7287-0973-30
Service Connector: 13586115
Description: 2-Way F 1.5 GT Series, Sealed (BK)

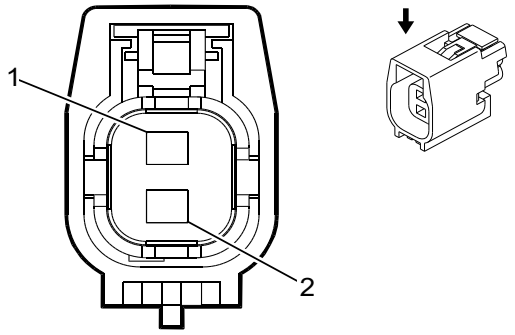
Terminal Part Information

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

B5RF Wheel Speed Sensor - Right Front

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	—

B5RR Wheel Speed Sensor - Right Rear



2152684

Connector Part Information

Harness Type: Chassis
OEM Connector: 7287-0973-30
Service Connector: 13586115
Description: 2-Way F 1.5 GT Series, Sealed (BK)

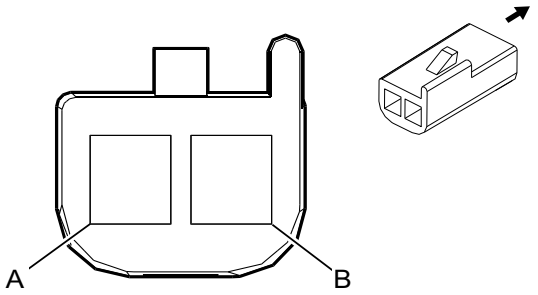
Terminal Part Information

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

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	—

B7B Air Temperature Sensor - Duct Lower



82383

Connector Part Information

Harness Type: HVAC
OEM Connector: 12047662
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 Metri-Pack Series (BK)

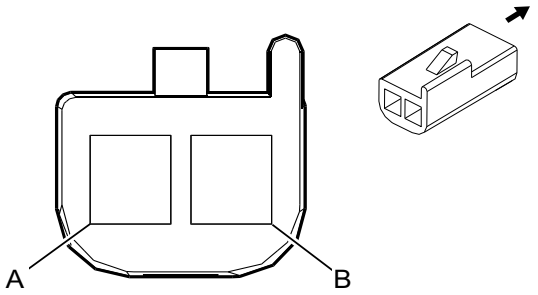
Terminal Part Information

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

B7B Air Temperature Sensor - Duct Lower

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	20	BN	518	Lower Left Air Temperature Sensor Signal	I	—
B	22	BK/YE	407	Sensor Low Reference	I	—

B7F Air Temperature Sensor - Duct Upper



82383

Connector Part Information

Harness Type: HVAC
OEM Connector: 12047662
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 Metri-Pack Series (BK)

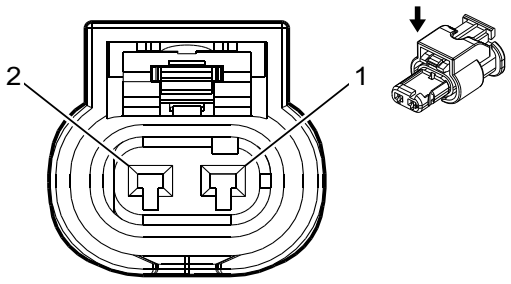
Terminal Part Information

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

B7F Air Temperature Sensor - Duct Upper

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	22	BN	516	Upper Left Air Temperature Sensor Signal	I	—
B	22	BK/YE	407	Sensor Low Reference	I	—

B9 Ambient Air Temperature Sensor



2698576

Connector Part Information

Harness Type: Front Body
OEM Connector: 13580179
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.2 MCP Series, Sealed (BK)

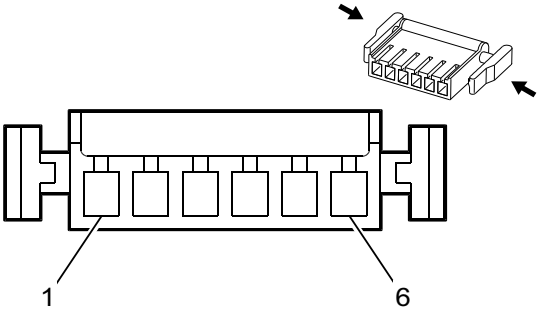
Terminal Part Information

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

B9 Ambient Air Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU/GY	636	Outside Ambient Air Temperature Sensor Signal	I	—
2	0.5	BK/BU	61	Outside Ambient Temperature Sensor Low Reference	I	—

B10B Ambient Light/Sunload Sensor



2173602

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13726957
Service Connector: 13576539
Description: 6-Way F 0.64 Micro-Quadlock Series (BK)

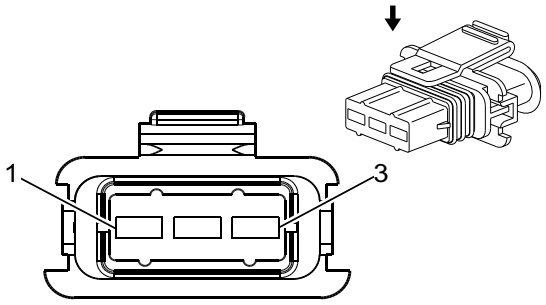
Terminal Part Information

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

B10B Ambient Light/Sunload Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	728	Security Indicator Control	I	—
2	—	—	—	Not Occupied	—	—
3	0.35	BU/WH	734	Inside Air Temperature Sensor Signal	I	—
4	0.35	YE/VT	1783	Twilight Sentinel Delay Signal	I	—
5	0.35	WH/BU	278	Ambient Light Sensor Signal	I	—
6	0.35	BK/YE	1791	Air Temperature Door Control Low Reference	I	—

B14A Transmission Output Shaft Speed Sensor (N8D)



2335307

Connector Part Information

Harness Type: Engine
OEM Connector: 90508602
Service Connector: 19330658
Description: 3-Way F 2.8 Junior Power Timer Series, Sealed (BK)

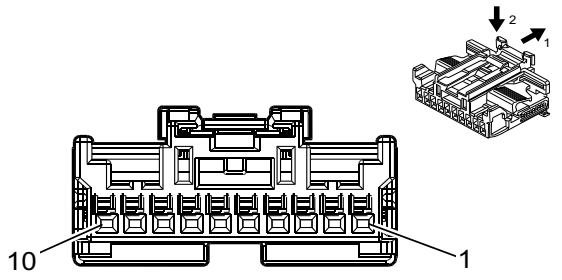
Terminal Part Information

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

B14A Transmission Output Shaft Speed Sensor (N8D)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/GN	822	Vehicle Speed Sensor Low Reference	I	—
2	0.5	VT/WH	821	Vehicle Speed Sensor Signal	I	—
3	0.5	BU/RD	1688	5V Reference	I	—

B15 Transmission Internal Mode Switch (M5T)



4051038

Connector Part Information

Harness Type: Transmission Control
OEM Connector: 2138504-1
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 0.64 Generation Y Series (BN)

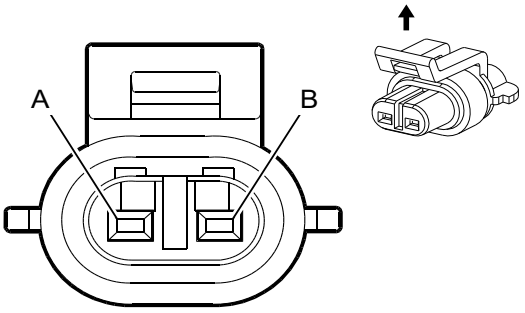
Terminal Part Information

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

B15 Transmission Internal Mode Switch (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	I	—
2	0.5	BK/GY	3927	IMS Mode Switch Low Reference	I	—
3	—	—	—	Not Occupied	—	—
4	0.5	YE/BU	4171	Transmission Position Sensor A 9V Reference	I	—
5	0.5	VT/WH	5981	PRNDL A Signal	I	—
6	0.5	WH/BK	5983	PRNDL C Signal	I	—
7	0.5	GY/YE	4169	PRNDL S Signal	I	—
8	0.5	GY/BN	5982	PRNDL B Signal	I	—
9	0.5	GY/WH	4168	PRNDL P Signal	I	—
10	0.5	YE/GN	4170	Transmission Position Sensor B 9V Reference	I	—

B16 Backup Lamp Switch



2179756

Connector Part Information

Harness Type: Engine
OEM Connector: 90346580
Service Connector: 13580106
Description: 2-Way F 150 Metri-Pack Series, Sealed (BK)

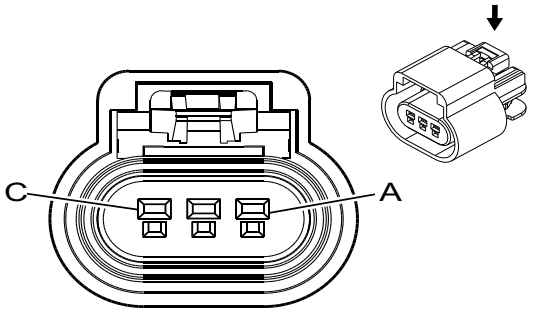
Terminal Part Information

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

B16 Backup Lamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GN/WH	5007	Reverse Switch Signal	I	—
B	0.5	BK/WH	451	Signal Ground	I	—

B18 Battery Current Sensor



646415

Connector Part Information

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

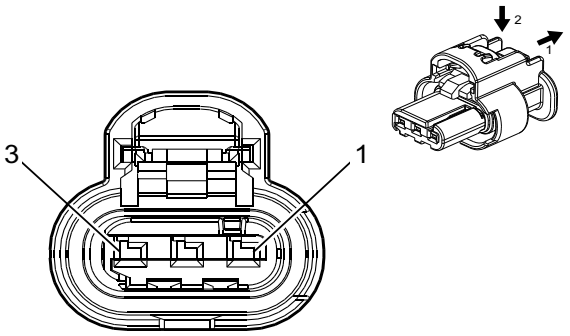
Terminal Part Information

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

B18 Battery Current Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BU/VT	5076	Current Sensor Control	I	—
B	0.5	BK/VT	5077	Current Sensor Low Reference	I	—
C	0.5	WH/YE	5075	Current Sensor Signal	I	—

B19B Brake Booster Vacuum Sensor



4581126

Connector Part Information

Harness Type: Chassis
OEM Connector: 1-2296695-1
Service Connector: 19366844
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

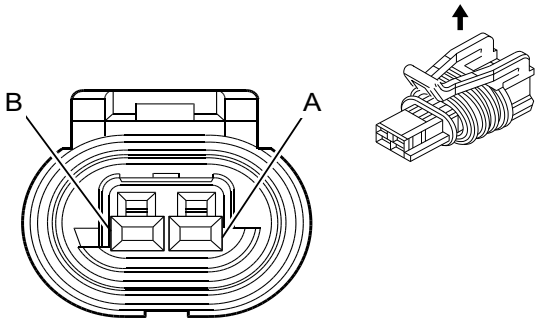
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

B19B Brake Booster Vacuum Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/VT	6030	Brake Vacuum Sensor Signal	I	—
2	0.5	BK/YE	6032	Brake Vacuum Sensor Low Reference	I	—
3	0.5	YE/RD	6031	Brake Vacuum Sensor 5V Reference	I	—

B20 Brake Fluid Level Switch



1538760

Connector Part Information

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

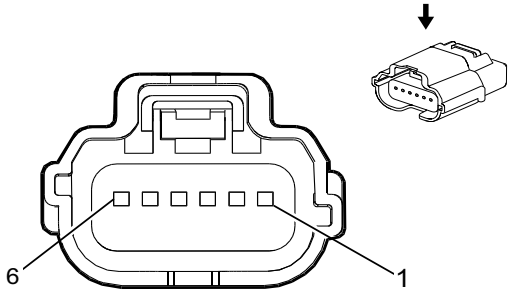
Terminal Part Information

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

B20 Brake Fluid Level Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK/WH	551	Signal Ground	I	—
B	0.5	GN/GY	333	Brake Fluid Level Sensor Signal	I	—

B22 Brake Pedal Position Sensor (MYB/M5T)



3270302

Connector Part Information

Harness Type: Body
OEM Connector: 31404-6810
Service Connector: 19304011
Description: 6-Way F 64 Series, Sealed (NA)

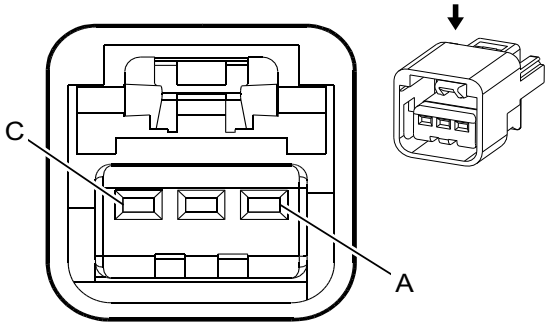
Terminal Part Information

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 (MYB/M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/BN	5360	Brake Apply Sensor Low Reference	I	—
2	0.5	WH	5359	Brake Apply Sensor Control	I	—
3	0.5	BU/YE	5361	Brake Apply Sensor Signal	I	—
4	0.5	WH/GN	5380	Brake Position Sensor Signal	I	—
5	0.5	BK/YE	5382	Brake Position Sensor Low Reference	I	—
6	0.5	WH/RD	5381	Brake Position Sensor 5V Reference	I	—

B22 Brake Pedal Position Sensor (N8D)



1243663

Connector Part Information

Harness Type: Body
OEM Connector: 15332132
Service Connector: 19368717
Description: 3-Way F 150 GT Series (BK)

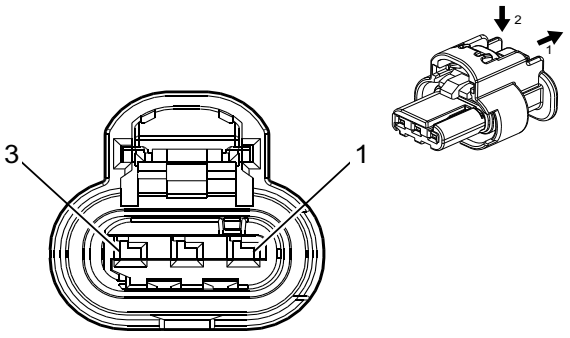
Terminal Part Information

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

B22 Brake Pedal Position Sensor (N8D)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH	5359	Brake Apply Sensor Control	I	—
B	0.5	BU/YE	5361	Brake Apply Sensor Signal	I	—
C	0.5	BK/BN	5360	Brake Apply Sensor Low Reference	I	—

B23 Camshaft Position Sensor



4581126

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296695-1
Service Connector: 19366844
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

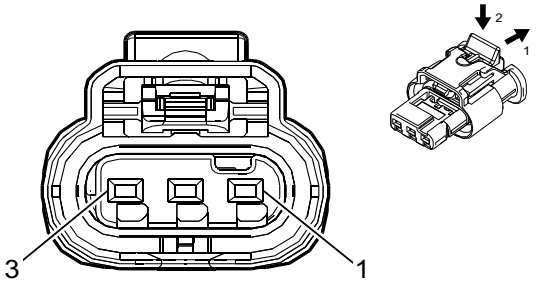
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

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

B23A Camshaft Position Sensor - Bank 1 Exhaust



4256077

Connector Part Information

Harness Type: Engine
OEM Connector: 4-2272004-1
Service Connector: 19352065
Description: 3-Way F 1.2 MCP Series, Sealed (BN)

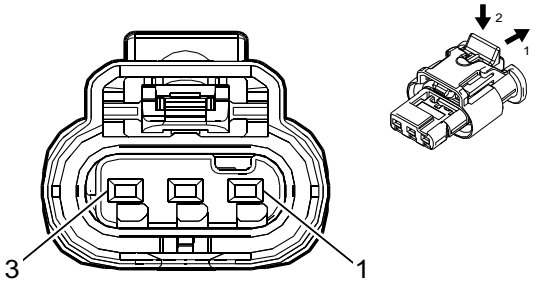
Terminal Part Information

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

B23A Camshaft Position Sensor - Bank 1 Exhaust

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/YE	5297	Camshaft Position Exhaust Sensor Control 1	I	—
2	0.5	BK/GY	5296	Camshaft Position Exhaust Sensor Low Reference 1	I	—
3	0.5	VT/BK	5273	Camshaft Position Exhaust Sensor 1	I	—

B23B Camshaft Position Sensor - Bank 1 Intake



4256077

Connector Part Information

Harness Type: Engine
OEM Connector: 4-2272004-1
Service Connector: 19352065
Description: 3-Way F 1.2 MCP Series, Sealed (BN)

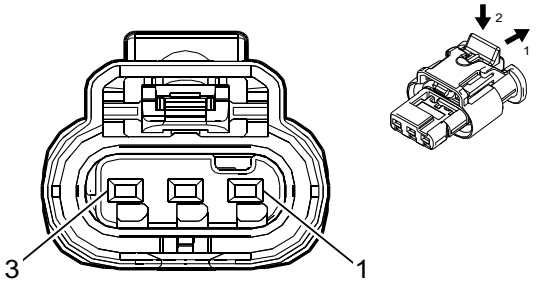
Terminal Part Information

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

B23B Camshaft Position Sensor - Bank 1 Intake

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

B23C Camshaft Position Sensor - Bank 2 Exhaust



4256077

Connector Part Information

Harness Type: Engine
OEM Connector: 4-2272004-1
Service Connector: 19352065
Description: 3-Way F 1.2 MCP Series, Sealed (BN)

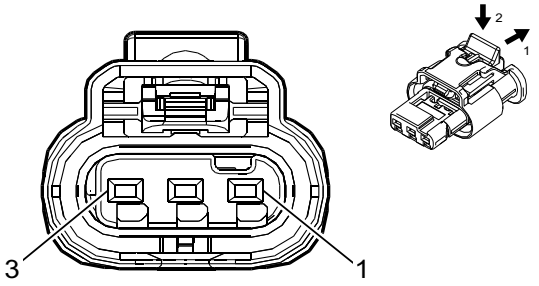
Terminal Part Information

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

B23C Camshaft Position Sensor - Bank 2 Exhaust

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/BN	5298	Camshaft Position Exhaust Sensor Control 2	I	—
2	0.5	BK/BN	5299	Camshaft Position Exhaust Sensor Low Reference 2	I	—
3	0.5	VT/BU	5274	Camshaft Position Exhaust Sensor 2	I	—

B23D Camshaft Position Sensor - Bank 2 Intake



4256077

Connector Part Information

Harness Type: Engine
OEM Connector: 4-2272004-1
Service Connector: 19352065
Description: 3-Way F 1.2 MCP Series, Sealed (BN)

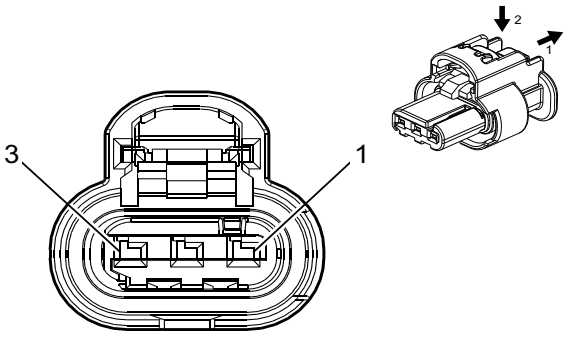
Terminal Part Information

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

B23D Camshaft Position Sensor - Bank 2 Intake

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BU	5302	Camshaft Position Intake Sensor Control 2	I	—
2	0.5	BK/VT	5303	Camshaft Position Intake Sensor Low Reference 2	I	—
3	0.5	YE	5276	Camshaft Position Intake Sensor 2	I	—

B23E Camshaft Position Sensor - Exhaust



4581126

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296695-1
Service Connector: 19366844
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

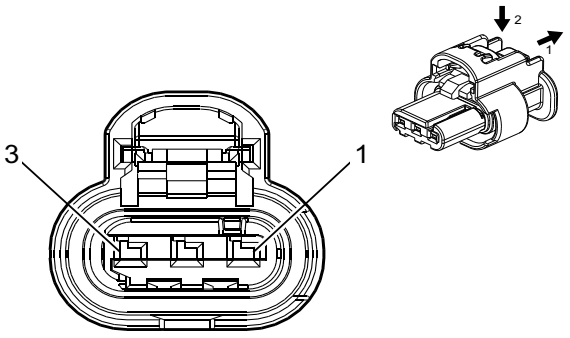
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

B23E Camshaft Position Sensor - Exhaust

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/YE	5297	Camshaft Position Exhaust Sensor Control 1	I	—
2	0.5	BK/GY	5296	Camshaft Position Exhaust Sensor Low Reference 1	I	—
3	0.5	VT/BK	5273	Camshaft Position Exhaust Sensor 1	I	—

B23F Camshaft Position Sensor - Intake



4581126

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296695-1
Service Connector: 19366844
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

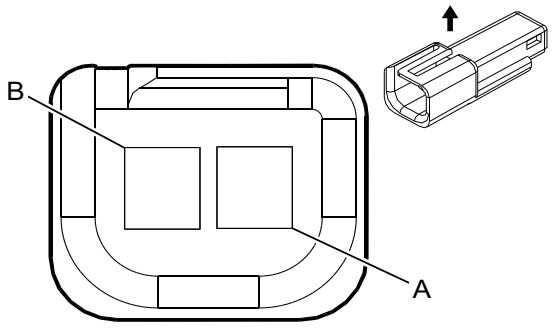
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

B23F Camshaft Position Sensor - Intake

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

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)

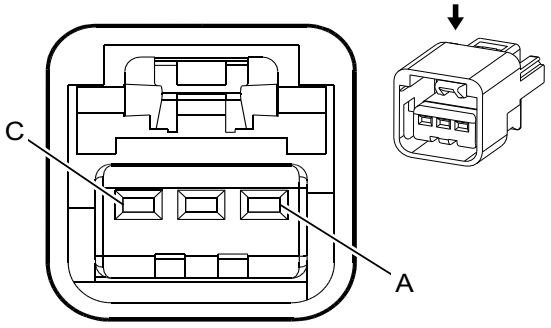
Terminal Part Information

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	0.35	BK/BN	654	Cellular Telephone Microphone Low Reference	I	—
B	0.35	BU	655	Cellular Telephone Microphone Signal	I	—

B25B Clutch Pedal Position Sensor



1243663

Connector Part Information

Harness Type: Body
OEM Connector: 15332132
Service Connector: 19368717
Description: 3-Way F 150 GT Series (BK)

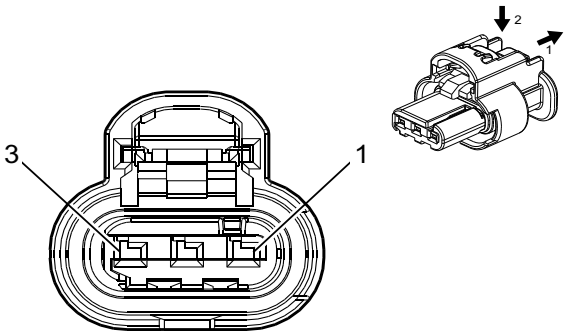
Terminal Part Information

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

B25B Clutch Pedal Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GY/RD	6109	Clutch Apply Sensor 5V Reference	I	—
B	0.5	YE	6111	Clutch Apply Sensor Signal	I	—
C	0.5	BK/GY	6110	Clutch Apply Sensor Low Reference	I	—

B26 Crankshaft Position Sensor (LCV)



4581126

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296695-1
Service Connector: 19366844
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

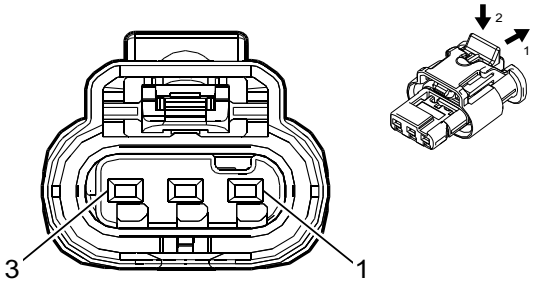
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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 (LCV)

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

B26 Crankshaft Position Sensor (LGZ)



4256077

Connector Part Information

Harness Type: Engine
OEM Connector: 4-2272004-1
Service Connector: 19352065
Description: 3-Way F 1.2 MCP Series, Sealed (BN)

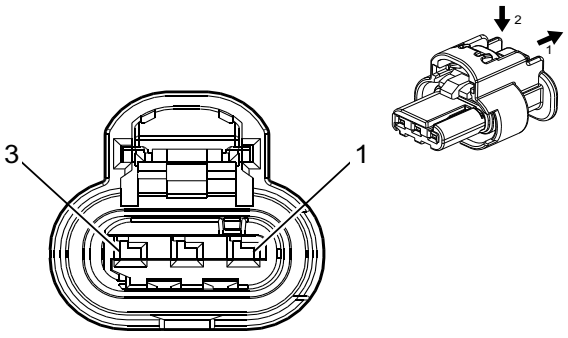
Terminal Part Information

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

B26 Crankshaft Position Sensor (LGZ)

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

B26 Crankshaft Position Sensor (LWN)



4581126

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296695-1
Service Connector: 19366844
Description: 3-Way F 1.2 MCON-CB Series, Sealed (BK)

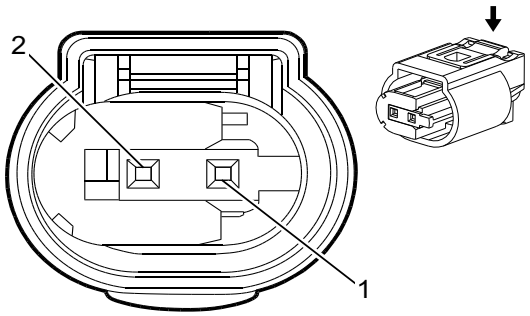
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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)

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

B34 Engine Coolant Temperature Sensor (LCV)



1869767

Connector Part Information

Harness Type: Engine
OEM Connector: 1-967644-1
Service Connector: 13576533
Description: 2-Way F 0.64 Micro-Quadlock Series, Sealed (BK)

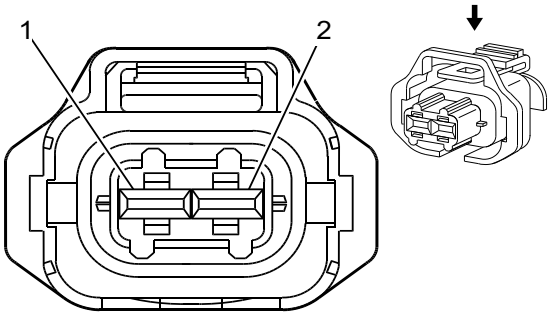
Terminal Part Information

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

B34 Engine Coolant Temperature Sensor (LCV)

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

B34 Engine Coolant Temperature Sensor (LWN)



1403270

Connector Part Information

Harness Type: Engine
OEM Connector: 13115612
Service Connector: 88953309
Description: 2-Way F 2.8 Junior Power Timer Series, Sealed (BK)

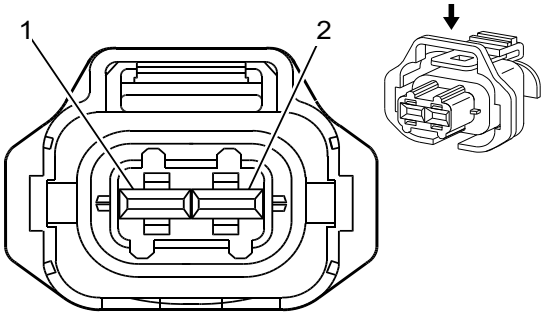
Terminal Part Information

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

B34 Engine Coolant Temperature Sensor (LWN)

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

B35 Engine Oil Level Switch (LCV)



784092

Connector Part Information

Harness Type: Engine
OEM Connector: 1928403874
Service Connector: 88988963
Description: 2-Way F 2.8 Kompakt Series, Sealed (BK)

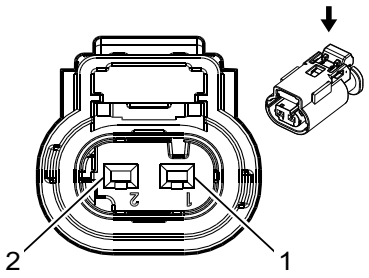
Terminal Part Information

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

B35 Engine Oil Level Switch (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/WH	1451	Signal Ground	I	—
2	0.5	BN/GN	1174	Oil Level Switch Signal	I	—

B35 Engine Oil Level Switch (LGZ)



2717066

Connector Part Information

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

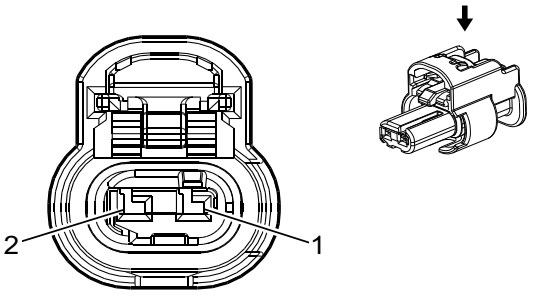
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	650	Ground	I	—
2	0.5	BN/GN	1174	Oil Level Switch Signal	I	—

B35 Engine Oil Level Switch (LWN)



4649903

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-1
Service Connector: 19366858
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

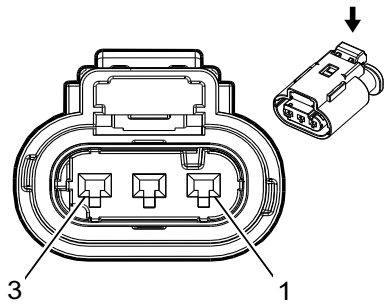
Terminal Part Information

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

B35 Engine Oil Level Switch (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/GN	1174	Oil Level Switch Signal	I	—
2	0.75	BK/WH	151	Signal Ground	I	—

B37B Engine Oil Pressure Sensor (LCV)



2717069

Connector Part Information

Harness Type: Engine
OEM Connector: 13503570
Service Connector: 19299690
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

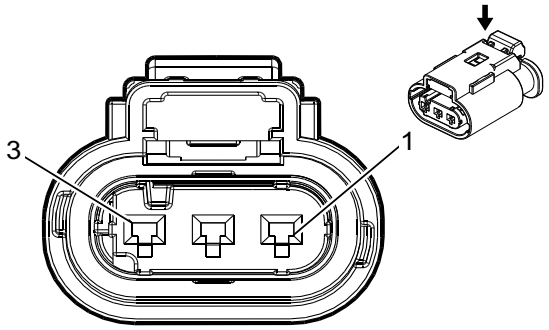
Terminal Part Information

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

B37B Engine Oil Pressure Sensor (LCV)

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	—

B37B Engine Oil Pressure Sensor (LCV)



3240107

Connector Part Information

Harness Type: Engine
OEM Connector: 10010344
Service Connector: 19301717
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

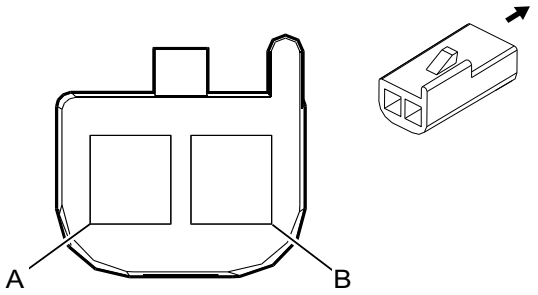
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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 (LCV)

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	—

B39 A/C Evaporator Temperature Sensor



82383

Connector Part Information

Harness Type: HVAC
OEM Connector: 12047662
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 Metri-Pack Series (BK)

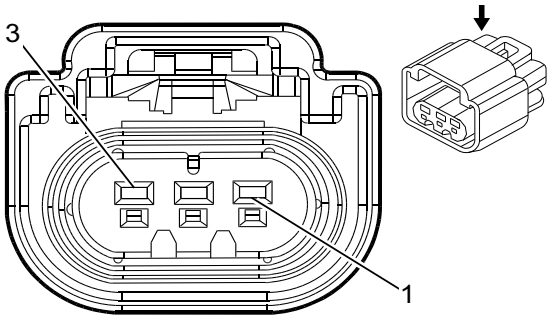
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B39 A/C Evaporator Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	22	GY	6137	EVAP Core Temperature Sensor Signal	I	—
B	22	BK/YE	407	Sensor Low Reference	II	—

B47 Fuel Pressure Sensor



1860942

Connector Part Information

Harness Type: Chassis
OEM Connector: 13511131
Service Connector: 19168035
Description: 3-Way F 150 GT Series, Sealed (BK)

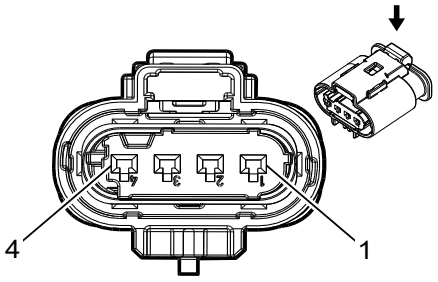
Terminal Part Information

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

B47 Fuel Pressure Sensor

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	—

B47B Fuel Rail Pressure Sensor



2717079

Connector Part Information

Harness Type: Engine
OEM Connector: 10010346
Service Connector: 13587299
Description: 4-Way F 1.2 Multilock Series, Sealed (BK)

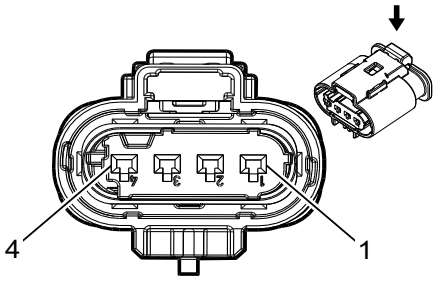
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

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/GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—
4	0.5	BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	—

B52A Heated Oxygen Sensor 1



2717079

Connector Part Information

Harness Type: Engine
OEM Connector: 10010346
Service Connector: 13587299
Description: 4-Way F 1.2 Multilock Series, Sealed (BK)

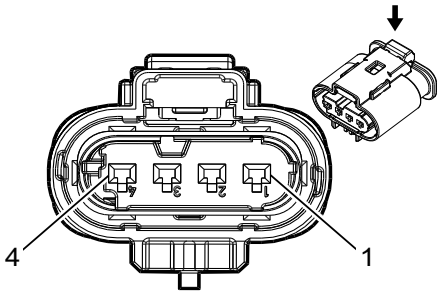
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

B52A Heated Oxygen Sensor 1

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

B52B Heated Oxygen Sensor 2



2717096

Connector Part Information

Harness Type: Engine
OEM Connector: 10010347
Service Connector: 13587298
Description: 4-Way F 1.2 Multilock Series, Sealed (L-GY)

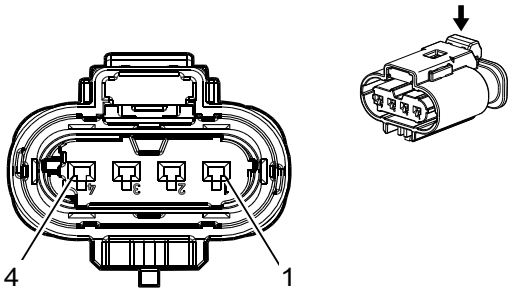
Terminal Part Information

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

B52B Heated Oxygen Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	—
2	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply 5	I	—
3	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	—
4	0.5	VT/BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	—

B52C Heated Oxygen Sensor - Bank 1 Sensor 1



4036370

Connector Part Information

Harness Type: Engine
OEM Connector: 10021266
Service Connector: 19330920
Description: 4-Way F 1.2 Multilock Series, Sealed (GY)

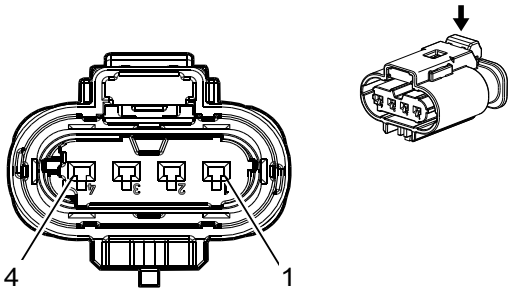
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

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

B52D Heated Oxygen Sensor - Bank 1 Sensor 2



4036370

Connector Part Information

Harness Type: Engine
OEM Connector: 10021266
Service Connector: 19330920
Description: 4-Way F 1.2 Multilock Series, Sealed (GY)

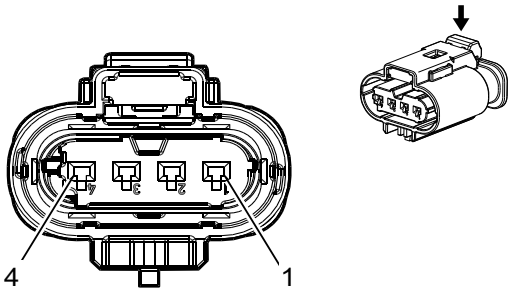
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	—
2	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply 5	I	—
3	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	—
4	0.5	VT/BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	—

B52E Heated Oxygen Sensor - Bank 2 Sensor 1



4036370

Connector Part Information

Harness Type: Engine
OEM Connector: 10021266
Service Connector: 19330920
Description: 4-Way F 1.2 Multilock Series, Sealed (GY)

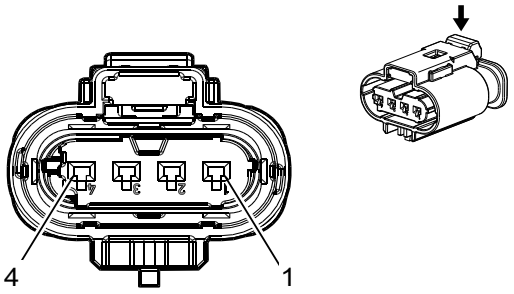
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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	GN/YE	3212	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 1	I	—
2	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—
3	0.5	YE/WH	3211	Heated Oxygen Sensor Low Signal Bank 2 Sensor 1	I	—
4	0.5	VT/WH	3210	Heated Oxygen Sensor High Signal Bank 2 Sensor 1	I	—

B52F Heated Oxygen Sensor - Bank 2 Sensor 2



4036370

Connector Part Information

Harness Type: Engine
OEM Connector: 10021266
Service Connector: 19330920
Description: 4-Way F 1.2 Multilock Series, Sealed (GY)

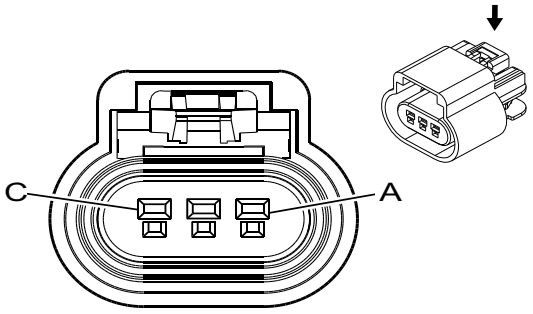
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

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/BU	5294	Powertrain Main Relay Fused Supply 5	I	—
3	0.5	YE/BU	3221	Heated Oxygen Sensor Low Signal Bank 2 Sensor 2	I	—
4	0.5	VT/GN	3220	Heated Oxygen Sensor High Signal Bank 2 Sensor 2	I	—

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)

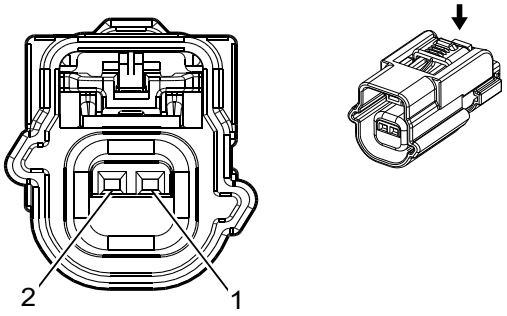
Terminal Part Information

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	—	—	—	Not Occupied	—	—
B	0.5	BN/GN	109	Hood Ajar Switch Signal	I	—
C	0.75	BK	1250	Ground	I	—

B59L Front Impact Sensor - Left



3931604

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 54390241
Service Connector: 19329742
Description: 2-Way F 0.64 Series, Sealed

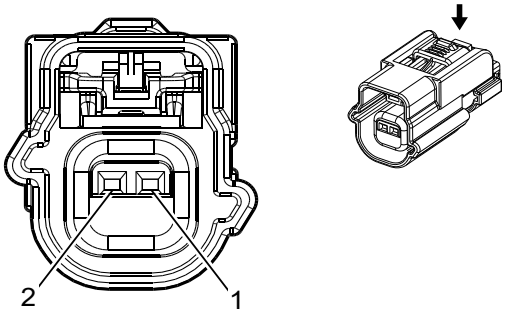
Terminal Part Information

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

B59L Front Impact Sensor - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/YE	354	Left Front Discriminating Sensor Signal	I	—
2	0.5	BK/OG	5045	Left Front Discriminating Sensor Low Reference	I	—

B59R Front Impact Sensor - Right



3931604

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 54390241
Service Connector: 19329742
Description: 2-Way F 0.64 Series, Sealed

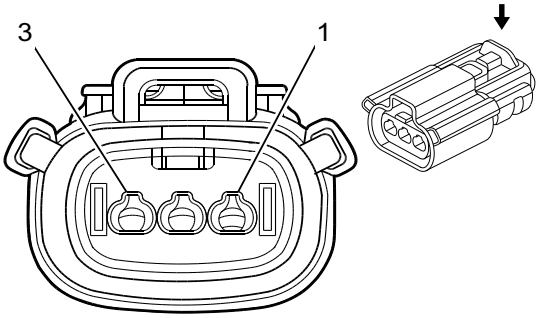
Terminal Part Information

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

B59R Front Impact Sensor - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/GN	1409	Right Front Discriminating Sensor Signal	I	—
2	0.5	BK/OG	5600	Right Front Discriminating Sensor Low Reference	I	—

B61P Seat Belt Tension Sensor - Passenger



1862095

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 33471-0306
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 1.5 Series, Sealed (BK)

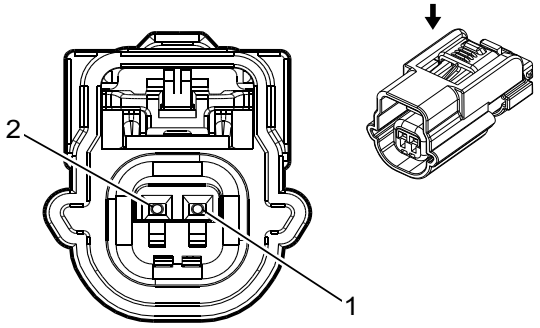
Terminal Part Information

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

B61P Seat Belt Tension Sensor - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	.35	VT/OG	5611	Passenger Seat Belt Tension Sensor Signal	I	—
2	.35	BK/WH	2251	Signal Ground	I	—
3	.35	L-BU/RD	5612	Passenger Seat Belt Tension Sensor 5V Reference	I	—

B63LF Side Impact Sensor - Left Front



3556418

Connector Part Information

Harness Type: Driver Door
OEM Connector: 54390240
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 Series, Sealed (L-GY)

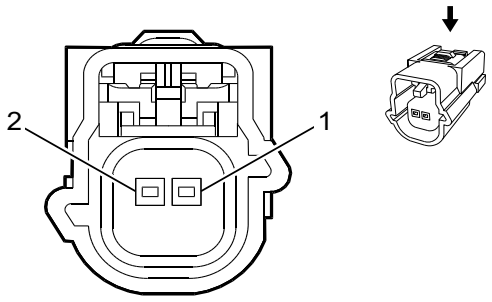
Terminal Part Information

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

B63LF Side Impact Sensor - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	OG/GN	2132	Left Front Side Impact Sensing Module Signal	I	—
2	0.35	BK/OG	6628	Left Front Side Impact Sensing Module Low Reference	I	—

B63LR Side Impact Sensor - Left Rear



2179777

Connector Part Information

Harness Type: Body
OEM Connector: 54390242
Service Connector: 13585852
Description: 2-Way F 0.64 Series, Sealed (D-GY)

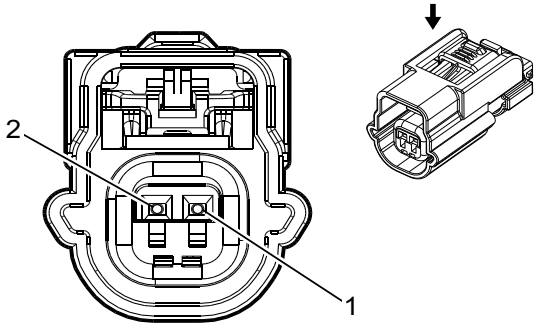
Terminal Part Information

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	0.35	OG/BU	6620	Left Middle Side Impact Sensing Module Signal	I	—
2	0.35	BK/OG	6621	Left Middle Side Impact Sensing Module Low Reference	I	—

B63RF Side Impact Sensor - Right Front



3556418

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 54390240
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 0.64 Series, Sealed (L-GY)

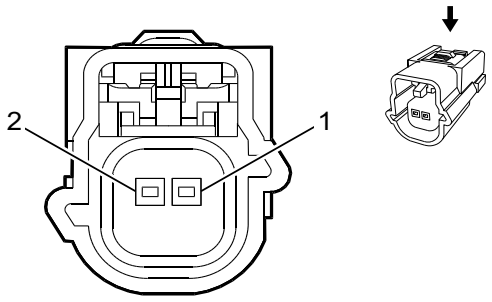
Terminal Part Information

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

B63RF Side Impact Sensor - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN/OG	2134	Right Front Side Impact Sensing Module Signal	I	—
2	0.35	BK/OG	6629	Right Front Side Impact Sensing Module Low Reference	I	—

B63RR Side Impact Sensor - Right Rear



2179777

Connector Part Information

Harness Type: Body
OEM Connector: 54390242
Service Connector: 13585852
Description: 2-Way F 0.64 Series, Sealed (D-GY)

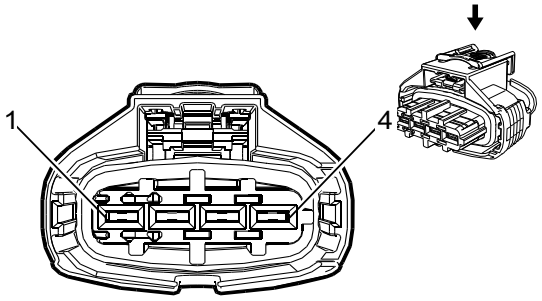
Terminal Part Information

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	0.35	OG/VT	6624	Right Middle Side Impact Sensing Module Signal	I	—
2	0.35	BK/OG	6625	Right Middle Side Impact Sensing Module Low Reference	I	—

B65 Intake Manifold Pressure and Air Temperature Sensor



2487930

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405525
Service Connector: 13584423
Description: 4-Way F 2.8 Series, Sealed (BK)

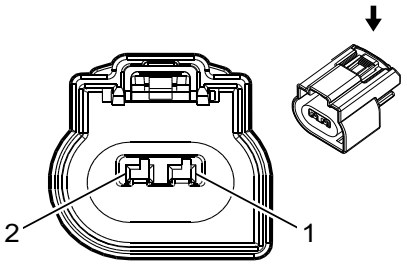
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-35 (VT)	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	0.5	BK/GN	469	Manifold Absolute Pressure Sensor Low Reference	I	—
2	0.5	BN	7348	Induction Air Temperature Sensor 2 Signal	I	—
3	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
4	0.5	GN/WH	432	Manifold Absolute Pressure Sensor Signal	I	—

B68A Knock Sensor 1



2717073

Connector Part Information

Harness Type: Engine
OEM Connector: 34752-0204
Service Connector: 19301207
Description: 2-Way F 150 MX Series, Sealed (BK)

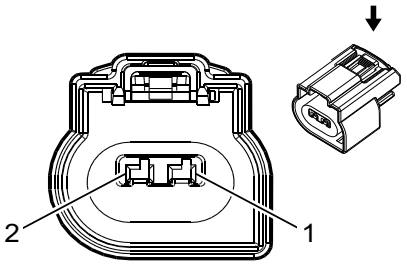
Terminal Part Information

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

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

B68B Knock Sensor 2



2717073

Connector Part Information

Harness Type: Engine
OEM Connector: 34752-0204
Service Connector: 19301207
Description: 2-Way F 150 MX Series, Sealed (BK)

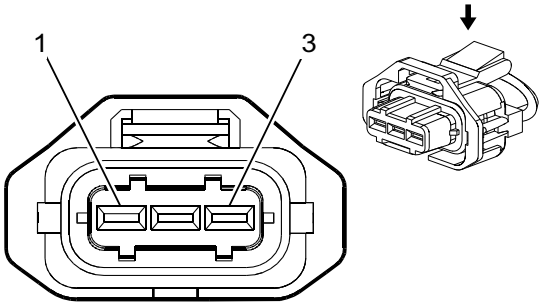
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/GY	1876	Knock Sensor Signal 2	I	—
2	0.5	BK/GY	2303	Knock Sensor Low Reference 2	I	—

B74 Manifold Absolute Pressure Sensor (LCV)



1331443

Connector Part Information

Harness Type: Engine
OEM Connector: 13145408
Service Connector: 13585850
Description: 3-Way F 2.8 Series, Sealed (BK)

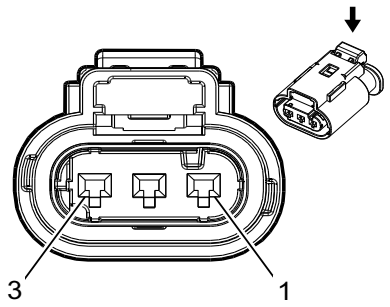
Terminal Part Information

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

B74 Manifold Absolute Pressure Sensor (LCV)

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

B74 Manifold Absolute Pressure Sensor (LGZ)



2717069

Connector Part Information

Harness Type: Engine
OEM Connector: 13503570
Service Connector: 19299690
Description: 3-Way F 1.2 Multilock Series, Sealed (BK)

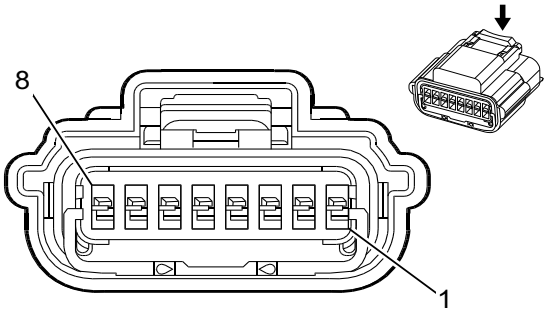
Terminal Part Information

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

B74 Manifold Absolute Pressure Sensor (LGZ)

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

B75C Multifunction Intake Air Sensor



2581486

Connector Part Information

Harness Type: Engine
OEM Connector: ATSSPB-C08C-1AK
Service Connector: 13583440
Description: 8-Way F 0.64 Series, Sealed (BK)

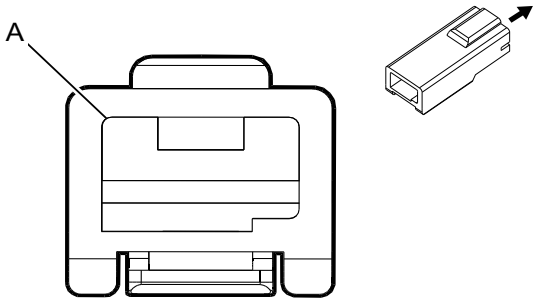
Terminal Part Information

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	0.5	WH/BU	6289	Induction Air Temperature Sensor Signal	I	—
2	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	—
3	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	LCV
	0.5	BK/VT	2760	Intake Air Temperature Sensor Low Reference	I	LGZ/LWN
4	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	—
5	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply 5	I	—
6	0.5	GN/WH	492	Mass Air Flow Sensor Signal	I	—
7	0.5	BK/WH	1451	Signal Ground	I	LCV
	0.5	BK/WH	151	Signal Ground	I	LGZ
	0.75	BK/WH	151	Signal Ground	I	LWN
8	0.5	BN/GY	4008	Humidity Sensor Signal	I	—

B80 Park Brake Switch



3240142

Connector Part Information

Harness Type: Body
OEM Connector: 13705266
Service Connector: 19368880
Description: 1-Way F 630 Metri-Pack Series (BK)

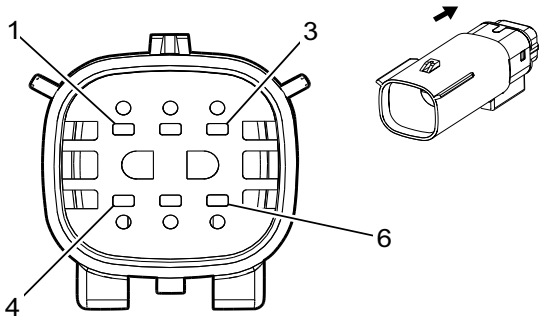
Terminal Part Information

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

B80 Park Brake Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BU/VT	1134	Park Brake Switch Signal	I	—

B87 Rearview Camera



1986159

Connector Part Information

Harness Type: License Lamp
OEM Connector: 33482-3601
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M 150 MX Series, Sealed (BK)

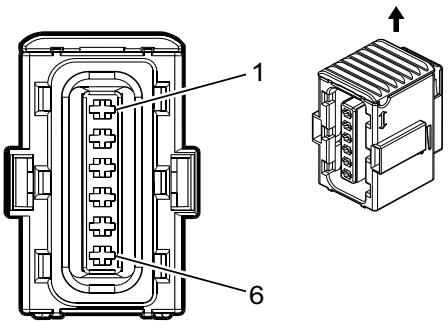
Terminal Part Information

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

B87 Rearview Camera

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/WH	24	Backup Lamp Control	I	—
2	0.5	GY/YE	6972	Camera Signal 2 +	I	—
3	0.5	VT/GN	1739	Run/Crank Ignition 1 Voltage	I	—
4	0.5	GN	6974	Camera Low Reference	I	—
5	0.5	BK/WH	751	Signal Ground	I	—
6	0.5	WH/BU	6973	Camera Signal 2	I	—

B107 Accelerator Pedal Position Sensor



2173601

Connector Part Information

Harness Type: Body
OEM Connector: 9115133
Service Connector: 13580116
Description: 6-Way F 1.2 Micro-Timer II Series, Sealed (BK)

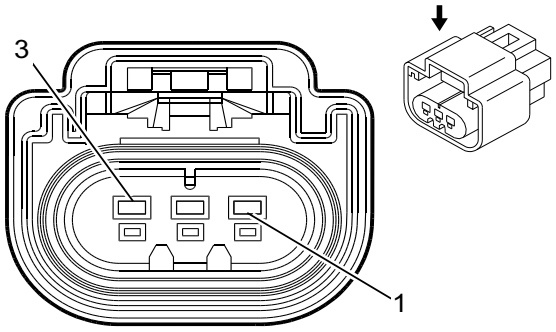
Terminal Part Information

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

B107 Accelerator Pedal Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	I	—
2	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	I	—
3	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	I	—
4	0.5	BK/BU	1271	Accelerator Pedal Position Low Reference 1	I	—
5	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	I	—
6	0.5	GN/WH	1162	Accelerator Pedal Position Signal 2	I	—

B115 Vehicle Speed Sensor (NQ6/NQ7)



1962078

Connector Part Information

Harness Type: Engine
OEM Connector: 13511996
Service Connector: 13580873
Description: 3-Way F 150 GT Series, Sealed (GY)

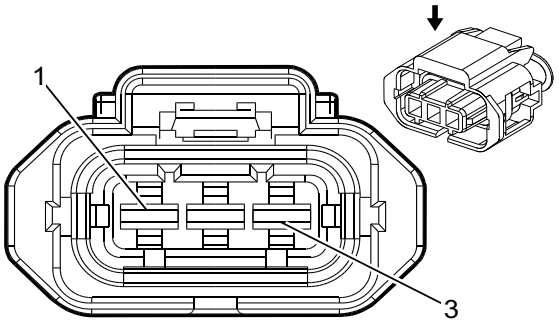
Terminal Part Information

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

B115 Vehicle Speed Sensor (NQ6/NQ7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU/RD	1688	5V Reference	I	—
2	0.5	VT/WH	821	Vehicle Speed Sensor Signal	I	—
3	0.5	BK/L-GN	822	Vehicle Speed Sensor Low Reference	I	—

B116 Water in Fuel Sensor



1914850

Connector Part Information

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

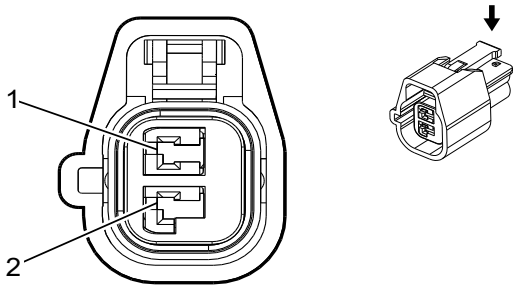
Terminal Part Information

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

B116 Water in Fuel Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/GY	139	Run/Crank Ignition 1 Voltage	I	—
2	0.75	BK	1950	Ground	I	—
3	0.5	BU/YE	6861	Water In Fuel Sensor Signal	I	—

B118 Windshield Washer Fluid Level Sensor



2904462

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 7283-6434-40
Service Connector: 19301729
Description: 2-Way F 1.5 Series (L-GY)

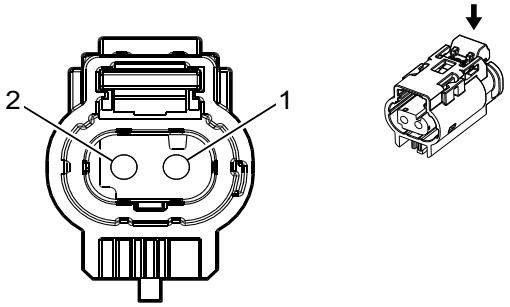
Terminal Part Information

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

B118 Windshield Washer Fluid Level Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT	185	Low Washer Fluid Indicator Control	I	—
2	0.5	BK	1150	Ground	I	—

B130A Exhaust Gas Recirculation Temperature Sensor 1



3747581

Connector Part Information

Harness Type: Engine
OEM Connector: 10094237
Service Connector: 19332628
Description: 2-Way F 1.2 Multilock Series, Sealed (GY)

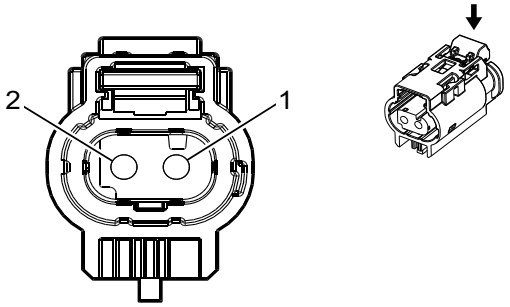
Terminal Part Information

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

B130A Exhaust Gas Recirculation Temperature Sensor 1

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/GN	3236	Exhaust Gas Recirculation Temperature Sensor 2 Signal	I	—

B130B Exhaust Gas Recirculation Temperature Sensor 2



3747581

Connector Part Information

Harness Type: Engine
OEM Connector: 10094234
Service Connector: 19332719
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

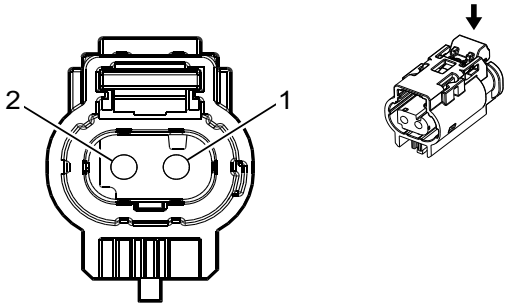
Terminal Part Information

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

B130B Exhaust Gas Recirculation Temperature Sensor 2

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

B131A Exhaust Temperature Sensor 1



3747581

Connector Part Information

Harness Type: Engine
OEM Connector: 10094234
Service Connector: 19332719
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

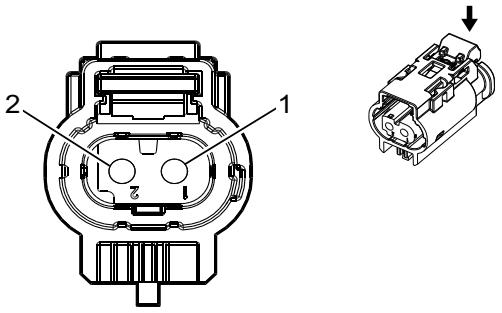
Terminal Part Information

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	BU/WH	5277	Exhaust Gas Temperature Sensor 1	I	—

B131B Exhaust Temperature Sensor 2



3747580

Connector Part Information

Harness Type: Chassis
OEM Connector: 10094236
Service Connector: 19332627
Description: 2-Way F 1.2 Multilock Series, Sealed (GY)

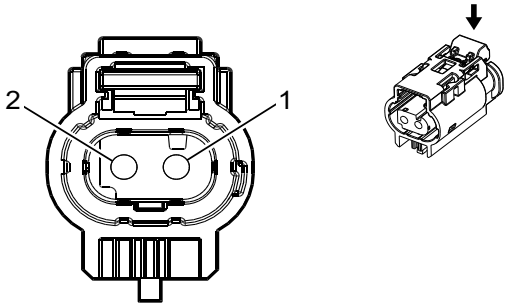
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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/BU	6783	Exhaust Gas Temperature Sensor 2 Low Reference	I	—
2	0.5	BU/GN	5377	Exhaust Gas Temperature Sensor 2	I	—

B131C Exhaust Temperature Sensor 3



3747581

Connector Part Information

Harness Type: Chassis
OEM Connector: 10094237
Service Connector: 19332628
Description: 2-Way F 1.2 Multilock Series, Sealed (GY)

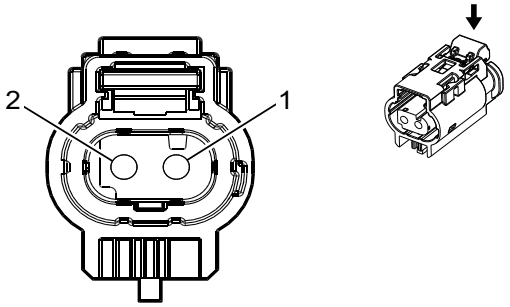
Terminal Part Information

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/GN	3657	Exhaust Gas Temperature Sensor 3 Low Reference	I	—
2	0.5	GY/GN	5378	Exhaust Gas Temperature Sensor 3	I	—

B131D Exhaust Temperature Sensor 4



3747581

Connector Part Information

Harness Type: Chassis
OEM Connector: 10094234
Service Connector: 19332719
Description: 2-Way F 1.2 Multilock Series, Sealed (BK)

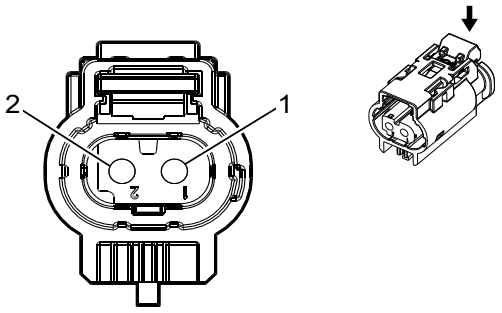
Terminal Part Information

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	—

B131E Exhaust Temperature Sensor 5



3747580

Connector Part Information

Harness Type: Chassis
OEM Connector: 10094236
Service Connector: 19332627
Description: 2-Way F 1.2 Multilock Series, Sealed (GY)

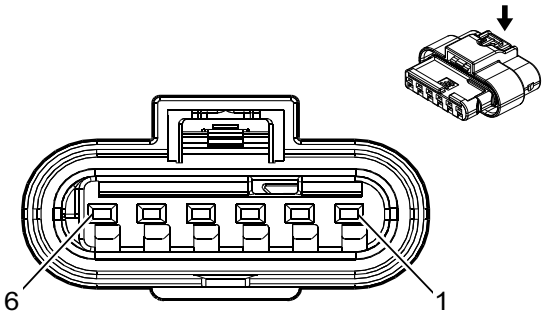
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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	BU/GY	3660	Exhaust Gas Temperature Sensor 5 Signal	I	—

B136 Exhaust Particulate Matter Sensor



3747582

Connector Part Information

Harness Type: Chassis
OEM Connector: 34900-6121
Service Connector: 19354530
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

B136 Exhaust Particulate Matter Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1950	Ground	I	—
2	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
3	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
4	0.5	BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
5	0.5	BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
6	1	VT/BU	3674	NOx Sensor 1 Control	I	—

B137 Power Steering Shaft Torque Sensor

—

Connector Part Information

Harness Type: Power Steering
OEM Connector: 965382-2
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way

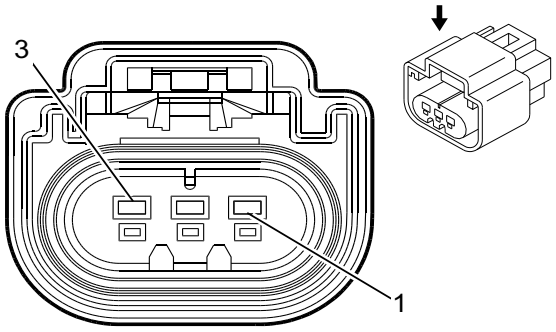
Terminal Part Information

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

B137 Power Steering Shaft Torque Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/RD	6631	Torque Input Sensor High Reference	I	—
2	0.5	BN/BK	—	5 - Volt Reference	I	—
3	0.5	WH/OG	—	PWM	I	—
4	0.5	BK/BU	6632	Torque Input Sensor Low Reference	I	—
5	0.5	BN/RD	6631	Torque Input Sensor High Reference	I	—
6	0.5	BU/GY	6633	Torque Input Sensor Signal	I	—
7	0.5	BU/GY	6633	Torque Input Sensor Signal	I	—
8	0.5	BK/BU	6632	Torque Input Sensor Low Reference	I	—

B150 Fuel Tank Pressure Sensor



1962078

Connector Part Information

Harness Type: Chassis
OEM Connector: 13511996
Service Connector: 13580873
Description: 3-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

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/GN	6281	Fuel Level Sensor Low Reference	I	—
3	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5V Reference	I	—

B153D Seat Belt Buckle - Driver

—

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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
1	0.35	BK/OG	1363	Driver Seat Belt Switch Low Reference	I	—
2	0.35	OG/BN	238	Driver Seat Belt Switch Signal	I	—

B153P Seat Belt Buckle - Passenger

—

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way

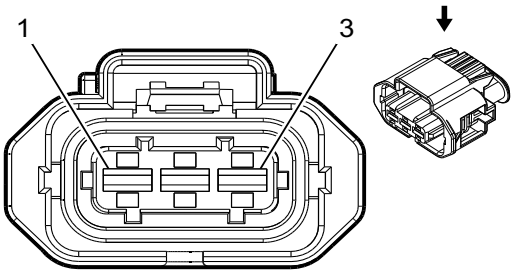
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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
1	0.35	BK/OG	1361	Passenger Seat Belt Switch Low Reference	I	—
2	0.35	OG/VT	1362	Passenger Seat Belt Switch Signal	I	—

B154 Diesel Particulate Filter Exhaust Differential Pressure Sensor



2373703

Connector Part Information

Harness Type: Chassis
OEM Connector: 1928405523
Service Connector: 13384360
Description: 3-Way F 2.8 Series, Sealed (BK with BU Lock)

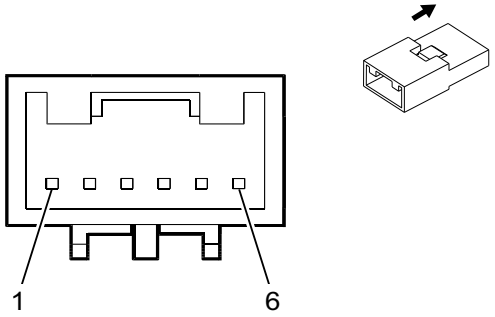
Terminal Part Information

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

B154 Diesel Particulate Filter Exhaust Differential Pressure Sensor

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

B160 Windshield Temperature and Inside Moisture Sensor (C68)



2839920

Connector Part Information

Harness Type: Headliner
OEM Connector: AIT2WSB-06-1AK
Service Connector: 19299681
Description: 6-Way M 0.64 Kaizen Series (BK)

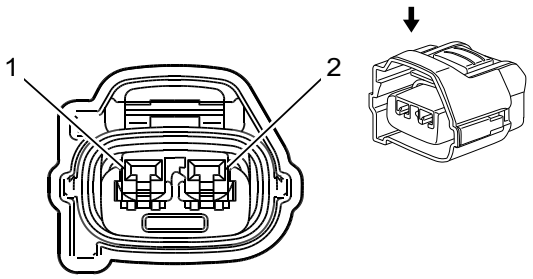
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-65B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

B160 Windshield Temperature and Inside Moisture Sensor (C68)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE/RD	597	5V Reference	I	—
2	0.35	GY/BU	7564	Humidity Sensor Signal	I	—
3	0.35	BK/BU	7566	Humidity/Windscreen Temp Sensor Low Reference	I	—
4	0.35	GY/GN	7565	Windscreen Temp Sensor Signal	I	—
5	0.35	YE/BU	3197	Humidity Temperature Sensor Signal	I	—
6	—	—	—	Not Occupied	—	—

B193A Charge Air Cooler Inlet Temperature Sensor



2388842

Connector Part Information

Harness Type: Engine
OEM Connector: 7283-7020-10
Service Connector: 19368660
Description: 2-Way F 090 Series, Sealed (D-GY)

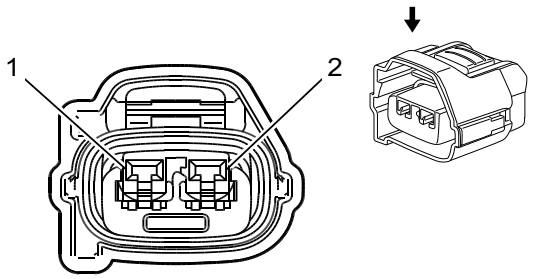
Terminal Part Information

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	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	—

B193B Charge Air Cooler Outlet Temperature Sensor



2388842

Connector Part Information

Harness Type: Engine
OEM Connector: 7283-7020-10
Service Connector: 19368660
Description: 2-Way F 090 Series, Sealed (D-GY)

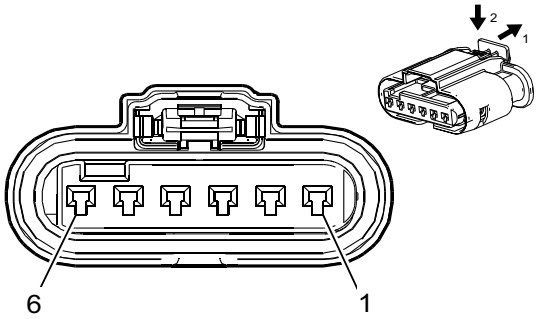
Terminal Part Information

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/BU	3680	Charge Air Cooler Outlet Temperature Sensor Low Reference	I	—

B195A Nitrogen Oxides Sensor 1



3960142

Connector Part Information

Harness Type: Chassis
OEM Connector: 34900-6119
Service Connector: 19368560
Description: 6-Way F 1.2 MCON-LL Series, Sealed (BK)

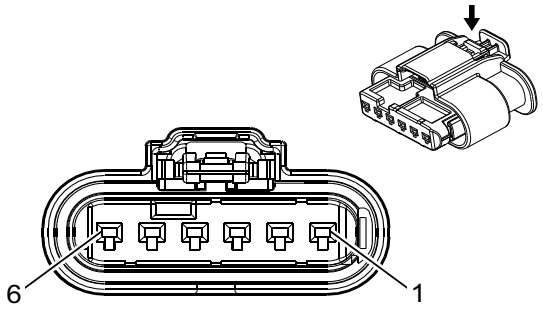
Terminal Part Information

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	VT/BU	3674	NOx Sensor 1 Control	I	—
2	0.5	BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
3	0.5	BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
4	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
5	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
6	1	BK	1950	Ground	I	—

B195B Nitrogen Oxides Sensor 2



4455148

Connector Part Information

Harness Type: Chassis
OEM Connector: 34900-6128
Service Connector: 19368561
Description: 6-Way F 1.2 MCON-LL Series, Sealed (GY)

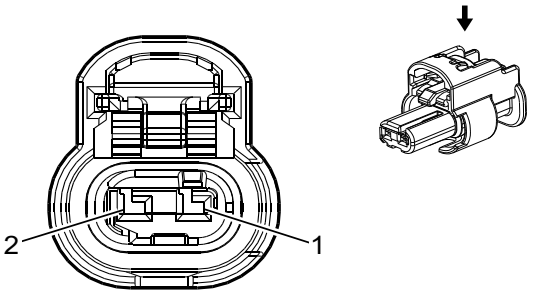
Terminal Part Information

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	VT/BU	3674	NOx Sensor 1 Control	I	—
2	0.5	BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
3 - 4	—	—	—	Not Occupied	—	—
5	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
6	1	BK	1950	Ground	I	—

B203 Radiator Coolant Temperature Sensor



4649903

Connector Part Information

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

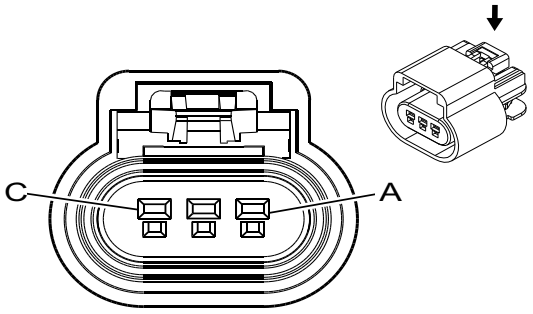
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

B203 Radiator Coolant Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BK	3000	Coolant Temperature Sensor 2 Signal	I	—
2	0.5	BK/BU	6813	Coolant Temperature Sensor 2 Low Reference	I	—

B227 Gear Position Sensor



646415

Connector Part Information

Harness Type: Engine
OEM Connector: 15326808
Service Connector: 19368886
Description: 3-Way F 150 GT Series, Sealed (BK)

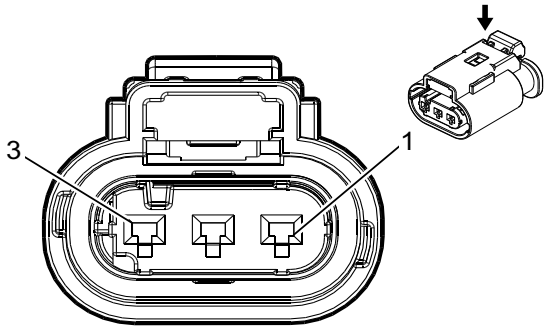
Terminal Part Information

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

B227 Gear Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	YE/BK	7478	Rotary Position Sensor Low Reference	I	—
B	0.5	WH/RD	7477	Rotary Position Sensor 5V Reference	I	—
C	0.5	WH/GN	7479	Rotary Position Sensor Signal	I	—

B310 Fuel Pressure/Temperature Sensor (LGZ/LCV)



3240107

Connector Part Information

Harness Type: Fuel Injector
OEM Connector: 13503573
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

B310 Fuel Pressure/Temperature Sensor (LGZ/LCV)

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

C1 Battery X2 (-)

—

Connector Part Information

Harness Type: Battery Cable Negative
OEM Connector: BBS16068
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

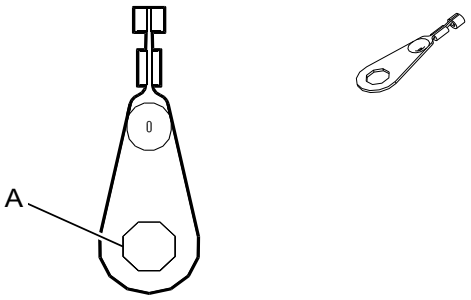
Terminal Part Information

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

C1 Battery X2 (-)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	BK	250	Ground	I	—

C1 Battery X3 (-)



2906941

Connector Part Information

Harness Type: Body
OEM Connector: 13268280
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

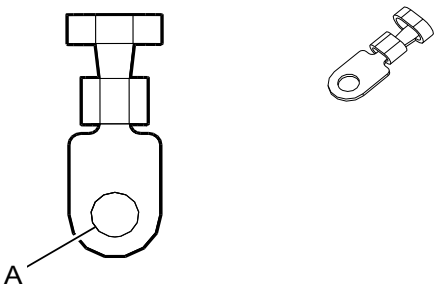
Terminal Part Information

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

C1 Battery X3 (-)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK	1650	Ground	I	—

C1 Battery X1 (+)



2892235

Connector Part Information

Harness Type: Battery Cable Positive
OEM Connector: 15327720
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

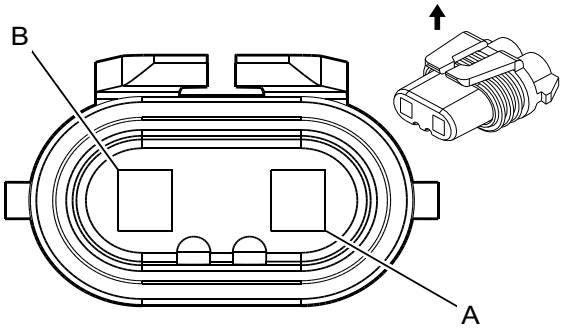
Terminal Part Information

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

C1 Battery X1 (+)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	35	RD	1	Unfused Battery Positive Voltage	I	—

E4E Headlamp - Left High Beam



684797

Connector Part Information

Harness Type: Left Front Headlamp Assembly
OEM Connector: 12059183
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 280 Metri-Pack Series, Sealed (BK)

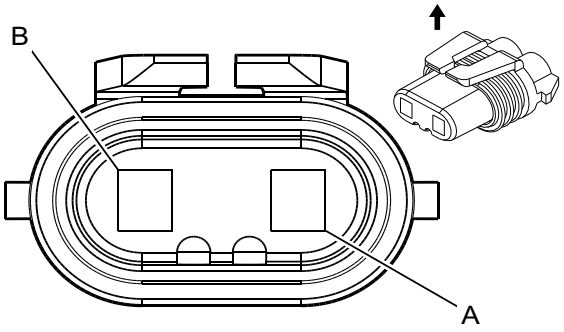
Terminal Part Information

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

E4E Headlamp - Left High Beam

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	BK	711	Left Headlamp High Beam Control	I	—
B	1.5	BK	1150	Ground	I	—

E4F Headlamp - Right High Beam



684797

Connector Part Information

Harness Type: Right Front Headlamp Assembly
OEM Connector: 12059183
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	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

E4F Headlamp - Right High Beam

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	BK	311	Right Headlamp High Beam Control	I	—
B	1.5	BK	1250	Ground	I	—

E4G Headlamp - Left Low Beam

—

Connector Part Information

Harness Type: Left Front Headlamp Assembly
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

E4G Headlamp - Left Low Beam

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	BK	712	Left Headlamp Low Beam Control	I	—
2	1.5	BK	1150	Ground	I	—

E4H Headlamp - Right Low Beam

—

Connector Part Information

Harness Type: Right Front Headlamp Assembly
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

E4H Headlamp - Right Low Beam

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	BK	1250	Ground	I	—
2	1.5	BK	312	Right Headlamp Low Beam Control	I	—

E4J Park Lamp - Left Front

—

Connector Part Information

Harness Type: Left Front Headlamp Assembly
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

E4J Park Lamp - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	RD	709	Left Park Lamp Control	I	—
B	0.75	BK	1150	Ground	I	—

E4K Park Lamp - Right Front (X88)

—

Connector Part Information

Harness Type: Right Front Headlamp Assembly
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way

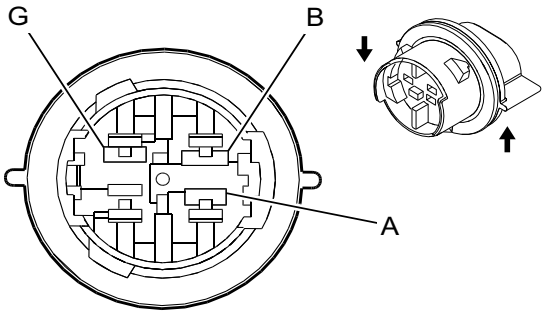
Terminal Part Information

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

E4K Park Lamp - Right Front (X88)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	RD	309	Right Park Lamp Control	I	—
B	0.75	BK	1250	Ground	I	—

