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Overview

BODY CONTROL SYSTEM DESCRIPTION AND OPERATION

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

POWER MODE MASTER

This vehicle’s BCM functions as the Power Mode Master (PMM). The ignition switch is a low current switch with multiple discrete ignition switch signals to the PMM for determination the power mode that will be sent over the serial data circuits to the other modules that need this information, and so the PMM will activate relays and other direct outputs of the PMM as needed.

SERIAL DATA GATEWAY

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

One example of this necessary communication is the communication between the ECM/PCM which is high speed serial data and TDM which is low speed serial data. If these modules can not exchange information, the vehicle will not start.

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

(continued on next page)
BODY CONTROL MODULE

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

- Antilock Brake System (ABS)
- Automatic Day-Night Mirror
- Cruise Control System
- Electrical Power Management (EPM)
- Exterior Lighting--Refer to
- Horn System
- HVAC
- Instrument Cluster Indicator Control
- Interior Lighting
- Power Door Lock System
- Rear Window Defogger System
- Redundant Steering Wheel Controls
- Remote Function Actuation (RFA) Control
- Retained Accessory Power (RAP)
- Shift Lock Control System
- Starting System
- Supplemental Inflatable Restraint (SIR) System
- Theft Deterrent
- Tire Pressure Monitor (TPM) System
- Wiper/Washer System Functions
DataLink Communications Description and Operation

CIRCUIT DESCRIPTION
The communication among control modules is performed through the high speed GMLAN serial data circuits and the low speed GMLAN serial data circuit. The modules that need real time communication are attached to the High Speed GMLAN network. The Body Control Module (BCM) is the gateway between the high and low speed networks. Refer to Body Control System Description and Operation for more information about the gateway.

Signal supervision is the process of determining whether an expected signal is being received or not. Some messages are sent on a periodic basis and are interpreted as a heartbeat of a device. If such a signal is lost, the signal supervision part of the software will set a no communication DTC (U. code) against the missing device. This code is mapped on the Tech 2 screen as a code against the physical device. A lost communication DTC typically is set in modules other than the module with a communication failure.

GMLAN HIGH-SPEED CIRCUIT DESCRIPTION
The Data Link Connector (DLC) allows a scan tool to communicate with the high speed GMLAN serial data circuit. The serial data is transmitted on 2 twisted wires that allow speed up to 500 Kb/s. The twisted pair is terminated with two 120-ohm resistors, one is internal to the Engine Control Module (ECM) and the other is after the Electronic Brake Control Module (EBCM), or if equipped, the suspension control module. The high speed GMLAN is a differential bus. The high speed GMLAN serial data bus (+) and high speed GMLAN serial data (-) are driven to opposite extremes from a rest or idle level. The idle level, which is approximately 2.5 volts, is considered recessive transmitted data and is interpreted as a logic 1. Driving the lines to their extremes, adds 1 volt to the high speed GMLAN serial data bus (+) and subtracts 1 volt from the high speed GMLAN serial data bus (-) wire. If a communication signal is lost, the application will set a no communication code against the respective control module. This code is mapped on the Tech 2 screen as a code against the physical device. Note: a loss of serial data DTC does not represent a failure of the module that the code is set in. The high speed GMLAN serial data allows communication between the BCM, ECM, Transmission Control Module (TCM), Vehicle Communication Interface Module (VCIM), 4WD control module, EBCM, and the suspension control module depending on RPO.

(continued on next page)
DataLink Communications Description and Operation (cont'd)

GMLAN LOW-SPEED CIRCUIT DESCRIPTION

The Data Link Connector (DLC) allows a scan tool to communicate with the low speed GMLAN serial data circuit. The serial data is transmitted over a single wire to the appropriate control modules. Under normal vehicle operating conditions, the speed of the buss is 33.33 Kb/s. This protocol produces a simple pulse train sent out over the GMLAN low speed serial data bus. When a module pulls the buss high, 5 volts, this creates a logic state of 0 on the buss. When the buss is pulled low, 0 volts, it is translated as a logic state of 1. To wake the control modules connected to the GMLAN low speed serial data buss, a wake up signal is sent out over the buss. Modules connected to the GMLAN low speed buss can be part of a virtual network as described in GMLAN High Speed Circuit Description above. The modules on the GMLAN low speed serial data buss are connected to the buss using several splice or "star" connectors separating groups of modules. The following list states the splices and modules connected to the low speed serial data circuits:

I/P Splice

- Data Link Connector (DLC), connected only to the Instrument Panel (I/P) splice.
- Amplifier (Amp)
- Rear Seat Audio (RSA)
- Vehicle Communication Interface Module (VCIM)
- Digital Radio Receiver (DRR)
- Inside Rearview Mirror Module (ISRVM), connected through the mid I/P fuse block
- Instrument Panel Cluster (IPC)
- Body Control Module (BCM)
- Theft Deterrent Module (TDM)
- Heater Ventilation and Air Conditioning (HVAC)
- Radio
- Driver Door Switch (DDS), connected through the left I/P fuse block
- Passenger Door Switch (PDS), connected through the right I/P fuse block

(continued on next page)
Body Splice

- Articulating Running Board Module (ARBM)
- Ultrasonic Park Assist (UPA)
- Memory Seat Module (MSM)
- Liftgate Module (LGM)
- Passenger Presence System (PPS)
- Inflatable restraint vehicle Rollover Sensor (ROS)
- Inflatable restraint Sensing and Diagnostic Module (SDM)

Serial Data Reference

The scan tool communicates over the various busses on the vehicle. When a scan tool is installed on a vehicle, the scan tool will try to communicate with every module that could be optioned into the vehicle. If an option is not installed on the vehicle, the scan tool will display No COMM for that option's specific control module.

In order to avert misdiagnoses of No Communication with a specific module, refer to Data Link References for a list of modules, the busses they communicate with, and the Regular Production Option (RPO) codes for a specific module.
Electric Power Management

The Electric Power Management (EPM) is used to monitor and control the charging system and alert the driver of possible problems within the charging system. The EPM system makes the most efficient use of the generator output, improves the battery State Of Charge (SOC), extends battery life.

The idle boost operation is a means of improving generator performance during a low voltage or low battery SOC condition.

Idle boost is activated in incremental steps, idle boost 1 must be active before idle boost 2 can be active. The criteria used by the Body Control Module (BCM) to regulate EPM are outlined below.

<table>
<thead>
<tr>
<th>Function</th>
<th>Battery Temperature Calculation</th>
<th>Battery Voltage Calculation</th>
<th>Amp-hour Calculation</th>
<th>Action Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idle Boost 1 Start</td>
<td>Less Than -15°C (+5°F)</td>
<td>Less Than 13 V</td>
<td>--</td>
<td>First Level Idle Boost Requested</td>
</tr>
<tr>
<td>Idle Boost 1 Start</td>
<td>--</td>
<td>--</td>
<td>Battery has a net loss greater than 0.6 AH</td>
<td>First Level Idle Boost Requested</td>
</tr>
<tr>
<td>Idle Boost 1 Start</td>
<td>--</td>
<td>Less Than 10.9 V</td>
<td>--</td>
<td>First Level Idle Boost Requested</td>
</tr>
<tr>
<td>Idle Boost 1 End</td>
<td>Greater Than -10°C (+5°F)</td>
<td>Greater Than 12 V</td>
<td>Battery has a net loss less than 0.2 AH</td>
<td>First Level Idle Boost Request Cancelled</td>
</tr>
<tr>
<td>Idle Boost 2 Start</td>
<td>--</td>
<td>--</td>
<td>Battery has a net loss greater than 1.6 AH</td>
<td>Second Level Idle Boost Requested</td>
</tr>
<tr>
<td>Idle Boost 2 Start</td>
<td>--</td>
<td>Less Than 10.9 V</td>
<td>--</td>
<td>Second Level Idle Boost Requested</td>
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<tr>
<td>Idle Boost 2 End</td>
<td>--</td>
<td>Greater Than 12 V</td>
<td>Battery has a net loss less than 0.8 AH</td>
<td>Second Level Idle Boost Request Cancelled</td>
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<tr>
<td>Idle Boost 3 Start</td>
<td>--</td>
<td>--</td>
<td>Battery has a net loss of 10.0 AH</td>
<td>Third Level Idle Boost Requested</td>
</tr>
<tr>
<td>Idle Boost 3 End</td>
<td>--</td>
<td>Greater Than 12 V</td>
<td>Battery has a net loss of less than 6 AH</td>
<td>Third Level Idle Boost Request Cancelled</td>
</tr>
</tbody>
</table>
Power Mode – Description and Operation

Serial Data Power Mode Master

Power to many of this vehicles circuits is controlled by the module that is designated the Power Mode Master (PMM). This vehicle’s PMM is the Body Control Module (BCM). The ignition switch is a low current switch with multiple discrete ignition switch signals to the PMM for determination of the power mode that will be sent over the serial data circuits to the other modules that need this information. The PMM will also activate relays and other direct outputs of the PMM as needed. The PMM determines which power mode (Off, Accessory, Run, Crank Request) is required, and reports this information to other modules via serial data. Modules which have switched voltage inputs may operate in a default mode if the PMM serial data message does not match what the individual module can see from its own connections.

The PMM receives ignition switch signals to identify the operators desired power mode. The PMM Power Mode Parameters table below illustrates the correct state of these input parameters (circuits) in correspondence to the ignition switch position:

<table>
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<tr>
<th>PMM Power Mode Parameters</th>
<th>Power Mode Transmitted</th>
<th>Ignition Off/Run/Crank (Run Crank Ignition 1 Voltage Circuit)</th>
<th>Ignition Accessory/Run (Accessory Voltage Circuit)</th>
<th>Ignition Run/Crank (Ignition 1 Voltage Circuit)</th>
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<td>Off Key Out</td>
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<td>Off Key In</td>
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<td>Inactive</td>
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<td>Accessory</td>
<td>Accessory</td>
<td>Key Out/ACC</td>
<td>Active</td>
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<td>Run</td>
<td>Run</td>
<td>Run</td>
<td>Active</td>
<td>Active</td>
</tr>
<tr>
<td>Start</td>
<td>Crank Request</td>
<td>Crank</td>
<td>Inactive</td>
<td>Active</td>
</tr>
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</table>

Relay Controlled Power Mode

The BCM uses the discrete ignition switch inputs Run/Crank Ignition 1 Voltage, Accessory Voltage, and Ignition 1 Voltage, to distinguish the correct power mode. The BCM, after determining the desired power mode, will activate the appropriate relays for that power mode.

The RAP relay remains on for a timed period after the Ignition key is removed. Refer to Retained Accessory Power (RAP) Description and Operation for more information on the RAP function.

(continued on next page)
Power Mode – Description and Operation (cont'd)

BCM Awake/Sleep States

The Body Control Module (BCM) is able to control or perform all of the BCM functions in the awake state. The BCM enters the sleep state when active control or normal monitoring of system functions has stopped and a time limit has passed. The BCM must detect certain wake-up inputs before entering the awake state. The BCM monitors for these inputs during the sleep state.

The BCM will enter the awake state if any of the following wake-up inputs are detected:

- Activity on the serial data line
- Detection of a battery reconnect
- Any door open signal
- Headlamps ON
- Key-in-ignition
- Ignition ON
- Park lamps ON
- Keyless entry or remote start message

The BCM will enter a sleep state when all of the following conditions exist:

- The ignition switch is OFF, key out.
- No activity exists on the serial data line.
- No outputs are commanded.
- No delay timers are actively counting.
- No wake-up inputs are present.

If all these conditions are met, the BCM will enter a low power or sleep condition.
Retained Accessory Power (RAP) – Description and Operation

Serial Data Control of Retained Accessory Power (RAP)

The modules receive the power mode message from the Body Control Module (BCM) over the serial data circuits, indicating when the Retained Accessory Power (RAP) power mode is current. The BCM monitors the ignition switch position, battery condition and passenger compartment doors status to determine whether RAP should be initiated. The modules then support the operation of the systems under their control as required by their RAP power mode operation. Components and systems that are active in RAP are also activated anytime the ignition is in any position other than OFF.

The BCM sends a serial data power mode message ending the RAP function when one of the following conditions is met:

- The BCM receives an input indicating the opening of any passenger compartment door after the ignition key is out of the ignition.

  **Important:** The only door that will turn off the radio during RAP is the driver door.

  This is a function of the radio and will still turn off after the time limit.

- The BCM internal timer for the RAP expires after approximately 10 minutes.
- The BCM detects a decrease in battery capacity below a prescribed limit.

Relay Control of Retained Accessory Power (RAP)

The BCM keeps the Retained Accessory Power (RAP) relay energized during all power modes, except Off-Awake and Crank. The relay is also energized for approximately 10 minutes after shutting the ignition OFF and removing the key, providing no door is opened. The BCM will de-energize the RAP relay at the same time as the serial data message is sent to end RAP.

The devices powered by the accessory relay during the RAP power mode are the sunroof, power window switches and Brake Transmission Shift Interlock (BTSI)/Park Lock.
Bulletin #79

The all new PTO Subsystem Factory Options include all components & wiring for a tested functional system (speed control). Two Bulletins are offered to describe the system.

Bulletin #79 provides a brief description

The bulletin shows the location of the following components included with the option:
1. New Driver control switch.
2. New PTO module
3. New 16-way connector for user interface.

The bulletin contains the following sections
1. System Overview
2. Detailed Functional Description
3. Standard vs. Optional Features

The link to Bulletin #79 is

Note: These bulletins address the "All New," not the "Classic" C/K truck.

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**Bulletin #80**

Bulletin #80 is a complete Operating Description and Application Guide. The Table of contents is as follows:

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The Link to Bulletin #80 is:

PTO

Engine rpm is adjusted with an IP mounted activation switch. There are two engine rpm selections available which are preset at the factory. Engine RPM settings and PTO modes can be modified at the dealer with GM Tech tool. PTO price includes Switch, PTO Module, DIC messages, dedicated wiring for easy interface and, power-take-off gear in transmission. PTO access is available on driver side only, (K34 Cruise Control is not required, N/A with UF3 high idle). PTO can’t be added later if not ordered.

PTO Controls Location

The PTO switch is mounted in the right side of the center instrument panel as part of the factory-installed PTO package. The PTO switch is a four position rocker type.

UF3 – Fast Idle

- Fast Idle Option (UF3) is not available on 2007 trucks
- UF3 cannot be retrofitted on 2007 trucks – no kits are available
- UF3 will be available on some 2008 trucks
- To obtain Fast Idle capability on 2008 trucks, you must order:
  1. 2500/3500 Series – UF3 is not available on 1500 Series trucks
  2. 6.0L (LY6) Gas Engine or 6.6L (LMM) Diesel Engine
  3. Cruise Control Option (K34)
  4. Fast Idle Option (UF3)
- UF3 cannot be retrofitted on 2008 trucks – no kits are available

For complete information about this option, see GM Upfitter Bulletin #82 at:

For complete information about this option, see GM Upfitter Bulletin #80 at:
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**Emergency Roof-Mounted Lamp Switch**
This provision includes an over head console mounted switch, a relay, and wiring which terminates at the roof as coiled blunt cut wires – Option TRW. There are two blunt cut 12-gauge (3.0 mm²) wires, one is Dark Green (roof-mounted lamp power), it is controlled by the over head console-mounted switch through the relay, the other is Black (ground). The Dark Green power wire is protected by the 30-Amp S/ROOF fuse #33 which is located in the Underhood Electrical Center.

**VYU Generators**
- On 1500/2500 Series trucks equipped with Gas Engines, the VYU option provides upgrade to a larger 160 amp output generator
- On 2500/3500 Series trucks equipped with Diesel Engines, the VYU option provides upgrade to dual 125 amp generators
- Refer to the Generator Chart on page A-18

**Accessory Harness Grommet**
Trucks will come equipped with a predrilled 42mm pass-through hole located on the dash panel on the left hand side of the vehicle. The hole will be sealed with a grommet (see Figure 3) which can be used by the upfitter for pass-through wiring. To use the grommet (part# 15336702), the upfitter slices off the tape tab end (in engine compartment) of the grommet and then spreads it open to pass wiring through.

**Forward Lamp Harness In-Line Connectors**
The turn signals are driven from the BCM. Changes in turn signal current may require the use of additional relays. The Studs on the UBEC can be used for battery power for the relays. This wire requires a separate in-line fuse.

The Chevrolet (X88) and GMC (Z88) utilities have different forward lamps.
- Chevrolet forward lamp wiring harness will have a set of mating eight cavity connectors on both the left and right hand side of the vehicle. The upfitter will be able to disconnect the in-line connectors which will allow interfacing with the forward lamp circuits (Front Parklamp, Turn Signal and DRL). The headlamp circuits may be accessed from the headlamp connectors.
- GMC lamp wiring harness will have a set of mating 3 cavity connectors on both the left and right hand side of the vehicle for Turn Signal and Park Lamps. High and Low beams do not have an in-line connector. The VYU options adds an additional set of mating 3 cavity connectors on both the left and right hand side of the vehicle for High and Low beams.

The Chevrolet (X88) and GMC (Z88) pickups have the same forward lamps.
- These are similar to the Chevrolet utility. The difference is the utilities have a separate Daytime Running Lamp (DRL). The Pickups use a reduced intensity Low Beam Headlamp for DRL. Both the pickups and the Chevrolet utility use the same eight cavity connectors for the forward lamp wiring. The difference is the pickups have no connection for the DRL.

