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# General Information

## Introduction

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



5028742

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

### Vehicle Identification Number (VIN) System

| Position | Definition                   | Character | Description                            |
|----------|------------------------------|-----------|----------------------------------------|
| 1        | Country of Origin            | 1         | United States                          |
|          |                              | 2         | Canada                                 |
|          |                              | 3         | Mexico                                 |
| 2        | Manufacturer                 | G         | General Motors                         |
| 3        | Vehicle Brand/Type           | B         | Chevrolet Incomplete                   |
|          |                              | C         | Chevrolet Truck                        |
| 4        | GVWR/Brake System/Body Style | N         | 6,001–7,000 lbs/Hydraulic/Standard Cab |
|          |                              | P         | 6,001–7,000 lbs/Hydraulic/Crew Cab     |
|          |                              | R         | 6,001–7,000 lbs/Hydraulic/Extended Cab |
|          |                              | U         | 7,001–8,000 lbs/Hydraulic/Crew Cab     |

## 2-64 Trailing Systems

with up to (5) individual trailers. The sensors must be mounted onto each tire and wheel assembly, and the sensors must be learned by the vehicle by following the learning procedure as shown in the Trailing App section of this manual. For sensor installation assistance, please contact your trailer service center or tire service center. The Trailer Tire Pressure Monitor System sensors monitor the air pressure in the trailer tires and transmit the trailer tire pressure readings to a receiver located in the vehicle. The trailer tire pressure sensors can transmit up to 23 feet (7 meters) from the hitch receiver of the vehicle. The tire pressure values can be viewed in the trailing app in the vehicle's center stack.

### Trailing Diagnostic Tools

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

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

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

### Available Trailer Presence Simulator Tool

| Illustration                                                                                   | Tool Number/Description                        |
|------------------------------------------------------------------------------------------------|------------------------------------------------|
| <br>5166189 | EL-52641<br>Trailer Presence<br>Simulator Tool |

### Simulated Trailer Lighting

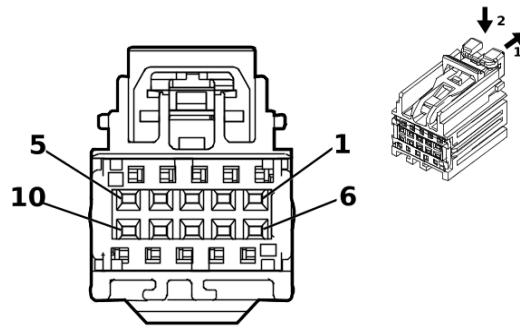
Creating a tool to simulate a connected trailer can be used to diagnose issues with trailer lighting, trailer brake (if equipped), the Trailing App (if equipped), and trailer tire pressure monitoring system (if equipped).

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

### Creating a Simulated Trailer Lighting Tool

Parts needed:

- 7-way RV trailer connector Qty: 1
- Note:** The combination trailer stop/turn, and backup lamps must draw at least 55mA of total current to be detected as a trailer. Some LED combination lamps will not draw enough current. If an LED combination lamp is used, make sure it draws at least 55mA. A load resistor can be added to the circuit if necessary to obtain the correct load.
- Combination trailer park/stop/turn lamp (greater than 55mA drawn when on) Qty: 2
  - Reverse lamp Qty: 1
  - 12 gauge wire and terminals/connectors Qty: As needed
  - 18 gauge wire and terminals/connectors Qty: As needed
  - Mounting board Qty: 1
- Connect a 12 gauge wire to the ground terminal of the 7-way trailer connector and the ground circuit of each combination trailer park/stop/turn lamp and the reverse lamp in parallel.
  - Connect an 18 gauge wire between the park lamp terminal of the 7-way trailer connector and the park lamp circuit of each combination trailer park/stop/turn lamp in parallel.
  - Connect an 18 gauge wire between the left turn/stop lamp terminal of the 7-way trailer connector and the turn/stop lamp circuit of left trailer park/stop/turn lamp.
  - Connect an 18 gauge wire between the right turn/stop lamp terminal of the 7-way trailer connector and the turn/stop lamp circuit of right trailer park/stop/turn lamp.
  - Connect an 18 gauge wire between the reverse lamp terminal of the 7-way trailer connector and the reverse lamp.
- Note:** A combination trailer lighting and trailer brake tool can be created on the same mounting board.
- Mount the left combination trailer park/stop/turn lamp, right combination trailer park/stop/turn lamp, and reverse lamp to the mounting board.
  - Plug the 7-way RV trailer connector to the vehicle and verify functionality.