E4N Park/Turn Signal Lamp - Left



1717007

Connector Part Information

Harness Type: Left Front Headlamp Assembly
OEM Connector: 16530873
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Wedge Base Lamp Socket, Type W-3 (BK)

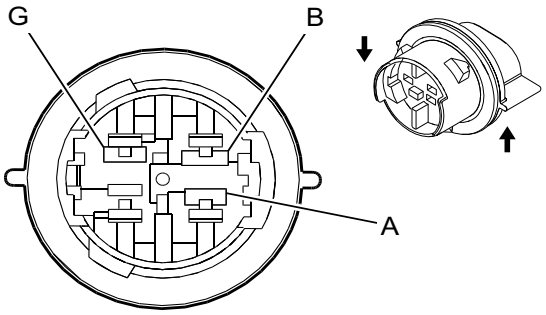
Terminal Part Information

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

E4N Park/Turn Signal Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	YE	1314	Left Front Turn Signal Lamp Control	I	—
B	0.75	BK	709	Left Park Lamp Control	I	—
G	0.75	BK	1150	Ground	I	—

E4P Park/Turn Signal Lamp - Right



1717007

Connector Part Information

Harness Type: Right Front Headlamp Assembly
OEM Connector: 16530873
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Wedge Base Lamp Socket, Type W-3 (BK)

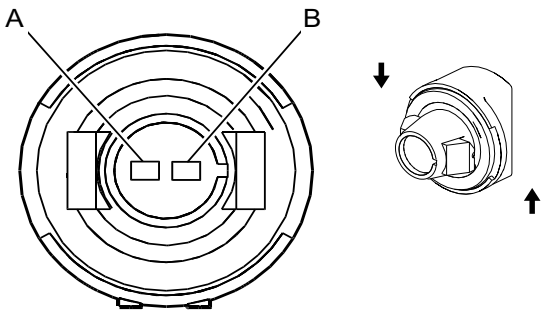
Terminal Part Information

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

E4P Park/Turn Signal Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	YE	1315	Right Front Turn Signal Lamp Control	I	—
B	0.75	BK	309	Right Park Lamp Control	I	—
G	0.75	BK	1250	Ground	I	—

E5A Backup Lamp - Left



877923

Connector Part Information

Harness Type: Left Tail Lamp
OEM Connector: 16530675
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F (L-GY)

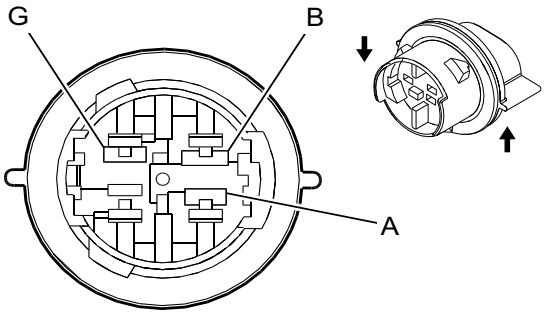
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	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	0.75	YE	24	Backup Lamp Control	I	—
B	0.75	BK	750	Ground	I	—

E5AG Tail/Stop and Turn Signal Lamp - Left Upper



1717007

Connector Part Information

Harness Type: Left Tail Lamp
OEM Connector: 16530873
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Wedge Base Lamp Socket, Type W-3 (BK)

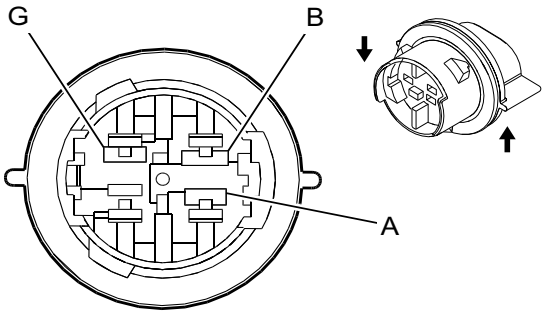
Terminal Part Information

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

E5AG Tail/Stop and Turn Signal Lamp - Left Upper

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	GY	7542	Left Rear Stop Lamp Control	I	—
B	—	OG	2509	Left Rear Park Lamp Control	I	—
G	—	BK	750	Ground	I	—

E5AH Tail/Stop and Turn Signal Lamp - Right Upper



1717007

Connector Part Information

Harness Type: Right Tail Lamp
OEM Connector: 16530873
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Wedge Base Lamp Socket, Type W-3 (BK)

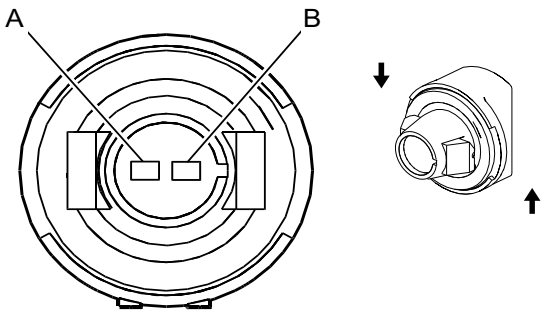
Terminal Part Information

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

E5AH Tail/Stop and Turn Signal Lamp - Right Upper

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	GY	7541	Right Rear Stop Lamp Control	I	—
B	—	OG	4609	Audio Request Signal	I	—
G	—	BK	850	Ground	I	—

E5B Backup Lamp - Right



877923

Connector Part Information

Harness Type: Right Tail Lamp
OEM Connector: 16530675
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F (L-GY)

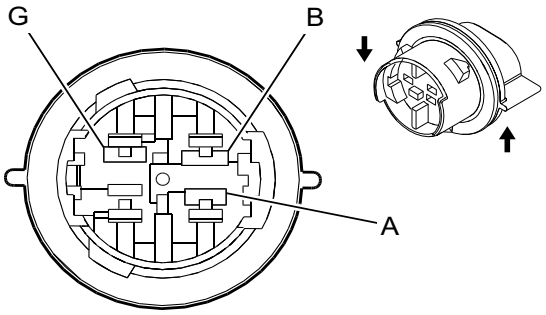
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	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	—	YE	24	Backup Lamp Control	I	—
B	—	BK	850	Ground	I	—

E5U Tail/Stop and Turn Signal Lamp - Left Lower



1717007

Connector Part Information

Harness Type: Left Tail Lamp
OEM Connector: 16530873
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Wedge Base Lamp Socket, Type W-3 (BK)

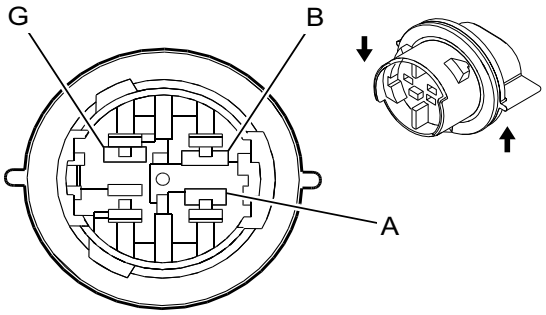
Terminal Part Information

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

E5U Tail/Stop and Turn Signal Lamp - Left Lower

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	GY	7542	Left Rear Stop Lamp Control	I	—
B	—	OG	2509	Left Rear Park Lamp Control	I	—
G	—	BK	750	Ground	I	—

E5V Tail/Stop and Turn Signal Lamp - Right Lower



1717007

Connector Part Information

Harness Type: Right Tail Lamp
OEM Connector: 16530873
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Wedge Base Lamp Socket, Type W-3 (BK)

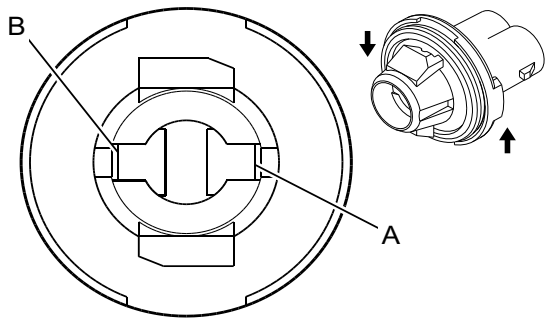
Terminal Part Information

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

E5V Tail/Stop and Turn Signal Lamp - Right Lower

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	GY	7541	Right Rear Stop Lamp Control	I	—
B	—	OG	4609	Audio Request Signal	I	—
G	—	BK	850	Ground	I	—

E7L License Plate Lamp - Left



744036

Connector Part Information

Harness Type: License Lamp
OEM Connector: 15324946
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F Lamp Socket Wedge Base, Type W-2 (D-GY)

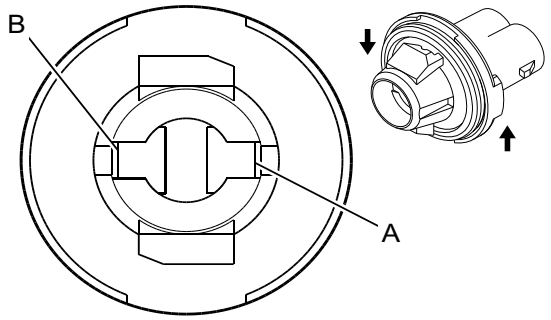
Terminal Part Information

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

E7L License Plate Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GN/YE	6846	Rear License Lamp Control	I	—
B	0.5	BK	750	Ground	I	—

E7R License Plate Lamp - Right



744036

Connector Part Information

Harness Type: License Lamp
OEM Connector: 15324946
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F Lamp Socket Wedge Base, Type W-2 (D-GY)

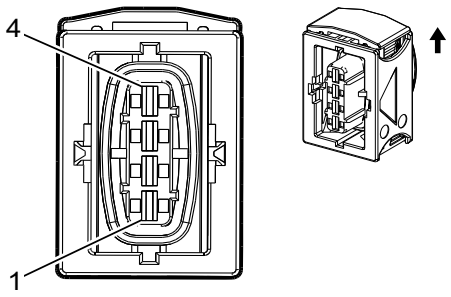
Terminal Part Information

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

E7R License Plate Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GN/YE	6846	Rear License Lamp Control	I	—
B	0.5	BK	750	Ground	I	—

E11 Fuel Heater



2470480

Connector Part Information

Harness Type: Chassis
OEM Connector: 15397339
Service Connector: 19368722
Description: 4-Way F 2.8 Junior Power Timer Series, Sealed (BK)

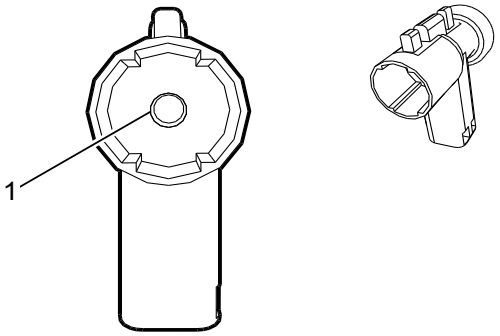
Terminal Part Information

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

E11 Fuel Heater

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/GY	7072	Sensor Fuel Temperature 1 Signal	I	—
2	0.5	BN/WH	7073	Sensor Fuel Temperature 1 Low Reference	I	—
3	2.5	BK	1950	Ground	I	—
4	2.5	BU/GN	7071	Heater Fuel Control	I	—

E12A Glow Plug 1 (LWN)



2323611

Connector Part Information

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

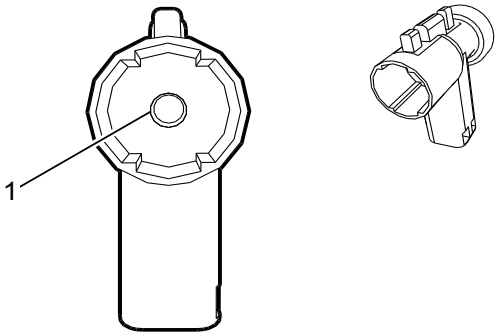
Terminal Part Information

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 (LWN)

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

E12B Glow Plug 2 (LWN)



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)

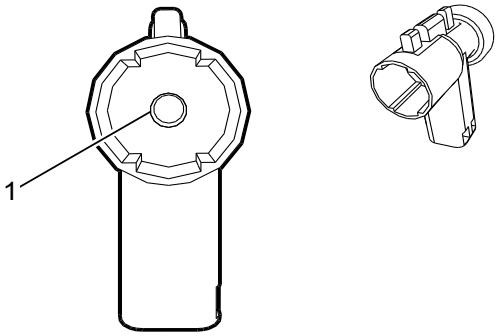
Terminal Part Information

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 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY/BN	1582	Glow Plug Control 2	I	—

E12C Glow Plug 3 (LWN)



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)

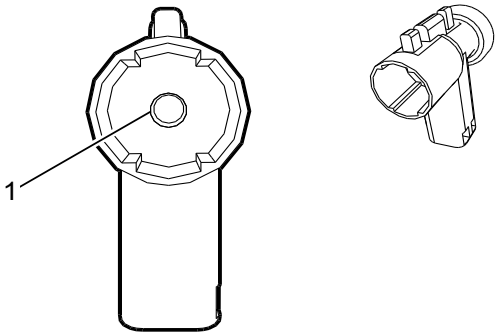
Terminal Part Information

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 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY/GN	1583	Glow Plug Control 3	I	—

E12D Glow Plug 4 (LWN)



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)

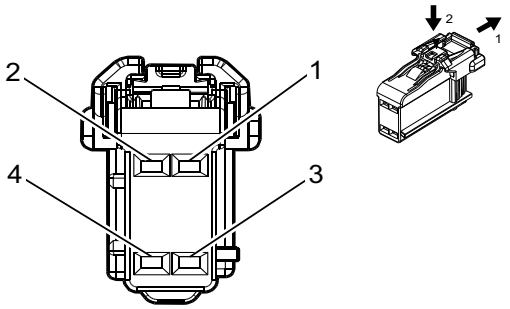
Terminal Part Information

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 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY/YE	1584	Glow Plug Control 4	I	—

E14A Seat Heating Element - Driver Back (KA1)



4539012

Connector Part Information

Harness Type: Driver Seat Back
OEM Connector: 13595575
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.2 Series (GY)

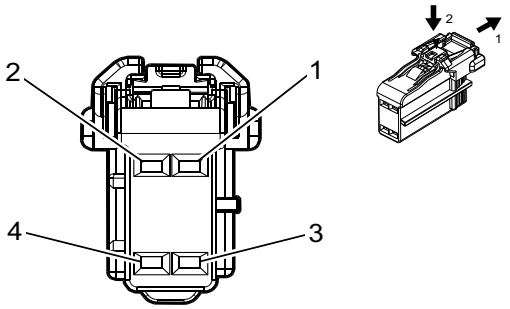
Terminal Part Information

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

E14A Seat Heating Element - Driver Back (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN	2432	Driver Heated Back Element Control	I	—
2	0.75	BU	2425	Driver Heated Back NTC Signal	I	—
3	0.75	BK/YE	2080	Driver Heated Seat NTC Low Reference	I	—
4	0.75	VT/BK	2424	Driver Heated Back Element Low Reference	I	—

E14B Seat Heating Element - Driver Cushion (KA1)



4115727

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: 13595574
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.2 Series (BK)

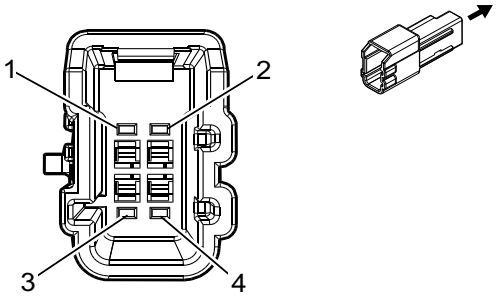
Terminal Part Information

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

E14B Seat Heating Element - Driver Cushion (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/VT	2077	Driver Heated Seat Element Control	I	—
2	0.75	YE/GY	2079	Driver Heated Seat NTC Signal	I	—
3	0.75	BK/YE	2080	Driver Heated Seat NTC Low Reference	I	—
4	0.75	VT/BK	2424	Driver Heated Back Element Low Reference	I	—

E14C Seat Heating Element - Passenger Back (KA1)



4293695

Connector Part Information

Harness Type: Passenger Seat Back
OEM Connector: 13595573
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way M 1.2 Series (GY)

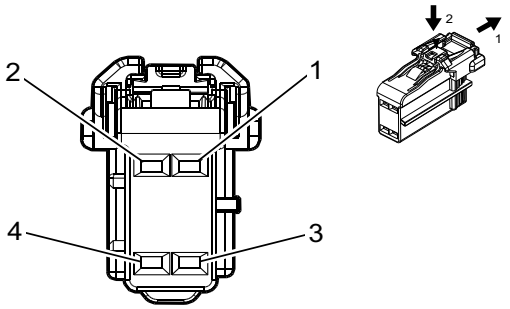
Terminal Part Information

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

E14C Seat Heating Element - Passenger Back (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	WH/BN	2481	Passenger Heated Back Element Control	I	—
2	0.75	WH/BU	2436	Passenger Heated Back NTC Signal	I	—
3	0.75	BK/GN	2482	Passenger Heated Back NTC Low Reference	I	—
4	0.75	BK	2480	Passenger Heated Seat Element Low Reference	I	—

E14D Seat Heating Element - Passenger Cushion (KA1)



4115727

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 13595574
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.2 Series (BK)

Terminal Part Information

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

E14D Seat Heating Element - Passenger Cushion (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/BU	2479	Passenger Heated Seat Element Control	I	—
2	0.75	WH/GY	2434	Passenger Heated Seat NTC Signal	I	—
3	0.75	GY/BK	2435	Passenger Heated Seat NTC Low Reference	I	—
4	0.75	GY/BK	2480	Passenger Heated Seat Element Low Reference	I	—

E15 Steering Wheel Heater

—

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way

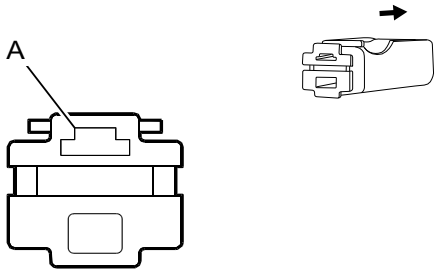
Terminal Part Information

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

E15 Steering Wheel Heater

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	2050	Ground	I	—
2	0.35	GY	5886	Heated Steering Wheel Sensor Signal	I	—
3	0.75	WH	5888	Heated Steering Wheel High Control	I	—
4	0.75	BK	2050	Ground	I	—

E18 Rear Defogger Grid X1



4248834

Connector Part Information

Harness Type: Body
OEM Connector: 7123-5014-30
Service Connector: 19367647
Description: 1-Way F 250 Series (BK)

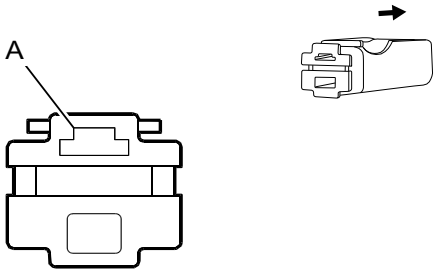
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

E18 Rear Defogger Grid X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.5	BN/VT	293	Rear Defog Element Control	I	—

E18 Rear Defogger Grid X2



4248834

Connector Part Information

Harness Type: Body
OEM Connector: 7123-5014-30
Service Connector: 19367647
Description: 1-Way F 250 Series (BK)

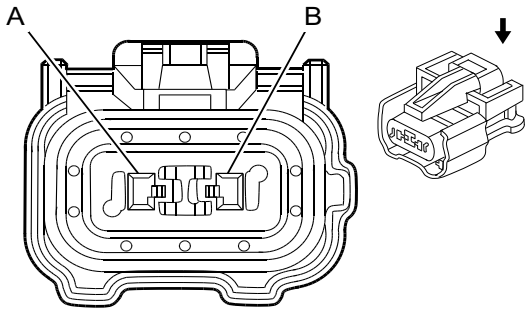
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

E18 Rear Defogger Grid X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	4	BK	3950	Ground	I	—

E29LF Fog Lamp - Left Front



1862046

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13513272
Service Connector: 19369113
Description: 2-Way F 150 GT Series, Sealed (NA)

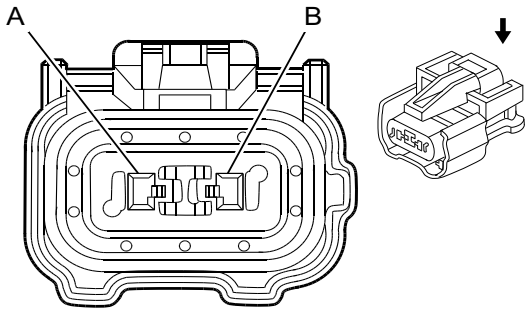
Terminal Part Information

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

E29LF Fog Lamp - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	BN/VT	2234	Front Fog Lamp Control	I	—
B	0.75	BK	1150	Ground	I	—

E29RF Fog Lamp - Right Front



1862046

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13513272
Service Connector: 19369113
Description: 2-Way F 150 GT Series, Sealed (NA)

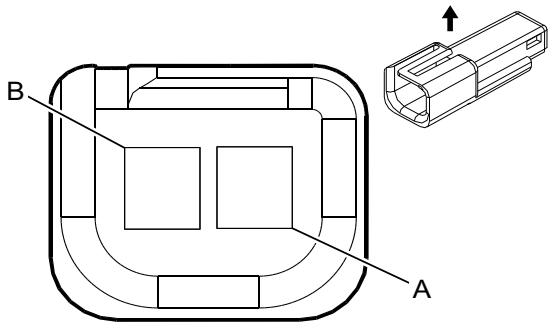
Terminal Part Information

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

E29RF Fog Lamp - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	BN/VT	2234	Front Fog Lamp Control	I	—
B	0.75	BK	1250	Ground	I	—

E31L Sunshade Mirror Lamp - Left



35441

Connector Part Information

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

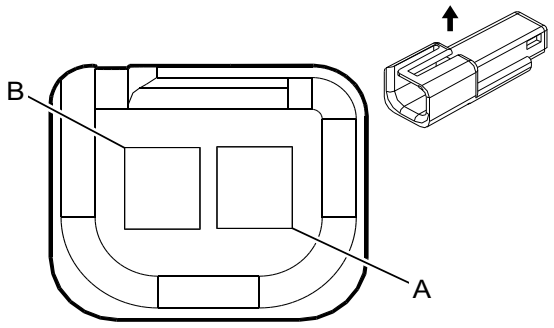
Terminal Part Information

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

E31L Sunshade Mirror Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH/BN	6815	Inadvertent Power Control	I	—
B	0.5	BK	3150	Ground	I	—

E31R Sunshade Mirror Lamp - Right



35441

Connector Part Information

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

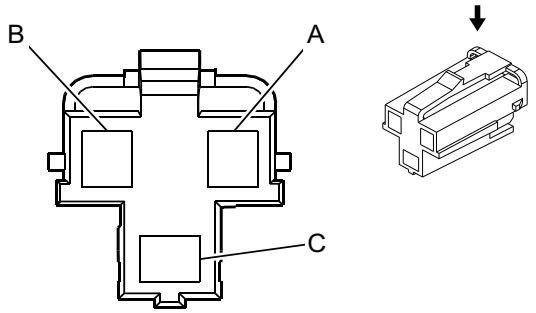
Terminal Part Information

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

E31R Sunshade Mirror Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH/BN	6815	Inadvertent Power Control	I	—
B	0.5	BK	3150	Ground	I	—

E32 Cigarette Lighter Receptacle (SAO)



362748

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12176836
Service Connector: Pending
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	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

E32 Cigarette Lighter Receptacle (SAO)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT	1701	Retained Accessory Power Ignition	I	—
B	—	—	—	Not Occupied	—	—
C	1.5	BK	2050	Ground	I	—

E33L Cargo Lamp - Left (S0Y)

—

Connector Part Information

Harness Type: Center High Mounted Stop 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

E33L Cargo Lamp - Left (S0Y)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	WH/VT	1430	Exterior Courtesy Lamp Control	I	—
B	0.75	BK/WH	751	Signal Ground	I	—

E33R Cargo Lamp - Right (S0Y)

—

Connector Part Information

Harness Type: Center High Mounted Stop Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way

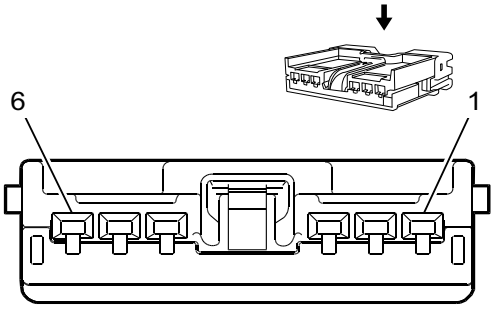
Terminal Part Information

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

E33R Cargo Lamp - Right (S0Y)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	WH/VT	1430	Exterior Courtesy Lamp Control	I	—
B	0.75	BK/WH	751	Signal Ground	I	—

E36AH Dome Lamp (TCA)



2180199

Connector Part Information

Harness Type: Headliner
OEM Connector: 6098-5985
Service Connector: 13576538
Description: 6-Way F 1.5 Series (BK)

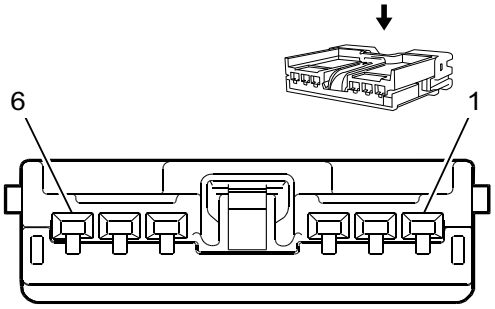
Terminal Part Information

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

E36AH Dome Lamp (TCA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.5	GY	157	Interior Lamp Control	I	—
3	—	—	—	Not Occupied	—	—
4	0.35	GY/GN	328	Interior Lamp Defeat Switch Signal	I	—
5	0.35	GY	156	Courtesy Lamp Switch Signal	I	—
6	0.5	BK	3150	Ground	I	—

E37F Dome/Reading Lamps - Front



2180199

Connector Part Information

Harness Type: Headliner
OEM Connector: 6098-5985
Service Connector: 13576538
Description: 6-Way F 1.5 Series (BK)

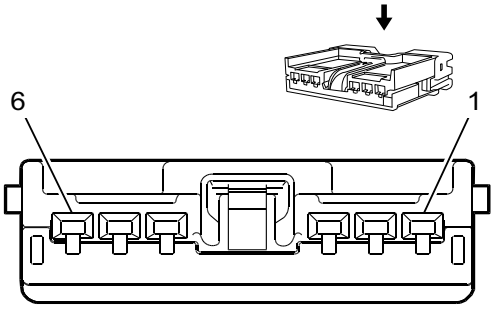
Terminal Part Information

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

E37F Dome/Reading Lamps - Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BN	6815	Inadvertent Power Control	I	—
2	0.5	GY	157	Interior Lamp Control	I	—
3	0.5	YE	6817	LED Backlight Dimming Control	I	—
4	0.35	GY/GN	328	Interior Lamp Defeat Switch Signal	I	—
5	0.35	GY	156	Courtesy Lamp Switch Signal	I	—
6	0.5	BK	3150	Ground	I	—

E37R Dome/Reading Lamps - Rear



2180199

Connector Part Information

Harness Type: Headliner
OEM Connector: 6098-5985
Service Connector: 13576538
Description: 6-Way F 1.5 Series (BK)

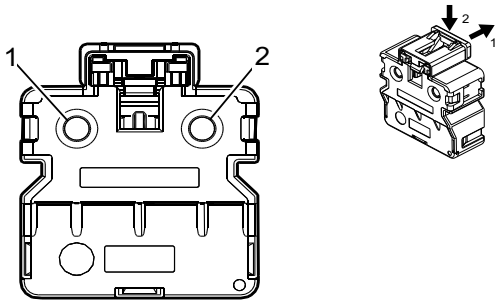
Terminal Part Information

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

E37R Dome/Reading Lamps - Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BN	6815	Inadvertent Power Control	I	—
2	0.5	GY	157	Interior Lamp Control	I	—
3 - 5	—	—	—	Not Occupied	—	—
6	0.5	BK	3150	Ground	I	—

E40 Electrical Auxiliary Heater X1



4322228

Connector Part Information

Harness Type: HVAC
OEM Connector: C380-10E106 241 2
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 3.6 HCC Series (BK)

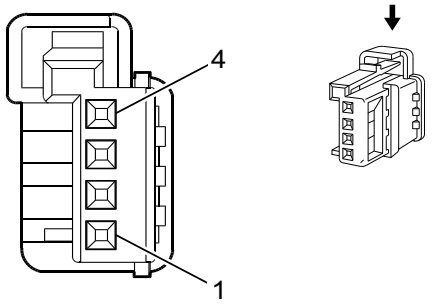
Terminal Part Information

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

E40 Electrical Auxiliary Heater X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	10	BK/GY	1350	Ground	I	—
2	10	RD/GY	4840	Battery Positive Voltage	I	—

E40 Electrical Auxiliary Heater X2 (LWN)



2179793

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1379029-1
Service Connector: 13584096
Description: 4-Way F 0.64 Micro-Quadlock Series (BK)

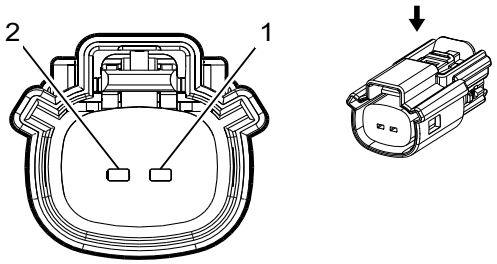
Terminal Part Information

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

E40 Electrical Auxiliary Heater X2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT	3195	Auxiliary Heater Control	I	—
2	0.35	VT/GY	539	Run/Crank Ignition 1 Voltage	I	—
3 - 4	—	—	—	Not Occupied	—	—

E41 Engine Coolant Thermostat Heater



2474713

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0206
Service Connector: 13577534
Description: 2-Way F 1.5 Series, Sealed (BK)

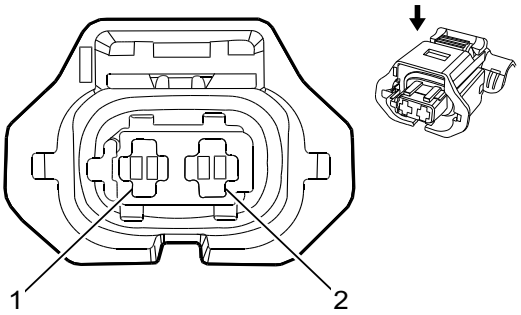
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

E41 Engine Coolant Thermostat Heater

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	BU	6814	Thermostat Engine Cool Control	I	—

E45 Positive Crankcase Ventilation Heater



2231613

Connector Part Information

Harness Type: Engine
OEM Connector: 13595623
Service Connector: 13355762
Description: 2-Way F 2.8 ATS Series, Sealed (BK)

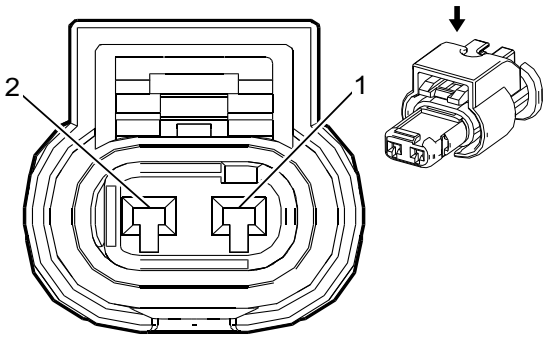
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	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/BU	1497	Crankcase Ventilation (Blowby) Heater Control Signal	I	—
2	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—

E52 Reductant Line Heater (LWN)



2474752

Connector Part Information

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

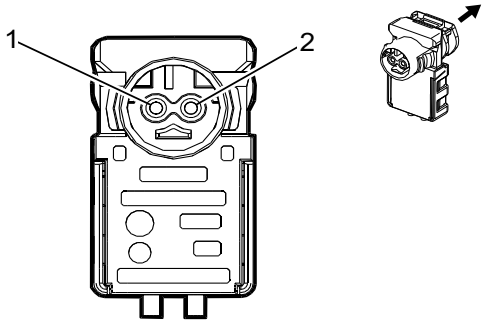
Terminal Part Information

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 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.0	BK/WH	9016	Reductant Line Heater Low Control	I	—
2	1.0	GY/WH	9017	Reductant Line Heater Control	I	—

F101 Passenger Instrument Panel Air Bag X1



3214032

Connector Part Information

Harness Type: Instrument Panel Air Bag
OEM Connector: 13580454
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F AK-2 Series (L-GN with YE Cover)

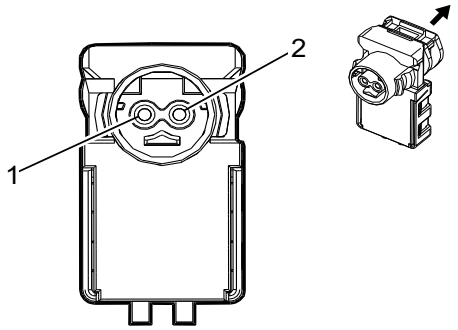
Terminal Part Information

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

F101 Passenger Instrument Panel Air Bag X1

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

F101 Passenger Instrument Panel Air Bag X2



3214033

Connector Part Information

Harness Type: Instrument Panel Air Bag
OEM Connector: 13580453
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F AK-2 Series (YE with YE Cover)

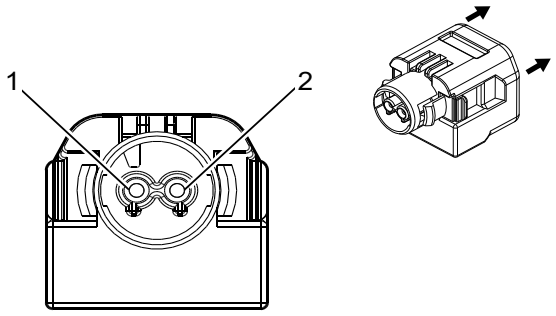
Terminal Part Information

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

F101 Passenger Instrument Panel Air Bag X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	GY	3027	Passenger IP Module Stage 2 High Control	I	—
2	—	OG/VT	3026	Passenger IP Module Stage 2 Low Control	I	—

F105L Roof Rail Air Bag - Left



4676225

Connector Part Information

Harness Type: Body
OEM Connector: 1-1801934-3
Service Connector: 13599241
Description: 2-Way F 1.0 Series (GY with YE Cover)

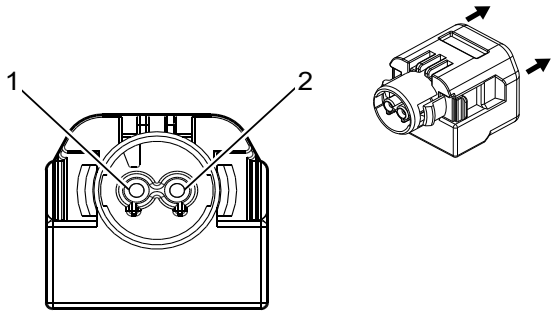
Terminal Part Information

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

F105L Roof Rail Air Bag - Left

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

F105R Roof Rail Air Bag - Right



4676225

Connector Part Information

Harness Type: Body
OEM Connector: 1-1801934-3
Service Connector: 13599241
Description: 2-Way F 1.0 Series (GY with YE Cover)

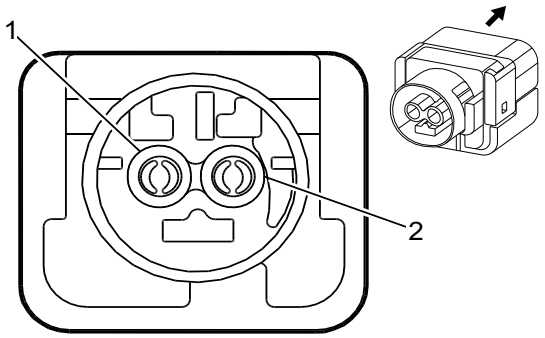
Terminal Part Information

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

F105R Roof Rail Air Bag - Right

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

F106D Seat Side Air Bag - Driver



2231620

Connector Part Information

Harness Type: Driver Seat Back
OEM Connector: PPI0001142
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F FPB 180-1 Series (BK with YE Cover)

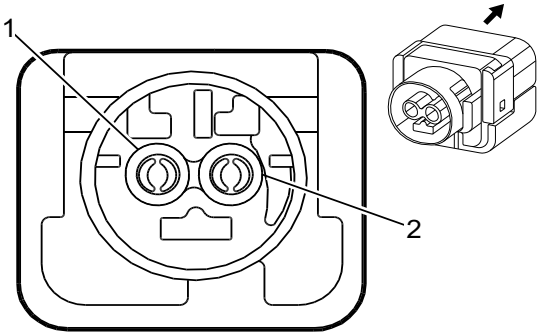
Terminal Part Information

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	.5	OG/BU	3068	Driver Side Impact Module High Control	I	—
2	.5	GN/OG	3069	Driver Side Impact Module Low Control	I	—

F106P Seat Side Air Bag - Passenger



2231620

Connector Part Information

Harness Type: Passenger Seat Back
OEM Connector: PPI0001142
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F FPB 180-1 Series (BK with YE Cover)

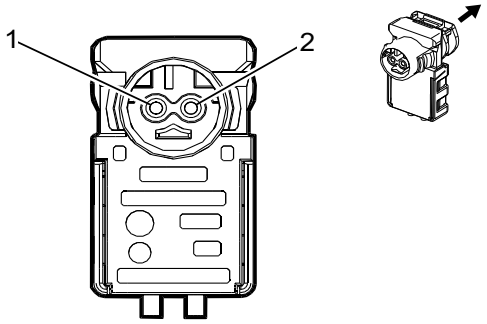
Terminal Part Information

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	0.5	OG/GY	3066	Passenger Side Impact Module High Control	I	—
2	0.5	BN/OG	3067	Passenger Side Impact Module Low Control	I	—

F107 Steering Wheel Air Bag X1



3214032

Connector Part Information

Harness Type: Steering Wheel Air Bag Coil
OEM Connector: 13580454
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F AK-2 Series (L-GN with YE Cover)

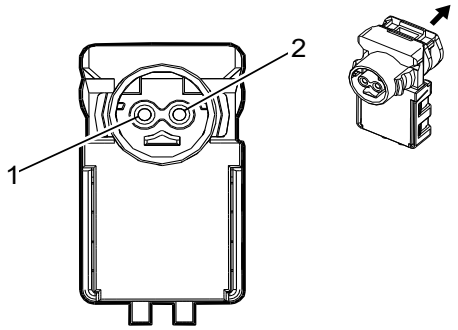
Terminal Part Information

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

F107 Steering Wheel Air Bag X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	TN	3020	Steering Wheel Module Stage 1 Low Control	I	—
2	0.5	BN	3021	Steering Wheel Module Stage 1 High Control	I	—

F107 Steering Wheel Air Bag X2



3214033

Connector Part Information

Harness Type: Steering Wheel Air Bag Coil
OEM Connector: 13580453
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F AK-2 Series (YE with YE Cover)

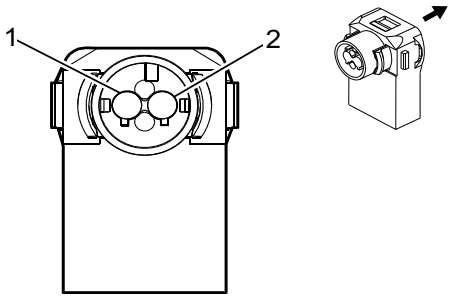
Terminal Part Information

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

F107 Steering Wheel Air Bag X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH	3022	Steering Wheel Module Stage 2 Low Control	I	—
2	0.35	PK	3023	Steering Wheel Module Stage 2 High Control	I	—

F112D Seat Belt Retractor Pretensioner - Driver



4241364

Connector Part Information

Harness Type: Body
OEM Connector: 33345778
Service Connector: 19355490
Description: 2-Way F ABX-5 Series (PU with YE Cover)

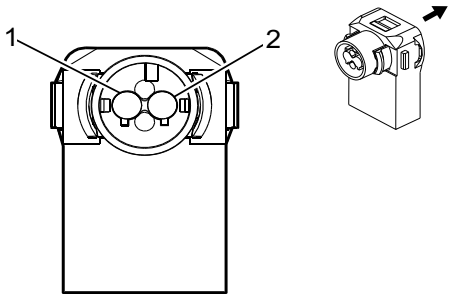
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

F112D Seat Belt Retractor Pretensioner - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/WH	3477	Driver Seat Belt Retractor Pretensioner High Control	I	—
2	0.5	GY/OG	3478	Driver Seat Belt Retractor Pretensioner Low Control	I	—

F112P Seat Belt Retractor Pretensioner - Passenger



4241364

Connector Part Information

Harness Type: Body
OEM Connector: 13516029
Service Connector: 19355490
Description: 2-Way F ABX-5 Series (PU with YE Cover)

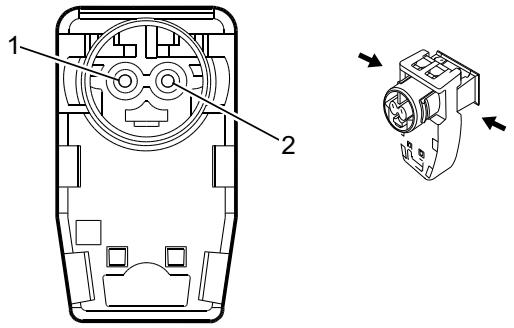
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

F112P Seat Belt Retractor Pretensioner - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/GN	3475	Passenger Seat Belt Retractor Pretensioner High Control	I	—
2	0.5	WH/OG	3476	Passenger Seat Belt Retractor Pretensioner Low Control	I	—

F113D Seat Belt Anchor Pretensioner - Driver



2368877

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 13589979
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F AK-2 Series (YE)

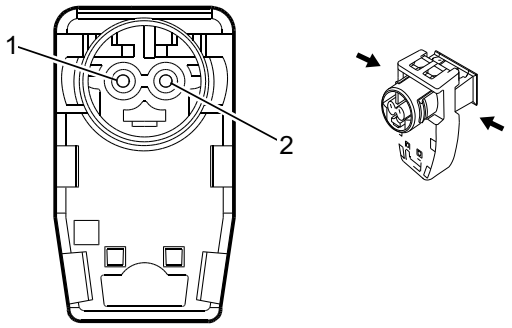
Terminal Part Information

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

F113D Seat Belt Anchor Pretensioner - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/YE	3481	Driver Seat Belt Anchor Pretensioner High Control	I	—
2	0.5	YE/OG	3482	Driver Seat Belt Anchor Pretensioner Low Control	I	—

F113P Seat Belt Anchor Pretensioner - Passenger



2368877

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 13589979
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F AK-2 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	No Tool Required	No Tool Required	Not Required	Not Required	Not Required	Not Required

F113P Seat Belt Anchor Pretensioner - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/BN	3479	Passenger Seat Belt Anchor Pretensioner High Control	I	—
2	0.5	GY/OG	3480	Passenger Seat Belt Anchor Pretensioner Low Control	I	—

G10 Cooling Fan Motor (LCV/LGZ)

—

Connector Part Information

Harness Type: Cooling Fan Motor
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 11-Way

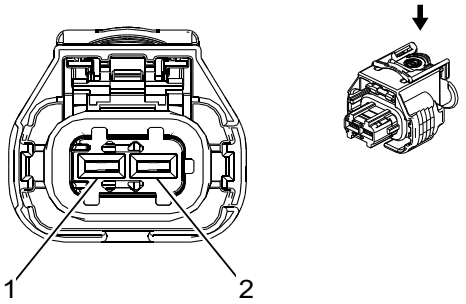
Terminal Part Information

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

G10 Cooling Fan Motor (LCV/LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	BK	1350	Ground	I	—
2	—	RD/GY	4840	Battery Positive Voltage	I	—
4	—	WH/BK	2366	Cooling Fan Control Relay Speed Signal	I	—

G13 Generator X1 ((LGZ+ZR2)/ LCV)



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405521
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 ((LGZ+ZR2)/ LCV)

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

G13 Generator X2 (LCV)

—

Connector Part Information

Harness Type: Battery Cable Positive
OEM Connector: M23002043
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

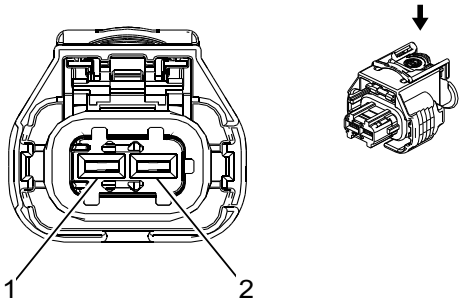
Terminal Part Information

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 (LCV)

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

G13 Generator X1 (LGZ)



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405714
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

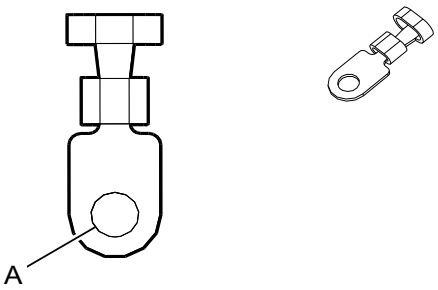
Terminal Part Information

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 (LGZ)

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

G13 Generator X2 (LGZ)



2892235

Connector Part Information

Harness Type: Battery Cable Negative
OEM Connector: 15327720
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

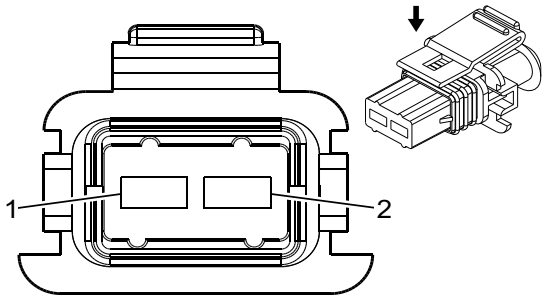
Terminal Part Information

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 (LGZ)

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

G13 Generator X1 (LGZ/LWN)



1522871

Connector Part Information

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

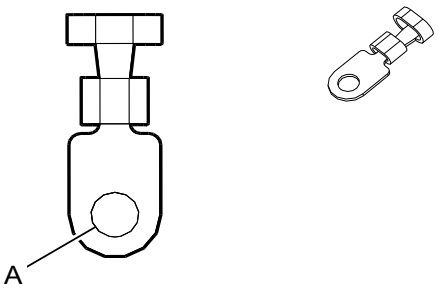
Terminal Part Information

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

G13 Generator X1 (LGZ/LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	25	Charge Indicator Control	I	LWN
2	0.5	GY	23	Generator Field Duty Cycle Signal	I	—

G13 Generator X2 (LWN)



2892235

Connector Part Information

Harness Type: Battery Cable Positive
OEM Connector: 15327720
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

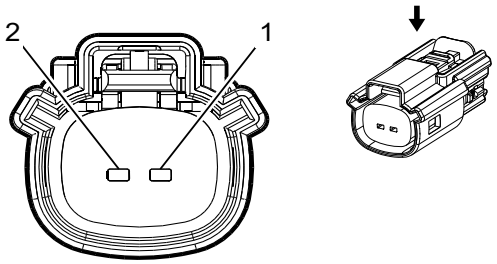
Terminal Part Information

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
A	25	RD/YE	2	Battery Positive Voltage	I	—

G18 High Pressure Fuel Pump



2474713

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0206
Service Connector: 13577534
Description: 2-Way F 1.5 Series, Sealed (BK)

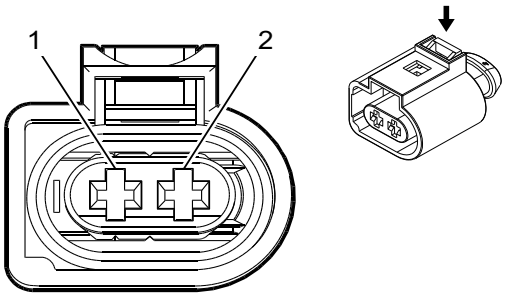
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

G18 High Pressure Fuel Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	7301	High Pressure Fuel Pump Actuator High - Control	I	LCV
	0.5	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control	I	LGZ
2	0.5	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control	I	LCV
	0.5	YE	7301	High Pressure Fuel Pump Actuator High - Control	I	LGZ

G24 Windshield Washer Pump



2474738

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 1-1355200-1
Service Connector: 19368727
Description: 2-Way F 2.8 MDK5 Series, Sealed (BK)

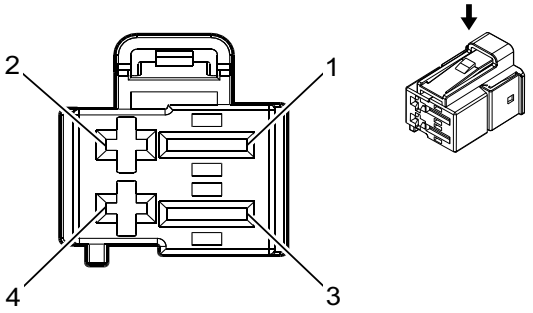
Terminal Part Information

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

G24 Windshield Washer Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GY/VT	228	Windshield Washer Pump Control	I	—
2	0.75	BK	1150	Ground	I	—

K8 Blower Motor Control Module



3924403

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1-1418507-2
Service Connector: 19352990
Description: 4-Way F 2.8, 6.3 MCON Series (BK)

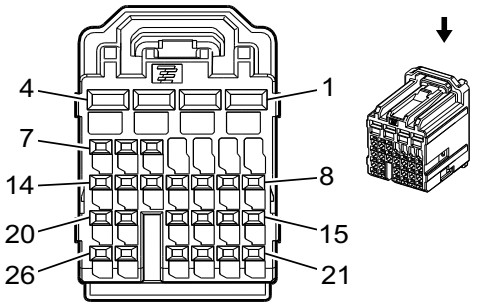
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-40 (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

K8 Blower Motor Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	5	BK	2250	Ground	I	—
2	—	—	—	Not Occupied	—	—
3	2.5	RD/VT	542	Battery Positive Voltage	I	—
4	0.35	BU/GY	754	Blower Motor Speed Control	II	—

K9 Body Control Module X1



2537268

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 2098067-1
Service Connector: 13576031
Description: 26-Way F 0.64, 2.8 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	13575578	J-35616-35 (VT)	J-38125-553	8100-4445	Sumitomo 22	F	D
II	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	Sumitomo 22	2	A

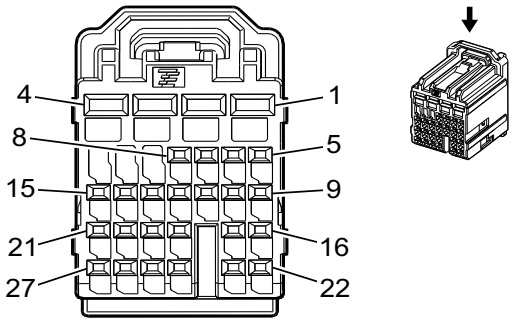
K9 Body Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	2150	Ground	III	—
2	2.5	RD/GN	2440	Battery Positive Voltage	I	—
3	2.5	RD/YE	2340	Battery Positive Voltage	I	—
4	0.75	RD/BN	2240	Battery Positive Voltage	III	—
5	0.35	WH	6816	Indicator Dimming Control	II	—
6	—	—	—	Not Occupied	—	—
7	0.35	BK/YE	5005	Instrument Panel Lamp Dimmer Switch Low Reference	II	—
8 - 9	—	—	—	Not Occupied	—	—
10	0.35	BU/YE	6844	ABS/TCS Hill Descent Control Switch Signal	II	—
11	0.35	GN/BN	306	Headlamp Switch Headlamps Off Signal Control	II	—
12	—	—	—	Not Occupied	—	—
13	0.35	BU/RD	1688	5V Reference	II	—
14	0.35	GY/GN	328	Interior Lamp Defeat Switch Signal	II	—
15	0.35	BU/GY	192	Front Fog Lamp Switch Signal	II	—
16	0.35	WH/VT	103	Headlamp Switch On Signal	II	—
17 - 18	—	—	—	Not Occupied	—	—
19	0.35	BK/BN	5360	Brake Apply Sensor Low Reference	II	—

K9 Body Control Module X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20	—	—	—	Not Occupied	—	—
21	0.35	GY	728	Security Indicator Control	II	—
22	0.35	GN/GY	13	Headlamp Switch Park Lamp Signal	II	—
23	—	—	—	Not Occupied	—	—
24	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
25	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
26	0.35	BU/WH	3275	Remote Function Actuator Receive Signal	II	—

K9 Body Control Module X2



2537269

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13576032
Service Connector: 13576032
Description: 27-Way F 0.64, 2.8 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	13575578	J-35616-35 (VT)	J-38125-553	8100-4445	Sumitomo 22	F	D
II	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Avail-able	Not Avail-able	Not Avail-able
III	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	Sumitomo 22	2	A

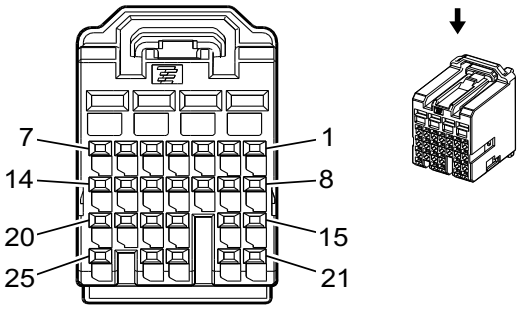
K9 Body Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	RD/GY	2140	Battery Positive Voltage	III	—
2	0.75	BK	2150	Ground	III	—
3	—	—	—	Not Occupied	—	—
4	2.5	RD/VT	4040	Battery Positive Voltage	I	—
5	0.5	GY	157	Interior Lamp Control	II	—
6	0.35	GY	5697	Child Lockout Indicator Control	II	—
7	0.35	BU/YE	5361	Brake Apply Sensor Signal	II	—
8	0.5	YE	6817	LED Backlight Dimming Control	II	—
9	0.35	YE/GY	44	Instrument Panel Lamp Dimmer Switch Signal	II	—
10	0.35	WH/BU	278	Ambient Light Sensor Signal	II	—
11	0.35	VT/YE	5526	Tap Up/Tap Down Switch Signal	II	—
12	—	—	—	Not Occupied	—	—
13	0.35	WH	5359	Brake Apply Sensor Control	II	—
14	0.35	BU/VT	1788	Traction Control Switch Signal 1	II	—
15	0.35	BN/WH	781	Driver Door Lock Switch Unlock Signal	II	—
16	0.35	GY	3273	Remote Function Actuator Low Reference	II	—
17	—	—	—	Not Occupied	—	—

K9 Body Control Module X2 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
18	0.35	YE/BN	3265	Child Security Lock Switch Signal	II	—
19	0.35	BN/YE	780	Driver Door Lock Switch Lock Signal	II	—
20	0.5	WH/BU	3691	Trailer Brake Apply Signal	II	—
21	0.5	GN/GY	6135	Local Interconnect Network Serial Data Bus 4	II	—
22	0.5	GN	5060	Low Speed GMLAN Serial Data	II	—
23	0.35	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
24	0.35	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
25	0.35	GY/WH	3272	Remote Function Actuator Control	II	—
26	0.35	GN/WH	111	Hazard Switch Signal	II	—
27	0.35	YE/GN	3274	Remote Function Actuator Transmit Signal	II	—

K9 Body Control Module X3



2537274

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13576037
Service Connector: 13576037
Description: 25-Way F 0.64, 2.8 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	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available

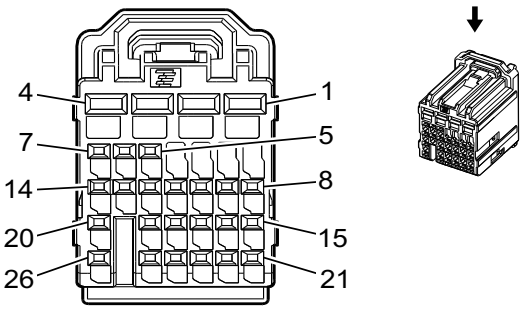
K9 Body Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GN/GY	3277	Vehicle Anti-Theft System Immobilizer Low Reference	I	—
2	0.35	GN/VT	7533	Local Interconnect Network Serial Data Bus 11	I	—
3	0.35	GY/BK	3276	Vehicle Anti-Theft System Immobilizer Control	I	—
4	0.35	WH/RD	1444	12V Reference	I	—
5	0.5	VT/YE	4	Accessory Ignition Voltage	I	—
6	0.5	VT/BK	3	Run/Crank Ignition 1 Voltage	I	—
7	0.35	VT/YE	143	Accessory Ignition Voltage	I	—
8	0.35	GN	6818	Steering Wheel Resistor Ladder Signal 1	I	—
9	0.35	BN/GN	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	—
10	0.35	BK/GY	6009	Windshield Wiper Switch Low Reference	I	—
11	0.35	WH	524	Headlamp Dimmer Switch High Beam Signal	I	—
12	0.35	WH/GN	663	Hazard Switch Left Turn Signal	I	—
13	0.35	YE/BU	1714	Windshield Wiper Switch Low Signal	I	—
14	0.35	BU/GY	553	Shift Select Switch Performance Signal	I	—
15	0.5	WH/VT	1020	Off/Run/Crank Ignition Voltage	I	—
16	0.35	GY/GN	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	I	—
17	0.35	YE/BN	307	Headlamp Switch Flash To Pass Signal	I	—
18	0.35	GN/WH	3287	Horn Switch Signal	I	—
19	0.5	GN/WH	7527	Local Interconnect Network Serial Data Bus 5	I	—

K9 Body Control Module X3 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20	0.35	GY	1715	Windshield Wiper Switch High Signal	I	—
21	—	—	—	Not Occupied	—	—
22	0.5	WH/BK	1073	Ignition Key Resistor Signal	I	—
23	0.35	GY	5054	Sport Mode Switch Signal	I	—
24	0.35	VT/BU	664	Hazard Switch Right Turn Signal	I	—
25	0.35	WH/BK	94	Windshield Washer Switch Signal	I	—

K9 Body Control Module X4



2537270

Connector Part Information

Harness Type: Body
OEM Connector: 2098067-3
Service Connector: 13576033
Description: 26-Way F 0.64, 2.8 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	13575578	J-35616-35 (VT)	J-38125-553	Not Available	Not Available	Not Available	Not Available
II	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	13582298	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
IV	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	Sumitomo 22	2	A

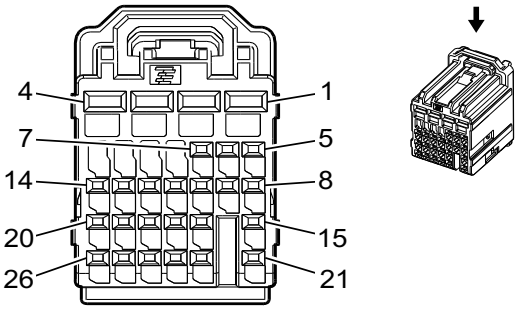
K9 Body Control Module X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	YE	312	Right Headlamp Low Beam Control	I	—
2	1.5	YE	712	Left Headlamp Low Beam Control	I	—
3	0.75	GN/VT	1315	Right Front Turn Signal Lamp Control	IV	—
4	1.5	WH/YE	7541	Right Rear Stop Lamp Control	I	—
5	0.5	GY/BN	309	Right Park Lamp Control	II	—
6	0.5	VT/GY	709	Left Park Lamp Control	II	—
7	0.5	BN/BU	2509	Left Rear Park Lamp Control	II	—
8 - 11	—	—	—	Not Occupied	—	—
12	0.35	GY/VT	755	RAP Relay Coil Control	II	—
13	0.5	GN/YE	6846	Rear License Lamp Control	II	—
14	0.5	BN/GY	2268	Windshield Washer Relay Control	II	—
15	0.35	GN/VT	5199	Run/Crank Relay Coil Control	II	—
16	0.5	GY	91	Windshield Wiper Motor Relay Coil Control	II	—
17	0.5	BN/GN	196	Windshield Wiper Motor Park Switch Signal	II	—
18	0.5	WH/YE	5075	Current Sensor Signal	II	—
19	—	—	—	Not Occupied	—	—

K9 Body Control Module X4 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20	0.75	RD/BN	440	Battery Positive Voltage	III	—
21	0.5	BU/VT	5076	Current Sensor Control	II	—
22	0.35	VT/YE	5985	Accessory Wakeup Serial Data	II	—
23	0.5	WH/BU	5986	Serial Data Communication Enable	II	—
24	0.5	BN/GN	109	Hood Ajar Switch Signal	II	—
25	—	—	—	Not Occupied	—	—
26	0.5	BK	1650	Ground	II	—

K9 Body Control Module X5



2537271

Connector Part Information

Harness Type: Body
OEM Connector: 13576034
Service Connector: 13576034
Description: 26-Way F 0.64, 2.8 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	13575578	J-35616-35 (VT)	J-38125-553	Not Available	Not Available	Not Available	Not Available
II	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	Sumitomo 22	2	A

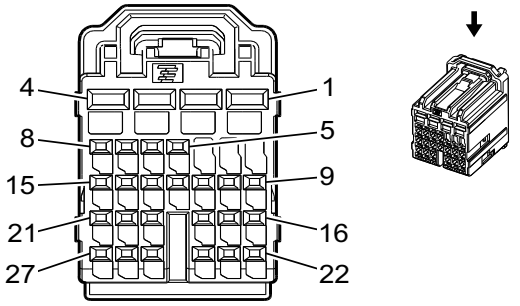
K9 Body Control Module X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY/YE	7542	Left Rear Stop Lamp Control	I	—
2	0.75	BU/WH	1314	Left Front Turn Signal Lamp Control	III	—
3	1.5	RD/WH	2740	Battery Positive Voltage	I	—
4	1.5	RD/VT	2640	Battery Positive Voltage	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	BK/VT	5077	Current Sensor Low Reference	II	—
7	0.5	BN/GY	2609	Right Rear Park Lamp Control	II	—
8	0.5	BU/WH	5186	Left Trailer Turn Signal Lamp Control	II	—
9 - 11	—	—	—	Not Occupied	—	—
12	0.5	WH/BU	6311	Cruise/ETC/TCC Brake Signal	II	—
13	0.5	BN/WH	1317	Fog Lamp Relay Control	II	—
14	0.5	VT/BN	300	Run Ignition 3 Voltage	II	—
15	—	—	—	Not Occupied	—	—
16	0.5	VT/YE	3267	Child Security Lock Relay Control	II	—
17	0.5	YE/GY	5187	Right Trailer Turn Signal Lamp Control	II	—
18	0.5	BN/VT	1969	Headlamp High Beam Relay Control	II	—
19	0.5	BN/WH	28	Horn Relay Control	II	—

K9 Body Control Module X5 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20 - 21	—	—	—	Not Occupied	—	—
22	0.5	BU	45	Park Lamp Relay Control	II	—
23	—	—	—	Not Occupied	—	—
24	0.5	WH/VT	860	Front Windshield Wiper Switch High Signal	II	—
25	—	—	—	Not Occupied	—	—
26	0.5	BU/BN	38	Backup Lamp Relay Control	II	—

K9 Body Control Module X6



2537272

Connector Part Information

Harness Type: Body
OEM Connector: 2098067-5
Service Connector: 13576035
Description: 27-Way F 0.64, 2.8 Series (PK)

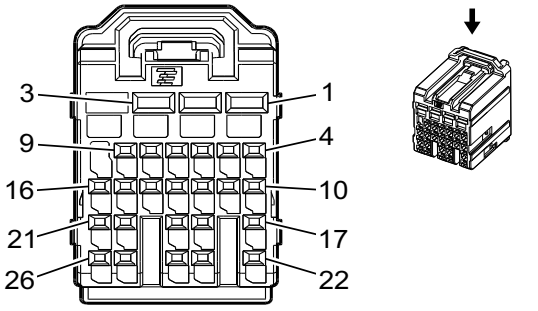
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575578	J-35616-35 (VT)	J-38125-553	Not Available	Not Available	Not Available	Not Available
II	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
III	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	Sumitomo 22	2	A

K9 Body Control Module X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GY	5911	Door Lock Actuator Lock Control 2	III	—
2	1.5	GY/GN	3271	Door Lock Control 2	I	—
3	1.5	BK	3150	Ground	I	—
4	0.75 1.5	BN/YE BN/YE	294 294	Door Lock Actuator Unlock Control Door Lock Actuator Unlock Control	III I	CREW CAB EXTENDED CAB
5 - 8	—	—	—	Not Occupied	—	—
9	0.5	GN/BU	6133	Local Interconnect Network Serial Data Bus 2	II	—
10	0.5	GN/YE	6134	Local Interconnect Network Serial Data Bus 3	II	—
11 - 15	—	—	—	Not Occupied	—	—
16	0.5	GN/BN	6132	Local Interconnect Network Serial Data Bus 1	II	—
17 - 23	—	—	—	Not Occupied	—	—
24	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
25	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
26	—	—	—	Not Occupied	—	—
27	0.35	GY	747	Left Rear Door Ajar Switch Signal	II	—

K9 Body Control Module X7



2537273

Connector Part Information

Harness Type: Body
OEM Connector: 2098067-6
Service Connector: 13576036
Description: 26-Way F 0.64, 2.8 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	13582297	J-35616-64B (LT BU)	J-38125-22	Not Available	Not Available	Not Available	Not Available
II	13582326	J-35616-35 (VT)	J-38125-553	8100-4444	Sumitomo 22	2	A

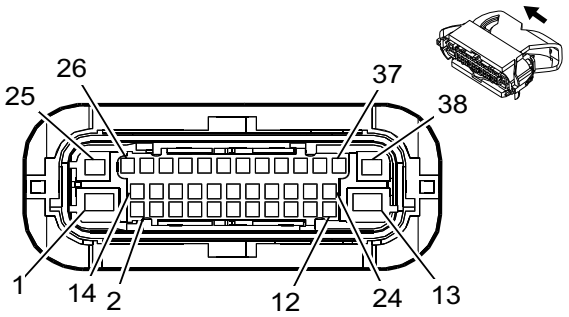
K9 Body Control Module X7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.75	WH/BN	6815	Inadvertent Power Control	II	—
3	0.75	GN/WH	24	Backup Lamp Control	II	—
4 - 5	—	—	—	Not Occupied	—	—
6	0.5	VT/BK	7553	Park Lock Solenoid Control	I	—
7	0.5	BN/WH	1429	Standing Lamp Relay Control	I	—
8	0.5	VT/WH	5065	Stop Lamp Relay Coil Control	I	—
9 - 10	—	—	—	Not Occupied	—	—
11	0.35	GY	748	Right Rear Door Ajar Switch Signal	I	—
12	0.35	BN/WH	3269	Child Security Lock Motor Status Signal Left Rear	I	—
13	0.5	WH/VT	5905	Key Capture/Column Lock Shift Position Signal	I	—
14	0.5	GY	158	Cargo Lamp Switch Signal	I	—
15	0.5	BU/VT	1134	Park Brake Switch Signal	I	—
16	0.5	WH/BU	3691	Trailer Brake Apply Signal	I	—
17	—	—	—	Not Occupied	—	—
18	0.35	GY/BK	3268	Child Security Lock Motor Status Signal Right Rear	I	—
19	0.35	GY	156	Courtesy Lamp Switch Signal	I	—
20	—	—	—	Not Occupied	—	—

K9 Body Control Module X7 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21	0.35	YE/VT	244	Passenger Door Lock Switch Lock Control	I	—
22	—	—	—	Not Occupied	—	—
23	0.5	GN	5060	Low Speed GMLAN Serial Data	I	—
24	0.35	BN/VT	245	Passenger Door Lock Switch Unlock Control	I	—
25 - 26	—	—	—	Not Occupied	—	—

K17 Electronic Brake Control Module



3240112

Connector Part Information

Harness Type: Chassis
OEM Connector: 13582125
Service Connector: 19303771
Description: 38-Way F 1.5 CTS, 2.8 MCP, 4.8 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	13575368	J-35616-35 (VT)	J-38125-557	1-968857-3	Lear 7	C	1
II	19301757	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	B	G
III	19301776	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

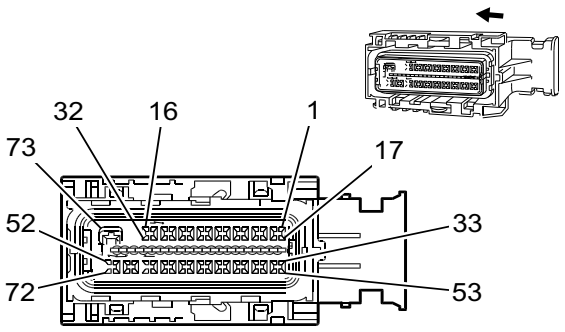
K17 Electronic Brake Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	4	RD/GY	1042	Battery Positive Voltage	II	—
2 - 3	—	—	—	Not Occupied	—	—
4	0.5	YE/VT	6030	Brake Vacuum Sensor Signal	III	—
5	—	—	—	Not Occupied	—	—
6	0.5	WH/BU	5986	Serial Data Communication Enable	III	—
7 - 8	—	—	—	Not Occupied	—	—
9	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	III	—
10	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	III	—
11	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	III	—
12	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	III	—
13	4	BK	550	Ground	II	—
14 - 15	—	—	—	Not Occupied	—	—
16	0.5	YE/RD	6031	Brake Vacuum Sensor 5V Reference	III	—
17	—	—	—	Not Occupied	—	—
18	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	III	—
19	0.5	BU/YE	6105	High Speed GMLAN Serial Data (+) 2	III	—
20	—	—	—	Not Occupied	—	—

K17 Electronic Brake Control Module (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21	0.5	GN/GY	333	Brake Fluid Level Sensor Signal	III	—
22	0.5	BK/YE	6032	Brake Vacuum Sensor Low Reference	III	—
23 - 24	—	—	—	Not Occupied	—	—
25	2.5	RD/YE	442	Battery Positive Voltage	I	—
26	0.5	YE	872	Wheel Speed Sensor Signal Right Front	III	—
27	0.5	GY/BN	7065	Wheel Speed Sensor Control Right Front	III	—
28	0.5	BN	6305	Brake Vacuum Switch Signal	III	—
29	0.5	GY/BK	7127	Wheel Speed Sensor Control Left Rear	III	—
30	0.5	BU	884	Wheel Speed Sensor Signal Left Rear	III	—
31 - 32	—	—	—	Not Occupied	—	—
33	0.5	VT	882	Wheel Speed Sensor Signal Right Rear	III	—
34	0.5	GY/YE	7128	Wheel Speed Sensor Control Right Rear	III	—
35	—	—	—	Not Occupied	—	—
36	0.5	GY/WH	7064	Wheel Speed Sensor Control Left Front	III	—
37	0.5	GY	830	Wheel Speed Sensor Signal Left Front	III	—
38	—	—	—	Not Occupied	—	—

K20 Engine Control Module X1 (LCV)



2470482

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0303
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	13579769	J-35616-4A (PU)	J-38125-11A	7116-4151-02	Yazaki 9	C	1

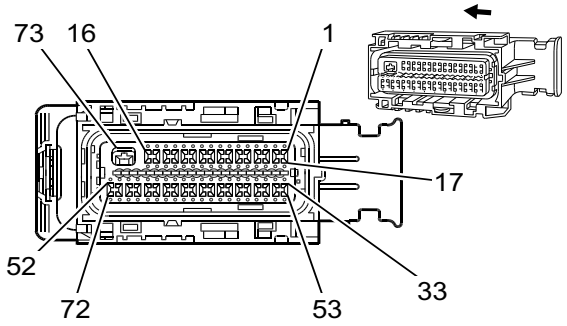
K20 Engine Control Module X1 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 6	—	—	—	Not Occupied	—	—
7	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	I	—
8	0.5	BU/YE	7493	High Speed GMLAN Serial Data (+)3	I	—
9	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
10	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
11	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	I	—
12	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	I	—
13	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	—
14	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	I	—
15	0.5	RD/WH	140	Battery Positive Voltage	I	—
16	0.75	VT/BU	5290	Powertrain Main Relay Fused Supply 1	I	—
17 - 24	—	—	—	Not Occupied	—	—
25	0.5	BK/YE	5382	Brake Position Sensor Low Reference	I	—
26	0.5	BK/GY	6110	Clutch Apply Sensor Low Reference	I	—
27	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	I	—
28	0.5	BK/BU	1271	Accelerator Pedal Position Low Reference 1	I	—
29 - 32	—	—	—	Not Occupied	—	—
33	0.5	GN/WH	1162	Accelerator Pedal Position Signal 2	I	—
34	0.5	GN/WH	492	Mass Air Flow Sensor Signal	I	—

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
35 - 36	—	—	—	Not Occupied	—	—
37	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	I	—
38 - 40	—	—	—	Not Occupied	—	—
41	0.5	WH/RD	5381	Brake Position Sensor 5V Reference	I	—
42	0.5	GY/RD	6109	Clutch Apply Sensor 5V Reference	I	—
43	—	—	—	Not Occupied	—	—
44	0.5	VT/GY	6386	Starter Enable Relay (PPEI 3) Control	I	—
45	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	I	—
46	0.5	YE/BK	3000	Coolant Temperature Sensor 2 Signal	I	—
47	0.5	BU/GY	636	Outside Ambient Air Temperature Sensor Signal	I	—
48	0.5	WH/BU	6289	Induction Air Temperature Sensor Signal	I	—
49	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	I	—
50	0.5	WH/BU	6311	Cruise/ETC/TCC Brake Signal	I	—
51	0.75	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—
52	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	I	—
53	—	—	—	Not Occupied	—	—
54	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	I	—
55 - 56	—	—	—	Not Occupied	—	—
57	0.5	GN	380	A/C Refrigerant Pressure Sensor Signal	I	—
58 - 59	—	—	—	Not Occupied	—	—
60	0.5	BN/GY	4008	Humidity Sensor Signal	I	—
61	0.5	WH/GN	5380	Brake Position Sensor Signal	I	—
62	0.5	YE	6111	Clutch Apply Sensor Signal	I	—
63	—	—	—	Not Occupied	—	—
64	0.5	GN/GY	465	Fuel Pump Primary Relay Control	I	—
65	0.5	WH	1310	EVAP Canister Vent Solenoid Control	I	—
66	—	—	—	Not Occupied	—	—
67	0.5	YE	5991	Powertrain Relay Coil Control	I	—
68	—	—	—	Not Occupied	—	—
69	0.5	BU	6814	Thermostat Engine Cool Control	I	—
70	—	—	—	Not Occupied	—	—
71	0.5	BN/WH	419	Check Engine Indicator Control	I	—
72	—	—	—	Not Occupied	—	—
73	1	VT/BU	5290	Powertrain Main Relay Fused Supply 1	II	—

K20 Engine Control Module X2 (LCV)



1673472

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0103
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	13579770	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

K20 Engine Control Module X2 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.5	BU	410	Engine Coolant Temperature Sensor Signal	I	—
3	—	—	—	Not Occupied	—	—
4	0.5	BN/RD	7445	Fuel Line Pressure Sensor 5V Reference	I	—
5	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
6	0.5	GY/YE	5297	Camshaft Position Exhaust Sensor Control 1	I	—
7	0.5	GY/BU	5300	Camshaft Position Intake Sensor Control 1	I	—
8 - 11	—	—	—	Not Occupied	—	—
12	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	I	—
13	0.5	BU/WH	3630	Throttle Position Sensor (SENT1) Signal	I	—
14	0.5	WH/RD	2705	Oil Pressure Sensor 5V Reference	I	—
15	0.5	VT/BU	6270	Crankshaft 60X Sensor 5V Reference	I	—
16 - 19	—	—	—	Not Occupied	—	—
20	0.5	BU/WH	7446	Fuel Line Pressure Sensor Signal	I	—
21	0.5	BK/GN	469	Manifold Absolute Pressure Sensor Low Reference	I	—
22	0.5	BK/GY	5296	Camshaft Position Exhaust Sensor Low Reference 1	I	—

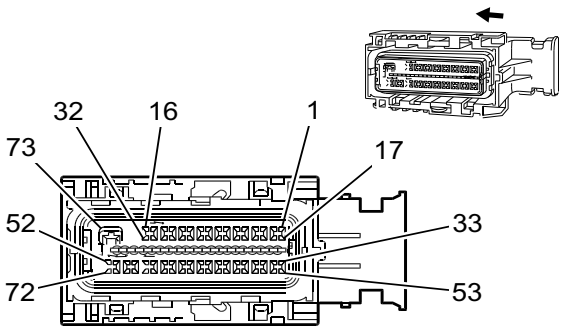
K20 Engine Control Module X2 (LCV) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
23	0.5	BK/GN	5301	Camshaft Position Intake Sensor Low Reference 1	I	—
24 - 27	—	—	—	Not Occupied	—	—
28	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	I	—
29	0.5	YE/BN	331	Oil Pressure Sensor Signal	I	—
30	0.5	BK/VT	2755	Oil Pressure Sensor Low Reference	I	—
31	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	I	—
32	—	—	—	Not Occupied	—	—
33	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor 1	I	—
34	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	—
35	—	—	—	Not Occupied	—	—
36	0.5	BK/VT	6754	Cam Phaser X Low Reference	I	—
37	0.5	BK/BN	6753	Cam Phaser W Low Reference	I	—
38	0.5	VT/BK	5273	Camshaft Position Exhaust Sensor 1	I	—
39	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	I	—
40	0.5	GN	6271	Crankshaft 60X Sensor Signal	I	—
41 - 42	—	—	—	Not Occupied	—	—
43	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	—
44	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	—
45	0.5	GN/BU	2123	Ignition Control 3	I	—
46	0.5	BU/VT	2121	Ignition Control 1	I	—
47	—	—	—	Not Occupied	—	—
48	0.75	BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	—
49	0.75	GY/BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	—
50	0.75	GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	—
51	0.75	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	—
52	0.5	YE	581	Throttle Actuator Control Open	I	—
53	0.5	VT/GY	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor 1	I	—
54	0.5	VT/BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	—
55	—	—	—	Not Occupied	—	—
56	0.5	GY/BU	5282	Camshaft Phaser Exhaust Solenoid 1	I	—
57	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	I	—
58 - 59	—	—	—	Not Occupied	—	—
60	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	—
61	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 1	I	—
62 - 63	—	—	—	Not Occupied	—	—
64	0.5	BU	179	Oil Pump Command Signal	I	—
65	0.5	BU/WH	2122	Ignition Control 2	I	—
66	0.5	YE/BU	2124	Ignition Control 4	I	—

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
67	—	—	—	Not Occupied	—	—
68	0.75	BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	—
69	0.75	BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	—
70	0.75	GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	—
71	0.75	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	—
72	0.5	BN/WH	582	Throttle Actuator Control Close	I	—
73	2.5	BK/WH	1451	Signal Ground	II	—

K20 Engine Control Module X3 (LCV)



2470482

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0303
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	2	5

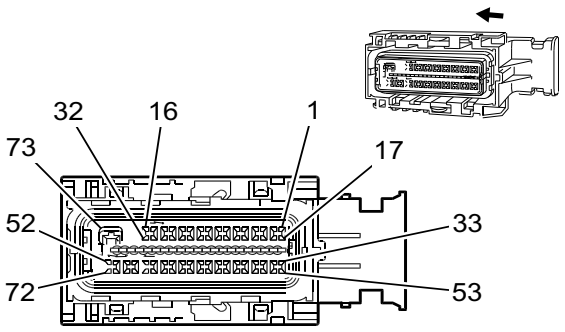
K20 Engine Control Module X3 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	—	—	—	Not Occupied	—	—
5	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	I	—
6	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	I	—
7	0.5	BK/L-BU	1271	Accelerator Pedal Position Low Reference 1	I	—
8	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	I	—
9	0.5	BK/YE	5382	Brake Position Sensor Low Reference	I	—
10 - 11	—	—	—	Not Occupied	—	—
12	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
13	0.5	WH/L-BU	6311	Cruise/ETC/TCC Brake Signal	I	—
14	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	I	—
15	0.5	YE	5991	Powertrain Relay Coil Control	I	—
16	0.5	BN/WH	419	Check Engine Indicator Control	I	—
17	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	I	—
18 - 20	—	—	—	Not Occupied	—	—
21	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	I	—
22	0.5	L-GN/WH	1162	Accelerator Pedal Position Signal 2	I	—
23	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	I	—
24	0.5	L-BU/BK	7493	High Speed GMLAN Serial Data (+)3	I	—
25	0.5	WH/RD	5381	Brake Position Sensor 5V Reference	I	—