**Backup Lamp Power Feed**
A backup lamp power feed is provided at the rear of the vehicle through the trailer wiring harness as a standard feature. This circuit is protected by the 10-Amp TRLR B/U fuse which is located in the Under hood Electrical Center. On vehicles with Light Duty Trailer Wiring this circuit can be accessed through the Light Green trailer wire. This wire is located in pin A of the trailer connector at the rear of the vehicle (see figure 6). On vehicles with Heavy Duty Trailer Wiring option, this connector is mated with a socket at the rear of the vehicle (see figure 7).
Battery power is supplied through a 30 amp fuse to a wiring harness located in the roof. Power is controlled with a switch located in the overhead console. The customer or vehicle upfitter must complete the installation to an added accessory such as an emergency beacon lamp.

Maximum rated electrical load is 21 amps (250 watts). The added electrical requirements must not exceed 21 amps (250 watts). Running the accessory for long periods of time with the engine off may run the battery down.

**Installation Instructions — Emergency Vehicle Roof Panel Lamp**

Wiring to the accessory can be done by either directly connecting the wire in the roof to the accessory (Option A) or by using Wiring Harness Package part number 12150250 obtained from GM Service Parts (Option B).

---

A. 25.39 inches (645 mm)
B. 17.32 inches (440 mm)
C. 3.94 inches (100 mm)
D. Roof Centerline
E. Roof Edge

*Emergency Vehicle Roof Panel Lamp (continued on next page)*
Emergency Vehicle Roof Panel Lamp (continued from previous page)

1. Disconnect the battery negative (-) cable at the battery.
2. Make the electrical connections using either option A or option B.

Notice: Pulling the wiring harness through a panel hole that has sharp edges may cause damage to the wire and/or wire insulation. Remove sharp edges from the panel hole before pulling the wire through it.

Option A: Roof Wires Directly to Accessory

1. Drill a 3/8 inch to 1/2 inch (10 to 13 mm) hole in the outer roof panel in the area shown in the illustration. The hole should only go through the outer panel. Remove all sharp edges from the drilled hole.
2. Remove the inside overhead console access panel/lamp lenses.
3. The accessory harness is coil tied to the passenger’s side of the vehicle at the console inner bracket.
4. Cut the tape holding the harness coil.
5. As one person watches the roof hole from the outside for the end of the harness, a second person from the inside of the vehicle should snake the harness toward the hole.
6. Pull out the wiring harness being careful to avoid scraping the insulation on the edge of the hole.
7. Extend the wiring harness to the accessory.
8. Connect the dark green wire to the accessory hot terminal.
9. Connect the black wire to the accessory ground terminal.
10. Cover the hole in the roof with a durable sealant such as silicone rubber sealer.
11. Reinstall the overhead console access panel/lamp lenses.

Option B: Use Wiring Harness Package 12150250.
Obtain from GM Service Parts through the GM Dealership

1. Drill a 1.25 inch (32 mm) hole in the outer roof panel in the area shown in the illustration. The hole should only go through the outer panel. Remove all sharp edges from the drilled hole.
2. Remove the inside overhead console access panel/lamp lenses.
3. The accessory harness is coil tied to the passenger’s side of the vehicle at the console inner bracket.
4. Cut the tape holding the harness coil.
5. As one person watches the roof hole from the outside for the end of the harness, a second person from the inside of the vehicle should snake the harness toward the hole.
6. Pull out the wiring harness being careful to avoid scraping the insulation on the edge of the hole.
7. Cut the wire to length. Install terminals to wire ends and insert into the connector. The brown wire goes to cavity A and the black wire in cavity B. Push in the secondary lock to retain the wires.
8. Attach the harness assembly from the package to the accessory. Cover with the supplied conduit for added protection. Connect the orange wire to the accessory hot terminal and the black wire to the ground.
9. Complete the connection from the roof harness to the extension harness. Cover the mated connector with the supplied foam. Push the foam covered connection and excess wire through the roof panel hole.
10. Reinstall the overhead console access panel/lamp lenses.

Emergency Vehicle Roof Panel Lamp (continued on next page)
The auxiliary lamp switch is located on the overhead console.

This switch includes wiring provisions for a dealer or a qualified service center to install an auxiliary roof lamp. When the wiring is connected to an auxiliary roof mounted lamp, pressing the bottom of the switch will activate the lamp and illuminate an indicator light at the bottom of the switch. Pressing the top of the switch again will turn off the roof mounted lamp and indicator.

1. Be sure that the auxiliary lamp switch is off.
2. Reconnect the battery negative cable.
3. Turn the auxiliary lamp switch on. The accessory should now be working. If it is not working, check the connections.
4. After ensuring that the accessory is working properly, install the grommet in the hole. Seal with silicone sealer to prevent water leakage.

**Notice:** Overloading the vehicle’s electrical system may damage your vehicle’s accessories.

Do not overload the vehicle’s system by having unnecessary accessories on at the same time.
Roof Mounted Beacon (TRW)

Option B

A. Black Wire
B. Orange Wire
C. To Roof Mounted Lamp
D. Harness Assembly
E. Grommet (Roof)
F. Foam Insulator (Adhesive-Backed)
G. Harness Connector, Secondary Lock and Terminal
H. Brown Black Wire
I. Vehicle Outer Roof Panel
Maintenance

The circuit is fed from the #2 post on the underhood electrical center and protected by the fuse labeled #2 post located in the electrical center. Always replace the fuse with a 30 amp maxi-fuse.
Generator Usage

<table>
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<tr>
<th>Vehicle Type</th>
<th>Vehicle Series</th>
<th>Options and/or Special Equipment</th>
<th>Engine Cooling Fans</th>
<th>Engine Type</th>
<th>Generator RPO/Make/Model</th>
<th>Generator Output (Amps)</th>
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<td>10</td>
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<td>KG3 / Remy / DR44M</td>
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<td>Engine Driven</td>
<td>Gas</td>
<td>KG1 / Remy / DR44M</td>
<td>160</td>
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<td>10</td>
<td>Base</td>
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<td>Gas</td>
<td>KG1 / Remy / DR44M</td>
<td>145</td>
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<td>125 X 2 = 250</td>
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<td>Diesel</td>
<td>K76 / Bosch / E6 X 2</td>
<td>125 X 2 = 250</td>
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Generator RPO's
- 125 Amp KG7
- 145 Amp KG3
- 160 Amp KW1
- 125 Amp X 2 K76
Accessory Harness Grommet

ACCESSORY HARNESS GROMMET
Part #15336702
VYU Hole Location

15336702: Grommet

Dash Panel
1. Headlamp - High Beam - Right
2. Headlamp - High Beam - Left
3. Headlamp - Left
4. Park/Turn Signal Lamp - Left
5. Daytime Running Lamp (DRL) - Left
6. Fog Lamp - LF
7. Fog Lamp - RF
8. Daytime Running Lamp (DRL) - Right
9. Park/Turn Signal Lamp - Right
10. Headlamp - Right
(1) Fuse Block – Underhood
(2) C103
(3) X100 – 8-way Left Headlamp
(4) Grill
(5) X106 – 8-way Right Headlamp
(6) C105 (T96)
(7) G101
(8) S101
(9) G100
(10) S100
(11) C102 (T96)
X100 Forward Lamp Harness to Left Headlamp Harness (X88-Z75)

| Connector: 8-Way F GT 280 Series, Sealed (BK) |
| O.E.M.: 15326654 |
| Color: BLK |
| Service: 88986254 |

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<td>C</td>
<td>D-GN/WH</td>
<td>711</td>
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<td>E</td>
<td>BN</td>
<td>2509</td>
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<td>BK</td>
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<td>G</td>
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| Connector: 8-Way M GT 280 Series, Sealed (BK) |
| O.E.M.: 15326655 |
| Color: BLK |
| Service: 15306424 |

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<td>C</td>
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<td>D</td>
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<td>--</td>
<td>Not Used</td>
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<tr>
<td>E</td>
<td>BN</td>
<td>--</td>
<td>Left Rear Park Lamps Supply Voltage</td>
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<tr>
<td>F</td>
<td>BK</td>
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<tr>
<td>G</td>
<td>BK</td>
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X106 Forward Lamp Harness to Right Headlamp Harness (X88 or Z75)

Connector: 8-Way F GT 280 Series, Sealed (BK)
O.E.M.: 15326654
Color: BLK
Service: 88986254

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<td>C</td>
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<td>311</td>
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<td>E</td>
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Connector: 8-Way M GT 280 Series, Sealed (BK)
O.E.M.: 15326655
Color: BLK
Service: 15306424

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<td>Ground</td>
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<td>C</td>
<td>L-GN/BK</td>
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<td>E</td>
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<td>—</td>
<td>—</td>
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Headlamp Replacement – Chevrolet Tahoe SUV (X88)

Notice: Refer to Fastener Notice in Cautions and Notices.
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications.

Preliminary Procedure
Remove the grille assembly. Refer to Fascia Grille Replacement

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<tr>
<th>Callout</th>
<th>Component Name</th>
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<tbody>
<tr>
<td>1</td>
<td>Headlamp Screw</td>
</tr>
<tr>
<td></td>
<td><strong>Tighten</strong> 9 N·m (80 lb in)</td>
</tr>
<tr>
<td>2</td>
<td>Headlamp Screw</td>
</tr>
<tr>
<td></td>
<td><strong>Tighten</strong> 2 N·m (18 lb in)</td>
</tr>
<tr>
<td>3</td>
<td>Headlamp Assembly Alignment Tabs</td>
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<td></td>
<td><strong>Tip</strong> Pull to release the tabs on the back of the headlamp assembly</td>
</tr>
<tr>
<td>4</td>
<td>Headlamp Assembly</td>
</tr>
<tr>
<td></td>
<td><strong>Tip</strong> Disconnect the electrical connectors</td>
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Headlamp Bulb Replacement – Chevrolet Tahoe SUV (X88)

**Callout | Component Name**
--- | ---
**Preliminary Procedure**
Remove the headlamp. Refer to Headlamp Replacement
1 | Low Beam Bulb
2 | High Beam Bulb
Front of Vehicle View – GMC Yukon (Z88)

1. Park/Turn Signal Lamp – Right Front
2. Park/Turn Signal Lamp – Left Front
3. Marker Lamp – Left Front
4. Headlamp – Left
5. Fog Lamp – Left Front (T96)
6. Fog Lamp – Right Front (T96)
7. Headlamp – Right
8. Marker Lamp – Right Front
Forward Lighting & Additional Turn Signals – GMC Yukon (Z88)

1. Hot front signal lights are to be functional on the vehicle AND the plow simultaneously. Any relay (left & right) need to be added to the front lamp harness and a single wire would need to be taken back to the plow turn lamp harness.

GMY900 GMC SUV’S
Front Fascia Harnesses GMC Yukon (Z88)

(1) Fuse Block - Underhood
(2) C101 – 3-way Left Front Lamp
(3) C107 (VYU) – 3-way Left Head Lamp
(4) Grill
(5) C108 (VYU) – 3-way Left Head Lamp
(6) C104 – 3-way Right Front Lamp
(7) C105 (T96)

(8) G101
(9) S101
(10) G100
(11) S100
(12) C102 (T96)
(13) C103
### X104 Forward Lamp Harness to Right Front Lamp Harness (Z88)

**Connector:** 3-Way F GT 150 Series, Sealed (BK)
**O.E.M.:** 15326808
**Color:** BLK
**Service:** See Catalog
**Terminal/Tray:** 12191819/8
**Core/Insulation Crimp:** Pins: A-B: 2/A
**Core/Insulation Crimp:** Pins: C: E/A
**Release Tool/Test Probe:** 15315247/J-35616-2A (GY)

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<th>Function</th>
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<td>B</td>
<td>D-BU/WH</td>
<td>1315</td>
<td>Right Front Turn Signal Lamp Supply Voltage</td>
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<td>C</td>
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<td>2609</td>
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**Connector:** 3-Way M GT 150 Series, Sealed (BK)
**O.E.M.:** 15326813
**Color:** BLK
**Service:** 15306377
**Terminal:** TBD
**Core/Insulation Crimp:** TBD
**Core/Insulation Crimp:** TBD
**Release Tool/Test Probe:** TBD

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## X107 Forward Lamp Harness to Forward Lamp Harness (VYU)

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

**O.E.M.:** 15326808

**Color:** BLK

**Service:** See Catalog

<table>
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<td>712</td>
<td>Left Headlamp Low Beam Supply Voltage</td>
</tr>
<tr>
<td>B</td>
<td>BK</td>
<td>250</td>
<td>Ground</td>
</tr>
<tr>
<td>C</td>
<td>D-GN/WH</td>
<td>711</td>
<td>Left Headlamp High Beam Supply Voltage</td>
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</tbody>
</table>

**Connector:** 3-Way M GT 150 Series, Sealed (BK)

**O.E.M.:** 15326813

**Color:** BLK

**Service:** 15306377

<table>
<thead>
<tr>
<th>Pin</th>
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<th>Circuit No.</th>
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<tbody>
<tr>
<td>A</td>
<td>YE</td>
<td>712</td>
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<tr>
<td>B</td>
<td>BK</td>
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<td>Ground</td>
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<tr>
<td>C</td>
<td>D-GN/WH</td>
<td>711</td>
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**X108 Forward Lamp Harness to Forward Lamp Harness (VYU)**

<table>
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<tr>
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<td>Color:</td>
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<td>Right Headlamp Low Beam Supply Voltage</td>
</tr>
<tr>
<td>B</td>
<td>BK</td>
<td>150</td>
<td>Ground</td>
</tr>
<tr>
<td>C</td>
<td>L-GN/BK</td>
<td>311</td>
<td>Right Headlamp High Beam Supply Voltage</td>
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<tr>
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<tbody>
<tr>
<td>A</td>
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<td>Right Headlamp Low Beam Supply Voltage</td>
</tr>
<tr>
<td>B</td>
<td>BK</td>
<td>250</td>
<td>Ground</td>
</tr>
<tr>
<td>C</td>
<td>L-GN/BK</td>
<td>311</td>
<td>Right Headlamp High Beam Supply Voltage</td>
</tr>
</tbody>
</table>
Headlamp Replacement – GMC Yukon SUV (Z88)

**Preliminary Procedures**

1. Remove the 2 forward wheelhouse liner screws.
2. Remove the 2 washer container push pins.
3. Open the hood.
4. Remove the 6 upper fascia bolts right to the hood latch mechanism.
5. Remove the lower rear fascia bolt from the support bracket.
6. Loosen the 2 fascia to fender bolts from under the fascia.
7. Pull the outboard end of the front fascia straight outboard until it disengages from the fender attachment bracket.
8. Pull the fascia forward and downward to allow enough clearance to remove the headlamp assembly.
9. Loosen the lower outboard attachment bolts.
10. Remove the 2 upper headlamp bolts.
11. Grasp the headlamp at the upper inboard and lower outboard side and pull the headlamp forward to disengage the locating tab.
12. Pull the outboard side of the headlamp forward until the 2 locating pins disengage from the radiator support.
13. Disconnect the forward lamp harness connector.
Headlamp Bulb Replacement – GMC Yukon SUV (Z88)

Callout | Component Name
--- | ---
**Preliminary Procedure**
Remove the headlamp. Refer to Headlamp Replacement

<table>
<thead>
<tr>
<th>Callout</th>
<th>Component Name</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>High Low Beam Bulb</td>
</tr>
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Front Lights – Chevrolet Silverado Pickup (X88)

(1) Park/Turn Signal Lamp – Right Front Upper
(2) Headlamp – Low Beam – Right
(3) Headlamp – Low Beam – Left
(4) Park/Turn Signal Lamp – Left Front Upper
(5) Park/Turn Signal Lamp – Right Front Lower
(6) Headlamp – High Beam – Left
(7) Fog Lamp – Left Front (T96)
(8) Fog Lamp – Right Front (T96)
(9) Headlamp – High Beam – Right
(10) Park/Turn Signal Lamp – Right Front Lower
Front Lights – GMC Sierra Pickup (Z88)

(1) Headlamp – Low Beam – Right
(2) Park/Turn Signal Lamp – Right Front Upper
(3) Park/Turn Signal Lamp – Left Front Upper
(4) Headlamp – Low Beam – Left
(5) Marker Lamp – Left Front
(6) Headlamp – High Beam – Left
(7) Park/Turn Signal Lamp – Left Front Lower
(8) Fog Lamp – Left Front (T96)
(9) Fog Lamp – Right Front (T96)
(10) Park/Turn Signal Lamp – Right Front Lower
(11) Headlamp – High Beam – Right
(12) Marker Lamp – Right Front
Forward Lamp Harness – Diesel – Chevrolet Silverado/GMC Sierra Pickups

(1) G101
(2) Left Front Fender
(3) Left Front Headlamp
(4) G100
(5) Radiator
(6) X-106
(7) J101
(8) J100
(9) X103
(10) X100
(11) Fuse Block – Underhood X1
### X100 Forward Lamp Harness to Left Headlamp Harness

**Connector:** 8-Way F GT 280 Series, Sealed (BK)  
**O.E.M.:** 15326654  
**Color:** BLK  
**Service:** 88986254

<table>
<thead>
<tr>
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<td>712</td>
<td>Left Headlamp Low Beam Supply Voltage</td>
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<tr>
<td>B</td>
<td>BK</td>
<td>150</td>
<td>Ground</td>
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<tr>
<td>C</td>
<td>D-GN/WH</td>
<td>711</td>
<td>Left Headlamp High Beam Supply Voltage</td>
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<tr>
<td>D</td>
<td></td>
<td></td>
<td>Not Used</td>
</tr>
<tr>
<td>E</td>
<td>BN</td>
<td>2509</td>
<td>Left Rear Park Lamps Supply Voltage</td>
</tr>
<tr>
<td>F</td>
<td>BK</td>
<td>250</td>
<td>Ground</td>
</tr>
<tr>
<td>G</td>
<td>L-BU/WH</td>
<td>1314</td>
<td>Left Front Turn Signal Lamp Supply Voltage (X88)</td>
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**Connector:** 8-Way M GT 280 Series, Sealed (BK)  
**O.E.M.:** 15326655  
**Color:** BLK  
**Service:** 15306424