**A23RR Rear Side Door Latch - Right (Extended Cab/Crew Cab)**

4622549

**Connector Part Information**

Harness Type: Rear Side Door Door Wiring Harness - Right

OEM Connector: 33320811

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way F 0.64 YESC Kaizen Series( GN)

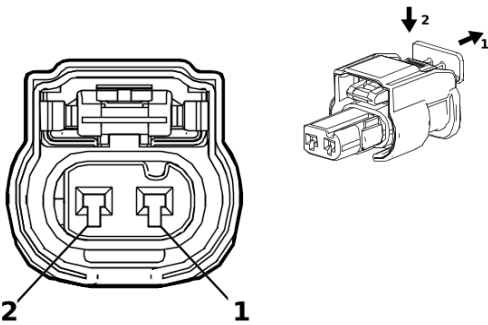
**Terminal Part Information**

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

**A23RR Rear Side Door Latch - Right (Extended Cab/Crew Cab)**

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

B68A Knock Sensor 1 (L3B)



3960139

Connector Part Information

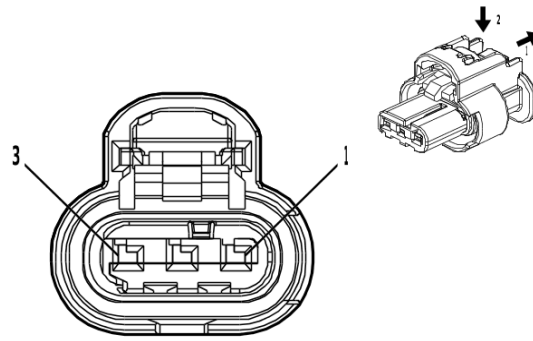
Harness Type: Fuel Injector Wiring Harness  
OEM Connector: 34900-2120  
Service Connector: Service by Harness - See Part Catalog  
Description: 2-Way F 1.2 MCON Series, Sealed( BK)

Terminal Part Information

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

B68A Knock Sensor 1 (L3B)

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

**B321 Crankcase Pressure Sensor (LM2)**

4778903

**Connector Part Information**

Harness Type: Engine Wiring Harness

OEM Connector: 33358808

Service Connector: 86792095

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

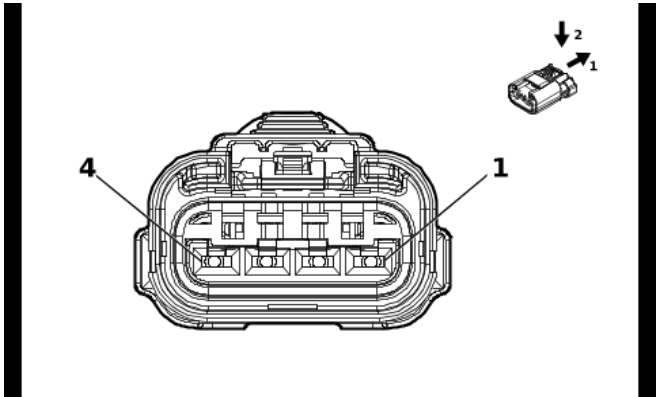
**Terminal Part Information**

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

**B321 Crankcase Pressure Sensor (LM2)**

| Pin | Size | Color   | Circuit | Function                                      | Terminal Type ID | Option |
|-----|------|---------|---------|-----------------------------------------------|------------------|--------|
| 1   | 0.5  | BU / RD | 460     | Engine Control Sensors 5 Volt Reference 1     | I                | —      |
| 2   | 0.5  | YE / GY | 3926    | Crankcase Differential Pressure Sensor Signal | I                | —      |
| 3   | 0.5  | BK / YE | 548     | Engine Control Sensors Low Reference 1        | I                | —      |

G10L Cooling Fan Motor - Left (L3B)



5838592

Connector Part Information

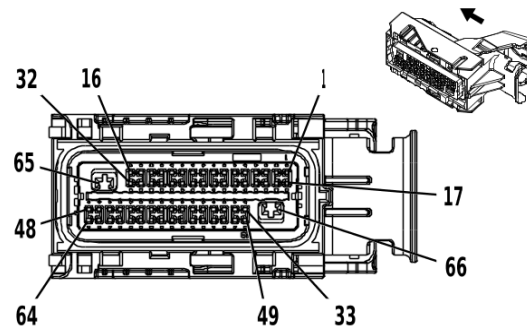
Harness Type: Engine Wiring Harness  
OEM Connector: 35243535  
Service Connector: Service by Harness - See Part Catalog  
Description: 4-Way F 2.8 APEX Series, Sealed( BK)