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
26	0.5	WH/L-GN	5380	Brake Position Sensor Signal	I	—
27	—	—	—	Not Occupied	—	—
28	0.5	L-BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
29	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	I	—
30	0.5	L-GN/WH	492	Mass Air Flow Sensor Signal	I	—
31 - 37	—	—	—	Not Occupied	—	—
38	0.5	L-BU/WH	890	Fuel Tank Pressure Sensor Signal	I	—
39	0.5	BN/GY	4008	Humidity Sensor Signal	I	—
40 - 43	—	—	—	Not Occupied	—	—
44	0.5	BK/WH	2151	Signal Ground	I	—
45 - 46	—	—	—	Not Occupied	—	—
47	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	I	—
48	—	—	—	Not Occupied	—	—
49	0.5	VT/L-BU	5292	Powertrain Main Relay Fused Supply 3	I	—
50	0.5	VT/L-BU	5291	Powertrain Main Relay Fused Supply 2	I	—
51	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	—
52	0.5	RD/WH	140	Battery Positive Voltage	I	—
53	—	—	—	Not Occupied	—	—
54	0.5	WH	1310	EVAP Canister Vent Solenoid Control	I	—
55 - 63	—	—	—	Not Occupied	—	—
64	0.5	L-BU/GY	636	Outside Ambient Air Temperature Sensor Signal	I	—
65 - 66	—	—	—	Not Occupied	—	—
67	0.5	L-GN	380	A/C Refrigerant Pressure Sensor Signal	I	—
68	—	—	—	Not Occupied	—	—
69	0.5	GN/GY	465	Fuel Pump Primary Relay Control	I	—
70	0.5	YE/BK	625	Starter Enable Relay Control	I	—
71	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	I	—
72	0.5	VT/L-BU	5290	Powertrain Main Relay Fused Supply 1	I	—
73	2	VT/L-BU	5290	Powertrain Main Relay Fused Supply 1	II	—

K20 Engine Control Module X1 (LGZ)



2470482

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0303
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	2	5

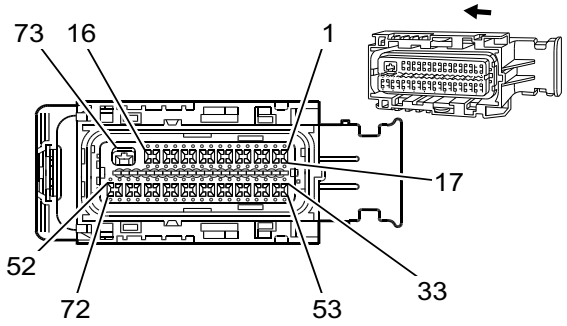
K20 Engine Control Module X1 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 4	—	—	—	Not Occupied	—	—
5	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	I	—
6	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	I	—
7	0.5	BK/BU	1271	Accelerator Pedal Position Low Reference 1	I	—
8	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	I	—
9	0.5	BK/YE	5382	Brake Position Sensor Low Reference	I	—
10 - 11	—	—	—	Not Occupied	—	—
12	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
13	0.5	WH/BU	6311	Cruise/ETC/TCC Brake Signal	I	—
14	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	I	—
15	0.5	YE	5991	Powertrain Relay Coil Control	I	—
16	0.5	BN/WH	419	Check Engine Indicator Control	I	—
17	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	I	—
18 - 20	—	—	—	Not Occupied	—	—
21	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	I	—
22	0.5	GN/WH	1162	Accelerator Pedal Position Signal 2	I	—
23	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	I	—
24	0.5	BU/BK	7493	High Speed GMLAN Serial Data (+)3	I	—
25	0.5	WH/RD	5381	Brake Position Sensor 5V Reference	I	—

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
26	0.5	WH/GN	5380	Brake Position Sensor Signal	I	—
27	—	—	—	Not Occupied	—	—
28	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
29	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	I	—
30	0.5	GN/WH	492	Mass Air Flow Sensor Signal	I	—
31 - 37	—	—	—	Not Occupied	—	—
38	0.5	BU/WH	890	Fuel Tank Pressure Sensor Signal	I	—
39	0.5	BN/GY	4008	Humidity Sensor Signal	I	—
40 - 43	—	—	—	Not Occupied	—	—
44	0.5	BK/WH	2151	Signal Ground	I	—
45 - 46	—	—	—	Not Occupied	—	—
47	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	I	—
48	—	—	—	Not Occupied	—	—
49	0.5	VT/BU	5292	Powertrain Main Relay Fused Supply 3	I	—
50	0.5	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—
51	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	—
52	0.5	RD/WH	140	Battery Positive Voltage	I	—
53	—	—	—	Not Occupied	—	—
54	0.5	WH	1310	EVAP Canister Vent Solenoid Control	I	—
55 - 63	—	—	—	Not Occupied	—	—
64	0.5	BU/GY	636	Outside Ambient Air Temperature Sensor Signal	I	—
65 - 66	—	—	—	Not Occupied	—	—
67	0.5	GN	380	A/C Refrigerant Pressure Sensor Signal	I	—
68	—	—	—	Not Occupied	—	—
69	0.5	GN/GY	465	Fuel Pump Primary Relay Control	I	—
70	0.5	YE/BK	625	Starter Enable Relay Control	I	—
71	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	I	—
72	0.5	VT/BU	5290	Powertrain Main Relay Fused Supply 1	I	—
73	2	VT/BU	5290	Powertrain Main Relay Fused Supply 1	II	—

K20 Engine Control Module X2 (LGZ)



1673472

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0103
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	13579770	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

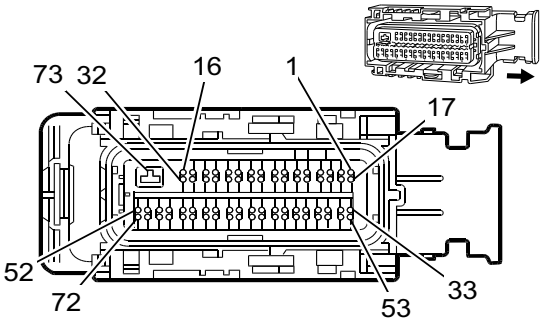
K20 Engine Control Module X2 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	—
2	0.5	WH/BN	3223	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 2	I	—
3 - 6	—	—	—	Not Occupied	—	—
7	0.5	GY	3890	Aero Shutter Control 2	I	—
8	—	—	—	Not Occupied	—	—
9	0.5	BN/GN	1174	Oil Level Switch Signal	I	—
10	—	—	—	Not Occupied	—	—
11	0.5	YE/BN	331	Oil Pressure Sensor Signal	I	—
12	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	—
13 - 16	—	—	—	Not Occupied	—	—
17	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 1	I	—
18	0.5	GN/YE	3212	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 1	I	—
19 - 21	—	—	—	Not Occupied	—	—
22	0.5	BU/VT	1589	Primary Fuel Level Sensor Signal	I	—
23 - 26	—	—	—	Not Occupied	—	—
27	0.5	WH/RD	2705	Oil Pressure Sensor 5V Reference	I	—

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
28	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply 5	I	—
29 - 34	—	—	—	Not Occupied	—	—
35	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor 1	I	—
36	0.5	YE/WH	3211	Heated Oxygen Sensor Low Signal Bank 2 Sensor 1	I	—
37	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	—
38	0.5	YE/BU	3221	Heated Oxygen Sensor Low Signal Bank 2 Sensor 2	I	—
39	0.5	BK/YE	1716	Knock Sensor Low Reference 1	I	—
40	0.5	BK/GY	2303	Knock Sensor Low Reference 2	I	—
41	—	—	—	Not Occupied	—	—
42	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	—
43	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	—
44	—	—	—	Not Occupied	—	—
45	0.5	BU/RD	1688	5V Reference	I	—
46	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5V Reference	I	—
47	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
48	0.5	BK/GN	469	Manifold Absolute Pressure Sensor Low Reference	I	—
49 - 50	—	—	—	Not Occupied	—	—
51	0.5	BK/VT	2755	Oil Pressure Sensor Low Reference	I	—
52	0.5	BN/WH	582	Throttle Actuator Control Close	I	—
53 - 54	—	—	—	Not Occupied	—	—
55	0.5	VT/GY	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor 1	I	—
56	0.5	VT/WH	3210	Heated Oxygen Sensor High Signal Bank 2 Sensor 1	I	—
57	0.5	VT/BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	—
58	0.5	VT/GN	3220	Heated Oxygen Sensor High Signal Bank 2 Sensor 2	I	—
59	0.5	VT/GY	496	Knock Sensor Signal 1	I	—
60	0.5	WH/GY	1876	Knock Sensor Signal 2	I	—
61 - 62	—	—	—	Not Occupied	—	—
63	0.5	BK/VT	2760	Intake Air Temperature Sensor Low Reference	I	—
64	—	—	—	Not Occupied	—	—
65	0.5	VT/WH	821	Vehicle Speed Sensor Signal	I	—
66	0.5	BK/GN	822	Vehicle Speed Sensor Low Reference	I	—
67	0.5	GN/WH	432	Manifold Absolute Pressure Sensor Signal	I	—
68 - 69	—	—	—	Not Occupied	—	—
70	0.5	WH/BU	6289	Induction Air Temperature Sensor Signal	I	—
71	—	—	—	Not Occupied	—	—
72	0.5	YE	581	Throttle Actuator Control Open	I	—
73	2.5	BK/WH	151	Signal Ground	II	—

K20 Engine Control Module X3 (LGZ)



1590596

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0203
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	13579770	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

K20 Engine Control Module X3 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN	5492	Cylinder Shutoff Solenoid Control 2	I	—
2	0.5	BU	5491	Cylinder Shutoff Solenoid Control 1	I	—
3	0.5	GN/BN	5298	Camshaft Position Exhaust Sensor Control 2	I	—
4	0.5	YE	5276	Camshaft Position Intake Sensor 2	I	—
5	0.5	WH/BU	5302	Camshaft Position Intake Sensor Control 2	I	—
6	0.5	VT/BU	6270	Crankshaft 60X Sensor 5V Reference	I	—
7	0.5	GN	6271	Crankshaft 60X Sensor Signal	I	—
8	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	I	—
9 - 11	—	—	—	Not Occupied	—	—
12	0.5	BN/BU	2126	Ignition Control 6	I	—
13	0.5	BU/GY	2125	Ignition Control 5	I	—
14	0.5	YE/BU	2124	Ignition Control 4	I	—
15	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	—
16	0.5	YE	7301	High Pressure Fuel Pump Actuator High - Control	I	—
17	0.5	GY/GN	908	—	I	LGZ
18	0.5	YE/GN	4321	Park Phaser Lock Control	I	—
19	0.5	BK/BN	5299	Camshaft Position Exhaust Sensor Low Reference 2	I	—
20	0.5	VT/BU	5274	Camshaft Position Exhaust Sensor 2	I	—

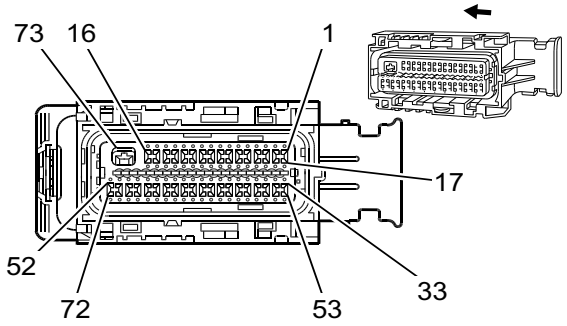
K20 Engine Control Module X3 (LGZ) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21	0.5	BK/VT	5303	Camshaft Position Intake Sensor Low Reference 2	I	—
22	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	I	—
23	0.5	BU/WH	3630	Throttle Position Sensor (SENT1) Signal	I	—
24	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	I	—
25	—	—	—	Not Occupied	—	—
26	0.5	BU/WH	225	Generator Turn On Signal	I	—
27	—	—	—	Not Occupied	—	—
28	0.5	GN/BU	2123	Ignition Control 3	I	—
29	0.5	BU/WH	2122	Ignition Control 2	I	—
30	0.5	BU/VT	2121	Ignition Control 1	I	—
31	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	—
32	0.5	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control	I	—
33	0.5	GN/BU	428	EVAP Canister Purge Solenoid Control	I	—
34	0.5	BU	179	Oil Pump Command Signal	I	—
35	0.5	GY/YE	5297	Camshaft Position Exhaust Sensor Control 1	I	—
36	0.5	VT/BK	5273	Camshaft Position Exhaust Sensor 1	I	—
37	0.5	BK/GY	5296	Camshaft Position Exhaust Sensor Low Reference 1	I	—
38	0.5	BU	410	Engine Coolant Temperature Sensor Signal	I	—
39	0.5	BN/RD	7445	Fuel Line Pressure Sensor 5V Reference	I	—
40	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	I	—
41	0.5	BK/GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—
42	—	—	—	Not Occupied	—	—
43	0.5	BK/BU	6755	Cam Phaser Y Low Reference	I	—
44	0.5	GN	5272	Camshaft Phaser Intake Solenoid 2	I	—
45	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	I	—
46	0.5	BK/BN	6753	Cam Phaser W Low Reference	I	—
47	0.75	WH/GN	4805	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	I	—
48	0.75	BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	—
49	0.75	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	—
50	0.75	GY/BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	—
51	0.75	VT/GN	4806	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	I	—
52	0.75	GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	—
53 - 54	—	—	—	Not Occupied	—	—
55	0.5	GY/BU	5300	Camshaft Position Intake Sensor Control 1	I	—
56	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	I	—
57	0.5	BK/GN	5301	Camshaft Position Intake Sensor Low Reference 1	I	—
58	—	—	—	Not Occupied	—	—
59	0.5	BU/WH	7446	Fuel Line Pressure Sensor Signal	I	—

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
60	0.5	BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	—
61	0.5	GY	23	Generator Field Duty Cycle Signal	I	—
62	—	—	—	Not Occupied	—	—
63	0.5	BK/GY	6756	Cam Phaser Z Low Reference	I	—
64	0.5	GN/BN	5283	Camshaft Phaser Exhaust Solenoid 2	I	—
65	0.5	GY/BU	5282	Camshaft Phaser Exhaust Solenoid 1	I	—
66	0.5	BK/VT	6754	Cam Phaser X Low Reference	I	—
67	0.75	GN/WH	4905	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	I	—
68	0.75	BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	—
69	0.75	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	—
70	0.75	BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	—
71	0.75	VT/GY	4906	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	I	—
72	0.75	GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	—
73	2.5	BK/WH	151	Signal Ground	II	—

K20 Engine Control Module X1 (LGZ+ZR2)



1673472

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0103
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	13579770	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

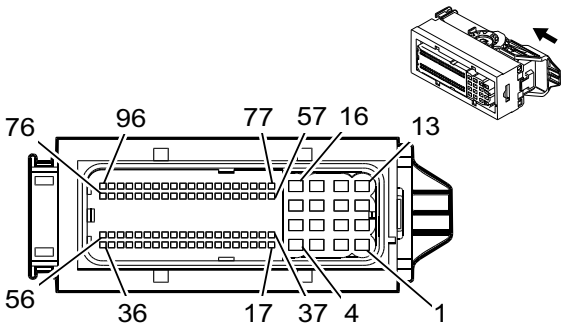
K20 Engine Control Module X1 (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/WH	3122	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 2	I	—
2	0.5	WH/BN	3223	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 2	I	—
3 - 6	—	—	—	Not Occupied	—	—
7	0.5	GY	3890	Aero Shutter Control 2	I	—
8	—	—	—	Not Occupied	—	—
9	0.5	BN/L-GN	1174	Oil Level Switch Signal	I	—
10	—	—	—	Not Occupied	—	—
11	0.5	YE/BN	331	Oil Pressure Sensor Signal	I	—
12	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference	I	—
13 - 16	—	—	—	Not Occupied	—	—
17	0.5	GY/WH	3113	Heated Oxygen Sensor Heater Low Control Bank 1 Sensor 1	I	—
18	0.5	L-GN/YE	3212	Heated Oxygen Sensor Heater Low Control Bank 2 Sensor 1	I	—
19 - 21	—	—	—	Not Occupied	—	—
22	0.5	L-BU/VT	1589	Primary Fuel Level Sensor Signal	I	—
23 - 26	—	—	—	Not Occupied	—	—
27	0.5	WH/RD	2705	Oil Pressure Sensor 5V Reference	I	—

K20 Engine Control Module X1 (LGZ+ZR2) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
28	0.5	VT/L-BU	5294	Powertrain Main Relay Fused Supply 5	I	—
29 - 34	—	—	—	Not Occupied	—	—
35	0.5	WH/BK	3111	Heated Oxygen Sensor Low Signal Bank 1 Sensor 1	I	—
36	0.5	YE/WH	3211	Heated Oxygen Sensor Low Signal Bank 2 Sensor 1	I	—
37	0.5	WH/YE	3121	Heated Oxygen Sensor Low Signal Bank 1 Sensor 2	I	—
38	0.5	YE/L-BU	3221	Heated Oxygen Sensor Low Signal Bank 2 Sensor 2	I	—
39	0.5	BK/YE	1716	Knock Sensor Low Reference 1	I	—
40	0.5	BK/GY	2303	Knock Sensor Low Reference 2	I	—
41	—	—	—	Not Occupied	—	—
42	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	—
43	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	—
44	—	—	—	Not Occupied	—	—
45	0.5	L-BU/RD	1688	5V Reference	I	—
46	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5V Reference	I	—
47	0.5	GY/RD	2704	Manifold Absolute Pressure Sensor 5V Reference	I	—
48	0.5	BK/L-GN	469	Manifold Absolute Pressure Sensor Low Reference	I	—
49 - 50	—	—	—	Not Occupied	—	—
51	0.5	BK/VT	2755	Oil Pressure Sensor Low Reference	I	—
52	0.5	BN/WH	582	Throttle Actuator Control Close	I	—
53 - 54	—	—	—	Not Occupied	—	—
55	0.5	VT/GY	3110	Heated Oxygen Sensor High Signal Bank 1 Sensor 1	I	—
56	0.5	VT/WH	3210	Heated Oxygen Sensor High Signal Bank 2 Sensor 1	I	—
57	0.5	VT/L-BU	3120	Heated Oxygen Sensor High Signal Bank 1 Sensor 2	I	—
58	0.5	VT/L-GN	3220	Heated Oxygen Sensor High Signal Bank 2 Sensor 2	I	—
59	0.5	VT/GY	496	Knock Sensor Signal 1	I	—
60	0.5	WH/GY	1876	Knock Sensor Signal 2	I	—
61 - 62	—	—	—	Not Occupied	—	—
63	0.5	BK/VT	2760	Intake Air Temperature Sensor Low Reference	I	—
64	—	—	—	Not Occupied	—	—
65	0.5	VT/WH	821	Vehicle Speed Sensor Signal	I	—
66	0.5	BK/L-GN	822	Vehicle Speed Sensor Low Reference	I	—
67	0.5	L-GN/WH	432	Manifold Absolute Pressure Sensor Signal	I	—
68 - 69	—	—	—	Not Occupied	—	—
70	0.5	WH/L-BU	6289	Induction Air Temperature Sensor Signal	I	—
71	—	—	—	Not Occupied	—	—
72	0.5	YE	581	Throttle Actuator Control Open	I	—
73	2.5	BK/WH	151	Signal Ground	II	—

K20 Engine Control Module X2 (LGZ+ZR2)



4115094

Connector Part Information

Harness Type: Engine
OEM Connector: 35059745
Service Connector: 19354404
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 (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	III	—
2	1.5	GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	III	—
3	1.5	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	BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	III	—
6	1.5	GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	III	—
7	1.5	GY/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/GN	1583	Glow Plug Control 3	II	—

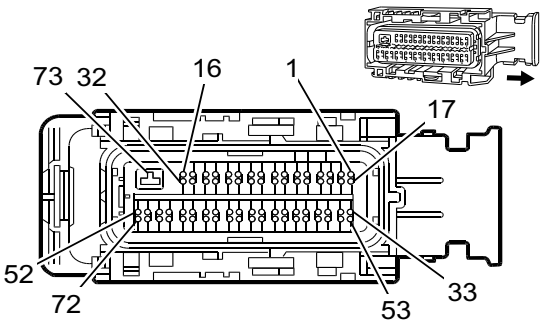
K20 Engine Control Module X2 (LGZ+ZR2) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
16	2	GY/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	7348	Induction Air Temperature Sensor 2 Signal	I	—
27	0.5	BN/GY	7072	Sensor Fuel Temperature 1 Signal	I	—
28 - 29	—	—	—	Not Occupied	—	—
30	0.5	BU	410	Engine Coolant Temperature Sensor Signal	I	—
31	0.5	BN	3681	Charge Air Cooler Outlet Temperature Sensor Signal	I	—
32	0.5	GN	3683	Charge Air Cooler Inlet Temperature Sensor Signal	I	—
33	—	—	—	Not Occupied	—	—
34	0.5	BN	25	Charge Indicator Control	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/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/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	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/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	0.5	BN/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	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	0.5	GY	23	Generator Field Duty Cycle Signal	I	—
68	—	—	—	Not Occupied	—	—
69	0.5	BK/GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—

K20 Engine Control Module X2 (LGZ+ZR2) (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/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/GN	469	Manifold Absolute Pressure Sensor Low Reference	I	—
81	0.5	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/BU	6270	Crankshaft 60X Sensor 5V Reference	I	—
84	0.5	GN	6271	Crankshaft 60X Sensor Signal	I	—
85	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	I	—
86	0.5	BN/GN	1174	Oil Level Switch Signal	I	—
87	—	—	—	Not Occupied	—	—
88	0.5	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/BU	3231	Exhaust Gas Recirculation Cooler Bypass Solenoid Control	I	—
95	0.5	GY/BU	3230	Exhaust Gas Recirculation Cooler Bypass Solenoid Control	I	—
96	0.5	BU/WH	2530	Fuel Rail Pressure Solenoid Control	I	—

K20 Engine Control Module X3 (LGZ+ZR2)



1590596

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0203
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	13579770	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

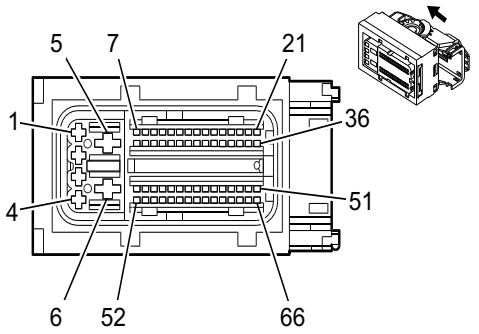
K20 Engine Control Module X3 (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 3	—	—	—	Not Occupied	—	—
4	0.5	GN/BU	428	EVAP Canister Purge Solenoid Control	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	I	—
7	—	—	—	Not Occupied	—	—
8	0.5	YE/RD	2709	Fuel Tank Pressure Sensor 5V Reference	I	—
9 - 10	—	—	—	Not Occupied	—	—
11	0.5	BU/RD	1688	5V Reference	I	—
12 - 13	—	—	—	Not Occupied	—	—
14	0.5	WH/RD	3201	Throttle Inlet Absolute Pressure Sensor 5V Reference	I	—
15	—	—	—	Not Occupied	—	—
16	0.5	VT/BU	5294	Powertrain Main Relay Fused Supply 5	I	—
17	—	—	—	Not Occupied	—	—
18	0.5	BU/WH	225	Generator Turn On Signal	I	—
19	0.5	GY	23	Generator Field Duty Cycle Signal	I	—
20	0.5	BK/GN	6281	Fuel Level Sensor Low Reference	I	—
21	0.5	BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	—
22	0.5	BK/GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—

K20 Engine Control Module X3 (LGZ+ZR2) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
23 - 26	—	—	—	Not Occupied	—	—
27	0.5	BK/GN	822	Vehicle Speed Sensor Low Reference	I	—
28 - 39	—	—	—	Not Occupied	—	—
40	0.5	GN/WH	432	Manifold Absolute Pressure Sensor Signal	I	—
41	0.5	BN/GN	1174	Oil Level Switch Signal	I	—
42	—	—	—	Not Occupied	—	—
43	0.5	BU/VT	1589	Primary Fuel Level Sensor Signal	I	—
44 - 45	—	—	—	Not Occupied	—	—
46	0.5	YE/WH	3200	Throttle Inlet Absolute Pressure Sensor Signal	I	—
47 - 51	—	—	—	Not Occupied	—	—
52	0.5	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control	I	—
53 - 54	—	—	—	Not Occupied	—	—
55	0.5	GY	3890	Aero Shutter Control 2	I	—
56 - 58	—	—	—	Not Occupied	—	—
59	0.5	BK/GY	2303	Knock Sensor Low Reference 2	I	—
60	0.5	WH/GY	1876	Knock Sensor Signal 2	I	—
61	0.5	BK/YE	1716	Knock Sensor Low Reference 1	I	—
62	0.5	VT/GY	496	Knock Sensor Signal 1	I	—
63	0.5	VT/WH	821	Vehicle Speed Sensor Signal	I	—
64 - 66	—	—	—	Not Occupied	—	—
67	0.5	GN/WH	5007	Reverse Switch Signal	I	—
68	0.5	BU/WH	890	Fuel Tank Pressure Sensor Signal	I	—
69 - 71	—	—	—	Not Occupied	—	—
72	0.5	YE	7301	High Pressure Fuel Pump Actuator High - Control	I	—
73	2.5	BK/WH	1451	Signal Ground	II	—

K20 Engine Control Module X1 (LWN)



2498868

Connector Part Information

Harness Type: Engine
OEM Connector: 13647470
Service Connector: 19332707
Description: 66-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	13579752	J-35616-4A (PU)	J-38125-36	4-964286-1	Lear 16	E	1
II	13579752	J-35616-4A (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
III	13584448	J-35616-64B (LT BU)	J-38125-12A	1719532-5	Lear 7	J	J
IV	13584529	J-35616-42 (RD)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
V	13584530	J-35616-4A (PU)	J-38125-36	4-964273-1	Yazaki 15	C	5
VI	13584530	J-35616-4A (PU)	J-38125-36	4-964273-1	Yazaki 15	E	1

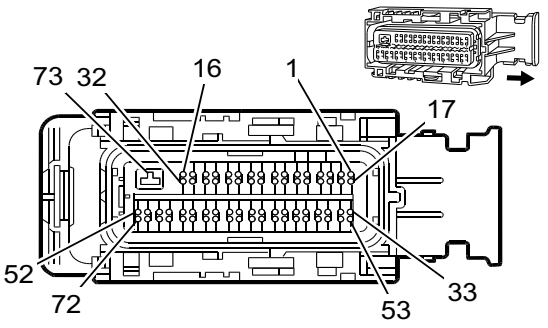
K20 Engine Control Module X1 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	VT/BU	5290	Powertrain Main Relay Fused Supply 1	V	—
2	0.75	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—
3	1.5	VT/BU	5292	Powertrain Main Relay Fused Supply 3	VI	—
4	0.5	RD/WH	140	Battery Positive Voltage	II	—
5	6	BN/BU	104	Glow Plug Control	IV	—
6	6	BK/WH	451	Signal Ground	IV	—
7	0.5	VT/YE	5985	Accessory Wakeup Serial Data	III	—
8 - 10	—	—	—	Not Occupied	—	—
11	0.5	BU/YE	6861	Water In Fuel Sensor Signal	III	—
12	—	—	—	Not Occupied	—	—
13	0.5	WH/RD	1164	Accelerator Pedal Position 5V Reference 1	III	—
14	0.5	BN/RD	1274	Accelerator Pedal Position 5V Reference 2	III	—

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
15	0.5	GN/WH	1162	Accelerator Pedal Position Signal 2	III	—
16	0.5	BK/VT	1272	Accelerator Pedal Position Low Reference 2	III	—
17	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	III	—
18	0.5	BN/WH	419	Check Engine Indicator Control	III	—
19	0.5	GN/BN	507	Wait To Start Indicator Control	III	—
20	—	—	—	Not Occupied	—	—
21	0.5	YE	2928	Fuel Metering Valve High Control	III	—
22	0.5	VT/GY	139	Run/Crank Ignition 1 Voltage	III	—
23	0.5	WH/BU	6311	Cruise/ETC/TCC Brake Signal	III	—
24	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	III	—
25	0.5	GN/WH	492	Mass Air Flow Sensor Signal	III	—
26	0.5	BU/VT	2364	Cooling Fan Speed Signal	III	—
27	0.5	BK/BU	1271	Accelerator Pedal Position Low Reference 1	III	—
28	0.5	YE/WH	1161	Accelerator Pedal Position Signal 1	III	—
29	0.5	BU/RD	1688	5V Reference	III	—
30	0.5	VT/WH	821	Vehicle Speed Sensor Signal	III	—
31	0.5	BK/GN	822	Vehicle Speed Sensor Low Reference	III	—
32	—	—	—	Not Occupied	—	—
33	0.5	WH/GY	459	A/C Compressor Clutch Relay Control	III	—
34 - 35	—	—	—	Not Occupied	—	—
36	0.5	BN/BK	2929	Fuel Metering Valve Low Control	III	—
37 - 38	—	—	—	Not Occupied	—	—
39	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	III	—
40	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	III	—
41 - 42	—	—	—	Not Occupied	—	—
43	0.5	BK/YE	5382	Brake Position Sensor Low Reference	III	—
44	0.5	WH/RD	5381	Brake Position Sensor 5V Reference	III	—
45	0.5	WH/BU	6289	Induction Air Temperature Sensor Signal	III	—
46	0.5	BN/RD	2700	A/C Pressure Sensor 5V Reference	III	—
47	0.5	GN	380	A/C Refrigerant Pressure Sensor Signal	III	—
48	0.5	BK/BN	5514	A/C Refrigerant Pressure Sensor Low Reference	III	—
49	—	—	—	Not Occupied	—	—
50	0.5	GN/GY	465	Fuel Pump Primary Relay Control	III	—
51	0.5	YE	5991	Powertrain Relay Coil Control	III	—
52 - 53	—	—	—	Not Occupied	—	—
54	0.5	BU/BN	4498	High Speed GMLAN Serial Data (+) 7	III	—
55	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	III	—
56 - 58	—	—	—	Not Occupied	—	—
59	0.5	WH/GN	5380	Brake Position Sensor Signal	III	—
60	0.5	BK/VT	2760	Intake Air Temperature Sensor Low Reference	III	—
61 - 63	—	—	—	Not Occupied	—	—
64	0.5	VT/BN	2927	Hydrocarbon Injector Low Control	III	—
65	—	—	—	Not Occupied	—	—
66	0.5	VT/GY	6386	Starter Enable Relay (PPEI 3) Control	III	—

K20 Engine Control Module X2 (LWN)



1590596

Connector Part Information

Harness Type: Engine
OEM Connector: 34566-0203
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	13579770	J-35616-4A (PU)	J-38125-11A	7116-4152-02	Yazaki 9	A	5

K20 Engine Control Module X2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	5492	Cylinder Shutoff Solenoid Control 2	I	—
2	0.5	L-BU	5491	Cylinder Shutoff Solenoid Control 1	I	—
3	0.5	L-GN/BN	5298	Camshaft Position Exhaust Sensor Control 2	I	—
4	0.5	YE	5276	Camshaft Position Intake Sensor 2	I	—
5	0.5	WH/L-BU	5302	Camshaft Position Intake Sensor Control 2	I	—
6	0.5	VT/L-BU	6270	Crankshaft 60X Sensor 5V Reference	I	—
7	0.5	L-GN	6271	Crankshaft 60X Sensor Signal	I	—
8	0.5	BN/RD	2701	Throttle Position Sensor 5V Reference	I	—
9 - 11	—	—	—	Not Occupied	—	—
12	0.5	BN/L-BU	2126	Ignition Control 6	I	—
13	0.5	L-BU/GY	2125	Ignition Control 5	I	—
14	0.5	YE/L-BU	2124	Ignition Control 4	I	—
15	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	—
16	0.5	YE	7301	High Pressure Fuel Pump Actuator High - Control	I	—
17	0.5	GY/L-GN	587	Skip/Shift Solenoid Control	I	—
18	0.5	YE/L-GN	4321	Park Phaser Lock Control	I	—
19	0.5	BK/BN	5299	Camshaft Position Exhaust Sensor Low Reference 2	I	—
20	0.5	VT/L-BU	5274	Camshaft Position Exhaust Sensor 2	I	—

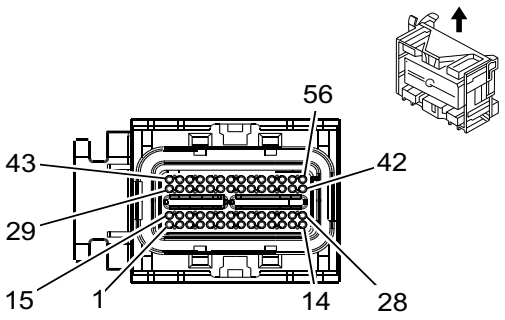
K20 Engine Control Module X2 (LWN) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
21	0.5	BK/VT	5303	Camshaft Position Intake Sensor Low Reference 2	I	—
22	0.5	BK/VT	6272	Crankshaft 60X Sensor Low Reference	I	—
23	0.5	L-BU/WH	3630	Throttle Position Sensor (SENT1) Signal	I	—
24	0.5	BK/BN	2752	Throttle Position Sensor Low Reference	I	—
25	—	—	—	Not Occupied	—	—
26	0.5	L-BU/WH	225	Generator Turn On Signal	I	—
27	—	—	—	Not Occupied	—	—
28	0.5	L-GN/L-BU	2123	Ignition Control 3	I	—
29	0.5	L-BU/WH	2122	Ignition Control 2	I	—
30	0.5	L-BU/VT	2121	Ignition Control 1	I	—
31	0.5	BK/L-BU	2129	Ignition Control Low Reference Bank 1	I	—
32	0.5	VT/BK	7300	High Pressure Fuel Pump Actuator Low - Control	I	—
33	0.5	L-GN/L-BU	428	EVAP Canister Purge Solenoid Control	I	—
34	0.5	L-BU	179	Oil Pump Command Signal	I	—
35	0.5	GY/YE	5297	Camshaft Position Exhaust Sensor Control 1	I	—
36	0.5	VT/BK	5273	Camshaft Position Exhaust Sensor 1	I	—
37	0.5	BK/GY	5296	Camshaft Position Exhaust Sensor Low Reference 1	I	—
38	0.5	L-BU	410	Engine Coolant Temperature Sensor Signal	I	—
39	0.5	BN/RD	7445	Fuel Line Pressure Sensor 5V Reference	I	—
40	0.5	BN/RD	2917	Fuel Rail Pressure Sensor 5V Reference	I	—
41	0.5	BK/L-GN	2919	Fuel Rail Pressure Sensor Low Reference	I	—
42	—	—	—	Not Occupied	—	—
43	0.5	BK/L-BU	6755	Cam Phaser Y Low Reference	I	—
44	0.5	L-GN	5272	Camshaft Phaser Intake Solenoid 2	I	—
45	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	I	—
46	0.5	BK/BN	6753	Cam Phaser W Low Reference	I	—
47	0.75	WH/L-GN	4805	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	I	—
48	0.75	L-BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	—
49	0.75	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	—
50	0.75	GY/L-BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	—
51	0.75	VT/L-GN	4806	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	I	—
52	0.75	L-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	—
53 - 54	—	—	—	Not Occupied	—	—
55	0.5	GY/L-BU	5300	Camshaft Position Intake Sensor Control 1	I	—
56	0.5	YE/VT	5275	Camshaft Position Intake Sensor 1	I	—
57	0.5	BK/L-GN	5301	Camshaft Position Intake Sensor Low Reference 1	I	—
58	—	—	—	Not Occupied	—	—

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
59	0.5	L-BU/WH	7446	Fuel Line Pressure Sensor Signal	I	—
60	0.5	L-BU/WH	2918	Fuel Rail Pressure Sensor Signal	I	—
61	0.5	GY	23	Generator Field Duty Cycle Signal	I	—
62	—	—	—	Not Occupied	—	—
63	0.5	BK/GY	6756	Cam Phaser Z Low Reference	I	—
64	0.5	L-GN/BN	5283	Camshaft Phaser Exhaust Solenoid 2	I	—
65	0.5	GY/L-BU	5282	Camshaft Phaser Exhaust Solenoid 1	I	—
66	0.5	BK/VT	6754	Cam Phaser X Low Reference	I	—
67	0.75	L-GN/WH	4905	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	I	—
68	0.75	L-BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	—
69	0.75	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	—
70	0.75	L-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	—
71	0.75	VT/GY	4906	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	I	—
72	0.75	L-GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	—
73	2.5	BK/WH	151	Signal Ground	II	—

K20 Engine Control Module X3 (LWN)



784851

Connector Part Information

Harness Type: Engine
OEM Connector: 34576-0703
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	13575796	J-35616-64B (LT BU)	J-38125-213	Not Available	Not Available	Not Available	Not Available

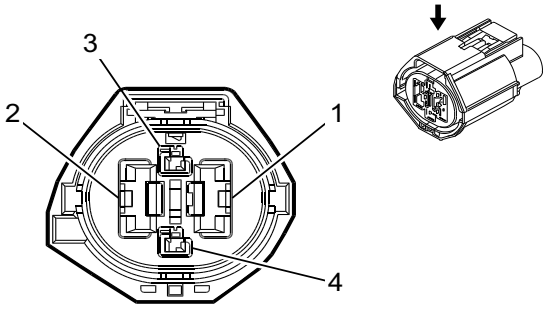
K20 Engine Control Module X3 (LWN)

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/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/BU	61	Outside Ambient Temperature Sensor Low Reference	I	—
9	0.5	BK/VT	3661	Exhaust Gas Temperature Sensor 5 Low Reference	I	—
10	0.5	BK/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/GN	3657	Exhaust Gas Temperature Sensor 3 Low Reference	I	—
13	0.5	BK/BU	6783	Exhaust Gas Temperature Sensor 2 Low Reference	I	—
14	0.5	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	—

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/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	BU/GY	636	Outside Ambient Air Temperature Sensor Signal	I	—
23	0.5	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/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	BU/GN	5377	Exhaust Gas Temperature Sensor 2	I	—
29	—	—	—	Not Occupied	—	—
30	0.5	YE/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	GN/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	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	—	—

K22 Cooling Fan Control Module



2394097

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 7287-1404-10
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.5, 9.5 Series, Sealed (D-GY)

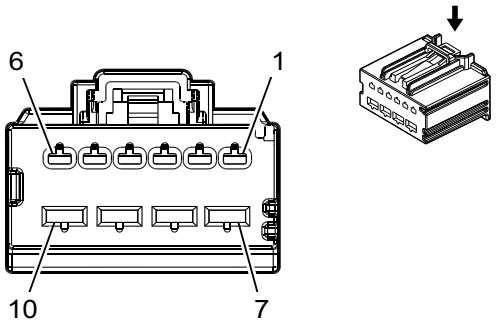
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-22 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	J-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required

K22 Cooling Fan Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	6	BK	1350	Ground	III	LCV
2	10	RD/GY	4840	Battery Positive Voltage	II	LCV
	6	RD/GY	4840	Battery Positive Voltage	III	LGZ
3	—	—	—	Not Occupied	—	—
4	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	I	—

K29 Seat Heating Control Module X1 (KA1)



3791446

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 13582823
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 1.5, 2.8 Series (BK)

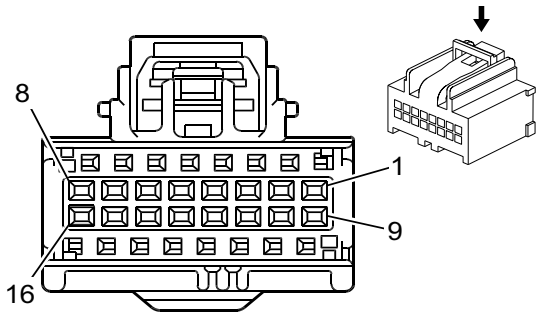
Terminal Part Information

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

K29 Seat Heating Control Module X1 (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	WH/BN	2481	Passenger Heated Back Element Control	I	—
2	0.75	BN/BU	2479	Passenger Heated Seat Element Control	I	—
3	0.75	GY/BK	2480	Passenger Heated Seat Element Low Reference	I	—
4	0.75	VT/BK	2424	Driver Heated Back Element Low Reference	I	—
5	0.75	BN	2432	Driver Heated Back Element Control	I	—
6	0.75	BN/VT	2077	Driver Heated Seat Element Control	I	—
7	0.75	RD/GN	6140	Battery Positive Voltage	I	—
8	0.75	BK	3850	Ground	I	—
9	—	—	—	Not Occupied	—	—
10	0.75	RD/GN	5140	Battery Positive Voltage	I	—

K29 Seat Heating Control Module X2 (KA1)



1653409

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 15136073
Service Connector: Service by Harness - See Part Catalog
Description: 16-Way F 0.64 Kaizen Series (BK)

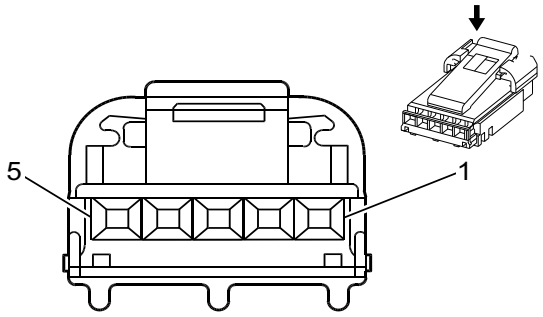
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

K29 Seat Heating Control Module X2 (KA1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK/YE	2080	Driver Heated Seat NTC Low Reference	I	—
2	0.75	GY/BK	2435	Passenger Heated Seat NTC Low Reference	I	—
3	0.75	L-BU	2425	Driver Heated Back NTC Signal	I	—
4	0.75	WH/L-BU	2436	Passenger Heated Back NTC Signal	I	—
5	0.75	WH/GY	2434	Passenger Heated Seat NTC Signal	I	—
6	0.75	YE/GY	2079	Driver Heated Seat NTC Signal	I	—
7	—	—	—	Not Occupied	—	—
8	0.5	L-GN/L-BU	6133	Local Interconnect Network Serial Data Bus 2	I	—
9	0.35	GN/VT	5906	Driver Seat Vent Motor Control 1	I	—
10	0.35	VT/WH	5908	Passenger Seat Vent Motor Control 1	I	—
11	—	—	—	Not Occupied	—	—
12	0.75	BK/L-GN	2482	Passenger Heated Back NTC Low Reference	I	—
13 - 16	—	—	—	Not Occupied	—	—

K32 Steering Wheel Heating Control Module



1682177

Connector Part Information

Harness Type: Heated Steering Wheel
OEM Connector: 31072-1010
Service Connector: Service by Harness - See Part Catalog
Description: 5-Way F 31072 Series (BK)

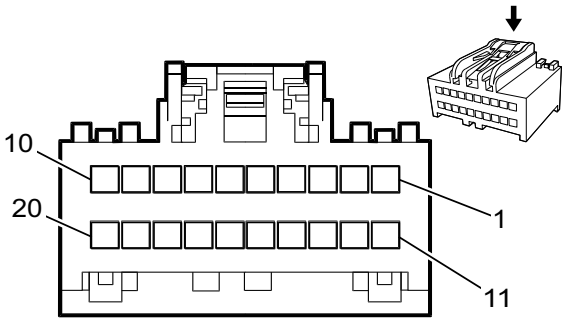
Terminal Part Information

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

K32 Steering Wheel Heating Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE/GY	5883	Heated Steering Wheel Switch Signal	I	—
2	0.35	GN	5884	Heated Steering Wheel Switch LED Control	I	—
3	0.75	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
4 - 5	—	—	—	Not Occupied	—	—

K33 HVAC Control Module X1



2180227

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 31410-0203
Service Connector: 13593934
Description: 20-Way F 0.64 Series (GN)

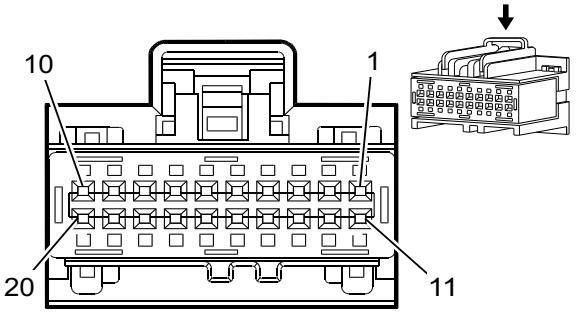
Terminal Part Information

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

K33 HVAC Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.35	GY/GN	7565	Windscreen Temp Sensor Signal	I	—
3	—	—	—	Not Occupied	—	—
4	0.35	BU/WH	734	Inside Air Temperature Sensor Signal	I	—
5	0.35	YE/BU	3197	Humidity Temperature Sensor Signal	I	—
6	0.35	YE/RD	597	5V Reference	I	—
7	0.35	BK/BU	7566	Humidity/Windscreen Temp Sensor Low Reference	I	—
8 - 11	—	—	—	Not Occupied	—	—
12	0.35	GY/BU	7564	Humidity Sensor Signal	I	—
13	—	—	—	Not Occupied	—	—
14	0.35	YE/VT	1783	Twilight Sentinel Delay Signal	I	—
15 - 17	—	—	—	Not Occupied	—	—
18	0.5	BN	518	Lower Left Air Temperature Sensor Signal	I	—
19 - 20	—	—	—	Not Occupied	—	—

K33 HVAC Control Module X2



1664552

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13593933
Service Connector: 13593933
Description: 20-Way F USCAR 64 Series (BN)

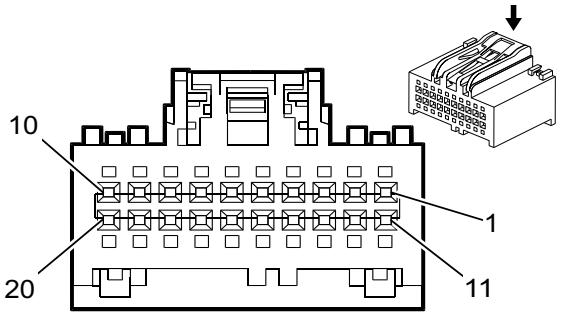
Terminal Part Information

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

K33 HVAC Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/VT	3340	Battery Positive Voltage	I	—
2	0.35	GN	5060	Low Speed GMLAN Serial Data	I	—
3	—	—	—	Not Occupied	—	—
4	0.35	GN/YE	7531	Local Interconnect Network Serial Data Bus 9	I	—
5 - 6	—	—	—	Not Occupied	—	—
7	0.5	VT	3195	Auxiliary Heater Control	I	—
8	0.5	BK	2050	Ground	I	—
9	0.35	VT/GY	539	Run/Crank Ignition 1 Voltage	I	—
10	0.5	BU/YE	7574	Electric Variable Displacement Control	I	—
11	0.5	BU/BN	7573	Electric Variable Displacement Supply	I	—
12 - 14	—	—	—	Not Occupied	—	—
15	0.35	BU/GY	754	Blower Motor Speed Control	I	—
16 - 17	—	—	—	Not Occupied	—	—
18	0.35	BK/YE	1791	Air Temperature Door Control Low Reference	I	—
19	0.35	BN/VT	193	Rear Defog Relay Control	I	—
20	—	—	—	Not Occupied	—	—

K33 HVAC Control Module X3



1715223

Connector Part Information

Harness Type: HVAC
OEM Connector: 31410-1200
Service Connector: Service by Harness - See Part Catalog
Description: 20-Way F 64 Series, Sealed (BK)

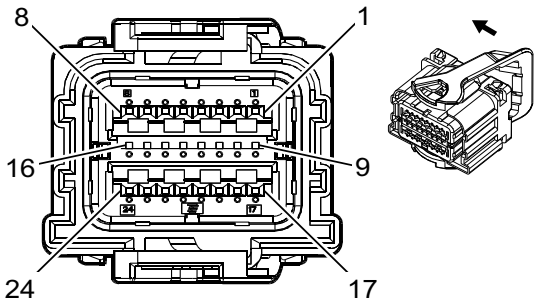
Terminal Part Information

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

K33 HVAC Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN	516	Upper Left Air Temperature Sensor Signal	I	—
2	0.35	YE	3165	Mode Door Stepper Motor Control 1	I	—
3	0.35	WH/RD	3166	Mode Door Stepper Motor Control 2	I	—
4	0.35	GY/BN	3167	Mode Door Stepper Motor Control 3	I	—
5	0.35	GN/WH	3168	Mode Door Stepper Motor Control 4	I	—
6 - 8	—	—	—	Not Occupied	—	—
9	0.35	BK/YE	407	Sensor Low Reference	I	—
10	—	—	—	Not Occupied	—	—
11	0.35	GN	3169	Temp Door Stepper Motor Control 1	I	—
12	0.35	WH/PK	3170	Temp Door Stepper Motor Control 2	I	—
13	0.35	GY/RD	3171	Temp Door Stepper Motor Control 3	I	—
14	0.35	RD/BK	3172	Temp Door Stepper Motor Control 4	I	—
15	0.35	BK	7572	HVAC Motor Control	I	—
16	0.35	GY	3173	Air Inlet Door Stepper Motor Control 1	I	—
17	0.35	BU/WH	3174	Air Inlet Door Stepper Motor Control 2	I	—
18	0.35	BN/GN	3175	Air Inlet Door Stepper Motor Control 3	I	—
19	0.35	RD/GN	3176	Air Inlet Door Stepper Motor Control 4	I	—
20	0.35	GY	6137	EVAP Core Temperature Sensor Signal	I	—

K36 Inflatable Restraint Sensing and Diagnostic Module X1



2829824

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 2098923-7
Service Connector: 19299778
Description: 24-Way F 0.64 Series, Sealed (YE)

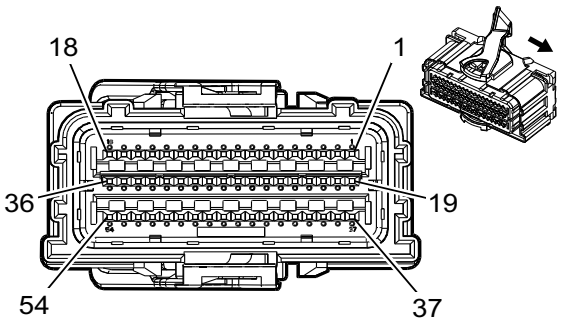
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	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	0.35	OG/GN	3021	Steering Wheel Module Stage 1 High Control	I	—
2	0.35	WH/OG	3020	Steering Wheel Module Stage 1 Low Control	I	—
3	0.35	BN/OG	3022	Steering Wheel Module Stage 2 Low Control	I	—
4	0.35	OG/VT	3023	Steering Wheel Module Stage 2 High Control	I	—
5	0.35	YE/OG	3025	Passenger IP Module Stage 1 High Control	I	—
6	0.35	OG/WH	3024	Passenger IP Module Stage 1 Low Control	I	—
7	0.35	OG/VT	3026	Passenger IP Module Stage 2 Low Control	I	—
8	0.35	GY/OG	3027	Passenger IP Module Stage 2 High Control	I	—
9	0.5	RD/GN	4440	Battery Positive Voltage	I	—
10	0.35	VT/WH	5234	Passenger Seat Belt Indicator Control	I	—
11	0.35	BU	2307	Passenger Air Bag On Indicator Control	I	—
12	0.35	GN	2308	Passenger Air Bag Off Indicator Control	I	—
13 - 14	—	—	—	Not Occupied	—	—
15	0.5	GN	5060	Low Speed GMLAN Serial Data	I	—
16	—	—	—	Not Occupied	—	—
17	0.5	WH/BU	5986	Serial Data Communication Enable	I	—
18	0.5	BU/YE	6105	High Speed GMLAN Serial Data (+) 2	I	—
19	0.5	BK/WH	2251	Signal Ground	I	—
20	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	I	—
21 - 24	—	—	—	Not Occupied	—	—

K36 Inflatable Restraint Sensing and Diagnostic Module X2



2817420

Connector Part Information

Harness Type: Body
OEM Connector: 2098922-9
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

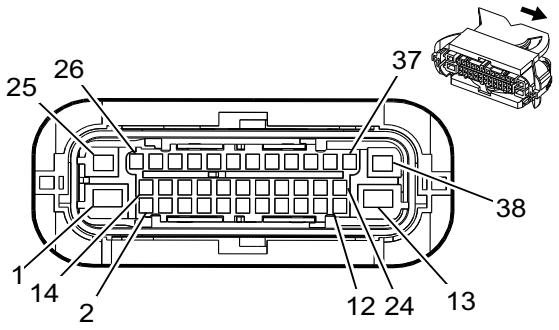
K36 Inflatable Restraint Sensing and Diagnostic Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 8	—	—	—	Not Occupied	—	—
9	0.35	OG/YE	3481	Driver Seat Belt Anchor Pretensioner High Control	I	—
10	0.35	YE/OG	3482	Driver Seat Belt Anchor Pretensioner Low Control	I	—
11	0.35	GY/OG	3480	Passenger Seat Belt Anchor Pretensioner Low Control	I	—
12	0.35	OG/BN	3479	Passenger Seat Belt Anchor Pretensioner High Control	I	—
13	0.35	OG/BU	3068	Driver Side Impact Module High Control	I	—
14	0.35	GN/OG	3069	Driver Side Impact Module Low Control	I	—
15	0.35	BN/OG	3067	Passenger Side Impact Module Low Control	I	—
16	0.35	OG/GY	3066	Passenger Side Impact Module High Control	I	—
17	0.5	OG/GN	5019	Left Front Head Curtain Module High Control	I	—
18	0.5	VT/OG	5020	Left Front Head Curtain Module Low Control	I	—
19	0.35	OG/GN	2132	Left Front Side Impact Sensing Module Signal	I	—
20	0.35	BK/OG	6628	Left Front Side Impact Sensing Module Low Reference	I	—
21	0.35	BK/OG	6629	Right Front Side Impact Sensing Module Low Reference	I	—
22	0.35	BN/OG	2134	Right Front Side Impact Sensing Module Signal	I	—
23	0.5	OG/YE	354	Left Front Discriminating Sensor Signal	I	—
24	0.5	BK/OG	5045	Left Front Discriminating Sensor Low Reference	I	—

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
25	0.5	BK/OG	5600	Right Front Discriminating Sensor Low Reference	I	—
26	0.5	OG/GN	1409	Right Front Discriminating Sensor Signal	I	—
27	0.35	OG/BU	6620	Left Middle Side Impact Sensing Module Signal	I	—
28	0.35	BK/OG	6621	Left Middle Side Impact Sensing Module Low Reference	I	—
29	0.35	BK/OG	6625	Right Middle Side Impact Sensing Module Low Reference	I	—
30	0.35	OG/VT	6624	Right Middle Side Impact Sensing Module Signal	I	—
31 - 36	—	—	—	Not Occupied	—	—
37	0.5 0.35	OG/WH OG/WH	3477 3477	Driver Seat Belt Retractor Pretensioner High Control Driver Seat Belt Retractor Pretensioner High Control	I I	CREW CAB EXTENDED CAB
38	0.5 0.35	GY/OG GY/OG	3478 3478	Driver Seat Belt Retractor Pretensioner Low Control Driver Seat Belt Retractor Pretensioner Low Control	I I	CREW CAB EXTENDED CAB
39	0.35 0.5	WH/OG WH/OG	3476 3476	Passenger Seat Belt Retractor Pretensioner Low Control Passenger Seat Belt Retractor Pretensioner Low Control	I I	CREW CAB EXTENDED CAB
40	0.35 0.5	OG/GN OG/GN	3475 3475	Passenger Seat Belt Retractor Pretensioner High Control Passenger Seat Belt Retractor Pretensioner High Control	I I	CREW CAB EXTENDED CAB
41	0.35	OG/BN	238	Driver Seat Belt Switch Signal	I	—
42	—	—	—	Not Occupied	—	—
43	0.35	BK/OG	1363	Driver Seat Belt Switch Low Reference	I	—
44	0.35	BK/OG	1361	Passenger Seat Belt Switch Low Reference	I	—
45	0.35	OG/VT	1362	Passenger Seat Belt Switch Signal	I	—
46 - 52	—	—	—	Not Occupied	—	—
53	0.5	OG/GY	5021	Right Front Head Curtain Module High Control	I	—
54	0.5	WH/OG	5022	Right Front Head Curtain Module Low Control	I	—

K38 Chassis Control Module



3240110

Connector Part Information

Harness Type: Chassis
OEM Connector: 15498534
Service Connector: 19329924
Description: 38-Way F 1.5 CTS, 2.8 MCP, 4.8 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	19119772	J-35616-35 (VT)	J-38125-557	1241388-1	Lear 17	E	C
II	19301757	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	A	B

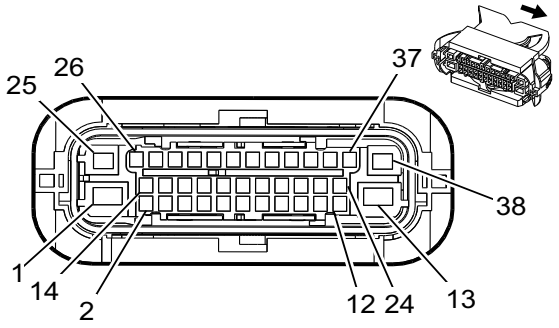
K38 Chassis Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	RD/VT	1940	Battery Positive Voltage	II	—
2 - 12	—	—	—	Not Occupied	—	—
13	2.5	BK	650	Ground	II	—
14	0.5	VT/YE	5985	Accessory Wakeup Serial Data	II	—
15	—	—	—	Not Occupied	—	—
16	0.5	BU/RD	7632	Integrated Trailer Brake Controller Switch 5V Reference	II	—
17	—	—	—	Not Occupied	—	—
18	0.5	BN	7634	Integrated Trailer Brake Controller Redundant Manual Apply Signal	II	—
19	0.5 0.5	BK/BN BK/BN	7631 7631	Integrated Trailer Brake Controller Switch Low Reference Integrated Trailer Brake Controller Switch Low Reference	II II	BPH+LGZ LWN
20	0.5	YE	7635	Integrated Trailer Brake Controller Manual Apply Signal	II	—
21	0.5	GN/BK	7633	Integrated Trailer Brake Controller User Gain Signal	II	—
22	0.5	YE/BK	2224	Trailer Brake Enable Signal	II	—
23	0.5	WH/BK	2223	Trailer Brake Control Signal	II	—
24	—	—	—	Not Occupied	—	—

K38 Chassis Control Module (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
25	0.75	VT/GY	139	Run/Crank Ignition 1 Voltage	I	—
26	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
27	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
28	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
29	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
30	0.5	GN/VT	4114	Local Interconnect Network Serial Data Bus 14	II	—
31 - 38	—	—	—	Not Occupied	—	—

K38A Chassis Control Module - Auxiliary



3240110

Connector Part Information

Harness Type: Chassis
OEM Connector: 15498534
Service Connector: 19329924
Description: 38-Way F 1.5 CTS, 2.8 MCP, 4.8 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	19119772	J-35616-35 (VT)	J-38125-557	1241388-1	Lear 17	E	C
II	19301757	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	A	B
III	19301776	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available

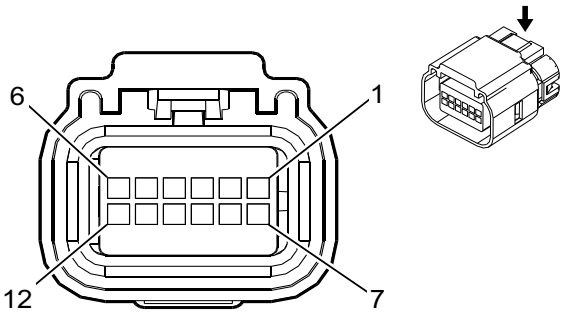
K38A Chassis Control Module - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	RD/VT	1940	Battery Positive Voltage	II	—
2	—	—	—	Not Occupied	—	—
3	0.5	BK/YE	7259	Axle Differential Lock Switch Low Reference	III	—
4	0.5	YE/GN	7122	Axle Differential Lock Switch Signal	III	—
5 - 6	—	—	—	Not Occupied	—	—
7	0.5	WH/BK	7254	Front Differential Lock Actuator Low Control	III	—
8 - 9	—	—	—	Not Occupied	—	—
10	0.5	VT/BK	7253	Rear Differential Lock Actuator Low Control	III	BPH
	0.5	VT/BK	7121	Rear Axle Differential Lock Low Reference	III	LWN
	0.5	GY/BK	7253	Rear Differential Lock Actuator Low Control	III	SWB
11	0.5	YE	7115	Rear Axle Differential Lock Indicator Control	III	—
12	0.5	VT/GY	7117	Front Axle Differential Lock Indicator Control	III	—
13	2.5	BK	650	Ground	II	—
14	0.5	VT/YE	5985	Accessory Wakeup Serial Data	III	—
15	0.5	VT/WH	7256	Front Differential Lock Actuator Supply Voltage	III	—
16	0.5	BU/RD	7632	Integrated Trailer Brake Controller Switch 5V Reference	III	—
17	0.5	VT/BN	7258	Rear Differential Lock Actuator Supply Voltage	III	—

K38A Chassis Control Module - Auxiliary (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
18	0.5	BN	7634	Integrated Trailer Brake Controller Redundant Manual Apply Signal	III	—
19	0.5	BK/BN	7631	Integrated Trailer Brake Controller Switch Low Reference	III	—
20	0.5	YE	7635	Integrated Trailer Brake Controller Manual Apply Signal	III	—
21	0.5	GN/BK	7633	Integrated Trailer Brake Controller User Gain Signal	III	—
22	0.5	YE/BK	2224	Trailer Brake Enable Signal	III	—
23	0.5	WH/BK	2223	Trailer Brake Control Signal	III	—
24	—	—	—	Not Occupied	—	—
25	0.75	VT/GY	139	Run/Crank Ignition 1 Voltage	I	—
26	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	III	—
27	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	III	—
28	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	III	—
29	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	III	—
30	0.5	GN/VT	4114	Local Interconnect Network Serial Data Bus 14	III	—
31 - 33	—	—	—	Not Occupied	—	—
34	0.5	GN/BK	7118	Front Axle Differential Lock Low Reference	III	—
35	0.5	VT/BK	7121	Rear Axle Differential Lock Low Reference	III	—
36	0.5	BU/BK	7116	Front Axle Differential Lock Control	III	—
37	0.5	BU/WH	7120	Rear Axle Differential Lock Control	III	—
38	—	—	—	Not Occupied	—	—

K43 Power Steering Control Module X1



3293624

Connector Part Information

Harness Type: Power Steering
OEM Connector: 13678638
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F 1.2 OCS Series, Sealed (BK)

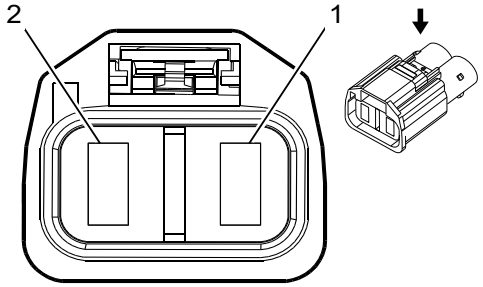
Terminal Part Information

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

K43 Power Steering Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/BN	5940	Battery Positive Voltage	I	—
2	0.5	WH/BU	5986	Serial Data Communication Enable	I	—
3	0.5	BU/YE	6105	High Speed GMLAN Serial Data (+) 2	I	—
4	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	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	0.5	BK	1150	Ground	I	—
8	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
9	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
10	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
11	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
12	0.5	BK	1150	Ground	I	—

K43 Power Steering Control Module X2



2748050

Connector Part Information

Harness Type: Power Steering
OEM Connector: 7287-1990-30
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 9.5 Series, Sealed (BK)

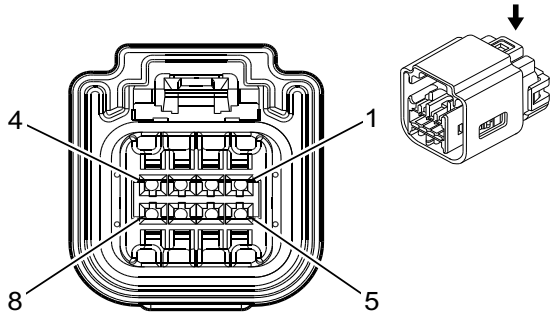
Terminal Part Information

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

K43 Power Steering Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	10	BK	1050	Ground	I	—
2	10	RD/VT	842	Battery Positive Voltage	I	—

K43 Power Steering Control Module X3



3996837

Connector Part Information

Harness Type: Power Steering
OEM Connector: 13572498
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 1.2 OCS Series, Sealed (BK)

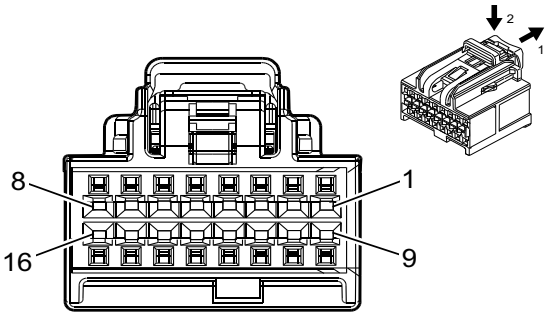
Terminal Part Information

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

K43 Power Steering Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/BK	—	—	I	—
2	0.5	BN/RD	6631	Torque Input Sensor High Reference	I	—
3	0.5	BU/GY	6633	Torque Input Sensor Signal	I	—
4	0.5	BK/BU	6632	Torque Input Sensor Low Reference	I	—
5	0.5	WH/OG	—	—	I	—
6	0.5	BN/RD	6631	Torque Input Sensor High Reference	I	—
7	0.5	BU/GY	6633	Torque Input Sensor Signal	I	—
8	0.5	BK/BU	6632	Torque Input Sensor Low Reference	I	—

K56 Serial Data Gateway Module X1



4873243

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 35016343
Service Connector: 13519738
Description: 16-Way F 0.64 OCS Series (BK)

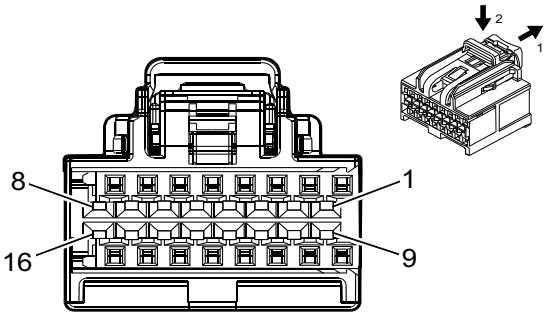
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13587581	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

K56 Serial Data Gateway Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD/WH	6440	Battery Positive Voltage	I	—
2	—	—	—	Not Occupied	—	—
3	0.35	BU/GN	1304	High Speed GMLAN Serial Data (+)9	I	—
4	0.35	WH/GN	1305	High Speed GMLAN Serial Data (-)9	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	BK/WH	2151	Signal Ground	I	—
7	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
8	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
9	—	—	—	Not Occupied	—	—
10	0.35	WH/BU	5986	Serial Data Communication Enable	I	—
11	0.35	BU/GN	1304	High Speed GMLAN Serial Data (+)9	I	—
12	0.35	WH/GN	1305	High Speed GMLAN Serial Data (-)9	I	—
13	0.35	BU/GN	1304	High Speed GMLAN Serial Data (+)9	I	—
14	0.35	WH/GN	1305	High Speed GMLAN Serial Data (-)9	I	—
15	0.5	GN	5060	Low Speed GMLAN Serial Data	I	—
16	—	—	—	Not Occupied	—	—

K56 Serial Data Gateway Module X2



4873254

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 35016344
Service Connector: 13594066
Description: 16-Way F 0.64 OCS 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	13587581	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

K56 Serial Data Gateway Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
2	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
3 - 9	—	—	—	Not Occupied	—	—
10	0.5	GY/GN	1102	Low Speed GMLAN Serial Data #2	I	—
11	0.35	BU/GN	1304	High Speed GMLAN Serial Data (+)9	I	—
12	0.35	WH/GN	1305	High Speed GMLAN Serial Data (-)9	I	—
13 - 16	—	—	—	Not Occupied	—	—

K69 Transfer Case Control Module X1

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Connector Part Information

Harness Type: Body
OEM Connector: 15512507
Service Connector: 13591062
Description: 16-Way F 1.5 OCS Series (GY)

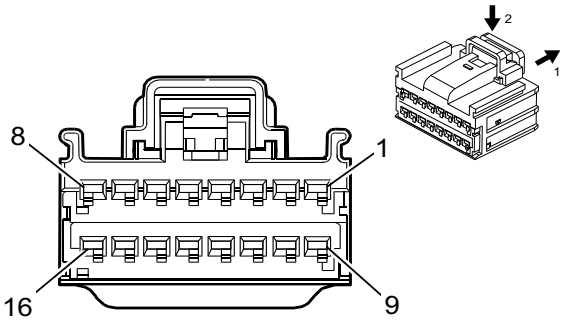
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13576369	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
II	19301767	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

K69 Transfer Case Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BK	7478	Rotary Position Sensor Low Reference	I	—
2	0.5	WH/GN	7479	Rotary Position Sensor Signal	I	—
3	0.5	YE	7474	Incremental Encoder Direction Signal	I	—
4	0.5	GY/BK	1570	Front Axle Actuator Control	I	—
5	0.5	BU/GY	7473	Incremental Encoder Impulse Signal	I	—
6	0.35	GY/RD	6029	Four Wheel Drive Mode Switch 5V Reference	I	—
7	0.35	BU/YE	1693	Four Wheel Drive Switch Signal	I	—
9	0.5	WH/RD	7477	Rotary Position Sensor 5V Reference	I	—
10	0.5	WH/GN	7475	Incremental Encoder Sensor 8V Reference	I	—
11	0.5	VT	7476	Incremental Encoder Sensor Low Reference	I	—
12	0.5	YE/WH	1695	Four Wheel Drive Wheel Lock Indicator Control	I	—
13	1	YE/BN	1569	Transfer Case Lock Solenoid Control	II	—

K69 Transfer Case Control Module X2



4332214

Connector Part Information

Harness Type: Body
OEM Connector: 15512506
Service Connector: 13591061
Description: 16-Way F 1.5 OCS Series (BK)

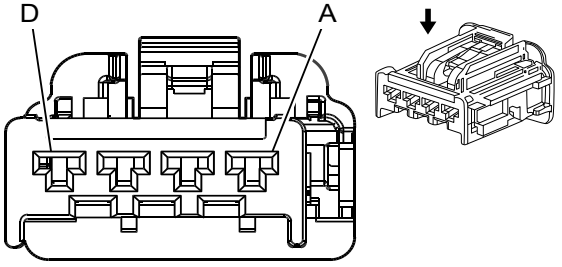
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13576369	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available

K69 Transfer Case Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.35	VT/WH	1565	4 LO Indicator Control	I	—
4	0.35	VT/GN	1739	Run/Crank Ignition 1 Voltage	I	—
5	—	—	—	Not Occupied	—	—
6	0.35	VT/YE	5985	Accessory Wakeup Serial Data	I	—
7	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
8	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
9 - 10	—	—	—	Not Occupied	—	—
11	0.35	GY/GN	1561	AWD Indicator Control	I	—
12	0.35	BN	1560	Neutral Indicator Control	I	—
13	0.35	GN/BK	1563	2 HI Indicator Control	I	—
14	0.35	BN/BK	1566	4 HI Indicator Control	I	—
15	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
16	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—

K69 Transfer Case Control Module X3



1866237

Connector Part Information

Harness Type: Body
OEM Connector: 15466671
Service Connector: 19149301
Description: 4-Way F 280 GT Series (L-GY)

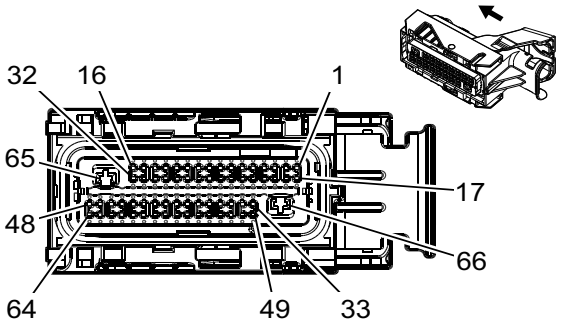
Terminal Part Information

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

K69 Transfer Case Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.5	YE/VT	1553	Transfer Case Motor Counter Clockwise Control	I	—
B	2.5	YE/GY	1552	Transfer Case Motor Clockwise Control	I	—
C	2.5	RD/GY	1342	Battery Positive Voltage	I	—
D	2.5	BK	3250	Ground	I	—

K71 Transmission Control Module



3621452

Connector Part Information

Harness Type: Engine
OEM Connector: 34822-0013
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

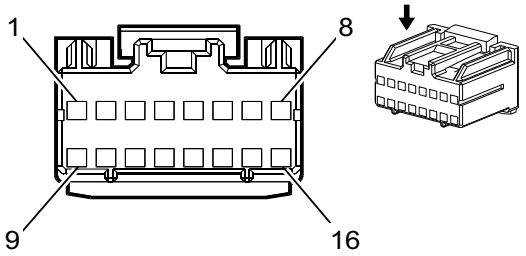
K71 Transmission Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BU	4507	Transmission Clutch H Control	I	—
2	0.5	BU	6401	Clutch B Control	I	—
3	0.5	GY/GN	6403	Clutch D Control	I	—
4 - 6	—	—	—	Not Occupied	—	—
7	0.5	YE/GN	4170	Transmission Position Sensor B 9V Reference	I	—
8	0.5	YE/BU	4171	Transmission Position Sensor A 9V Reference	I	—
9	—	—	—	Not Occupied	—	—
10	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	MYB
11	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	MYB
12	—	—	—	Not Occupied	—	—
13	0.5 0.5	GN/VT WH	4510 2501	Transmission Intermediate Speed Signal High Speed GMLAN Serial Data (-) 1	I I	M5T MYB
14	0.5 0.5	GY/BU BU	6358 2500	Output Speed Signal High Speed GMLAN Serial Data (+) 1	I I	M5T MYB
15	0.5	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	—

K71 Transmission Control Module (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20	0.5	YE/BN	6404	Clutch E Control	I	—
21	0.5	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	—
26 - 27	—	—	—	Not Occupied	—	—
28	0.5	BK/BN	586	Transmission Oil Temperature Sensor Low Reference	I	—
29 - 32	—	—	—	Not Occupied	—	—
33	0.75	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	1451	Signal Ground	II	—
66	0.75	RD/GN	1840	Battery Positive Voltage	II	—

K73 Telematics Communication Interface Control Module X1



2404967

Connector Part Information

Harness Type: Body
OEM Connector: 1456601-1
Service Connector: 19153138
Description: 16-Way F 040 Multilock II Series (WH)

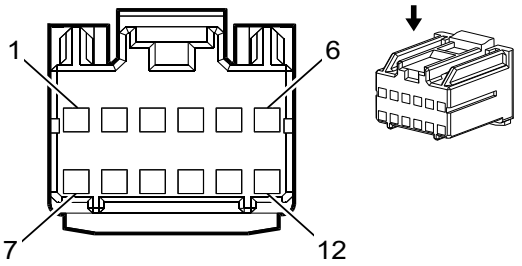
Terminal Part Information

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	13575740	J-35616-16 (LT GN)	J-38125-559	15445905	Delphi 23	J	J

K73 Telematics Communication Interface Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/GN	1102	Low Speed GMLAN Serial Data #2	II	—
2	0.35	BN/WH	2517	Keypad Red LED Control	I	—
3	0.35	YE/VT	2516	Keypad Green LED Control	I	—
4 - 5	—	—	—	Not Occupied	—	—
6	0.35	GN/BK	2515	Keypad Control	I	—
7	0.5	BK/WH	2051	Signal Ground	II	—
8 - 9	—	—	—	Not Occupied	—	—
10	0.35	BU/GN	1304	High Speed GMLAN Serial Data (+)9	I	—
11	0.35	GN/WH	2514	Keypad Signal	I	—
12	0.35	WH/GN	1305	High Speed GMLAN Serial Data (-)9	I	—
13 - 14	—	—	—	Not Occupied	—	—
15	0.35	RD/BU	3240	Battery Positive Voltage	I	—
16	—	—	—	Not Occupied	—	—

K73 Telematics Communication Interface Control Module X2



2405015

Connector Part Information

Harness Type: Body
OEM Connector: 1456599-1
Service Connector: 88952886
Description: 12-Way F 040 Multilock II Series (WH)

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	13575740	J-35616-16 (LT GN)	J-38125-559	15445905	Delphi 23	J	J

K73 Telematics Communication Interface Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	658	Cellular Telephone Voice Signal	I	—
2	0.35	BK/YE	659	Cellular Telephone Voice Low Reference	I	—
3	0.35	BU/GN	1304	High Speed GMLAN Serial Data (+)9	I	—
4	0.35	WH/GN	1305	High Speed GMLAN Serial Data (-)9	I	—
5	0.5	Bare	1792	Low Reference	II	—
6	0.35	GY/YE	5149	Voice Recognition Audio Signal	I	—
7	0.35	WH/BU	5986	Serial Data Communication Enable	I	—
8	0.35	Bare	514	Low Reference	I	—
9	0.35	BU	655	Cellular Telephone Microphone Signal	I	—
10	0.35	BK/BN	654	Cellular Telephone Microphone Low Reference	I	—
11	—	—	—	Not Occupied	—	—
12	0.35	BK/GY	5152	Voice Recognition Audio Low Reference	I	—

K73 Telematics Communication Interface Control Module X5 (UE1)

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Connector Part Information

Harness Type: Body COAX
OEM Connector: COAX
Service Connector: Not Available
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

K73 Telematics Communication Interface Control Module X5 (UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
VT	—	—	COAX	Coax Cable	I	—

K73 Telematics Communication Interface Control Module X7 (UE1)

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Connector Part Information

Harness Type: Body COAX
OEM Connector: COAX
Service Connector: Not Availabile
Description: 1-Way

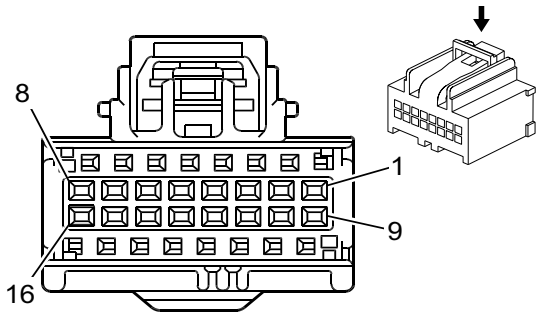
Terminal Part Information

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

K73 Telematics Communication Interface Control Module X7 (UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
BN	—	—	COAX	Coax Cable	I	—

K74 Human Machine Interface Control Module X1



1653409

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15136073
Service Connector: 15136073
Description: 16-Way F 0.64 Kaizen Series (BK)

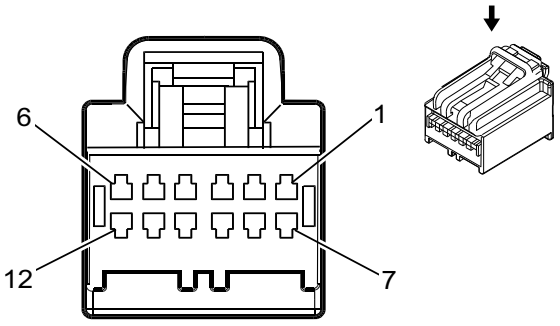
Terminal Part Information

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

K74 Human Machine Interface Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY/YE	5149	Voice Recognition Audio Signal	I	—
2	0.35	BK/GY	5152	Voice Recognition Audio Low Reference	I	—
3 - 4	—	—	—	Not Occupied	—	—
5	0.35	WH/BU	5986	Serial Data Communication Enable	I	—
6	—	—	—	Not Occupied	—	—
7	0.75	RD/VT	340	Battery Positive Voltage	I	—
8	0.75	BK/WH	2051	Signal Ground	I	—
9	0.5	GN/WH	7527	Local Interconnect Network Serial Data Bus 5	I	—
10	—	—	—	Not Occupied	—	—
11	0.35	BU/GN	1304	High Speed GMLAN Serial Data (+)9	I	—
12	0.35	WH/GN	1305	High Speed GMLAN Serial Data (-)9	I	—
13	0.35	BU/GN	1304	High Speed GMLAN Serial Data (+)9	I	—
14	0.35	WH/GN	1305	High Speed GMLAN Serial Data (-)9	I	—
15 - 16	—	—	—	Not Occupied	—	—