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<tr>
<td>C</td>
<td>D-GN/WH</td>
<td>--</td>
<td>Left Headlamp High Beam Supply Voltage</td>
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<tr>
<td>D</td>
<td></td>
<td>--</td>
<td>Not Used</td>
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<tr>
<td>E</td>
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<td>Ground</td>
</tr>
<tr>
<td>G</td>
<td>BK</td>
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<td>Ground</td>
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<tr>
<td>G</td>
<td>L-BU/WH</td>
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<td>Left Front Turn Signal Lamp Supply Voltage (X88)</td>
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### X106 Forward Lamp Harness to Right Headlamp Harness

**Connector:** 8-Way F GT 280 Series, Sealed (BK)

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<th>Function</th>
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<td>Right Headlamp Low Beam Supply Voltage</td>
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<tr>
<td>B</td>
<td>BK</td>
<td>250</td>
<td>Ground</td>
</tr>
<tr>
<td>C</td>
<td>L-GN/BK</td>
<td>311</td>
<td>Right Headlamp High Beam Supply Voltage</td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>E</td>
<td>BN</td>
<td>2609</td>
<td>Right Rear Park Lamps Supply Voltage</td>
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<tr>
<td>F</td>
<td>BK</td>
<td>150</td>
<td>Ground</td>
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<tr>
<td>F</td>
<td>BK</td>
<td>250</td>
<td>Ground</td>
</tr>
<tr>
<td>G</td>
<td>D-BU/WH</td>
<td>1315</td>
<td>Right Front Turn Signal Lamp Supply Voltage</td>
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<tr>
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**O.E.M.:** 15326654  
**Color:** BLK  
**Service:** 88986254

**Connector:** 8-Way M GT 280 Series, Sealed (BK)

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<tbody>
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<td>Right Headlamp Low Beam Supply Voltage</td>
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<tr>
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<td>BK</td>
<td>--</td>
<td>Ground</td>
</tr>
<tr>
<td>C</td>
<td>L-GN/BK</td>
<td>--</td>
<td>Right Headlamp High Beam Supply Voltage</td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>E</td>
<td>BN</td>
<td>--</td>
<td>Right Rear Park Lamps Supply Voltage</td>
</tr>
<tr>
<td>F</td>
<td>BK</td>
<td>--</td>
<td>Ground</td>
</tr>
<tr>
<td>F</td>
<td>BK</td>
<td>--</td>
<td>Ground</td>
</tr>
<tr>
<td>G</td>
<td>D-BU/WH</td>
<td>--</td>
<td>Right Front Turn Signal Lamp Supply Voltage</td>
</tr>
<tr>
<td>H</td>
<td>--</td>
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<td>Not Used</td>
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</tbody>
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**O.E.M.:** 15326655  
**Color:** BLK  
**Service:** 15306424
Headlamp Replacement – Chevrolet Silverado/GMC Sierra Pickups

Callout | Component Name
--- | ---
**Preliminary Procedures**
1 | Remove the front bumper fascia trim cap. Refer to Front Bumper Fascia Trim Cap Replacement.
2 | Disengage the front portion of either the LF or RF wheelhouse liner in order to access the lower inside hidden headlamp bolt. Refer to either Front Wheelhouse Liner Replacement – Left Side for the left side or Front Wheelhouse Liner Replacement – Right Side for the right side wheelhouse liner.
3 | Loosen only, do not remove, the lower outside hidden headlamp bolt (2).
4 | Disconnect the forward lamp harness main electrical connector from the headlamp harness.
Headlamp Bulb Replacement – GMC Yukon (Z88)

<table>
<thead>
<tr>
<th>Callout</th>
<th>Component Name</th>
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<tbody>
<tr>
<td></td>
<td>Preliminary Procedure</td>
</tr>
<tr>
<td></td>
<td>Remove the headlamp. Refer to Headlamp Replacement</td>
</tr>
<tr>
<td>1</td>
<td>High Low Beam Bulb</td>
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</table>
### Replacement Bulbs

#### 2007 Chevrolet Silverado

<table>
<thead>
<tr>
<th>Exterior Lamp</th>
<th>Bulb Number</th>
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</thead>
<tbody>
<tr>
<td>Backup Lamp</td>
<td>3047</td>
</tr>
<tr>
<td>Backup Lamp*</td>
<td>1156</td>
</tr>
<tr>
<td>Cargo lamp and Center High-Mounted Stoplamp (CHMSL)</td>
<td>912</td>
</tr>
<tr>
<td>Daytime Running Lamps</td>
<td>4114K</td>
</tr>
<tr>
<td>Fender Marker Lamp</td>
<td>W5WLL</td>
</tr>
<tr>
<td><strong>High-Beam Headlamp</strong></td>
<td>9005</td>
</tr>
<tr>
<td><strong>Low-Beam Headlamp</strong></td>
<td>H11</td>
</tr>
<tr>
<td>License Plate Lamp</td>
<td>168</td>
</tr>
<tr>
<td>Sidemarker Lamp/Stoplamp/Taillamp/Turn Signal Lamp</td>
<td>3047</td>
</tr>
<tr>
<td>Stoplamp/Turn Signal Lamp/Taillamp*</td>
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*Chassis Cab Models

#### 2007 Chevrolet Tahoe

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<tr>
<td>Backup Lamp</td>
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</tr>
<tr>
<td>Center High-Mounted Stoplamp (CHMSL), Cargo Lamp</td>
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<td>Front Turn Signal Lamp, Sidemarker Lamp and Parking Lamp</td>
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<tr>
<td><strong>High-Beam Headlamp</strong></td>
<td>9005</td>
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<td><strong>Low-Beam Headlamp</strong></td>
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<tr>
<td>License Plate Lamp</td>
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</tr>
<tr>
<td>Rear Turn Signal Lamp, Taillamp, and Stoplamp</td>
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</tr>
<tr>
<td>Sidemarker Lamp</td>
<td>194</td>
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#### 2007 GMC Yukon

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<td>Backup Lamp</td>
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<td>H13</td>
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<tr>
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<td>H13</td>
</tr>
<tr>
<td>License Plate Lamp</td>
<td>168</td>
</tr>
<tr>
<td>Rear Turn Signal Lamp, Taillamp, and Stoplamp</td>
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</tr>
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Trailer Lighting Schematic
**Connector Part Information**

OEM: 15354653
Service: 15306164
Description: 7-Way F Metri-Pack 280 630 Series Sealed

**Pins: B**
- Terminal/Tray: 12052456/3
- Core/Insulation Crimp: TBD
- Release Tool/Test Probe: TBD

**Pins: A, D, F, G**
- Terminal/Tray: 12110847/4
- Core/Insulation Crimp: C/5
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

**Pins: C, E**
- Terminal/Tray: 12110845/4
- Core/Insulation Crimp: F/5
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

---

**Trailer Connector**

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<td>A</td>
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<td>1624</td>
<td>Trailer Backup Lamp Supply Voltage</td>
</tr>
<tr>
<td>B</td>
<td>WH</td>
<td>22</td>
<td>Ground</td>
</tr>
<tr>
<td>C</td>
<td>D-BU</td>
<td>47</td>
<td>Trailer Auxiliary Supply Voltage</td>
</tr>
<tr>
<td>D</td>
<td>D-GN</td>
<td>1619</td>
<td>Trailer Right Rear Turn/Stop Lamp Supply Voltage</td>
</tr>
<tr>
<td>E</td>
<td>RD/BK</td>
<td>742</td>
<td>Battery Positive Voltage</td>
</tr>
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<td>F</td>
<td>BN</td>
<td>2109</td>
<td>Trailer Park Lamp Supply Voltage</td>
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<td>G</td>
<td>YE</td>
<td>1618</td>
<td>Trailer Left Rear Turn/Stop Lamp Supply Voltage</td>
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</table>
Wiring Location

(1) Rear Bumper
(2) Junction Block – Rear Lamps
(3) Terminator Resistor
(4) Trailer Connector (UY7)
Trailer/Camper Connector Wiring (1 of 2)
Trailer/Camper Wiring Location

(1) X414 (UY2)
(2) J420 (UY2)
(3) Camper/Trailer Harness
(4) J415 (UY2)
(5) Chassis Harness
(6) J416 (UY2)
(7) J417 (UY2)
(8) J414 (UY2)
(9) J421 (UY2)
(10) J410 (UY2)
(11) Camper/Trailer Harness
    Blunt Cuts (UY2)
(12) G401
(13) Trailer Connector (UY7)
Electric Trailer Brake Controller (ITBC) Wiring and Auxiliary 12-V Feed to Trailer

Applies to the following 2007 Full-Size Utilities and Pickups:

- 2007 Cadillac Escalade, Escalade ESV, Escalade EXT
- 2007 Chevrolet Avalanche, Silverado, Suburban, Tahoe
- 2007 GMC Sierra, Yukon, Yukon Denali, Yukon XL, Yukon Denali XL

The Following Step-by-Step Explanations Describe

Installation of an Electric Trailer Brake Controller and
Auxiliary 12-Volt Feed to Trailer

Starting with new 2007 full size utilities and pickups, a separate electric trailer brake controller pigtail harness is no longer provided. The trailer brake controller wiring is now part of the Instrument Panel (IP) wiring harness, and the blunt cut wires are located under the left side of the IP, behind the DataLink connector.

Note: These instructions do not apply to vehicles with Option JL1 (Integrated Tailer Brake Controls) available on 2007 H.D. trucks; or trucks with Option TP2 (H.D. availability) that already have the 12V battery Trailer Feed used as part of the RPO.

The explanation on Pages A-4 and A-5 shows how to locate the correct portion of the IP wiring harness and install a typical Trailer Brake Controller in a 2007 Chevrolet Silverado or GMC Sierra Pickup.

The explanation and photos on Page A-7 show how to install an Auxiliary 12V Feed to the Trailer in the same vehicles.
Installing Electric Trailer Brake Controller Wiring

1. Locate the trailer brake control circuits looped and taped to the main harness under the IP (Fig. 1)

2. Pull the trailering harness wire down (Fig. 2)

3. Match vehicle harness label circuit functions to the trailer brake controller jumper harness functions (Fig. 3)

The vehicle owner’s manual (page 483) refers to 4 wires, but there are 5 wires looped back in the IP harness. The fifth wire is not required with most systems (see table below).

Match functions: The color of wires that are joined together may not match.

<table>
<thead>
<tr>
<th>Wire Color</th>
<th>Circuit #</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dark Blue</td>
<td>47</td>
<td>Switched power from controller to trailer brakes</td>
</tr>
<tr>
<td>Red with Black Stripe</td>
<td>242</td>
<td>Fused vehicle power to electrical brake controller - 12-volt (30A stud #2)</td>
</tr>
<tr>
<td>Light Blue with White Stripe</td>
<td>6311</td>
<td>Brake switch input to power electric brake controller</td>
</tr>
<tr>
<td>White</td>
<td>22</td>
<td>Ground</td>
</tr>
<tr>
<td>Orange</td>
<td>--</td>
<td>CHMSL (not required with most systems)</td>
</tr>
</tbody>
</table>

(continued on next page)
Installing Electric Trailer Brake Controller Wiring (cont’d)

4. After completing the under-IP connections to the electric brake controller, open the hood and locate the red wire taped to the harness between the under-hood electrical center and the driver-side front fender (Fig. 4)

Figure 4

5. Break the tape on the red wire and pull the wire toward the front of the vehicle

6. Remove the cover from the under-hood electrical center

7. Place the terminal on the larger of the two studs at the front of the under-hood electrical center and secure with an M8 nut (Fig. 5)

Figure 5

NOTE

The fuse for the trailer brake controller circuit is factory-installed on the under-hood electrical center (Fig. 6)

Figure 6
Electric Trailer Brake Wiring

Electric Trailer Brake Wiring Schematic
Installing Auxiliary 12-Volt Feed to Trailer

1. Locate the red wire looped and taped to the chassis harness below the brake master cylinder (Fig. 1)

2. Break the tape and route the wire to the front of the vehicle’s under-hood electrical center

3. Place the terminal on the smaller of the two studs (Fig. 2) in front of the under-hood electrical center and secure with an M6 fastener

4. Install a 40-amp fuse to power the circuit (Fig. 3)

NOTE: This hookup is used to provide power for 12-Volt DC electrical devices in the trailer (example: lights, refrigerator or battery charger). Devices powered by this circuit will drain the vehicle’s battery if left connected while the engine/alternator is not operating.
This vehicle may be equipped with a Trailer Brake Control (TBCM) system for electric trailer brakes. The power output to the trailer brakes is based on the amount of brake pressure being applied in the vehicle’s brake system. The available power output to the trailer brakes can be adjusted to a wide range of trailering situations.

**Important:** Connecting a trailer that is not compatible with the ITBC 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 your vehicle, trailer, or other property. An aftermarket controller may be available for use with trailers with surge, air or electric-over-hydraulic trailer brake systems. To determine the type of brakes on your trailer and the availability of controllers, check with your trailer manufacturer or dealer.

**Important:** If your vehicle is equipped with an ITBC, the blunt cuts exist, but are not connected further in the harness. If you install an aftermarket trailer brake controller, the ITBC must be disconnected. Do not power both ITBC and aftermarket controllers to control the trailer brakes at the same time.

The vehicle is equipped with the following trailer braking components:

- Manual Trailer Brake Apply
- Trailer Gain Adjustment
- Trailer Brake Control Panel
- Trailer Brake DIC Display

**Manual Trailer Brake Apply**

The Manual Trailer Brake Apply Lever is located on the Trailer Brake Control Panel, and is used to apply the trailer electric brakes independent of your vehicle 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 DIC. If your vehicle 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 brake lamps will come on when either vehicle 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.

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 poorer stopping and stability of the vehicle and trailer.
Integrated Trailer Brake Control (ITBC) Description & Operation – Option JL1 (cont’d)

Trailer Gain Adjustment (cont’d)

After the electrical connection is made to a trailer equipped with electric brakes, the TRAILER CONNECTED message will be momentarily displayed on the DIC. The Trailer Brake Display Page will appear on the DIC showing TRAILER GAIN and OUTPUT, after all vehicle related service messages are acknowledged by the driver. The dashed lines in the TRAILER OUTPUT display signifies a disconnected trailer or TBCM fault condition, and will disappear only when the TBCM fault condition is not present.

Important: 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.

- 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 road 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 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 Brake Control Panel

The TBCM system has a control panel with the trailer gain and manual apply switches, and is located on the instrument panel to the left of the steering column. See Instrument Panel Overview for more information on location. The control panel and switches allows you to adjust the amount of output, referred to as trailer gain, available to the electric trailer brakes and allows you to manually apply the trailer brakes. The Trailer Brake Control Panel, and switches is used along with the Trailer Brake Display Page on the DIC to adjust and display power output to the trailer brakes.

Driver Information Indicators and Messages

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

TRAILER CONNECTED

This message will be briefly displayed when a trailer with electric 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.

(continued on next page)
**CHECK TRAILER WIRING**

This message will be displayed if:

- The ITBC system first determines connection to a trailer with electric brakes and then the trailer harness becomes disconnected from the vehicle. If the 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 re-connected. If the disconnect occurs while the vehicle is moving, this message will continue until the ignition is turned off. This message will also turn off if the driver acknowledges this message off or if the trailer harness is re-connected.

- There is an electrical fault in the wiring to the electric trailer brakes. This 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. To determine if the electrical fault is on the vehicle side or trailer side of the trailer wiring harness connection, do the following:
  1. Disconnect the trailer wiring harness from the vehicle.
  2. Turn the ignition OFF.
  3. Wait ten seconds, then turn the ignition back to RUN.
  4. If the **CHECK TRAILER WIRING** message re-appears, the electrical fault is on the vehicle side. If the **CHECK TRAILER WIRING** message only re-appears when you connect the trailer wiring harness to the vehicle, the electrical fault is on the trailer side.

**SERVICE TRAILER BRAKE SYSTEM**

This message will be displayed when there is a problem with the TBCM system. If this message persists over multiple ignition cycles there is problem with the TBCM system. Take your vehicle to an authorized GM dealer to have the TBCM system diagnosed and repaired.

**TRAILER GAIN and OUTPUT Display**

This display menu can be accessed by scrolling through the DIC vehicle Information menu, or any time the trailer gain +/- button is depressed, or the manual trailer brake apply lever is actuated. The trailer gain display is 0 to 10 in 0.5 step increments, and indicates the current user setting of the trailer output gain. The trailer output is 0 to 10 bars in 1 bar increments, and indicates the output power provided to the trailer brakes, relative to the gain setting.
(1) I/P Trim
(2) I/P Cluster Trim
(3) Trailer Brake Controller Switch
Trailer Brake Controller Module (TBCM) Location

(1) Trailer Connector
(2) Trailer Brake Controller Module (TBCM)
(3) Trailer Brake Controller Solid State Relay
Automatic Transmission Shift Lock Control

Description and Operation

The automatic transmission shift lock control system is a safety device that prevents an inadvertent shift out of PARK when the engine is running. The driver must press the brake pedal before moving the shift lever out of the PARK position. The system consists of the automatic transmission shift lock solenoid (serviced as the automatic transmission shift lock actuator), as well as the Body Control Module (BCM) and Engine Control Module (ECM). The shift lock solenoid is located within the steering column assembly.