Terminal Part Information

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

G10L Cooling Fan Motor - Left (L3B)

| Pin | Size | Color   | Circuit | Function                        | Terminal Type ID | Option |
|-----|------|---------|---------|---------------------------------|------------------|--------|
| 1   | 5    | BK      | 6550    | Ground                          | II               | —      |
| 2   | 5    | RD / GN | 3840    | Battery Positive Voltage        | II               | —      |
| 3   | —    | —       | —       | Not Occupied                    | —                | —      |
| 4   | 0.75 | GN / VT | 4621    | Engine Control Module LIN Bus 1 | I                | —      |

**K38 Chassis Control Module (G93/G94)**

3621452

**Connector Part Information**

Harness Type: Chassis Wiring Harness

OEM Connector: 13965710

Service Connector: 19329822

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

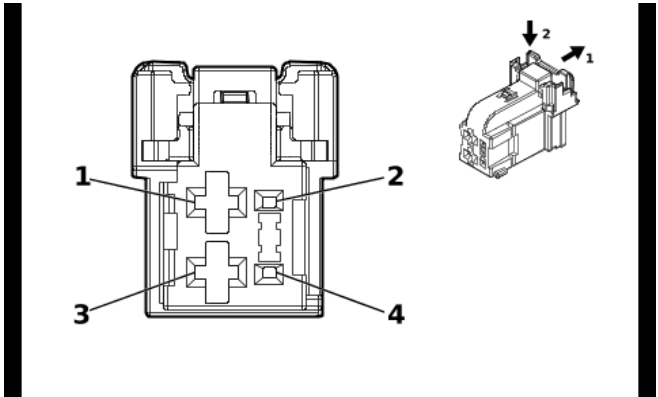
**Terminal Part Information**

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

**K38 Chassis Control Module (G93/G94)**

| Pin     | Size | Color   | Circuit | Function                                       | Terminal Type ID | Option |
|---------|------|---------|---------|------------------------------------------------|------------------|--------|
| 1 - 5   | —    | —       | —       | Not Occupied                                   | —                | —      |
| 6       | 0.5  | VT / WH | 639     | Run/Crank Ignition 1 Voltage                   | II               | —      |
| 7 - 12  | —    | —       | —       | Not Occupied                                   | —                | —      |
| 13      | 0.5  | YE / GN | 7122    | Axle Differential Lock Switch Signal           | II               | —      |
| 14 - 31 | —    | —       | —       | Not Occupied                                   | —                | —      |
| 32      | 0.5  | VT / GY | 7117    | Front Axle Differential Lock Indicator Control | II               | —      |
| 33      | 0.75 | VT / WH | 7256    | Front Differential Lock Actuator Control       | II               | —      |
| 34      | 0.5  | BU / YE | 4979    | AUTOSAR CAN Bus [+] 2 Serial Data              | II               | —      |
| 35      | 0.5  | BU / YE | 4979    | AUTOSAR CAN Bus [+] 2 Serial Data              | II               | —      |
| 36      | 0.5  | WH      | 4978    | AUTOSAR CAN Bus [-] 2 Serial Data              | II               | —      |
| 37      | 0.5  | WH      | 4978    | AUTOSAR CAN Bus [-] 2 Serial Data              | II               | —      |
| 38      | 0.5  | YE      | 7115    | Rear Axle Differential Lock Indicator Control  | II               | —      |
| 39 - 43 | —    | —       | —       | Not Occupied                                   | —                | —      |
| 44      | 0.75 | GY / BK | 7253    | Rear Differential Lock Actuator Low Control    | II               | —      |
| 45 - 49 | —    | —       | —       | Not Occupied                                   | —                | —      |
| 50      | 0.75 | VT / BN | 7258    | Rear Differential Lock Actuator Control        | II               | —      |
| 51 - 59 | —    | —       | —       | Not Occupied                                   | —                | —      |
| 60      | 0.75 | WH / BK | 7254    | Front Differential Lock Actuator Low Control   | II               | —      |
| 61 - 64 | —    | —       | —       | Not Occupied                                   | —                | —      |
| 65      | 1.5  | BK      | 1850    | Ground                                         | I                | —      |
| 66      | 1.5  | RD / BN | 5940    | Battery Positive Voltage                       | I                | —      |