K74 Human Machine Interface Control Module X2



3556661

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 31410-0121
Service Connector: 13593929
Description: 12-Way F 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	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P

K74 Human Machine Interface Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/VT	3999	MOST Control	I	—
2	0.5	WH/GN	3997	MOST Serial Data (-)	I	—
3	0.5	GY/VT	3998	MOST Serial Data (+)	I	—
4	—	—	—	Not Occupied	—	—
5	0.35	GY/YE	6972	Camera Signal 2 +	I	—
6	0.35	WH/BU	6973	Camera Signal 2	I	—
7	—	—	—	Not Occupied	—	—
8	0.5	GY/VT	3998	MOST Serial Data (+)	I	—
9	0.5	WH/GN	3997	MOST Serial Data (-)	I	—
10 - 12	—	—	—	Not Occupied	—	—

K74 Human Machine Interface Control Module X4

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Connector Part Information

Harness Type: Instrument Panel
OEM Connector: CCEND
Service Connector: Not Available
Description: -Way

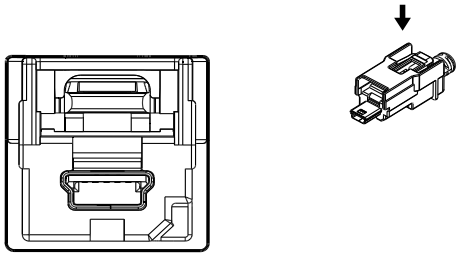
Terminal Part Information

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

K74 Human Machine Interface Control Module X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD	3149	USB Serial Data Control	I	—
2	0.35	WH	3147	USB D (-) Serial Data	I	—
3	0.35	GN	3146	USB D (+) Serial Data	I	—
4	0.35	BK	3148	USB Serial Data Low Reference	I	—
5	0.35	Bare	3145	USB Serial Data Ground	I	—

K74 Human Machine Interface Control Module X5 (IO5/IO6)



2807425

Connector Part Information

Harness Type: Instrument Panel LVDS
OEM Connector: RSD-111014-152
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (BK)

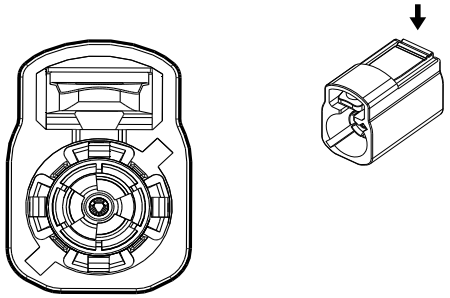
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

K74 Human Machine Interface Control Module X5 (IO5/IO6)

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

K74 Human Machine Interface Control Module X7 (IO6)



2830975

Connector Part Information

Harness Type: Instrument Panel COAX
OEM Connector: 13746743
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way F Coax Type (BU)

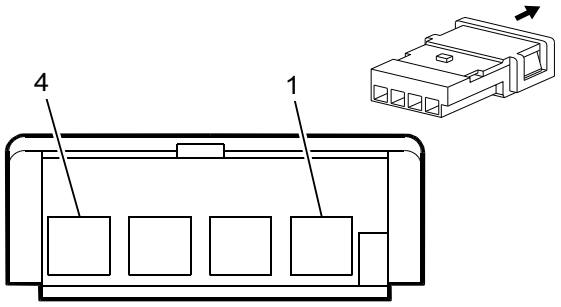
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

K74 Human Machine Interface Control Module X7 (IO6)

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

K77 Remote Control Door Lock Receiver



872587

Connector Part Information

Harness Type: Headliner
OEM Connector: 968943-1
Service Connector: 13576534
Description: 4-Way F 0.64 Micro-Quadlock Series (BK)

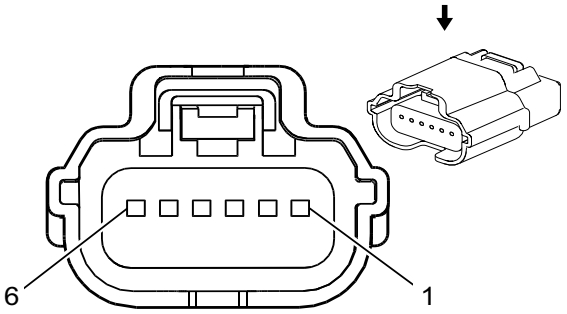
Terminal Part Information

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

K77 Remote Control Door Lock Receiver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	3273	Remote Function Actuator Low Reference	I	—
2	0.35	YE/GN	3274	Remote Function Actuator Transmit Signal	I	—
3	0.35	BU/WH	3275	Remote Function Actuator Receive Signal	I	—
4	0.35	GY/WH	3272	Remote Function Actuator Control	I	—

K85 Passenger presence Module



1974974

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 31404-6132
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Series, Sealed (BK)

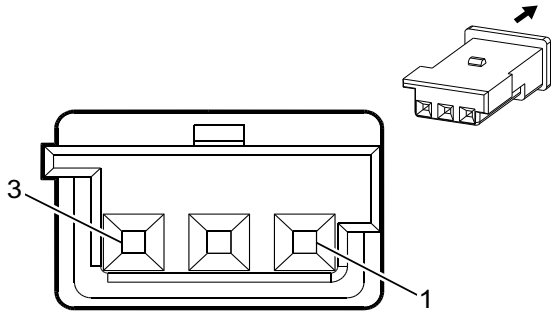
Terminal Part Information

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

K85 Passenger presence Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD/GN	4440	Battery Positive Voltage	I	—
2	0.35	GN	5060	Low Speed GMLAN Serial Data	I	—
3	—	—	—	Not Occupied	—	—
4	0.35	BK/WH	2251	Signal Ground	I	—
5	0.35	BU/RD	5612	Passenger Seat Belt Tension Sensor 5V Reference	I	—
6	0.35	VT/OG	5611	Passenger Seat Belt Tension Sensor Signal	I	—

K89 Immobilizer Control Module



2179789

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 4-1718346-1
Service Connector: 19368723
Description: 3-Way F 0.64 Micro-Quadlock Series (PU)

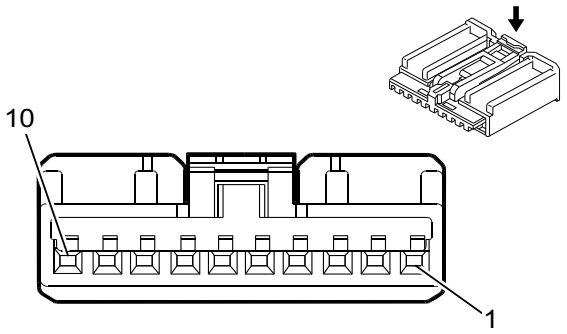
Terminal Part Information

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

K89 Immobilizer Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GN/GY	3277	Vehicle Anti-Theft System Immobilizer Low Reference	I	—
2	0.35	GN/VT	7533	Local Interconnect Network Serial Data Bus 11	I	—
3	0.35	GY/BK	3276	Vehicle Anti-Theft System Immobilizer Control	I	—

K109 Frontview Camera Module



1862241

Connector Part Information

Harness Type: Headliner
OEM Connector: AIT2PB-10-1AK
Service Connector: 13576634
Description: 10-Way F 0.64 Kaizen Series (BK)

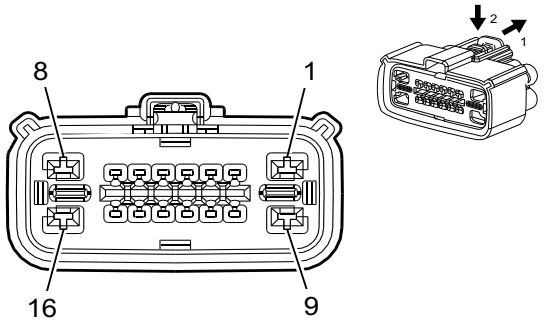
Terminal Part Information

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

K109 Frontview Camera Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK/WH	3451	Signal Ground	I	—
2	—	—	—	Not Occupied	—	—
3	0.35	RD/GN	3140	Battery Positive Voltage	I	—
4	0.35	WH	3152	Lane Departure Warning Indicator Control	I	—
5 - 6	—	—	—	Not Occupied	—	—
7	0.5	GN	5060	Low Speed GMLAN Serial Data	I	—
8 - 9	—	—	—	Not Occupied	—	—
10	0.35	GY/WH	3153	Lane Departure Warning Disable Switch Signal	I	—

K111 Fuel Pump Driver Control Module



4283035

Connector Part Information

Harness Type: Chassis
OEM Connector: 34985-4003
Service Connector: 19352906
Description: 16-Way F 1.5, 2.8 Series, Sealed (BK)

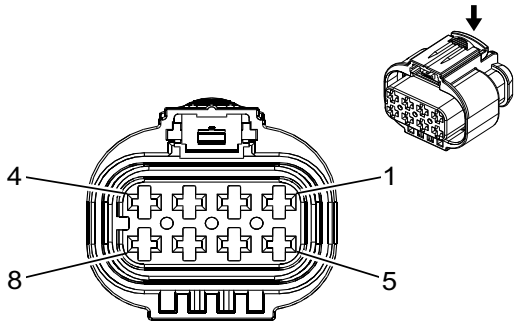
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575808	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
II	13576377	J-35616-35 (VT)	J-38125-12A	1326030-8	Lear 17	4	D
III	19300635	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available

K111 Fuel Pump Driver Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	RD/VT	1940	Battery Positive Voltage	II	—
2	0.5	GN/GY	465	Fuel Pump Primary Relay Control	III	—
3	—	—	—	Not Occupied	—	—
4	0.5	BU/BK	7493	High Speed GMLAN Serial Data (+)3	III	—
5	0.5	WH	7494	High Speed GMLAN Serial Data (-)3	III	—
6	0.75	VT/GY	139	Run/Crank Ignition 1 Voltage	I	—
7	0.5	VT/YE	5985	Accessory Wakeup Serial Data	III	—
8	2.5	GY	120	Fuel Pump Control	II	—
9	2.5	BK	650	Ground	II	—
10 - 14	—	—	—	Not Occupied	—	—
15	0.5	BK	7444	Fuel System Control Module Shield Ground	III	—
16	2.5	BK/GN	1580	Fuel Pump Low Reference	II	—

K115 Reductant Control Module X1 (LWN)



3749581

Connector Part Information

Harness Type: Chassis
OEM Connector: 2109441-2
Service Connector: 19368670
Description: 8-Way F 2.8 Series, Sealed (BK)

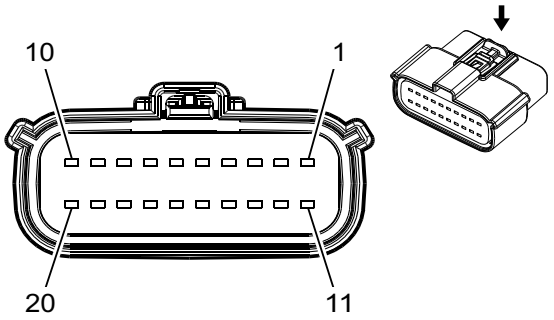
Terminal Part Information

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

K115 Reductant Control Module X1 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/GN	2440	Battery Positive Voltage	I	—
2	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
3	0.5	BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
4	2.5	BK	650	Ground	I	—
5	0.5	VT/GN	4320	Selective Catalytic Reduction Power Module Wake-Up Signal	I	—
6	0.5	WH	4499	High Speed GMLAN Serial Data (-) 7	I	—
7	0.5	BU/BN	4498	High Speed GMLAN Serial Data (+) 7	I	—
8	2.5	BU	3921	DEF Heater Supply 1	I	—

K115 Reductant Control Module X2 (LWN)



2871898

Connector Part Information

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

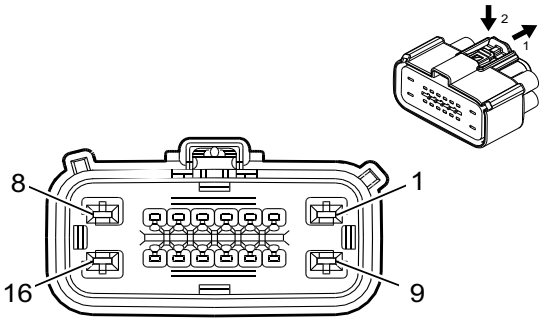
Terminal Part Information

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 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.0	BK	9015	—	I	—
2	1.0	YE/GY	9008	—	I	—
3	1.0	GY/BK	9007	—	I	—
4	1.0	BK/WH	9010	—	I	—
5	1.0	BK	9014	—	I	—
6	—	—	—	Not Occupied	—	—
7	1.0	GY/WH	9017	—	I	—
8	—	—	—	Not Occupied	—	—
9	0.5	BK/WH	9001	—	I	—
10	0.5	BK	9002	—	I	—
11	1.0	GY/WH	9009	—	I	—
12	0.5	BK	9005	—	I	—
13	0.5	BK	9004	—	I	—
14	0.5	BK/WH	9003	—	I	—
15	0.5	BK	9012	—	I	—
16	0.5	BK	9013	—	I	—
17	0.5	BK/WH	9006	—	I	—
18	0.5	BK	9011	—	I	—
19	—	—	—	Not Occupied	—	—
20	1.0	BK/WH	9016	—	I	—

K133 Trailer Brake Power Control Module



4624589

Connector Part Information

Harness Type: Chassis
OEM Connector: 34985-4016
Service Connector: 13599889
Description: 16-Way F 1.5, 2.8 Series, Sealed (GY)

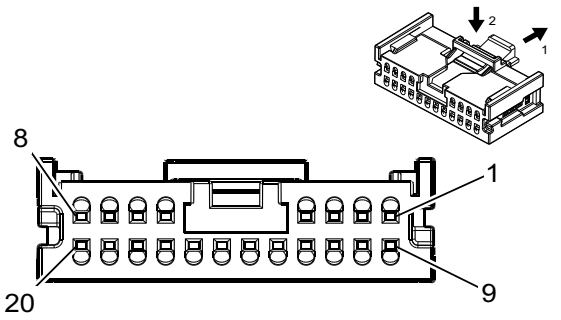
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13576377	J-35616-35 (VT)	J-38125-12A	1326030-8	Lear 17	4	D
II	19300635	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
III	19354739	J-35616-2A (GY)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

K133 Trailer Brake Power Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	RD/GN	242	Battery Positive Voltage	III	—
2	0.5	WH/BK	2223	Trailer Brake Control Signal	II	—
3 - 4	—	—	—	Not Occupied	—	—
5	0.5	YE/BK	2224	Trailer Brake Enable Signal	II	—
6 - 7	—	—	—	Not Occupied	—	—
8	2.5	BU	47	Trailer Auxiliary Control	I	—
9	2.5	BK	650	Ground	I	—
10 - 11	—	—	—	Not Occupied	—	—
12	0.5	GN/VT	4114	Local Interconnect Network Serial Data Bus 14	II	—
13 - 16	—	—	—	Not Occupied	—	—

K188 Human Machine Interface Control Module Bypass Module X1



4231339

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 34824-2200
Service Connector: 13596105
Description: 20-Way F Mini 50 Series (BK)

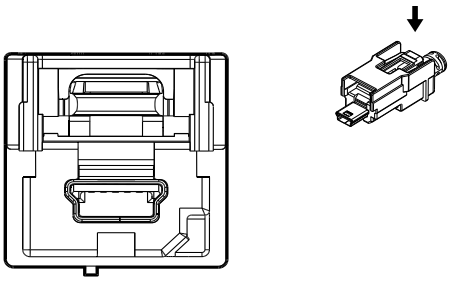
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19333221	EL-35616-58 (BK)	J-38125-553	Not Available	Not Available	Not Available	Not Available

K188 Human Machine Interface Control Module Bypass Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD/GY	2840	Battery Positive Voltage	I	—
2	0.35	GY/VT	755	RAP Relay Coil Control	I	—
3	0.35	GN/WH	7527	Local Interconnect Network Serial Data Bus 5	I	—
4	—	—	—	Not Occupied	—	—
5	0.35	BK/WH	2051	Signal Ground	I	—
6	0.35	GY/YE	6972	Camera Signal 2 +	I	—
7	—	—	—	Not Occupied	—	—
8	0.35	GY/YE	6972	Camera Signal 2 +	I	—
9	0.35	GN/WH	24	Backup Lamp Control	I	—
10 - 17	—	—	—	Not Occupied	—	—
18	0.35	WH/BU	6973	Camera Signal 2	I	—
19	0.35	Bare	6974	Camera Low Reference	I	—
20	0.35	WH/BU	6973	Camera Signal 2	I	—

K188 Human Machine Interface Control Module Bypass Module X2



2807715

Connector Part Information

Harness Type: Instrument Panel LVDS
OEM Connector: 13581314
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (BN)

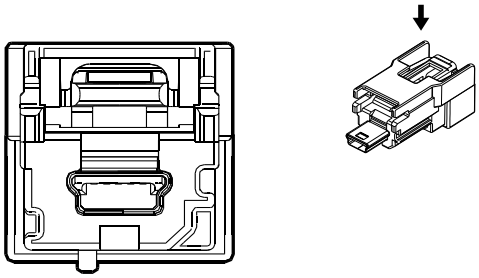
Terminal Part Information

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

K188 Human Machine Interface Control Module Bypass Module X2

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

K188 Human Machine Interface Control Module Bypass Module X3



2830945

Connector Part Information

Harness Type: Instrument Panel LVDS
OEM Connector: 13581318
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (GY)

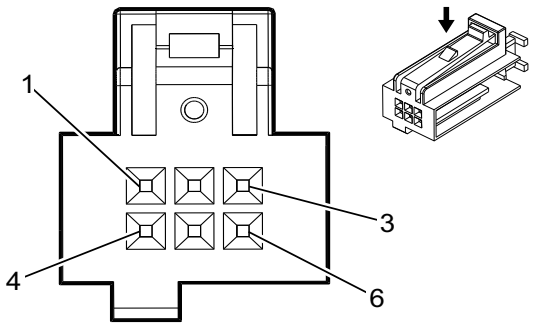
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

K188 Human Machine Interface Control Module Bypass Module X3

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

M4 Air Inlet Door Actuator



2220563

Connector Part Information

Harness Type: HVAC
OEM Connector: 1519302
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F Micro-Quadlock Series (BK)

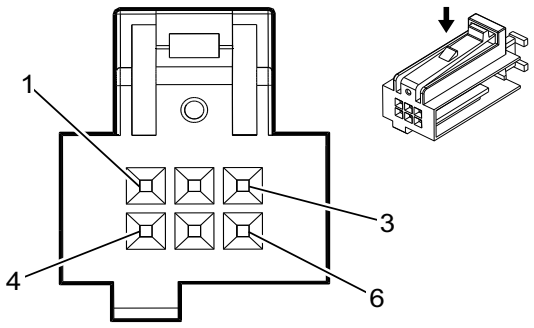
Terminal Part Information

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

M4 Air Inlet Door Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	22	GY	3173	Air Inlet Door Stepper Motor Control 1	I	—
2	22	BK	7572	HVAC Motor Control	I	—
3	22	BU/WH	3174	Air Inlet Door Stepper Motor Control 2	I	—
4	22	BN/GN	3175	Air Inlet Door Stepper Motor Control 3	I	—
5	—	—	—	Not Occupied	—	—
6	22	RD/GN	3176	Air Inlet Door Stepper Motor Control 4	I	—

M6 Air Temperature Door Actuator



2220563

Connector Part Information

Harness Type: HVAC
OEM Connector: 1519302
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F Micro-Quadlock Series (BK)

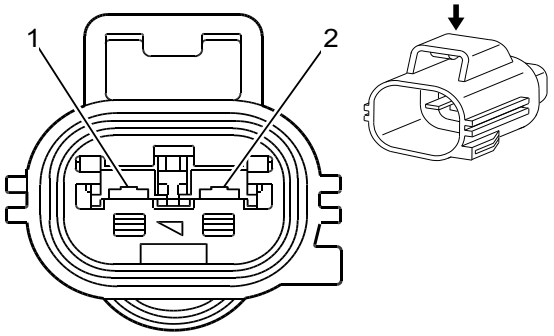
Terminal Part Information

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

M6 Air Temperature Door Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	22	GN	3169	Temp Door Stepper Motor Control 1	I	—
2	22	BK	7572	HVAC Motor Control	I	—
3	22	WH/PK	3170	Temp Door Stepper Motor Control 2	I	—
4	22	GY/RD	3171	Temp Door Stepper Motor Control 3	I	—
5	—	—	—	Not Occupied	—	—
6	22	RD/BK	3172	Temp Door Stepper Motor Control 4	I	—

M9 Brake Booster Pump Motor



1826248

Connector Part Information

Harness Type: Engine
OEM Connector: 7282-5575-10
Service Connector: 19368267
Description: 2-Way M 2.8 Series, Sealed (D-GY)

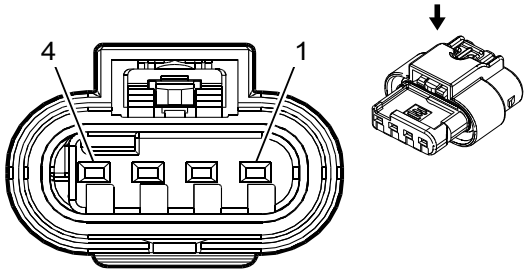
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

M9 Brake Booster Pump Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	BN/VT	1470	Brake Booster Pump Motor Control	I	—
2	2.5	BK	1450	Ground	I	—

M26 Front Axle Engagement Actuator



2596543

Connector Part Information

Harness Type: Power Steering
OEM Connector: 1-1456426-5
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.2 MCP Series, Sealed (BK)

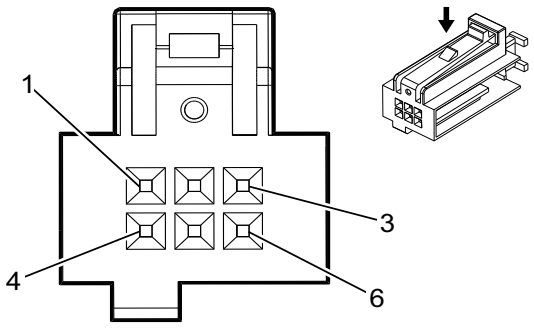
Terminal Part Information

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

M26 Front Axle Engagement Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	—
2	0.5	GY/BK	1570	Front Axle Actuator Control	I	—
3	0.5	YE/WH	1695	Four Wheel Drive Wheel Lock Indicator Control	I	—
4	0.75	BK	1450	Ground	I	—

M37 Mode Door Actuator



2220563

Connector Part Information

Harness Type: HVAC
OEM Connector: 1519302
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F Micro-Quadlock Series (BK)

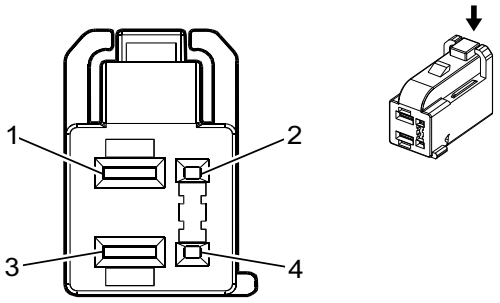
Terminal Part Information

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

M37 Mode Door Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	22	YE	3165	Mode Door Stepper Motor Control 1	I	—
2	22	BK	7572	HVAC Motor Control	I	—
3	22	WH/RD	3166	Mode Door Stepper Motor Control 2	I	—
4	22	GY/BN	3167	Mode Door Stepper Motor Control 3	I	—
5	—	—	—	Not Occupied	—	—
6	22	GN/WH	3168	Mode Door Stepper Motor Control 4	I	—

M51D Seat Horizontal Motor - Driver



3683652

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: 3-023-66-52
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 0.64, 2.8 Series (BN)

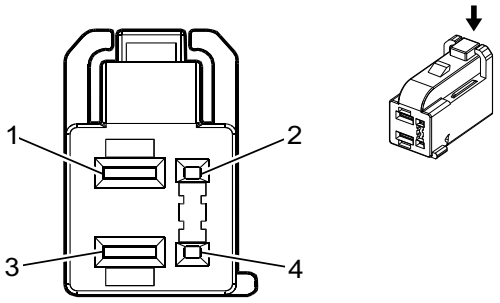
Terminal Part Information

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

M51D Seat Horizontal Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	YE/BU	285	Driver Power Seat Horizontal Motor Forward Control	I	—
2	—	—	—	Not Occupied	—	—
3	1.5	GY/GN	284	Driver Power Seat Horizontal Motor Rearward Control	I	—
4	—	—	—	Not Occupied	—	—

M51P Seat Horizontal Motor - Passenger (AAQ)



3683652

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 3-023-66-52
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 0.64, 2.8 Series (BN)

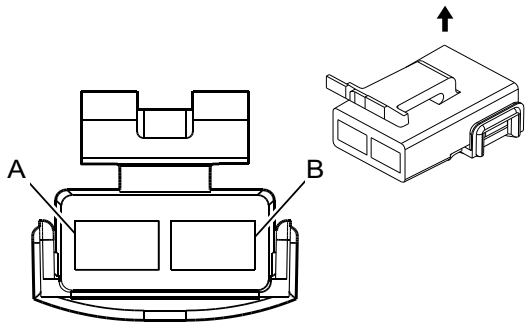
Terminal Part Information

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

M51P Seat Horizontal Motor - Passenger (AAQ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	YE/WH	296	Passenger Power Seat Horizontal Motor Forward Control	I	—
2	—	—	—	Not Occupied	—	—
3	1.5	YE/BU	290	Passenger Power Seat Horizontal Motor Rearward Control	I	—
4	—	—	—	Not Occupied	—	—

M52D Seat Lumbar Support Horizontal Motor - Driver (AL9)



130707

Connector Part Information

Harness Type: Driver Seat Back
OEM Connector: 12020556
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 480 Metri-Pack Series (BK)

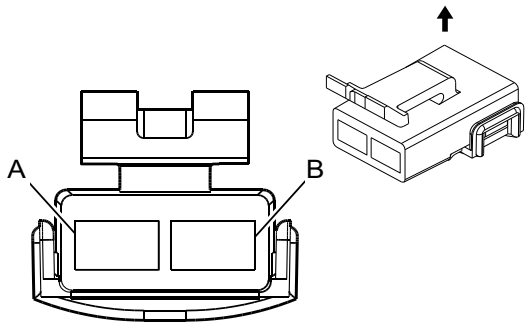
Terminal Part Information

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

M52D Seat Lumbar Support Horizontal Motor - Driver (AL9)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT	610	Driver Power Seat Lumbar Motor Rearward Control	I	—
B	1.5	BU	611	Driver Power Seat Lumbar Motor Forward Control	I	—

M52P Seat Lumbar Support Horizontal Motor - Passenger (AAQ)



130707

Connector Part Information

Harness Type: Passenger Seat Back
OEM Connector: 12020556
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 480 Metri-Pack Series (BK)

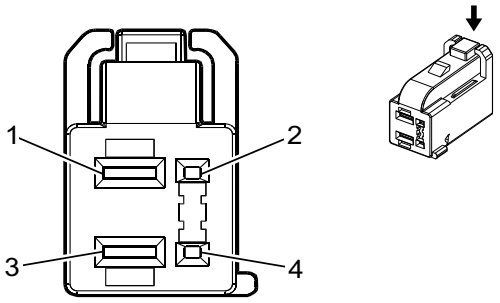
Terminal Part Information

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

M52P Seat Lumbar Support Horizontal Motor - Passenger (AAQ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT	210	Passenger Power Seat Lumbar Motor Rearward Control	I	—
B	1.5	BU	211	Passenger Power Seat Lumbar Motor Forward Control	I	—

M55D Seat Rear Vertical Motor - Driver



3683652

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: 3-023-66-52
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 0.64, 2.8 Series (BN)

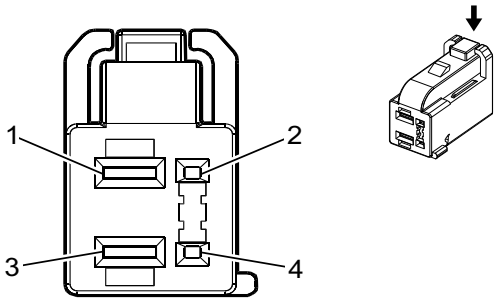
Terminal Part Information

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

M55D Seat Rear Vertical Motor - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GY/BU	283	Driver Power Seat Rear Vertical Motor Down Control	I	—
2	—	—	—	Not Occupied	—	—
3	1.5	YE	282	Driver Power Seat Rear Vertical Motor Up Control	I	—
4	—	—	—	Not Occupied	—	—

M55P Seat Rear Vertical Motor - Passenger (AAQ)



3683652

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 3-023-66-52
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 0.64, 2.8 Series (BN)

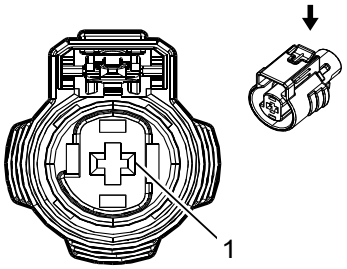
Terminal Part Information

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

M55P Seat Rear Vertical Motor - Passenger (AAQ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1.5	GN/WH	288	Passenger Power Seat Rear Vertical Motor Up Control	I	—
2	—	—	—	Not Occupied	—	—
3	1.5	BU/WH	289	Passenger Power Seat Rear Vertical Motor Down Control	I	—
4	—	—	—	Not Occupied	—	—

M64 Starter Motor X1



2717134

Connector Part Information

Harness Type: Engine
OEM Connector: 2098198-5
Service Connector: 19300471
Description: 1-Way F 2.8 MCP Series, Sealed (BK)

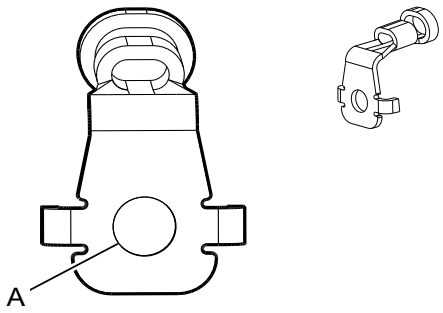
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

M64 Starter Motor X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	YE	2	Battery Positive Voltage	I	-LCV/LGZ
	2.5	YE	6	Starter Solenoid Crank Ignition Voltage	II	LGZ

M64 Starter Motor X2 (LGZ)



4069670

Connector Part Information

Harness Type: Battery Cable Positive
OEM Connector: BBS47641
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way Ring Terminal

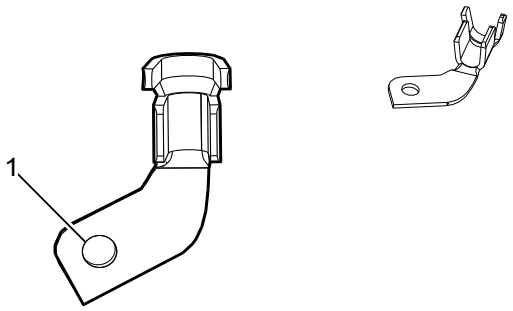
Terminal Part Information

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 X2 (LGZ)

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

M64 Starter Motor X2 (LWN)



4293880

Connector Part Information

Harness Type: Battery Cable Positive
OEM Connector: BBS17174
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 X2 (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
A	50	RD/YE	2	Battery Positive Voltage	I	—

M73A Seat Blower Motor - Driver Back (KU1)

—

Connector Part Information

Harness Type: Drivers Seat Back
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way

Terminal Part Information

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

M73A Seat Blower Motor - Driver Back (KU1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	1239	Run/Crank Ignition 1 Voltage	I	—
2	0.5	GN/VT	5906	Driver Seat Vent Motor Control 1	I	—
3	0.5	BK	2150	Ground	I	—

M73B Seat Blower Motor - Passenger Back (KU3)

—

Connector Part Information

Harness Type: Passenger Seat Back
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way

Terminal Part Information

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

M73B Seat Blower Motor - Passenger Back (KU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	1239	Run/Crank Ignition 1 Voltage	I	—
2	0.5	VT/WH	5908	Passenger Seat Vent Motor Control 1	I	—
3	0.5	BK	2250	Ground	I	—

M73C Seat Blower Motor - Driver Cushion (KU1)

—

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way

Terminal Part Information

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

M73C Seat Blower Motor - Driver Cushion (KU1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	1239	Run/Crank Ignition 1 Voltage	I	—
2	0.5	GN/VT	5906	Driver Seat Vent Motor Control 1	I	—
3	0.5	BK	2150	Ground	I	—

M73D Seat Blower Motor - Passenger Cushion (KU3)

—

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way

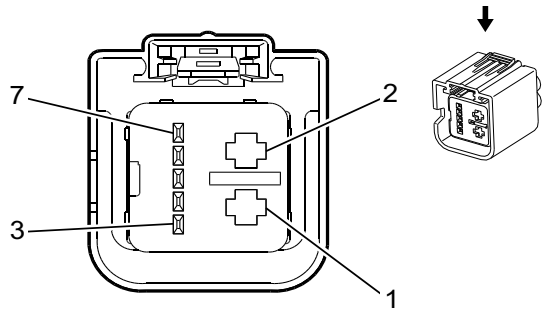
Terminal Part Information

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

M73D Seat Blower Motor - Passenger Cushion (KU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	1239	Run/Crank Ignition 1 Voltage	I	—
2	0.5	VT/WH	5908	Passenger Seat Vent Motor Control 1	I	—
3	0.5	BK	2250	Ground	I	—

M74D Window Motor - Driver



2282932

Connector Part Information

Harness Type: Driver Door
OEM Connector: 1-1732115-1
Service Connector: Service by Harness - See Part Catalog
Description: 7-Way F 0.64, 2.8 Kaizen Timer Series, Sealed (GY)

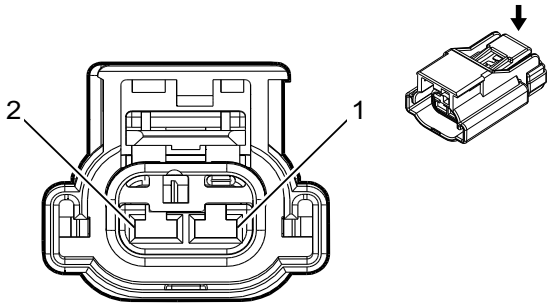
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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-35616-64B (LT BU)	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	2.5	BK	3550	Ground	I	—
2	2.5	RD/BU	1240	Battery Positive Voltage	I	—
3	0.35	GN/WH	1300	Power Window Master Switch Left Front Up Signal	II	—
4	0.5	GN/YE	6134	Local Interconnect Network Serial Data Bus 3	II	—
5	0.35	GN/VT	7628	Power Window Motor Left Front Express Control	II	—
6	0.35	GY	745	Left Front Door Ajar Switch Signal	II	—
7	0.35	GY	1136	Power Window Master Switch Left Front Down Signal	II	—

M74LR Window Motor - Left Rear (Crew Cab)



2716333

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 54200220N
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 2.8 Series, Sealed (BK)

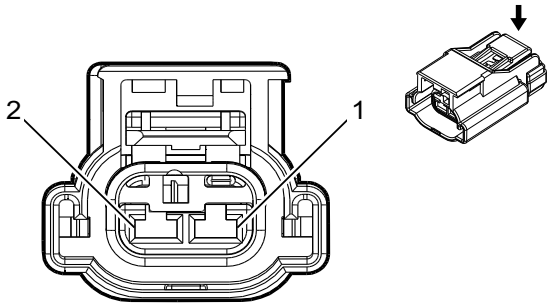
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

M74LR Window Motor - Left Rear (Crew Cab)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	BU/VT	668	Power Window Motor Left Rear Up Control	I	—
2	2.5	YE/BU	669	Power Window Motor Left Rear Down Control	I	—

M74P Window Motor - Passenger



2716333

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 54200220N
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 2.8 Series, Sealed (BK)

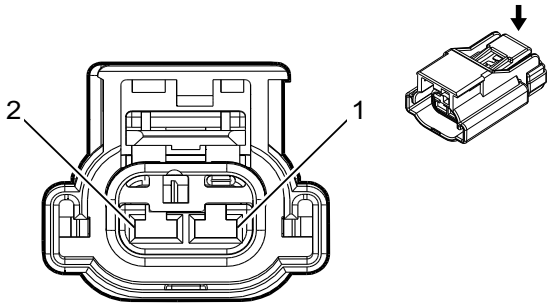
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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	2.5	YE/BU	3388	Power Window Motor Passenger Down Control	I	—
2	2.5	GN/GY	3387	Power Window Motor Passenger Up Control	I	—

M74RR Window Motor - Right Rear



2716333

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 54200220N
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 2.8 Series, Sealed (BK)

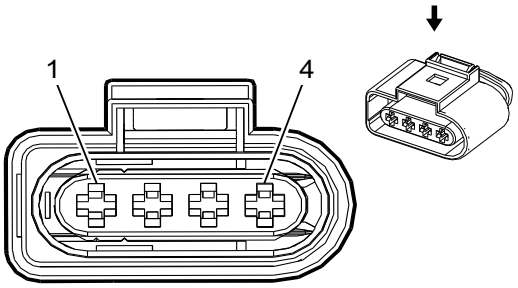
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

M74RR Window Motor - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	BU/GY	670	Power Window Motor Right Rear Up Control	I	—
2	2.5	GN/BK	671	Power Window Motor Right Rear Down Control	I	—

M75 Windshield Wiper Motor



2474722

Connector Part Information

Harness Type: Body
OEM Connector: 638245-2
Service Connector: 19367598
Description: 4-Way F Junior Power Timer Series (BK)

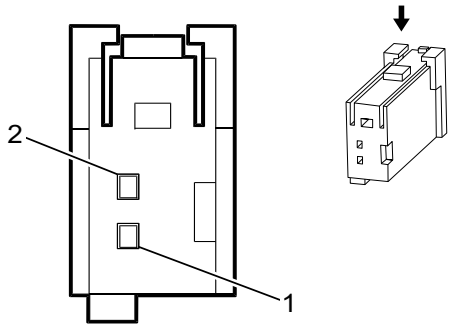
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-4A (PU)	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	0.5	BN/GN	196	Windshield Wiper Motor Park Switch Signal	I	—
2	1.5	YE/BN	95	Windshield Wiper Motor Low Speed Control	I	—
3	1.5	BK	3150	Ground	I	—
4	1.5	WH	92	Windshield Wiper Motor High Speed Control	I	—

M93 Key Capture Solenoid Actuator



2173598

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: AIT2PB-02A-1AK
Service Connector: 13314093
Description: 2-Way F 0.64 Series (BK)

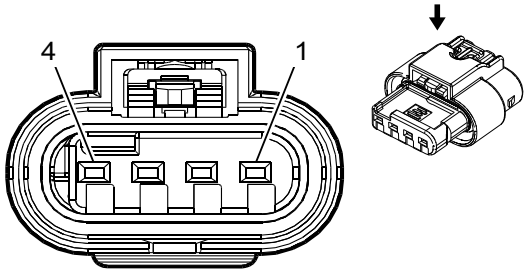
Terminal Part Information

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

M93 Key Capture Solenoid Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT/YE	143	Accessory Ignition Voltage	I	—
2	0.35	BK	2050	Ground	I	—

M96A Active Grille Air Shutter 1 Actuator



2596543

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 13576420
Service Connector: Not Available
Description: 4-Way F 1.2 MCP Series, Sealed (BK)

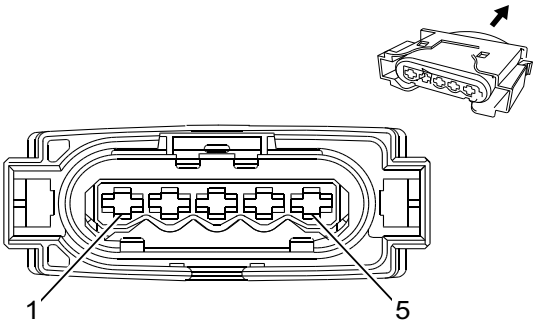
Terminal Part Information

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

M96A Active Grille Air Shutter 1 Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/VT	4333	Aero Shutter Actuator Control	I	—
2	0.5	GY	3890	Aero Shutter Control 2	I	—
3	—	—	—	Not Occupied	—	—
4	0.75	BK	1250	Ground	I	—

M103 Turbocharger Vane Position Actuator



3794114

Connector Part Information

Harness Type: Engine
OEM Connector: 09-4415-81
Service Connector: 19368141
Description: 5-Way F 2.8 SLK Series (BK)

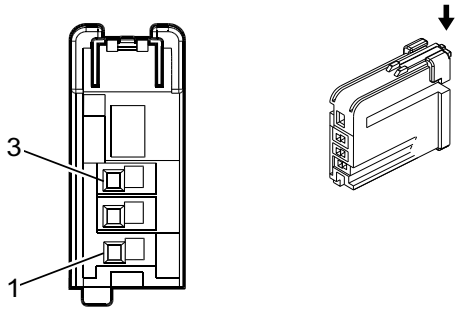
Terminal Part Information

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/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	—

P2 Transmission Shift Lever Position Indicator



2831062

Connector Part Information

Harness Type: Floor Console
OEM Connector: AIT2PB-03B-1AK
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 0.64 Series (BK)

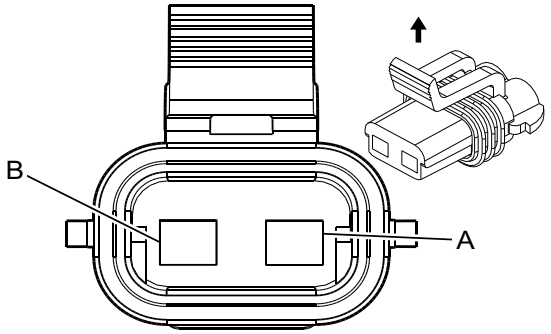
Terminal Part Information

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

P2 Transmission Shift Lever Position Indicator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	VT	801	Retained Accessory Power Fuse Control	I	—
2	0.5	GN/BU	6133	Local Interconnect Network Serial Data Bus 2	I	—
3	0.5	BK	2050	Ground	I	K4C
	0.35	BK	2050	Ground	I	M5T/MYB

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)

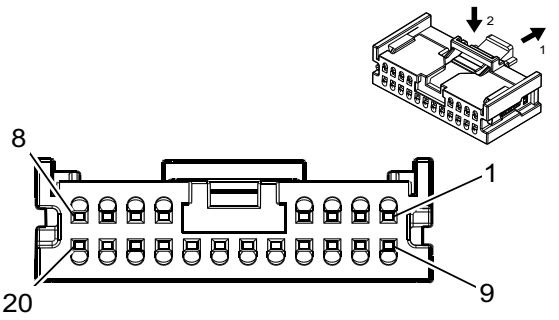
Terminal Part Information

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	0.75	GY	1624	Trailer Backup Lamp Control	I	—
B	0.75	BK	22	Trailer Ground	I	—

P9 Driver Information Center Display X1



4695009

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 34824-2201
Service Connector: 13596106
Description: 20-Way F Mini 50 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	19333221	EL-35616-58 (BK)	J-38125-553	Not Available	Not Available	Not Available	Not Available

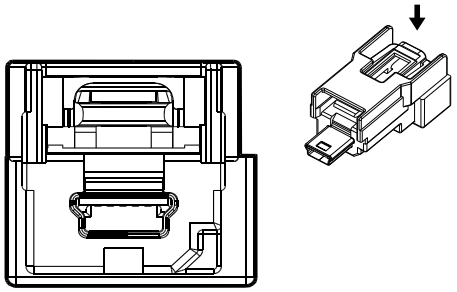
P9 Driver Information Center Display X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY/BN	3761	Infotainment Regulated Control	I	—
2	0.35	BN/GN	3364	Navigation Display Reset Signal	I	—
3	0.35	GY/BU	2803	Radio Display Touch Interrupt Request Signal	I	—
4	0.35	BN	2814	Radio Display Low Voltage Differential Signaling Lock Signal	I	—
5	0.35	GY/YE	6972	Camera Signal 2 +	I	—
6	0.35	WH/BU	6973	Camera Signal 2	I	—
7	0.35	GY/YE	6972	Camera Signal 2 +	I	—
8	0.35	WH/BU	6973	Camera Signal 2	I	—
9	—	—	—	Not Occupied	—	—
10	0.35	GY/VT	2812	Radio Display Low Voltage Differential Signaling Error Signal	I	—
11	0.35	GN/BK	2805	Radio Keypad Ground Return	I	—
12	0.35	BK/GN	2804	Radio Display Backlight Low Reference	I	—
13	0.35	BK/YE	2806	Radio Keypad Low Reference	I	—
14	0.35	GY/BN	3761	Infotainment Regulated Control	I	—
15	0.35	BU/GY	2808	Radio Keypad Dimming Control	I	—
16	—	—	—	Not Occupied	—	—
17	0.35	GN/BK	2515	Keypad Control	I	—

P9 Driver Information Center Display X1 (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
18	0.35	GN/BK	2515	Keypad Control	I	—
19	0.35	GN/WH	24	Backup Lamp Control	I	—
20	—	—	—	Not Occupied	—	—

P9 Driver Information Center Display X2



3530733

Connector Part Information

Harness Type: Instrument Panel LVDS
OEM Connector: 13579208
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (BK)

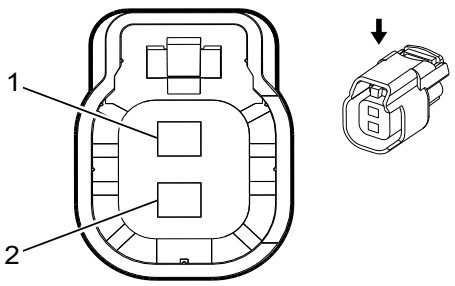
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

P9 Driver Information Center Display X2

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

P13 Horn Assembly (LCV/ZR2)



2422378

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 34062-0028
Service Connector: 13579002
Description: 2-Way F 1.5 Series, Sealed (BK)

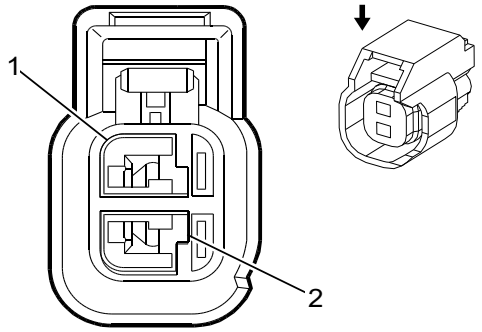
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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 (LCV/ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1150	Ground	I	—
2	0.75	BN/GY	29	Horn Control	I	—

P13 Horn Assembly (LGZ/LWN)



2179765

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 88988857
Service Connector: 13585854
Description: 2-Way F 150 GT Series, Sealed (BK)

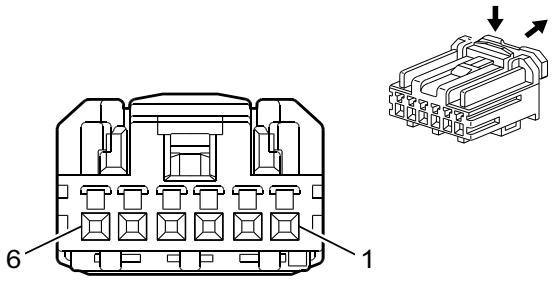
Terminal Part Information

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

P13 Horn Assembly (LGZ/LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1150	Ground	I	—
2	0.75	BN/GY	29	Horn Control	I	—

P14 Passenger Air Bag Disabled Indicator



4650256

Connector Part Information

Harness Type: Headliner
OEM Connector: HCMPB-C06A-S
Service Connector: 19367172
Description: 6-Way F 0.64 HCM Series (NA)

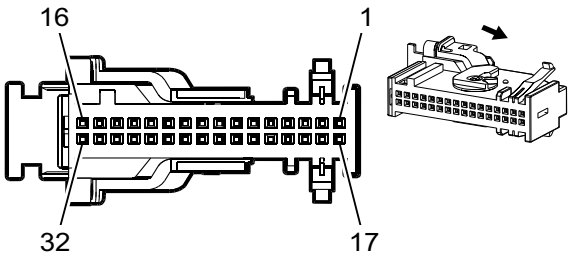
Terminal Part Information

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

P14 Passenger Air Bag Disabled Indicator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BU	2307	Passenger Air Bag On Indicator Control	I	—
2	0.5	BK	3150	Ground	I	—
3	0.35	GN	2308	Passenger Air Bag Off Indicator Control	I	—
4	0.35	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
5	0.35	VT/WH	5234	Passenger Seat Belt Indicator Control	I	—
6	—	—	—	Not Occupied	—	—

P16 Instrument Cluster (UDC/UDD)



627214

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 90587345
Service Connector: 88988405
Description: 32-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	13575584	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	13575859	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

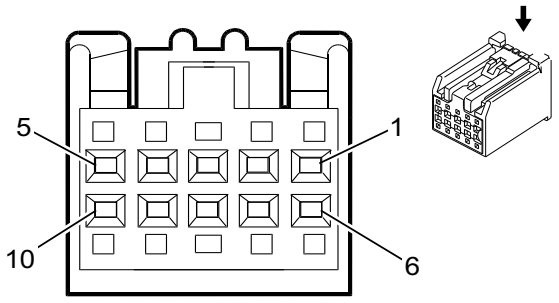
P16 Instrument Cluster (UDC/UDD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/L-GN	3997	MOST Serial Data (-)	II	—
2	0.5	GY/VT	3998	MOST Serial Data (+)	II	—
3	0.5	GY/GN	1102	Low Speed GMLAN Serial Data #2	II	—
4	—	—	—	Not Occupied	—	—
5	0.35	WH/VT	3999	MOST Control	I	—
6	—	—	—	Not Occupied	—	—
7	0.5	RD/GY	2840	Battery Positive Voltage	II	—
8	0.5	VT/BK	1639	Run/Crank Ignition 1 Voltage	II	—
9	0.35	GY/L-BU	893	Driver Information Center Select Menu Switch Signal	I	—
10 - 11	—	—	—	Not Occupied	—	—
12	0.35	GY/YE	3885	Forward Collision Alert LED Control	I	—
13	0.35	BK/BN	897	Driver Information Center Switch Low Reference	I	—
14	0.35	L-GN/WH	1358	Driver Information Center Switch Signal	I	—
15	—	—	—	Not Occupied	—	—
16	0.35	BN/WH	419	Check Engine Indicator Control	I	—
17	0.5	GY/VT	3998	MOST Serial Data (+)	II	—
18	0.5	WH/L-GN	3997	MOST Serial Data (-)	II	—
19	0.5	BK/WH	2151	Signal Ground	II	—

P16 Instrument Cluster (UDC/UDD) (cont'd)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
20	0.5	L-GN/BK	3894	Local Interconnect Network Serial Data Bus 12	II	—
21 - 23	—	—	—	Not Occupied	—	—
24	0.35	VT	185	Low Washer Fluid Indicator Control	I	—
25 - 29	—	—	—	Not Occupied	—	—
30	0.35	WH/L-GN	3535	Reflected LED Display Dimming Control	I	—
31	—	—	—	Not Occupied	—	—
32	0.35	L-GN/BN	507	Wait To Start Indicator Control	I	—

P17 Info Display Module X1



2180211

Connector Part Information

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

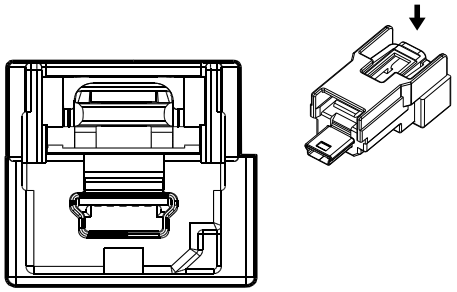
Terminal Part Information

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

P17 Info Display Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/GY	2840	Battery Positive Voltage	I	—
2	—	—	—	Not Occupied	—	—
3	0.5	GY/GN	1102	Low Speed GMLAN Serial Data #2	I	—
4	—	—	—	Not Occupied	—	—
5	0.5	GN/BU	7532	Local Interconnect Network Serial Data Bus 10	I	—
6 - 7	—	—	—	Not Occupied	—	—
8	0.5	GN/WH	7527	Local Interconnect Network Serial Data Bus 5	I	—
9	—	—	—	Not Occupied	—	—
10	0.35	BK/WH	2051	Signal Ground	I	—

P17 Info Display Module X3



3530733

Connector Part Information

Harness Type: Instrument Panel USB
OEM Connector: 13576692
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (BK)

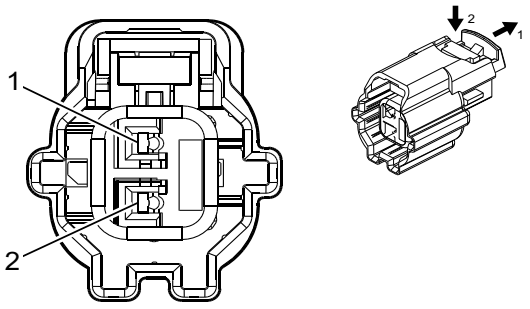
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

P17 Info Display Module X3

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

P19AG Speaker - Left Front Door



4840334

Connector Part Information

Harness Type: Driver Door
OEM Connector: 148032-0005
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 MX Series (BK)

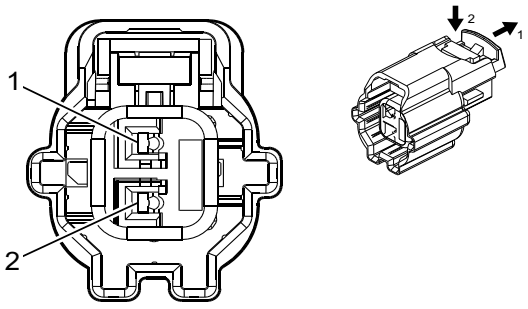
Terminal Part Information

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

P19AG Speaker - Left Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BN/BU	118	Left Front Speaker Signal (-) 1	I	—
2	1	BU	201	Left Front Speaker Control (+) 1	I	—

P19AH Speaker - Right Front Door



4840334

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 148032-0005
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 MX Series (BK)

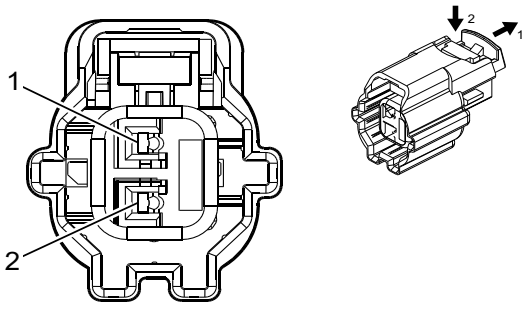
Terminal Part Information

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

P19AH Speaker - Right Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
2	1	YE	200	Right Front Speaker Control (+) 1	I	—

P19AL Speaker - Left Rear Door



4840334

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 148032-0005
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 MX Series (BK)

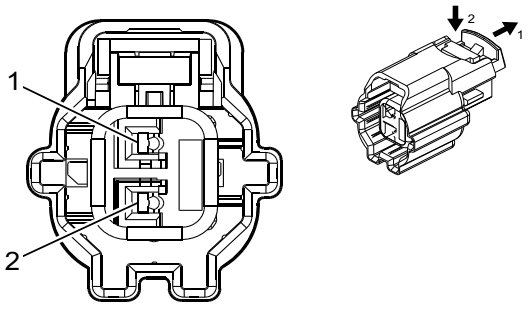
Terminal Part Information

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

P19AL Speaker - Left Rear Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	GN/BK	116	Left Rear Speaker Signal (-)	I	—
2	1	GN	199	Left Rear Speaker Control (+)	I	—

P19AM Speaker - Right Rear Door



4840334

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 148032-0005
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 150 MX Series (BK)

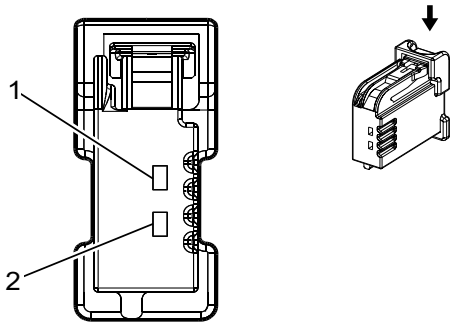
Terminal Part Information

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

P19AM Speaker - Right Rear Door

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

P19B Speaker - Center Instrument Panel



2179775

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 6098-5527
Service Connector: 13314097
Description: 2-Way F 1.5 Series (GY)

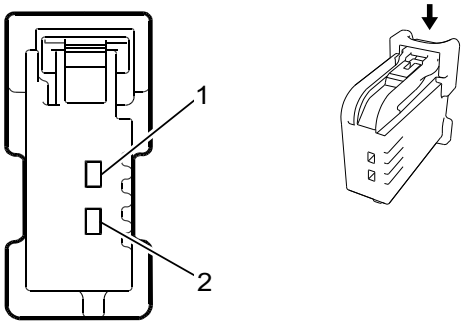
Terminal Part Information

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

P19B Speaker - Center Instrument Panel

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

P19H Speaker - Left Front Tweeter (UQ3)



2173586

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 6098-5510
Service Connector: 13584097
Description: 2-Way F 1.5 Series (BK)

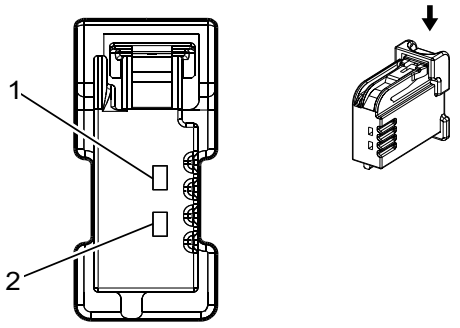
Terminal Part Information

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

P19H Speaker - Left Front Tweeter (UQ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/BU	118	Left Front Speaker Signal (-) 1	I	—
2	0.75	BU	201	Left Front Speaker Control (+) 1	I	—

P19H Speaker - Left Front Tweeter (UQA)



2179775

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 6098-5527
Service Connector: 13314097
Description: 2-Way F 1.5 Series (GY)

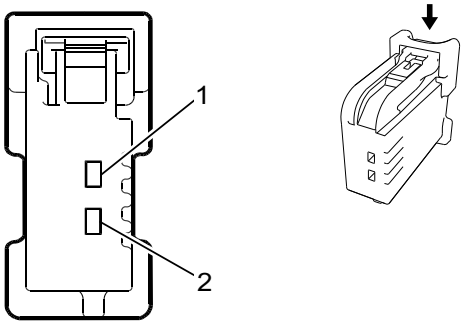
Terminal Part Information

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-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

P19H Speaker - Left Front Tweeter (UQA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN/BU	118	Left Front Speaker Signal (-) 1	I	UQ3
	0.75	BN/BU	118	Left Front Speaker Signal (-) 1	II	UQA
2	0.75	BU	201	Left Front Speaker Control (+) 1	I	UQ3
	0.75	BU	201	Left Front Speaker Control (+) 1	II	UQA

P19V Speaker - Right Front Tweeter (UQ3)



2173586

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 6098-5510
Service Connector: 13584097
Description: 2-Way F 1.5 Series (BK)

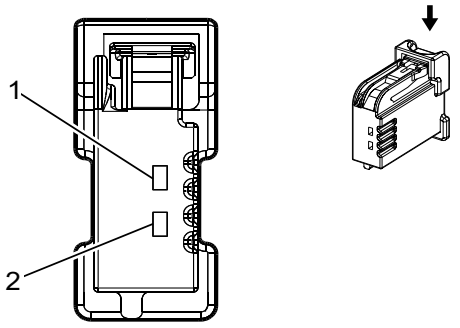
Terminal Part Information

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

P19V Speaker - Right Front Tweeter (UQ3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
2	0.75	YE	200	Right Front Speaker Control (+) 1	I	—

P19V Speaker - Right Front Tweeter (UQA)



2179775

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 6098-5527
Service Connector: 13314097
Description: 2-Way F 1.5 Series (GY)

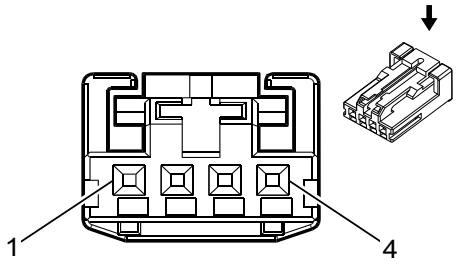
Terminal Part Information

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

P19V Speaker - Right Front Tweeter (UQA)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
2	0.75	YE	200	Right Front Speaker Control (+) 1	I	—

P43 Collision Alert Indicators



2717162

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 936119-1
Service Connector: 13587297
Description: 4-Way F 0.64 Micro-Quadlock Series (BK)

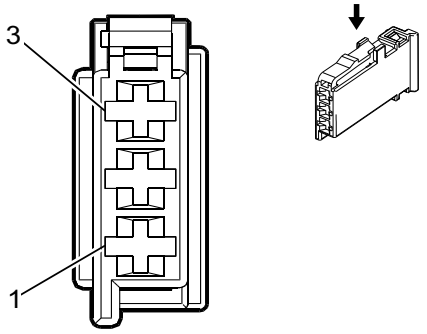
Terminal Part Information

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/GN	3535	Reflected LED Display Dimming Control	I	—
4	0.35	BK/WH	2151	Signal Ground	I	—

P46 Mobile Device Wireless Charger Indicators



2039656

Connector Part Information

Harness Type: Floor Console
OEM Connector: 1452142-1
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 1.6 Micro-Timer Series (BK)

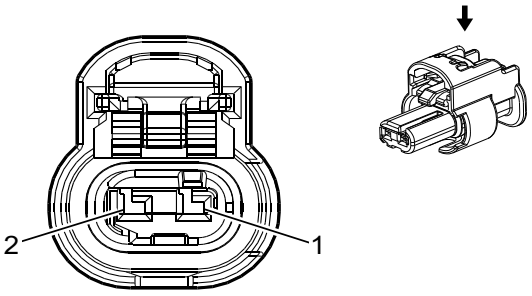
Terminal Part Information

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

P46 Mobile Device Wireless Charger Indicators

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH	6816	Indicator Dimming Control	I	—
2	0.35	GN	4512	Wireless Charging System Charge Indicator Control	I	—
3	0.35	BN	4511	Wireless Charging System Fault Indicator Control	I	—

Q2 A/C Compressor Clutch (LCV/(LGZ-ZR2)/LWN)



4649903

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-1
Service Connector: 19366858
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

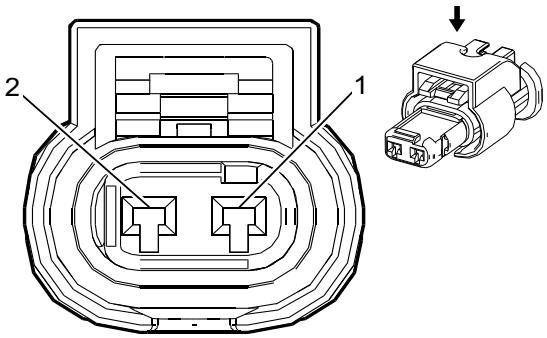
Terminal Part Information

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

Q2 A/C Compressor Clutch (LCV/(LGZ-ZR2)/LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	1450	Ground	I	—
2	0.75	BN/GN	59	A/C Compressor Clutch Control	I	—

Q2 A/C Compressor Clutch (LGZ+ZR2)



2474752

Connector Part Information

Harness Type: Engine
OEM Connector: 1-1823608-5
Service Connector: 19329415
Description: 2-Way F 1.2 MCP Series, Sealed (BK)

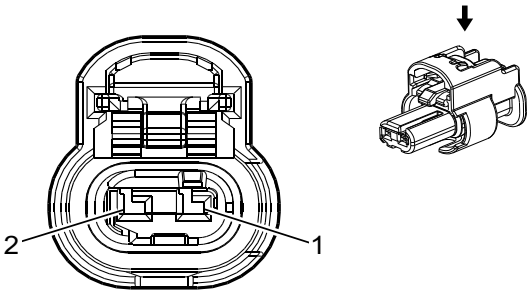
Terminal Part Information

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

Q2 A/C Compressor Clutch (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	1450	Ground	I	—
2	0.75	BN/GN	59	A/C Compressor Clutch Control	I	—

Q2 A/C Compressor Clutch (LWN)



4649903

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-1
Service Connector: 19366858
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

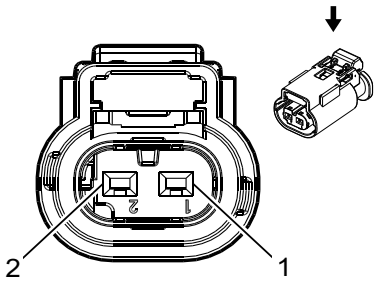
Terminal Part Information

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

Q2 A/C Compressor Clutch (LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	1450	Ground	I	—
2	0.75	BN/L-GN	59	A/C Compressor Clutch Control	I	—

Q6A Camshaft Position Actuator Solenoid Valve - Bank 1 Exhaust (LGZ+ZR2)



2717037

Connector Part Information

Harness Type: Engine
OEM Connector: 10010338
Service Connector: 13587325
Description: 2-Way F 1.2 Multilock Series, Sealed (L-GY)

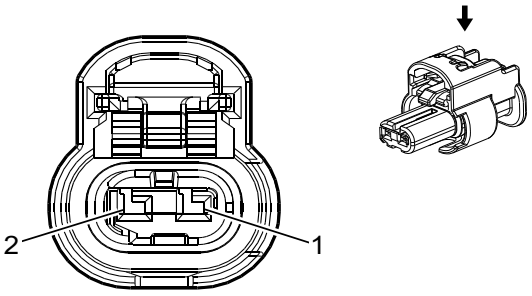
Terminal Part Information

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

Q6A Camshaft Position Actuator Solenoid Valve - Bank 1 Exhaust (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BU	5282	Camshaft Phaser Exhaust Solenoid 1	I	—
2	0.5	BK/VT	6754	Cam Phaser X Low Reference	I	—

Q6A Camshaft Position Actuator Solenoid Valve - Bank 1 Exhaust (LGZ-ZR2)



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON-CB Series, Sealed (BK)

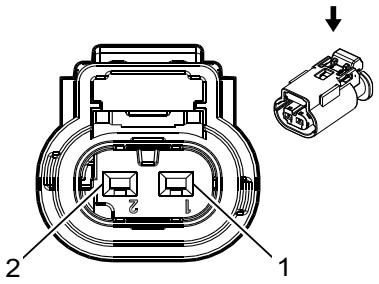
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q6A Camshaft Position Actuator Solenoid Valve - Bank 1 Exhaust (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BU	5282	Camshaft Phaser Exhaust Solenoid 1	I	—
2	0.5	BK/VT	6754	Cam Phaser X Low Reference	I	—

Q6B Camshaft Position Actuator Solenoid Valve - Bank 1 Intake (LGZ+ZR2)



2717037

Connector Part Information

Harness Type: Engine
OEM Connector: 10010338
Service Connector: 13587325
Description: 2-Way F 1.2 Multilock Series, Sealed (L-GY)

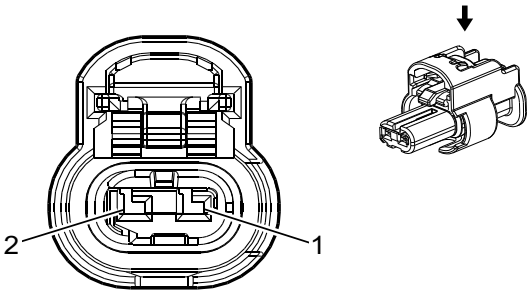
Terminal Part Information

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

Q6B Camshaft Position Actuator Solenoid Valve - Bank 1 Intake (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	I	—
2	0.5	BK/BN	6753	Cam Phaser W Low Reference	I	—

Q6B Camshaft Position Actuator Solenoid Valve - Bank 1 Intake (LGZ-ZR2)



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON-CB Series, Sealed (BK)

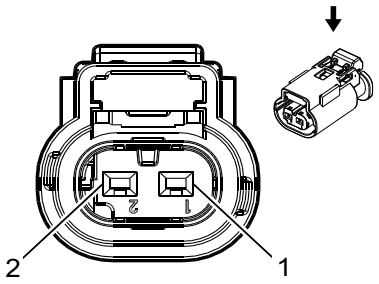
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q6B Camshaft Position Actuator Solenoid Valve - Bank 1 Intake (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	I	—
2	0.5	BK/BN	6753	Cam Phaser W Low Reference	I	—

Q6C Camshaft Position Actuator Solenoid Valve - Bank 2 Exhaust (LGZ+ZR2)



2717037

Connector Part Information

Harness Type: Engine
OEM Connector: 10010338
Service Connector: 13587325
Description: 2-Way F 1.2 Multilock Series, Sealed (L-GY)

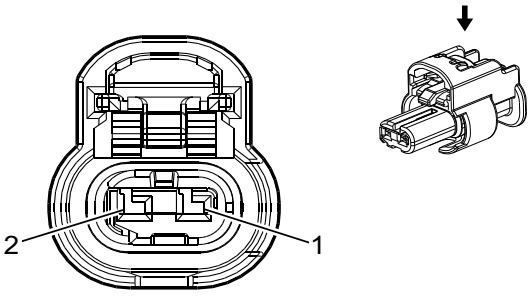
Terminal Part Information

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

Q6C Camshaft Position Actuator Solenoid Valve - Bank 2 Exhaust (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/BN	5283	Camshaft Phaser Exhaust Solenoid 2	I	—
2	0.5	BK/GY	6756	Cam Phaser Z Low Reference	I	—

Q6C Camshaft Position Actuator Solenoid Valve - Bank 2 Exhaust (LGZ-ZR2)



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON-CB Series, Sealed (BK)

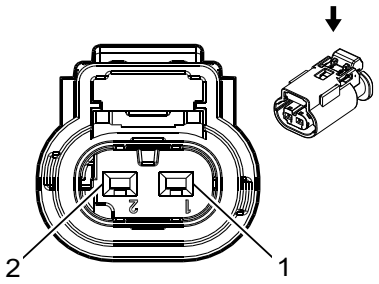
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q6C Camshaft Position Actuator Solenoid Valve - Bank 2 Exhaust (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/BN	5283	Camshaft Phaser Exhaust Solenoid 2	I	—
2	0.5	BK/GY	6756	Cam Phaser Z Low Reference	I	—

Q6D Camshaft Position Actuator Solenoid Valve - Bank 2 Intake (LGZ+ZR2)



2717037

Connector Part Information

Harness Type: Engine
OEM Connector: 10010338
Service Connector: 13587325
Description: 2-Way F 1.2 Multilock Series, Sealed (L-GY)

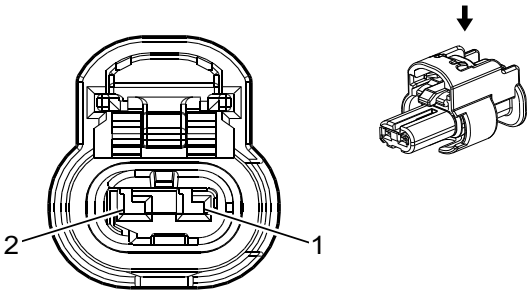
Terminal Part Information

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

Q6D Camshaft Position Actuator Solenoid Valve - Bank 2 Intake (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN	5272	Camshaft Phaser Intake Solenoid 2	I	—
2	0.5	BK/BU	6755	Cam Phaser Y Low Reference	I	—

Q6D Camshaft Position Actuator Solenoid Valve - Bank 2 Intake (LGZ-ZR2)



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON-CB Series, Sealed (BK)

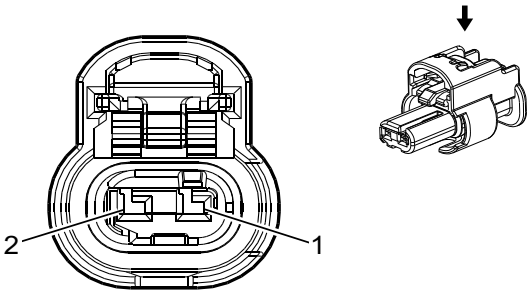
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q6D Camshaft Position Actuator Solenoid Valve - Bank 2 Intake (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN	5272	Camshaft Phaser Intake Solenoid 2	I	—
2	0.5	BK/BU	6755	Cam Phaser Y Low Reference	I	—

Q6E Camshaft Position Actuator Solenoid Valve - Exhaust



4649903

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-1
Service Connector: 19366858
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

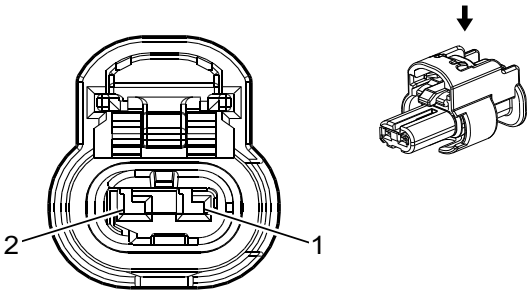
Terminal Part Information

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

Q6E Camshaft Position Actuator Solenoid Valve - Exhaust

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BU	5282	Camshaft Phaser Exhaust Solenoid 1	I	—
2	0.5	BK/VT	6754	Cam Phaser X Low Reference	I	—

Q6F Camshaft Position Actuator Solenoid Valve - Intake



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON-CB Series, Sealed (BK)

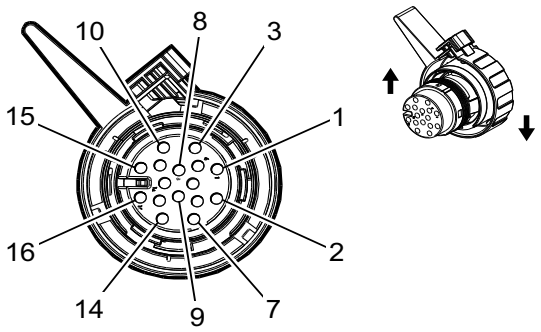
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q6F Camshaft Position Actuator Solenoid Valve - Intake

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BN	5284	Camshaft Phaser Intake Solenoid 1	I	—
2	0.5	BK/BN	6753	Cam Phaser W Low Reference	I	—

Q8 Control Solenoid Valve Assembly X1 (MYB)



3277917

Connector Part Information

Harness Type: Engine
OEM Connector: 9430734
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	13578934	J-35616-66 (YE)	J-38125-28	2 21 24 47220 0	Yazaki 12	E	1

Q8 Control Solenoid Valve Assembly X1 (MYB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	WH/GY	1786	Transmission Park/Neutral Signal 1	I	—
4	0.75	RD/GN	1840	Battery Positive Voltage	I	—
5	0.75	BK/WH	1451	Signal Ground	I	—
6 - 8	—	—	—	Not Occupied	—	—
9	0.5	VT/YE	5985	Accessory Wakeup Serial Data	I	—
10	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
11	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
12	0.5	VT/BK	2139	Run/Crank Ignition 1 Voltage	I	—
13	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—
14	0.5	BU	2500	High Speed GMLAN Serial Data (+) 1	I	—
15 - 16	—	—	—	Not Occupied	—	—

Q8 Control Solenoid Valve Assembly X2 (MYB)

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Connector Part Information

Harness Type: Transmission
OEM Connector: 89046635
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way

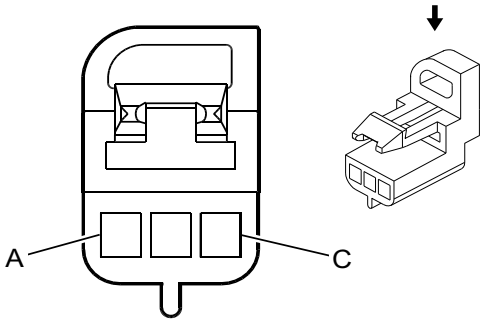
Terminal Part Information

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

Q8 Control Solenoid Valve Assembly X2 (MYB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	GY	—	Ground	I	—
B	0.35	BK	—	Transmission Range Switch Signal P	I	—
C	0.35	YE	—	Transmission Range Switch Signal C	I	—
D	0.35	RD	—	Transmission Range Switch Signal B	I	—
E	0.35	GN	—	Transmission Range Switch Signal A	I	—
F	0.35	WH	—	Park/Neutral Switch Signal	I	—

Q8 Control Solenoid Valve Assembly X3 (MYB)



2334125

Connector Part Information

Harness Type: Transmission
OEM Connector: 13539487
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 150 Metri-Pack Series (BK)

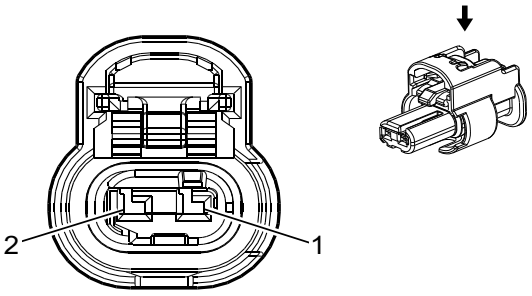
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q8 Control Solenoid Valve Assembly X3 (MYB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	GN	—	Input Speed Sensor (ISS) Signal	I	—
B	0.35	RD	—	ISS/OSS Supply Voltage	I	—
C	0.35	BK	—	Output Speed Sensor (OSS) Signal	I	—

Q9F Differential Lock Actuator - Front



4649903

Connector Part Information

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

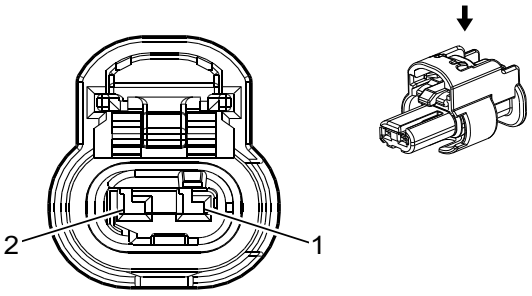
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q9F Differential Lock Actuator - Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/WH	7256	Front Differential Lock Actuator Supply Voltage	I	—
2	1	WH/BK	7254	Front Differential Lock Actuator Low Control	I	—

Q9R Differential Lock Actuator - Rear



4649903

Connector Part Information

Harness Type: Chassis
OEM Connector: 1-2296694-1
Service Connector: 19366858
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

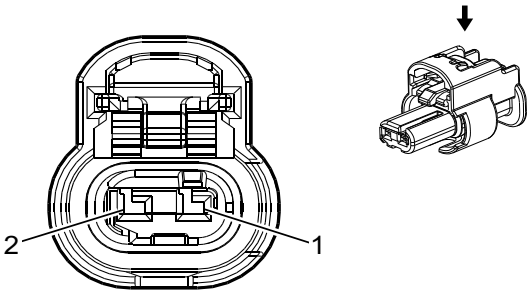
Terminal Part Information

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

Q9R Differential Lock Actuator - Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	VT/BN	7258	Rear Differential Lock Actuator Supply Voltage	I	—
2	1	GY/BK	7253	Rear Differential Lock Actuator Low Control	I	—

Q12 Evaporative Emission Purge Solenoid Valve



4649903

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-1
Service Connector: 19366858
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

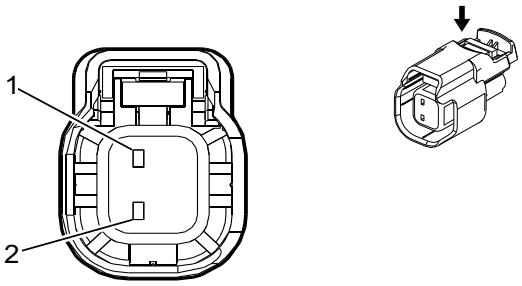
Terminal Part Information

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

Q12 Evaporative Emission Purge Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	GN/BU	428	EVAP Canister Purge Solenoid Control	I	—