The BCM controls the voltage supply circuit of the shift lock control solenoid. The following conditions must be met before the BCM will supply voltage to the shift lock control solenoid:

- The ignition is in the ON position.
- The ECM sends an input via GMLAN serial data to the BCM indicating the transmission is in the PARK position.
- The BCM determines the brake pedal is not applied according to the stop lamp switch.

Since the shift lock control solenoid is permanently grounded, the BCM supplies voltage to the automatic transmission shift lock control solenoid, mechanically locking the shift lever in the PARK position as the solenoid energizes. When the brake pedal is applied, the BCM turns the control voltage output of the shift lock control solenoid OFF, de-energizing the shift lock control solenoid. The de-energized solenoid releases the mechanical lock allowing the driver to move the shift lever out of the PARK position. When the transmission is out of the PARK position, the shift lock control solenoid remains de-energized.

During remote start operation the BCM will energize the shift lock control circuit, locking the shift lever in the PARK position.
**Cruise Control and/or PTO Inoperative**

**Recommendation/Instructions:**
Install a 330 ohm 3/4 watt resistor in place CHMSL connector. If a connector is not available. Place the resistor between circuit 17 and secure the other end of the resistor to ground and tape to harness.

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

**Condition/Concern:**
Some customers may state that the Cruise Control and/or the Power Take Off Unit (PTO) may be in-op. If the vehicle was originally equipped with a Center High Mount Stop Lamp (CHMSL) assembly and the vehicle is a cut away or has been modified. It is possible that the CHMSL was removed or was ordered with CHMSL delete option (RPO TS9).

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GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.
Diesel Particulate Filter

Your vehicle has a Diesel Particulate Filter (DPF) as part of the exhaust system to reduce vehicle emissions. The DPF requires a unique exhaust tailpipe with an exhaust cooler. The exhaust cooler mixes air with the exhaust at the tailpipe. This lowers the exhaust temperature before it leaves the tailpipe.

The DPF, the tailpipe, or other exhaust system components must not be altered. The area where the exhaust cooler connects to the tailpipe should be inspected, especially the area where the fresh air enters the cooler. Make sure the openings are not restricted or plugged with mud or dirt which could inhibit exhaust gas cooling. See "Exhaust System Inspection" under At Least Once a Year.

The DPF will regenerate (self-clean) itself as part of normal operation. The Engine Control Module (ECM) controls this function based on several factors including the amount of fuel consumed, hours of engine operation and miles driven. On average, the DPF will clean itself about once per tank of fuel.

Notice: Use of diesel fuel other than Ultra Low Sulfur Diesel (15 ppm sulfur maximum) or engine oil other than low ash CJ-4 oil will cause permanent damage to the DPF and related components. This damage would not be covered by your warranty.

Your DPF equipped vehicle has specific fuel and engine oil requirements. See What Fuel to Use and Engine Oil to make sure you use the required fuel and engine oil.

Caution: During DPF regeneration, the exhaust system and exhaust gases are very hot. Things that burn could touch hot exhaust parts under your vehicle and ignite. You or others could be burned. Do not park near or over papers, leaves, dry grass, or other things that can burn.

If you have a pickup model and the CLEAN EXHAUST FILTER SEE OWNERS MANUAL message appears in the Driver Information Center (DIC), the DPF needs to be cleaned. If you have a van model and the engine exhaust gas filter warning light, CLN EXH FILTER, comes on, the DPF needs to be cleaned. See DIC Warnings and Messages for pickup models, or Engine Exhaust Gas Filter Warning Light for van models.

To clean the filter, drive the vehicle above 30 mph (50 km/h) until the warning light/message goes off. This will take about 20 minutes.

Notice: Extended idle should be avoided because the DPF system is not capable of regenerating at idle. During extended idle, be sure to watch for the DPF warning light/message which could come on to indicate that the DPF is becoming full and needs regeneration. If the light/message comes on, stop the idling and drive the vehicle as described previously to clean the filter. Continued idling with the warning light/message on could cause irreversible damage to the DPF requiring repair and possible replacement that might not be covered by your warranty.

(continued on next page)
Extended idling in PARK (P) can cause exhaust parts and gases to become very hot. Keep the exhaust area clear of material that could ignite or burn. See Parking Over Things That Burn for more information.

The DPF warning light/message comes on when the DPF is dirty and needs regenerating. You will also notice a change in the exhaust sound and engine idle speed. This is normal.

If you continue to drive with the DPF warning light/message on and the exhaust filter is not cleaned as required, the check engine and reduced engine power warning lights will come on and dealer/retailer service is necessary. See Malfunction Indicator Lamp and Reduced Engine Power Light for more information.

For vehicles with Power Take-Off (PTO), monitor the instrument panel cluster for lights related to the DPF.

All engines consume some amount of engine oil. This is normal. The by-product of combustion of engine oil is ash. The ash will become trapped in the DPF over the life of the vehicle. Eventually, the buildup of ash will restrict the exhaust gases and the DPF will need to be cleaned or replaced.

See Accessories and Modifications for important information.
Electrical Connections

Your vehicle is equipped with wiring provisions for a 12-volt power supply (SEO 9L4). Refer to the following information when adding electrical accessories that will use the 9L4 12-volt power supply feeds connected to your vehicle’s electrical system. After reading the following information, keep it with your owner’s manual for future reference.

Notice: Before modifying or adding any wiring, be sure that it will work properly with your vehicle's wiring system. Because there are so many modifications that can be made for many different bodies and accessories, GM cannot take responsibility for any changes made. Such changes may not be covered by your GM Warranty. Have the work done by an experienced electrical technician. All wiring must be properly protected by fuses, etc. and must be routed properly so that it will not be cut, pinched or rubbed by other parts of the vehicle. Do not route wiring in areas where it will be very hot. Be sure not to overload the vehicle's wiring, connectors and components. All added wire must be at least the same size as the wire being attached to for proper fuse protection.

Installation Instructions — 12 Volt Accessory Power Supply

1. Disconnect the battery negative (-) cable at the battery. The negative (-) battery cable must be disconnected before the positive wiring lead is connected to the power accessory.

2. Locate the power supply harness under the instrument panel near the center of the vehicle. The wire bundle consists of six blunt cut wires, two red/white (battery hot), two black (ground), one light green (Ign hot) and one light blue (Ign hot).

3. Remove the tape to release the wire bundles from the power supply harness.

4. The IGN A and IGN B wires have voltage supplied and are HOT when the ignition is turned to ACC, RUN or RAP (Retained Accessory Power).

   The BAT A and BAT B wires have direct voltage supplied and are HOT at all times.

   The combined electrical load of IGN A and BAT A must not exceed 21 amps (250 watts). Additionally, the combined electrical load of IGN B and BAT B must not exceed 21 amps (250 watts). The combined electrical load of all circuits must not exceed 42 amps (500 watts).

5. Prepare the wires that are to be used to connect the power accessory. Do not remove the unused wires. Tape unused wires back in their original position under the instrument panel.

6. Complete the wiring installation of the customer added accessory with additional wire required for the specific electrical accessory power connection. The wire gage, 12 gage (3.0 mm²), should be the same as the wiring of the installed harness.

7. The ignition must be turned to OFF or ACC prior to attaching the cables to the battery, or serious damage to the Vehicle Control Module (VCM) may result.

   The windshield wiper switch and the radio must be turned off before attaching cables to the battery.

8. Reconnect the battery negative (-) cable to the battery. Torque the bolt to 3.7 lb-ft. (5 N·m).

9. Reset the clock time and radio pushbuttons as desired.
LED or Additional Turn Signals

Amber turn lamps on the NEW C/K Trucks are only used on the front of the vehicle. Rear lamps are combined stop/turn (red). Turn signals are controlled by the BCM. No flasher module is used. Adding additional bulbs will cause the BCM output to shut down resulting in no flashing. Replacing the front turn lamps with LED’s will result in a rapid flash rate. This FMVSS required lamp outage detection is due to the change in lamp current through the BCM.

Two relays (left and right) need to be added for additional or LED turn signals. Power for the relays needs to go back to the UBEC. Turn signals are available at the forward lamp connectors. Information on these connectors is shown in Section C of the Utility Body Builders manual shown on the Upfitters website. The address of the manual is:


Chevrolet Silverado and GMC Sierra Pickup forward light circuits are identical. They are similar to the Chevrolet SUV but lack the separate DRL lamps of the SUV. Daytime Running Lights are accomplished by reduced intensity headlamps. The Pickups use the same connectors as the Chevy SUV. C100 and C106 are shown on pages C-6 and C-9 of the Utility manual. There is no additional connector for the VYU (Snowplow) option. Requirements for Snowplows are shown. Adding additional lights or LED’s have the same vehicle wiring requirements.

Note: The truck will not have Lamp (or LED) outage detection. Although the life of high-quality LED’s are substantially longer than the bulbs they replace, it is the upfitter's responsibility for making this modification.
Additional Turn Signals – GMC Yukon (Z88)

1. If the front turn signals are to be functional on the vehicle AND the plow simultaneously then a relay (left & right) need to be added to the front turn system. Add a jumper and a single wire would need to be taken back to the UNEC for power to the plow turn bulbs.

Note: the wire for headlamp is only provided for 82/88. Snowplow prep applications. Otherwise the front Headlamp harness plug directly into the headlamp bulb.
Additional Turn Signals – Chevrolet Tahoe & Suburban (X88)

1. Synchronize and adjust wiper and washers to be in proper position to the CHICK for display.

2. If the horn will switch off immediately when the vehicle AND the low beam and high beam is on, show how to reset the fuse, in the event it is says 2 points to get all required fusing codes.
Additional Turn Signals – Chevrolet & GMC Pickups

1. The front turn signals will be grounded in the whole AND the turn signal neutral jumper will be moved in the neutral position. A single wire would need to be taken back to the battery power to the plow turn bulbs.

2. Snowplow upfitter tee's are at these two points to get all required lighting feeds.

   - GMT900 CHEVY/GMC PICKUPS
   - Dual turn signal wiring (left & right)
   - 10amp fuse located in Rear Engine Compartment
   - POA Jumper (single wire located in back of tail lamp assembly)

   - Right Side Marker
   - Right Park/Turn #1 & #2
   - Right Low Beam
   - Right High Beam

   - Left Side Marker
   - Left Park/Turn #1 & #2
   - Left Low Beam
   - Left High Beam

   - Fwd Lamp Harness
   - GMT900 CHEVY/GMC PICKUPS

   - 10amp fuse located in Rear Engine Compartment
   - POA Jumper (single wire located in back of tail lamp assembly)
Service Body Rear Lighting Options (including LED)

Models Affected: All New C/K Chevrolet Silverado and GMC Sierra, 3500 Series Heavy Duty Chassis Cab, Pickups with Box Delete Option (RPO ZW9) and, Models Approved for Pickup Box Removal

SUMMARY
- Chassis Cab & ZW9 box delete option models will work with LED or any other turn signals without modification.
- Tail lamp alteration of a regular truck (i.e. deleting Pickup box w/o ZW9) needs to have the BCM calibration changed if LED's or single bulb lamps are used. This must be done at a dealer.

Service Bulletin (Document ID# 1956334) describes how the dealer can change the BCM calibration.

Notes: This bulletin addresses the “All New” not the “Classic” C/K truck.

FMVSS 108 / CMVSS 108 compliance is the responsibility of the upfitter.

Significant points are as follows:
- The Turn Signals are controlled by the BCM not a separate flasher module.
- Rear Lamp Bulb Outage detection is displayed as a “fast” turn signal flash rate in the cluster.
- All trucks are built with one of two BCM calibrations:
  - All “regular” C/K trucks - 2 Bulb Outage Detection
  - All Chassis Cabs & ZW9 box delete option – No Bulb Outage Detection. This may be used for LED turn signals with a standard flash rate.
  - Note: No calibration presently exists for Single Bulb Lamp Outage Detection.
- The BCM is current limited to 6A. The BCM output (& lamps) will turn off if this is exceeded.
- The “All New” C/K trucks have combined “red” stop/turn signal lamps.
- Adding additional turn only (Amber) signals are described in the Body Builders Manual.
Service Body Rear Lighting Options – Pickup Box Delete (ZW9)

See Section E for more ZW9 information.
Preface: Support Information

• Acronyms
  - 2WD = Two Wheel Drive
  - 4WD = Four Wheel Drive
  - A/D = Analog to Digital
  - AIR = Air Injection Reaction
  - ABS = Anti-lock Brake System
  - AUX = Auxiliary
  - AW = All Wheel Drive
  - BASS = Brake Apply Sensing System
  - BATT = Battery
  - B/C/ = Body Control Module
  - B/C/ = Bussed Electrical Center
  - BOT = Bottom Of Travel
  - B/CC = Body Climate Control
  - B/C/ = Body Control Center
  - B/C/ = Body Control Module
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  - B/C/ = Body Control System
  - B/C/ = Body Control Unit
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  - B/C/ = Body Control System
  - B/C/ = Body Control Unit
  - B/C/ = Body Control System
  - B/C/ = Body Control Unit
Preface: Support Information (cont'd)

• Miscellaneous Information
  - C = 2WD
  - K = 4WD
  - 03 = Regular Cab Pickup
  - 43 = Crew Cab Pickup
  - 53 = Extended Cab Pickup
  - 06 = Utility (Both 706 & 906)
  - 706 = Regular Utility
  - 906 = Large Utility
  - 36 = Ultimate Utility Vehicle (UUV)
  - 10 = Series (Pickup/Utility/UUV)
  - 20 = Series (Pickup/Utility/UUV)
  - 30 = Series (Pickup)
  - 31 = Series (Cab Chassis)

• Vehicles by RPO
  - 03/43/53 = Chevrolet Silverado / GMC Sierra / GMC Sierra Denali
  - 03/43/53&Z88 = GMC Sierra / GMC Sierra Denali (43 Only)
  - 06 = Cadillac Escalade / Cadillac Escalade ESV / Chevrolet Tahoe / Chevrolet Suburban / GMC Yukon / GMC Yukon Denali / GMC Yukon XL / GMC Yukon Denali XL
  - 06&X88 = Chevrolet Tahoe / Chevrolet Suburban
  - 06&Z75 = Cadillac Escalade / Cadillac Escalade ESV
  - 06&Z88 = GMC Yukon / GMC Yukon Denali / GMC Yukon XL / GMC Yukon Denali XL
  - 06&Z88&Y91 = GMC Yukon Denali / GMC Yukon Denali XL
  - 36 = Chevrolet Avalanche / Cadillac Escalade EXT
  - 36&X88 = Chevrolet Avalanche
  - 36&Y91/Z75 = Cadillac Escalade EXT
  - 43&Y91 = GMC Sierra Denali
  - 43&Y91&Z88 = GMC Sierra Denali
  - 706 = Cadillac Escalade / Chevrolet Tahoe / GMC Yukon / GMC Yukon Denali
  - 706&X88 = Chevrolet Tahoe
  - 706&Y91 = Cadillac Escalade / GMC Yukon Denali
  - 706&Y91&Z88 = GMC Yukon Denali
  - 706&Z75 = Cadillac Escalade
  - 706&Z88 = GMC Yukon / GMC Yukon Denali
  - 906 = Cadillac Escalade ESV / Chevrolet Suburban / GMC Yukon XL / GMC Yukon Denali XL
  - 906&X88 = Chevrolet Suburban
  - 906&Y91 = Cadillac Escalade ESV / GMC Yukon Denali XL
  - 906&Y91&Z88 = GMC Yukon Denali XL
  - 906&Z75 = Cadillac Escalade ESV
  - 906&Z88 = GMC Yukon XL / GMC Yukon Denali XL

• 900 Numbers
  - 901 - Light Duty Pickups - Chevy Silverado
  - 902 - Light Duty Pickups - GMC Sierra, (GMC Sierra Denali?)
  - 911 - Heavy Duty Pickups - Chevy Silverado
  - 912 - Heavy Duty Pickups - GMC Sierra, (GMC Sierra Denali?)
  - 921 - Utility - Chevrolet Tahoe
  - 922 - Utility - GMC Yukon, (GMC Yukon Denali?)
  - 926 - Utility - Cadillac Escalade
  - 931 - Large Utility - Chevrolet Suburban
  - 932 - Large Utility - GMC Yukon XL, (GMC Yukon Denali XL?)
  - 936 - Large Utility - Cadillac Escalade ESV
  - 941 - Sport Utility Truck - Chevrolet Avalanche
  - 946 - Sport Utility Truck - Cadillac Escalade EXT
Preface: Support Information (cont'd)