M56P Front Seat Recliner Actuator - Passenger



5410027

Connector Part Information

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

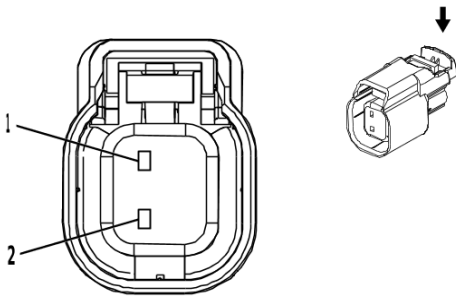
Terminal Part Information

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

M56P Front Seat Recliner Actuator - Passenger

| Pin | Size | Color   | Circuit | Function                                      | Terminal Type ID | Option |
|-----|------|---------|---------|-----------------------------------------------|------------------|--------|
| 1   | 1.5  | GN      | 76      | Passenger Seat Recline Motor Forward Control  | I                | —      |
| 2   | —    | —       | —       | Not Occupied                                  | —                | —      |
| 3   | 1.5  | BU / BN | 77      | Passenger Seat Recline Motor Rearward Control | I                | —      |
| 4   | —    | —       | —       | Not Occupied                                  | —                | —      |

Q17C Fuel Injector 3 (L84/L87)



2792100

Connector Part Information

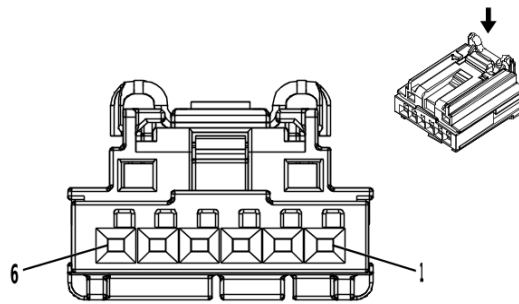
Harness Type: Fuel Injector Wiring Harness - Bank 1  
OEM Connector: 13581410  
Service Connector: Service by Harness - See Part Catalog  
Description: 2-Way F 1.5 Series, Sealed( BK)

Terminal Part Information

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

Q17C Fuel Injector 3 (L84/L87)

| Pin | Size | Color   | Circuit | Function                                             | Terminal Type ID | Option |
|-----|------|---------|---------|------------------------------------------------------|------------------|--------|
| 1   | 0.75 | GN / GY | 4903    | Direct Fuel Injector High Voltage Supply Cylinder 3  | I                | —      |
| 2   | 0.75 | GN      | 4803    | Direct Fuel Injector High Voltage Control Cylinder 3 | I                | —      |

**S64D Front Seat Adjuster Switch - Driver (A45)**

3960313

**Connector Part Information**

Harness Type: Front Seat Wiring Harness - Driver

OEM Connector: 2035363-4

Service Connector: Service by Harness - See Part Catalog

Description: 6-Way F 0.64 Generation Y Series( BK)

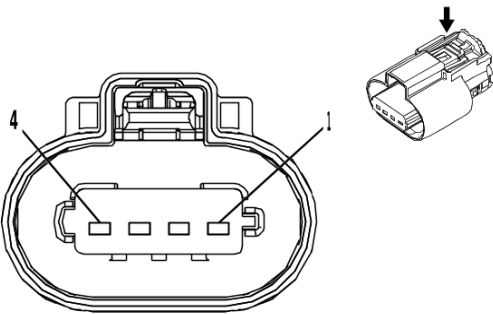
**Terminal Part Information**

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

**S64D Front Seat Adjuster Switch - Driver (A45)**

| Pin | Size        | Color   | Circuit | Function                                              | Terminal Type ID | Option |
|-----|-------------|---------|---------|-------------------------------------------------------|------------------|--------|
| 1   | 0.5         | RD / BN | 2240    | Battery Positive Voltage                              | I                | —      |
| 2   | —           | —       | —       | Not Occupied                                          | —                | —      |
| 3   | 0.5<br>0.35 | GN / GY | 3758    | Driver Seat Adjuster Memory Module LIN Bus 2          | I                | A45    |
|     |             | GN / GY | 3758    | Driver Seat Adjuster Memory Module LIN Bus 2          | I                | - A45  |
| 4   | 0.5         | BK      | 1550    | Ground                                                | I                | —      |
| 5   | 0.5         | BU / YE | 2818    | Driver Seat Auxiliary Adjustment Switch Signal        | I                | —      |
| 6   | 0.5         | BK / VT | 2817    | Auxiliary Driver Seat Adjustment Switch Low Reference | I                | —      |