Q13 Evaporative Emission Vent Solenoid Valve



3028817

Connector Part Information

Harness Type: Chassis
OEM Connector: 13580239
Service Connector: 19352404
Description: 2-Way F 1.5 Series, Sealed (BK)

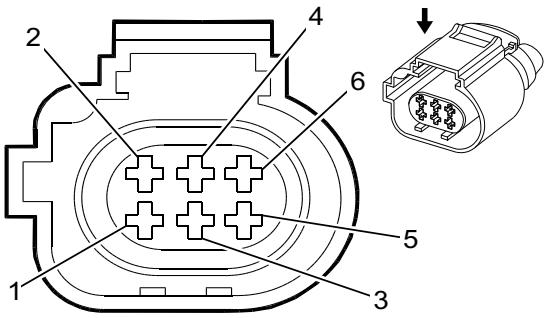
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (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/GN	2440	Battery Positive Voltage	I	—

Q14 Exhaust Gas Recirculation Valve



2216905

Connector Part Information

Harness Type: Engine
OEM Connector: 284716-3
Service Connector: 19368732
Description: 6-Way F 1.6 Micro-Timer Series, Sealed (BN)

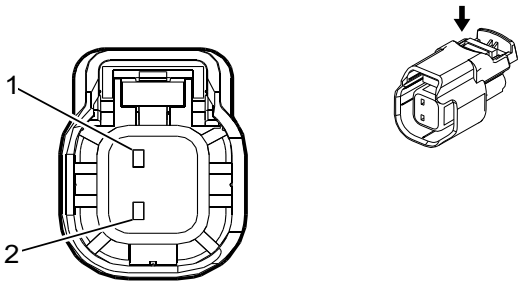
Terminal Part Information

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	BU/RD	5047	Exhaust Gas Recirculation 5V Reference 1	I	—

Q17A Fuel Injector 1 (LCV)



3028817

Connector Part Information

Harness Type: Fuel Rail
OEM Connector: 13503508
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

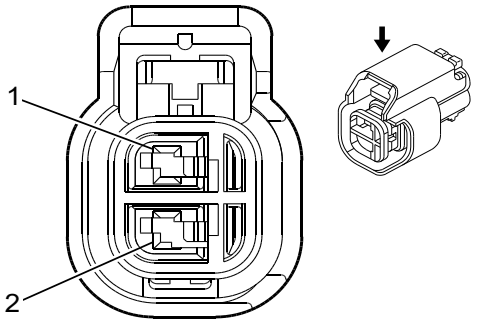
Terminal Part Information

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

Q17A Fuel Injector 1 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	—
2	0.75	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	—

Q17A Fuel Injector 1 (LGZ)



1659331

Connector Part Information

Harness Type: Bank 1 Fuel Rail
OEM Connector: E-2157
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

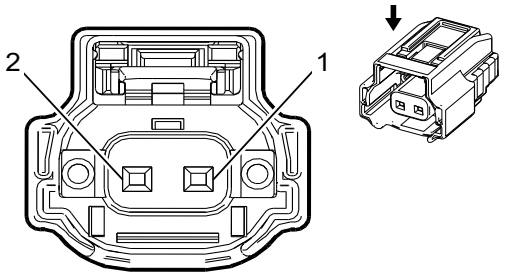
Terminal Part Information

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

Q17A Fuel Injector 1 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	—
2	0.5	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	—

Q17A Fuel Injector 1 (LWN)



2498869

Connector Part Information

Harness Type: Engine
OEM Connector: 6189-7138
Service Connector: 13407097
Description: 2-Way F (BK)

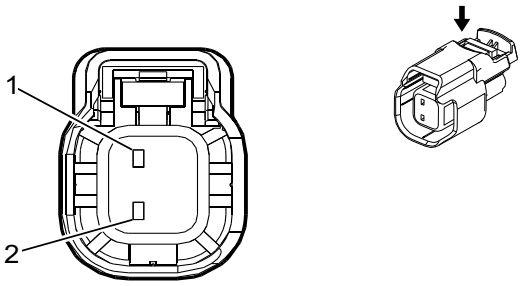
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	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	—

Q17B Fuel Injector 2 (LCV)



3028817

Connector Part Information

Harness Type: Fuel Rail
OEM Connector: 13503508
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

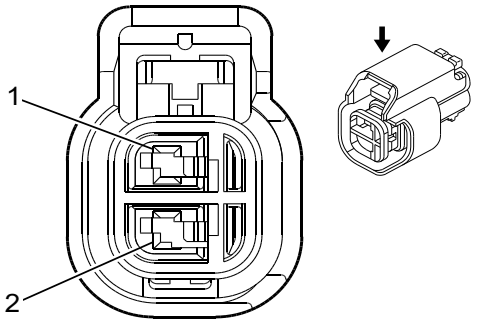
Terminal Part Information

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

Q17B Fuel Injector 2 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	—
2	0.75	BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	—

Q17B Fuel Injector 2 (LGZ)



1659331

Connector Part Information

Harness Type: Bank 2 Fuel Rail
OEM Connector: E-2157
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

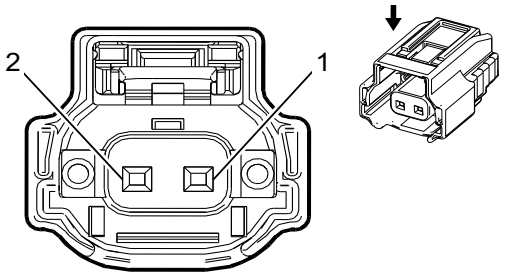
Terminal Part Information

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

Q17B Fuel Injector 2 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	—
2	0.5	BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	—

Q17B Fuel Injector 2 (LWN)



2498869

Connector Part Information

Harness Type: Engine
OEM Connector: 6189-7138
Service Connector: 13407097
Description: 2-Way F (BK)

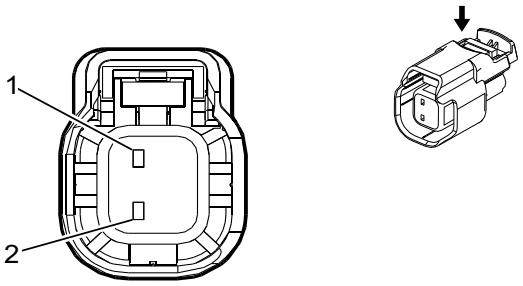
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	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	BU/GY	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	—
2	1.5	BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	—

Q17C Fuel Injector 3 (LCV)



3028817

Connector Part Information

Harness Type: Fuel Rail
OEM Connector: 13503508
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

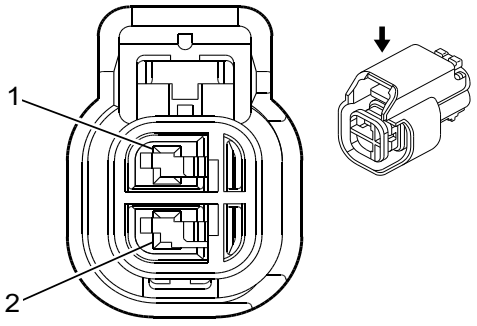
Terminal Part Information

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

Q17C Fuel Injector 3 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	—
2	0.75	GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	—

Q17C Fuel Injector 3 (LGZ)



1659331

Connector Part Information

Harness Type: Bank 1 Fuel Rail
OEM Connector: E-2157
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

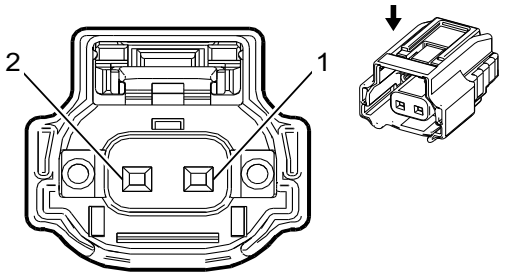
Terminal Part Information

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

Q17C Fuel Injector 3 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	—
2	0.5	GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	—

Q17C Fuel Injector 3 (LWN)



2498869

Connector Part Information

Harness Type: Engine
OEM Connector: 6189-7138
Service Connector: 13407097
Description: 2-Way F (BK)

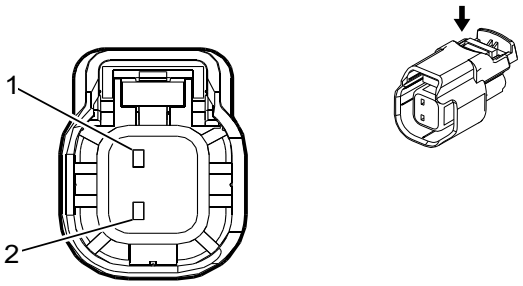
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	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	GN/GY	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	—
2	1.5	GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	—

Q17D Fuel Injector 4 (LCV)



3028817

Connector Part Information

Harness Type: Fuel Rail
OEM Connector: 13503508
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

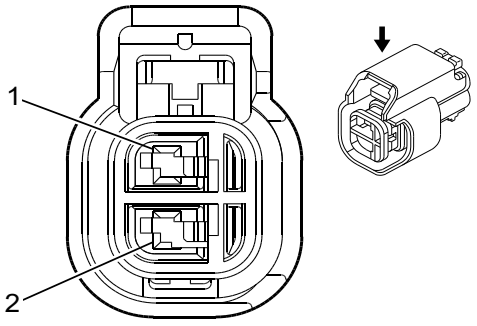
Terminal Part Information

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

Q17D Fuel Injector 4 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GY/BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	—
2	0.75	BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	—

Q17D Fuel Injector 4 (LGZ)



1659331

Connector Part Information

Harness Type: Bank 2 Fuel Rail
OEM Connector: E-2157
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

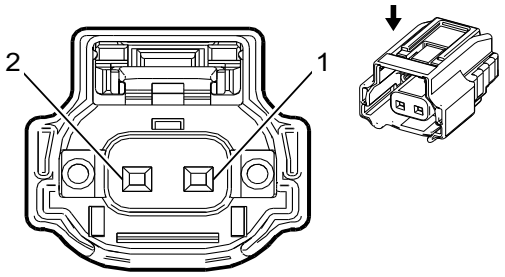
Terminal Part Information

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

Q17D Fuel Injector 4 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	—
2	0.5	BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	—

Q17D Fuel Injector 4 (LWN)



2498869

Connector Part Information

Harness Type: Engine
OEM Connector: 6189-7138
Service Connector: 13407097
Description: 2-Way F (BK)

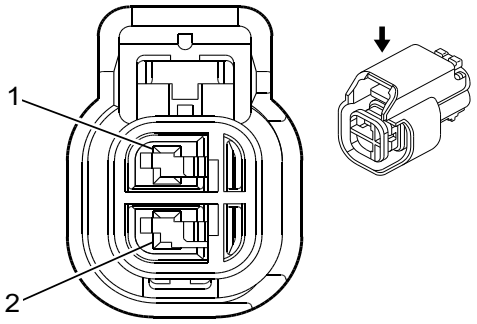
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-18 (BK)	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	BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	—
2	1.5	GY/BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	—

Q17E Fuel Injector 5 (LGZ)



1659331

Connector Part Information

Harness Type: Bank 1 Fuel Rail
OEM Connector: E-2157
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

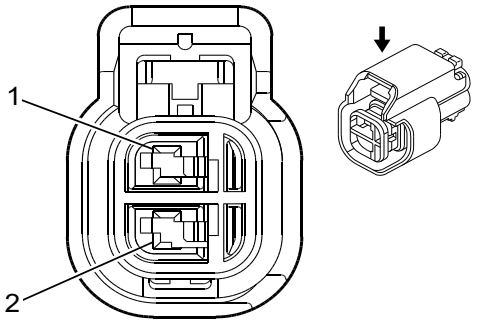
Terminal Part Information

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 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/GN	4805	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	I	—
2	0.5	GN/WH	4905	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	I	—

Q17F Fuel Injector 6 (LGZ)



1659331

Connector Part Information

Harness Type: Bank 2 Fuel Rail
OEM Connector: E-2157
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.5 Series, Sealed (BK)

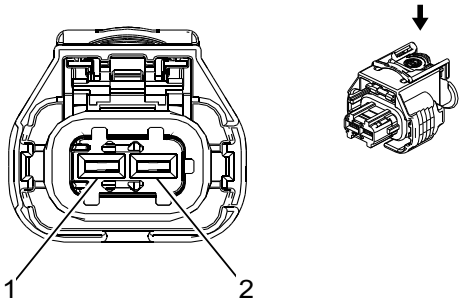
Terminal Part Information

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 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/GN	4806	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	I	—
2	0.5	VT/GY	4906	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	I	—

Q18A Fuel Pressure Regulator 1



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405521
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

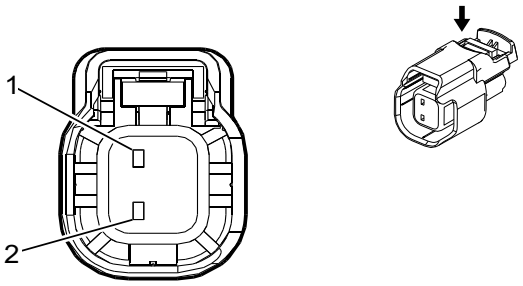
Terminal Part Information

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	—

Q18B Fuel Pressure Regulator 2



3028817

Connector Part Information

Harness Type: Engine
OEM Connector: 13580239
Service Connector: 19352404
Description: 2-Way F 1.5 Series, Sealed (BK)

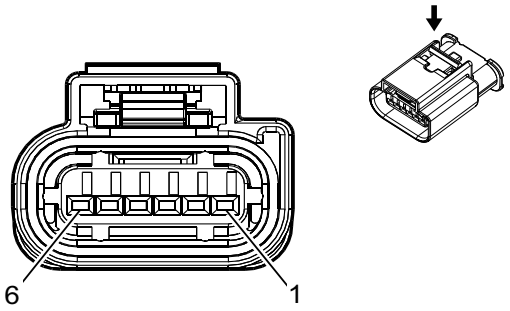
Terminal Part Information

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	BU/WH	2530	Fuel Rail Pressure Solenoid Control	I	—
2	0.5	BK/YE	2834	Fuel Rail Pressure Solenoid Low Reference	I	—

Q38 Throttle Body



3747579

Connector Part Information

Harness Type: Engine
OEM Connector: 2272975-5
Service Connector: 19352911
Description: 6-Way F 1.2 MCON Series, Sealed (BK)

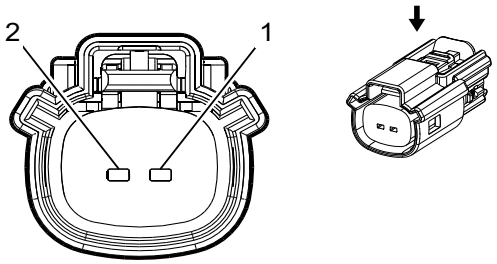
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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/WH	582	Throttle Actuator Control Close	I	—
3	0.5	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	—	—

Q44 Engine Oil Pressure Control Solenoid Valve (LCV)



2474713

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0206
Service Connector: 13577534
Description: 2-Way F 1.5 Series, Sealed (BK)

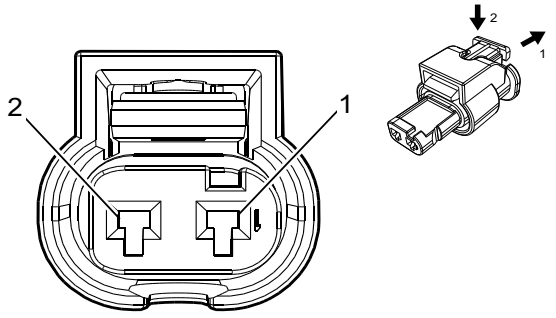
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q44 Engine Oil Pressure Control Solenoid Valve (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	BU	179	Oil Pump Command Signal	I	—

Q44 Engine Oil Pressure Control Solenoid Valve (LGZ)



4284830

Connector Part Information

Harness Type: Oil Pressure Control Solenoid Valve Jumper
OEM Connector: 13587570
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.2 MCON Series (BN)

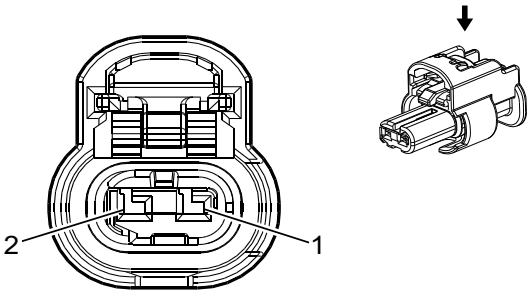
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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 (LGZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	—	BU	179	Oil Pump Command Signal	I	—

Q46 A/C Compressor Solenoid Valve (LCV/(LGZ-ZR2)/LWN)



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON-CB Series, Sealed (BK)

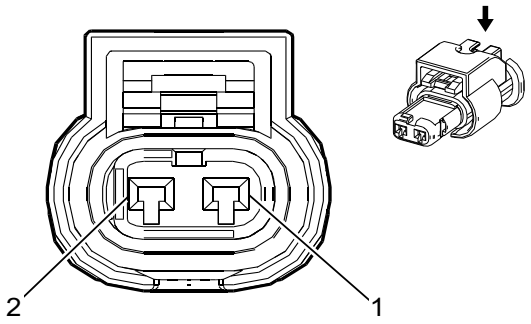
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q46 A/C Compressor Solenoid Valve (LCV/(LGZ-ZR2)/LWN)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BU/YE	7574	Electric Variable Displacement Control	I	—
2	0.75	BU/BN	7573	Electric Variable Displacement Supply	I	—

Q46 A/C Compressor Solenoid Valve (LGZ+ZR2)



2851901

Connector Part Information

Harness Type: Engine
OEM Connector: 2-1823608-5
Service Connector: 19299928
Description: 2-Way F 1.2 MCP Series, Sealed (BK)

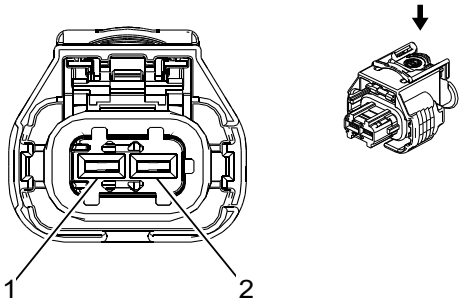
Terminal Part Information

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

Q46 A/C Compressor Solenoid Valve (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BU/YE	7574	Electric Variable Displacement Control	I	—
2	0.75	BU/BN	7573	Electric Variable Displacement Supply	I	—

Q47 Exhaust Gas Recirculation Cooler Bypass Solenoid Valve



2577394

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405521
Service Connector: 13384371
Description: 2-Way F 2.8 Series, Sealed (BK)

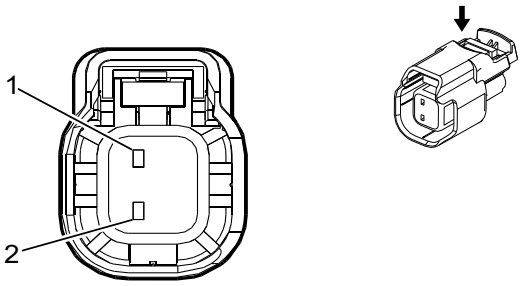
Terminal Part Information

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/BU	3231	Exhaust Gas Recirculation Cooler Bypass Solenoid Control	I	—
2	0.5	GY/BU	3230	Exhaust Gas Recirculation Cooler Bypass Solenoid Control	I	—

Q61 Reductant Injector



3028817

Connector Part Information

Harness Type: Engine
OEM Connector: 13580239
Service Connector: 19352404
Description: 2-Way F 1.5 Series, Sealed (BK)

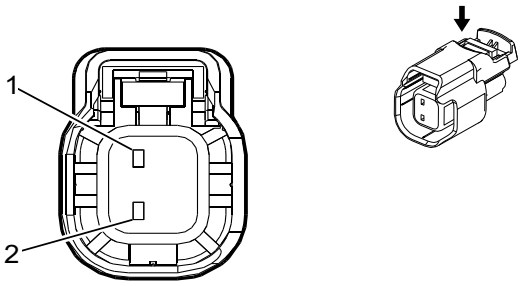
Terminal Part Information

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	—

Q67 Exhaust Aftertreatment Fuel Injector



3028817

Connector Part Information

Harness Type: Chassis
OEM Connector: 34062-0025
Service Connector: 13580230
Description: 2-Way F 1.5 Series, Sealed (BK)

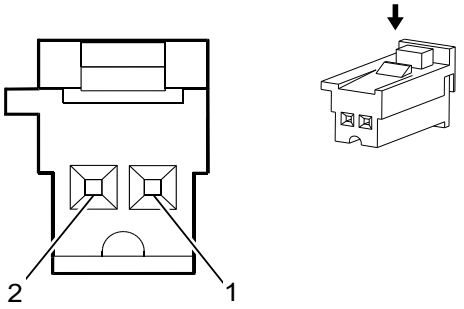
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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	0.5	VT/BN	2927	Hydrocarbon Injector Low Control	I	—
2	0.5	BN/BU	2926	Hydrocarbon Injector High Control	I	—

Q77A Transmission Control Solenoid Valve 1 (M5T)



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)

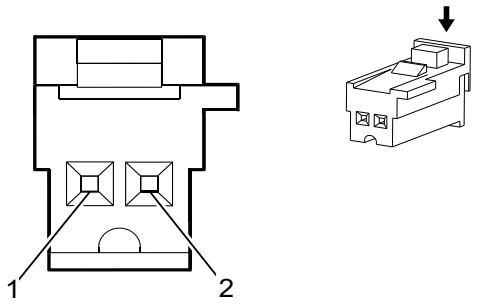
Terminal Part Information

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

Q77A Transmission Control Solenoid Valve 1 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	6400	Clutch A Control	I	—
2	0.5	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

Q77A Transmission Control Solenoid Valve 2 (M5T)



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)

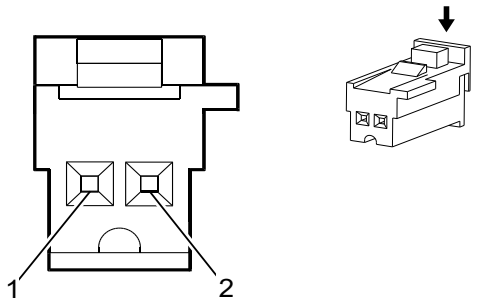
Terminal Part Information

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

Q77A Transmission Control Solenoid Valve 2 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU	6401	Clutch B Control	I	—
2	0.5	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

Q77A Transmission Control Solenoid Valve 3 (M5T)



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)

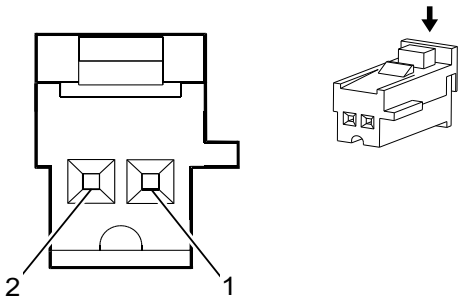
Terminal Part Information

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

Q77A Transmission Control Solenoid Valve 3 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY	6402	Clutch C Control	I	—
2	0.5	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

Q77A Transmission Control Solenoid Valve 4 (M5T)



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)

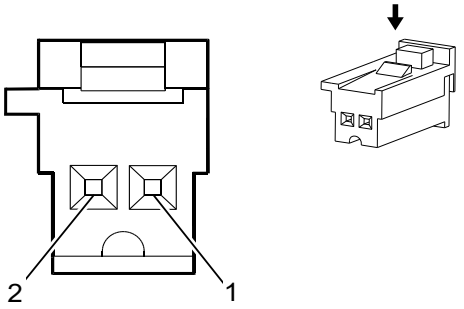
Terminal Part Information

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

Q77A Transmission Control Solenoid Valve 4 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	4508	Transmission Clutch G Control	I	—
2	0.5	GN/GY	6387	Transmission High Side Driver 1 Signal Driver	I	—

Q77A Transmission Control Solenoid Valve 5 (M5T)



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)

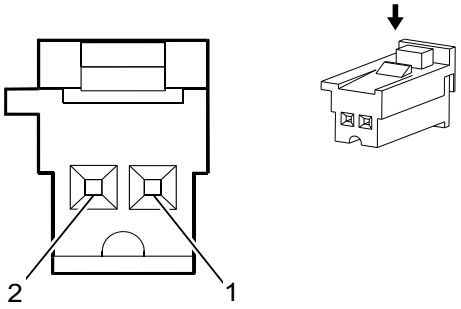
Terminal Part Information

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

Q77A Transmission Control Solenoid Valve 5 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BU	4507	Transmission Clutch H Control	I	—
2	0.5	GN/GY	6387	Transmission High Side Driver 1 Signal Driver	I	—

Q77A Transmission Control Solenoid Valve 6 (M5T)



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)

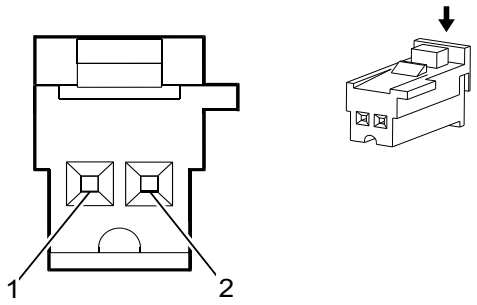
Terminal Part Information

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

Q77A Transmission Control Solenoid Valve 6 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/GN	6403	Clutch D Control	I	—
2	0.5	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

Q77A Transmission Control Solenoid Valve 7 (M5T)



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)

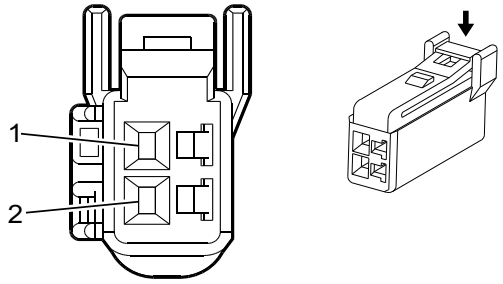
Terminal Part Information

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

Q77A Transmission Control Solenoid Valve 7 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BN	6404	Clutch E Control	I	—
2	0.5	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—

Q77A Transmission Control Solenoid Valve 8 (M5T)



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)

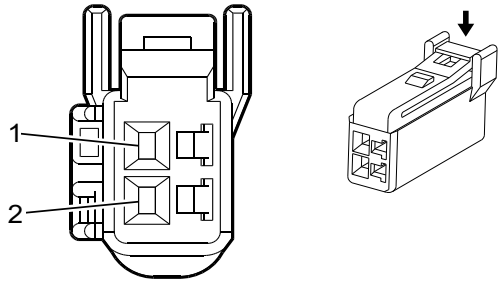
Terminal Part Information

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

Q77A Transmission Control Solenoid Valve 8 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/GY	6387	Transmission High Side Driver 1 Signal Driver	I	—
2	0.5	GN/WH	6380	TCC On/Off Solenoid A Control	I	—

Q77A Transmission Control Solenoid Valve 9 (M5T)



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)

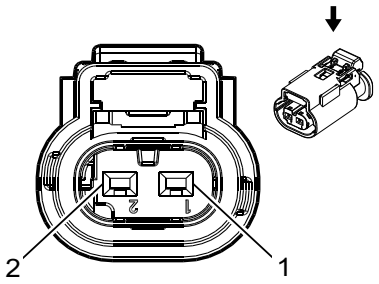
Terminal Part Information

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

Q77A Transmission Control Solenoid Valve 9 (M5T)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BN	6388	Transmission High Side Driver 2 Signal	I	—
2	0.5	YE/BN	6210	TCC On/Off Solenoid B Control	I	—

Q83A Valve Lifter Oil Solenoid Valve - Bank 1 (LGZ+ZR2)



2717037

Connector Part Information

Harness Type: Engine
OEM Connector: 10010338
Service Connector: 13587325
Description: 2-Way F 1.2 Multilock Series, Sealed (L-GY)

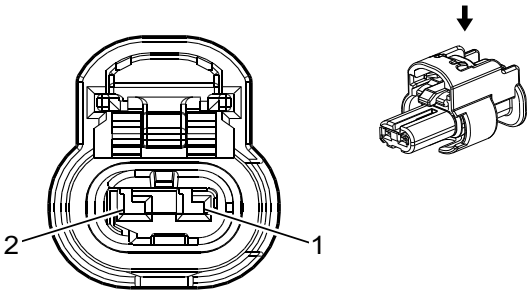
Terminal Part Information

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

Q83A Valve Lifter Oil Solenoid Valve - Bank 1 (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/L-BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	L-BU	5491	Cylinder Shutoff Solenoid Control 1	I	—

Q83A Valve Lifter Oil Solenoid Valve - Bank 1 (LGZ-ZR2)



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON-CB Series, Sealed (BK)

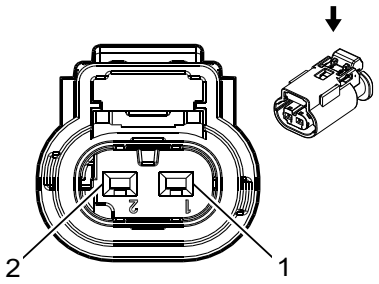
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q83A Valve Lifter Oil Solenoid Valve - Bank 1 (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	BU	5491	Cylinder Shutoff Solenoid Control 1	I	—

Q83B Valve Lifter Oil Solenoid Valve - Bank 2 (LGZ+ZR2)



2717037

Connector Part Information

Harness Type: Engine
OEM Connector: 10010338
Service Connector: 13587325
Description: 2-Way F 1.2 Multilock Series, Sealed (L-GY)

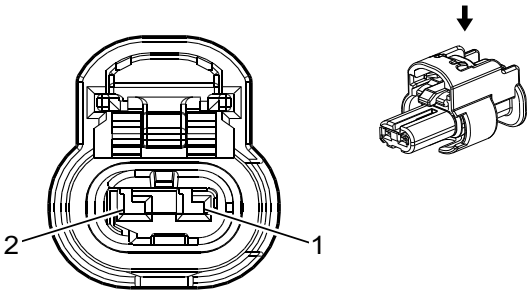
Terminal Part Information

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

Q83B Valve Lifter Oil Solenoid Valve - Bank 2 (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	GN	5492	Cylinder Shutoff Solenoid Control 2	I	—

Q83B Valve Lifter Oil Solenoid Valve - Bank 2 (LGZ-ZR2)



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON-CB Series, Sealed (BK)

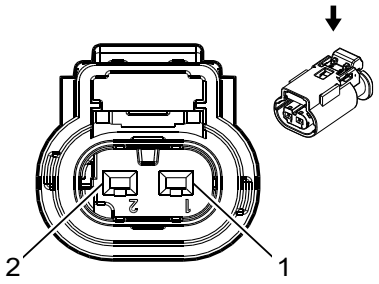
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q83B Valve Lifter Oil Solenoid Valve - Bank 2 (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	GN	5492	Cylinder Shutoff Solenoid Control 2	I	—

Q84A Camshaft Position Actuator Park Lock Solenoid Valve - Bank 1 Intake (LGZ+ZR2)



2717037

Connector Part Information

Harness Type: Engine
OEM Connector: 10010338
Service Connector: 13587325
Description: 2-Way F 1.2 Multilock Series, Sealed (L-GY)

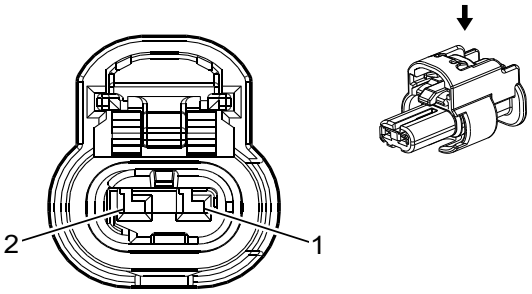
Terminal Part Information

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

Q84A Camshaft Position Actuator Park Lock Solenoid Valve - Bank 1 Intake (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	YE/GN	4321	Park Phaser Lock Control	I	—

Q84A Camshaft Position Actuator Park Lock Solenoid Valve - Bank 1 Intake (LGZ-ZR2)



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON-CB Series, Sealed (BK)

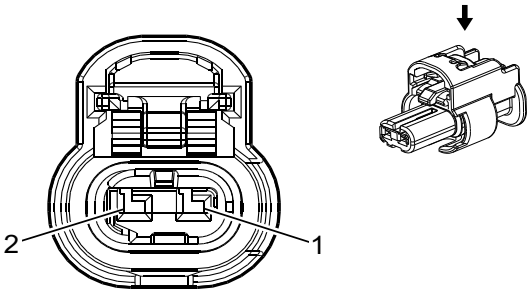
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q84A Camshaft Position Actuator Park Lock Solenoid Valve - Bank 1 Intake (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	YE/GN	4321	Park Phaser Lock Control	I	—

Q84B Camshaft Position Actuator Park Lock Solenoid Valve - Bank 2 Intake (LGZ-ZR2)



4335931

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296694-2
Service Connector: 19366843
Description: 2-Way F 1.2 MCON-CB Series, Sealed (BK)

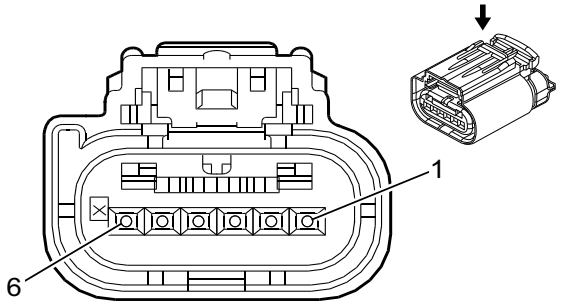
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

Q84B Camshaft Position Actuator Park Lock Solenoid Valve - Bank 2 Intake (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BU	5293	Powertrain Main Relay Fused Supply 4	I	—
2	0.5	GY/GN	587	Skip/Shift Solenoid Control	I	LGZ

Q85 Cooling Fan Clutch (LWN)



4279553

Connector Part Information

Harness Type: Cooling Fan Harness
OEM Connector: 1438153-6
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 GET Series, Sealed (BK)

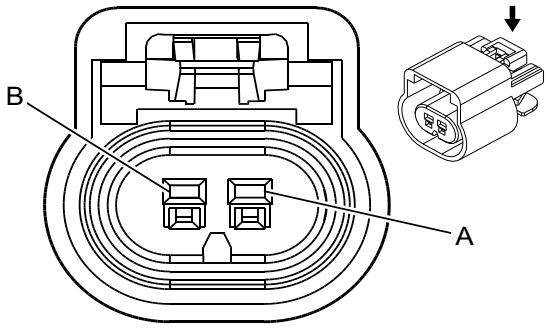
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	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
1	—	—	—	Not Occupied	—	—
2	0.5	WH/GN	2368	Cooling Fan Control Signal	I	—
3	0.5	GY/GN	2365	Cooling Fan Speed 5V Reference	I	—
4	0.5	GY/VT	2364	Cooling Fan Speed Signal	I	—
5	0.5	BK/GN	6141	Cooling Fan Speed Low Reference	I	—
6	0.5	BK/BK	550	Ground	I	—

R6A Terminating Resistor - High Speed Bus



523630

Connector Part Information

Harness Type: Chassis
OEM Connector: 13510085
Service Connector: 13580114
Description: 2-Way F 150 GT Series, Sealed (BK)

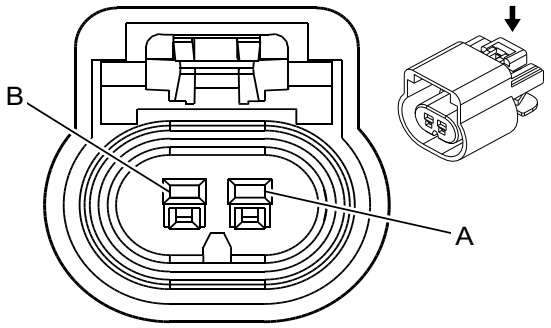
Terminal Part Information

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	—
B	0.5	WH	2501	High Speed GMLAN Serial Data (-) 1	I	—

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)

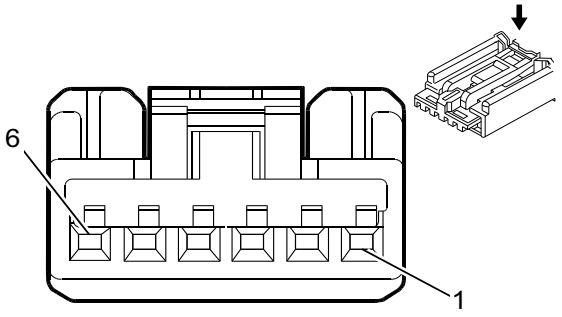
Terminal Part Information

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	—

S3 Transmission Shift Lever



1862240

Connector Part Information

Harness Type: Floor Console
OEM Connector: AIT2PB-06-1AK
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Kaizen Series (BK)

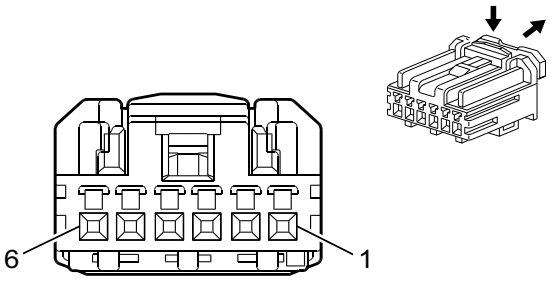
Terminal Part Information

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

S3 Transmission Shift Lever

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.5	BK	2050	Ground	I	—
3	0.35	VT/YE	5526	Tap Up/Tap Down Switch Signal	I	—
4	0.5	VT/BK	7553	Park Lock Solenoid Control	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	WH/VT	5905	Key Capture/Column Lock Shift Position Signal	I	—

S13D Door Lock Switch - Driver



4650256

Connector Part Information

Harness Type: Driver Door
OEM Connector: HCMPB-C06A-K
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 HCM Series (BK)

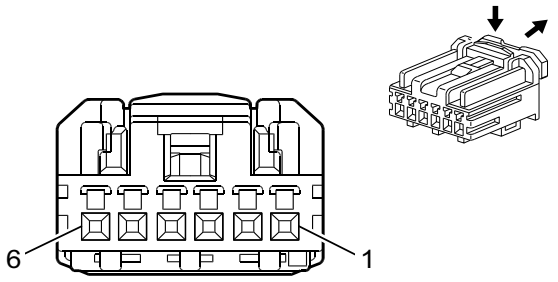
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

S13D Door Lock Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.35	YE	6817	LED Backlight Dimming Control	I	—
3	0.35	BN/WH	781	Driver Door Lock Switch Unlock Signal	I	—
4	0.35	BN/YE	780	Driver Door Lock Switch Lock Signal	I	—
5	0.5	BK	3550	Ground	I	—
6	—	—	—	Not Occupied	—	—

S13P Door Lock Switch - Passenger



4650256

Connector Part Information

Harness Type: Passenger Door
OEM Connector: HCMPB-C06A-K
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 HCM Series (BK)

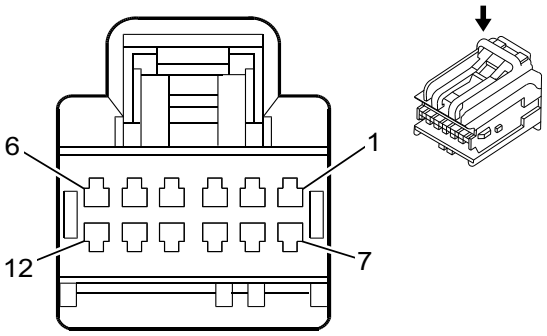
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

S13P Door Lock Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	—	—	Not Occupied	—	—
2	0.35	YE	6817	LED Backlight Dimming Control	I	—
3	0.35	BN/VT	245	Passenger Door Lock Switch Unlock Control	I	—
4	0.35	YE/VT	244	Passenger Door Lock Switch Lock Control	I	—
5	0.35	BK	3650	Ground	I	—
6	—	—	—	Not Occupied	—	—

S30 Headlamp Switch



1664569

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 31410-0120
Service Connector: 19354838
Description: 12-Way F 0.64 Series, Sealed (BK)

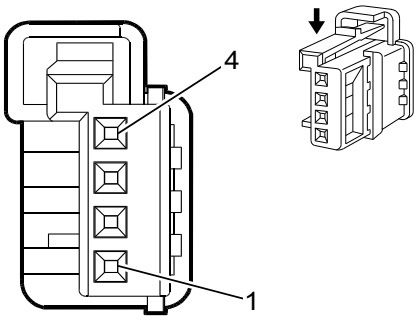
Terminal Part Information

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

S30 Headlamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/VT	103	Headlamp Switch On Signal	I	—
2	0.5	YE	6817	LED Backlight Dimming Control	I	—
3	0.35	GN/BN	306	Headlamp Switch Headlamps Off Signal Control	I	—
4	—	—	—	Not Occupied	—	—
5	0.35	GN/GY	13	Headlamp Switch Park Lamp Signal	I	—
6	—	—	—	Not Occupied	—	—
7	0.35	BK/YE	5005	Instrument Panel Lamp Dimmer Switch Low Reference	I	—
8	0.35	BK/WH	2151	Signal Ground	I	—
9	—	—	—	Not Occupied	—	—
10	0.35	BU/GY	192	Front Fog Lamp Switch Signal	I	—
11	0.35	YE/GY	44	Instrument Panel Lamp Dimmer Switch Signal	I	—
12	0.35	BU/RD	1688	5V Reference	I	—

S32D Seat Heating Switch - Driver



2173576

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1379029-2
Service Connector: 13576536
Description: 4-Way F 0.64 Micro-Quadlock Series (WH)

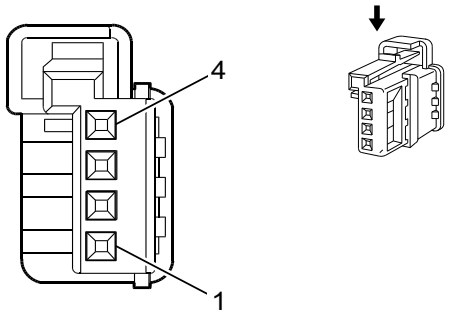
Terminal Part Information

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

S32D Seat Heating Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	2050	Ground	I	—
2	—	—	—	Not Occupied	—	—
3	0.5	GN/WH	7527	Local Interconnect Network Serial Data Bus 5	I	—
4	0.5	RD/GY	2840	Battery Positive Voltage	I	—

S32P Seat Heating Switch - Passenger



2667612

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1379029-6
Service Connector: 13587956
Description: 4-Way F 0.64 Micro-Quadlock 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-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

S32P Seat Heating Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	2050	Ground	I	—
2	—	—	—	Not Occupied	—	—
3	0.5	GN/WH	7527	Local Interconnect Network Serial Data Bus 5	I	—
4	0.5	RD/GY	2840	Battery Positive Voltage	I	—

S33 Horn Switch X1

—

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 2–520272–2
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

S33 Horn Switch X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GN/WH	3287	Horn Switch Signal	I	—

S33 Horn Switch X2

—

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 11-Way

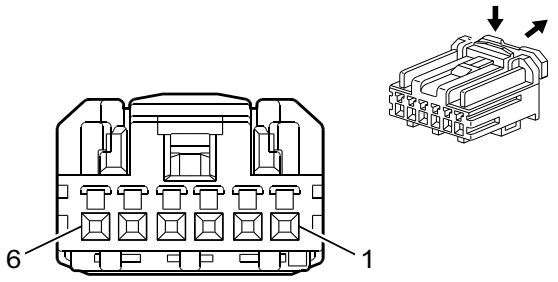
Terminal Part Information

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

S33 Horn Switch X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	2050	Ground	I	—
2	0.35	GN/WH	3287	Horn Switch Signal	I	—

S39 Ignition Switch



4650256

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13597262
Service Connector: 19368127
Description: 6-Way F 0.64 HCM Series (BK)

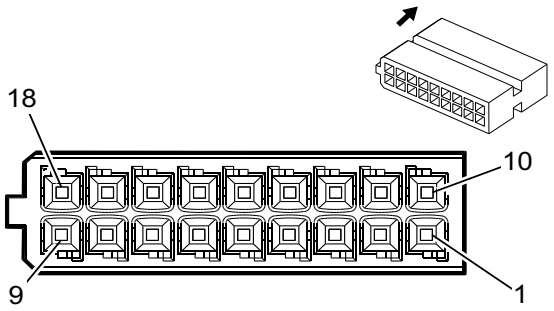
Terminal Part Information

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

S39 Ignition Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/BK	3	Run/Crank Ignition 1 Voltage	I	—
2	0.5	RD/BU	540	Battery Positive Voltage	I	—
3	0.5	VT/YE	4	Accessory Ignition Voltage	I	—
4	0.5	WH/VT	1020	Off/Run/Crank Ignition Voltage	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	WH/BK	1073	Ignition Key Resistor Signal	I	—

S48A Multifunction Switch - Instrument Panel



1457336

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1379102-1
Service Connector: 13504129
Description: 18-Way F 0.64 Micro-Quadlock Series (BK)

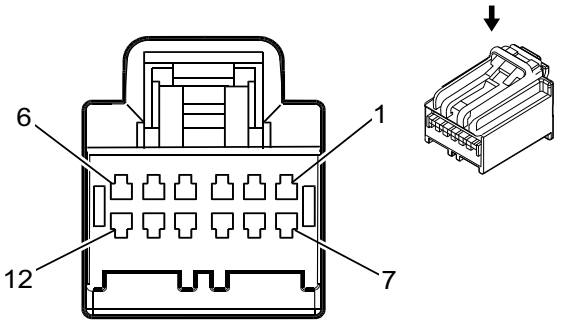
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575859	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
II	19329754	J-35616-64B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

S48A Multifunction Switch - Instrument Panel

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	6817	LED Backlight Dimming Control	II	—
2	0.35	WH	6816	Indicator Dimming Control	II	—
3	0.5	YE/GN	7122	Axle Differential Lock Switch Signal	I	—
4	0.35	BU/YE	6844	ABS/TCS Hill Descent Control Switch Signal	II	—
5	0.35	WH	3152	Lane Departure Warning Indicator Control	II	—
6	0.5	VT/GY	7117	Front Axle Differential Lock Indicator Control	I	—
7	0.5	BN/WH	1429	Standing Lamp Relay Control	II	—
8	0.35	GY/WH	3153	Lane Departure Warning Disable Switch Signal	II	—
9	0.5	BK/YE	7259	Axle Differential Lock Switch Low Reference	II	LGZ
	0.5	BK/YE	7259	Axle Differential Lock Switch Low Reference	I	LWN
10	0.35	GN/WH	111	Hazard Switch Signal	II	—
11	0.35	BU/GY	553	Shift Select Switch Performance Signal	II	—
12	0.5	YE	7115	Rear Axle Differential Lock Indicator Control	I	—
13	—	—	—	Not Occupied	—	—
14	0.35	BK	2050	Ground	II	—
15 - 16	—	—	—	Not Occupied	—	—
17	0.35	BU/VT	1788	Traction Control Switch Signal 1	II	—
18	0.35	GY	158	Cargo Lamp Switch Signal	II	—

S52 Outside Rearview Mirror Switch



3556661

Connector Part Information

Harness Type: Driver Door
OEM Connector: 31410-0121
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F 64 Series, Sealed (GY)

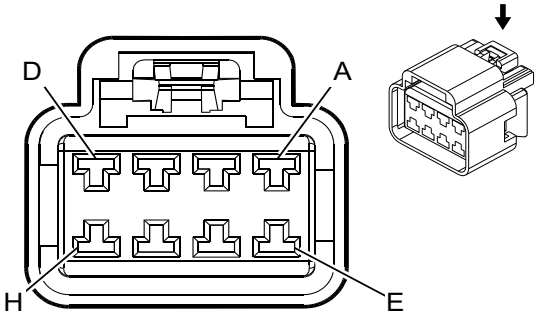
Terminal Part Information

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

S52 Outside Rearview Mirror Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	6817	LED Backlight Dimming Control	I	—
2 - 4	—	—	—	Not Occupied	—	—
5	0.35	WH	3398	Passenger Mirror Motor Common Control	I	—
6	0.35	YE/BN	3391	Driver Mirror Motor Common Control	I	—
7	0.35	YE/VT	3397	Passenger Mirror Motor Up (+) Down (-) Control	I	—
8	0.35	VT/BU	3390	Driver Mirror Motor Up (+) Down (-) Control	I	—
9	0.35	GN/BK	3396	Passenger Mirror Motor Right (+) Left (-) Control	I	—
10	0.35	BN/BK	3389	Driver Mirror Motor Right (+) Left (-) Control	I	—
11	0.5	BK	3550	Ground	I	—
12	0.35	RD/VT	1940	Battery Positive Voltage	I	—

S64D Seat Adjuster Switch - Driver



556473

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: 15326924
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 GT Series (BK)

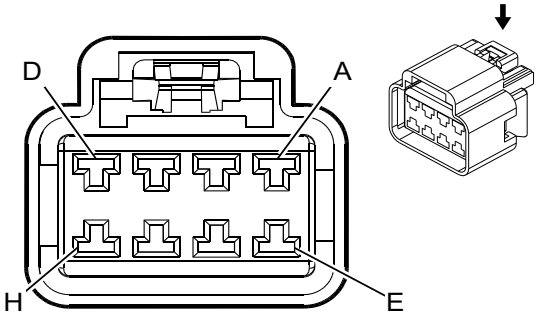
Terminal Part Information

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

S64D Seat Adjuster Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	YE	282	Driver Power Seat Rear Vertical Motor Up Control	I	—
B	—	BK	3750	Ground	I	—
C	—	YE/BU	285	Driver Power Seat Horizontal Motor Forward Control	I	—
D	—	RD/YE	5040	Battery Positive Voltage	I	—
E	—	—	—	Not Occupied	—	—
F	—	GY/GN	284	Driver Power Seat Horizontal Motor Rearward Control	I	—
G	—	—	—	Not Occupied	—	—
H	—	GY/BU	283	Driver Power Seat Rear Vertical Motor Down Control	I	—

S64P Seat Adjuster Switch - Passenger (AAQ)



556473

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 15326924
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 GT Series (BK)

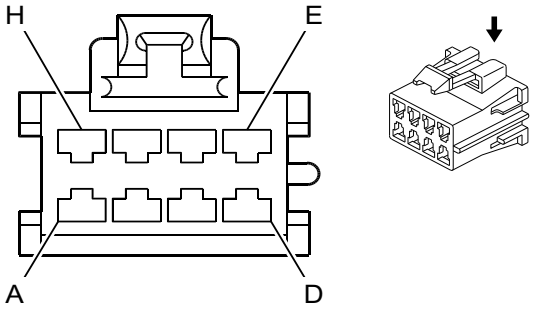
Terminal Part Information

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

S64P Seat Adjuster Switch - Passenger (AAQ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	GN/WH	288	Passenger Power Seat Rear Vertical Motor Up Control	I	—
B	2.5	BK	3850	Ground	I	—
C	1.5	YE/BU	290	Passenger Power Seat Horizontal Motor Rearward Control	I	—
D	2.5	RD/BN	1440	Battery Positive Voltage	I	—
E	—	—	—	Not Occupied	—	—
F	1.5	YE/WH	296	Passenger Power Seat Horizontal Motor Forward Control	I	—
G	—	—	—	Not Occupied	—	—
H	1.5	BU/WH	289	Passenger Power Seat Rear Vertical Motor Down Control	I	—

S65D Seat Lumbar Support Switch - Driver



73155

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: 12089287
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 Metri-Pack Series (NA)

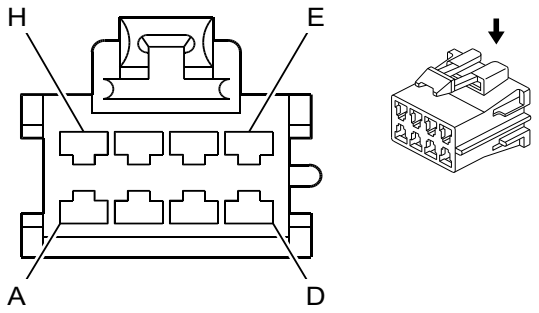
Terminal Part Information

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

S65D Seat Lumbar Support Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	—	VT	610	Driver Power Seat Lumbar Motor Rearward Control	I	—
B - C	—	—	—	Not Occupied	—	—
D	—	L-BU	611	Driver Power Seat Lumbar Motor Forward Control	I	—
E	—	RD/YE	5040	Battery Positive Voltage	I	—
F - G	—	—	—	Not Occupied	—	—
H	—	BK	3750	Ground	I	—

S65P Seat Lumbar Support Switch - Passenger (AT9)



73155

Connector Part Information

Harness Type: Passenger Seat Cushion
OEM Connector: 12089287
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 280 Metri-Pack Series (NA)

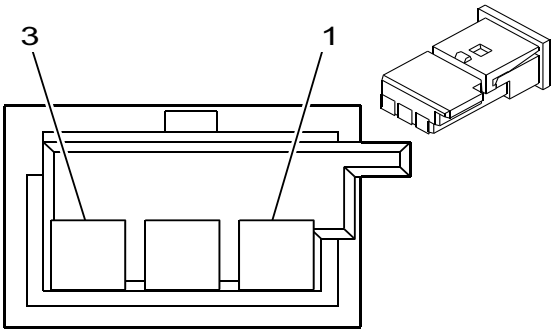
Terminal Part Information

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

S65P Seat Lumbar Support Switch - Passenger (AT9)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT	210	Passenger Power Seat Lumbar Motor Rearward Control	I	—
B - C	—	—	—	Not Occupied	—	—
D	1.5	BU	211	Passenger Power Seat Lumbar Motor Forward Control	I	—
E	2.5	RD/BN	1440	Battery Positive Voltage	I	—
F - G	—	—	—	Not Occupied	—	—
H	2.5	BK	3850	Ground	I	—

S70E Steering Wheel Controls Switch - Radio Presets



647970

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 13153088
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 0.64 Micro-Quadlock Series (BK)

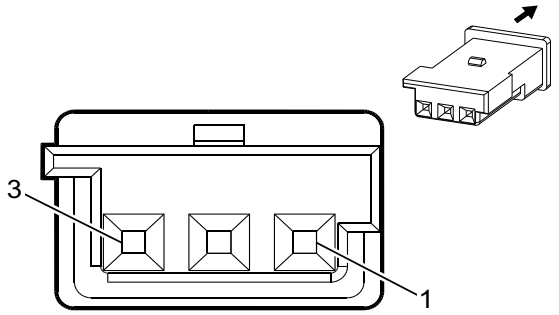
Terminal Part Information

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

S70E Steering Wheel Controls Switch - Radio Presets

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	WH/YE	4313	Radio Favorite Forward Signal	I	—
2	—	YE/RD	4312	Radio Favorite Back Signal	I	—
3	—	BK	2050	Ground	I	—

S70F Steering Wheel Controls Switch - Radio Volume (W1Y)



2179789

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 19153569
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F Micro-Quadlock Series (PU)

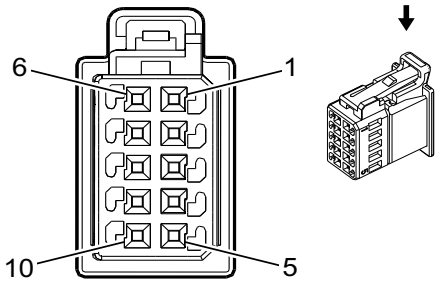
Terminal Part Information

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

S70F Steering Wheel Controls Switch - Radio Volume (W1Y)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	—	RD	4315	Radio Volume Up Signal	I	—
2	—	GY/BN	4314	Radio Volume Down Signal	I	—
3	—	BK	2050	Ground	I	—

S70L Steering Wheel Controls Switch - Left



2830955

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 13582766
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 0.64 Micro-Quadlock Series (BK)

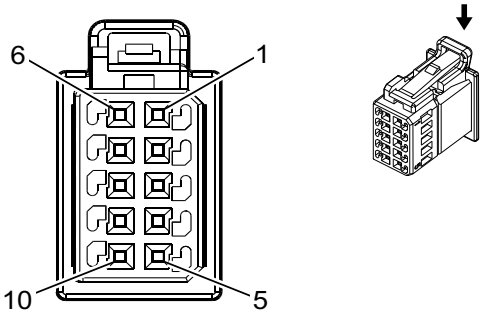
Terminal Part Information

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

S70L Steering Wheel Controls Switch - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	2050	Ground	II	—
2	0.5	BK	2050	Ground	I	—
3	0.35	GY/OG	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	II	—
4	0.35	BN/YE	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	II	—
5	0.35	YE/GY	5883	Heated Steering Wheel Switch Signal	II	—
6	0.35	BN	6817	LED Backlight Dimming Control	II	W1Y
	0.35	BN	6136	Control	II	-W1Y
7	0.35	WH	6816	Indicator Dimming Control	II	—
8	0.35	GN	5884	Heated Steering Wheel Switch LED Control	II	—
9	0.35	WH	1444	12V Reference	II	—
10	0.35	RD/YE	3040	Battery Positive Voltage	II	—

S70R Steering Wheel Controls Switch - Right



3824564

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 13582767
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 0.64 Micro-Quadlock Series (BK)

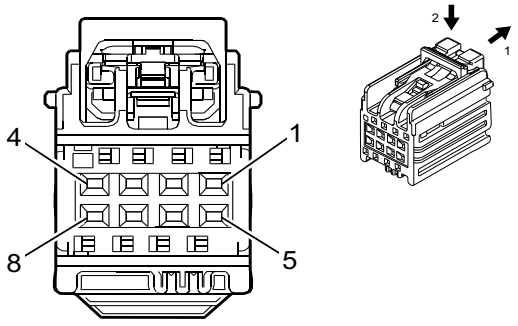
Terminal Part Information

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

S70R Steering Wheel Controls Switch - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.35	BN BN	6817 6136	LED Backlight Dimming Control Control	I I	W1Y -W1Y
2	0.35	WH/RD	1444	12V Reference	I	—
3	0.5	GN/BK	3894	Local Interconnect Network Serial Data Bus 12	I	—
4	0.35	GN	6818	Steering Wheel Resistor Ladder Signal 1	I	—
5	0.35	RD/YE	3040	Battery Positive Voltage	I	—
6	0.35	BK	2050	Ground	I	—
7	0.35	RD	4315	Radio Volume Up Signal	I	—
8	0.35	GY/BN	4314	Radio Volume Down Signal	I	—
9	0.35	WH/YE	4313	Radio Favorite Forward Signal	I	—
10	0.35	YE/RD	4312	Radio Favorite Back Signal	I	—

S76 Trailer Brake Control Switch (JL1)



4808677

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 7289-2894-30
Service Connector: 19368548
Description: 8-Way F 0.64 YESC Series (BK)

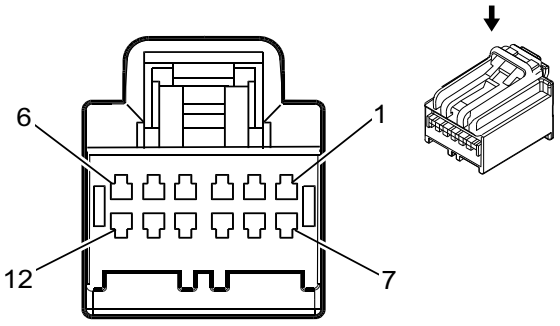
Terminal Part Information

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

S76 Trailer Brake Control Switch (JL1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	BU/RD	7632	Integrated Trailer Brake Controller Switch 5V Reference	I	—
4	0.5	YE	7635	Integrated Trailer Brake Controller Manual Apply Signal	I	—
5	0.5	BN	7634	Integrated Trailer Brake Controller Redundant Manual Apply Signal	I	—
6	0.5	GN/BK	7633	Integrated Trailer Brake Controller User Gain Signal	I	—
7	0.35	YE	6817	LED Backlight Dimming Control	I	—
8	0.5	BK/BN	7631	Integrated Trailer Brake Controller Switch Low Reference	I	—

S77 Transfer Case Shift Control Switch



3556661

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 31410-0121
Service Connector: 13593929
Description: 12-Way F 64 Series, Sealed (GY)

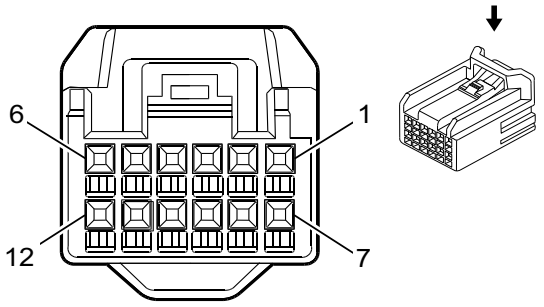
Terminal Part Information

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

S77 Transfer Case Shift Control Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	5054	Sport Mode Switch Signal	I	—
2	0.5	VT/BN	300	Run Ignition 3 Voltage	I	—
3	0.35	BN	1560	Neutral Indicator Control	I	—
4	0.35	WH	6816	Indicator Dimming Control	I	—
5	0.35	YE	6817	LED Backlight Dimming Control	I	—
6	0.5	BK	2050	Ground	I	—
7	0.35	GY/GN	1561	AWD Indicator Control	I	—
8	0.35	GN/BK	1563	2 HI Indicator Control	I	—
9	0.35	BN/BK	1566	4 HI Indicator Control	I	—
10	0.35	VT/WH	1565	4 LO Indicator Control	I	—
11	0.35	GY/RD	6029	Four Wheel Drive Mode Switch 5V Reference	I	—
12	0.35	BU/YE	1693	Four Wheel Drive Switch Signal	I	—

S78 Turn Signal/Multifunction Switch



2180217

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: SHC2PB-12-2AK
Service Connector: 13576635
Description: 12-Way F 0.64 Series (BK)

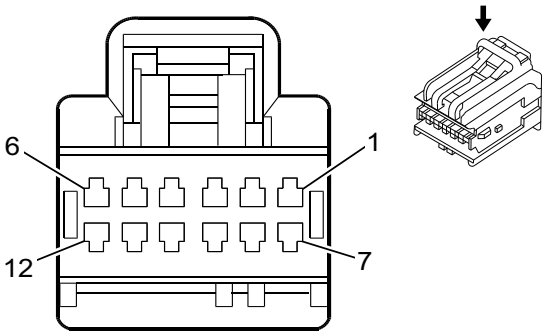
Terminal Part Information

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

S78 Turn Signal/Multifunction Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/GN	663	Hazard Switch Left Turn Signal	I	—
2	0.35	WH	524	Headlamp Dimmer Switch High Beam Signal	I	—
3	0.35	BK/WH	2151	Signal Ground	I	—
4	0.35	YE/BN	307	Headlamp Switch Flash To Pass Signal	I	—
5	0.35	GY/BU	893	Driver Information Center Select Menu Switch Signal	I	—
6	0.35	BK/BN	897	Driver Information Center Switch Low Reference	I	—
7	0.35	VT/BU	664	Hazard Switch Right Turn Signal	I	—
8 - 11	—	—	—	Not Occupied	—	—
12	0.35	GN/WH	1358	Driver Information Center Switch Signal	I	—

S79D Window Switch - Driver



1664569

Connector Part Information

Harness Type: Driver Door
OEM Connector: 31410-0120
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F 0.64 Series, Sealed (BK)

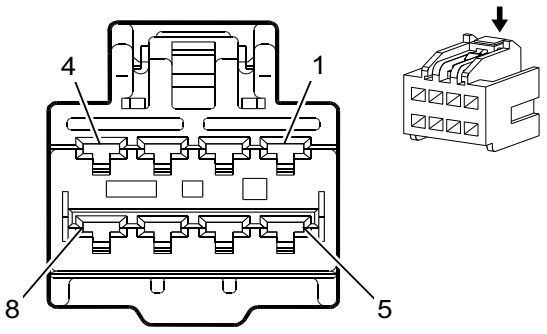
Terminal Part Information

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

S79D Window Switch - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BK	3550	Ground	I	—
2	0.35	GN/VT	7628	Power Window Motor Left Front Express Control	I	—
3	0.35	GY	1136	Power Window Master Switch Left Front Down Signal	I	—
4	0.5	RD/VT	1940	Battery Positive Voltage	I	—
5	0.5	GN/YE	6134	Local Interconnect Network Serial Data Bus 3	I	—
6	0.35	GN/WH	1300	Power Window Master Switch Left Front Up Signal	I	—
7	0.35	WH/VT	3270	Driver Door Lock Motor Status Signal	I	—
8	0.35	BU/VT	1124	Door Lock Key Switch Unlock Signal	I	—
9	—	—	—	Not Occupied	—	—
10	0.35	YE/BN	3265	Child Security Lock Switch Signal	I	—
11	0.35	WH	6816	Indicator Dimming Control	I	—
12	0.35	GY	5697	Child Lockout Indicator Control	I	—

S79LR Window Switch - Left Rear (Crew Cab)



1653389

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 6098-4713
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 2.8 Series (BK)

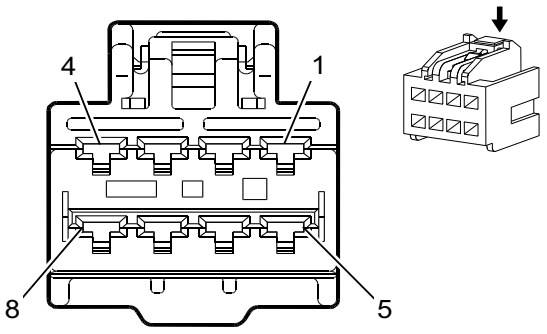
Terminal Part Information

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

S79LR Window Switch - Left Rear (Crew Cab)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/GY	6135	Local Interconnect Network Serial Data Bus 4	I	—
2	0.35	GY	747	Left Rear Door Ajar Switch Signal	I	—
3	0.35	BK	3350	Ground	I	—
4	—	—	—	Not Occupied	—	—
5	2.5	BK	3350	Ground	I	—
6	2.5	BU/VT	668	Power Window Motor Left Rear Up Control	I	—
7	2.5	YE/BU	669	Power Window Motor Left Rear Down Control	I	—
8	2.5	RD/BU	1240	Battery Positive Voltage	I	—

S79P Window Switch - Passenger



1653389

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 6098-4713
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 2.8 Series (BK)

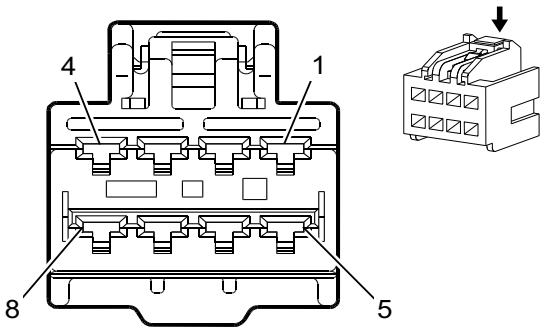
Terminal Part Information

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

S79P Window Switch - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2.5	BK	3650	Ground	I	—
2	2.5	GN/GY	3387	Power Window Motor Passenger Up Control	I	—
3	2.5	YE/BU	3388	Power Window Motor Passenger Down Control	I	—
4	2.5	RD/WH	1340	Battery Positive Voltage	I	—
5	0.5	GN/YE	6134	Local Interconnect Network Serial Data Bus 3	I	—
6 - 7	—	—	—	Not Occupied	—	—
8	0.35	GY	746	Right Front Door Ajar Switch Signal	I	—

S79RR Window Switch - Right Rear



1653389

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 6098-4713
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 2.8 Series (BK)

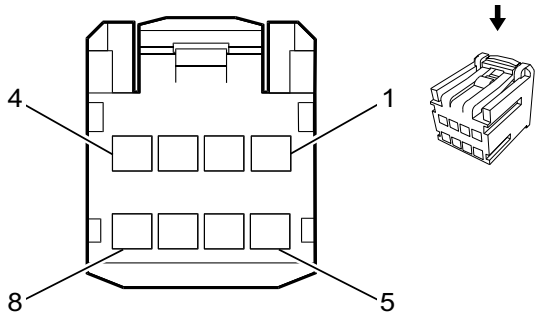
Terminal Part Information

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

S79RR Window Switch - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GN/GY	6135	Local Interconnect Network Serial Data Bus 4	I	—
2	0.35	GY	748	Right Rear Door Ajar Switch Signal	I	—
3 - 4	—	—	—	Not Occupied	—	—
5	2.5	BK	3450	Ground	I	—
6	2.5	BU/GY	670	Power Window Motor Right Rear Up Control	I	—
7	2.5	GN/BK	671	Power Window Motor Right Rear Down Control	I	—
8	2.5	RD/WH	1340	Battery Positive Voltage	I	—

S82 Windshield Wiper/Washer Switch



2180203

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: HCMDPB-08-K
Service Connector: 13576541
Description: 8-Way F 1.2 HCM Series (BK)

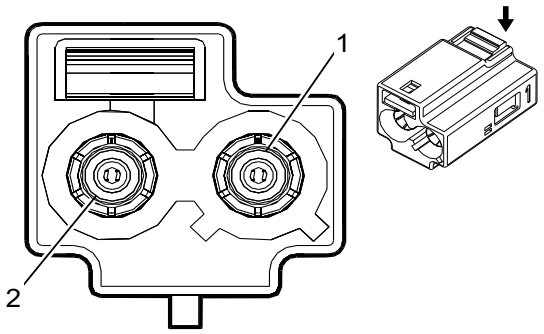
Terminal Part Information

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

S82 Windshield Wiper/Washer Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	1715	Windshield Wiper Switch High Signal	I	—
2	0.35	BK/GY	6009	Windshield Wiper Switch Low Reference	I	—
3	0.35	YE/BU	1714	Windshield Wiper Switch Low Signal	I	—
4	—	—	—	Not Occupied	—	—
5	0.35	WH/BK	94	Windshield Washer Switch Signal	I	—
6 - 8	—	—	—	Not Occupied	—	—

T2RR Antenna - Roof Rear (U2K)



3969442

Connector Part Information

Harness Type: Body COAX
OEM Connector: 13581975
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 2-Way F Coax Type (CU)

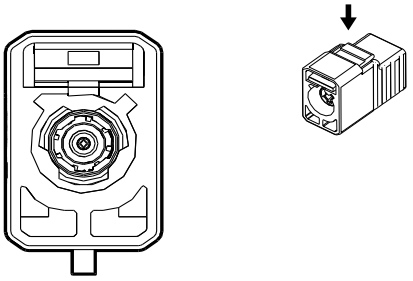
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

T2RR Antenna - Roof Rear (U2K)

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

T2RR Antenna - Roof Rear (-U2K)



2893647

Connector Part Information

Harness Type: Body COAX
OEM Connector: 13581687
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way F Coax Type (BK)

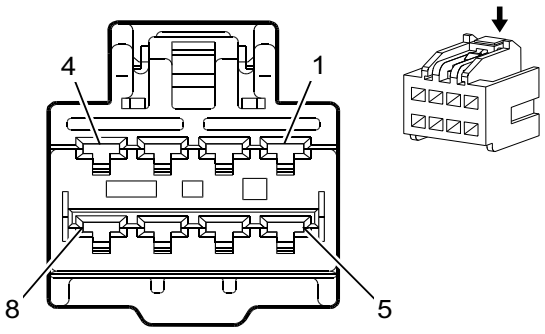
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

T2RR Antenna - Roof Rear (-U2K)

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

T3 Audio Amplifier X1



1653389

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 6098-4713
Service Connector: 13580111
Description: 8-Way F 2.8 Series (BK)

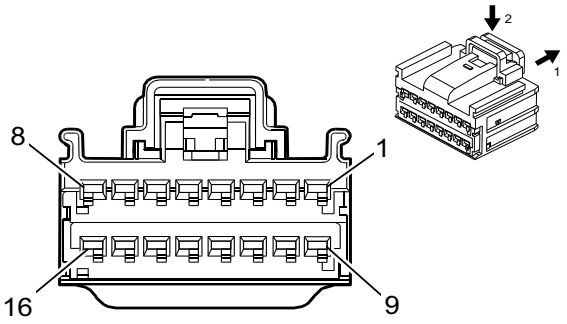
Terminal Part Information

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

T3 Audio Amplifier X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	YE	200	Right Front Speaker Control (+) 1	I	—
2	—	—	—	Not Occupied	—	—
3	1	BU	201	Left Front Speaker Control (+) 1	I	—
4	2.5	RD/YE	3740	Battery Positive Voltage	I	—
5	1	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
6	—	—	—	Not Occupied	—	—
7	1	BN/BU	118	Left Front Speaker Signal (-) 1	I	—
8	2.5	BK/WH	2251	Signal Ground	I	—

T3 Audio Amplifier X2



4332214

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15512506
Service Connector: 13591061
Description: 16-Way F 1.5 OCS Series (BK)

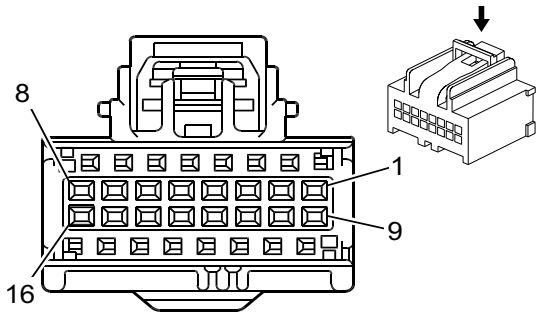
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575708	J-35616-2A (GY)	J-38125-11A	Not Available	Not Available	Not Available	Not Available

T3 Audio Amplifier X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.75	YE/WH	1860	Front Center Speaker Control (+)	I	—
4	0.75	YE	200	Right Front Speaker Control (+) 1	I	—
5	0.75	BU	201	Left Front Speaker Control (+) 1	I	—
6	1	WH	46	Right Rear Speaker Control (+)	I	—
7	1	GN	199	Left Rear Speaker Control (+)	I	—
8 - 10	—	—	—	Not Occupied	—	—
11	0.75	BU/YE	1960	Front Center Speaker (-) Low Reference	I	—
12	0.75	YE/BK	117	Right Front Speaker Signal (-) 1	I	—
13	0.75	BN/BU	118	Left Front Speaker Signal (-) 1	I	—
14	1	BU/BK	115	Right Rear Speaker Signal (-)	I	—
15	1	GN/BK	116	Left Rear Speaker Signal (-)	I	—
16	—	—	—	Not Occupied	—	—

T3 Audio Amplifier X3



1653409

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15136073
Service Connector: 15136073
Description: 16-Way F 0.64 Kaizen Series (BK)

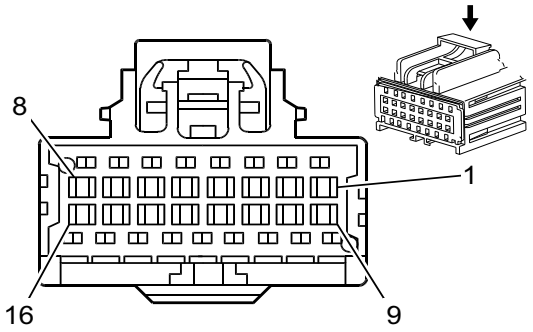
Terminal Part Information

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

T3 Audio Amplifier X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	GY/GN	1102	Low Speed GMLAN Serial Data #2	I	—
2 - 16	—	—	—	Not Occupied	—	—

T3 Audio Amplifier X4



1664488

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 7283-9078-80
Service Connector: 15136074
Description: 16-Way F 0.64 Kaizen Series (BN)

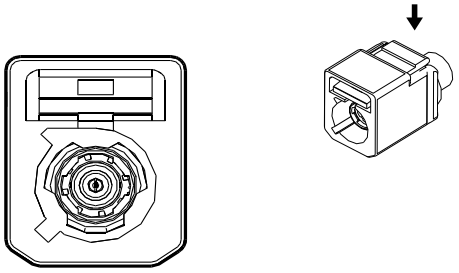
Terminal Part Information

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

T3 Audio Amplifier X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 2	—	—	—	Not Occupied	—	—
3	0.5	WH/GN	3997	MOST Serial Data (-)	I	—
4	0.5	GY/VT	3998	MOST Serial Data (+)	I	—
5	0.5	WH/GN	3997	MOST Serial Data (-)	I	—
6	0.5	GY/VT	3998	MOST Serial Data (+)	I	—
7 - 13	—	—	—	Not Occupied	—	—
14	0.35	WH/VT	3999	MOST Control	I	—
15 - 16	—	—	—	Not Occupied	—	—

T4G Cellular Phone, Navigation, and Digital Radio Antenna (Crew Cab)



4002773

Connector Part Information

Harness Type: Body COAX
OEM Connector: 13581969
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 1-Way F Coax Type (BN)

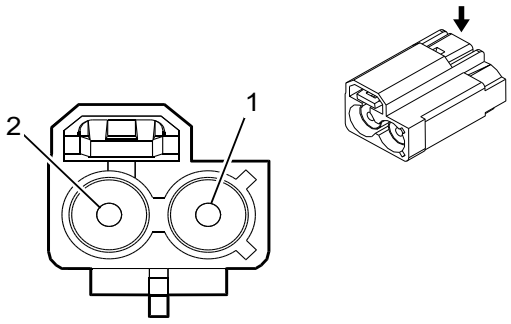
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

T4G Cellular Phone, Navigation, and Digital Radio Antenna (Crew Cab)

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

T4G Cellular Phone, Navigation, and Digital Radio Antenna (Extended Cab)



4283324

Connector Part Information

Harness Type: Body COAX
OEM Connector: 13589366
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 2-Way F Coax Type (PU)

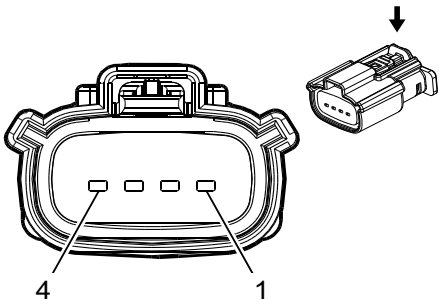
Terminal Part Information

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

T4G Cellular Phone, Navigation, and Digital Radio Antenna (Extended Cab)

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

T8A Ignition Coil 1 (LCV)



2717131

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0461
Service Connector: 19367730
Description: 4-Way F 1.5 Series, Sealed (BK)

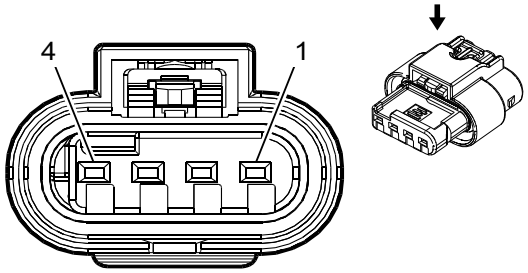
Terminal Part Information

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

T8A Ignition Coil 1 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	BU/VT	2121	Ignition Control 1	I	—
4	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8A Ignition Coil 1 (LGZ+ZR2)



2596543

Connector Part Information

Harness Type: Engine
OEM Connector: 1-1456426-5
Service Connector: 19300397
Description: 4-Way F 1.2 MCP Series, Sealed (BK)

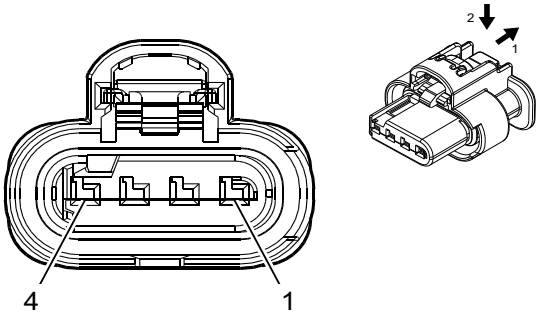
Terminal Part Information

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

T8A Ignition Coil 1 (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	BU/VT	2121	Ignition Control 1	I	—
4	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8A Ignition Coil 1 (LGZ-ZR2)



4210809

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296696-1
Service Connector: 19367009
Description: 4-Way F 1.2 MCON-CB Series, Sealed (BK)