**RPOs**
- 03 = Regular Cab Pickup
- 06 = Utility (Applicable to both 706 & 906)
- 36 = Ultimate Utility Vehicle (UUV)
- 43 = Crew Cab Pickup
- 53 = Extended Cab Pickup
- 706 = Regular Utility
- 906 = Large Utility
- 5W4 = Special Service Package (4WD Police Package)
- (5W4 contains 6J1, 6J3, 6J4, 6J7, 7X6, 7X7, 9G8, TRW, WX7 & optionally 6A6)
- 5X7 = Provisions - Wrecker Emergency Lamp (SEO)
- 910 = Wiring Provisions Body Builder Emergency Lamp (SEO)
- 6A5 = Dual Battery, 730 CCA
- 6J1 = Power Supply, 100Amp at Dash and Rear Compartment
- 6J3 = Wiring Provisions, Grill Lamp & Speakers
- 6J4 = Wiring Provision, Horn/Siren
- 6J7 = Wiring Provision, Head Lamp & Tail Lamp Flasher
- 7X6 = Spot Lamp, LH
- 7X7 = Spot Lamp, LH & RH
- 7Z1 = Horn - Dual Hight Note (SEO)
- 8A5 = Generator 105 Amp, Dual (SEO) (w/o YF2)
- 906 = Large Utility
- 9G8 = DRL Delete
- 9L4 = Wiring Provisions 12V Power Supply
- A31 = Window, Electric Operated, Side
- A48 = Window RR Full Width, Sliding, Power
- ABV = Window Power Operated, RR Side Access Drs
- AG1 = Driver Power Seat
- AG2 = Passenger Power Seat
- AL0 = Auxiliary Occupant Sensing (AOS)
- AN3 = Memory Driver Seat
- AP3 = Lock Control, Entry Remote, Keyless Entry, Start
- AP8 = Lock Control, Entry Remote Entry, Extended Range (Remote Start Ready)
- ARS = Power Fold & Tumble 2nd Row Seats
- AS3 (with ASF) = Third Row Roof Rail Airbags
- ASF = Restraint Roof Side, LH & RH, Inflatable
- AU0 = Lock Control Remote Entry
- AU2-YE9 = Base Power Locks
- AZ3 = Seat Frt Split, Driver, Pass, Full Feature Center
- BR5 = Retractable Runningboard
- C25 = Wiper/Washer System, Rear Window
- C36 = Heater Auxiliary
- C42 = Manual Heater Only
- C49 = Rear Window Defog
- C67 = HVAC System Air Conditioning FRT Electronic Controls
- C69 = HVAC System RR Air Conditioner
- C99 = Switch Infl Rst Up Mdl Man Suppression

**RPOs (continued)**
- CE1 = Wiper System Windshield, Pulse, Moisture Sensitive
- CF5 = Roof Sun, Glass, Sliding, Elec
- CJ2 = Dual HVAC System Auto Temp Cont
- CJ3 = Dual HVAC System Man Temp Cont
- D07 = Console Frt Compt, Floor, Custom
- D6L2T751 = 2751 Double Ring Terminal
- DD8 = Mirror VS R/V Electrochromic
- DL6 = Mirror VS, Visor Vanity, LH & RH Sunshade (ILLUM)
- DL9 = Mirror O/S LH & RH, Rem Cont, Elec, Heat, Pwr Fold, Turn Sig, Electrochromic
- DR8 = OSRVM, Electric, Heated, Light Sensitive, Power Folding, Turn Signal (Export?)
- DT4 = Factory Installed Cigar Lighter (Cadillac Only)
- E92 = One Piece Lift Gate With Lift Glass
- E93 = Door RR Liftgate, Power
- E9A = Evap Emission
- EXPORT = European Export Content (awaiting RPO)
- G69 = Level Control Auto, Air, HD
- HFY = Heavy Duty Models (20HD, 30, 31)
- (HVFY) = Light Duty Models (10, 20LD)
- JD3 = Brake System, Vacuum, ABS Controls, 7,700 Lbs
- JF3 = Brake System, Vacuum, ABS Controls, 7,000 Lbs
- JF4 = Pedals Adjustable, Power
- JF7 = Brake System, Vacuum, ABS Controls, 6,400 Lbs
- JH6 = Brake Hyd Power, 4 Whi Disc, 9,900 Lbs
- JH7 = Brake Hyd Power, 4 Whi Disc, 12,300 Lbs
- JL1 = Integrated Trailer Brake Controller
- JL0 = Active Brake Control (VSES) Not Desired
- JL4 = Control Active Brake (VSES)
- JLB = Reactor System Air Injection, Electric
- K16 = Door Console, Power, Heat
- K24 = Cruise Control, Electric
- K55 = Generators 105 Amp, Dual, Heat
- K56 = Heater Seat, Rear
- KA3 = Heater, Seat, Rear
- KA9 = Heater Steering Wheel
- KB5 = Heater Seat, Cooling, Frt
- K7L = 6.0L V8 Gasoline Engine (Aluminum - DOD)
- L92 = 6.0L V8 Gasoline Engine (Aluminum - DOD)
- L99 = 5.3L V8 Gasoline Engine (Aluminum - DOD)
- L9G = 5.3L V8 Gasoline Engine (Iron - DOD) E85
- LMM = Engine Diesel 8 cyl, 6.6L, DPI, V8, Duramax
- LMU = Engine Diesel 8 cyl, 6.6L, DPI, V8, Duramax
- LMX = 4.3L V6 Gasoline Engine (Iron)
- LNY = 4.3L V6 Gasoline Engine (Iron)
- LS5 = 5.3L V8 Gasoline Engine (Iron - DOD)
- LYE = 6.0L V8 Gasoline Engine (Iron)
- M30 = Transmission Auto 4 Speed, HMD, 4L60E, Electronic
- M70 = Transmission Auto 4 Spd, HMD, 4L70-E, Super Duty
- MS6 = Transmission Manual 5 Speed, Tremec, 190 mm
## Preface: Support Information (cont'd)

### RPOs (continued)
- MW7 = Transmission Auto 5 Speed, Allison LCT, O/D, Conv Clutch
- MYC = Transmission Auto 6 Speed, HMD, 6L80
- MYD = Transmission Auto 6 Speed, HMD, 6L90
- NP8 = Transfer Case Active, 2 Speed, Push Button Cont.
- (NQZ) = Dual Fuel Tanks (NQZ = 18 Gal Fuel Tank Delete)
- NQF = Transfer Case Electric Shift Cont, Two Speed, Alum
- NQG = Transfer Case Manual Shift Cont, Two Speed, Alum
- NDH = Transfer Case Active, Two Speed, Push Button Control, Alum
- PPV = Police Package (2WD)
- (PPV contains 6J1, 6J3, 6J4, 6J7, 7X6, 7X7, 9G8, JLO, TRW, WX7, & optionally 6A6)
- PTO = Provisions Power Take Off Controls
- R05 = Dual Rear Wheels
- SERIES10 = 10 Series (Pickup/Utility/UUV)
- SERIES20 = 20 Series (Pickup/Utility/UUV)
- SERIES30 = 30 Series (Pickup)
- SERIES31 = 31 Series (Cab Chassis)
- SPLSVRLS = Low Speed GMLAN Splice Saver
- T61 = Daytime Running Lamps
- T79 = Lamp Fog, Frt
- T96 = Lamp Fog, Frt
- TP2 = Auxiliary Battery
- TQ5 = Control Intelligent High Beam
- TR2 = Lamp Side Repeater (Export)
- TRW = Provisions - Roof Mount Emergency Lamp
- TZO = Transmission Manual 5 Speed, Tremec, 85 mm
- U01 = Lamp Five, Roof Marker, Truck
- U2K = Digital Audio System S-Band (SDARS)
- U3R = Radio AM/FM Stereo, WX, Seek/Scan, CD, DVD, Nav, Clock, DSP, RDS, w/Voice Rec Micro (Cadillac)
- U42 = Entertainment System Rear Seat (DVD)
- U84 = Antenna Body Side Window, Radio
- U46 = Theft Deterrent System (Export)
- UD7 = Sensor Indicator Rear Parking Assist (Ultrasonic)
- UE1 = OnStar Remote
- UE2 = Theft Deterrent System
- UE6 = Indicator Low Tire Press
- UK3 = Electronic System Steering Wheel Accessory Controls
- UK8 = Radio Control Rear Seat & Earphone Jacks (Only Available with UQA/UQS)
- UL5 = Radio Delete
- UQ3 = Uplevel Speaker Package
- UQS = Base Speaker Package
- UQA-Y91 = Premium Non-Luxury Speaker System (6-Channel Bose)
- UQAA&Y91 = Premium Luxury Speaker System (9-Channel Bose)
- UQ9 = Premium Luxury Speaker System (9-Channel Bose with Surround)
- UVB = Radio AM/FM Stereo, Seek/Scan, Auto Tone, CD, CD-R MP3, DVD, Nav, Clock, ETR, RDS (Chevy/GMC Non-Luxury)
- UVC = Camera Rear View
- UY2 = Wiring Provisions Camper & 5th Wheel Trailer
- UY7 = Wiring Harness Truck Trailer, HD

### RPOs (continued)
- VYU = Provisions Snow Plow
- WX7 = Speaker Wiring Provision
- X88 = Chevrolet
- XA7 = Washer Nozzles, Heated, Windshield (WFHS)
- Y91 = Luxury Trim (Includes YE9)
- YE9 = Uplevel Trim
- (YE9) = Base Trim
- YF2 = Sales Package Ambulance Upfitter (Generators, Lighting)
- Z49 = Export Canadian Modif Mandatory Base Equipment
- Z55 = Chassis Package Bi-State Real Time Damping
- Z75 = Cadillac
- Z82 = Trailer Provisions Special Equipment, H.D.
- Z88 = GMC
Power Distribution: Pickup – Fuse Block – Underhood, Top View – Diesel
Power Distribution: Pickup – Fuse Block – Underhood, Top View – Gas
Power Distribution: Pickup – Fuse Block – Underhood, Bottom View
### Power Distribution: Pickup – Underhood, Device Usage – Diesel (cont'd)

#### Fuse Block – Underhood, Device Usage – Diesel

<table>
<thead>
<tr>
<th>No.</th>
<th>Device</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FAN Fuse</td>
<td>10A</td>
<td>Fan Relay</td>
</tr>
<tr>
<td>2</td>
<td>EXH VLV Fuse</td>
<td>30A</td>
<td>Not Used</td>
</tr>
<tr>
<td>3</td>
<td>ESC/ALC EXH Fuse</td>
<td>30A</td>
<td>Not Used</td>
</tr>
<tr>
<td>4</td>
<td>TRLR STOP LT</td>
<td>10A</td>
<td>Trailer Wiring, Auxiliary Body Control</td>
</tr>
<tr>
<td>5</td>
<td>ENG Fuse</td>
<td>15A</td>
<td>Mass Air Flow (MAF)/Intake Air Temperature (IAT) Sensor</td>
</tr>
<tr>
<td>6</td>
<td>TRLR STOP RT Fuse</td>
<td>10A</td>
<td>Trailer Wiring, Auxiliary Body Control Module (XBCM) (Expert)</td>
</tr>
<tr>
<td>7</td>
<td>FRT WASH Fuse</td>
<td>15A</td>
<td>Windshield Washer Fluid Pump</td>
</tr>
<tr>
<td>8</td>
<td>Fuel HTR Fuse</td>
<td>15A</td>
<td>Glow Plug Control Module (GPCM), Fuel Heater</td>
</tr>
<tr>
<td>9</td>
<td>TCM-BATT Fuse</td>
<td>15A</td>
<td>Transmission Control Module (TCM)</td>
</tr>
<tr>
<td>10</td>
<td>ABS 2 Fuse</td>
<td>25A</td>
<td>Electronic Brake Control Module (EBCM)</td>
</tr>
<tr>
<td>11</td>
<td>TRLR BCK/UP Fuse</td>
<td>10A</td>
<td>Trailer Wiring</td>
</tr>
<tr>
<td>12</td>
<td>LO HDLP-LT Fuse</td>
<td>20A</td>
<td>Headlamp-Low Beam-Left</td>
</tr>
<tr>
<td>13</td>
<td>ECM-BATT Fuse</td>
<td>10A</td>
<td>Engine Control Module (ECM)</td>
</tr>
<tr>
<td>14</td>
<td>DSL ECM Fuse</td>
<td>25A</td>
<td>Engine Control Module (ECM)</td>
</tr>
<tr>
<td>15</td>
<td>TRANS IGN 1 Fuse</td>
<td>15A</td>
<td>Transmission Control Module (TCM), Front Axle Actuator (NO/NOQ)</td>
</tr>
<tr>
<td>16</td>
<td>VEH BCK/UP Fuse</td>
<td>10A</td>
<td>Backup Lamp-Left, Backup Lamp-Right</td>
</tr>
<tr>
<td>17</td>
<td>LO HDLP-RT Fuse</td>
<td>20A</td>
<td>Headlamp-Low Beam-Right</td>
</tr>
<tr>
<td>18</td>
<td>A/C CMPRSR Fuse</td>
<td>10A</td>
<td>A/C Compressor Clutch</td>
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<tr>
<td>19</td>
<td>ECM/THROT CONT Fuse</td>
<td>15A</td>
<td>Engine Control Module (ECM)</td>
</tr>
<tr>
<td>20</td>
<td>FUEL PUMP Fuse</td>
<td>20A</td>
<td>Fuel Pump and Sender Assembly-Primary</td>
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<tr>
<td>21</td>
<td>ITBC Fuse</td>
<td>15A</td>
<td>Integrated Trailer Brake Controller (ITBC) Module (JL1)</td>
</tr>
<tr>
<td>22</td>
<td>HDLP WASH Fuse</td>
<td>20A</td>
<td>Not Used</td>
</tr>
<tr>
<td>23</td>
<td>REAR WASH Fuse</td>
<td>15A</td>
<td>Not Used</td>
</tr>
<tr>
<td>24</td>
<td>TRLR PRK Fuse</td>
<td>15A</td>
<td>Trailer Wiring</td>
</tr>
<tr>
<td>25</td>
<td>LT PRK Fuse</td>
<td>15A</td>
<td>License Lamp-Left, Marker Lamp-LF (Z88), Park/Turn Signal Lamp-LF Upper, Park/Turn Signal Lamp-Lower, marker Lamp-LR (Z88), Tail/Stop and Turn Signal Lamp-Lower Left, Tail/Stop and Turn Signal Lamp-Lower Right, Clear- ance Lamp-LF (R05), Clearance Lamp-LR (R05), Clearance Lamp (U01), Roof Marker Lamp-Left (U01), Roof Marker Lamp-Right (U01)</td>
</tr>
<tr>
<td>26</td>
<td>RT PRK Fuse</td>
<td>15A</td>
<td>Marker Lamp-RF (Z88), Park/Turn Signal Lamp-RF Upper, Park/Turn Signal Lamp-RF Lower, Tail/Stop and Turn Signal Lamp-Lower Right, Tail/Stop and Turn Signal Lamp-Lower Right, Marker Lamp-RR (Z88), License Lamp-Right Clearance lamp-RR (R05), Marker Lamp-Tailgate</td>
</tr>
<tr>
<td>27</td>
<td>FOG LAMP Fuse</td>
<td>15A</td>
<td>Fog Lamp-LF (T96), Fog Lamp-LF (T96)</td>
</tr>
<tr>
<td>28</td>
<td>HORN Fuse</td>
<td>15A</td>
<td>Horn, left, Horn-Right (721)</td>
</tr>
<tr>
<td>29</td>
<td>HI HEADLAMP-RT Fuse</td>
<td>10A</td>
<td>Headlamp-High Beam-Right</td>
</tr>
<tr>
<td>30</td>
<td>DRL Fuse</td>
<td>15A</td>
<td>DRL 2 Fuse</td>
</tr>
<tr>
<td>31</td>
<td>HI HEADLAMP-LT Fuse</td>
<td>10A</td>
<td>Headlamp-High Beam-Right</td>
</tr>
<tr>
<td>32</td>
<td>DRL 2 Fuse</td>
<td>15A</td>
<td>LO HDLP-LT Fuse, LO HDLP-RT Fuse</td>
</tr>
<tr>
<td>33</td>
<td>S/ROOF Fuse</td>
<td>30A</td>
<td>Sunroof Module (CF5), Roof Beacon Relay (TRW)</td>
</tr>
<tr>
<td>34</td>
<td>DLIS Fuse</td>
<td>2A</td>
<td>Ignition Switch, Theft Deterrent Module (TDM)</td>
</tr>
<tr>
<td>35</td>
<td>WPR Fuse</td>
<td>25A</td>
<td>Wiper 1 PCB Relay</td>
</tr>
<tr>
<td>36</td>
<td>SEO B2 Fuse</td>
<td>30A</td>
<td>Emergency Vehicle Roof Lamp Relay (SY0)</td>
</tr>
</tbody>
</table>
## Fuse Block – Underhood, Device Usage – Diesel