T8G Ignition Coil 7 (L84/L87)



3240115

Connector Part Information

Harness Type: Engine Wiring Harness  
OEM Connector: 13863211  
Service Connector: Service by Harness - See Part Catalog  
Description: 4-Way F 1.5 MX Series, Sealed( BK)

Terminal Part Information

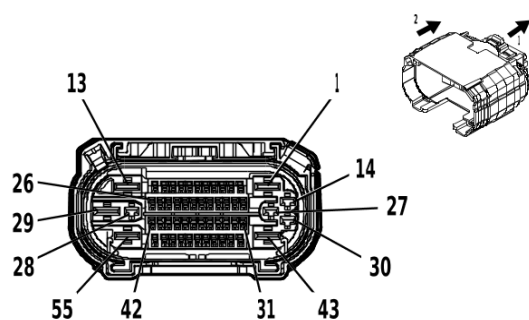
| Terminal Type ID | Terminated Lead | Diagnostic Test Probe | Terminal Removal Tool |
|------------------|-----------------|-----------------------|-----------------------|
| I                | Not required    | J-35616-14 (GN)       | No Tool Required      |
| II               | Not required    | J-35616-2A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

T8G Ignition Coil 7 (L84/L87)

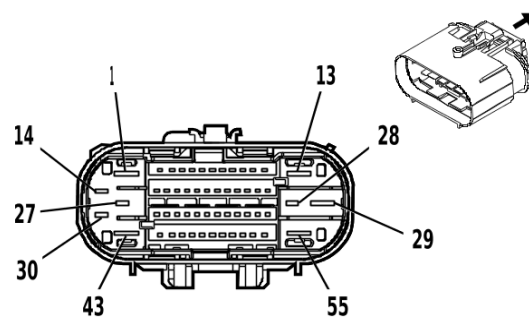
| Pin | Size | Color   | Circuit | Function                                     | Terminal Type ID | Option |
|-----|------|---------|---------|----------------------------------------------|------------------|--------|
| 1   | 1    | BK      | 6150    | Engine Odd Bank Ground                       | II               | —      |
| 2   | 0.5  | BK / BU | 2129    | Ignition Control Low Reference Bank 1        | I                | —      |
| 3   | 0.5  | GN / GY | 2127    | Ignition Control 7                           | I                | —      |
| 4   | 1    | VT / BU | 5291    | Powertrain Main Relay Fused Supply Voltage 2 | II               | —      |