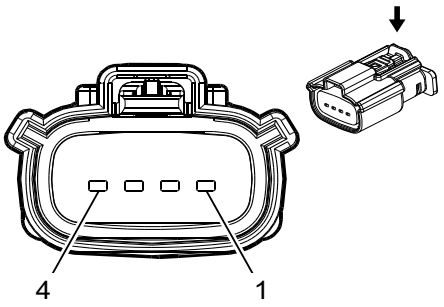
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

T8A Ignition Coil 1 (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	BU/VT	2121	Ignition Control 1	I	—
4	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8B Ignition Coil 2 (LCV)



2717131

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0461
Service Connector: 19367730
Description: 4-Way F 1.5 Series, Sealed (BK)

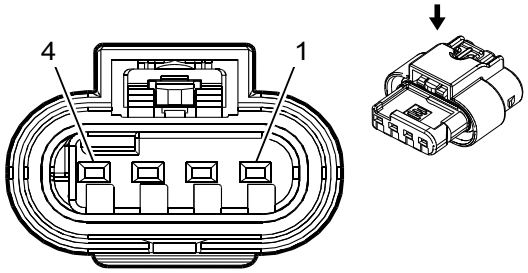
Terminal Part Information

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

T8B Ignition Coil 2 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	BU/WH	2122	Ignition Control 2	I	—
4	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8B Ignition Coil 2 (LGZ+ZR2)



2596543

Connector Part Information

Harness Type: Engine
OEM Connector: 1-1456426-5
Service Connector: 19300397
Description: 4-Way F 1.2 MCP Series, Sealed (BK)

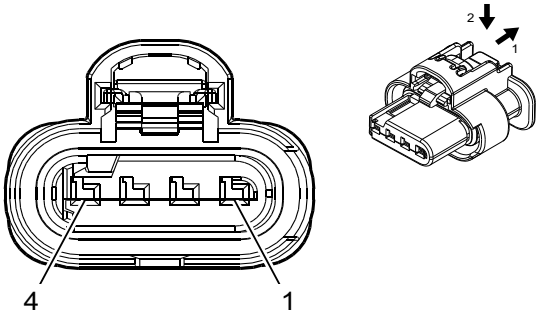
Terminal Part Information

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

T8B Ignition Coil 2 (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1550	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	1	VT/BU	5292	Powertrain Main Relay Fused Supply 3	I	—

T8B Ignition Coil 2 (LGZ-ZR2)



4210809

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296696-1
Service Connector: 19367009
Description: 4-Way F 1.2 MCON-CB Series, Sealed (BK)

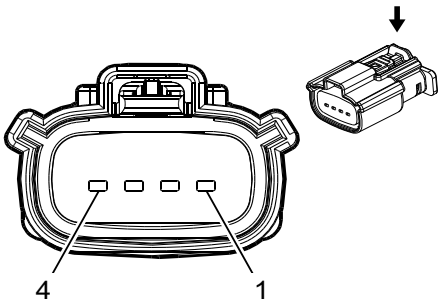
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

T8B Ignition Coil 2 (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1550	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	1	VT/BU	5292	Powertrain Main Relay Fused Supply 3	I	—

T8C Ignition Coil 3 (LCV)



2717131

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0461
Service Connector: 19367730
Description: 4-Way F 1.5 Series, Sealed (BK)

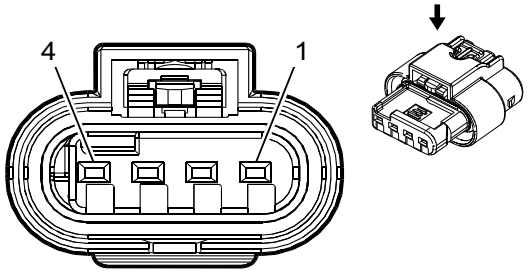
Terminal Part Information

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

T8C Ignition Coil 3 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	GN/BU	2123	Ignition Control 3	I	—
4	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8C Ignition Coil 3 (LGZ+ZR2)



2596543

Connector Part Information

Harness Type: Engine
OEM Connector: 1-1456426-5
Service Connector: 19300397
Description: 4-Way F 1.2 MCP Series, Sealed (BK)

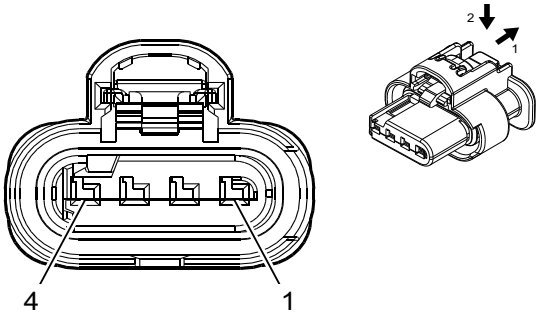
Terminal Part Information

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

T8C Ignition Coil 3 (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	GN/BU	2123	Ignition Control 3	I	—
4	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8C Ignition Coil 3 (LGZ-ZR2)



4210809

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296696-1
Service Connector: 19367009
Description: 4-Way F 1.2 MCON-CB Series, Sealed (BK)

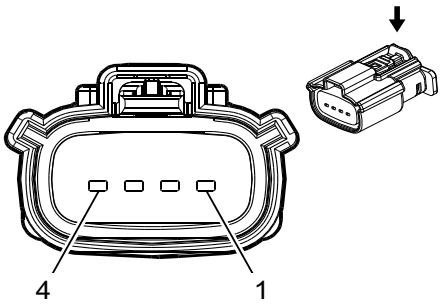
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

T8C Ignition Coil 3 (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	GN/BU	2123	Ignition Control 3	I	—
4	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8D Ignition Coil 4 (LCV)



2717131

Connector Part Information

Harness Type: Engine
OEM Connector: 33471-0461
Service Connector: 19367730
Description: 4-Way F 1.5 Series, Sealed (BK)

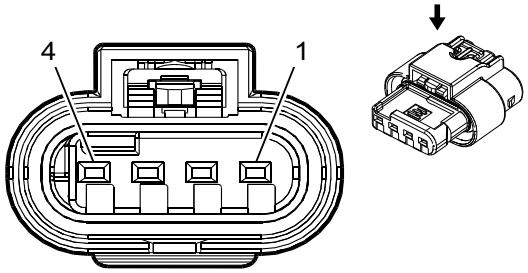
Terminal Part Information

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

T8D Ignition Coil 4 (LCV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	YE/BU	2124	Ignition Control 4	I	—
4	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8D Ignition Coil 4 (LGZ+ZR2)



2596543

Connector Part Information

Harness Type: Engine
OEM Connector: 1-1456426-5
Service Connector: 19300397
Description: 4-Way F 1.2 MCP Series, Sealed (BK)

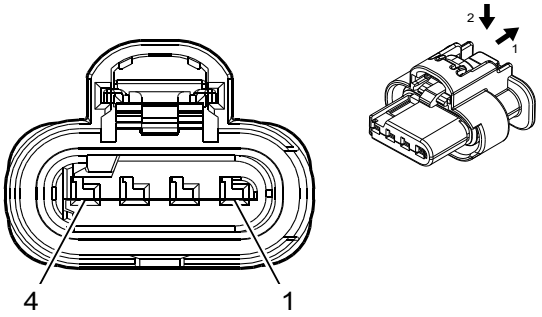
Terminal Part Information

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

T8D Ignition Coil 4 (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1550	Ground	I	—
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	—
3	0.5	YE/BU	2124	Ignition Control 4	I	—
4	1	VT/BU	5292	Powertrain Main Relay Fused Supply 3	I	—

T8D Ignition Coil 4 (LGZ-ZR2)



4210809

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296696-1
Service Connector: 19367009
Description: 4-Way F 1.2 MCON-CB Series, Sealed (BK)

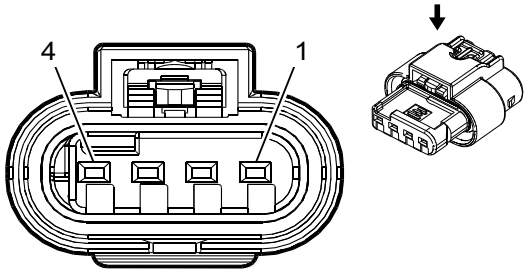
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

T8D Ignition Coil 4 (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1550	Ground	I	—
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	—
3	0.5	YE/BU	2124	Ignition Control 4	I	—
4	1	VT/BU	5292	Powertrain Main Relay Fused Supply 3	I	—

T8E Ignition Coil 5 (LGZ+ZR2)



2596543

Connector Part Information

Harness Type: Engine
OEM Connector: 1-1456426-5
Service Connector: 19300397
Description: 4-Way F 1.2 MCP Series, Sealed (BK)

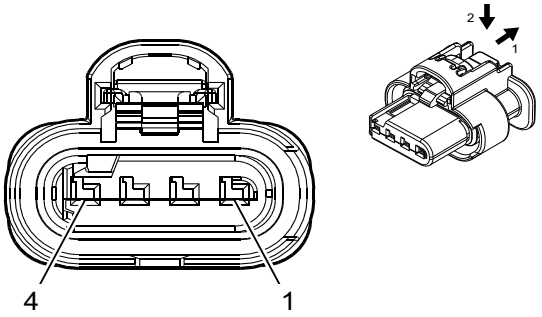
Terminal Part Information

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

T8E Ignition Coil 5 (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	BU/GY	2125	Ignition Control 5	I	—
4	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8E Ignition Coil 5 (LGZ-ZR2)



4210809

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296696-1
Service Connector: 19367009
Description: 4-Way F 1.2 MCON-CB Series, Sealed (BK)

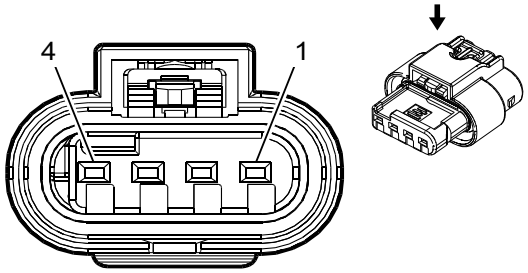
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

T8E Ignition Coil 5 (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1450	Ground	I	—
2	0.5	BK/BU	2129	Ignition Control Low Reference Bank 1	I	—
3	0.5	BU/GY	2125	Ignition Control 5	I	—
4	1	VT/BU	5291	Powertrain Main Relay Fused Supply 2	I	—

T8F Ignition Coil 6 (LGZ+ZR2)



2596543

Connector Part Information

Harness Type: Engine
OEM Connector: 1-1456426-5
Service Connector: 19300397
Description: 4-Way F 1.2 MCP Series, Sealed (BK)

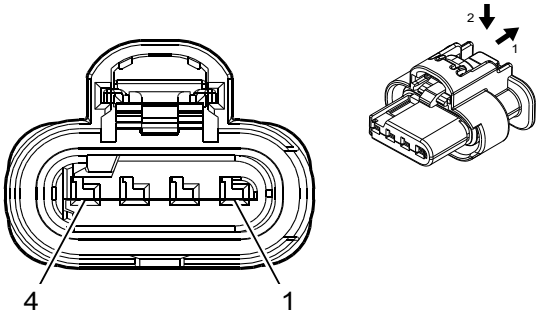
Terminal Part Information

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

T8F Ignition Coil 6 (LGZ+ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1550	Ground	I	—
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	—
3	0.5	BN/BU	2126	Ignition Control 6	I	—
4	1	VT/BU	5292	Powertrain Main Relay Fused Supply 3	I	—

T8F Ignition Coil 6 (LGZ-ZR2)



4210809

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2296696-1
Service Connector: 19367009
Description: 4-Way F 1.2 MCON-CB Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

T8F Ignition Coil 6 (LGZ-ZR2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	1550	Ground	I	—
2	0.5	BK/GY	2130	Ignition Control Low Reference Bank 2	I	—
3	0.5	BN/BU	2126	Ignition Control 6	I	—
4	1	VT/BU	5292	Powertrain Main Relay Fused Supply 3	I	—

T15 Navigation Antenna Signal Splitter X1 (IO6)

—

Connector Part Information

Harness Type: COAX
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

T15 Navigation Antenna Signal Splitter X1 (IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
GY	—	—	COAX	Coax Cable	I	—

T15 Navigation Antenna Signal Splitter X2 (IO6)

—

Connector Part Information

Harness Type: COAX
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

T15 Navigation Antenna Signal Splitter X2 (IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
VT	—	—	COAX	Coax Cable	I	—

T15 Navigation Antenna Signal Splitter X3 (IO6)

—

Connector Part Information

Harness Type: Body COAX
OEM Connector: Not Available
Service Connector: Not Available
Description: 1-Way

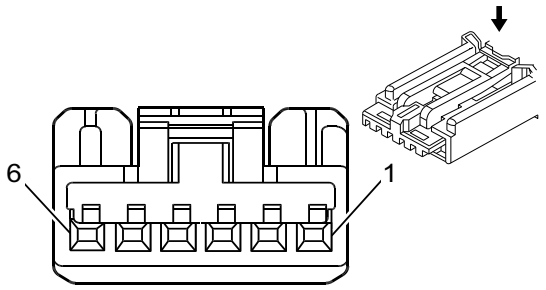
Terminal Part Information

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

T15 Navigation Antenna Signal Splitter X3 (IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
BU	—	—	COAX	Coax Cable	I	—

T22 Mobile Device Wireless Charger Module



1974968

Connector Part Information

Harness Type: Floor Console
OEM Connector: AIT2PB-06-1FS
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Series (NA)

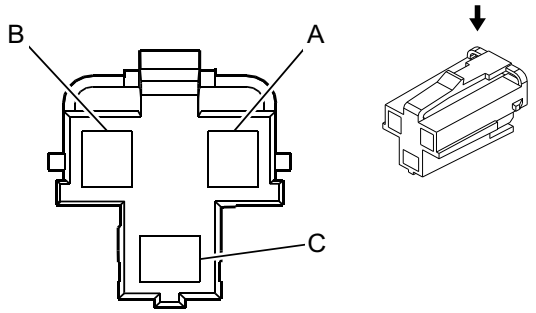
Terminal Part Information

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

T22 Mobile Device Wireless Charger Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT	4601	Retained Accessory Power Fused Control	I	—
2	0.5	BK	2050	Ground	I	—
3	0.35	GN	4512	Wireless Charging System Charge Indicator Control	I	—
4	0.35	BN	4511	Wireless Charging System Fault Indicator Control	I	—
5 - 6	—	—	—	Not Occupied	—	—

X80A Accessory Power Receptacle - Center Console 1 (M5T/MYB)



362748

Connector Part Information

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

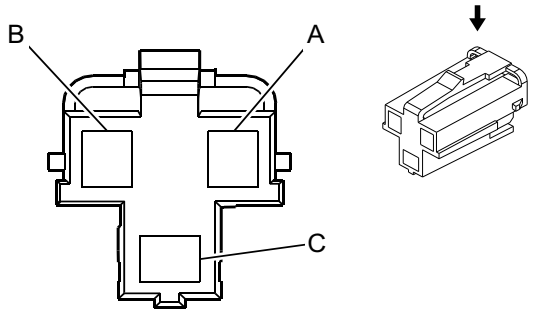
Terminal Part Information

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 (M5T/MYB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT	1701	Retained Accessory Power Ignition	I	—
B	—	—	—	Not Occupied	—	—
C	1.5	BK	2050	Ground	I	—

X80A Accessory Power Receptacle - Center Console 1 (N8D)



362748

Connector Part Information

Harness Type: Floor Console
OEM Connector: 12176836
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 280 Metri-Pack Series (GY)

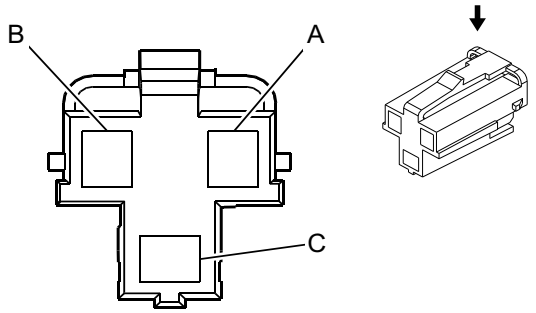
Terminal Part Information

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 (N8D)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1.5	VT	1701	Retained Accessory Power Ignition	I	—
B	—	—	—	Not Occupied	—	—
C	1.5	BK	2050	Ground	I	—

X80B Accessory Power Receptacle - Center Console 2



362748

Connector Part Information

Harness Type: Floor Console
OEM Connector: 12176836
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way F 280 Metri-Pack Series (GY)

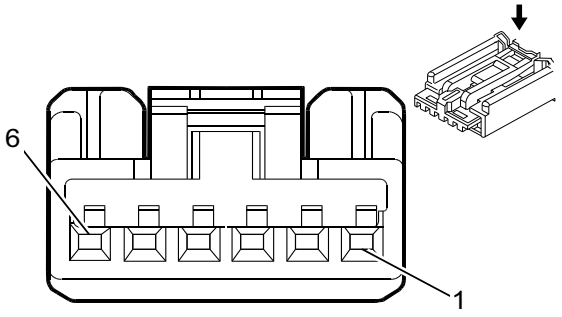
Terminal Part Information

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	1.5	VT	2101	Retained Accessory Power Fuse Ignition	I	—
B	—	—	—	Not Occupied	—	—
C	1.5	BK	2050	Ground	I	—

X83 Auxiliary Audio Input X1 ((IO5/IO6)+MYB)



1862240

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: AIT2PB-06-1AK
Service Connector: 19367517
Description: 6-Way F 0.64 Kaizen Series (BK)

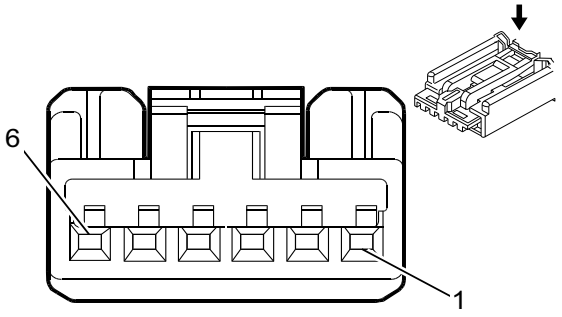
Terminal Part Information

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

X83 Auxiliary Audio Input X1 ((IO5/IO6)+MYB)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	5839	Left Auxiliary Audio Signal 2	I	—
2	0.35	GN	5841	Right Auxiliary Audio Signal 2	I	—
3	0.35	VT	5843	Auxiliary Audio Common Signal	I	—
4	0.35	BK/WH	2051	Signal Ground	I	—
5	0.35	BU	2060	Auxiliary Detection Signal	I	—
6	0.5	RD/VT	340	Battery Positive Voltage	I	—

X83 Auxiliary Audio Input X1 (IOB+N8D)



1862240

Connector Part Information

Harness Type: Floor Console
OEM Connector: AIT2PB-06-1AK
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Kaizen Series (BK)

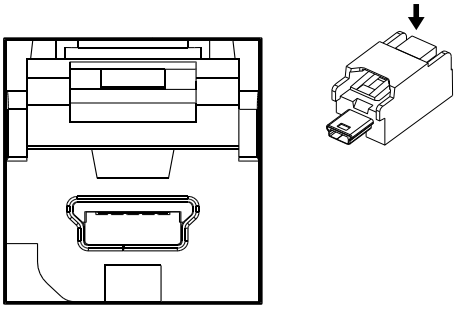
Terminal Part Information

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

X83 Auxiliary Audio Input X1 (IOB+N8D)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	5839	Left Auxiliary Audio Signal 2	I	—
2	0.35	GN	5841	Right Auxiliary Audio Signal 2	I	—
3	0.35	VT	5843	Auxiliary Audio Common Signal	I	—
4	0.35	BK/WH	2051	Signal Ground	I	—
5	0.35	BU	2060	Auxiliary Detection Signal	I	—
6	0.5	RD/VT	340	Battery Positive Voltage	I	—

X83 Auxiliary Audio Input X2 (IOB+N8D)



3214018

Connector Part Information

Harness Type: Floor Console USB
OEM Connector: 13584747
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (GY)

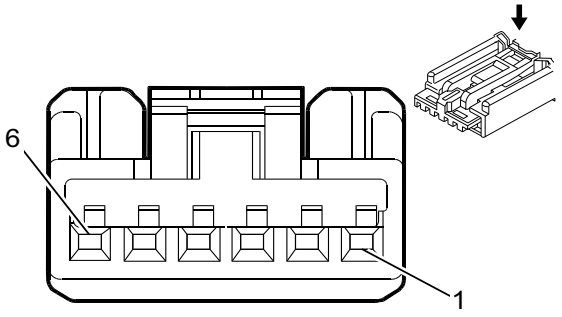
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

X83 Auxiliary Audio Input X2 (IOB+N8D)

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

X83R Auxiliary Audio Input - Rear X1 (IO5/IO6)



1862240

Connector Part Information

Harness Type: Floor Console
OEM Connector: AIT2PB-06-1AK
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Kaizen Series (BK)

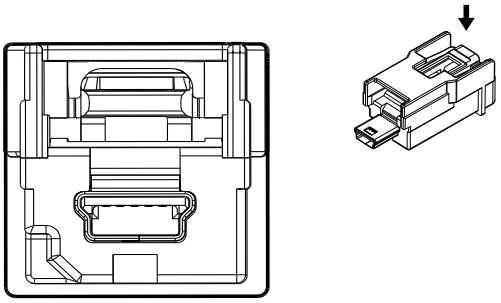
Terminal Part Information

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

X83R Auxiliary Audio Input - Rear X1 (IO5/IO6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1 - 3	—	—	—	Not Occupied	—	—
4	0.35	BK/WH	2051	Signal Ground	I	—
5	—	—	—	Not Occupied	—	—
6	0.5	RD/VT	340	Battery Positive Voltage	I	—

X83R Auxiliary Audio Input - Rear X2 (IO5/IO6)



2807491

Connector Part Information

Harness Type: Floor Console USB
OEM Connector: 13580213
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (GY)

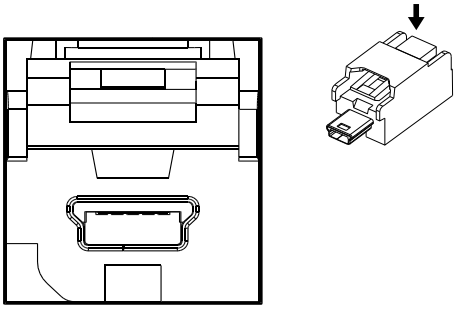
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

X83R Auxiliary Audio Input - Rear X2 (IO5/IO6)

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

X83R Auxiliary Audio Input - Rear X3 (IO5/IO6)



3214018

Connector Part Information

Harness Type: Floor Console USB
OEM Connector: 13584747
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (GY)

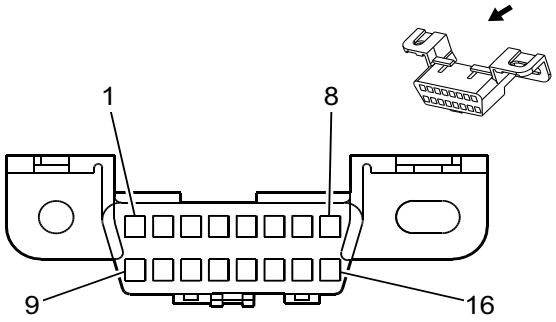
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

X83R Auxiliary Audio Input - Rear X3 (IO5/IO6)

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

X84 Data Link Connector



68793

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12110250
Service Connector: 12110250
Description: 16-Way F 150 Metri-Pack Series (BK)

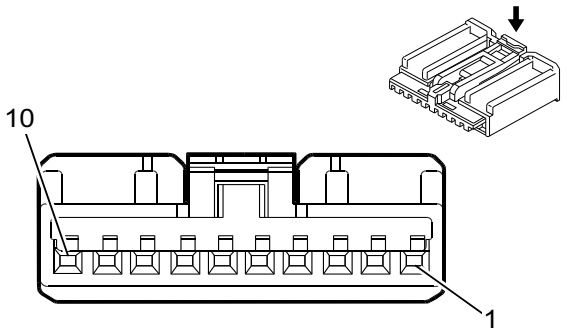
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13580059	J-35616-14 (GN)	J-38125-12A	12129484	Delphi 19	E	A
II	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	0.5	GN	5060	Low Speed GMLAN Serial Data	II	—
2 - 3	—	—	—	Not Occupied	—	—
4	0.5	BK	2050	Ground	II	—
5	0.75	BK/WH	2151	Signal Ground	I	—
6	0.35	BU	2500	High Speed GMLAN Serial Data (+) 1	II	—
7 - 11	—	—	—	Not Occupied	—	—
12	0.5	BU/YE	6105	High Speed GMLAN Serial Data (+) 2	II	—
13	0.5	WH	6106	High Speed GMLAN Serial Data (-) 2	II	—
14	0.35	WH	2501	High Speed GMLAN Serial Data (-) 1	II	—
15	—	—	—	Not Occupied	—	—
16	0.5	RD/WH	640	Battery Positive Voltage	II	—

X85 Steering Wheel Air Bag Coil X1



1862241

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 15269795
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F 0.64 Kaizen Series (BK)

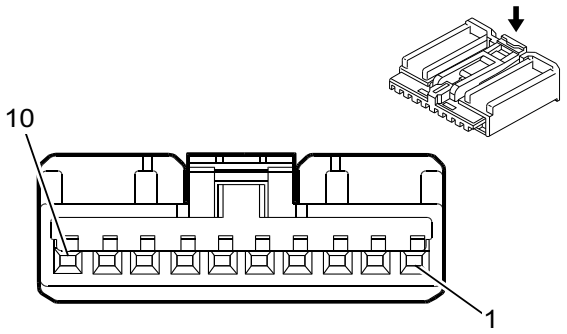
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	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
1	0.35	RD/YE	3040	Battery Positive Voltage	I	—
2	0.5	GN/BK	3894	Local Interconnect Network Serial Data Bus 12	I	—
3	—	—	—	Not Occupied	—	—
4	0.35	GY/OG	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	I	—
5	0.35	BN	6136	Control	I	—
6	0.35	WH	1444	12V Reference	I	—
7	0.35	GN	6818	Steering Wheel Resistor Ladder Signal 1	I	—
8	0.35	BN/YE	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	—
9	0.5	BK	2050	Ground	I	—
10	0.35	GN/WH	3287	Horn Switch Signal	I	—

X85 Steering Wheel Air Bag Coil X2



1862241

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: AIT2PB-10-1AK
Service Connector: 13576634
Description: 10-Way F 0.64 Kaizen Series (BK)

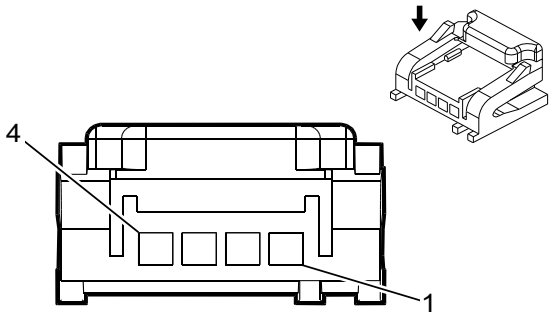
Terminal Part Information

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

X85 Steering Wheel Air Bag Coil X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GN/WH	3287	Horn Switch Signal	I	—
2	0.5	BK	2050	Ground	I	—
3	0.35	BN/GN	1884	Cruise Control Set/Coast/Resume/Accelerate Switch Signal	I	—
4	0.35	GN	6818	Steering Wheel Resistor Ladder Signal 1	I	—
5	0.35	WH/RD	1444	12V Reference	I	—
6	0.35	BN	6136	Control	I	—
7	0.35	GY/GN	5737	Adaptive Cruise Control Gap Up/Down Switch Signal	I	—
8	—	—	—	Not Occupied	—	—
9	0.5	GN/BK	3894	Local Interconnect Network Serial Data Bus 12	I	—
10	0.35	RD/YE	3040	Battery Positive Voltage	I	—

X85 Steering Wheel Air Bag Coil X3



1399226

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15393421
Service Connector: 13580115
Description: 4-Way F 0.64 Micro-Pack Series (YE)

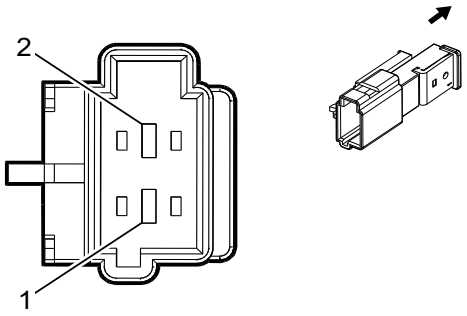
Terminal Part Information

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

X85 Steering Wheel Air Bag Coil X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH/OG	3020	Steering Wheel Module Stage 1 Low Control	I	—
2	0.35	OG/GN	3021	Steering Wheel Module Stage 1 High Control	I	—
3	0.35	BN/OG	3022	Steering Wheel Module Stage 2 Low Control	I	—
4	0.35	OG/VT	3023	Steering Wheel Module Stage 2 High Control	I	—

X85 Steering Wheel Air Bag Coil X4



2339581

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1563190-1
Service Connector: 19367515
Description: 2-Way M 1.6 Timer Series (BK)

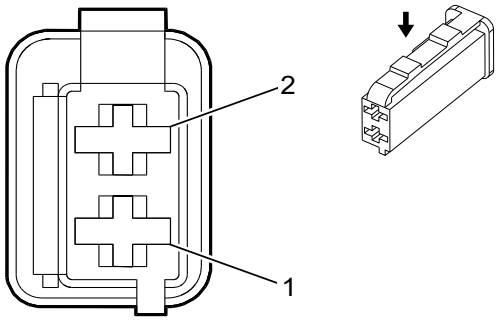
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-34 (YE)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X85 Steering Wheel Air Bag Coil X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
2	0.5	BK	2050	Ground	I	—

X85 Steering Wheel Air Bag Coil X5 (UVD)



2339593

Connector Part Information

Harness Type: Steering Wheel
OEM Connector: 19179871
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way F 1.6 Timer Series (BK)

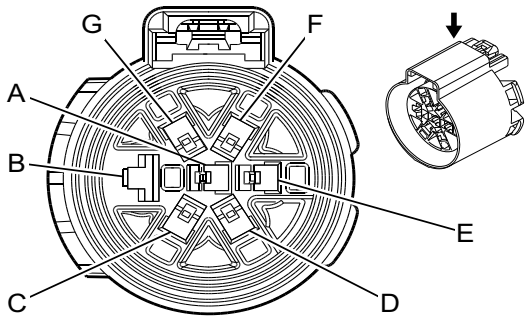
Terminal Part Information

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

X85 Steering Wheel Air Bag Coil X5 (UVD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	VT/WH	1139	Run/Crank Ignition 1 Voltage	I	—
2	0.75	BK	2050	Ground	I	—

X88 Trailer Connector



2056936

Connector Part Information

Harness Type: Chassis
OEM Connector: 13857223
Service Connector: 13583927
Description: 7-Way F 280, 630 Metri-Pack Series, Sealed (BK)

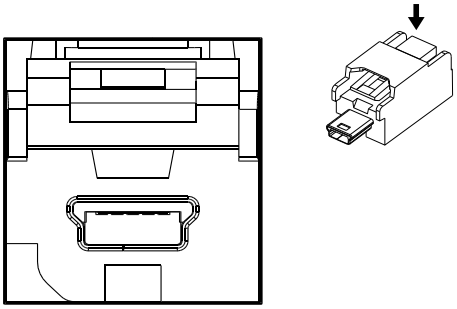
Terminal Part Information

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

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	GY	1624	Trailer Backup Lamp Control	II	—
B	6	BK	22	Trailer Ground	I	—
C	2.5	BU	47	Trailer Auxiliary Control	II	—
D	0.75	GN	1619	Right Rear Trailer Stop/Turn Lamp Control	II	—
E	4	OG	742	Battery Positive Voltage	II	—
F	1.5	BN	2109	Trailer Park Lamp Control	II	—
G	0.75	YE	1618	Left Rear Trailer Stop/Turn Lamp Control	II	—

X92 USB Receptacle (IO5/IO6)



3214018

Connector Part Information

Harness Type: Floor Console USB
OEM Connector: 13584747
Service Connector: Service by Cable Assembly — See Part Catalog
Description: 5-Way M 2.0 Mini-B USB Type (GY)

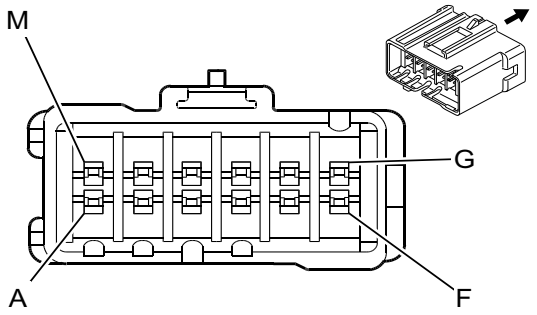
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

X92 USB Receptacle (IO5/IO6)

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

Splice Pack Connector End Views
JX200 Splice Pack



831366

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 15305291
Service Connector: 15305291
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

JX200 Splice Pack

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GN	5060	Low Speed GMLAN Serial Data	II	—
B	—	—	—	Not Occupied	—	—
C	0.5	GN	5060	Low Speed GMLAN Serial Data	II	—
D	—	—	—	Not Occupied	—	—
E	0.35	GN	5060	Low Speed GMLAN Serial Data	I	—
F - H	—	—	—	Not Occupied	—	—
J	0.5	GN	5060	Low Speed GMLAN Serial Data	II	—
K	0.35	GN	5060	Low Speed GMLAN Serial Data	I	—
L	0.5	GN	5060	Low Speed GMLAN Serial Data	II	—
M	—	—	—	Not Occupied	—	—

JX2001 Splice Pack

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Connector Part Information

Harness Type: Body
OEM Connector: UWELD14
Service Connector: Pending
Description: —

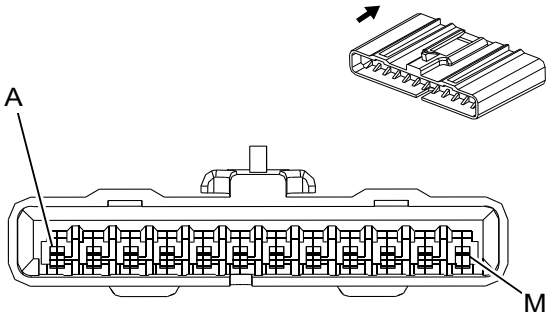
Terminal Part Information

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

JX2001 Splice Pack

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	GN	5060	Low Speed GMLAN Serial Data	I	—
F	0.35	GN	5060	Low Speed GMLAN Serial Data	I	—
J	0.5	GN	5060	Low Speed GMLAN Serial Data	I	—

JX202 Splice Pack



966355

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 12176461
Service Connector: 15305914
Description: 12-Way F 150 GT Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	C	A
II	13575735	J-35616-14 (GN)	J-38125-553	12191812	Delphi 19	E	C

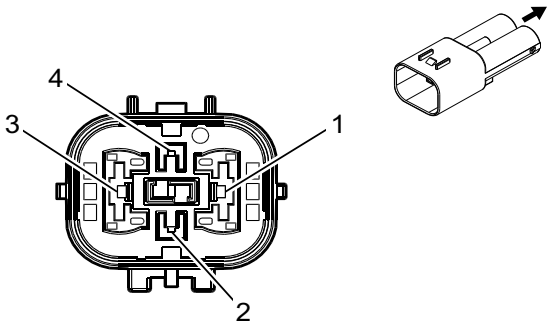
JX202 Splice Pack

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GY/GN	1102	Low Speed GMLAN Serial Data #2	II	—
B	0.35 0.5	GY/GN GY/GN	1102 1102	Low Speed GMLAN Serial Data #2 Low Speed GMLAN Serial Data #2	II II	UDC -UDC
C	—	—	—	Not Occupied	—	—
D	0.5	GY/GN	1102	Low Speed GMLAN Serial Data #2	II	—
E	0.5	GY/GN	1102	Low Speed GMLAN Serial Data #2	II	—
F	—	—	—	Not Occupied	—	—
G	0.5	GY/GN	1102	Low Speed GMLAN Serial Data #2	II	—
H - J	—	—	—	Not Occupied	—	—
K	0.75	GY/GN	1102	Low Speed GMLAN Serial Data #2	I	—
L - M	—	—	—	Not Occupied	—	—

Inline Harness Connector End Views

X100 Battery Negative Harness to Power Steering Harness

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4694999

Connector Part Information

Harness Type: Battery Cable Negative
OEM Connector: 13514495
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.2, 9.5 MCON Series (BK)

Connector Part Information

Harness Type: Power Steering
OEM Connector: 2-2286733-1
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way M 1.2, 9.5 MCON Series (BK)

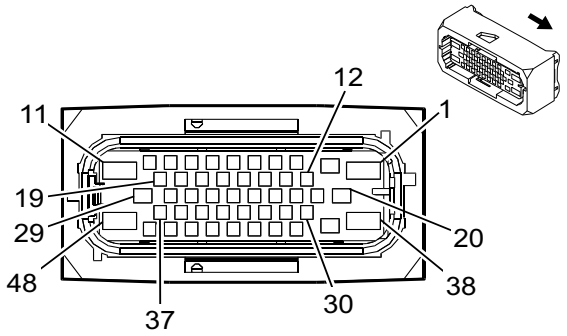
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	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
III	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

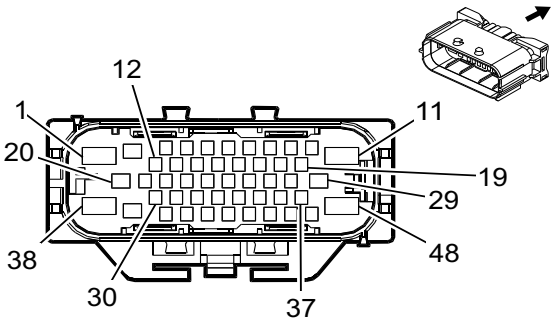
X100 Battery Negative Harness to Power Steering Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	10	RD/ VT	842	I	—	Battery Positive Voltage	1	10	RD/ VT	842	II	—
2	10	BK	1050	I	—	Ground	2	10	BK	1050	III	—

X101 Engine Harness to Body 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: Body

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	Not Available	Not Available	Not Available	Not Available
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	19119926	J-35616-43 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available
X	19301750	J-35616-32 (OR)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XI	19331731	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
XII	19355817	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XIII	19366837	J-35616-65B (LT BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

X101 Engine Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	YE/ VT	1553	IV	—	Transfer Case Motor Counter Clockwise Control	1	2.5	YE/ VT	1553	IX	—
2	0.75	VT/ GY	139	III	—	Run/Crank Ignition 1 Voltage	2	0.75	VT/ GY	139	XII	—
3	0.75	VT/ GY	139	VI	—	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	3	0.75 0.75	VT/ GY VT/ GY	139 139	XII VIII	LWN LGZ
4	0.5	WH/ GN	7475	VI	—	Incremental Encoder Sensor 8V Reference	4	0.5	WH/ GN	7475	XIII	—
5	0.5	WH/ BU	6311	VI	—	Cruise/ETC/ TCC Brake Signal	5	0.5	WH/ BU	6311	XIII	—
6	0.5	BK/ VT	1272	VII	—	Accelerator Pedal Position Low Reference 2	6	0.5	BK/ VT	1272	XI	—
7	0.5	BN/ WH	419	VI	—	Check Engine Indicator Control	7	0.5	BN/ WH	419	XIII	—
8	0.5	BN/ RD	1274	VII	—	Accelerator Pedal Position 5V Reference 2	8	0.5	BN/ RD	1274	XI	—
9	0.5	YE	7474	VI	—	Incremental Encoder Direction Signal	9	0.5	YE	7474	XIII	—
10	0.75	BU/ BN	7573	VI	—	Electric Variable Displace-ment Supply	10	0.5	BU/ BN	7573	XIII	—
11	0.75	BK	1450	V	—	Ground	11	0.75	BK	1450	X	—
12	0.5	BK	1782	VI	—	Low Refer-ence	12	0.5	BK	1782	XIII	—
13	0.5	GN/ GY	465	VI	—	Fuel Pump Primary Relay Control	13	0.5	GN/ GY	465	XIII	—
14	0.5	WH/ BK	2366	VI	—	Cooling Fan Control Relay Speed Signal	14	0.5	WH/ BK	2366	XIII	—
15	0.5	BU/ WH	890	VI	—	Fuel Tank Pressure Sensor Signal	15	0.5	BU/ WH	890	XIII	—
16	0.5	YE/ RD	2709	VI	—	Fuel Tank Pressure Sensor 5V Reference	16	0.5	YE/ RD	2709	XIII	—

X101 Engine Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
17	0.5	BK/GN	6281	VI	—	Fuel Level Sensor Low Reference	17	0.5	BK/GN	6281	XIII	—
18	0.5	BU/VT	1589	VI	—	Primary Fuel Level Sensor Signal	18	0.5	BU/VT	1589	VIII	—
19	0.75	BU/YE	7574	VI	—	Electric Variable Displacement Control	19	0.5	BU/YE	7574	XIII	—
20	2.5	YE/BN	1569	I	—	Transfer Case Lock Solenoid Control	20	2.5	YE/BN	1569	XII	—
21	0.5 0.5	BK/YE GN/BN	7447 507	VI VI	LCV/LGZ LWN	Fuel Line Pressure Sensor Low Reference Wait To Start Indicator Control	21	0.5 0.5	BK/YE GN/BN	7447 507	XIII XIII	LCV/LGZ LWN
22	0.5	BU/GY	7473	VI	—	Incremental Encoder Impulse Signal	22	0.5	BU/GY	7473	XIII	—
23	—	—	—	—	—	Not Occupied	23	—	—	—	—	—
24	0.5	BK/BU	1271	VII	—	Accelerator Pedal Position Low Reference 1	24	0.5	BK/BU	1271	XI	—
25	0.5	WH/RD	1164	VII	—	Accelerator Pedal Position 5V Reference 1	25	0.5	WH/RD	1164	XI	—
26	0.5	WH	1310	VI	—	EVAP Canister Vent Solenoid Control	26	0.5	WH	1310	XIII	—
27	0.5	WH/RD	7477	VI	—	Rotary Position Sensor 5V Reference	27	0.5	WH/RD	7477	XIII	—
28	0.5 0.5	BN WH/GN	6305 7479	VI VI	LGZ NQ6 +LCV/ LWN	Brake Vacuum Switch Signal Rotary Position Sensor Signal	28	0.5 0.5	BN WH/GN	6305 7479	XIII XIII	LGZ NQ6+LCV/ LWN
29	2.5 0.5	BN/VT YE/BK	1470 7478	I II	LGZ NQ6 +LCV/ LWN	Brake Booster Pump Motor Control Rotary Position Sensor Low Reference	29	2.5 0.5	BN/VT YE/BK	1470 7478	XII XIII	LGZ NQ6+LCV/ LWN

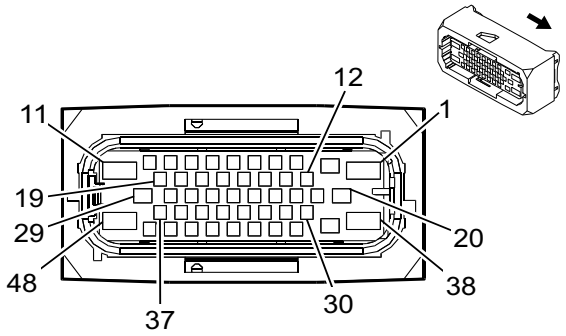
X101 Engine Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
30	0.5	BK/BU	61	VI	—	Outside Ambient Temperature Sensor Low Reference	30	0.5	BK/BU	61	XIII	—
31	0.5	BU/GY	636	VI	—	Outside Ambient Air Temperature Sensor Signal	31	0.5	BU/GY	636	XIII	—
32	0.5	YE/WH	1161	VII	—	Accelerator Pedal Position Signal 1	32	0.5	YE/WH	1161	XI	—
33	0.5 0.5	BK/YE BK/GY	5382 6110	VI VI	MYB N8D	Brake Position Sensor Low Reference Brake Position Sensor Low Reference Clutch Apply Sensor Low Reference	33	0.5 0.5 0.5	BK/YE BK/YE BK/GY	5382 5382 6110	VIII XIII XIII	M5T MYB N8D
34	0.5 0.5	WH/GN YE	5380 6111	VI VI	MYB N8D	Brake Position Sensor Signal Brake Position Sensor Signal Clutch Apply Sensor Signal	34	0.5 0.5 0.5	WH/GN WH/GN YE	5380 5380 6111	VIII XIII XIII	M5T MYB N8D
35	0.5 0.5	WH/RD GY/RD	5381 6109	VI VI	MYB N8D	Brake Position Sensor 5V Reference Clutch Apply Sensor 5V Reference	35	0.5 0.5	WH/RD GY/RD	5381 6109	XIII XIII	MYB N8D
36	0.5 0.5	BU/YE BU/BK	7493 7493	VI VI	LCV LGZ	High Speed GMLAN Serial Data (+)3 High Speed GMLAN Serial Data (+)3	36	0.5 0.5	BU/YE BU/BK	7493 7493	XIII XIII	LCV LGZ
37	0.5	WH	7494	VI	—	High Speed GMLAN Serial Data (-)3	37	0.5	WH	7494	XIII	—
38	2.5	YE/GY	1552	IV	—	Transfer Case Motor Clockwise Control	38	2.5	YE/GY	1552	IX	—
39	2.5	RD/GY	1342	I	—	Battery Positive Voltage	39	2.5	RD/GY	1342	XII	—

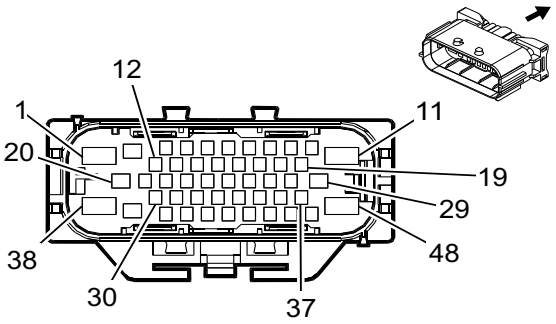
X101 Engine Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
40	0.5	BK/ BU	6813	VI	—	Coolant Temperature Sensor 2 Low Refer- ence	40	0.5	BK/ BU	6813	XIII	—
41	0.5 0.5	YE/ BK BU/ BK	3000 7116	VI VI	LCV LWN	Front Axle Differential Lock Control Coolant Temperature Sensor 2 Signal Front Axle Differential Lock Control	41	0.5 0.5 0.5	BU/ BK YE/ BK BU/ BK	7116 3000 7116	XIII XIII VIII	LWN LCV LGZ
42	0.5	VT/ YE	5985	VI	—	Accessory Wakeup Serial Data	42	0.5	VT/ YE	5985	XIII	—
43	0.5	VT	7476	VI	—	Incremental Encoder Sensor Low Reference	43	0.5	VT	7476	XIII	—
44	0.5	BU/ WH	7446	VI	—	Fuel Line Pressure Sensor Signal	44	0.5	BU/ WH	7446	XIII	—
45	0.5	GY	3890	VI	—	Aero Shutter Control 2	45	0.5	GY	3890	XIII	—
46	0.5	BU	2500	VI	—	High Speed GMLAN Serial Data (+) 1	46	0.5	BU	2500	XIII	—
47	0.5	WH	2501	VI	—	High Speed GMLAN Serial Data (-) 1	47	0.5	WH	2501	XIII	—
48	0.5	BN/ RD	7445	V	—	Fuel Line Pressure Sensor 5V Reference	48	0.5	BN/ RD	7445	X	—

X102 Forward Lamp Harness to Body Harness



3620765



3240126

Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 15509588

Service Connector: 19356278

Description: 48-Way F 1.5 MCP, 2.8 JPT, 6.3 MCP Series, Sealed (YE)

Connector Part Information

Harness Type: Body

OEM Connector: 15513436

Service Connector: 19301796

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	13580830	J-35616-4A (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	19119381	J-35616-14 (GN)	J-3125-560	Not Available	Not Available	Not Available	Not Available
III	19301757	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	A	B
IV	19301757	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	C	A
V	19301776	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VI	19329757	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VII	19330701	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	13578882	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
X	13581368	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XI	19119926	J-35616-43 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XII	19331731	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
XIII	19368136	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

X102 Forward Lamp Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	BN/VT	1470	III	—	Brake Booster Pump Motor Control	1	2.5	BN/VT	1470	XI	—
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
3	0.75	WH/VT	1430	V	—	Exterior Courtesy Lamp Control	3	0.75	WH/VT	1430	VIII	—
4 - 5	—	—	—	—	—	Not Occupied	4 - 5	—	—	—	—	—
6	0.75	VT/GY	709	V	—	Left Park Lamp Control	6	0.5	VT/GY	709	VIII	—
7	—	—	—	—	—	Not Occupied	7	—	—	—	—	—
8	0.75	GY/BN	309	V	—	Right Park Lamp Control	8	0.5	GY/BN	309	VIII	—
9	—	—	—	—	—	Not Occupied	9	—	—	—	—	—
10	1.5	WH	92	VII	—	Windshield Wiper Motor High Speed Control	10	1.5	WH	92	XIII	—
11	1.5	YE/BN	95	IV	—	Windshield Wiper Motor Low Speed Control	11	1.5	YE/BN	95	XI	—
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—
13	0.5	OG/YE	354	VI	—	Left Front Discriminating Sensor Signal	13	0.5	OG/YE	354	XII	—
14	0.5	BK/OG	5045	VI	—	Left Front Discriminating Sensor Low Reference	14	0.5	BK/OG	5045	XII	—
15 - 16	—	—	—	—	—	Not Occupied	15 - 16	—	—	—	—	—
17	0.35	VT/GY	1054	II	—	Stop Lamp Control	17	0.5	VT/GY	1054	VIII	—
18	—	—	—	—	—	Not Occupied	18	—	—	—	—	—
19	1.5	YE	312	VII	—	Right Headlamp Low Beam Control	19	1.5	YE	312	XIII	—
20	—	—	—	—	—	Not Occupied	20	—	—	—	—	—
21	0.5	OG/GN	1409	VI	—	Right Front Discriminating Sensor Signal	21	0.5	OG/GN	1409	XII	—

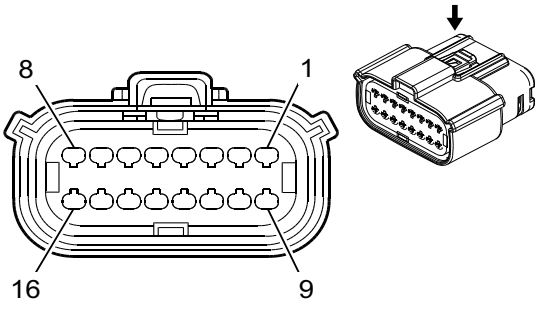
X102 Forward Lamp Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
22	0.5	BK/OG	5600	VI	—	Right Front Discriminating Sensor Low Reference	22	0.5	BK/OG	5600	XII	—
23	—	—	—	—	—	Not Occupied	23	—	—	—	—	—
24	0.5	WH/BK	2366	V	—	Cooling Fan Control Relay Speed Signal	24	0.5	WH/BK	2366	VIII	—
25	0.5	VT	185	V	—	Low Washer Fluid Indicator Control	25	0.35	VT	185	IX	—
26	0.5	BU/GY	636	V	—	Outside Ambient Air Temperature Sensor Signal	26	0.5	BU/GY	636	VIII	—
27	0.5	BK/BU	61	V	—	Outside Ambient Temperature Sensor Low Reference	27	0.5	BK/BU	61	VIII	—
28	—	—	—	—	—	Not Occupied	28	—	—	—	—	—
29	0.75	GN/VT	1315	I	—	Right Front Turn Signal Lamp Control	29	0.75	GN/VT	1315	X	—
30 - 34	—	—	—	—	—	Not Occupied	30 - 34	—	—	—	—	—
35	0.5	GY	3890	V	—	Aero Shutter Control 2	35	0.5	GY	3890	VIII	—
36	—	—	—	—	—	Not Occupied	36	—	—	—	—	—
37	1.5	YE	712	VII	—	Left Headlamp Low Beam Control	37	1.5	YE	712	XIII	—
38	1.5	BK	3150	IV	—	Ground	38	1.5	BK	3150	XI	—
39	—	—	—	—	—	Not Occupied	39	—	—	—	—	—
40	1	VT/WH	7256	VII	—	Front Differential Lock Actuator Supply Voltage	40	1	VT/WH	7256	XIII	—
41	1	VT/BN	7258	VII	—	Rear Differential Lock Actuator Supply Voltage	41	1	VT/BN	7258	XIII	—
42 - 43	—	—	—	—	—	Not Occupied	42 - 43	—	—	—	—	—

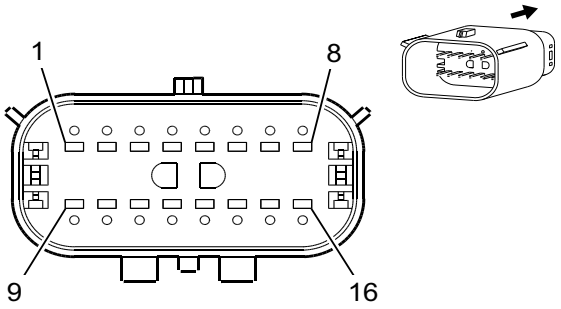
X102 Forward Lamp Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
44	0.5 0.5	YE/BK BU/WH	3000 7120	V V	LCV LGZ	Coolant Temperature Sensor 2 Signal Rear Axle Differential Lock Control	44	0.5 0.5	YE/BK BU/BN	3000 7120	VIII VIII	LCV LGZ
45	0.5	BK/BU	6813	V	—	Coolant Temperature Sensor 2 Low Reference	45	0.5	BK/BU	6813	VIII	—
46	—	—	—	—	—	Not Occupied	46	—	—	—	—	—
47	0.75	BU/WH	1314	V	—	Left Front Turn Signal Lamp Control	47	0.75	BU/WH	1314	VIII	—
48	1.5	BN	2109	IV	—	Trailer Park Lamp Control	48	1.5	BN	2109	XI	—

X103 Chassis Harness to Power Steering Harness (ZR2)



2548389



2548390

Connector Part Information

Harness Type: Chassis
OEM Connector: 33472-1606
Service Connector: 13584788
Description: 16-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Power Steering
OEM Connector: 33482-1601
Service Connector: Service by Harness - See Part Catalog
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	13575808	J-35616-2A (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
II	13582289	J-35616-16 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
III	19300635	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

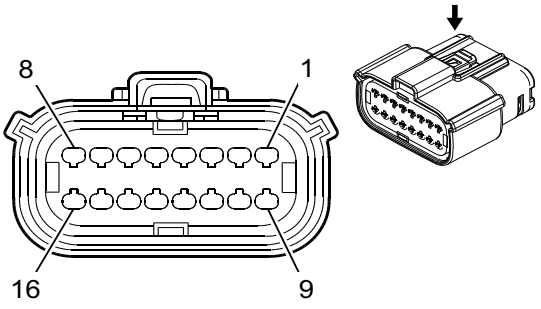
X103 Chassis Harness to Power Steering Harness (ZR2)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	VT/BK	2139	I	—	Run/Crank Ignition 1 Voltage	1	0.75	VT/BK	2139	IV	—
2	0.5	WH	2501	III	—	High Speed GMLAN Serial Data (-) 1	2	0.5	WH	2501	IV	—
3	0.5	BU	2500	III	—	High Speed GMLAN Serial Data (+) 1	3	0.5	BU	2500	IV	—
4	0.5	WH	6106	III	—	High Speed GMLAN Serial Data (-) 2	4	0.5	WH	6106	IV	—
5	0.5	BU/YE	6105	III	—	High Speed GMLAN Serial Data (+) 2	5	0.5	BU/YE	6105	IV	—

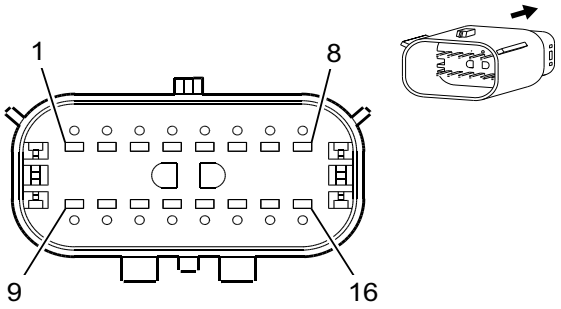
X103 Chassis Harness to Power Steering Harness (ZR2) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.5	GY/BK	1570	III	—	Front Axle Actuator Control	6	0.5	GY/BK	1570	IV	—
7	0.5	RD/BN	5940	III	—	Battery Positive Voltage	7	0.5	RD/BN	5940	IV	—
8	0.5	WH/BU	5986	III	—	Serial Data Communication Enable	8	0.5	WH/BU	5986	IV	—
9	0.5	WH	2501	III	—	High Speed GMLAN Serial Data (-) 1	9	0.5	WH	2501	IV	—
10	0.5	BU	2500	III	—	High Speed GMLAN Serial Data (+) 1	10	0.5	BU	2500	IV	—
11	0.5	WH	6106	III	—	High Speed GMLAN Serial Data (-) 2	11	0.5	WH	6106	IV	—
12	0.5	BU/YE	6105	III	—	High Speed GMLAN Serial Data (+) 2	12	0.5	BU/YE	6105	IV	—
13	0.75	BK	1450	I	—	Ground	13	0.75	BK	1450	IV	—
14	0.5	YE/WH	1695	III	—	Four Wheel Drive Wheel Lock Indicator Control	14	0.5	YE/WH	1695	IV	—
15	1	VT/WH	7256	I	—	Front Differential Lock Actuator Supply Voltage	15	1	VT/WH	7256	IV	—
16	1	WH/BK	7254	II	—	Front Differential Lock Actuator Low Control	16	1	GN/BK	7254	IV	—

X103 Chassis Harness to Power Steering Harness (-ZR2)



2548389



2548390

Connector Part Information

Harness Type: Chassis
OEM Connector: 33472-1606
Service Connector: 13584788
Description: 16-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Power Steering
OEM Connector: 33482-1643
Service Connector: Service by Harness - See Part Catalog
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	13575808	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	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required

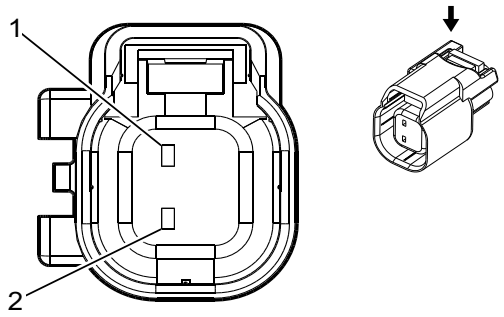
X103 Chassis Harness to Power Steering Harness (-ZR2)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	VT/BK	2139	I	—	Run/Crank Ignition 1 Voltage	1	0.75	VT/BK	2139	III	—
2	0.5	WH	2501	II	—	High Speed GMLAN Serial Data (-) 1	2	0.5	WH	2501	III	—
3	0.5	BU	2500	II	—	High Speed GMLAN Serial Data (+) 1	3	0.5	BU	2500	III	—
4	0.5	WH	6106	II	—	High Speed GMLAN Serial Data (-) 2	4	0.5	WH	6106	III	—
5	0.5	BU/YE	6105	II	—	High Speed GMLAN Serial Data (+) 2	5	0.5	BU/YE	6105	III	—
6	0.5	GY/BK	1570	II	—	Front Axle Actuator Control	6	0.5	GY/BK	1570	III	—

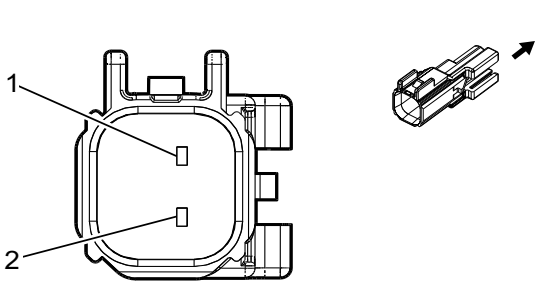
X103 Chassis Harness to Power Steering Harness (-ZR2) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
7	0.5	RD/ BN	5940	II	—	Battery Positive Voltage	7	0.5	RD/ BN	5940	III	—
8	0.5	WH/ BU	5986	II	—	Serial Data Communica-tion Enable	8	0.5	WH/ BU	5986	III	—
9	0.5	WH	2501	II	—	High Speed GMLAN Serial Data (-) 1	9	0.5	WH	2501	III	—
10	0.5	BU	2500	II	—	High Speed GMLAN Serial Data (+) 1	10	0.5	BU	2500	III	—
11	0.5	WH	6106	II	—	High Speed GMLAN Serial Data (-) 2	11	0.5	WH	6106	III	—
12	0.5	BU/ YE	6105	II	—	High Speed GMLAN Serial Data (+) 2	12	0.5	BU/ YE	6105	III	—
13	0.75	BK	1450	I	—	Ground	13	0.75	BK	1450	III	—
14	0.5	YE/ WH	1695	II	—	Four Wheel Drive Wheel Lock Indicator Control	14	0.5	YE/ WH	1695	III	—
15	—	—	—	—	—	Front Differ-ential Lock Actuator Supply Voltage	15	1	VT/ WH	7256	III	—
16	—	—	—	—	—	Front Differ-ential Lock Actuator Low Control	16	1	WH/ BK	7254	III	—

X104 Forward Lamp Harness to Forward Lamp Extension Harness



3653749



3271068

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 34062-0038
Service Connector: 19329741
Description: 2-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Forward Lamp Extension
OEM Connector: 34675-0001
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 1.5 Series, Sealed (BK)

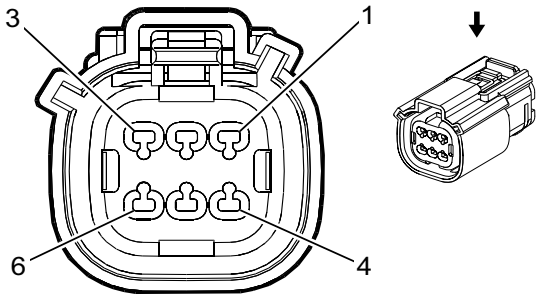
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

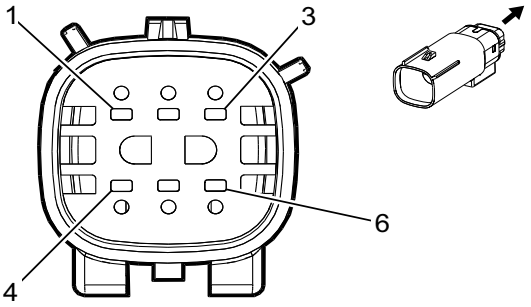
X104 Forward Lamp Harness to Forward Lamp Extension Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	YE/BK	3000	I	—	Coolant Temperature Sensor 2 Signal	1	0.5	YE/BK	3000	II	—
2	0.5	BK/BU	6813	I	—	Coolant Temperature Sensor 2 Low Reference	2	0.5	BK/BU	6813	II	—

X105 Forward Lamp Harness to Ambient Temperature Sensor Extension Harness



3225042



3225221

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 33472-0607
Service Connector: 19301527
Description: 6-Way F 150 MX Series, Sealed (GY)

Connector Part Information

Harness Type: Ambient Temperature Sensor Extension
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M

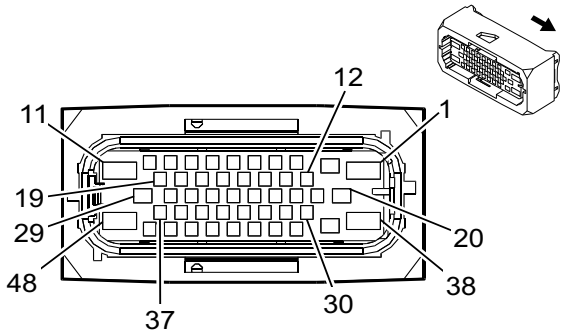
Terminal Part Information

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-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

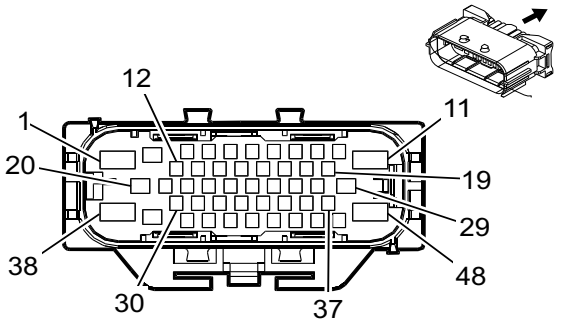
X105 Forward Lamp Harness to Ambient Temperature Sensor Extension Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BK	1250	I	—	Ground	1	0.75	BK	1250	II	—
2	0.5	WH/VT	4333	I	—	Aero Shutter Actuator Control	2	0.5	WH/VT	4333	II	—
3	0.5	GY	3890	I	—	Aero Shutter Control 2	3	0.5	GY	3890	II	—
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
5	0.5	BU/GY	636	I	—	Outside Ambient Air Temperature Sensor Signal	5	0.5	BU/GY	636	II	—
6	0.5	BK/BU	61	I	—	Outside Ambient Temperature Sensor Low Reference	6	0.5	BK/BU	61	II	—

X106 Body Harness to Chassis Harness



3240124



3240125

Connector Part Information

Harness Type: Body

OEM Connector: Not Available

Service Connector: 19119963

Description: 48-Way F 1.5 MCP, 2.8 JPT, 6.3 MCP Series, Sealed (GY)

Connector Part Information

Harness Type: Chassis

OEM Connector: 15513437

Service Connector: 13586850

Description: 48-Way M 1.6, 2.8, 5.8 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	13580821	J-35616-4A (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
II	19301757	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	A	B
III	19301757	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	B	G
IV	19301775	J-35616-40 (BU)	J-38125-556	Not Available	Not Available	Not Available	Not Available
V	19301776	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VI	19330701	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VII	13575376	J-35616-43 (RD)	J-38125-557	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	19119926	J-35616-43 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available
X	19301750	J-35616-32 (OR)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XI	19355817	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XII	19368136	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

X106 Body Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	4	RD/GY	1042	III	—	Battery Positive Voltage	1	4	RD/GY	1042	VII	—

X106 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
2	2.5	RD/YE	442	I	—	Battery Positive Voltage	2	2.5	RD/YE	442	XI	—
3	0.75	GY	1624	V	—	Trailer Backup Lamp Control	3	0.75	GY	1624	VIII	—
4	0.75	GN	1619	V	—	Right Rear Trailer Stop/ Turn Lamp Control	4	0.75	GN	1619	VIII	—
5	0.75	YE	1618	V	—	Left Rear Trailer Stop/ Turn Lamp Control	5	0.75	YE	1618	VIII	—
6	0.5	BN/GY	2609	V	—	Right Rear Park Lamp Control	6	1.5	BN/GY	2609	XII	—
7	0.5	GN/WH	24	V	—	Backup Lamp Control	7	0.5	GN/WH	24	VIII	—
8	0.5	GN/YE	6846	V	—	Rear License Lamp Control	8	0.5	GN/YE	6846	VIII	—
9	0.5 0.5	VT/YE GN/BK	5985 7633	V V	LCV/LGZ LWN	Accessory Wakeup Serial Data Integrated Trailer Brake Controller User Gain Signal	9	0.5 0.5	VT/YE GN/BK	5985 7633	VIII VIII	LWB LWN
10	0.75	VT/BK	2139	V	—	Run/Crank Ignition 1 Voltage	10	0.75	VT/BK	2139	VIII	—
11	0.75	BK	1450	IV	—	Ground	11	0.75	BK	1450	X	—
12	1.5	GY/YE	7542	VI	—	Left Rear Stop Lamp Control	12	1.5	GY/YE	7542	XII	—
13	0.5	VT/GN	1739	V	—	Run/Crank Ignition 1 Voltage	13	0.5	VT/GN	1739	VIII	LWB
14	0.5	BN/BU	2509	V	—	Left Rear Park Lamp Control	14	1.5	BN/BU	2509	XII	—
15	1.5	WH/YE	7541	VI	—	Right Rear Stop Lamp Control	15	1.5	WH/YE	7541	XII	—
16	0.75	VT/GY	139	V	—	Run/Crank Ignition 1 Voltage	16	0.75	VT/GY	139	VIII	—
17	0.75 0.5	VT/GY BU/RD	139 7632	V V	LCV/LGZ LWN	Run/Crank Ignition 1 Voltage Integrated Trailer Brake Controller Switch 5V Reference	17	0.75 0.5	VT/GY BU/RD	139 7632	VIII VIII	LWB LWN

X106 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
18	0.5	YE	7635	V	—	Integrated Trailer Brake Controller Manual Apply Signal	18	0.5	YE	7635	VIII	—
19	0.5	WH	2501	V	—	High Speed GMLAN Serial Data (-) 1	19	0.5	WH	2501	VIII	—
20	2.5	RD/VT	1940	I	—	Battery Positive Voltage	20	2.5	RD/VT	1940	XI	—
21	0.5	RD/BN	5940	V	—	Battery Positive Voltage	21	0.5	RD/BN	5940	VIII	—
22	0.5	BK/GN	6281	V	—	Fuel Level Sensor Low Reference	22	0.5	BK/GN	6281	VIII	—
23	0.5 0.5	BU/WH BU/VT	890 1589	V V	LCV/LGZ LWN	Fuel Tank Pressure Sensor Signal Primary Fuel Level Sensor Signal	23	0.5 0.5 0.5 0.5	BU/WH BU/VT BU/WH BU/VT	890 1589 890 1589	VIII VIII VIII VIII	LCV/LGZ LWN LCV/LGZ LWN
24	0.5 0.5	RD/GN YE/RD	2440 2709	V V	LCV/LGZ LWN	Battery Positive Voltage Fuel Tank Pressure Sensor 5V Reference	24	0.5 0.5	RD/GN YE/RD	2440 2709	VIII VIII	LCV/LGZ LWN
25	0.5 0.5 0.5	BK/GN BN BN	6281 6305 7634	V V V	LCV LGZ LWN	Fuel Level Sensor Low Reference Brake Vacuum Switch Signal Integrated Trailer Brake Controller Redundant Manual Apply Signal	25	0.5 0.5 0.5	BK/GN BN BN	6281 6305 7634	VIII VIII VIII	LCV LGZ LWN
26	0.5	WH/BU	5986	V	—	Serial Data Communication Enable	26	0.5	WH/BU	5986	VIII	—

X106 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
27	0.5 0.5 0.5 0.5	GN/GY GN/GY GN/GY BK/BN	465 465 465 7631	IV V IV V	LGZ/LCV LGZ/LCV LGZ/LCV LWN	Fuel Pump Primary Relay Control Fuel Pump Primary Relay Control Fuel Pump Primary Relay Control Integrated Trailer Brake Controller Switch Low Reference	27	0.5 0.5 0.5 0.5 0.5 0.5 0.5	GY GN/GY GN/GY GN/GY GY GN/GY BK/BN	5660 465 465 465 5660 465 7631	VIII XI VIII XI VIII VIII VIII	LCV LWB LWB LWB LCV LWB LWN
28	0.5	BU	2500	V	—	High Speed GMLAN Serial Data (+) 1	28	0.5	BU	2500	VIII	—
29	2.5	RD/GN	242	I	—	Battery Positive Voltage	29	2.5	RD/GN	242	XI	—
30	0.5	GY/BK	1570	V	—	Front Axle Actuator Control	30	0.5	GY/BK	1570	VIII	—
31	0.5	YE/WH	1695	V	—	Four Wheel Drive Wheel Lock Indicator Control	31	0.5	YE/WH	1695	VIII	—
32	0.5 0.5	VT/BK BU/VT	7121 1589	V V	EXTEND-ED CAB LCV/LGZ	Rear Axle Differential Lock Low Reference Primary Fuel Level Sensor Signal	32	0.5 0.5 0.5	VT/BK BU/VT VT/BK	7121 1589 7121	VIII VIII VIII	LWN LWB LWN
33	0.5 0.5	RD/GN VT/YE	2440 5985	V V	LCV/LGZ LWN	Battery Positive Voltage Accessory Wakeup Serial Data	33	0.5 0.5 0.5	VT/YE RD/GN VT/YE	5985 2440 5985	VIII VIII VIII	LWN+JL1 LWB LWN+JL1
34	0.5 0.5 0.5	WH BU/WH BU/BN	1310 7120 7120	V V V	LCV/LGZ LWN LWN	EVAP Canister Vent Solenoid Control Rear Axle Differential Lock Control Rear Axle Differential Lock Control	34	0.5 0.5 0.5	WH BU/WH BU/BN	1310 7120 7120	VIII VIII VIII	LWB LWN LWN

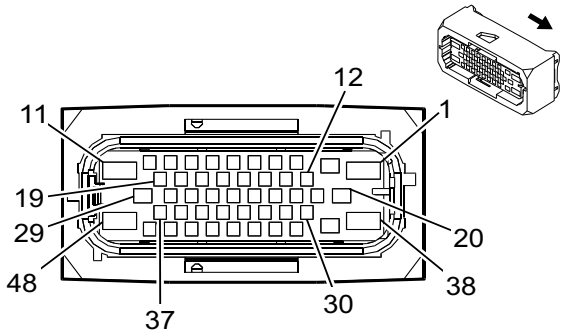
X106 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
35	0.5 0.5 0.5 0.5	GN/BK GN/BK BU/YE BU/BK	7118 7118 7493 7493	V IV IV V	(LWM +BHP) (LWM +BHP) LCV LGZ	Front Axle Differential Lock Low Reference Front Axle Differential Lock Low Reference High Speed GMLAN Serial Data (+)3 High Speed GMLAN Serial Data (+)3	35	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	BU/BK GN/BK BU/BK GN/BK BU/BK BU/BK GN/BK BU/BK BU/BK GN/BK	7493 7118 7493 7118 7493 7493 7118 7493 7493 7118	VIII VIII XI XI VIII XI VIII VIII XI VIII	LWB (LWM +BHP) LWB (LWM +BHP) LWB LWB (LWM +BHP) LWB LWB (LWM +BHP)
36	0.5 0.5 0.5 0.5	BU/BK WH WH WH	7116 7494 7494 7494	V IV V IV	(LWM +BHP) LCV/LGZ LCV/LGZ LCV/LGZ	Front Axle Differential Lock Control High Speed GMLAN Serial Data (-)3 High Speed GMLAN Serial Data (-)3 High Speed GMLAN Serial Data (-)3	36	0.5 0.5 0.5 0.5 0.5	BU/BK WH WH WH WH	7116 7494 7494 7494 7494	VIII VIII XI VIII XI	(LWM +BHP) LWB LWB LWB LWB
37	0.5	BU/YE	6105	V	—	High Speed GMLAN Serial Data (+) 2	37	0.5	BU/YE	6105	VIII	—
38	4	OG	742	III	—	Battery Positive Voltage	38	4	OG	742	VII	—
39	1.5	BN	2109	I	—	Trailer Park Lamp Control	39	1.5	BN	2109	XI	—
40	0.5	GN	6974	V	—	Camera Low Reference	40	0.5	GN	6974	VIII	—
41	0.5	GY/YE	6972	V	—	Camera Signal 2 +	41	0.5	GY/YE	6972	VIII	—
42	0.5	WH/BU	6973	V	—	Camera Signal 2	42	0.5	WH/BU	6973	VIII	—
43	0.5 0.5	VT/GY BK/YE	7117 7447	V V	(LWM +BHP) LCV/LGZ	Front Axle Differential Lock Indicator Control Fuel Line Pressure Sensor Low Reference	43	0.5 0.5	BK/YE VT/GY	7447 7117	VIII VIII	LWB LWN

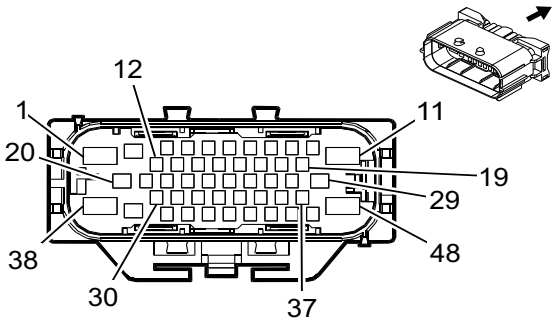
X106 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
44	0.5 0.5	BK/YE BU/WH	7259 7446	V V	(LWM +BHP) LCV/LGZ	Axle Differential Lock Switch Low Reference Fuel Line Pressure Sensor Signal	44	0.5 0.5	BK/YE BU/WH	7259 7446	VIII VIII	(LWM +BHP) LWB
45	0.5 0.5	YE/GN BN/RD	7122 7445	V V	(LWM +BHP) LCV/LGZ	Axle Differential Lock Switch Signal Fuel Line Pressure Sensor 5V Reference	45	0.5 0.5	BN/RD YE/GN	7445 7122	VIII VIII	LWB LWN
46	0.5	WH	6106	V	—	High Speed GMLAN Serial Data (-) 2	46	0.5	WH	6106	VIII	—
47	0.75 0.5	WH/VT YE	1430 7115	V V	LCV/LGZ LWN	Exterior Courtesy Lamp Control Rear Axle Differential Lock Indicator Control	47	0.75 0.5	WH/VT YE	1430 7115	VIII VIII	LWB LWN
48	2.5 2.5 2.5	BU RD/VT GY	47 1940 120	II II II	LCV/LGZ LGZ-BPH LWN	Trailer Auxiliary Control Battery Positive Voltage Fuel Pump Control	48	2.5 2.5 2.5	BU RD/VT GY	47 1940 120	IX IX IX	LCV/LGZ LWB LWN

X107 Engine Harness to Chassis Harness (LWN)



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	19301757	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	B	G
IV	19301757	J-35616-40 (BU)	J-38125-556	1241408-1	Lear 28	C	A
V	19301775	J-35616-40 (BU)	J-38125-556	Not Available	Not Available	Not Available	Not Available
VI	19301776	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VII	19330701	J-35616-14 (GN)	J-38125-215A	Not Available	Not Available	Not Available	Not Available
VIII	13575376	J-35616-43 (RD)	J-38125-557	Not Available	Not Available	Not Available	Not Available
IX	13575380	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
X	13581368	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XI	19119926	J-35616-43 (RD)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XII	19301750	J-35616-32 (OR)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XIII	19355817	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
XIV	19368136	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

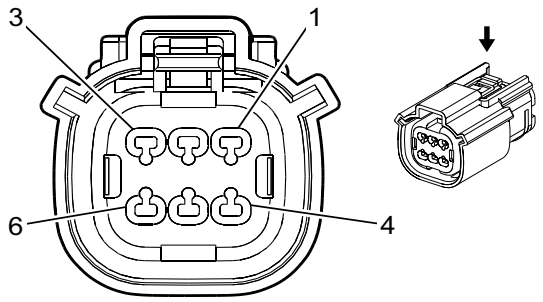
X107 Engine Harness to Chassis Harness (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	VT/ BU	3674	IV	—	NOx Sensor 1 Control	1	1.5	VT/ BU	3674	XI	—
2	0.5	BN/ BU	2926	II	—	Hydrocarbon Injector High Control	2	0.5	BN/ BU	2926	X	—
3	0.5	VT/ BN	2927	VI	—	Hydrocarbon Injector Low Control	3	0.5	VT/ BN	2927	IX	—
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
5	0.75	VT/ GY	139	VI	—	Run/Crank Ignition 1 Voltage	5	0.75	VT/ GY	139	IX	—
6	0.5	BU/ YE	6861	VI	—	Water In Fuel Sensor Signal	6	0.5	BU/ YE	6861	IX	—
7	1.5	VT/ BU	3674	VII	—	NOx Sensor 1 Control	7	1.5	VT/ BU	3674	XIV	—
8 - 9	—	—	—	—	—	Not Occupied	8 - 9	—	—	—	—	—
10	0.5	WH/ RD	6054	VI	—	Exhaust Pressure Sensor 5V Reference 1	10	0.5	WH/ RD	6054	IX	—
11	0.5	BK/ YE	6055	V	—	Exhaust Pressure Sensor Low Reference 1	11	0.5	BK/ YE	6055	XII	—
12	0.5	BU	6053	VI	—	Exhaust Pressure Sensor Signal 1	12	0.5	BU	6053	IX	—
13	0.5	VT/ GN	4320	VI	—	Selective Catalytic Reduction Power Module Wake-Up Signal	13	0.5	VT/ GN	4320	IX	—
14	0.5	BK/ BU	6783	VI	—	Exhaust Gas Temperature Sensor 2 Low Refer- ence	14	0.5	BK/ BU	6783	IX	—
15	0.5	BU/ GN	5377	VI	—	Exhaust Gas Temperature Sensor 2	15	0.5	BU/ GN	5377	IX	—
16 - 17	—	—	—	—	—	Not Occupied	16 - 17	—	—	—	—	—
18	0.5	BK/ GN	3657	VI	—	Exhaust Gas Temperature Sensor 3 Low Refer- ence	18	0.5	BK/ GN	3657	IX	—
19	0.5	GY/ GN	5378	VI	—	Exhaust Gas Temperature Sensor 3	19	0.5	GY/ GN	5378	IX	—