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<thead>
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<th>No.</th>
<th>Device</th>
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<th>Description</th>
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<tbody>
<tr>
<td>37</td>
<td>EAP Fuse</td>
<td>15A</td>
<td>PARK ENABLE Relay, ELECTRONIC ADJUSTABLE PEDALS Relay, I/P Multi-function Accessory Switch</td>
</tr>
<tr>
<td>38</td>
<td>HVAC BATT Fuse</td>
<td>10A</td>
<td>HVAC Control Module</td>
</tr>
<tr>
<td>39</td>
<td>AIRBAG IGN Fuse</td>
<td>10A</td>
<td>Inflatable Restraint Sensing and Diagnostic Module (SDM), Inflatable Restraint Passenger Air Bag ON/OFF Indicator, Inflatable Restraint I/P Module Disable Switch (C99)</td>
</tr>
<tr>
<td>40</td>
<td>AMP Fuse</td>
<td>30A</td>
<td>Audio Amplifier (UQA)</td>
</tr>
<tr>
<td>41</td>
<td>RDO Fuse</td>
<td>15A</td>
<td>Digital Radio Receiver (U2K), Radio, Rear Seat Audio (RSA) Controller (UK6)</td>
</tr>
<tr>
<td>42</td>
<td>MISC IGN Fuse</td>
<td>10A</td>
<td>Auxiliary Body Control Module (XBCM) (Export), Stop Lamp Switch, Transfer Case Shift Control Module (NQF/NQH), Integrated Trailer Brake Controller (ITBC) Module (JL1)</td>
</tr>
<tr>
<td>43</td>
<td>L/GATE RELSE Fuse</td>
<td>15A</td>
<td>Not Used</td>
</tr>
<tr>
<td>44</td>
<td>AIRBAG BATT Fuse</td>
<td>15A</td>
<td>Inflatable Restraint Passenger Presence System (PPS) Module, Inflatable Restraint Sensing and Diagnostic Module (SDM), Inflatable Restraint Vehicle Roll-over Sensor (ASF)</td>
</tr>
<tr>
<td>45</td>
<td>INFOTMNT Fuse</td>
<td>15A</td>
<td>Video Display (U42), Rear Video Display (DNU), Vehicle Communication Interface Module (VCOM) (UE1)</td>
</tr>
<tr>
<td>46</td>
<td>IPC Fuse</td>
<td>10A</td>
<td>Body Control Module (BCM), Instrument Panel Cluster (IPC)</td>
</tr>
<tr>
<td>47</td>
<td>EXP/PTO Fuse</td>
<td>15A</td>
<td>Auxiliary Body Control Module (XBCM) (Export)/Power Take Off Relay (PTO)</td>
</tr>
<tr>
<td>48</td>
<td>AUX HVAC-IGN Fuse</td>
<td>10A</td>
<td>Instrument Panel Cluster (IPC), Inside Rearview Mirror (ISRVM), Heated Steering Wheel Module (KA9)</td>
</tr>
<tr>
<td>49</td>
<td>CHMSL Fuse</td>
<td>15A</td>
<td>Cargo Lamp/Center High Mounted Stop Lamp (CHMSL)</td>
</tr>
</tbody>
</table>

### Fuse Block – Underhood, Device Usage – Diesel (cont'd)

<table>
<thead>
<tr>
<th>No.</th>
<th>Device</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>REAR DEFOG Fuse</td>
<td>30A</td>
<td>Defogger Grid</td>
</tr>
<tr>
<td>51</td>
<td>HTD MIR Fuse</td>
<td>15A</td>
<td>Outside Rearview Mirror-Driver (-AN3), Outside Rearview Mirror-Passenger (-AN3)</td>
</tr>
<tr>
<td>52</td>
<td>SEO B1 Fuse</td>
<td>15A</td>
<td>Auxiliary Body Control Module (XBCM) (Export), Power Take Off-(PTO) Module</td>
</tr>
<tr>
<td>53</td>
<td>LTR Fuse</td>
<td>20A</td>
<td>Auxiliary Power Outlet-Front 1, Data Link Connector (DLC)</td>
</tr>
<tr>
<td>54</td>
<td>SEO/ALC Fuse</td>
<td>10A</td>
<td>Not Used</td>
</tr>
<tr>
<td>55</td>
<td>HVAC-IGN Fuse</td>
<td>10A</td>
<td>Air Temperature Actuator-Left (CJ2), Air Temperature Actuator-Right (CJ2), Air Temperature Actuator (C67), Mode Actuator, Recirculation Actuator (CJ2/C67)</td>
</tr>
<tr>
<td>56</td>
<td>ECM-IGN Fuse</td>
<td>15A</td>
<td>Engine Control Module (ECM), Fuel Pump Relay-Secondary (LY6-NQZ), Fuel System Control Module (FSCM)</td>
</tr>
<tr>
<td>57</td>
<td>ALC/COMP Fuse</td>
<td>40A</td>
<td>Not Used</td>
</tr>
<tr>
<td>58</td>
<td>HEAVY DUTY ABS Fuse</td>
<td>60A</td>
<td>Electronic Brake Control Module (EBCM)</td>
</tr>
<tr>
<td>60</td>
<td>STRTR Fuse</td>
<td>40A</td>
<td>Starter</td>
</tr>
<tr>
<td>61</td>
<td>STUD-2 Fuse</td>
<td>30A</td>
<td>Blunt Cut Wire, Integrated Trailer Brake Controller Solid State Relay (JL1)</td>
</tr>
<tr>
<td>62</td>
<td>LBECI Fuse</td>
<td>60A</td>
<td>AUX PWR 2 Fuse, REAR WPR Fuse, PDM Fuse, AUX PWR Fuse</td>
</tr>
<tr>
<td>63</td>
<td>ELEC RUN BOARD Fuse</td>
<td>30A</td>
<td>Not Used</td>
</tr>
<tr>
<td>64</td>
<td>WSW/HTR Fuse</td>
<td>60A</td>
<td>Windshield Washer Solvent Heater (XA7)</td>
</tr>
<tr>
<td>65</td>
<td>TREC Fuse</td>
<td>30A</td>
<td>Transfer Case Shift Control Module (NQF/NQH)</td>
</tr>
<tr>
<td>66</td>
<td>Stud-1 Fuse</td>
<td>40A</td>
<td>Trailer Wiring</td>
</tr>
<tr>
<td>67</td>
<td>MBEC1 Fuse</td>
<td>60A</td>
<td>DRIVER SEAT 2 Circuit Breaker, PASSENGER SEAT 1 Circuit Breaker</td>
</tr>
</tbody>
</table>
### Fuse Block – Underhood, Device Usage – Diesel

<table>
<thead>
<tr>
<th>No.</th>
<th>Device</th>
<th>Rating</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>68</td>
<td>HVAC BLWR Fuse</td>
<td>40A</td>
<td>Blower Motor Control Module</td>
</tr>
<tr>
<td>69</td>
<td>LGM Fuse</td>
<td>30A</td>
<td>Not Used</td>
</tr>
<tr>
<td>70</td>
<td>LBEC2 Fuse</td>
<td>60A</td>
<td>BCM Fuse, COOLED SEATS Fuse, DDM Fuse, DIM Fuse, DSM Fuse, REAR HVAC Fuse, RT STOP TRN Fuse, WSW PUMP Fuse</td>
</tr>
<tr>
<td>--</td>
<td>A/C COMPRSR Relay</td>
<td>--</td>
<td>A/C CMPRSR Fuse</td>
</tr>
<tr>
<td>--</td>
<td>ENG EXH VLV Relay</td>
<td>--</td>
<td>AXH VLV Fuse</td>
</tr>
<tr>
<td>--</td>
<td>FAN RLY Relay</td>
<td>--</td>
<td>Cooling Fan</td>
</tr>
<tr>
<td>--</td>
<td>FOG LAMP Relay</td>
<td>--</td>
<td>FOG LAMP Fuse</td>
</tr>
<tr>
<td>--</td>
<td>FUEL PUMP Relay</td>
<td>--</td>
<td>FUEL PUMP Fuse</td>
</tr>
<tr>
<td>--</td>
<td>HDLP LO/HID Relay</td>
<td>--</td>
<td>LO HDLP-LT Fuse, LO HDLP-RT Fuse</td>
</tr>
<tr>
<td>--</td>
<td>PARK LAMP Relay</td>
<td>--</td>
<td>LT PRK Fuse, PRK Fuse, TRLR PRK Fuse</td>
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<tr>
<td>--</td>
<td>PWR/TRN Relay</td>
<td>--</td>
<td>DSL ECM Fuse, ECM/THROT Fuse, ENG Fuse, Fan Fuse, FUEL HTR Fuse</td>
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<tr>
<td>--</td>
<td>REAR DEFOG Relay</td>
<td>--</td>
<td>REAR DEFOG Fuse</td>
</tr>
<tr>
<td>--</td>
<td>RUN/CRNK Relay</td>
<td>--</td>
<td>AIRBAG Fuse, AUX HVAC-IGN Fuse, IGN Fuse, ECM-IGN Fuse, MISC IGN Fuse, SEO/ALC Fuse, TRANS IGN 1 Fuse</td>
</tr>
<tr>
<td>--</td>
<td>STRTR Relay</td>
<td>--</td>
<td>STRTR Fuse</td>
</tr>
<tr>
<td>--</td>
<td>BCK/UP LAMP PCB Relay</td>
<td>--</td>
<td>VEH BCK/UP Fuse, TRLR BCK/UP Fuse</td>
</tr>
<tr>
<td>--</td>
<td>DRL PCB Relay</td>
<td>--</td>
<td>DRL Fuse</td>
</tr>
<tr>
<td>--</td>
<td>FRT WASH PCB Relay</td>
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<td>FRT WASH Fuse</td>
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### Fuse Block – Underhood, Device Usage – Diesel (cont'd)

<table>
<thead>
<tr>
<th>No.</th>
<th>Device</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>71</td>
<td>HI BEAM PCB Relay</td>
<td>--</td>
<td>HI HEADLAMP-LT Fuse, HI HEADLAMP-RT Fuse</td>
</tr>
<tr>
<td>72</td>
<td>HORN PCB Relay</td>
<td>--</td>
<td>HORN Fuse</td>
</tr>
<tr>
<td>73</td>
<td>L/GATE PCB Relay</td>
<td>--</td>
<td>L/GATE RELSE Fuse</td>
</tr>
<tr>
<td>74</td>
<td>LOCK PCB Relay</td>
<td>--</td>
<td>LCK 2 Fuse (YE9)</td>
</tr>
<tr>
<td>75</td>
<td>LOCK/UNLOCK PCB Relay</td>
<td>--</td>
<td>LCK 1 Fuse, LCK 2 Fuse, UNLCK 1 Fuse, UNLCK 2 Fuse (AU3-YE9)</td>
</tr>
<tr>
<td>76</td>
<td>REAR WASH PCB Relay</td>
<td>--</td>
<td>REAR WASH Fuse</td>
</tr>
<tr>
<td>77</td>
<td>TRLR STOP LT PCB Relay</td>
<td>--</td>
<td>TRLR STOP LT Fuse</td>
</tr>
<tr>
<td>78</td>
<td>TRLR STOP RT PCB Relay</td>
<td>--</td>
<td>TRLR STOP RT Fuse</td>
</tr>
<tr>
<td>79</td>
<td>UNLOCK PCB Relay</td>
<td>--</td>
<td>DRV UNLK Fuse, UNLK 1 Fuse, UNLK 2 Fuse</td>
</tr>
<tr>
<td>80</td>
<td>WIPER CONTROL PCB Relay</td>
<td>--</td>
<td>Windshield Wiper Motor</td>
</tr>
<tr>
<td>81</td>
<td>WIPER SPEED PCB Relay</td>
<td>--</td>
<td>Windshield Wiper Motor</td>
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Note: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.
### Fuse Block – Underhood, Device Usage – Gas

<table>
<thead>
<tr>
<th>No.</th>
<th>Device</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TRLR STOP RT Fuse</td>
<td>10A</td>
<td>Trailer Wiring, Auxiliary Body Control Module (XBCM) (Export)</td>
</tr>
<tr>
<td>2</td>
<td>EXH VLV Fuse</td>
<td>30A</td>
<td>Not Used</td>
</tr>
<tr>
<td>3</td>
<td>ESC/ALC EXH Fuse</td>
<td>30A</td>
<td>Not Used</td>
</tr>
<tr>
<td>4</td>
<td>TRLR STOP LT Fuse</td>
<td>10A</td>
<td>Central Sequential Fuel Injection (Central SFI) (4.3L), Evaporative Emissions (EVAP) Cannister Purge Solenoid Valve (4.8L, 5.3L, 6.0L and 6.2L), Mass Air Flow (MAF)/Intake Air Temperature (IAT) Sensor, Valve Lifter Oil Manifold (VLOM) Assembly</td>
</tr>
<tr>
<td>5</td>
<td>ENG Fuse</td>
<td>15A</td>
<td>Engine Control Module (ECM)</td>
</tr>
<tr>
<td>6</td>
<td>ECM/THROT CONT Fuse</td>
<td>15A</td>
<td>Integrated Trailer Brake Controller (ITBC) Module (JL1)</td>
</tr>
<tr>
<td>7</td>
<td>FRT WASH Fuse</td>
<td>15A</td>
<td>Windshield Washer Fluid Pump</td>
</tr>
<tr>
<td>8</td>
<td>02-B SNSR Fuse</td>
<td>10A</td>
<td>Heated Oxygen Sensor (H02S) Bank 1 Sensor 2, Heated Oxygen Sensor (H02S) Bank 2 Sensor 2</td>
</tr>
<tr>
<td>9</td>
<td>ABS 2 Fuse</td>
<td>25A</td>
<td>Electronic Brake Control Module (EBCM)</td>
</tr>
<tr>
<td>10</td>
<td>TRLR BCK/UP Fuse</td>
<td>10A</td>
<td>Trailer Wiring</td>
</tr>
<tr>
<td>11</td>
<td>LO HDLP-LT Fuse</td>
<td>20A</td>
<td>Headlamp-Low Beam-Left</td>
</tr>
<tr>
<td>12</td>
<td>ECM-BATT Fuse</td>
<td>10A</td>
<td>Engine Control Module (ECM)</td>
</tr>
<tr>
<td>13</td>
<td>INJ-B Fuse</td>
<td>20A</td>
<td>Fuel Injector2, Fuel Injector 4, Fuel Injector 6, Fuel Injector 8, Injector Coil 2, Ignition Coil 4, Ignition Coil 6, Ignition Coil 8</td>
</tr>
<tr>
<td>14</td>
<td>TCM-BATT Fuse</td>
<td>15A</td>
<td>Transmission Control Module (TCM)</td>
</tr>
<tr>
<td>15</td>
<td>DSL ECM Fuse</td>
<td>25A</td>
<td>Engine Control Module (ECM)</td>
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<tr>
<td>16</td>
<td>TRANS IGN 1 Fuse</td>
<td>15A</td>
<td>Transmission Control Module (TCM), Front Axle Actuator (NQF/NQG)</td>
</tr>
<tr>
<td>17</td>
<td>VEH BACK/UP Fuse</td>
<td>10A</td>
<td>Backup Lamp-Left, Backup Lamp-Right</td>
</tr>
<tr>
<td>18</td>
<td>LO HDLP-RT Fuse</td>
<td>20A</td>
<td>Headlamp-Low Beam-Right</td>
</tr>
<tr>
<td>19</td>
<td>A/C CMPRSR Fuse</td>
<td>10A</td>
<td>A/C Compressor Clutch</td>
</tr>
<tr>
<td>20</td>
<td>02-A SNSR Fuse</td>
<td>10A</td>
<td>Transmission Control Module (TCM), 1-2 Shift Solenoid (1-2 SS) Valve, 2-3 Shift Solenoid (2-3 SS) Valve, 3-2 Shift Solenoid (3-2 SS) Valve (M30/M70), Torque Converter Clutch (TCC) Solenoid Valve (M30/M70), Torque Converter Clutch Pulse Width Modulation (TCC PWM) Solenoid Valve</td>
</tr>
<tr>
<td>21</td>
<td>TRANS IGN 1 Fuse</td>
<td>15A</td>
<td>Fuel Pump and Sender Assembly-Primary (-FSCM)</td>
</tr>
<tr>
<td>22</td>
<td>FSCM Fuse</td>
<td>20A</td>
<td>Fuel System Control Module (FSCM)</td>
</tr>
<tr>
<td>23</td>
<td>HDLP WASH Fuse</td>
<td>20A</td>
<td>Not Used</td>
</tr>
<tr>
<td>24</td>
<td>REAR WASH Fuse</td>
<td>15A</td>
<td>Not Used</td>
</tr>
<tr>
<td>25</td>
<td>INJ-A Fuse</td>
<td>20A</td>
<td>Fuel Injector 1, Fuel Injector 3, Fuel Injector 5, Fuel Injector 7, Ignition Coil 1, Ignition Coil 3, Ignition Coil 5, Ignition Coil 7</td>
</tr>
<tr>
<td>26</td>
<td>TRLR PRK Fuse</td>
<td>15A</td>
<td>License Lamp-Left, Marker Lamp-LF (Z-88), Park/Turn Signal Lamp-LF Upper, Park/Turn Signal Lamp-LF Lower, Marker Lamp-LR (Z88), Tail/Stop and Turn Signal Lamp-Lower Left, Tail/Stop and Turn Signal Lamp-Upper Left, Clearance Lamp-LF (R05), Clearance Lamp-LR (R05), Clearance Lamp (U01), Roof Marker Lamp-Left (U01), Roof Marker Lamp-Right (U01)</td>
</tr>
</tbody>
</table>
### Fuse Block – Underhood, Device Usage – Gas (cont'd)