**X125 Engine Wiring Harness to Body Wiring Harness (L84/L87) (cont'd)**

| Pin     | Size | Color   | Circuit | Terminal Type ID | Option | Function                                          | Pin     | Size | Color   | Circuit | Terminal Type ID | Option |
|---------|------|---------|---------|------------------|--------|---------------------------------------------------|---------|------|---------|---------|------------------|--------|
| 7       | 0.5  | BU / BK | 4977    | III              | —      | AUTOSAR CAN Bus [+] 3 Serial Data                 | 7       | 0.5  | BU / BK | 4977    | VIII             | —      |
| 8       | 0.5  | WH / RD | 1164    | IV               | —      | Accelerator Pedal Position 5V Reference 1         | 8       | 0.35 | WH / RD | 1164    | VIII             | —      |
| 9       | 0.5  | BK / BU | 1271    | IV               | —      | Accelerator Pedal Position Low Reference 1        | 9       | 0.35 | BK / BU | 1271    | VIII             | —      |
| 10      | 0.5  | YE / WH | 1161    | IV               | —      | Accelerator Pedal Position Signal 1               | 10      | 0.35 | YE / WH | 1161    | VIII             | —      |
| 11      | 0.5  | GN / WH | 1162    | IV               | —      | Accelerator Pedal Position Signal 2               | 11      | 0.35 | GN / WH | 1162    | VIII             | —      |
| 12 - 14 | —    | —       | —       | —                | —      | Not Occupied                                      | 12 - 14 | —    | —       | —       | —                | —      |
| 15      | 0.5  | BN / RD | 1274    | IV               | —      | Accelerator Pedal Position 5V Reference 2         | 15      | 0.35 | BN / RD | 1274    | VIII             | —      |
| 16      | 0.5  | YE      | 4063    | III              | —      | Hood Status A Signal                              | 16      | 0.5  | YE      | 4063    | VIII             | —      |
| 17      | 0.5  | VT / GN | 4320    | III              | —      | Powertrain Sensor Bus Enable                      | 17      | 0.5  | VT / GN | 4320    | VIII             | —      |
| 18      | 0.5  | WH / RD | 480     | III              | —      | Engine Control Vehicle Sensors 5 Volt Reference 1 | 18      | 0.35 | WH / RD | 480     | VIII             | —      |
| 19      | —    | —       | —       | —                | —      | Wait To Start Indicator Control                   | 19      | 0.35 | GN / BN | 507     | VIII             | —      |
| 20      | 0.5  | WH / GN | 5380    | III              | —      | Brake Position Sensor Signal                      | 20      | 0.35 | WH / GN | 5380    | VIII             | —      |
| 21      | —    | —       | —       | —                | —      | Not Occupied                                      | 21      | —    | —       | —       | —                | —      |
| 22      | 0.5  | BK / VT | 1272    | IV               | —      | Accelerator Pedal Position Low Reference 2        | 22      | 0.35 | BK / VT | 1272    | VIII             | —      |
| 23      | 0.5  | BK / GY | 626     | III              | —      | Engine Control Vehicle Sensors Low Reference 1    | 23      | 0.5  | BK / GY | 626     | VIII             | —      |
| 24      | 0.5  | WH / BU | 6311    | III              | —      | Cruise/ETC/TCC Brake Signal                       | 24      | 0.5  | WH / BU | 6311    | VIII             | —      |
| 25      | 0.5  | BU / GY | 636     | III              | —      | Ambient Air Temperature Sensor Signal             | 25      | 0.5  | BU / GY | 636     | VIII             | —      |

**X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07)**

4992168



4993301

**Connector Part Information**

Harness Type: Front Floor Console Wiring Harness  
 OEM Connector: 35016652  
 Service Connector: Service by Harness - See Part Catalog  
 Description: 55-Way F 1.2 OCS, 2.8, 6.3 CTS Series,  
 Sealed( BK)

**Connector Part Information**

Harness Type: Body Wiring Harness  
 OEM Connector: 35205173  
 Service Connector: 84727364  
 Description: 55-Way M 1.2 OCS, 2.8, 6.3 CTS Series,  
 Sealed( BK)

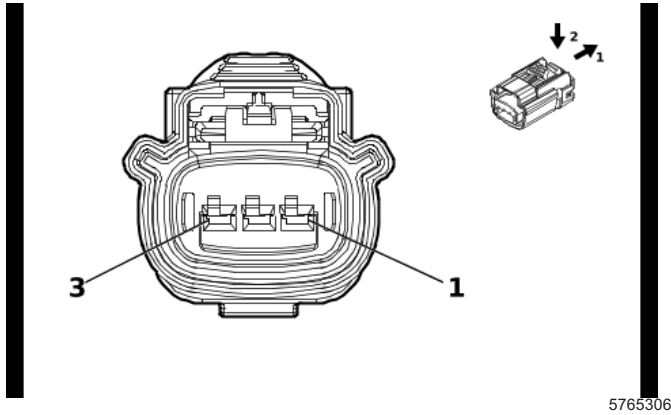
**Terminal Part Information**

| Terminal Type ID | Terminated Lead | Diagnostic Test Probe | Terminal Removal Tool |
|------------------|-----------------|-----------------------|-----------------------|
| I                | Not required    | J-35616-16 (L-GN)     | No Tool Required      |
| II               | Not required    | J-35616-35 (VT)       | No Tool Required      |
| III              | Not required    | J-35616-43 (RD)       | No Tool Required      |
| IV               | 84847992        | J-35616-32 (OG)       | J-38125-36            |
| V                | 84867140        | J-35616-13 (BU)       | J-38125-215A          |
| VI               | 84867141        | J-35616-13 (BU)       | J-38125-215A          |
| VII              | 84992391        | J-35616-5 (PU)        | J-38125-215A          |