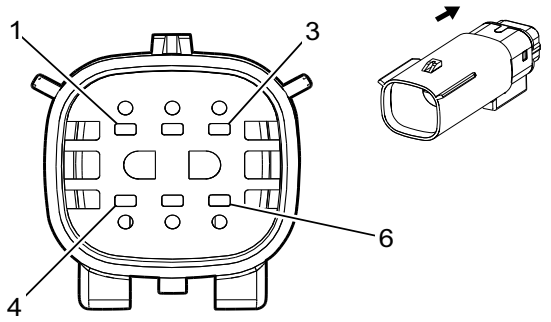
X107 Engine Harness to Chassis Harness (LWN) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
20	0.5	BK/ GY	3659	II	—	Exhaust Gas Temperature Sensor 4 Low Refer- ence	20	0.5	BK/ GY	3659	X	—
21	0.5	VT/ BN	3658	VI	—	Exhaust Gas Temperature Sensor 4 Signal	21	0.5	VT/ BN	3658	IX	—
22	0.5	BK/ VT	3661	VI	—	Exhaust Gas Temperature Sensor 5 Low Refer- ence	22	0.5	BK/ VT	3661	IX	—
23	0.5	BU/ GY	3660	VI	—	Exhaust Gas Temperature Sensor 5 Signal	23	0.5	BU/ GY	3660	IX	—
24 - 27	—	—	—	—	—	Not Occupied	24 - 27	—	—	—	—	—
28	0.5	BU/ BN	4498	VI	—	High Speed GMLAN Serial Data (+) 7	28	0.5	BU/ BN	4498	IX	—
29	0.5	WH	4499	II	—	High Speed GMLAN Serial Data (-) 7	29	0.5	WH	4499	X	—
30	0.5	BN/ GY	7072	VI	—	Sensor Fuel Temperature 1 Signal	30	0.5	BN/ GY	7072	IX	—
31	0.5	BN/ WH	7073	VI	—	Sensor Fuel Temperature 1 Low Refer- ence	31	0.5	BN/ WH	7073	IX	—
32 - 37	—	—	—	—	—	Not Occupied	32 - 37	—	—	—	—	—
38	4	BU	3921	III	—	DEF Heater Supply 1	38	4	BU	3921	VIII	—
39	2.5	BU/ GN	7071	I	—	Heater Fuel Control	39	2.5	BU/ GN	7071	XIII	—
40 - 48	—	—	—	—	—	Not Occupied	40 - 48	—	—	—	—	—

X108 Engine Harness to Cooling Fan Harness (LWN)



1986157



1986159

Connector Part Information

Harness Type: Engine
OEM Connector: 33472-0606
Service Connector: 13578533
Description: 6-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Cooling Fan
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M

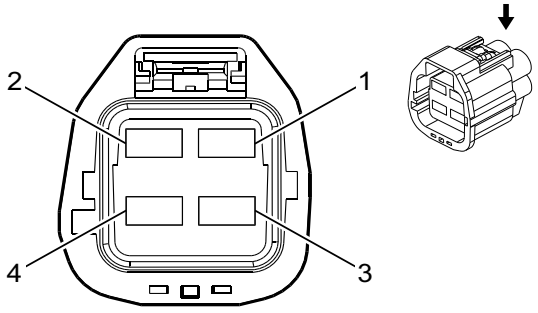
Terminal Part Information

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-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

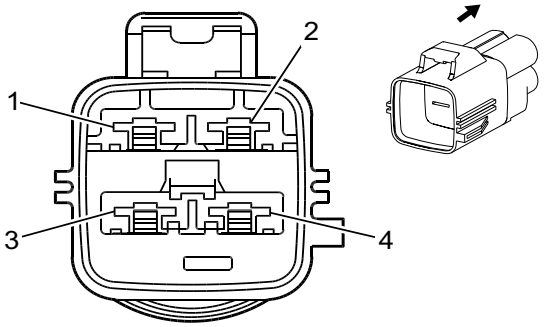
X108 Engine Harness to Cooling Fan Harness (LWN)

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	0.5	BK	550	I	—	Ground	6	0.5	BK	550	II	—

X109 Engine Harness to Forward Lamp Harness (LWN)



2852121



1853524

Connector Part Information

Harness Type: Engine
OEM Connector: 7283-3108-10
Service Connector: 19367523
Description: 4-Way F 6.3 Series, Sealed (D-GY)

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 7282-5595-10
Service Connector: 13585864
Description: 4-Way M 6.3 Series, Sealed (D-GY)

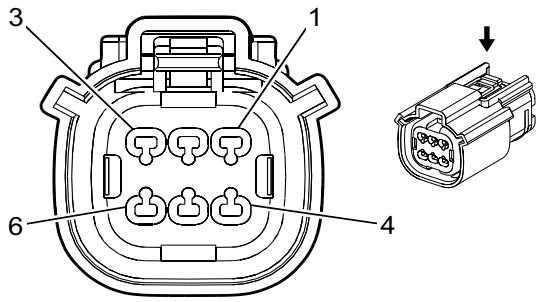
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (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

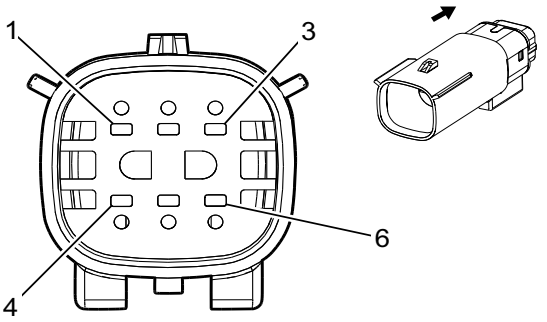
X109 Engine Harness to Forward Lamp Harness (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	6	BN/BU	104	I	—	Glow Plug Control	1	4	BN/BU	104	II	—
2	4	BU	3921	I	—	DEF Heater Supply 1	2	4	BU	3921	II	—
3	2.5	BU/GN	7071	I	—	Heater Fuel Control Heater Fuel Control	3	2.5	BU/GN	7071	II	—
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—

X110 Forward Lamp Harness to Left Front Lamp Harness



1986157



1986159

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 33472-0606
Service Connector: 13578533
Description: 6-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Left Front Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M

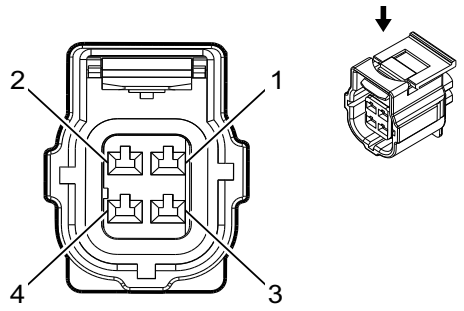
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

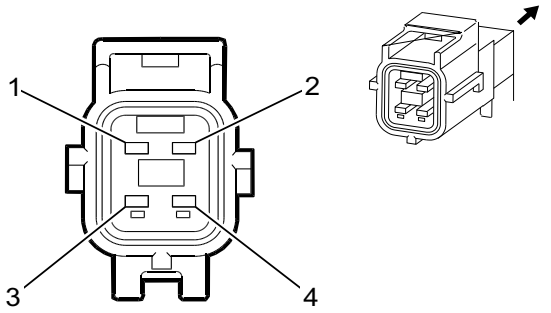
X110 Forward Lamp Harness to Left Front Lamp Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	BK	1150	I	—	Ground	1	1.5	BK	1150	III	—
2	1.5	YE	712	I	—	Left Headlamp Low Beam Control	2	1.5	BK	712	III	—
3	0.5	WH	711	II	—	Left Headlamp High Beam Control	3	0.5	BK	711	III	—
4	0.75	VT/GY	709	II	—	Left Park Lamp Control	4	0.75	BK	709	III	—
5	0.75	BU/WH	1314	II	—	Left Front Turn Signal Lamp Control	5	0.75	YE	1314	III	—
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

X111 Engine Harness to Glow Plug Jumper Harness (LWN)



2716365



1243485

Connector Part Information

Harness Type: Engine
OEM Connector: 184248-1
Service Connector: 13587793
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)

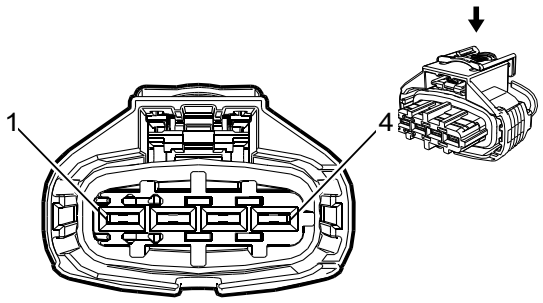
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-33 (YE)	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 (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2	GY/ BU	1581	I	—	Glow Plug Control 1	1	1.5	GN/ BK	—	II	—
2	2	GY/ BN	1582	I	—	Glow Plug Control 2	2	1.5	GN/ BK	—	II	—
3	2	GY/ GN	1583	I	—	Glow Plug Control 3	3	1.5	WH/ BK	—	II	—
4	2	GY/ YE	1584	I	—	Glow Plug Control 4	4	1.5	BK	—	II	—

X112 Engine Harness to Intake Manifold Pressure Harness Jumper Harness (LWN)



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2487930

Connector Part Information

Harness Type: Engine
OEM Connector: 1928405525
Service Connector: 13584423
Description: 4-Way F 2.8 Series, Sealed (BK)

Connector Part Information

Harness Type: —
OEM Connector: Not Available
Service Connector: —
Description: —

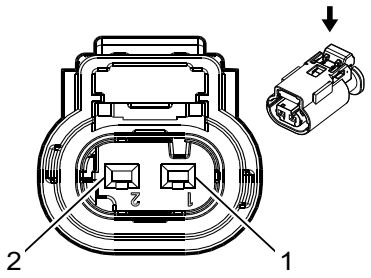
Terminal Part Information

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

X112 Engine Harness to Intake Manifold Pressure Harness Jumper Harness (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	BK/GN	469	I	—	Manifold Absolute Pressure Sensor Low Reference	1	—	—	—	—	—
2	0.5	BN	7348	I	—	Induction Air Temperature Sensor 2 Signal	2	—	—	—	—	—
3	0.5	GY/RD	2704	I	—	Manifold Absolute Pressure Sensor 5V Reference	3	—	—	—	—	—
4	0.5	GN/WH	432	I	—	Manifold Absolute Pressure Sensor Signal	4	—	—	—	—	—

X113 Engine Harness to Oil Pressure Control Solenoid Valve Jumper Harness (LGZ)



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2717066

Connector Part Information

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

Connector Part Information

Harness Type: Oil Pressure Control Solenoid Valve Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M

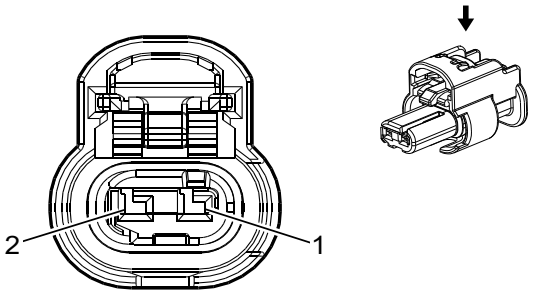
Terminal Part Information

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

X113 Engine Harness to Oil Pressure Control Solenoid Valve Jumper Harness (LGZ)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	VT/ BU	5293	I	—	Powertrain Main Relay Fused Supply 4	1	0.5	VT/ BU	5293	II	—
2	0.5	BU	179	I	—	Oil Pump Command Signal	2	0.5	BU	179	II	—

X114 Engine Harness to Temp Sensor Jumper Harness



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4036662

Connector Part Information

Harness Type: Engine
OEM Connector: 1-2203312-1
Service Connector: 19367750
Description: 2-Way F 1.2 MCON Series, Sealed (BK)

Connector Part Information

Harness Type: Temp Sensor Jumper
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M

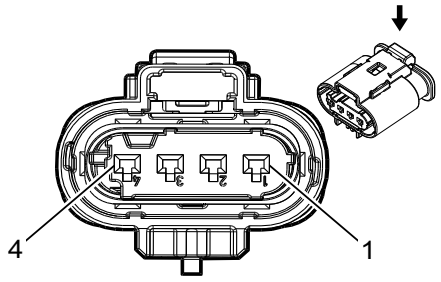
Terminal Part Information

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

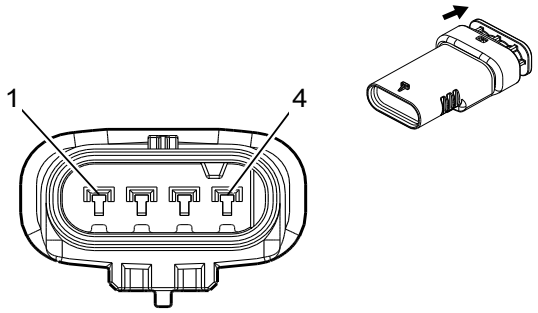
X114 Engine Harness to Temp Sensor Jumper Harness

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

X119 Engine Harness to Body Harness (NQ6+LGZ)



2717079



4560843

Connector Part Information

Harness Type: Engine
OEM Connector: 10010346
Service Connector: 13587299
Description: 4-Way F 1.2 Multilock Series, Sealed (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 10013906
Service Connector: 19354931
Description: 4-Way M 1.2 Multilock Series (GY)

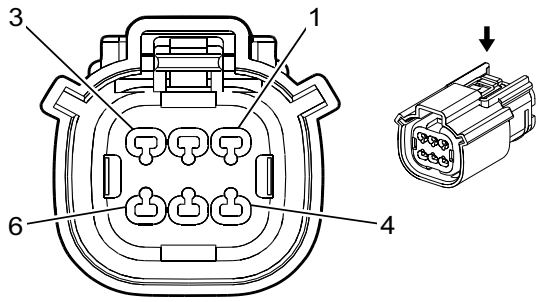
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (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

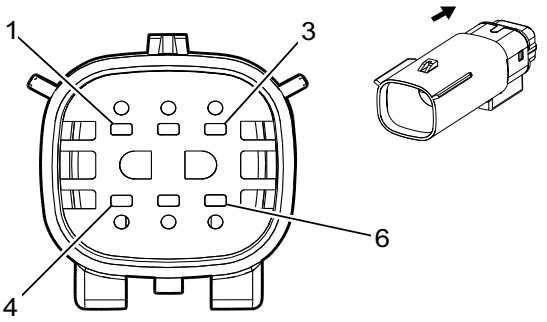
X119 Engine Harness to Body Harness (NQ6+LGZ)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	WH/RD	7477	I	—	Rotary Position Sensor 5V Reference	1	0.5	WH/RD	7477	II	—
2	0.5	WH/GN	7479	I	—	Rotary Position Sensor Signal	2	0.5	WH/GN	7479	II	—
3	0.5	YE/BK	7478	I	—	Rotary Position Sensor Low Reference	3	0.5	YE/BK	7478	II	—
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—

X120 Forward Lamp Harness to Right Front Lamp Harness



1986157



1986159

Connector Part Information

Harness Type: Forward Lamp
OEM Connector: 33472-0606
Service Connector: 13578533
Description: 6-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Right Front Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M

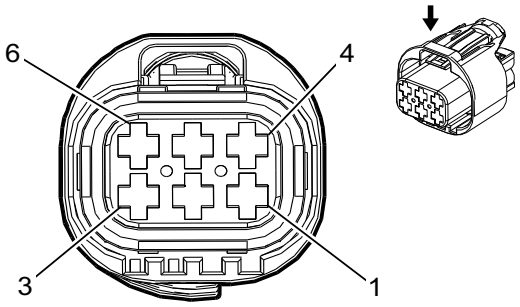
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-2A (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

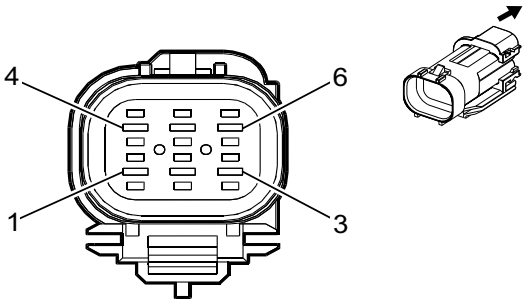
X120 Forward Lamp Harness to Right Front Lamp Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	BK	1250	I	—	Ground	1	1.5	BK	1250	III	—
2	1.5	YE	312	I	—	Right Headlamp Low Beam Control	2	1.5	BK	312	III	—
3	0.75	WH	311	II	—	Right Headlamp High Beam Control	3	0.75	BK	311	III	—
4	0.75	GY/BN	309	II	—	Right Park Lamp Control	4	0.75	BK	309	III	—
5	0.75	GN/VT	1315	II	—	Right Front Turn Signal Lamp Control	5	0.75	YE	1315	III	—
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

X122 Body Harness to Chassis Harness (LWN)



2042938



2042939

Connector Part Information

Harness Type: Body

OEM Connector: 1452327-1

Service Connector: 19332889

Description: 6-Way F 2.8 Junior Power Timer Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis

OEM Connector: 1452324-1

Service Connector: 93185233

Description: 6-Way M 2.8 Series, Sealed (BK)

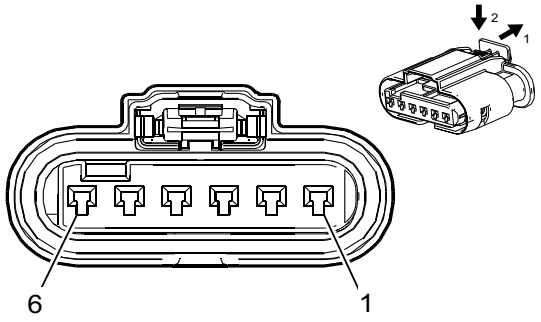
Terminal Part Information

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

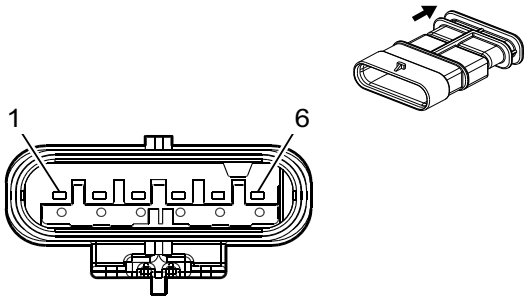
X122 Body Harness to Chassis Harness (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1	GY/BK	7253	I	—	Rear Differential Lock Actuator Low Control	1	1	GY/BK	7253	II	—
2	1	VT/BN	7258	I	—	Rear Differential Lock Actuator Supply Voltage	2	1	VT/BN	7258	II	—
3	—	—	—	—	—	Not Occupied	3	—	—	—	—	—
4	1	WH/BK	7254	I	—	Front Differential Lock Actuator Low Control	4	1	WH/BK	7254	II	—
5	1	VT/WH	7256	I	—	Front Differential Lock Actuator Supply Voltage	5	1	VT/WH	7256	II	—
6	0.75	WH/VT	1430	I	—	Exterior Courtesy Lamp Control	6	0.75	WH/VT	1430	II	—

X123 Chassis Harness to Body Harness (LGZ)



3960142



4561098

Connector Part Information

Harness Type: Chassis
OEM Connector: 34900-6140
Service Connector: 19369739
Description: 6-Way F 1.2 MCON-LL Series, Sealed (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 34899-6020
Service Connector: 19355983
Description: 6-Way M 1.2 MCON Series, Sealed (BK)

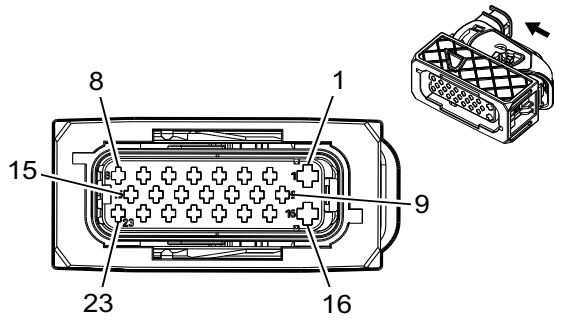
Terminal Part Information

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
II	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

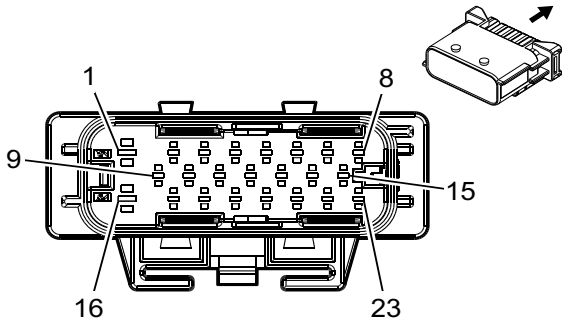
X123 Chassis Harness to Body Harness (LGZ)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	BU/RD	7632	I	—	Integrated Trailer Brake Controller Switch 5V Reference	1	0.5	BU/RD	7632	II	—
2	0.5	BK/BN	7631	I	—	Integrated Trailer Brake Controller Switch Low Reference	2	0.5	BK/BN	7631	II	—
3	0.5	GN/BK	7633	I	—	Integrated Trailer Brake Controller User Gain Signal	3	0.5	GN/BK	7633	II	—
4	0.5	BN	7634	I	—	Integrated Trailer Brake Controller Redundant Manual Apply Signal	4	0.5	BN	7634	II	—
5	0.5	VT/YE	5985	I	—	Accessory Wakeup Serial Data	5	0.5	VT/YE	5985	II	—
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

X124 Body Harness to Chassis Harness



2906942



2906943

Connector Part Information

Harness Type: Body
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	13575429	J-35616-14 (GN)	J-38125-560	60000641	AFL 21	2	5
II	13576369	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
III	13576369	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13580830	J-35616-4A (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575380	J-35616-3 (GY)	J-38125-217	Not Available	Not Available	Not Available	Not Available
VI	13575380	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
VII	13581368	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
VIII	19331731	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available

X124 Body Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1	VT/BN	7258	IV	—	Rear Differential Lock Actuator Supply Voltage	1	1	VT/BN	7258	VII	—
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
3	0.5	BU/WH	7120	II	—	Rear Axle Differential Lock Control	3	0.5	BU/WH	7120	VI	—

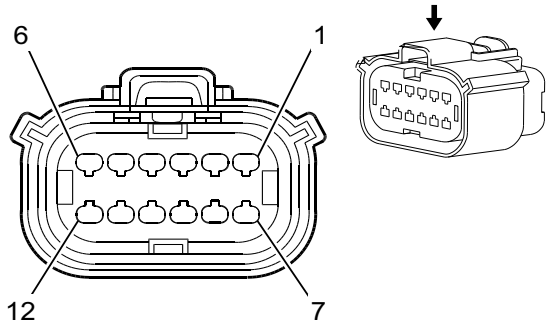
X124 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
4	0.5	VT/ BK	7121	III	—	Rear Axle Differential Lock Low Reference	4	0.5	VT/ BK	7121	VI	—
5	—	—	—	—	—	Not Occupied	5	—	—	—	—	—
6	0.5	BU/ RD	7632	II	—	Integrated Trailer Brake Controller Switch 5V Reference	6	0.5	BU/ RD	7632	VI	—
7	0.5	GN/ BK	7633	II	—	Integrated Trailer Brake Controller User Gain Signal	7	0.5	GN/ BK	7633	VI	—
8	0.5	BN	7634	II	—	Integrated Trailer Brake Controller Redundant Manual Apply Signal	8	0.5	BN	7634	VI	—
9	1	GY/ BK	7253	I	—	Rear Differential Lock Actuator Low Control	9	1	GY/ BK	7253	VIII	—
10	—	—	—	—	—	Not Occupied	10	—	—	—	—	—
11	0.5	BU/ BK	7116	II	—	Front Axle Differential Lock Control	11	0.5	BU/ BK	7116	VI	—
12	0.5	GN/ BK	7118	II	—	Front Axle Differential Lock Low Reference Front Axle Differential Lock Low Reference	12	0.5 0.5	GN/ BK GN/ BK	7118 7118	VI V	LWN LGZ
13	0.5	YE/ GN	7122	II	—	Axle Differential Lock Switch Signal	13	0.5	YE/ GN	7122	VI	—
14	0.5	VT/ YE	5985	II	—	Accessory Wakeup Serial Data	14	0.5	VT/ YE	5985	VI	—
15	0.5	BK/ BN	7631	II	—	Integrated Trailer Brake Controller Switch Low Reference	15	0.5	BK/ BN	7631	VI	—
16	1	VT/ WH	7256	IV	—	Front Differential Lock Actuator Supply Voltage	16	1	VT/ WH	7256	VII	—
17	1	WH/ BK	7254	I	—	Front Differential Lock Actuator Low Control	17	1	WH/ BK	7254	VIII	—

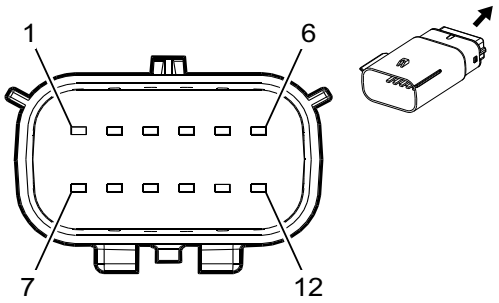
X124 Body Harness to Chassis Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
18 - 20	—	—	—	—	—	Not Occupied	18 - 20	—	—	—	—	—
21	0.5	BK/ YE	7259	II	—	Axle Differential Lock Switch Low Reference	21	0.5	BK/ YE	7259	VI	—
22	0.5	YE	7115	II	—	Rear Axle Differential Lock Indicator Control	22	0.5	YE	7115	VI	—
23	0.5	VT/ GY	7117	II	—	Front Axle Differential Lock Indicator Control	23	0.5	VT/ GY	7117	VI	—

X160 Engine Harness to Fuel Injector Harness (LCV)



1825165



2687960

Connector Part Information

Harness Type: Engine
OEM Connector: 33472-1216
Service Connector: 19150019
Description: 12-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Fuel Injector
OEM Connector: Not Available
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	13575808	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	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

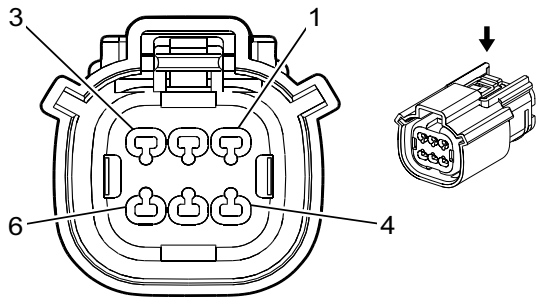
X160 Engine Harness to Fuel Injector Harness (LCV)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BN	4801	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	1	0.75	BN	4801	III	—
2	0.75	BU	4802	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	2	0.75	BU	4802	III	—
3	0.75	GN	4803	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	3	0.75	GN	4803	III	—
4	0.75	GY/BU	4804	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	4	0.75	GY/BU	4804	III	—
5	0.5	BK/GN	2919	II	—	Fuel Rail Pressure Sensor Low Reference	5	0.5	BK/GN	2919	III	—

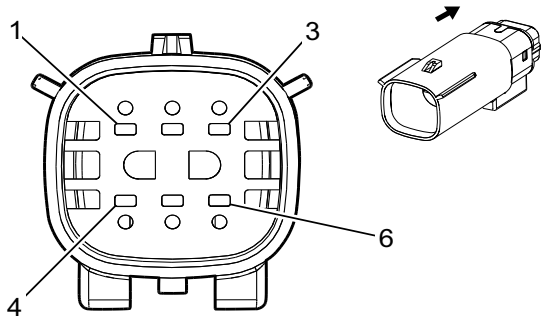
X160 Engine Harness to Fuel Injector Harness (LCV) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—
7	0.75	BN/WH	4901	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	7	0.75	BN/WH	4901	III	—
8	0.75	BU/GY	4902	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	8	0.75	BU/GY	4902	III	—
9	0.75	GN/GY	4903	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	9	0.75	GN/GY	4903	III	—
10	0.75	BU/WH	4904	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	10	0.75	BU/WH	4904	III	—
11	0.5	BN/RD	2917	II	—	Fuel Rail Pressure Sensor 5V Reference	11	0.5	BN/RD	2917	III	—
12	0.5	BU/WH	2918	II	—	Fuel Rail Pressure Sensor Signal	12	0.5	BU/WH	2918	III	—

X160 Engine Harness to Fuel Injector Harness (LGZ)



1986157



1986159

Connector Part Information

Harness Type: Engine
OEM Connector: 33472-0606
Service Connector: 13578533
Description: 6-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Fuel Injector
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-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

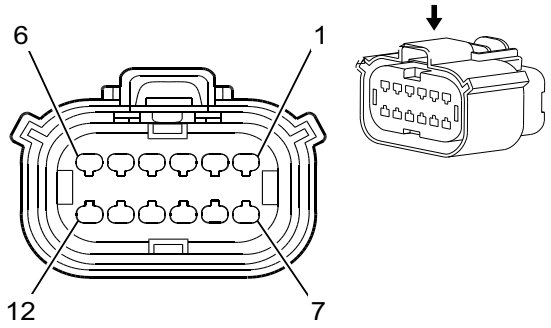
X160 Engine Harness to Fuel Injector Harness (LGZ)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	BN	4801	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	1	0.75	BN	4801	II	—
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	GN	4803	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	3	0.75	GN	4803	II	—
4	0.75	GN/GY	4903	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	4	0.75	GN/GY	4903	II	—
5	0.75	WH/GN	4805	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	5	0.75	WH/GN	4805	II	—

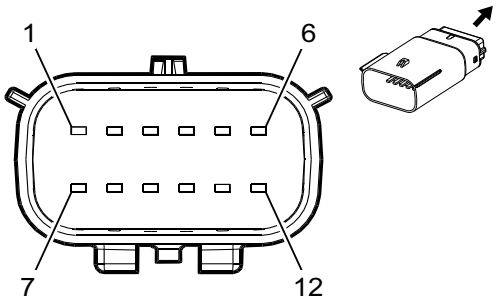
X160 Engine Harness to Fuel Injector Harness (LGZ) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.75	GN/WH	4905	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	6	0.75	GN/WH	4905	II	—

X161 Engine Harness to Fuel Injector - Even Harness



1825165



2687960

Connector Part Information

Harness Type: Engine
OEM Connector: 33472-1236
Service Connector: 19178148
Description: 12-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Fuel Injector - Even
OEM Connector: Not Available
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	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

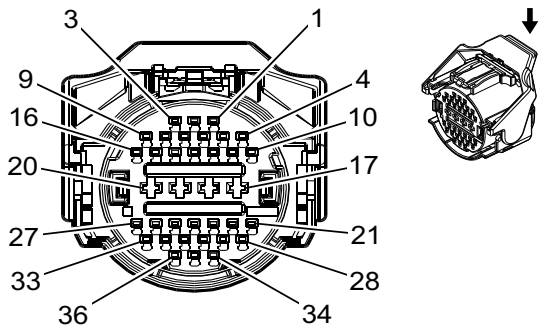
X161 Engine Harness to Fuel Injector - Even Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.75	BU	4802	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	2	0.75	BU	4802	II	—
3	0.75	GY/BU	4804	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	3	0.75	GY/BU	4804	II	—
4	0.75	VT/GN	4806	I	—	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	4	0.75	VT/GN	4806	II	—
5	0.5	BK/GN	2919	I	—	Fuel Rail Pressure Sensor Low Reference	5	0.5	BK/GN	2919	II	—
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

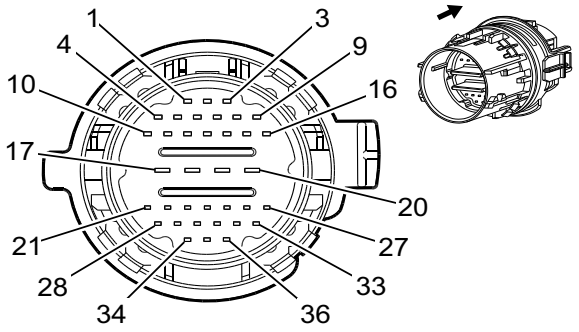
X161 Engine Harness to Fuel Injector - Even Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.75	BU/ GY	4902	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	8	0.75	BU/ GY	4902	II	—
9	0.75	BU/ WH	4904	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	9	0.75	BU/ WH	4904	II	—
10	0.75	VT/ GY	4906	I	—	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	10	0.75	VT/ GY	4906	II	—
11	0.5	BN/ RD	2917	I	—	Fuel Rail Pressure Sensor 5V Reference	11	0.5	BN/ RD	2917	II	—
12	0.5	BU/ WH	2918	I	—	Fuel Rail Pressure Sensor Signal	12	0.5	BU/ WH	2918	II	—

X175 Engine Harness to Transmission Case Harness (M5T)



3621473



3977661

Connector Part Information

Harness Type: Engine

OEM Connector: 2138314-7

Service Connector: 19332681

Description: 36-Way F 1.2 MCON-CB, 2.8 MCP Series, Sealed (BK)

Connector Part Information

Harness Type: Transmission Case

OEM Connector: 2138338-5

Service Connector: Service by Harness - See Part Catalog

Description: 36-Way M 1.2 MCON, 2.8 MQP 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	19119772	J-35616-35 (VT)	J-38125-557	Not Available	Not Available	Not Available	Not Available
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 Case Harness (M5T)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	GN/WH	6380	II	—	TCC On/Off Solenoid A Control	1	0.5	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/GN	6403	II	—	Clutch D Control	4	0.5	GY/GN	6403	III	—
5	0.5	BN	6400	II	—	Clutch A Control	5	0.5	BN	6400	III	—
6	0.5	BU	6401	II	—	Clutch B Control	6	0.5	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	—

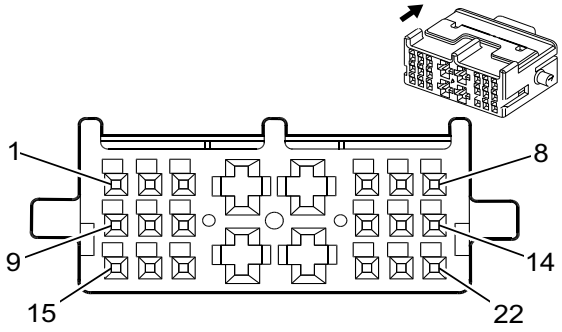
X175 Engine Harness to Transmission Case Harness (M5T) (cont'd)

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/ BU	4507	II	—	Transmission Clutch H Control	14	0.5	WH/ BU	4507	III	—
15 - 17	—	—	—	—	—	Not Occupied	15 - 17	—	—	—	—	—
18	0.75	GN/ GY	6387	I	—	Transmission High Side Driver 1 Signal Driver	18	2.5	GN/ GY	6387	III	—
19	0.75	GY/ BN	6388	II	—	Transmission High Side Driver 2 Signal	19	2.5	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/ BU	6358	II	—	Output Speed Signal	24	0.5	GY/ BU	6358	III	—
25	0.5	YE/ GN	4170	II	—	Transmission Position Sensor B 9V Reference	25	0.5	YE/ GN	4170	III	—
26	0.5	GN/ YE	6353	II	—	Input Speed Signal	26	0.5	GN/ YE	6353	III	—
27	0.5	YE/ BU	4171	II	—	Transmission Position Sensor A 9V Reference	27	0.5	YE/ BU	4171	III	—
28	0.5	GY/ BN	5982	II	—	PRNDL B Signal	28	0.5	GY/ BN	5982	III	—
29	0.5	YE/ BU	4171	II	—	Transmission Position Sensor A 9V Reference	29	0.5	YE/ 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/ GN	4170	II	—	Transmission Position Sensor B 9V Reference	31	0.5	YE/ GN	4170	III	—

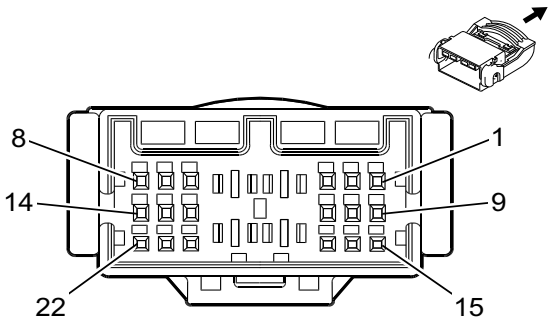
X175 Engine Harness to Transmission Case Harness (M5T) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
32	0.5	GN/VT	4510	II	—	Transmission Intermediate Speed Signal	32	0.5	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	—	—	—	—	—

X176 Transmission Case Harness to Transmission Control Harness (M5T)



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	J-35616-35 (VT)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-64B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required
IV	Not Required	J-35616-65B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

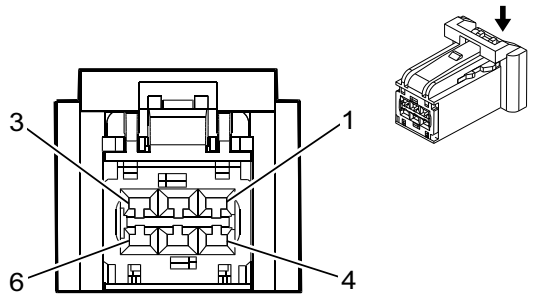
X176 Transmission Case Harness to Transmission Control Harness (M5T)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	GN/WH	6380	II	—	TCC On/Off Solenoid A Control	1	0.5	GN/WH	6380	IV	—
2	0.5	VT/WH	5981	II	—	PRNDL A Signal	2	0.5	VT/WH	5981	IV	—
3	0.5	GY/BN	5982	II	—	PRNDL B Signal	3	0.5	GY/BN	5982	IV	—
4	2.5	GN/GY	6387	I	—	Transmission High Side Driver 1 Signal Driver	4	2.5	GN/GY	6387	III	—
5	0.5	YE/BU	4171	I	—	Transmission Position Sensor A 9V Reference	5	0.5	YE/BU	4171	III	—
6	0.5	GY/YE	4169	II	—	PRNDL S Signal	6	0.5	GY/YE	4169	IV	—
7	0.5	WH/BU	4507	II	—	Transmission Clutch H Control	7	0.5	WH/BU	4507	IV	—

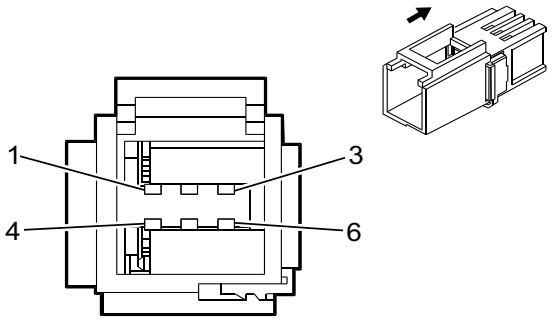
X176 Transmission Case Harness to Transmission Control Harness (M5T) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	GY/ GN	6403	II	—	Clutch D Control	8	0.5	GY/ GN	6403	IV	—
9	0.5	WH	4508	II	—	Transmission Clutch G Control	9	0.5	WH	4508	IV	—
10	0.5	YE/ BN	6210	II	—	TCC On/Off Solenoid B Control	10	0.5	YE/ BN	6210	IV	—
11	0.5	WH/ BK	5983	II	—	PRNDL C Signal	11	0.5	WH/ BK	5983	IV	—
12	0.5	WH/ GY	1786	II	—	Transmission Park/Neutral Signal 1	12	0.5	WH/ GY	1786	IV	—
13	0.5	GY	6402	II	—	Clutch C Control	13	0.5	GY	6402	IV	—
14	0.5	YE/ BN	6404	II	—	Clutch E Control	14	0.5	YE/ BN	6404	IV	—
15	0.5	BN/ WH	585	II	—	Transmission Oil Tempera-ture Sensor Signal	15	0.5	BK/ WH	585	IV	—
16	0.5	BK/ BN	586	II	—	Transmission Oil Tempera-ture Sensor Low Refer-ence	16	0.5	BK/ BN	586	IV	—
17	0.5	GY/ WH	4168	II	—	PRNDL P Signal	17	0.5	GY/ WH	4168	IV	—
18	2.5	GY/ BN	6388	I	—	Transmission High Side Driver 2 Signal	18	2.5	GY/ BN	6388	III	—
19	0.5	YE/ GN	4170	I	—	Transmission Position Sensor B 9V Reference	19	0.5	YE/ GN	4170	III	—
20	0.5	BK/ GY	3927	II	—	IMS Mode Switch Low Reference	20	0.5	BK/ GY	3927	IV	—
21	0.5	BN	6400	II	—	Clutch A Control	21	0.5	BN	6400	IV	—
22	0.5	BU	6401	II	—	Clutch B Control	22	0.5	BU	6401	IV	—

X177 Transmission Case Harness to Speed Sensor Assembly Harness (M5T)



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)

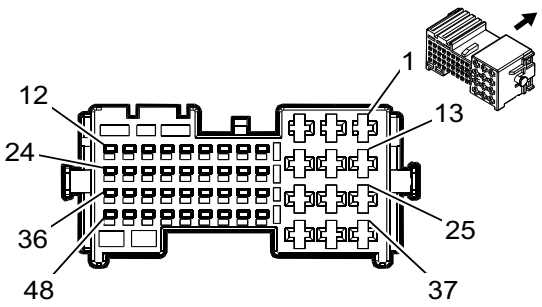
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-16 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	Not Required	J-35616-65B (LT BU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

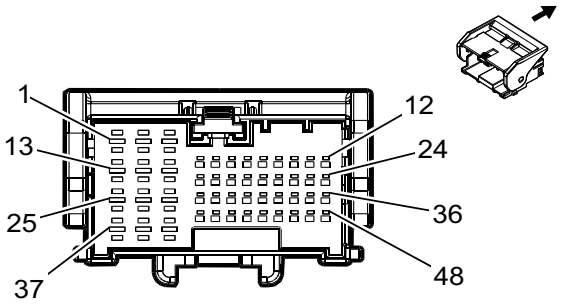
X177 Transmission Case Harness to Speed Sensor Assembly Harness (M5T)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	GY/BU	6358	I	—	Output Speed Signal	1	0.5	GY/BU	6358	II	—
2	0.5	YE/GN	4170	I	—	Transmission Position Sensor B 9V Reference	2	0.5	RD/GN	4170	II	—
3	0.5	YE/GN	4170	I	—	Transmission Position Sensor B 9V Reference	3	0.5	YE/GN	4170	II	—
4	0.5	YE/BU	4171	I	—	Transmission Position Sensor A 9V Reference	4	0.5	YE/BU	4171	II	—
5	0.5	GN/YE	6353	I	—	Input Speed Signal	5	0.5	GN/YE	6353	II	—
6	0.5	GN/VT	4510	I	—	Transmission Intermediate Speed Signal	6	0.5	BK/VT	4510	II	—

X200 Body Harness to Instrument Panel Harness



3277913



3277901

Connector Part Information

Harness Type: Body
OEM Connector: 2109452-2
Service Connector: 19329739
Description: 48-Way F 1.2 MCON, 2.8 MCP Series (BK)

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 5-2109455-2
Service Connector: 19329740
Description: 48-Way M 1.2 MCON, 2.8 MCP 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	19119592	J-35616-4A (PU)	J-38125-557	Not Available	Not Available	Not Available	Not Available
II	19329758	J-35616-16 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
III	13575529	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IV	13575574	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	19329749	J-35616-13 (BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
VI	19329749	J-35616-17 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

X200 Body Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/VT	542	I	—	Battery Positive Voltage	1	2.5	RD/VT	542	IV	—
2	—	—	—	—	—	Not Occupied	2	—	—	—	—	—
3	0.5	GN/BN	507	I	—	Wait To Start Indicator Control	3	0.35	GN/BN	507	III	—
4	0.5	BU/YE	6105	II	—	High Speed GMLAN Serial Data (+) 2	4	0.5	Bare	6105	V	—
5	0.5	WH	6106	II	—	High Speed GMLAN Serial Data (-) 2	5	0.5	WH	6106	V	—

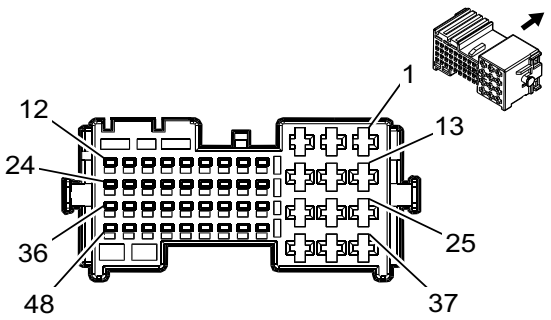
X200 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.5	BU/ BN	7573	II	—	Electric Variable Displace-ment Supply	6	0.5	BU/ BN	7573	V	—
7	0.5	BU/ YE	7574	II	—	Electric Variable Displace-ment Control	7	0.5	BU/ YE	7574	V	—
8 - 9	—	—	—	—	—	Not Occupied	8 - 9	—	—	—	—	—
10	0.5	RD/ GN	4440	II	—	Battery Positive Voltage	10	0.5	RD/ GN	4440	V	—
11 - 13	—	—	—	—	—	Not Occupied	11 - 13	—	—	—	—	—
14	1	BU	201	I	—	Left Front Speaker Control (+) 1	14	0.75 1	BU BU	201 201	IV IV	UQ3+IOB UQ3-IOB
15	1	BN/ BU	118	I	—	Left Front Speaker Signal (-) 1	15	0.75 1	BN/ BU BN/ BU	118 118	IV IV	UQ3+IOB UQ3-IOB
16 - 17	—	—	—	—	—	Not Occupied	16 - 17	—	—	—	—	—
18	0.5	GY	158	II	—	Cargo Lamp Switch Signal	18	0.35	GY	158	V	—
19	0.5	BN/ WH	1429	II	—	Standing Lamp Relay Control	19	0.5	BN/ WH	1429	V	—
20	0.5 0.35	GN/ WH GN/ WH	24 24	II II	IOB -IOB	Backup Lamp Control Backup Lamp Control	20	0.35	GN/ WH	24	VI	—
21	0.35	WH	6816	II	—	Indicator Dimming Control	21	0.35	WH	6816	V	—
22	0.5	YE	6817	II	—	LED Backlight Dimming Control	22	0.5	YE	6817	V	—
23	0.35	YE/ BN	3265	II	—	Child Security Lock Switch Signal	23	0.35	YE/ BN	3265	V	—
24	0.35	GY	5697	II	—	Child Lockout Indicator Control	24	0.35	GY	5697	V	—
25	0.35	GY/ VT	755	I	—	RAP Relay Coil Control	25	0.35	GY/ VT	755	III	—
26	1	GN/ BK	116	I	—	Left Rear Speaker Signal (-)	26	0.75 1	GN/ BK GN/ BK	116 116	IV IV	UQ3+IOB UQA
27	1	GN	199	I	—	Left Rear Speaker Control (+)	27	0.75 1	GN GN	199 199	IV IV	UQ3+IOB UQA

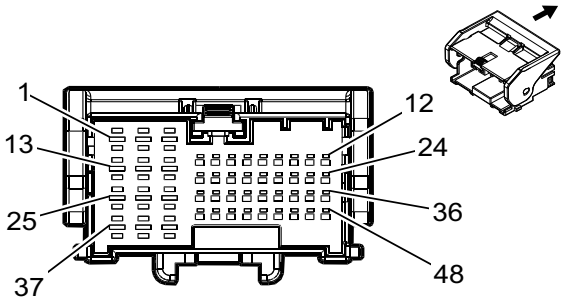
X200 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
28 - 29	—	—	—	—	—	Not Occupied	28 - 29	—	—	—	—	—
30	0.5	BN/ WH	419	II	—	Check Engine Indicator Control	30	0.35	BN/ WH	419	V	—
31	0.35	BN/ YE	780	II	—	Driver Door Lock Switch Lock Signal	31	0.35	BN/ YE	780	V	—
32	0.35	BN/ WH	781	II	—	Driver Door Lock Switch Unlock Signal	32	0.35	BN/ WH	781	V	—
33	0.5	WH	5359	II	—	Brake Apply Sensor Control	33	0.35	WH	5359	V	—
34	0.5	BU/ YE	5361	II	—	Brake Apply Sensor Signal	34	0.35	BU/ YE	5361	V	—
35	0.5	BK/ BN	5360	II	—	Brake Apply Sensor Low Reference	35	0.35	BK/ BN	5360	V	—
36	0.5	Bare	6974	II	—	Camera Low Reference	36	0.35	Bare	6974	V	—
37	2.5	RD/ GN	242	I	—	Battery Positive Voltage	37	2.5	RD/ GN	242	IV	—
38 - 39	—	—	—	—	—	Not Occupied	38 - 39	—	—	—	—	—
40	0.35	VT	185	II	—	Low Washer Fluid Indicator Control	40	0.35	VT	185	V	—
41	—	—	—	—	—	Not Occupied	41	—	—	—	—	—
42	0.5	BK/ WH	2251	II	—	Signal Ground	42	0.5	BK/ WH	2251	V	—
43	0.5	WH/ BU	5986	II	—	Serial Data Communica-tion Enable	43	0.5	WH/ BU	5986	V	—
44	—	—	—	—	—	Not Occupied	44	—	—	—	—	—
45	0.5	BN/ VT	193	II	—	Rear Defog Relay Control	45	0.35	BN/ VT	193	V	—
46	0.5	GN/ GY	6135	II	—	Local Inter-connect Network Serial Data Bus 4	46	0.5	GN/ GY	6135	V	—
47	0.5	GY/ YE	6972	II	—	Camera Signal 2 +	47	0.35	GY/ YE	6972	V	—
48	0.5	WH/ BU	6973	II	—	Camera Signal 2	48	0.35	WH/ BU	6973	V	—

X202 Body Harness to Instrument Panel Harness



3924402



3924404

Connector Part Information

Harness Type: Body
OEM Connector: 1-2109452-3
Service Connector: 19329737
Description: 48-Way F 1.2 MCON, 2.8 MCP Series (GY)

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 1-2109455-3
Service Connector: 19329738
Description: 48-Way M 1.2 MCON, 2.8 MCP Series

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	19119592	J-35616-4A (PU)	J-38125-557	Not Available	Not Available	Not Available	Not Available
II	19329758	J-35616-16 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
III	13575574	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IV	19329749	J-35616-13 (BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

X202 Body Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1 - 3	—	—	—	—	—	Not Occupied	1 - 3	—	—	—	—	—
4	0.5	RD/ GY	2140	I	—	Battery Positive Voltage	4	0.75	RD/ GY	2140	IV	—
5	0.5	VT	4601	I	—	Retained Accessory Power Fused Control	5	0.5	VT	4601	IV	—
6	0.35	RD/ YE	3040	II	—	Battery Positive Voltage	6	0.35	RD/ YE	3040	IV	—
7	0.75	RD/ BN	2240	II	—	Battery Positive Voltage	7	0.75	RD/ BN	2240	IV	—
8	0.35	VT	801	II	—	Retained Accessory Power Fuse Control	8	0.35	VT	801	IV	—

X202 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	0.5	RD/ GY	2840	I	—	Battery Positive Voltage	9	0.5	RD/ GY	2840	IV	—
10	0.5	VT/ BN	300	I	—	Run Ignition 3 Voltage	10	0.5	VT/ BN	300	IV	—
11 - 13	—	—	—	—	—	Not Occupied	11 - 13	—	—	—	—	—
14	2.5	BU	47	I	—	Trailer Auxiliary Control	14	2.5	BU	47	III	—
15	—	—	—	—	—	Not Occupied	15	—	—	—	—	—
16	0.35	GY/ WH	3272	II	—	Remote Function Actuator Control	16	0.35	GY/ WH	3272	IV	—
17	0.35	YE/ GN	3274	II	—	Remote Function Actuator Transmit Signal	17	0.35	YE/ GN	3274	IV	—
18	0.35	BU/ WH	3275	II	—	Remote Function Actuator Receive Signal	18	0.35	BU/ WH	3275	IV	—
19	0.35	GY	3273	II	—	Remote Function Actuator Low Reference	19	0.35	GY	3273	IV	—
20	0.35	GY/ GN	328	II	—	Interior Lamp Defeat Switch Signal	20	0.35	GY/ GN	328	IV	—
21	0.5	GY	157	I	—	Interior Lamp Control	21	0.5	GY	157	IV	—
22	0.5	YE	6817	I	—	LED Backlight Dimming Control	22	0.5	YE	6817	IV	—
23	0.5 0.5	VT/ GY VT/ GY	7117 7117	I II	LGZ LWN	Front Axle Differential Lock Indicator Control Front Axle Differential Lock Indicator Control	23	0.5	VT/ GY	7117	IV	—
24	0.5	YE	7115	I	—	Rear Axle Differential Lock Indicator Control	24	0.5	YE	7115	IV	—
25	2.5	RD/ YE	2340	I	—	Battery Positive Voltage	25	2.5	RD/ YE	2340	III	—
26	—	—	—	—	—	Not Occupied	26	—	—	—	—	—

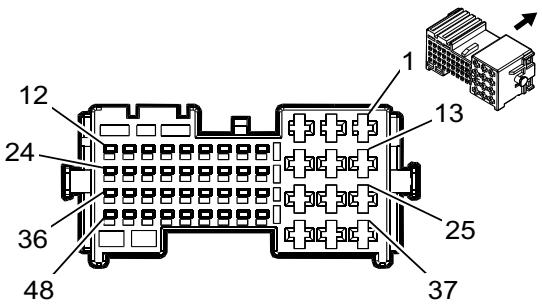
X202 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
27	0.5 0.5	YE/GN BK/YE	7122 7259	I I	LGZ LWN	Axle Differential Lock Switch Signal Axle Differential Lock Switch Low Reference	27	0.5 0.5	YE/GN BK/YE	7122 7259	III III	LGZ LWN
28	0.35	GN/BK	1563	II	—	2 HI Indicator Control	28	0.35	GN/BK	1563	IV	—
29	0.35	GY/GN	1561	II	—	AWD Indicator Control	29	0.35	GY/GN	1561	IV	—
30	0.35	BN/BK	1566	II	—	4 HI Indicator Control	30	0.35	BN/BK	1566	IV	—
31	0.35	VT/WH	1565	II	—	4 LO Indicator Control	31	0.35	VT/WH	1565	IV	—
32	0.35	BN	1560	II	—	Neutral Indicator Control	32	0.35	BN	1560	IV	—
33	0.35	GY/RD	6029	II	—	Four Wheel Drive Mode Switch 5V Reference	33	0.35	GY/RD	6029	IV	—
34	0.35	BU/YE	1693	II	—	Four Wheel Drive Switch Signal	34	0.35	BU/YE	1693	IV	—
35	0.5	GN/BK	7633	I	—	Integrated Trailer Brake Controller User Gain Signal	35	0.5	GN/BK	7633	IV	—
36	0.5	YE	7635	I	—	Integrated Trailer Brake Controller Manual Apply Signal	36	0.5	YE	7635	IV	—
37	0.5	BU/RD	7632	I	—	Integrated Trailer Brake Controller Switch 5V Reference	37	0.5	BU/RD	7632	III	—
38	0.5	BN	7634	I	—	Integrated Trailer Brake Controller Redundant Manual Apply Signal	38	0.5	BN	7634	III	—
39	0.5	BK/BN	7631	I	—	Integrated Trailer Brake Controller Switch Low Reference	39	0.5	BK/BN	7631	III	—
40	0.5	YE/GN	7122	I	—	Axle Differential Lock Switch Signal	40	0.5	YE/GN	7122	IV	—
41	0.5	WH/VT	5905	I	—	Key Capture/Column Lock Shift Position Signal	41	0.5	WH/VT	5905	IV	—

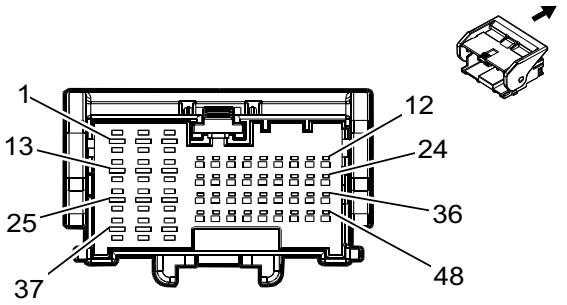
X202 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
42	0.5	GN/ BU	6133	I	—	Local Inter-connect Network Serial Data Bus 2	42	0.5	GN/ BU	6133	IV	—
43	0.5	WH/ BU	3691	I	—	Trailer Brake Apply Signal	43	0.5	WH/ BU	3691	IV	—
44	0.5	VT/ BK	7553	I	—	Park Lock Solenoid Control	44	0.5	VT/ BK	7553	IV	—
45 - 48	—	—	—	—	—	Not Occupied	45 - 48	—	—	—	—	—

X203 Body Harness to Instrument Panel Harness



3277913



3277901

Connector Part Information

Harness Type: Body
OEM Connector: 2109452-2
Service Connector: 19329739
Description: 48-Way F 1.2 MCON, 2.8 MCP Series (BK)

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 5-2109455-2
Service Connector: 19329740
Description: 48-Way M 1.2 MCON, 2.8 MCP 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	19119592	J-35616-4A (PU)	J-38125-557	Not Available	Not Available	Not Available	Not Available
II	19329758	J-35616-16 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
III	13575574	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available
IV	19329749	J-35616-13 (BU)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
V	19329749	J-35616-17 (LT GN)	J-38125-12A	Not Available	Not Available	Not Available	Not Available
VI	19329749	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available

X203 Body Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/YE	3740	I	—	Battery Positive Voltage	1	2.5	RD/YE	3740	III	—
2	1	YE/BK	117	I	—	Right Front Speaker Signal (-) 1	2	0.75 1	YE/BK YE/BK	117 117	III III	UQ3-IOB UQ3+IOB
3	1	YE	200	I	—	Right Front Speaker Control (+) 1	3	0.75 1	YE YE	200 200	III III	UQ3-IOB UQ3+IOB
4	0.35	YE/RD	597	II	—	5V Reference	4	0.35	YE/RD	597	IV	—
5	0.35	BK/BU	7566	II	—	Humidity/ Windscreen Temp Sensor Low Reference	5	0.35	BK/BU	7566	IV	—

X203 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.35	GY/ GN	7565	II	—	Windscreen Temp Sensor Signal	6	0.35	GY/ GN	7565	IV	—
7	0.35	GY/ BU	7564	II	—	Humidity Sensor Signal	7	0.35	GY/ BU	7564	IV	—
8	0.35	YE/ BU	3197	II	—	Humidity Temperature Sensor Signal	8	0.35	YE/ BU	3197	IV	—
9	0.35	YE	6817	II	—	LED Backlight Dimming Control	9	0.35	YE	6817	IV	—
10	0.35	BN	6136	II	—	Control	10	0.35	BN	6136	IV	—
11	0.5	RD/ BU	540	II	—	Battery Positive Voltage	11	0.5	RD/ BU	540	IV	—
12	0.5	VT/ WH	1139	II	—	Run/Crank Ignition 1 Voltage	12	0.5	VT/ WH	1139	IV	—
13	2.5	RD/ VT	4040	I	—	Battery Positive Voltage	13	2.5	RD/ VT	4040	III	—
14	1	BU/ BK	115	I	—	Right Rear Speaker Signal (-)	14	0.75 1	BU/ BK BU/ BK	115 115	III III	UQ3-IOB UQ3+IOB
15	1	WH	46	I	—	Right Rear Speaker Control (+)	15	0.75 1	WH WH	46 46	III III	UQ3-IOB UQ3+IOB
16	0.35	VT/ WH	5234	II	—	Passenger Seat Belt Indicator Control	16	0.35	VT/ WH	5234	IV	—
17	0.35	BU	2307	II	—	Passenger Air Bag On Indicator Control	17	0.35	BU	2307	IV	—
18	0.35	GN	2308	II	—	Passenger Air Bag Off Indicator Control	18	0.35	GN	2308	IV	—
19	0.5	Bare	1792	II	—	Low Reference	19	0.5	Bare	1792	IV	—
20	0.35 0.35	BK/ BN BK/ GY	654 5152	II II	IOB-UE1 UE1&IO5/ IO6	Cellular Telephone Microphone Low Reference Voice Recognition Audio Low Reference	20	0.35 0.35	BK/ GY BK/ GY	654 5152	IV IV	IOB-UE1 UE1&IO5/ IO6
21	0.35 0.35	BU GY/ YE	655 5149	II II	IOB-UE1 UE1&IO5/ IO6	Cellular Telephone Microphone Signal Voice Recognition Audio Signal	21	0.35 0.35	BU GY/ YE	655 5149	IV IV	IOB-UE1 IOB

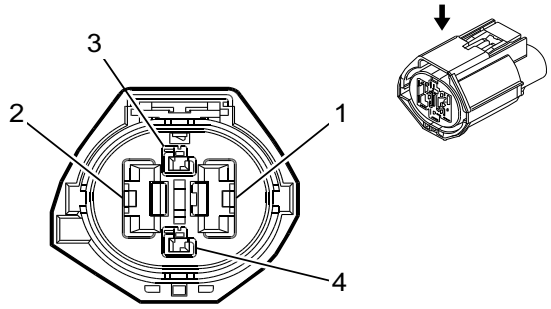
X203 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
22	—	—	—	—	—	Not Occupied	22	—	—	—	—	—
23	0.35	GY/WH	3153	II	—	Lane Departure Warning Disable Switch Signal	23	0.35	GY/WH	3153	IV	—
24	0.35	WH	3152	II	—	Lane Departure Warning Indicator Control	24	0.35	WH	3152	IV	—
25	0.35	RD/WH	6440	I	—	Battery Positive Voltage	25	0.35	RD/WH	6440	VI	—
26	1.5	VT	2101	I	—	Retained Accessory Power Fuse Ignition	26	1.5	VT	2101	III	—
27	2.5	RD/GN	2440	I	—	Battery Positive Voltage	27	2.5	RD/GN	2440	III	—
28	0.35	Bare	514	II	—	Low Reference	28	0.35	Bare	514	IV	—
29	0.35	YE	658	II	—	Cellular Telephone Voice Signal	29	0.35	YE	658	IV	—
30	0.35	BK/YE	659	II	—	Cellular Telephone Voice Low Reference	30	0.35	BK/YE	659	IV	—
31	0.35	BU/GN	1304	II	—	High Speed GMLAN Serial Data (+)9	31	0.35	BU/GN	1304	IV	—
32	0.35	WH/GN	1305	II	—	High Speed GMLAN Serial Data (-)9	32	0.35	WH/GN	1305	IV	—
33	0.5	GY/GN	1102	II	—	Low Speed GMLAN Serial Data #2	33	0.5	GY/GN	1102	IV	—
34	—	—	—	—	—	Not Occupied	34	—	—	—	—	—
35	1	RD/VT	340	II	—	Battery Positive Voltage	35	1	RD/VT	340	IV	—
36	0.5	VT/BK	1639	II	—	Run/Crank Ignition 1 Voltage Run/Crank Ignition 1 Voltage	36	0.5 0.5	VT/BK VT/BK	1639 1639	IV V	-UEU UEU
37	1.5	VT	1701	I	—	Retained Accessory Power Ignition	37	1.5	VT	1701	III	—
38	0.5	RD/VT	340	I	—	Battery Positive Voltage	38	0.5	RD/VT	340	III	—

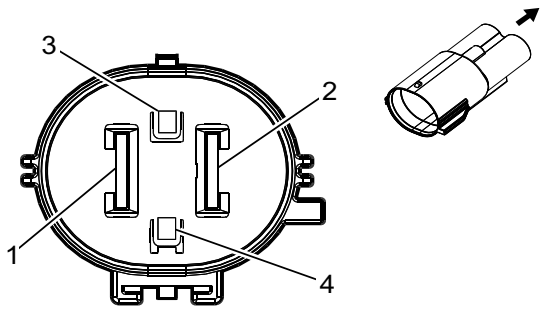
X203 Body Harness to Instrument Panel Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
39	0.75	BK	2050	I	—	Ground	39	0.75	BK	2050	III	—
40	0.5	BU	2500	II	—	High Speed GMLAN Serial Data (+) 1	40	0.5	BU	2500	IV	—
41	0.5	WH	2501	II	—	High Speed GMLAN Serial Data (-) 1	41	0.5	WH	2501	IV	—
42	0.35	BU/ GN	1304	II	—	High Speed GMLAN Serial Data (+)9	42	0.35	BU/ GN	1304	IV	—
43	0.35	WH/ GN	1305	II	—	High Speed GMLAN Serial Data (-)9	43	0.35	WH/ GN	1305	IV	—
44 - 45	—	—	—	—	—	Not Occupied	44 - 45	—	—	—	—	—
46	0.5	RD/ VT	3340	II	—	Battery Positive Voltage	46	0.5	RD/ VT	3340	IV	—
47	0.35	VT/ GY	539	II	—	Run/Crank Ignition 1 Voltage	47	0.35	VT/ GY	539	IV	—
48	0.5	RD/ WH	640	II	—	Battery Positive Voltage	48	0.5	RD/ WH	640	IV	—

X204 Body Harness to HVAC Harness (LWN)



2394097



3931603

Connector Part Information

Harness Type: Body
OEM Connector: 7287-1405-80
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way F 1.5, 9.5 Series, Sealed (BN)

Connector Part Information

Harness Type: HVAC
OEM Connector: 7286-1397-30
Service Connector: Service by Harness - See Part Catalog
Description: 4-Way M 1.5, 9.5 Series, Sealed (BK)

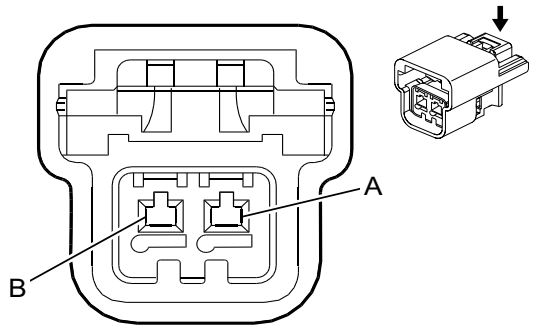
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-42 (RD)	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

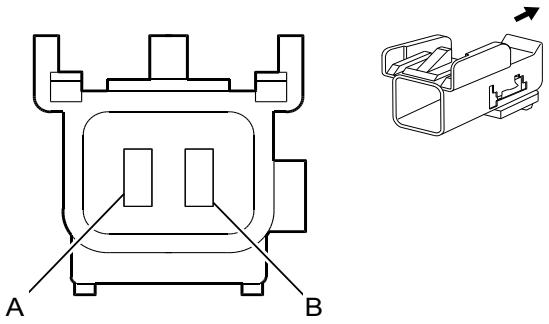
X204 Body Harness to HVAC Harness (LWN)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	10	BK	1350	I	—	Ground	1	10	BK/ GY	1350	II	—
2	10	RD/ GY	4840	I	—	Battery Positive Voltage	2	10	RD/ GY	4840	II	—
3 - 4	—	—	—	—	—	Not Occupied	3 - 4	—	—	—	—	—

X206 Instrument Panel Harness to HVAC Harness



2509234



872877

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13668003
Service Connector: 13587145
Description: 2-Way F 150 GT FBT Series (BK)

Connector Part Information

Harness Type: HVAC
OEM Connector: 15332130
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 150 GT Series (BK)

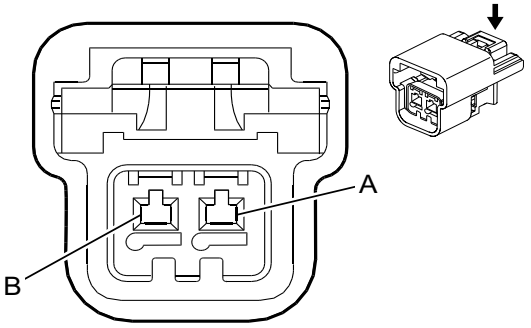
Terminal Part Information

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

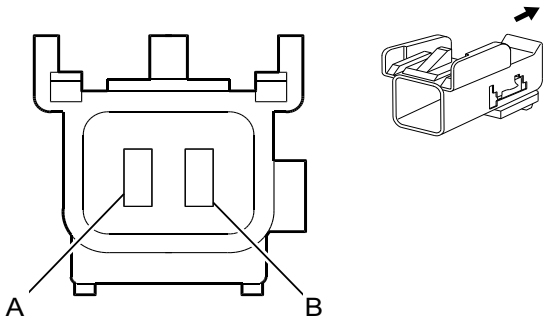
X206 Instrument Panel Harness to HVAC Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	—	—	—	—	—	Not Occupied	A	—	—	—	—	—
B	0.5	BN	518	I	—	Lower Left Air Temperature Sensor Signal	B	20	BN	518	II	—

X207 Instrument Panel harness to Passenger Air Bag Extension Harness



2509234



872877

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 13668003
Service Connector: 13587145
Description: 2-Way F 150 GT FBT Series (BK)

Connector Part Information

Harness Type: HVAC
OEM Connector: 15332130
Service Connector: Service by Harness - See Part Catalog
Description: 2-Way M 150 GT Series (BK)

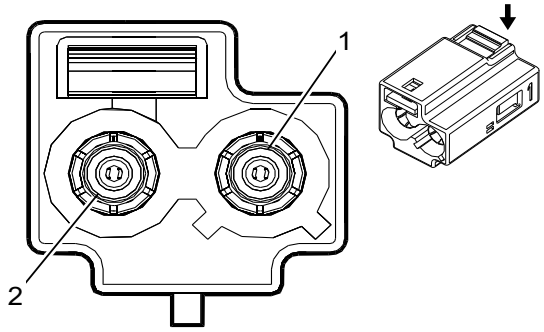
Terminal Part Information

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	Not Available	No Tool Required	Not Required	Not Required	Not Required	Not Required

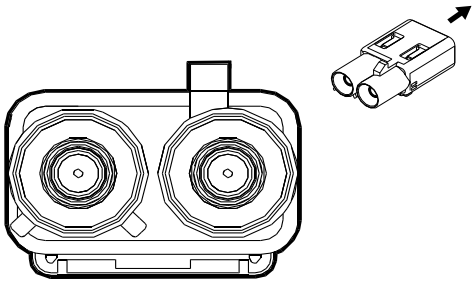
X207 Instrument Panel harness to Passenger Air Bag Extension Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
A	—	—	—	—	—	Not Occupied	A	—	—	—	—	—
B	0.5	BN	518	I	—	Lower Left Air Temperature Sensor Signal	B	20	BN	518	II	—

X218 Instrument Panel Harness to Body Harness (U2K)



3969442



4560903

Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: 13581975

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 2-Way F Coax Type (CU)

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13581974

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 2-Way M Coax Type (CU)

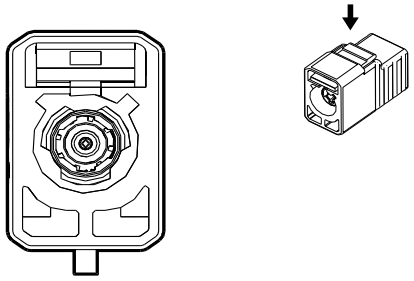
Terminal Part Information

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

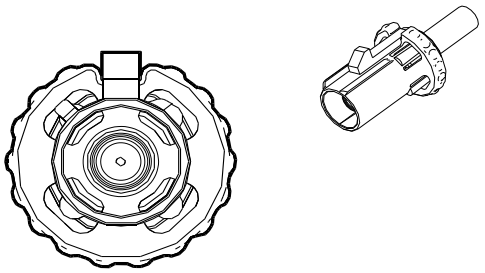
X218 Instrument Panel Harness to Body Harness (U2K)

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

X219 Instrument Panel Harness to Body Harness



2893647



4109605

Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: 13581687

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way F Coax Type (BK)

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13581674

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way M Coax Type (BK)

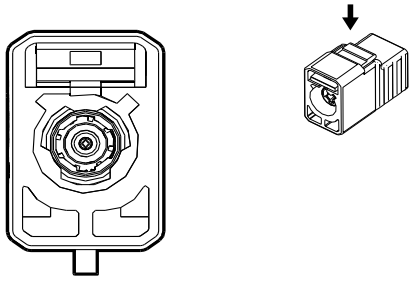
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

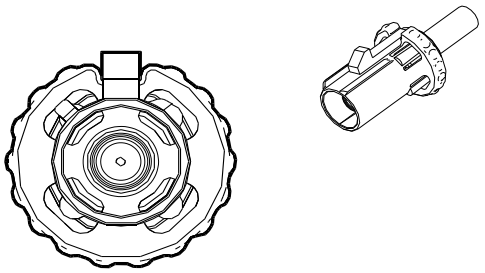
X219 Instrument Panel Harness to Body Harness

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

X220 instrument Panel Harness to Body Harness



2893647



4109605

Connector Part Information

Harness Type: Instrument Panel COAX

OEM Connector: 13581687

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way F Coax Type (BK)

Connector Part Information

Harness Type: Body COAX

OEM Connector: 13581673

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 1-Way M Coax Type (BK)

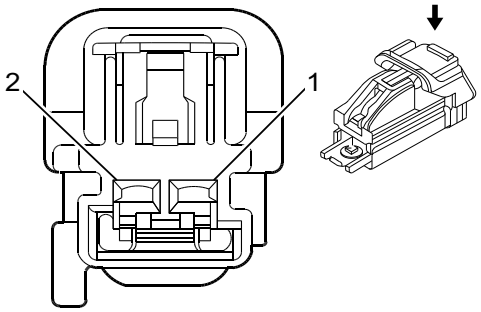
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

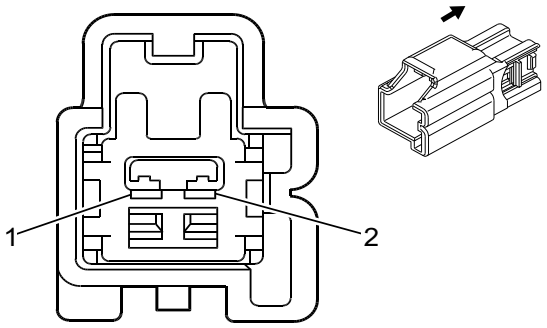
X220 instrument Panel Harness to Body Harness

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

X299 Instrument Panel Harness to Instrument Panel Harness



1856792



1853532

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 7283-6443-40
Service Connector: 19367525
Description: 2-Way F 1.5 YESC Series (L-GY)

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 7282-6443-40
Service Connector: 19367526
Description: 2-Way M 1.5 Series (L-GY)

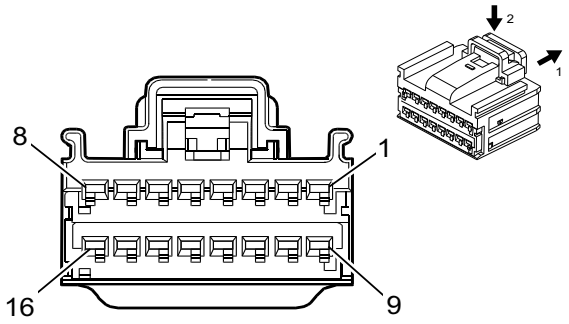
Terminal Part Information

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

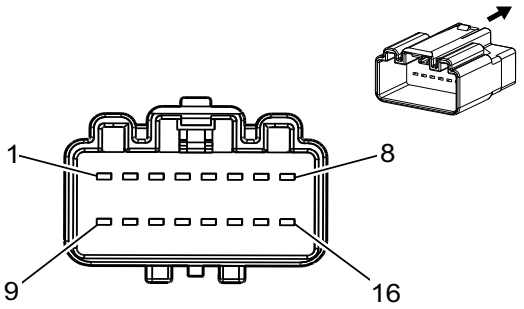
X299 Instrument Panel Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	GY/VT	3998	I	—	MOST Serial Data (+)	1	0.5	GY/VT	3998	II	—
2	0.5	WH/GN	3997	I	—	MOST Serial Data (-)	2	0.5	WH/GN	3997	II	—

X300 Headliner Harness to Body Harness



4332214



1483278

Connector Part Information

Harness Type: Headliner
OEM Connector: 15512506
Service Connector: 13591061
Description: 16-Way F 1.5 OCS Series (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 7282-6453-60
Service Connector: 89047072
Description: 16-Way M 1.5 Kaizen 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	19301767	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
II	13575818	J-35616-3 (GY)	J-38125-553	Not Available	Not Available	Not Available	Not Available

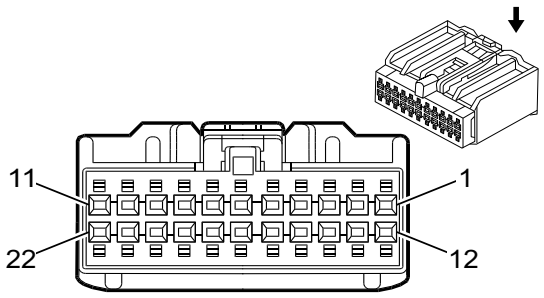
X300 Headliner Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	BK/BN	654	I	—	Cellular Telephone Microphone Low Reference	1	0.35	BK/BN	654	II	—
2	0.35	GN/BK	2515	I	—	Keypad Control	2	0.35	GN/BK	2515	II	—
3	0.35	GN/WH	2514	I	—	Keypad Signal	3	0.35	GN/WH	2514	II	—
4	0.35	YE/VT	2516	I	—	Keypad Green LED Control	4	0.35	YE/VT	2516	II	—
5	0.35	BN/WH	2517	I	—	Keypad Red LED Control	5	0.35	BN/WH	2517	II	—
6	0.35	YE/RD	597	I	—	5V Reference	6	0.35	YE/RD	597	II	—
7	0.35	BK/BU	7566	I	—	Humidity/ Windscreen Temp Sensor Low Reference	7	0.35	BK/BU	7566	II	—
8	0.35	GY/GN	7565	I	—	Windscreen Temp Sensor Signal	8	0.35	GY/GN	7565	II	—

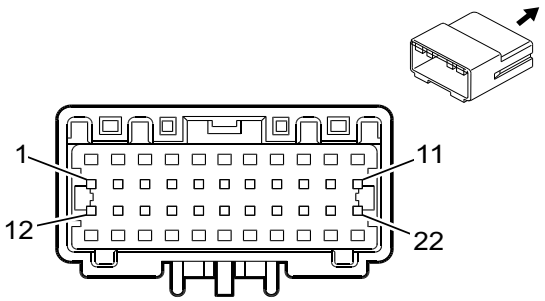
X300 Headliner Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	0.35	BU	655	I	—	Cellular Telephone Microphone Signal	9	0.35	BU	655	II	—
10	0.35	RD/GN	3140	I	—	Battery Positive Voltage	10	0.35	RD/GN	3140	II	—
11	0.35	BK/WH	3451	I	—	Signal Ground	11	0.35	BK/WH	3451	II	—
12	0.35	WH	3152	I	—	Lane Departure Warning Indicator Control	12	0.35	WH	3152	II	—
13	0.35	GY/WH	3153	I	—	Lane Departure Warning Disable Switch Signal	13	0.35	GY/WH	3153	II	—
14	0.35	GY/BU	7564	I	—	Humidity Sensor Signal	14	0.35	GY/BU	7564	II	—
15	0.35	YE/BU	3197	I	—	Humidity Temperature Sensor Signal	15	0.35	YE/BU	3197	II	—
16	—	—	—	—	—	Not Occupied	16	—	—	—	—	—