<table>
<thead>
<tr>
<th>No.</th>
<th>Device</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>RT PRK Fuse</td>
<td>15A</td>
<td>Marker Lamp-RF (Z88), Park/Turn Signal Lamp-RF Upper Park/Turn Signal Lamp-RF Lower Tail/Stop and Turn Signal Lamp-Lower Right, Tail/Stop and Turn Signal Lamp-Lower Right, Marker Lamp-RR (Z88), License Lamp-Right Clearance Lamp-RF (R05), Clearance Lamp-RR (R05), Marker Lamp-Tailgate</td>
</tr>
<tr>
<td>31</td>
<td>FOG LAMP Fuse</td>
<td>15A</td>
<td>Fog Lamp-LF (T-96), Fog Lamp- LF (T96)</td>
</tr>
<tr>
<td>32</td>
<td>HORN Fuse</td>
<td>15A</td>
<td>Horn-Left, Horn-Right (7Z1)</td>
</tr>
<tr>
<td>33</td>
<td>HI HEADLAMP-LT Fuse</td>
<td>10A</td>
<td>Headlamp-High Beam-Right</td>
</tr>
<tr>
<td>34</td>
<td>DRL Fuse</td>
<td>15A</td>
<td>DRL 2 Fuse</td>
</tr>
<tr>
<td>35</td>
<td>HI HEADLAMP-LT Fuse</td>
<td>10A</td>
<td>Headlamp-High Beam-Right</td>
</tr>
<tr>
<td>36</td>
<td>DRL 2 Fuse</td>
<td>15A</td>
<td>LO HDLP-LT Fuse, LO HDLP-RT Fuse</td>
</tr>
<tr>
<td>37</td>
<td>S/ROOF Fuse</td>
<td>30A</td>
<td>Sunroof Module (CF5), Roof Beacon Relay (TRW)</td>
</tr>
<tr>
<td>38</td>
<td>DLIS Fuse</td>
<td>2A</td>
<td>Ignition Switch, Theft Deterrent Module (TDM)</td>
</tr>
<tr>
<td>39</td>
<td>FRT WPR Fuse</td>
<td>25A</td>
<td>Wiper 1 PCV Relay</td>
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<tr>
<td>40</td>
<td>SEO B2 Fuse</td>
<td>30A</td>
<td>Emergency Vehicle Roof Lamp Relay (SY0)</td>
</tr>
<tr>
<td>41</td>
<td>EAP Fuse</td>
<td>15A</td>
<td>PARK ENABLE Relay, ELECTRONIC ADJUSTABLE PEDALS Relay, I/P Multifunction Accessory Switch</td>
</tr>
<tr>
<td>42</td>
<td>HVAC BATT Fuse</td>
<td>10A</td>
<td>HVAC Control Module</td>
</tr>
<tr>
<td>43</td>
<td>AIRBAG IGN Fuse</td>
<td>10A</td>
<td>Inflatable Restraint Sensing and Diagnostic Module (SDM), Inflatable Restraint Passenger Air Bag ON/OFF Indicator, Inflatable Restraint I/P Module Disable Switch (C99)</td>
</tr>
<tr>
<td>44</td>
<td>AMP Fuse</td>
<td>30A</td>
<td>Audio Amplifier (UQA)</td>
</tr>
</tbody>
</table>

### Fuse Block – Underhood, Device Usage – Gas

<table>
<thead>
<tr>
<th>No.</th>
<th>Device</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>45</td>
<td>RDO Fuse</td>
<td>15A</td>
<td>Digital Radio Receiver (U2K), Radio, Rear Seat Audio (RSA) Controller (UK6)</td>
</tr>
<tr>
<td>46</td>
<td>MISC IGN Fuse</td>
<td>10A</td>
<td>Auxiliary Body Control Module (XBCM) (Export), Stop Lamp Switch, Transfer Case Shift Control Module (NQF/NQH), Integrated Trailer Brake Controller (ITBC) Module (JL1)</td>
</tr>
<tr>
<td>47</td>
<td>L/GATE RELSE Fuse</td>
<td>15A</td>
<td>Inflatable Restraint Passenger Presence System (PPS) Module, Inflatable Restraint Sensing and Diagnostic Module (SDM), Inflatable Restraint Vehicle Roll-over Sensor (ASF)</td>
</tr>
<tr>
<td>48</td>
<td>AIRBAG BATT Fuse</td>
<td>15A</td>
<td>Video Display (U42), Rear Video Display (DNU), Vehicle Communication Interface Module (VCIM) (UE1)</td>
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<tr>
<td>49</td>
<td>INFOTMNT Fuse</td>
<td>15A</td>
<td>Auxiliary Body Control Module (XBCM) (Export) Power Take off Relay (PTO)</td>
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<tr>
<td>50</td>
<td>IPC Fuse</td>
<td>15A</td>
<td>Auxiliary Body Control Module (XBCM) (Export) Power Take off Relay (PTO)</td>
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<tr>
<td>51</td>
<td>EXP/PTO Fuse</td>
<td>20A</td>
<td>Fuel System Control Module (FSCM)</td>
</tr>
<tr>
<td>52</td>
<td>AUX HVAC-IGN Fuse</td>
<td>10A</td>
<td>Instrument Panel Cluster (IPC), Inside Rearview Mirror (ISRV), Heated Steering Wheel Module (KA9)</td>
</tr>
<tr>
<td>53</td>
<td>CHMSL Fuse</td>
<td>15A</td>
<td>Cargo Lamp/Center High Mounted Stop Lamp (CHMSL)</td>
</tr>
<tr>
<td>54</td>
<td>REAR DEFOG Fuse</td>
<td>30A</td>
<td>Defogger Grid</td>
</tr>
<tr>
<td>55</td>
<td>HTD MIR Fuse</td>
<td>15A</td>
<td>Outside Rearview Mirror-Driver (-AN3), Outside Rearview Mirror-Passenger (-AN3)</td>
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<tr>
<td>56</td>
<td>SEO B1 Fuse</td>
<td>15A</td>
<td>Auxiliary Body Control Module (XBCM) (Export), Power Take Off-(PTO) Module</td>
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<tr>
<td>57</td>
<td>LTR Fuse</td>
<td>20A</td>
<td>Auxiliary Power Outlet-Front 1, DataLink Connector (DLC)</td>
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<tr>
<td>58</td>
<td>SEO/ALC Fuse</td>
<td>10A</td>
<td>Not Used</td>
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## Power Distribution: Pickup – Underhood, Device Usage – Gas (cont'd)

<table>
<thead>
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<th>No.</th>
<th>Device</th>
<th>Rating</th>
<th>Description</th>
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<tbody>
<tr>
<td>59</td>
<td>HAVAC-IGN Fuse</td>
<td>10A</td>
<td>Air Temperature Actuator-Left (CJ2), Air Temperature Actuator-Right (CJ2), Air Temperature Actuator (C67), Mode Actuator, Recirculation Actuator (CJ2/C67)</td>
</tr>
<tr>
<td>60</td>
<td>ECM-IGN Fuse</td>
<td>15A</td>
<td>Engine Control Module (ECM), Fuel Pump Relay-Secondary (LY6-NQZ), Fuel System Control Module (FSCM)</td>
</tr>
<tr>
<td>61</td>
<td>FAN-1 Fuse</td>
<td>40A</td>
<td>FAN LO Relay</td>
</tr>
<tr>
<td>62</td>
<td>ALC/COMP Fuse</td>
<td>40A</td>
<td>Not Used</td>
</tr>
<tr>
<td>63</td>
<td>HEAVY DUTY ABS Fuse</td>
<td>60A</td>
<td>Electronic Brake Control Module (EBCM)</td>
</tr>
<tr>
<td>64</td>
<td>FAN-2 Fuse</td>
<td>40A</td>
<td>FAN HI Relay</td>
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<tr>
<td>65</td>
<td>ABS-1 Fuse</td>
<td>40A</td>
<td>Electronic Brake Control Module (ECBM)</td>
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<tr>
<td>66</td>
<td>STRTR Fuse</td>
<td>40A</td>
<td>Starter</td>
</tr>
<tr>
<td>67</td>
<td>STUD-1 Fuse</td>
<td>30A</td>
<td>Blunt Cut Wire, Integrated Trailer Brake Controller Solid State Relay (JL1)</td>
</tr>
<tr>
<td>68</td>
<td>LBEC1 Fuse</td>
<td>60A</td>
<td>AUX PWR 2 Fuse, REAR WPR Fuse, PDM Fuse, AUX PWR Fuse</td>
</tr>
<tr>
<td>69</td>
<td>ELEC RUN BOARD Fuse</td>
<td>30A</td>
<td>Not Used</td>
</tr>
<tr>
<td>70</td>
<td>WSW/HTR Fuse</td>
<td>60A</td>
<td>Windshield Washer Solvent Heater (XA7)</td>
</tr>
<tr>
<td>71</td>
<td>TREC Fuse</td>
<td>30A</td>
<td>Transfer Case Shift Control Module (NOF/NQH)</td>
</tr>
<tr>
<td>72</td>
<td>STUD-1 Fuse</td>
<td>40A</td>
<td>Trailer Wiring</td>
</tr>
<tr>
<td>73</td>
<td>MBEC1 Fuse</td>
<td>60A</td>
<td>DRIVER SEAT 2 Circuit Breaker, PASSENGER SEAT 1 Circuit Breaker, PWR REAR WNDW Circuit Breaker</td>
</tr>
<tr>
<td>74</td>
<td>HVAC BLWR Fuse</td>
<td>40A</td>
<td>Blower Motor Control Module</td>
</tr>
<tr>
<td>75</td>
<td>LGM Fuse</td>
<td>30A</td>
<td>Not Used</td>
</tr>
<tr>
<td>76</td>
<td>LBEC2 Fuse</td>
<td>60A</td>
<td>BCM Fuse, COOLED SEATS Fuses, DDM Fuse, DIM Fuse, DSM Fuse, REAR HVAC Fuse, RT STOP TRN Fuse, WSW PUMP Fuse</td>
</tr>
<tr>
<td>77</td>
<td>A/C COMPRSR Relay</td>
<td>--</td>
<td>A/C COMPRSR Fuse</td>
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<tr>
<td>78</td>
<td>ENG EXH VLV Relay</td>
<td>--</td>
<td>AXH VLV Fuse</td>
</tr>
<tr>
<td>79</td>
<td>FAN CONTROL Relay</td>
<td>--</td>
<td>Cooling Fan Control</td>
</tr>
<tr>
<td>80</td>
<td>FAN HI Relay</td>
<td>--</td>
<td>Cooling Fan-Right</td>
</tr>
<tr>
<td>81</td>
<td>FAN LO Relay</td>
<td>--</td>
<td>Cooling Fan-Left</td>
</tr>
<tr>
<td>82</td>
<td>FOG LAMP Relay</td>
<td>--</td>
<td>FOG LAMP Fuse</td>
</tr>
<tr>
<td>83</td>
<td>FUEL PMP Relay</td>
<td>--</td>
<td>FUEL PUMP Fuse</td>
</tr>
<tr>
<td>84</td>
<td>HDLP LO/HID Relay</td>
<td>--</td>
<td>LO HDLP-LT Fuse, LO HDLP-RT Fuse, DRL 2 Fuse</td>
</tr>
<tr>
<td>85</td>
<td>PRK LAMP Relay</td>
<td>--</td>
<td>LT PRK Fuse, RT PRK Fuse, TRLR PRK Fuse</td>
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<tr>
<td>86</td>
<td>PWR/TRN Relay</td>
<td>--</td>
<td>ECM/THROT CONT Fuse, ENG Fuse, INJ-A Fuse, INJ-B Fuse, 01-A SNSR Fuse, 02-B SNSR Fuse, FAN CNTRL PCB Relay, FAN HI PCB Relay, FAN LO PCB Relay</td>
</tr>
<tr>
<td>87</td>
<td>REAR DEFOG Relay</td>
<td>--</td>
<td>REAR DEFOG Fuse</td>
</tr>
<tr>
<td>88</td>
<td>RUN/CRNK Relay</td>
<td>--</td>
<td>AIRBAG Fuse, AUX HVAC-IGN Fuse, IGN Fuse, ECM-IGN Fuse, MISI IGN Fuse, SEO/ALC Fuse, TRANS IGN 1 Fuse</td>
</tr>
<tr>
<td>89</td>
<td>STRTR Relay</td>
<td>--</td>
<td>Starter</td>
</tr>
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</table>
### Fuse Block – Underhood, Device Usage – Gas

Note: Relays listed below are non-serviceable Printed Circuit Board (PCB) relays and are internal to the block.

<table>
<thead>
<tr>
<th>No.</th>
<th>Device</th>
<th>Rating</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>--</td>
<td>BCK/UP LAMP PCB</td>
<td>--</td>
<td>VEH BCK/UP, TRLR BCK/UP Fuse</td>
</tr>
<tr>
<td>--</td>
<td>DRL PCB Relay</td>
<td>--</td>
<td>DRL Fuse</td>
</tr>
<tr>
<td>--</td>
<td>FRT WASH PCB Relay</td>
<td>--</td>
<td>FRT WASH Fuse</td>
</tr>
<tr>
<td>--</td>
<td>HI BEAM PCB Relay</td>
<td>--</td>
<td>HI HEADLAMP-LT, HI HEADLAMP-RT Fuse</td>
</tr>
<tr>
<td>--</td>
<td>HORN PCB Relay</td>
<td>--</td>
<td>HORN Fuse</td>
</tr>
<tr>
<td>--</td>
<td>L/GATE PCB Relay</td>
<td>--</td>
<td>L/GATE RELSE Fuse</td>
</tr>
<tr>
<td>--</td>
<td>LOCK PCB Relay</td>
<td>--</td>
<td>LCK 2 Fuse (YE9)</td>
</tr>
<tr>
<td>--</td>
<td>LOCK/UNLOCK PCB Relay</td>
<td>--</td>
<td>LCK 1 Fuse, LCK 2 Fuse, UNLCK 1 Fuse, UNLCK 2 Fuse (AU3-YE9)</td>
</tr>
<tr>
<td>--</td>
<td>REAR WASH PCB Relay</td>
<td>--</td>
<td>REAR WASH Fuse</td>
</tr>
<tr>
<td>--</td>
<td>TRLR STOP LT PCB Relay</td>
<td>--</td>
<td>TRLR STOP LT Fuse</td>
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<td>--</td>
<td>TRLR STOP RT PCB Relay</td>
<td>--</td>
<td>TRLR STOP RT Fuse</td>
</tr>
<tr>
<td>--</td>
<td>UNLOCK PCB Relay</td>
<td>--</td>
<td>DRV UNLCK, UNLCK 1 Fuse, UNLCK 2 Fuse</td>
</tr>
<tr>
<td>--</td>
<td>WIPER CONTROL PCB Relay</td>
<td>--</td>
<td>Windshield Wiper Motor</td>
</tr>
<tr>
<td>--</td>
<td>WIPER SPEED PCB Relay</td>
<td>--</td>
<td>Windshield Wiper Motor</td>
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</table>
Mating Connector Part Information

- Connector: 4-Way F Metri-Pack 280 Series (CRM)
- OEM: 12194033
- Color: CRM

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>D-GN/WH</td>
<td>817</td>
<td>Vehicle Speed Signal 4KPPM</td>
</tr>
<tr>
<td>B</td>
<td>--</td>
<td>--</td>
<td>Not used</td>
</tr>
<tr>
<td>C</td>
<td>D-GN</td>
<td>5060</td>
<td>Low Speed GMLAN Serial Data</td>
</tr>
<tr>
<td>D</td>
<td>RD/BK</td>
<td>4550</td>
<td>15A BATT</td>
</tr>
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</table>

Note: Keying for Connector 12194033 is shown in part drawing as type 103
Circuit Breakers

CB1 = RT DOORS ............................. (25A)
CB2 = PASS SEAT 1 ............................ (25A)
CB3 = DRIVER SEAT 2 .......................... (25A)
CB4 = PWR REAR WNDW .......................... (25A)

Junction Block - Left I/P, Device Usage

<table>
<thead>
<tr>
<th>Device</th>
<th>Rating</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>DRIVER SEAT 2 Circuit Breaker</td>
<td>25A</td>
<td>Memory Seat Module (AN3), Seat Adjuster Switch-Driver (AG1 Except AN3)</td>
</tr>
<tr>
<td>PASS SEAT 1 Circuit Breaker</td>
<td>25A</td>
<td>Seat Adjuster Switch-Passenger, Seat Lumbar Switch-Passenger (AN3)</td>
</tr>
<tr>
<td>PWR REAR WNDW Circuit Breaker</td>
<td>25A</td>
<td>Not Used</td>
</tr>
<tr>
<td>RT DOORS Circuit Breaker</td>
<td>25A</td>
<td>Passenger Door Module (PDM), Window Switch-RR</td>
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Junction Block - Left I/P, Top View
Power Distribution: Pickup – Junction Block-Left I/P-X1

Junction Block - Left I/P - X1
Connector Part Information

• OEM: 15467568
• Service: 19115661
• Description: 50-way F GT 280 Series (GY)

Junction Block - Left I/P, X1

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
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<tbody>
<tr>
<td>A1</td>
<td>0.5 RD/WH</td>
<td>4440</td>
<td>Battery Positive Voltage</td>
</tr>
<tr>
<td>A2</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>A3</td>
<td>0.35 PK</td>
<td>239</td>
<td>Ignition 1 Voltage</td>
</tr>
<tr>
<td></td>
<td>0.35 PK</td>
<td>239</td>
<td>Ignition 1 Voltage (NQF/NQH)</td>
</tr>
<tr>
<td>A4</td>
<td>0.35 PK</td>
<td>239</td>
<td>Ignition 1 Voltage</td>
</tr>
<tr>
<td></td>
<td>0.8 PK</td>
<td>239</td>
<td>Ignition 1 Voltage (PTO/EXPORT)</td>
</tr>
<tr>
<td>A5</td>
<td>BK</td>
<td>2550</td>
<td>Ground (U42/UK6)</td>
</tr>
<tr>
<td>B1-B2</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>B3</td>
<td>1 BK</td>
<td>2550</td>
<td>Ground</td>
</tr>
<tr>
<td>B4</td>
<td>0.5 GY</td>
<td>157</td>
<td>Courtesy Lamp Control</td>
</tr>
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<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>C1</td>
<td>0.35 PK</td>
<td>1639</td>
<td>Ignition 1 Voltage</td>
</tr>
<tr>
<td>C2</td>
<td>0.35 BN/WH</td>
<td>230</td>
<td>Instrument Panel Lamps Dimming Control</td>
</tr>
<tr>
<td></td>
<td>0.35 BN/WH</td>
<td>230</td>
<td>Instrument Panel Lamps Dimming Control (AU3)</td>
</tr>
<tr>
<td>C3</td>
<td>0.5 BK</td>
<td>2250</td>
<td>Ground (U2K + Y91)</td>
</tr>
<tr>
<td>C4</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
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(continued on Pg. B-19)
## Power Distribution: Pickup – Junction Block-Left I/P-Connector X1 (cont'd)