**X227 Front Floor Console Wiring Harness to Body Wiring Harness (D07)**

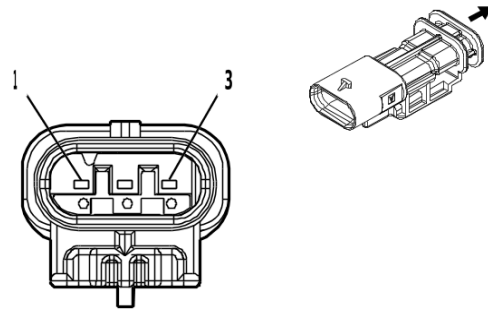
| Pin   | Size | Color      | Circuit | Terminal Type ID | Option | Function                                | Pin   | Size | Color      | Circuit | Terminal Type ID | Option |
|-------|------|------------|---------|------------------|--------|-----------------------------------------|-------|------|------------|---------|------------------|--------|
| 1 - 2 | —    | —          | —       | —                | —      | Not Occu-<br>pied                       | 1 - 2 | —    | —          | —       | —                | —      |
| 3     | 0.35 | WH         | 4986    | I                | —      | AUTOSAR<br>CAN Bus [-]<br>1 Serial Data | 3     | 0.35 | WH         | 4986    | V                | —      |
| 4     | 0.35 | BU         | 4987    | I                | —      | AUTOSAR<br>CAN Bus [+]<br>1 Serial Data | 4     | 0.35 | BU         | 4987    | V                | —      |
| 5     | 0.35 | VT /<br>WH | 239     | I                | —      | Run/Crank<br>Ignition 1<br>Voltage      | 5     | 0.5  | VT /<br>WH | 239     | V                | —      |
| 6     | 0.35 | WH         | 4986    | I                | —      | AUTOSAR<br>CAN Bus [-]<br>1 Serial Data | 6     | 0.5  | WH         | 4986    | V                | —      |
| 7     | 0.35 | BU         | 4987    | I                | —      | AUTOSAR<br>CAN Bus [+]<br>1 Serial Data | 7     | 0.5  | BU         | 4987    | V                | —      |
| 8     | 0.35 | RD /<br>WH | 5440    | I                | —      | Battery Posi-<br>tive Voltage           | 8     | 0.5  | RD /<br>WH | 5440    | V                | —      |

## X618 Engine Wiring Harness to Active Grille Air Shutter Actuator Wiring Harness (VTI/WMI)



### Connector Part Information

Harness Type: Engine Wiring Harness  
 OEM Connector: 15514762  
 Service Connector: 85535179  
 Description: 3-Way F 1.5 YESC Series, Sealed( BK)



### Connector Part Information

Harness Type: Active Grille Air Shutter Actuator Wiring Harness  
 OEM Connector: Not Available  
 Service Connector: Service by Harness - See Part Catalog  
 Description: 3-Way M ( BK)

### Terminal Part Information

| Terminal Type ID | Terminated Lead | Diagnostic Test Probe | Terminal Removal Tool |
|------------------|-----------------|-----------------------|-----------------------|
| I                | Not required    | J-35616-2A (GY)       | No Tool Required      |
| II               | Not required    | J-35616-3 (GY)        | No Tool Required      |

## X618 Engine Wiring Harness to Active Grille Air Shutter Actuator Wiring Harness (VTI/WMI)

| Pin | Size            | Color          | Circuit            | Terminal Type ID | Option                                               | Function                        | Pin | Size            | Color          | Circuit            | Terminal Type ID | Option                                               |
|-----|-----------------|----------------|--------------------|------------------|------------------------------------------------------|---------------------------------|-----|-----------------|----------------|--------------------|------------------|------------------------------------------------------|
| 1   | 0.5             | VT / BU        | 5705               | I                | —                                                    | Powertrain Main Relay Control   | 1   | 0.5             | VT / BU        | 5705               | II               | —                                                    |
| 2   | 0.5             | GN / VT        | 4621               | I                | —                                                    | Engine Control Module LIN Bus 1 | 2   | 0.5             | GN / VT        | 4621               | II               | —                                                    |
| 3   | 1<br>0.5<br>0.5 | BK<br>BK<br>BK | 450<br>450<br>6550 | I<br>I<br>I      | ( L84/ L87) + ( VTI/ WMI)<br>L3B+ ( VTI/ WMI)<br>LM2 | Ground<br>Ground<br>Ground      | 3   | 1<br>0.5<br>0.5 | BK<br>BK<br>BK | 450<br>450<br>6550 | II<br>II<br>II   | ( L84/ L87) + ( VTI/ WMI)<br>L3B+ ( VTI/ WMI)<br>LM2 |