X301 Headliner Harness to Body Harness



2593042



2916467

Connector Part Information

Harness Type: Headliner
OEM Connector: AIT2PB-22-2AK
Service Connector: 13504097
Description: 22-Way F 0.64 Kaizen Series (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 13892299
Service Connector: 13505628
Description: 22-Way M 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	13575742	J-35616-64B (LT BU)	J-38125-215A	SAIT-A03T-M064	Yazaki 14	P	P
II	19299859	J-35616-65B (LT BU)	J-38125-215A	Not Available	Not Avail-able	Not Avail-able	Not Avail-able
III	19299859	J-35616-65B (LT BU)	J-38125-215A	SAITW-A03T-064	Delphi 20	J	J

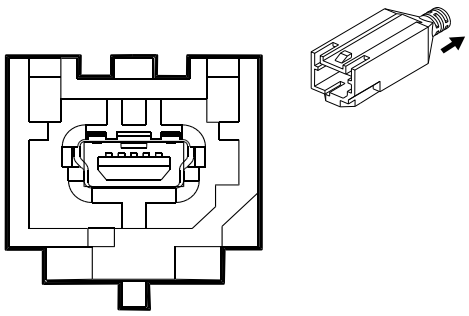
X301 Headliner Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	GY/ WH	3272	I	—	Remote Function Actuator Control	1	0.35	GY/ WH	3272	III	—
2	0.35	YE/ GN	3274	I	—	Remote Function Actuator Transmit Signal	2	0.35	YE/ GN	3274	III	—
3	0.35	BU/ WH	3275	I	—	Remote Function Actuator Receive Signal	3	0.35	BU/ WH	3275	III	—
4	0.35	GY	3273	I	—	Remote Function Actuator Low Reference	4	0.35	GY	3273	III	—
5	0.5	YE	6817	I	—	LED Backlight Dimming Control	5	0.5	YE	6817	III	—

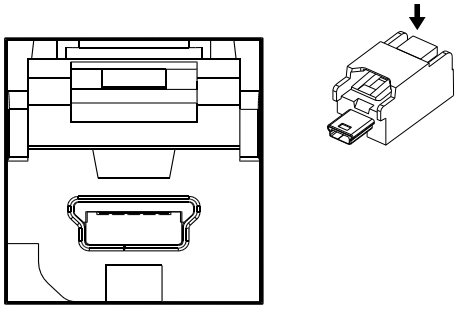
X301 Headliner Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.5	WH/ BN	6815	I	—	Inadvertent Power Control	6	0.75	WH/ BN	6815	II	—
7	0.5	GY	157	I	—	Interior Lamp Control	7	0.5	GY	157	III	—
8	0.35	GY/ GN	328	I	—	Interior Lamp Defeat Switch Signal	8	0.35	GY/ GN	328	III	—
9	0.35	GY	156	I	—	Courtesy Lamp Switch Signal	9	0.35	GY	156	III	—
10	0.5	VT/ GN	1739	I	—	Run/Crank Ignition 1 Voltage	10	0.5	VT/ GN	1739	III	—
11	0.5	GN/ WH	24	I	—	Backup Lamp Control	11	0.5	GN/ WH	24	III	—
12	0.75	BK	2050	I	—	Ground	12	0.75	BK	3150	II	—
13	—	—	—	—	—	Not Occupied	13	—	—	—	—	—
14	0.35	VT/ WH	5234	I	—	Passenger Seat Belt Indicator Control	14	0.35	VT/ WH	5234	III	—
15	0.35	BU	2307	I	—	Passenger Air Bag On Indicator Control	15	0.35	BU	2307	III	—
16	0.35	GN	2308	I	—	Passenger Air Bag Off Indicator Control	16	0.35	GN	2308	III	—
17	0.5	GN	5060	I	—	Low Speed GMLAN Serial Data	17	0.5	GN	5060	III	—
18	—	—	—	—	—	Not Occupied	18	—	—	—	—	—
19	0.35	VT/ WH	1139	I	—	Run/Crank Ignition 1 Voltage	19	0.35	VT/ WH	1139	III	—
20 - 22	—	—	—	—	—	Not Occupied	20 - 22	—	—	—	—	—

X302 Instrument Panel Harness to Floor Console Harness (IO5/IO6)



3214019



3214018

Connector Part Information

Harness Type: Instrument Panel USB

OEM Connector: Not Available

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 5-Way F

Connector Part Information

Harness Type: Floor Console USB

OEM Connector: 13584747

Service Connector: Service by Cable Assembly — See Part Catalog

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

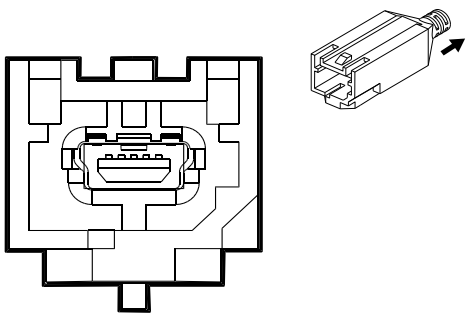
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

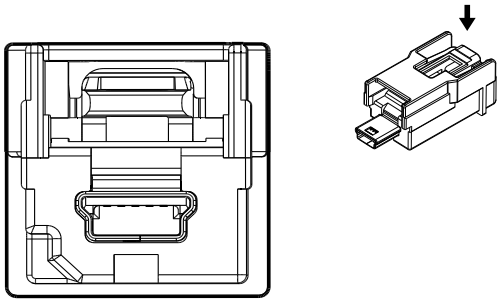
X302 Instrument Panel Harness to Floor Console Harness (IO5/IO6)

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

X302 Instrument Panel Harness to Floor Console Harness (IOB+N8D)



3214019



2807491

Connector Part Information

Harness Type: Instrument Panel USB

OEM Connector: Not Available

Service Connector: Service by Cable Assembly — See Part Catalog

Description: 5-Way F

Connector Part Information

Harness Type: Floor Console USB

OEM Connector: 13580213

Service Connector: Service by Cable Assembly — See Part Catalog

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

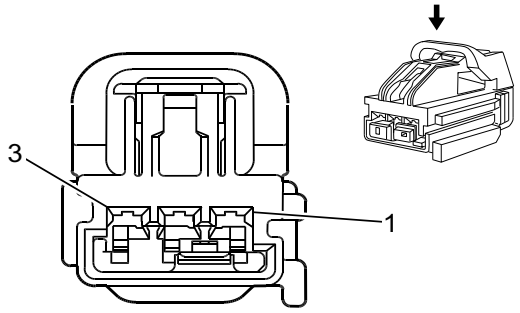
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	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

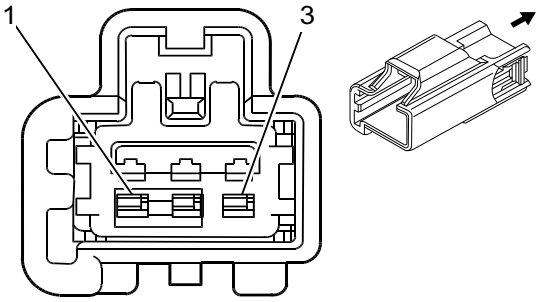
X302 Instrument Panel Harness to Floor Console Harness (IOB+N8D)

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

X303 Body Harness to Center High Mounted Stop Lamp Harness



1787799



1787800

Connector Part Information

Harness Type: Body
OEM Connector: 7283-3440-40
Service Connector: 19149536
Description: 3-Way F 1.5 Kaizen Series (L-GY)

Connector Part Information

Harness Type: Center High Mounted Stop Lamp
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 3-Way M

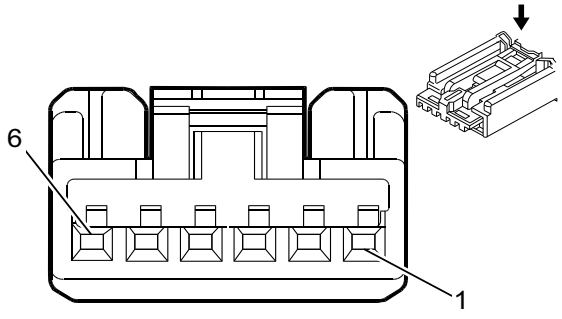
Terminal Part Information

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-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

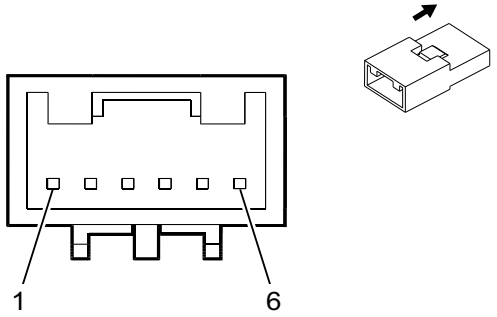
X303 Body Harness to Center High Mounted Stop Lamp Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	WH/VT	1430	I	—	Exterior Courtesy Lamp Control	1	0.75	BN	1430	II	—
2	0.5	VT/GY	1054	I	—	Stop Lamp Control	2	0.5	RD	1054	II	—
3	0.75	BK	3150	I	—	Ground	3	0.75	BK	3150	II	—

X304 Windshield Sensor Harness to Headliner Harness (C68)



1862240



2839920

Connector Part Information

Harness Type: Windshield Sensor
OEM Connector: 15269798
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F 0.64 Kaizen Series (BK)

Connector Part Information

Harness Type: Headliner
OEM Connector: AIT2WSB-06-1AK
Service Connector: 19299681
Description: 6-Way M 0.64 Kaizen Series (BK)

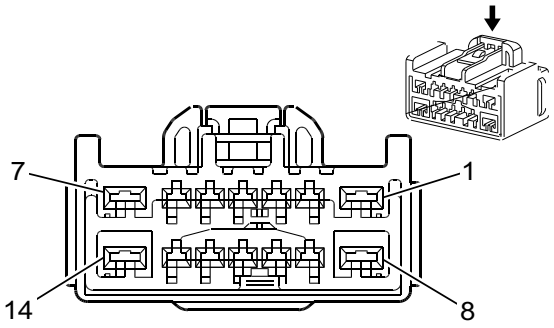
Terminal Part Information

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

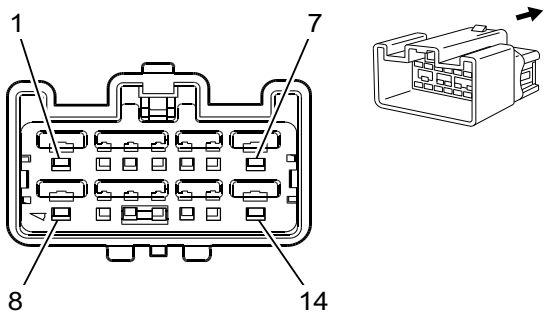
X304 Windshield Sensor Harness to Headliner Harness (C68)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	YE/RD	597	I	—	5V Reference	1	0.35	YE/RD	597	II	—
2	0.35	GY/BU	7564	I	—	Humidity Sensor Signal	2	0.35	GY/BU	7564	II	—
3	0.35	BK/BU	7566	I	—	Humidity/Windscreen Temp Sensor Low Reference	3	0.35	BK/BU	7566	II	—
4	0.35	GY/GN	7565	I	—	Windscreen Temp Sensor Signal	4	0.35	GY/GN	7565	II	—
5	0.35	YE/BU	3197	I	—	Humidity Temperature Sensor Signal	5	0.35	YE/BU	3197	II	—
6	—	—	—	—	—	Not Occupied	6	—	—	—	—	—

X305 Instrument Panel Harness to Floor Console Harness



823290



1283905

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 7283-6447-40
Service Connector: 88956524
Description: 14-Way F 1.5, 2.8 Series (L-GY)

Connector Part Information

Harness Type: Floor Console
OEM Connector: 7282-6447-40
Service Connector: Service by Harness - See Part Catalog
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	13575850	J-35616-14 (GN)	J-38125-557	Not Available	Not Available	Not Available	Not Available
II	19368264	J-35616-35 (VT)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
III	Not Required	J-35616-3 (GY)	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

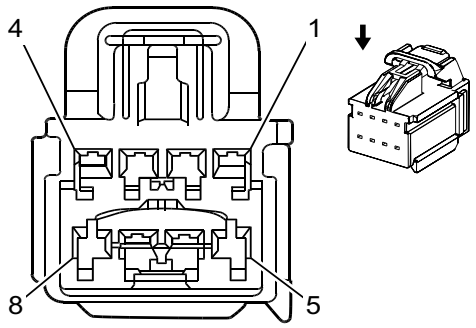
X305 Instrument Panel Harness to Floor Console Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	BK	2050	II	—	Ground	1	1.5	BK	2050	IV	—
2	0.35	BK/WH	2051	I	—	Signal Ground	2	0.35	BK/WH	2051	III	—
3 - 5	—	—	—	—	—	Not Occupied	3 - 5	—	—	—	—	—
6	0.5	RD/VT	340	I	—	Battery Positive Voltage	6	0.5	RD/VT	340	III	—
7	1.5	VT	1701	II	—	Retained Accessory Power Ignition	7	1.5	VT	1701	IV	—
8	1.5	BK	2050	II	—	Ground	8	1.5	BK	2050	IV	—
9	0.35	GN	5841	I	—	Right Auxiliary Audio Signal 2	9	0.35	GN	5841	III	—
10	0.35	GY	5839	I	—	Left Auxiliary Audio Signal 2	10	0.35	GY	5839	III	—

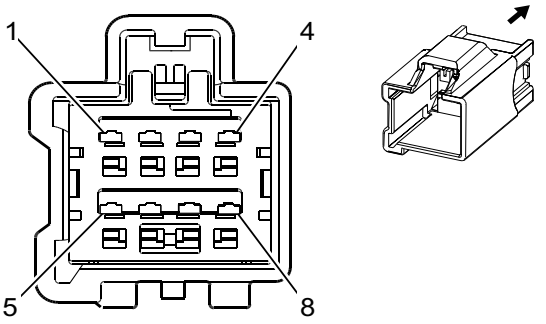
X305 Instrument Panel Harness to Floor Console Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
11	0.35	VT	5843	I	—	Auxiliary Audio Common Signal	11	0.35	VT	5843	III	—
12	0.5	BK	5842	I	—	Auxiliary Audio Screen 2	12	0.5	BK	5842	III	—
13	0.35	BU	2060	I	—	Auxiliary Detection Signal	13	0.35	BU	2060	III	—
14	1.5	VT	2101	II	—	Retained Accessory Power Fuse Ignition	14	1.5	VT	2101	IV	—

X306 Instrument Panel Harness to Floor Console Harness



1849808



1849807

Connector Part Information

Harness Type: Instrument Panel
OEM Connector: 7283-3441-40
Service Connector: 19153166
Description: 8-Way F 1.5 YESC Kaizen Series (L-GY)

Connector Part Information

Harness Type: Floor Console
OEM Connector: 7282-3441-40
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way M 1.5 YESC 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	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

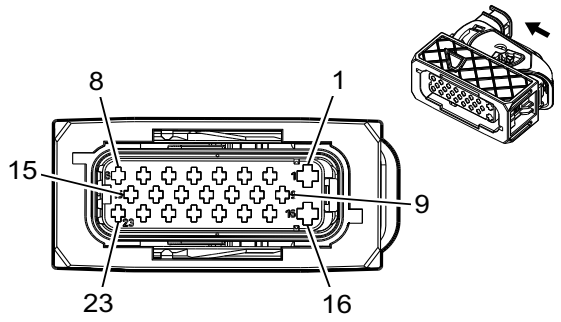
X306 Instrument Panel Harness to Floor Console Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	VT	801	I	—	Retained Accessory Power Fuse Control	1	0.35	VT	801	II	—
2	0.5	GN/BU	6133	I	—	Local Interconnect Network Serial Data Bus 2	2	0.5	GN/BU	6133	II	—
3	0.75	BK	2050	I	—	Ground	3	0.35 0.5	BK BK	2050 2050	II II	M5T/MYB Z82-JL1
4	0.5	VT	4601	I	—	Retained Accessory Power Fused Control	4	0.5	VT	4601	II	—
5	0.35	WH	6816	I	—	Indicator Dimming Control	5	0.35	WH	6816	II	—
6	0.35	VT/YE	5526	I	—	Tap Up/Tap Down Switch Signal	6	0.35	VT/YE	5526	II	—
7	0.5	VT/BK	7553	I	—	Park Lock Solenoid Control	7	0.5	VT/BK	7553	II	—

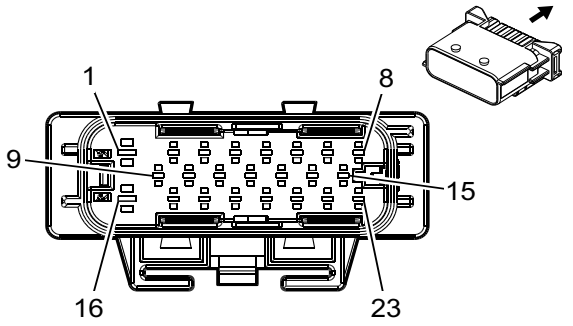
X306 Instrument Panel Harness to Floor Console Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	WH/ VT	5905	I	—	Key Capture/ Column Lock Shift Position Signal	8	0.5	WH/ VT	5905	II	—

X310 Driver Seat Cushion Harness to Body Harness



2906942



2906943

Connector Part Information

Harness Type: Driver Seat Cushion
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 23-Way F

Connector Part Information

Harness Type: Body
OEM Connector: 13750010
Service Connector: 19332380
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	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13575233	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	13575380	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13578882	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
V	19355817	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available

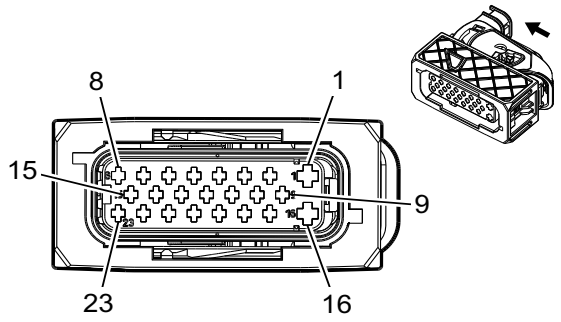
X310 Driver Seat Cushion Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/YE	5040	I	—	Battery Positive Voltage	1	2.5	RD/YE	5040	V	—
2	0.75	BK/YE	2080	I	—	Driver Heated Seat NTC Low Reference	2	0.75	BK/YE	2080	III	—
3 - 6	—	—	—	—	—	Not Occupied	3 - 6	—	—	—	—	—
7	0.35	YE/OG	3482	I	—	Driver Seat Belt Anchor Pretensioner Low Control	7	0.35	YE/OG	3482	II	—
8	0.35	OG/YE	3481	I	—	Driver Seat Belt Anchor Pretensioner High Control	8	0.35	OG/YE	3481	II	—
9	—	—	—	—	—	Not Occupied	9	—	—	—	—	—

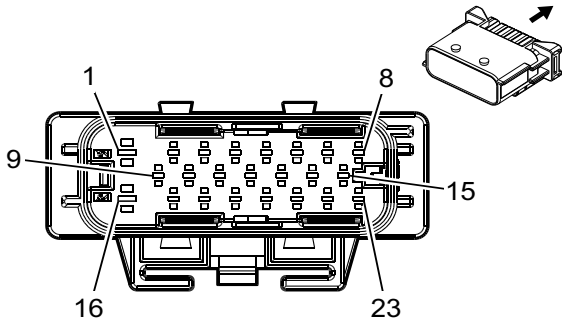
X310 Driver Seat Cushion Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
10	0.75	VT/ BK	2424	I	—	Driver Heated Back Element Low Reference	10	0.75	VT/ BK	2424	III	—
11	0.35	OG/ BN	238	I	—	Driver Seat Belt Switch Signal	11	0.35	OG/ BN	238	IV	—
12	0.35	GN/ VT	5906	I	—	Driver Seat Vent Motor Control 1	12	0.35	GN/ VT	5906	IV	—
13	0.75	BU	2425	I	—	Driver Heated Back NTC Signal	13	0.75	BU	2425	III	—
14	—	—	—	—	—	Not Occupied	14	—	—	—	—	—
15	0.35	GN/ OG	3069	I	—	Driver Side Impact Module Low Control	15	0.35	GN/ OG	3069	II	—
16	2.5	BK	3750	I	—	Ground	16	2.5	BK	3750	V	—
17	0.75	YE/ GY	2079	I	—	Driver Heated Seat NTC Signal	17	0.75	YE/ GY	2079	III	—
18	—	—	—	—	—	Not Occupied	18	—	—	—	—	—
19	0.35	BK/ OG	1363	I	—	Driver Seat Belt Switch Low Refer- ence	19	0.35	BK/ OG	1363	II	—
20	0.75	VT/ BK	1239	I	—	Run/Crank Ignition 1 Voltage	20	0.75	VT/ BK	1239	III	—
21	0.75	BN/ VT	2077	I	—	Driver Heated Seat Element Control	21	0.75	BN/ VT	2077	III	—
22	0.75	BN	2432	I	—	Driver Heated Back Element Control	22	0.75	BN	2432	III	—
23	0.35	OG/ BU	3068	I	—	Driver Side Impact Module High Control	23	0.35	OG/ BU	3068	II	—

X320 Passenger Seat Harness to Body Harness



2906942



2906943

Connector Part Information

Harness Type: Passenger Seat
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 23-Way F

Connector Part Information

Harness Type: Body
OEM Connector: 13750010
Service Connector: 19332380
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	Not Required	J-35616-14 (GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required
II	13575233	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
III	13575380	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13578882	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
V	19331731	J-35616-3 (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
VI	19355817	J-35616-5 (PU)	J-38125-36	Not Available	Not Available	Not Available	Not Available

X320 Passenger Seat Harness to Body Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/BN	1440	I	—	Battery Positive Voltage	1	2.5	RD/BN	1440	VI	—
2	0.75	BK/YE	2080	I	—	Driver Heated Seat NTC Low Reference	2	0.75	BK/YE	2080	III	—
3	0.75	RD/GN	5140	I	—	Battery Positive Voltage	3	0.75	RD/GN	5140	III	—
4	—	—	—	—	—	Not Occupied	4	—	—	—	—	—
5	0.5	BK/WH	2251	I	—	Signal Ground	5	0.5	BK/WH	2251	V	—

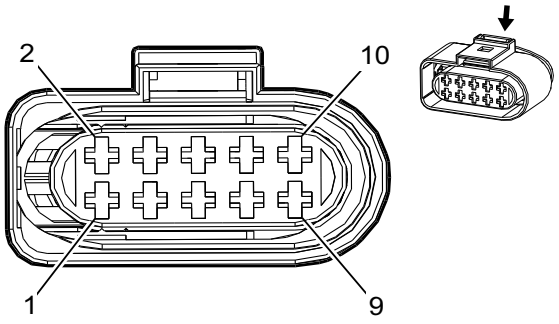
X320 Passenger Seat Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.35	GN	5060	I	—	Low Speed GMLAN Serial Data	6	0.35	GN	5060	IV	—
7	0.35	GY/OG	3480	I	—	Passenger Seat Belt Anchor Pretensioner Low Control	7	0.35	GY/OG	3480	II	—
8	0.35	OG/BN	3479	I	—	Passenger Seat Belt Anchor Pretensioner High Control	8	0.35	OG/BN	3479	II	—
9	0.75	RD/GN	6140	I	—	Battery Positive Voltage	9	0.75	RD/GN	6140	III	—
10	0.75	VT/BK	2424	I	—	Driver Heated Back Element Low Reference	10	0.75	VT/BK	2424	III	—
11	0.35	OG/VT	1362	I	—	Passenger Seat Belt Switch Signal	11	0.35	OG/VT	1362	II	—
12	0.35	RD/GN	4440	I	—	Battery Positive Voltage	12	0.35	RD/GN	4440	IV	—
13	0.75	BU	2425	I	—	Driver Heated Back NTC Signal	13	0.75	BU	2425	III	—
14	0.35	GN/VT	5906	I	—	Driver Seat Vent Motor Control 1	14	0.35	GN/VT	5906	IV	—
15	0.35	BN/OG	3067	I	—	Passenger Side Impact Module Low Control	15	0.35	BN/OG	3067	II	—
16	2.5	BK	3850	I	—	Ground	16	2.5	BK	3850	VI	—
17	0.75	YE/GY	2079	I	—	Driver Heated Seat NTC Signal	17	0.75	YE/GY	2079	III	—
18	0.5	GN/BU	6133	I	—	Local Inter-connect Network Serial Data Bus 2	18	0.5	GN/BU	6133	III	—
19	0.35	BK/OG	1361	I	—	Passenger Seat Belt Switch Low Reference	19	0.35	BK/OG	1361	II	—
20	0.75	VT/BK	1239	I	—	Run/Crank Ignition 1 Voltage	20	0.75	VT/BK	1239	III	—
21	0.75	BN/VT	2077	I	—	Driver Heated Seat Element Control	21	0.75	BN/VT	2077	III	—
22	0.75	BN	2432	I	—	Driver Heated Back Element Control	22	0.75	BN	2432	III	—

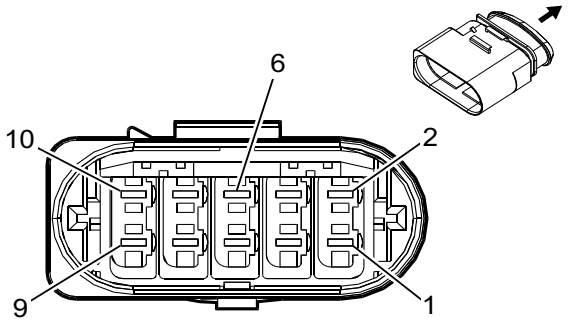
X320 Passenger Seat Harness to Body Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
23	0.35	OG/ GY	3066	I	—	Passenger Side Impact Module High Control	23	0.35	OG/ GY	3066	II	—

X400 License Lamp Harness to Chassis Harness (ZR2)



2335282



3926882

Connector Part Information

Harness Type: Chassis
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way F

Connector Part Information

Harness Type: License Lamp
OEM Connector: 1718167-1
Service Connector: Service by Harness - See Part Catalog
Description: 10-Way M 2.8 Series, Sealed (BK)

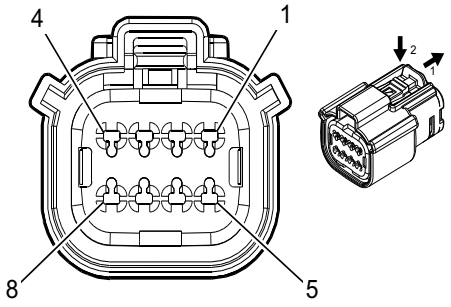
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available
II	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

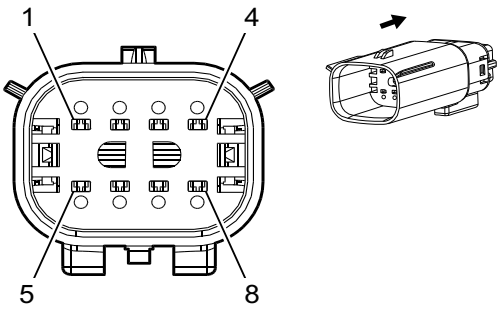
X400 License Lamp Harness to Chassis Harness (ZR2)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	GN/YE	6846	I	—	Rear License Lamp Control	1	0.5	GN/YE	6846	II	—
2	0.5	BK	750	I	—	Ground	2	0.5	BK	750	II	—
3 - 4	—	—	—	—	—	Not Occupied	3 - 4	—	—	—	—	—
5	0.5	WH/BU	6973	I	—	Camera Signal 2	5	0.5	WH/BU	6973	II	—
6	0.5	GY/YE	6972	I	—	Camera Signal 2 +	6	0.5	GY/YE	6972	II	—
7	0.5	Bare	6974	I	—	Camera Low Reference	7	0.5	Bare	6974	II	—
8	0.5	BK/WH	751	I	—	Signal Ground	8	0.5	BK/WH	751	II	—
9	0.5	VT/GN	1739	I	—	Run/Crank Ignition 1 Voltage	9	0.5	VT/GN	1739	II	—
10	0.5	GN/WH	24	I	—	Backup Lamp Control	10	0.5	GN/WH	24	II	—

X400 Chassis Harness to License Lamp Harness (-ZR2)



4846407



2667653

Connector Part Information

Harness Type: License Lamp
OEM Connector: 33472-4806
Service Connector: Service by Harness - See Part Catalog
Description: 8-Way F 150 MX Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis
OEM Connector: 33482-4801
Service Connector: 19300474
Description: 8-Way M 150 MX Series, Sealed (BK)

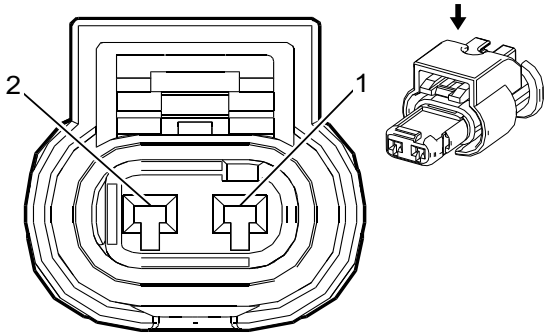
Terminal Part Information

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

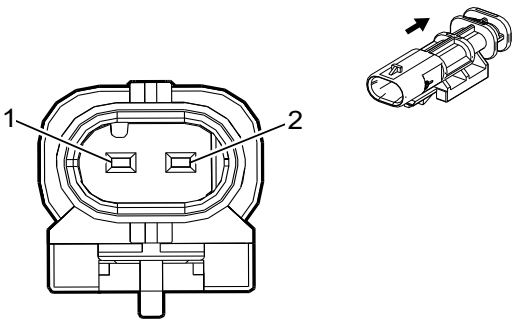
X400 Chassis Harness to License Lamp Harness (-ZR2)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.5	GY/YE	6972	I	—	Camera Signal 2 +	1	0.5	GY/YE	6972	II	—
2	0.5	BK/WH	751	I	—	Signal Ground	2	0.5	BK/WH	751	II	—
3	0.5	GN/WH	24	I	—	Backup Lamp Control	3	0.5	GN/WH	24	II	—
4	0.5	BK	750	I	—	Ground	4	0.5	BK	750	II	—
5	0.5	WH/BU	6973	I	—	Camera Signal 2	5	0.5	WH/BU	6973	II	—
6	0.5	GN	6974	I	—	Camera Low Reference	6	0.5	GN	6974	II	—
7	0.5	VT/GN	1739	I	—	Run/Crank Ignition 1 Voltage	7	0.5	VT/GN	1739	II	—
8	0.5	GN/YE	6846	I	—	Rear License Lamp Control	8	0.5	GN/YE	6846	II	—

X401 Chassis Harness to Chassis Harness



2474752



2474755

Connector Part Information

Harness Type: Chassis
OEM Connector: 1-1823608-5
Service Connector: 19329415
Description: 2-Way F 1.2 MCP Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis
OEM Connector: 2203314-1
Service Connector: 19332631
Description: 2-Way M 1.2 Multilock Series, Sealed (BK)

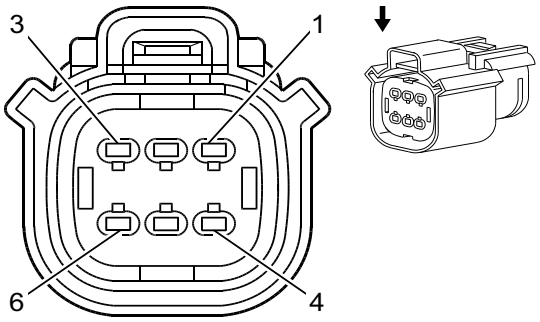
Terminal Part Information

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
II	Not Required	J-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

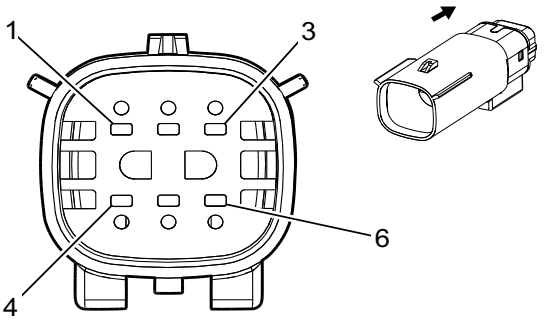
X401 Chassis Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.75	WH/ VT	1430	I	—	Exterior Courtesy Lamp Control	1	0.75	WH/ VT	1430	II	—
2	0.75	BK/ WH	751	I	—	Signal Ground	2	0.75	BK/ WH	751	II	—

X410 Tail Lamp - Left Harness to Chassis Harness



1664625



1986159

Connector Part Information

Harness Type: Tail Lamp - Left
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F

Connector Part Information

Harness Type: Chassis
OEM Connector: 33482-3601
Service Connector: 19368637
Description: 6-Way M 150 MX Series, Sealed (BK)

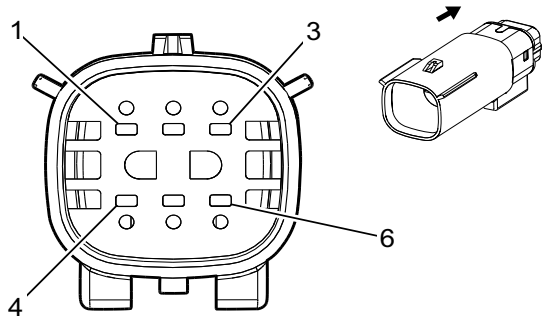
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (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

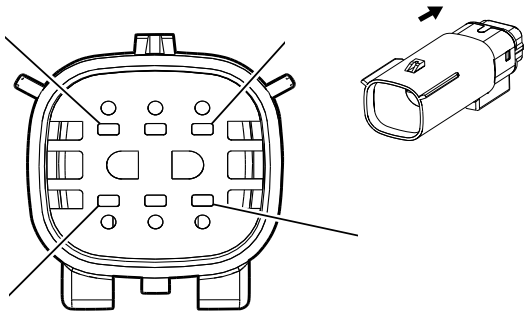
X410 Tail Lamp - Left Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	GN/WH	24	I	—	Backup Lamp Control Backup Lamp Control	1	1.5	GN/WH	24	II	—
2	1.5	BN/BU	2509	I	—	Left Rear Park Lamp Control	2	1.5	BN/BU	2509	II	—
3	1.5	GY/YE	7542	I	—	Left Rear Stop Lamp Control	3	1.5	GY/YE	7542	II	—
4	1.5	BK	750	I	—	Ground	4	1.5	BK	750	II	—
5 - 6	—	—	—	—	—	Not Occupied	5 - 6	—	—	—	—	—

X420 Tail Lamp - Right Harness to Chassis Harness



1986159



1986159

Connector Part Information

Harness Type: Tail Lamp - Right
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F

Connector Part Information

Harness Type: Chassis
OEM Connector: 33482-3601
Service Connector: 19368637
Description: 6-Way M 150 MX Series, Sealed (BK)

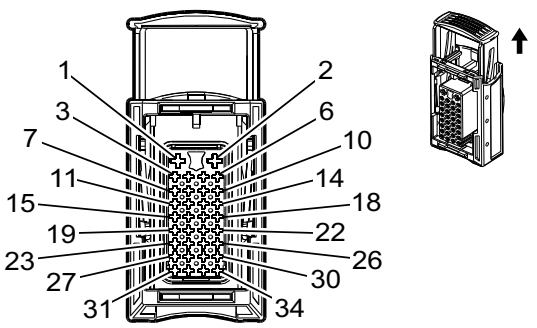
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray Name	Core Crimp	Insulation Crimp
I	Not Required	J-35616-14 (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

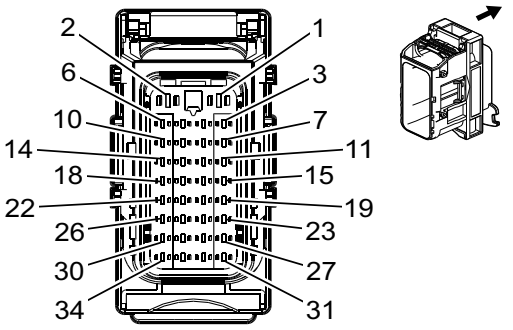
X420 Tail Lamp - Right Harness to Chassis Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	1.5	GN/WH	24	I	—	Backup Lamp Control Backup Lamp Control	1	1.5	GN/WH	24	II	—
2	1.5	BN/GY	2609	I	—	Right Rear Park Lamp Control	2	1.5	BN/GY	2609	II	—
3	1.5	WH/YE	7541	I	—	Right Rear Stop Lamp Control Right Rear Stop Lamp Control	3	1.5	WH/YE	7541	II	—
4	1.5	BK	850	I	—	Ground	4	1.5	BK	850	II	—
5 - 6	—	—	—	—	—	Not Occupied	5 - 6	—	—	—	—	—

X500 Body Harness to Driver Door Harness



2042940



2042941

Connector Part Information

Harness Type: Body
OEM Connector: 30432411
Service Connector: 19300485
Description: 34-Way F 1.5, 2.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Driver Door
OEM Connector: 3 053 06 11
Service Connector: Service by Harness - See Part Catalog
Description: 34-Way M 1.5, 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	13575357	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
II	13575377	J-35616-35 (VT)	J-38125-557	Not Available	Not Available	Not Available	Not Available
III	13578884	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	Not Required	J-35616-19 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required
V	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
VI	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X500 Body Harness to Driver Door Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/BU	1240	II	—	Battery Positive Voltage	1	2.5	RD/BU	1240	VI	—
2	2.5	BK	3550	II	—	Ground	2	2.5	BK	3550	VI	—
3	0.35	WH	3398	I	—	Passenger Mirror Motor Common Control	3	0.35	WH	3398	V	—
4	0.5	BN/YE	2267	III	—	Mirror Heating Element Control	4	0.5	BN/YE	2267	IV	—
5	0.35	YE/VT	3397	I	—	Passenger Mirror Motor Up (+) Down (-) Control	5	0.35	YE/VT	3397	V	—

X500 Body Harness to Driver Door Harness (cont'd)

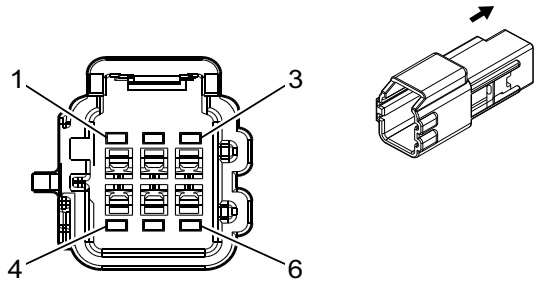
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.35	GN/BK	3396	I	—	Passenger Mirror Motor Right (+) Left (-) Control	6	0.35	GN/BK	3396	V	—
7 - 8	—	—	—	—	—	Not Occupied	7 - 8	—	—	—	—	—
9	1	BN/BU	118	III	—	Left Front Speaker Signal (-) 1	9	1	BN/BU	118	IV	—
10	1	BU	201	III	—	Left Front Speaker Control (+) 1	10	1	BU	201	IV	—
11	—	—	—	—	—	Not Occupied	11	—	—	—	—	—
12	0.35	WH	6816	I	—	Indicator Dimming Control	12	0.35	WH	6816	V	—
13	—	—	—	—	—	Not Occupied	13	—	—	—	—	—
14	0.35	OG/GN	2132	I	—	Left Front Side Impact Sensing Module Signal	14	0.35	OG/GN	2132	V	—
15	0.35	BK/OG	6628	I	—	Left Front Side Impact Sensing Module Low Reference	15	0.35	BK/OG	6628	V	—
16	0.35	RD/VT	1940	I	—	Battery Positive Voltage	16	0.35 0.5	RD/VT RD/VT	1940 1940	V IV	AXG+DG6/DL6/DL9 AXG-DG6-DL6-DL9
17	0.35	BN/WH	781	I	—	Driver Door Lock Switch Unlock Signal	17	0.35	BN/WH	781	V	—
18	0.35	BN/YE	780	I	—	Driver Door Lock Switch Lock Signal	18	0.35	BN/YE	780	V	—
19	0.75	BN/YE	294	III	—	Door Lock Actuator Unlock Control	19	0.75	BN/YE	294	IV	—
20	0.75	GY	5911	III	—	Door Lock Actuator Lock Control 2	20	0.75	GY	5911	IV	—
21 - 25	—	—	—	—	—	Not Occupied	21 - 25	—	—	—	—	—
26	0.35	YE	6817	I	—	LED Backlight Dimming Control	26	0.35	YE	6817	V	—
27 - 31	—	—	—	—	—	Not Occupied	27 - 31	—	—	—	—	—

X500 Body Harness to Driver Door Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
32	0.35	GY	5697	I	—	Child Lockout Indicator Control	32	0.35	GY	5697	V	—
33	0.5	GN/YE	6134	III	—	Local Interconnect Network Serial Data Bus 3	33	0.5	GN/YE	6134	IV	—
34	0.35	YE/BN	3265	I	—	Child Security Lock Switch Signal	34	0.35	YE/BN	3265	V	—

X510 Outside Rearview Mirror Harness to Driver Door Harness

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4446774

Connector Part Information

Harness Type: Outside Rearview Mirror
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F

Connector Part Information

Harness Type: Driver Door
OEM Connector: 6098-7693
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M 1.2 Series (BK)

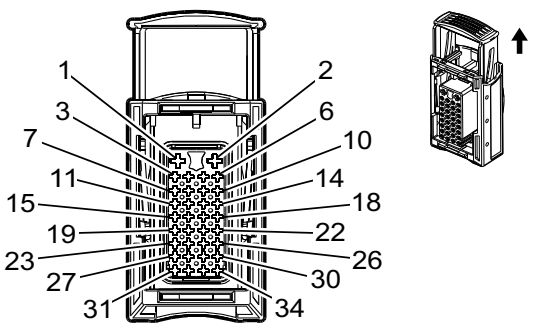
Terminal Part Information

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-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

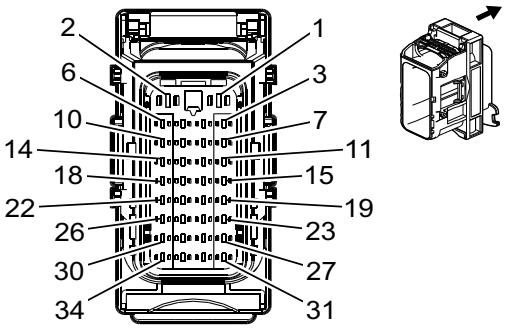
X510 Outside Rearview Mirror Harness to Driver Door Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	YE/ BN	3391	I	—	Driver Mirror Motor Common Control	1	0.35	YE/ BN	3391	II	—
2	0.35	VT/ BU	3390	I	—	Driver Mirror Motor Up (+) Down (-) Control	2	0.35	VT/ BU	3390	II	—
3	0.35	BN/ BK	3389	I	—	Driver Mirror Motor Right (+) Left (-) Control	3	0.35	BN/ BK	3389	II	—
4	0.5	BN/ YE	2267	I	—	Mirror Heating Element Control	4	0.5	BN/ YE	2267	II	—
5	0.5	BK	3550	I	—	Ground	5	0.5	BK	3550	II	—

X600 Body Harness to Passenger Door Harness



2042940



2042941

Connector Part Information

Harness Type: Body
OEM Connector: 30432411
Service Connector: 19300485
Description: 34-Way F 1.5, 2.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 3 053 06 11
Service Connector: Service by Harness - See Part Catalog
Description: 34-Way M 1.5, 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	13575357	J-35616-2A (GY)	J-38125-560	Not Available	Not Available	Not Available	Not Available
II	13575377	J-35616-35 (VT)	J-38125-557	Not Available	Not Available	Not Available	Not Available
III	13578884	J-35616-14 (GN)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	Not Required	J-35616-19 (BK)	No Tool Required	Not Required	Not Required	Not Required	Not Required
V	Not Required	J-35616-3 (GY)	No Tool Required	Not Required	Not Required	Not Required	Not Required
VI	Not Required	J-35616-5 (PU)	No Tool Required	Not Required	Not Required	Not Required	Not Required

X600 Body Harness to Passenger Door Harness

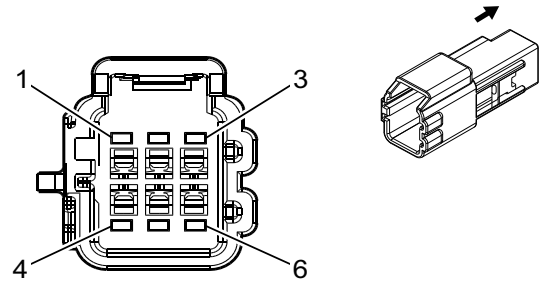
Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/WH	1340	II	—	Battery Positive Voltage	1	2.5	RD/WH	1340	VI	—
2	2.5	BK	3650	II	—	Ground	2	2.5	BK	3650	VI	—
3	0.35	WH	3398	I	—	Passenger Mirror Motor Common Control	3	0.35	WH	3398	V	—
4	0.5	BN/YE	2267	III	—	Mirror Heating Element Control	4	0.5	BN/YE	2267	IV	—
5	0.35	YE/VT	3397	I	—	Passenger Mirror Motor Up (+) Down (-) Control	5	0.35	YE/VT	3397	V	—

X600 Body Harness to Passenger Door Harness (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
6	0.35	GN/BK	3396	I	—	Passenger Mirror Motor Right (+) Left (-) Control	6	0.35	GN/BK	3396	V	—
7 - 8	—	—	—	—	—	Not Occupied	7 - 8	—	—	—	—	—
9	1	YE/BK	117	III	—	Right Front Speaker Signal (-) 1	9	1	YE/BK	117	IV	—
10	1	YE	200	III	—	Right Front Speaker Control (+) 1	10	1	YE	200	IV	—
11 - 13	—	—	—	—	—	Not Occupied	11 - 13	—	—	—	—	—
14	0.35	BN/OG	2134	I	—	Right Front Side Impact Sensing Module Signal	14	0.35	BN/OG	2134	V	—
15	0.35	BK/OG	6629	I	—	Right Front Side Impact Sensing Module Low Reference	15	0.35	BK/OG	6629	V	—
16	—	—	—	—	—	Not Occupied	16	—	—	—	—	—
17	0.35	BN/VT	245	I	—	Passenger Door Lock Switch Unlock Control	17	0.35	BN/VT	245	V	—
18	0.35	YE/VT	244	I	—	Passenger Door Lock Switch Lock Control	18	0.35	YE/VT	244	V	—
19	0.75	BN/YE	294	III	—	Door Lock Actuator Unlock Control	19	0.75	BN/YE	294	IV	—
20	0.75	GY	295	III	—	Door Lock Actuator Lock Control	20	0.75	GY	295	IV	—
21 - 25	—	—	—	—	—	Not Occupied	21 - 25	—	—	—	—	—
26	0.35	YE	6817	I	—	LED Backlight Dimming Control	26	0.35	YE	6817	V	—
27 - 32	—	—	—	—	—	Not Occupied	27 - 32	—	—	—	—	—
33	0.5	GN/YE	6134	III	—	Local Inter-connect Network Serial Data Bus 3	33	0.5	GN/YE	6134	IV	—
34	—	—	—	—	—	Not Occupied	34	—	—	—	—	—

X610 Outside Rearview Mirror Harness to Passenger Door Harness

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4446774

Connector Part Information

Harness Type: Outside Rearview Mirror
OEM Connector: Not Available
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way F

Connector Part Information

Harness Type: Passenger Door
OEM Connector: 6098-7693
Service Connector: Service by Harness - See Part Catalog
Description: 6-Way M 1.2 Series (BK)

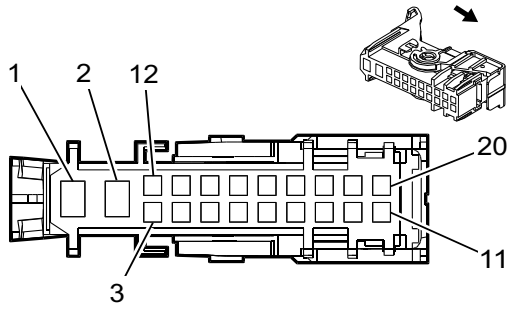
Terminal Part Information

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-35616-17 (LT GN)	No Tool Required	Not Required	Not Required	Not Required	Not Required

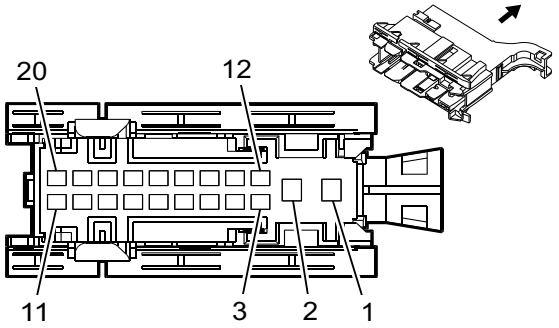
X610 Outside Rearview Mirror Harness to Passenger Door Harness

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	0.35	WH	3398	I	—	Passenger Mirror Motor Common Control	1	0.35	WH	3398	II	—
2	0.35	YE/ VT	3397	I	—	Passenger Mirror Motor Up (+) Down (-) Control	2	0.35	YE/ VT	3397	II	—
3	0.35	GN/ BK	3396	I	—	Passenger Mirror Motor Right (+) Left (-) Control	3	0.35	GN/ BK	3396	II	—
4	0.5	BN/ YE	2267	I	—	Mirror Heating Element Control	4	0.5	BN/ YE	2267	II	—
5	0.5	BK	3650	I	—	Ground	5	0.5	BK	3650	II	—

X700 Left Rear Door Harness to Body Harness (Crew Cab)



2474676



3621541

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 13678789
Service Connector: Service by Harness - See Part Catalog
Description: 20-Way F 4.8 Timer, 1.5 DSQ Series (GY)

Connector Part Information

Harness Type: Body
OEM Connector: 13680032
Service Connector: 13577518
Description: 20-Way M 1.5, 5.8 TTS 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-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	13575556	J-35616-34 (YE)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13575706	J-35616-32 (OR)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575775	J-35616-34 (YE)	J-38125-560	Not Available	Not Available	Not Available	Not Available
VI	19368263	J-35616-3 (GY)	J-38125-12A	964265-2	Lear 28	E	2
VII	19368263	J-35616-3 (GY)	J-38125-12A	964265-2	Lear 28	E	C

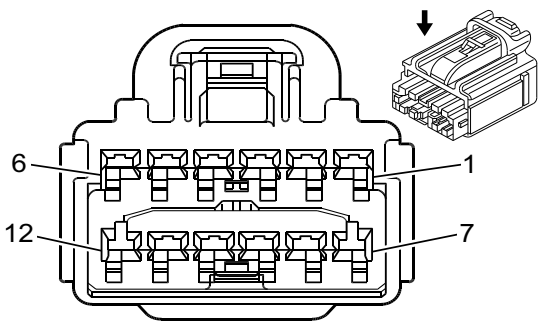
X700 Left Rear Door Harness to Body Harness (Crew Cab)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/BU	1240	II	—	Battery Positive Voltage	1	2.5	RD/BU	1240	IV	—
2	2.5	BK	3350	II	—	Ground	2	2.5	BK	3350	IV	—
3 - 6	—	—	—	—	—	Not Occupied	3 - 6	—	—	—	—	—
7	1	GN	199	I	—	Left Rear Speaker Control (+)	7	1	GN	199	III	—
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—

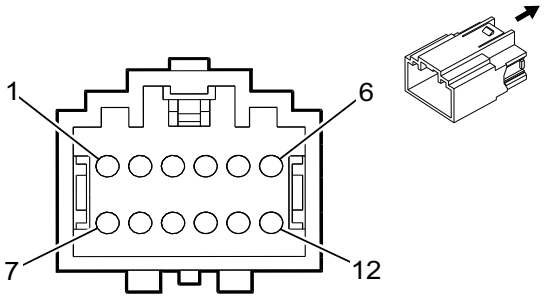
X700 Left Rear Door Harness to Body Harness (Crew Cab) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	0.75	WH/ BU	3266	I	—	Child Security Lock Motor Lock Control	9	0.75	WH/ BU	3266	VII	—
10	0.75	BN/ YE	294	I	—	Door Lock Actuator Unlock Control	10	0.75	BN/ YE	294	VII	—
11	0.75	GY	295	I	—	Door Lock Actuator Lock Control	11	0.75	GY	295	VII	—
12 - 15	—	—	—	—	—	Not Occupied	12 - 15	—	—	—	—	—
16	1	GN/ BK	116	I	—	Left Rear Speaker Signal (-)	16	1	GN/ BK	116	III	—
17 - 18	—	—	—	—	—	Not Occupied	17 - 18	—	—	—	—	—
19	0.35	BN/ WH	3269	I	—	Child Security Lock Motor Status Signal Left Rear	19	0.35	BN/ WH	3269	V	—
20	0.5	GN/ GY	6135	I	—	Local Inter-connect Network Serial Data Bus 4	20	0.5	GN/ GY	6135	VI	—

X700 Left Rear Door Harness to Body Harness (Extended Cab)



1856789



3240100

Connector Part Information

Harness Type: Left Rear Door
OEM Connector: 7283-3442-40
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F YESC Kaizen Series (L-GY)

Connector Part Information

Harness Type: Body
OEM Connector: 7282-3442-40
Service Connector: 88988266
Description: 12-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	13575818	J-35616-3 (GY)	J-38125-553	Not Available	Not Available	Not Available	Not Available
III	19329753	J-35616-3 (GY)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

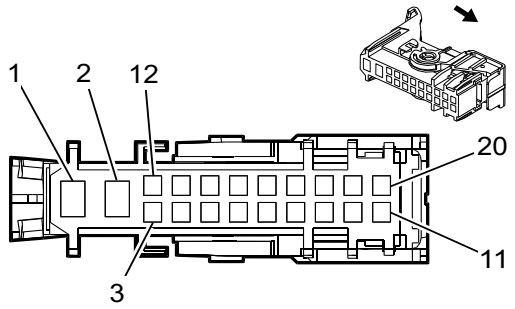
X700 Left Rear Door Harness to Body Harness (Extended Cab)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.5	OG/YE	3481	I	—	Driver Seat Belt Anchor Pretensioner High Control	2	0.35	OG/YE	3481	III	—
3	0.5	OG/WH	3477	I	—	Driver Seat Belt Retractor Pretensioner High Control	3	0.35	OG/WH	3477	III	—
4	1	GN/BK	116	I	—	Left Rear Speaker Signal (-)	4	1	GN/BK	116	II	—
5	0.35	GY	747	I	—	Left Rear Door Ajar Switch Signal	5	0.35	GY	747	II	—
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

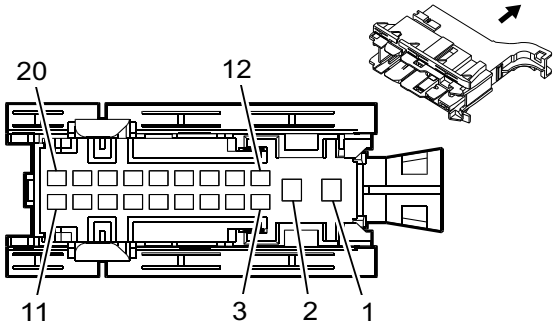
X700 Left Rear Door Harness to Body Harness (Extended Cab) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	YE/ OG	3482	I	—	Driver Seat Belt Anchor Pretensioner Low Control	8	0.35	YE/ OG	3482	III	—
9	0.5	GY/ OG	3478	I	—	Driver Seat Belt Retractor Pretensioner Low Control	9	0.35	GY/ OG	3478	III	—
10	1	GN	199	I	—	Left Rear Speaker Control (+)	10	1	GN	199	II	—
11	0.35	BK	3350	I	—	Ground	11	0.5	BK	3350	II	—
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

X800 Right Rear Door Harness to Body Harness (Crew Cab)



2474676



3621541

Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 13678789
Service Connector: Service by Harness - See Part Catalog
Description: 20-Way F 4.8 Timer, 1.5 DSQ Series (GY)

Connector Part Information

Harness Type: Body
OEM Connector: 13680032
Service Connector: 13577518
Description: 20-Way M 1.5, 5.8 TTS 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-35616-42 (RD)	No Tool Required	Not Required	Not Required	Not Required	Not Required
III	13575556	J-35616-34 (YE)	J-38125-560	Not Available	Not Available	Not Available	Not Available
IV	13575706	J-35616-32 (OR)	J-38125-36	Not Available	Not Available	Not Available	Not Available
V	13575775	J-35616-34 (YE)	J-38125-560	Not Available	Not Available	Not Available	Not Available
VI	19368263	J-35616-3 (GY)	J-38125-12A	964265-2	Lear 28	E	2
VII	19368263	J-35616-3 (GY)	J-38125-12A	964265-2	Lear 28	E	C

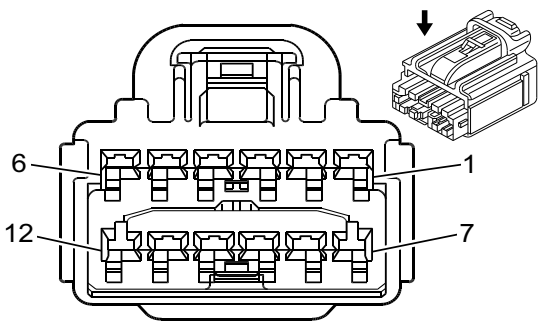
X800 Right Rear Door Harness to Body Harness (Crew Cab)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	2.5	RD/WH	1340	II	—	Battery Positive Voltage	1	2.5	RD/WH	1340	IV	—
2	2.5	BK	3450	II	—	Ground	2	2.5	BK	3450	IV	—
3 - 6	—	—	—	—	—	Not Occupied	3 - 6	—	—	—	—	—
7	1	WH	46	I	—	Right Rear Speaker Control (+)	7	1	WH	46	III	—
8	—	—	—	—	—	Not Occupied	8	—	—	—	—	—

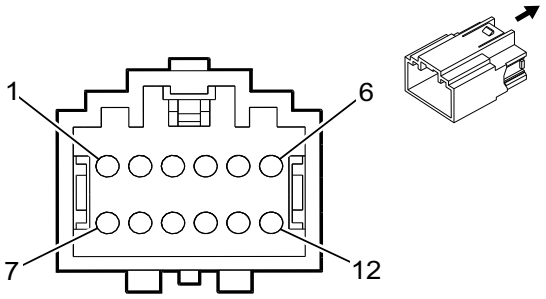
X800 Right Rear Door Harness to Body Harness (Crew Cab) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
9	0.75	WH/BU	3266	I	—	Child Security Lock Motor Lock Control	9	0.75	WH/BU	3266	VII	—
10	0.75	BN/YE	294	I	—	Door Lock Actuator Unlock Control	10	0.75	BN/YE	294	VII	—
11	0.75	GY	295	I	—	Door Lock Actuator Lock Control	11	0.75	GY	295	VII	—
12 - 15	—	—	—	—	—	Not Occupied	12 - 15	—	—	—	—	—
16	1	BU/BK	115	I	—	Right Rear Speaker Signal (-)	16	1	BU/BK	115	III	—
17 - 18	—	—	—	—	—	Not Occupied	17 - 18	—	—	—	—	—
19	0.35	GY/BK	3268	I	—	Child Security Lock Motor Status Signal Right Rear	19	0.35	GY/BK	3268	V	—
20	0.5	GN/GY	6135	I	—	Local Interconnect Network Serial Data Bus 4	20	0.5	GN/GY	6135	VI	—

X800 Right Rear Door Harness to Body Harness (Extended Cab)



1856789



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Connector Part Information

Harness Type: Right Rear Door
OEM Connector: 7283-3442-40
Service Connector: Service by Harness - See Part Catalog
Description: 12-Way F YESC Kaizen Series (L-GY)

Connector Part Information

Harness Type: Body
OEM Connector: 7282-3442-40
Service Connector: 88988266
Description: 12-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	13575818	J-35616-3 (GY)	J-38125-553	Not Available	Not Available	Not Available	Not Available
III	19329753	J-35616-3 (GY)	J-38125-12A	Not Available	Not Available	Not Available	Not Available

X800 Right Rear Door Harness to Body Harness (Extended Cab)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
1	—	—	—	—	—	Not Occupied	1	—	—	—	—	—
2	0.5	OG/BN	3479	I	—	Passenger Seat Belt Anchor Pretensioner High Control	2	0.35	OG/BN	3479	III	—
3	0.5	OG/GN	3475	I	—	Passenger Seat Belt Retractor Pretensioner High Control	3	0.35	OG/GN	3475	III	—
4	1	BU/BK	115	I	—	Right Rear Speaker Signal (-)	4	1	BU/BK	115	II	—
5	0.35	GY	748	I	—	Right Rear Door Ajar Switch Signal	5	0.35	GY	748	II	—
6 - 7	—	—	—	—	—	Not Occupied	6 - 7	—	—	—	—	—

X800 Right Rear Door Harness to Body Harness (Extended Cab) (cont'd)

Pin	Size	Color	Circuit	Terminal Type ID	Option	Function	Pin	Size	Color	Circuit	Terminal Type ID	Option
8	0.5	GY/OG	3480	I	—	Passenger Seat Belt Anchor Pretensioner Low Control	8	0.35	GY/OG	3480	III	—
9	0.5	WH/OG	3476	I	—	Passenger Seat Belt Retractor Pretensioner Low Control	9	0.35	WH/OG	3476	III	—
10	1	WH	46	I	—	Right Rear Speaker Control (+)	10	1	WH	46	II	—
11	0.35	BK	3450	I	—	Ground	11	0.5	BK	3450	II	—
12	—	—	—	—	—	Not Occupied	12	—	—	—	—	—

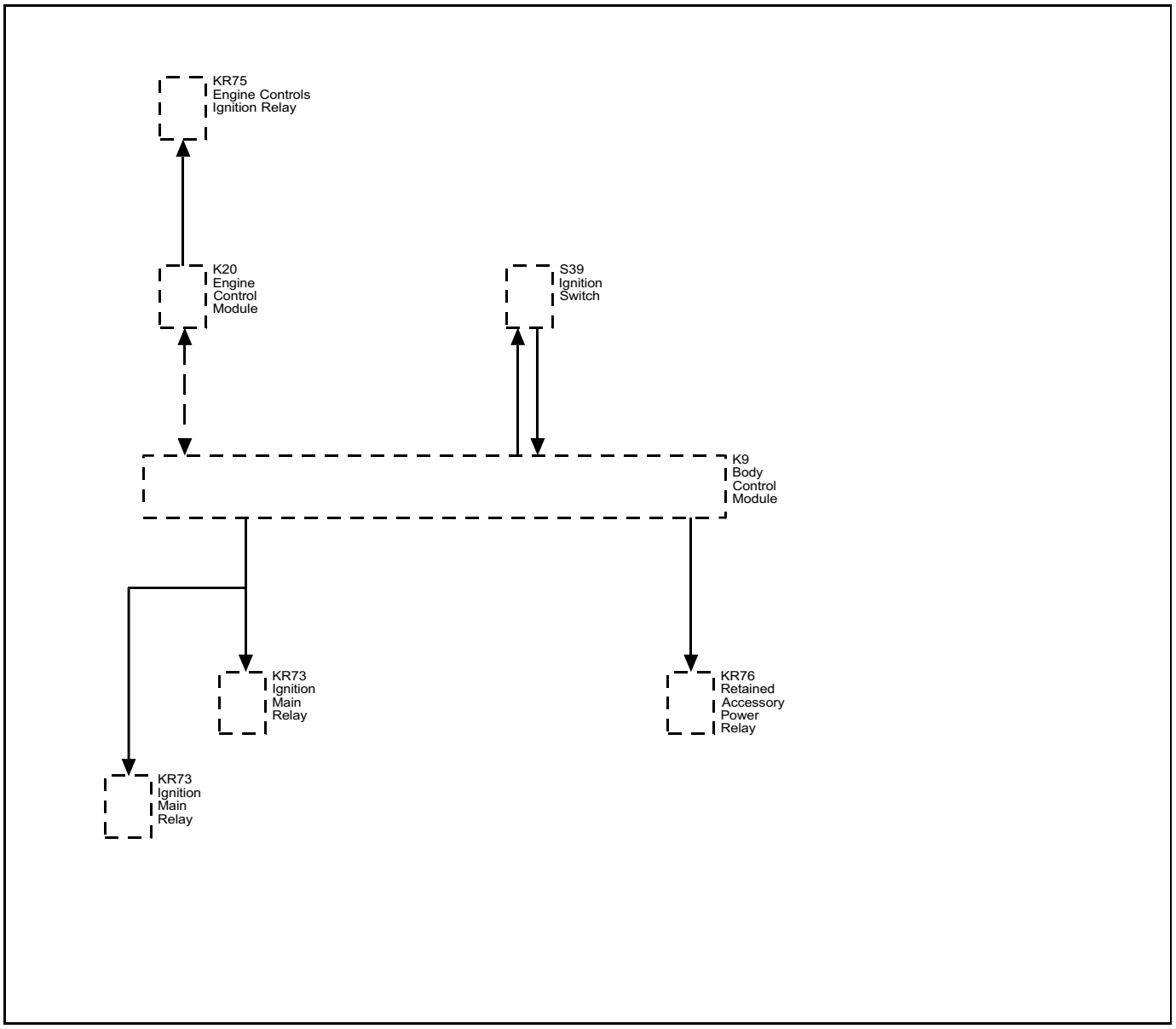
Description and Operation

Electronic Park Lock Description and Operation

If the vehicle is equipped with automatic transmission and a floor mounted console gear shift, it has an electronic park lock system (EPL). The EPL system purpose is to prevent the ignition key from being turned to the OFF position when the transmission is in any position other than PARK and the vehicle may still be moving. The EPL system consists of an ignition lock cylinder solenoid, and a park position switch that is located in the A/T shift lock control switch. The ignition lock cylinder solenoid contains a pin that is spring loaded to mechanically prevent the ignition key cylinder from being turned to the lock position when the vehicle transmission is not in the PARK position. If vehicle power is lost, and/or the transmission is not in the Park position the operator will not be able to turn the ignition key to the lock position and will not be able to remove the ignition key from the column.

Power Mode Description and Operation

Power Moding D&O Block Diagram



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Serial Data Power Mode Master

Power to many of this vehicles circuits is controlled by the module that is designated the power mode master. This vehicles power mode master 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 useful 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 power mode master for determination of the power mode that will be sent over the serial data circuits to the other modules that need this information. The power mode master will also activate relays and other direct outputs of the power mode master as needed. The power mode master 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 power mode serial data message does not match what the individual module can see from its own connections.

The power mode master receives ignition switch or ignition mode switch signals to identify the operators desired power mode. The Power Mode Parameter tables below illustrate the correct state of these input parameters (circuits) in correspondence to the ignition switch position or ignition mode switch with the transmitter to vehicle range:

Power Mode Parameters

Ignition Switch Position	Power Mode Transmitted	Ign. Off/Run/Crank (Off/Run Crank 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 BCM uses the discrete ignition switch inputs Off/Run/Crank 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 accessory relay remains on for a timed period after the Ignition key is removed. Refer to *Retained Accessory Power Description and Operation on page 3-656* for more information on the retained accessory power function.

Battery Saver Mode (Transport Mode)

Battery saver mode (transport mode) reduces the parasitic load of some modules during overseas shipment or during vehicle storage conditions. This improves the drain time on the battery (up to 70 days without the battery going dead). When a vehicle is in transport/storage, some features may have reduced functionality while in the battery saver mode, such as disabling keyless entry, afterblow, and content theft features. Battery saver mode is initiated by turning on the hazard flashers, applying the brake pedal, and then turning the ignition key to the start position or pushing the ignition mode switch with the foot on the brake for greater than 15 seconds. The mode is disengaged by repeating the previous process. The driver information center (if equipped) will display Transport Mode is On when battery saver mode is enabled and Transport Mode is Off when battery saver mode is disabled. For vehicles not equipped with a driver information center, the battery indicator light will constantly flash on the Instrument Cluster when battery saver mode is enabled. This feature can be used as many times as necessary if the vehicle is to be stored for an extended period of time.

BCM Awake/Sleep States

The BCM is able to control or perform all of the BCM functions in the awake state. The BCM enters the sleep state when active control or normal monitoring of system functions has stopped and a time limit has passed. The BCM must detect certain wake-up inputs before entering the awake state. The BCM monitors for these inputs during the sleep state.

The BCM will enter the awake state if any of the following wake-up inputs are detected:

- Activity on the serial data line
- Detection of a battery reconnect
- Any door open signal
- Headlamps ON
- Key-in-ignition
- Ignition ON
- Park lamps ON
- Keyless entry or remote start message

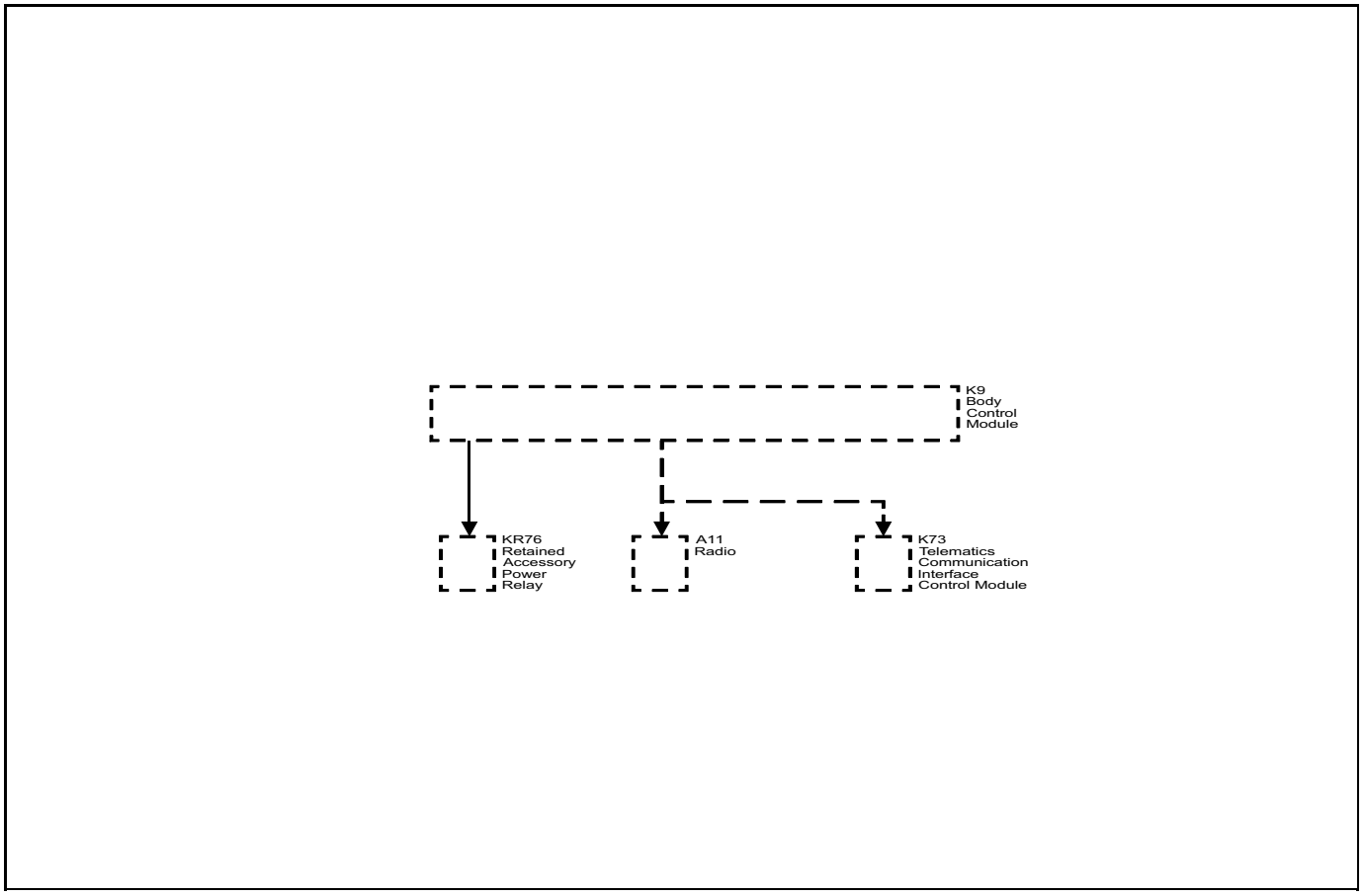
The BCM will enter a sleep state when all of the following conditions exist:

- The ignition switch is OFF, key out.
- Ignition OFF, transmitter is out of range
- No activity exists on the serial data line.
- No outputs are commanded.
- No delay timers are actively counting.
- No wake-up inputs are present.

If all these conditions are met, the BCM will enter a low power or sleep condition.

Retained Accessory Power Description and Operation

RAP Description and Operation Block Diagram



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Retained Accessory Power

The body control module (BCM) monitors the ignition switch position, battery condition, and each door ajar/open switch status to determine whether the retained accessory power should be initiated or terminated. Retained accessory power is controlled by two different methods; relay control and serial data. Some modules receive a retained accessory power message from the BCM over the serial data circuits. Serial data controlled retained accessory power is deactivated as required by their modules retained accessory power mode operation. Other subsystems are activated directly by the BCM through a relay. Components and systems that are active in retained accessory power are also activated anytime the ignition is any position other than OFF regardless of the door switch signals.

Relay Controlled Retained Accessory Power

The BCM keeps the 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 retained accessory power will end when one of the following conditions is met:

- The BCM receives an input from any door ajar or open switch indicating the opening of any door after the ignition key is out of the ignition.

  Note: If the BCM is receiving any door ajar or open signal from those switches when the ignition key is turned OFF, retained accessory power will not initiate.

- The BCM internal timer for the retained accessory power expires after approximately 10 minutes.
- The BCM detects a decrease in battery capacity below a prescribed limit.

Systems powered by the retained accessory power relay during the retained accessory power mode are as follows:

Note: The vehicle may not be equipped with all components as listed below.

- Accessory Power Receptacle
- Cigarette Lighter Receptacle
- Window Switches
- Sunroof Control Module
- Sunroof Switch
- Mobile Device Wireless Charger Module

- Mobile Telephone Control Module
- Traffic Data Receiver
- Transmission Shift Lever Position Indicator (w/ floor mounted console gear shift)
- Seat Heating Control Module

Serial Data Controlled Retained Accessory Power

Retained accessory power systems controlled by serial data are as follows:

Radio

Radio retained accessory power activation / termination is the same as relay operation with one exception; the only door switch that will turn off the radio during retained accessory power is the driver door open switch.

Vehicle Communication Interface Module (VCIM) (Onstar®) (If Equipped)

VCIM RAP activation/termination is the same as radio operation with 1 exception; if there is an active call when the ignition key is turned off the VCIM will remain in RAP mode, and keep the radio in RAP mode until the call is terminated.

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Section 4

Transmission

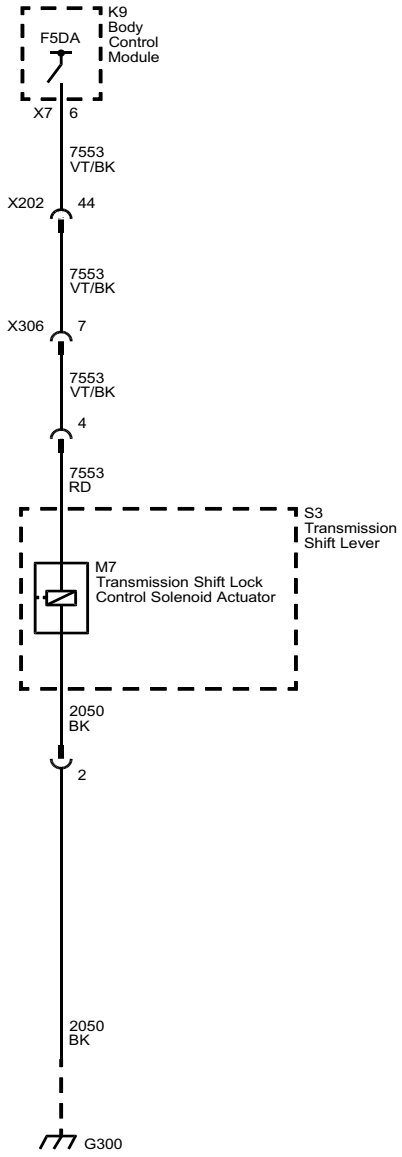
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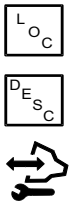
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Shift Lock Control

Schematic and Routing Diagrams

Shift Lock Control Schematics (MYB)





4699313

Description and Operation

Automatic Transmission Shift Lock Control Description and Operation (Without T4Z)

The automatic transmission park lock control system is a safety device that prevents an inadvertent shift out of PARK. The driver must press the brake pedal before moving the park lever out of the PARK position. The system consists of the following components:

- The automatic transmission park lock solenoid (serviced as the automatic transmission shift lock actuator), is located within the floor shift control assembly.
- The body control module, which controls the voltage supply circuit of the park lock control solenoid.
- The engine control module.

The body control module controls the voltage to the park lock control solenoid through the park lock control solenoid controlled voltage circuit. The following conditions must be met before the body control module will supply voltage to the park lock solenoid:

- The ignition is in the ON position.
- The engine control module sends an input via GMLAN serial data to the body control module indicating the transmission is in the PARK position.
- The body control module determines the brake pedal is applied according the brake pedal position.

Since the park lock control solenoid is permanently grounded, the body control module supplies voltage to the automatic transmission park lock control solenoid, unlocking the park lever allowing the driver to move the park lever out of the PARK position as the solenoid energizes. When the brake pedal is not applied, the body control module turns the control voltage output of the park lock control solenoid OFF, de-energizing the park lock control solenoid. The de-energized solenoid mechanically locks the park lever in the PARK position.

Automatic Transmission Shift Lock Control Description and Operation (With T4Z)

The automatic transmission park lock control system is a safety device that prevents an inadvertent shift out of PARK. Vehicles equipped with the Safety Belt Assurance System (RPO T4Z), the driver must press the brake pedal and have the driver and if present, the front outboard passenger safety belt(s) buckled before moving the park lever out of the PARK position. The system consists of the following components:

- The automatic transmission park lock solenoid (serviced as the automatic transmission shift lock actuator), is located within the floor shift control assembly.
- The body control module, which controls the voltage supply circuit of the park lock control solenoid.
- The engine control module.
- The inflatable restraint sensing and diagnostic module.

The body control module controls the voltage to the park lock control solenoid through the park lock control solenoid controlled voltage circuit. The following conditions must be met before the body control module will supply voltage to the park lock solenoid:

- The ignition is in the ON position.
- The engine control module sends an input via GMLAN serial data to the body control module indicating the transmission is in the PARK position.
- The body control module determines the brake pedal is applied according the brake pedal position.
- The inflatable restraint sensing and diagnostic module determines if the occupied driver and front outboard passenger, if present, have their safety belt(s) buckled.

Since the park lock control solenoid is permanently grounded, the body control module supplies voltage to the automatic transmission park lock control solenoid, unlocking the park lever allowing the driver to move the park lever out of the PARK position as the solenoid energizes. When the brake pedal is not applied, the body control module turns the control voltage output of the park lock control solenoid OFF, de-energizing the park lock control solenoid. The de-energized solenoid mechanically locks the park lever in the PARK position.

Vehicles with the Safety Belt Assurance System, will display the following message “Shift Locked, Buckle Seatbelt” if the driver and front outboard passenger, if present, do not have safety belt(s) buckled. The vehicle will not shift out of PARK. Buckle the safety belt(s) to unlock the shifter.

This system may not allow the vehicle to shift out of PARK if an object such as a briefcase, handbag, grocery bag, laptop, or other electronic devices is on the front outboard passenger seat. If this happens, remove the object from the seat or buckle the safety belt.

Vehicles with the Safety Belt Assurance System, will display the following message “Shift Unlocked, Brake To Shift” if the system times out and allows the vehicle to be shifted out of PARK after 30 s following brake applied.

The Safety Belt Assurance System can be disabled with a calibration file update in the K36 Inflatable Restraint Sensing and Diagnostic Module using SPS. This procedure should only be done to help resolve a customer dissatisfaction issue.

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