### Junction Block - Left I/P - X1 (continued from Pg. B-18)

<table>
<thead>
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<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
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<tbody>
<tr>
<td>C5</td>
<td>0.5 YE/BK</td>
<td>5813</td>
<td>Park Enable Supply Voltage (JF4 -AN3)</td>
</tr>
<tr>
<td>D1</td>
<td>2 RD/WH</td>
<td>1340</td>
<td>Battery Positive Voltage (A31)</td>
</tr>
<tr>
<td>D2</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>D3</td>
<td>0.35 BN/WH</td>
<td>230</td>
<td>Instrument Panel Lamps Dimming Control (AU3 -AN3)</td>
</tr>
<tr>
<td></td>
<td>0.5 BN/WH</td>
<td>230</td>
<td>Instrument Panel Lamps Dimming Control (CF5)</td>
</tr>
<tr>
<td>D4-D5</td>
<td>--</td>
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<td>Not Used</td>
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<tr>
<td>E1</td>
<td>0.5 BK/WH</td>
<td>1851</td>
<td>Ground (XA7)</td>
</tr>
<tr>
<td>E2</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>E3</td>
<td>0.8 BK/WH</td>
<td>1851</td>
<td>Ground</td>
</tr>
<tr>
<td></td>
<td>0.5 BK/WH</td>
<td>1851</td>
<td>Ground (C42/C67/CJ2)</td>
</tr>
<tr>
<td>F1</td>
<td>5 RD/WH</td>
<td>642</td>
<td>Battery Positive Voltage</td>
</tr>
<tr>
<td>G1</td>
<td>0.8 BK/WH</td>
<td>1851</td>
<td>Ground</td>
</tr>
<tr>
<td></td>
<td>0.8 BK/WH</td>
<td>1851</td>
<td>Ground</td>
</tr>
<tr>
<td>H1</td>
<td>0.5 BK/WH</td>
<td>1851</td>
<td>Ground</td>
</tr>
<tr>
<td></td>
<td>0.5 BK/WH</td>
<td>1851</td>
<td>Ground</td>
</tr>
<tr>
<td>J1</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>K1</td>
<td>0.5 BK/WH</td>
<td>1851</td>
<td>Ground</td>
</tr>
<tr>
<td></td>
<td>0.35 BK/WH</td>
<td>1851</td>
<td>Ground (C42/C67/CJ2)</td>
</tr>
<tr>
<td>K2</td>
<td>2 BK/WH</td>
<td>1851</td>
<td>Ground</td>
</tr>
<tr>
<td>K3</td>
<td>0.8 BK/WH</td>
<td>1851</td>
<td>Ground</td>
</tr>
<tr>
<td></td>
<td>0.8 BK/WH</td>
<td>1851</td>
<td>Ground</td>
</tr>
<tr>
<td>L1</td>
<td>0.5 OG</td>
<td>6815</td>
<td>Inadvertent Power Control</td>
</tr>
<tr>
<td>L2</td>
<td>0.5 RD/WH</td>
<td>240</td>
<td>Battery Positive Voltage  (UGI / 5X7 / 5Y0 / TRW)</td>
</tr>
<tr>
<td>L3</td>
<td>0.35 PU/WH</td>
<td>6816</td>
<td>Indicator Dimming Control</td>
</tr>
<tr>
<td>L4</td>
<td>0.35 WH/BK</td>
<td>5515</td>
<td>Inside Air Temperature Sensor Assembly Control (CJ2)</td>
</tr>
<tr>
<td>L5</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>M1</td>
<td>0.5 BN/WH</td>
<td>230</td>
<td>Instrument Panel Lamps Dimming Control</td>
</tr>
<tr>
<td>M2</td>
<td>0.35 PK</td>
<td>1691</td>
<td>Low Reference (DF5 +DL3/DR4)</td>
</tr>
<tr>
<td>M3</td>
<td>0.35 PU/WH</td>
<td>6816</td>
<td>Indicator Dimming Control (UD7/XA7)</td>
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<tr>
<td>M4</td>
<td>0.35 D-GN</td>
<td>734</td>
<td>Inside Air Temperature Sensor Signal (CJ2)</td>
</tr>
<tr>
<td>M5</td>
<td>0.5 OG</td>
<td>1054</td>
<td>Stop Lamp Supply Voltage (Domestic)</td>
</tr>
<tr>
<td></td>
<td>0.5 OG</td>
<td>1054</td>
<td>Stop Lamp Supply Voltage (Domestic)</td>
</tr>
<tr>
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<td>0.5 L-BN</td>
<td>1320</td>
<td>Stop Lamp Supply Voltage (Export)</td>
</tr>
<tr>
<td>N1</td>
<td>0.35 D-GN/WH</td>
<td>636</td>
<td>Ambient Air Temperature Sensor Signal (DF5)</td>
</tr>
<tr>
<td>N2</td>
<td>0.35 YE</td>
<td>61</td>
<td>Low Reference (DF5)</td>
</tr>
<tr>
<td>N3</td>
<td>0.35 PU/WH</td>
<td>6816</td>
<td>Indicator Dimming Control (PTO)</td>
</tr>
<tr>
<td>N4</td>
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<td>Not Used</td>
</tr>
<tr>
<td>N5</td>
<td>0.35 PK</td>
<td>1139</td>
<td>Ignition 1 Voltage</td>
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<tr>
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<td>0.35 PK</td>
<td>1139</td>
<td>Ignition 1 Voltage (C99)</td>
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(continued on Pg. B-20)
### Junction Block - Left I/P - X1 (continued from Pg. B-19)

<table>
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<th>Pin</th>
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<th>Circuit No.</th>
<th>Function</th>
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</thead>
<tbody>
<tr>
<td>P1</td>
<td>0.35 D-BU</td>
<td>38</td>
<td>Backup Lamp Relay Control</td>
</tr>
<tr>
<td></td>
<td>0.35 D-BU</td>
<td>38</td>
<td>Backup Lamp Relay Control (DF5)</td>
</tr>
<tr>
<td>P2</td>
<td>0.35 GY</td>
<td>1690</td>
<td>Automatic Day/Night Mirror Signal (DF5 +DL3/DR4)</td>
</tr>
<tr>
<td>P3</td>
<td>0.35 PU/WH</td>
<td>6816</td>
<td>Indicator Dimming Control (NQF/NQH)</td>
</tr>
<tr>
<td>P4</td>
<td>--</td>
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<td>Not Used</td>
</tr>
<tr>
<td>P5</td>
<td>0.35 D-GN</td>
<td>6101</td>
<td>Low Reference</td>
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### Junction Block - Left I/P, X2

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<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>0.35 PK</td>
<td>739</td>
<td>Ignition 1 Voltage</td>
</tr>
<tr>
<td>A2</td>
<td>0.35 YE</td>
<td>43</td>
<td>Accessory Voltage</td>
</tr>
<tr>
<td></td>
<td>0.35 YE</td>
<td>43</td>
<td>Accessory Voltage</td>
</tr>
<tr>
<td>A3-A4</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>A5</td>
<td>0.8 RD/WH</td>
<td>1040</td>
<td>Battery Positive Voltage (D07-Y91)</td>
</tr>
<tr>
<td>B1</td>
<td>0.5 RD/WH</td>
<td>242</td>
<td>Battery Positive Voltage (5Y0)</td>
</tr>
<tr>
<td>B3-B4</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>B5</td>
<td>0.5 RD/WH</td>
<td>3240</td>
<td>Battery Positive Voltage (-Y91 +UE1 +U42)</td>
</tr>
<tr>
<td>C1</td>
<td>0.5 YE/BK</td>
<td>5813</td>
<td>Park Enable Supply Voltage (JF4)</td>
</tr>
<tr>
<td>C2</td>
<td>3 BK</td>
<td>2550</td>
<td>Ground (Y91)</td>
</tr>
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<td>C3</td>
<td>0.5 RD/BK</td>
<td>340</td>
<td>Battery Positive Voltage</td>
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<tr>
<td>C4-C5</td>
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<td>Not Used</td>
</tr>
<tr>
<td>D1</td>
<td>2 BK</td>
<td>1050</td>
<td>Ground (JF4 -AN3)</td>
</tr>
<tr>
<td>D2</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>D3</td>
<td>0.8 RD/BK</td>
<td>4540</td>
<td>Battery Positive Voltage</td>
</tr>
<tr>
<td></td>
<td>0.8 RD/BK</td>
<td>4540</td>
<td>Battery Positive Voltage (PTO/EXPORT)</td>
</tr>
<tr>
<td>D4-D5</td>
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<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>E1</td>
<td>0.5 OG/BK</td>
<td>5285</td>
<td>Adjustable Pedals Relay Rearward Control (JF4)</td>
</tr>
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<td>E2</td>
<td>0.5 RD/WH</td>
<td>740</td>
<td>Battery Positive Voltage (JF4)</td>
</tr>
<tr>
<td>E3</td>
<td>0.35 YE</td>
<td>6812</td>
<td>Out of Park Signal (JF4 -AN3)</td>
</tr>
<tr>
<td>G1</td>
<td>0.5 PU</td>
<td>5286</td>
<td>Adjustable Pedals Relay Forward Control (JF4)</td>
</tr>
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(continued on Pg. B-21)
### Power Distribution: Pickup – Junction Block-Left I/P-Connector X2 (cont'd) & X3

#### Junction Block - Left I/P - X2 (continued from Pg. B-20)

<table>
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<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
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<tbody>
<tr>
<td>H1</td>
<td>0.35 D-GN/WH</td>
<td>817</td>
<td>Vehicle Speed Signal</td>
</tr>
<tr>
<td></td>
<td>0.5 D-GN/WH</td>
<td>817</td>
<td>Vehicle Speed Signal (Y91)</td>
</tr>
<tr>
<td>K1</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>K2</td>
<td>0.35 YE</td>
<td>6817</td>
<td>LED Backlight Dimming Control</td>
</tr>
<tr>
<td>K3</td>
<td>0.35 D-GN</td>
<td>5060</td>
<td>Low Speed GMLAN Serial Data</td>
</tr>
<tr>
<td>L1-L2</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>L3</td>
<td>0.35 YE</td>
<td>6817</td>
<td>LED Backlight Dimming Control (UK3)</td>
</tr>
<tr>
<td>L4</td>
<td>0.35 YE</td>
<td>6817</td>
<td>LED Backlight Dimming Control</td>
</tr>
<tr>
<td>L5</td>
<td>0.5 TN/BK</td>
<td>2500</td>
<td>High Speed GMLAN Serial Data Bus+</td>
</tr>
<tr>
<td></td>
<td>0.5 TN/BK</td>
<td>2500</td>
<td>High Speed GMLAN Serial Data Bus+</td>
</tr>
<tr>
<td>M1-M2</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>M3</td>
<td>0.35 YE</td>
<td>6817</td>
<td>LED Backlight Dimming Control</td>
</tr>
<tr>
<td></td>
<td>0.35 YE</td>
<td>6817</td>
<td>LED Backlight Dimming Control (C67/C42)</td>
</tr>
<tr>
<td>M4</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>M5</td>
<td>0.5 TN</td>
<td>2501</td>
<td>High Speed GMLAN Serial Data Bus-</td>
</tr>
<tr>
<td></td>
<td>0.5 TN</td>
<td>2501</td>
<td>High Speed GMLAN Serial Data Bus-</td>
</tr>
<tr>
<td>N1</td>
<td>0.35 D-BU</td>
<td>2307</td>
<td>Passenger Air Bag On Indicator Control</td>
</tr>
<tr>
<td>N2</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>N3</td>
<td>0.35 YE</td>
<td>6817</td>
<td>LED Backlight Dimming Control (JL1)</td>
</tr>
<tr>
<td></td>
<td>0.35 YE</td>
<td>6817</td>
<td>LED Backlight Dimming Control (PTO)</td>
</tr>
<tr>
<td>N4</td>
<td>0.35 YE</td>
<td>6817</td>
<td>LED Backlight Dimming Control</td>
</tr>
<tr>
<td></td>
<td>0.35 YE</td>
<td>6817</td>
<td>LED Backlight Dimming Control (K34/KA9/UK3)</td>
</tr>
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</table>

#### Junction Block - Left I/P, X2

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>N5</td>
<td>0.35 TN</td>
<td>2501</td>
<td>High Speed GMLAN Serial Data Bus-</td>
</tr>
<tr>
<td>N5</td>
<td>0.35 TN</td>
<td>2501</td>
<td>High Speed GMLAN Serial Data Bus-</td>
</tr>
<tr>
<td>P1</td>
<td>0.35 PU</td>
<td>5234</td>
<td>Passenger Seat Belt Indicator</td>
</tr>
<tr>
<td>P2</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>P3</td>
<td>0.35 D-GN</td>
<td>2308</td>
<td>Passenger Air Bag Off Indicator Control</td>
</tr>
<tr>
<td>P4</td>
<td>3 RD/WH</td>
<td>3740</td>
<td>Battery Positive Voltage (UQA-Y91)</td>
</tr>
<tr>
<td>P5</td>
<td>0.5 TN/BK</td>
<td>2500</td>
<td>High Speed GMLAN Serial Data Bus+</td>
</tr>
</tbody>
</table>

#### Junction Block - Left I/P - X3

**Connector Part Information**

- **OEM:** 13516840
- **Service:** 19149295
- **Description:** 8-way F GT 280 Series (GN)

**Terminal Part Information**

- **Terminal/Tray:** 13525970/4
- **Core/Insulation Crimp:** E/A
- **Release Tool/Test Probe:** 15315247/J-35616-4A (PU)

#### Junction Block - Left I/P, X3

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.5 TN/BK</td>
<td>2500</td>
<td>High Speed GMLAN Serial Data Bus+</td>
</tr>
<tr>
<td>2</td>
<td>0.8 BK</td>
<td>1050</td>
<td>Ground (D07 +YE9 +AN3)</td>
</tr>
<tr>
<td>3</td>
<td>0.5 TN</td>
<td>2501</td>
<td>High Speed GMLAN Serial Data Bus-</td>
</tr>
<tr>
<td>4</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>5</td>
<td>0.5 TN</td>
<td>2501</td>
<td>High Speed GMLAN Serial Data Bus-</td>
</tr>
<tr>
<td>6</td>
<td>3 RD/WH</td>
<td>3740</td>
<td>Battery Positive Voltage (UQA -Y91)</td>
</tr>
<tr>
<td>7</td>
<td>0.5 TN/BK</td>
<td>2500</td>
<td>High Speed GMLAN Serial Data Bus+</td>
</tr>
<tr>
<td>8</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
</tbody>
</table>
### Junction Block - Left I/P - X4

**Connector Part Information**
- **OEM:** 13516829
- **Service:** 19115667
- **Description:** 8-way F GT 280 Series (OG)

**Terminal Part Information**
- Pins: 1, 2, 5, 6, 7
- Terminal/Tray: 13525970/4
- Core/Insulation Crimp: E/A
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

**Pin | Wire Color | Circuit No. | Function**
--- | --- | --- | ---
1 | 0.35 D-GN | 5600 | Low Speed GMLAN Serial Data (-Y91) |
2 | 0.5 RD/WH | 340 | Battery Positive Voltage (-Y91) |
2 | 0.5 RD/WH | 340 | Battery Positive Voltage (UK6) |
3 | 0.8 D-GN/WH | 817 | Vehicle Speed Signal |
4 | 3 BK | 2550 | Ground (-Y91) |
5 | 0.5 BK | 2550 | Ground (UE1-Y91) |
5 | 0.5 BK | 2550 | Ground (U2K-Y91) |
6 | 0.5 RD/WH | 3240 | Battery Positive Voltage (UE1) |
6 | 0.5 RD/WH | 3240 | Battery Positive Voltage (U42) |
7 | 0.5 BK | 2550 | Ground (U42/Y91) |
7 | 0.5 BK | 2550 | Ground (U42/U2K-Y91) |
8 | 0.8 RD/WH | 1040 | Battery Positive Voltage (D07-Y91) |

### Junction Block - Left I/P - X5 SPO Alarm

**Connector Part Information**
- **OEM:** 12194033
- **Service:** See Catalog
- **Description:** 4-way F Metri-Pack 280 Series (CM)

**Terminal Part Information**
- Terminal/Tray: See Terminal Repair Kit
- Core/Insulation Crimp: See Terminal Repair Kit
- Release Tool/Test Probe: See Terminal Repair Kit

**Pin | Wire Color | Circuit No. | Function**
--- | --- | --- | ---
A-C | -- | -- | Not Used |
D | 0.5 RD/WH | 4540 | Battery Positive Voltage |
### Power Distribution: Pickup – Junction Block-Left I/P-Connector X7 (JF4) & X8

#### Junction Block - Left I/P - X7 (JF4)

**Connector Part Information**
- OEM: 13516836
- Service: 19149294
- Description: 8-way F GT 280 Series (OG)

**Terminal Part Information**
- Pins: 1, 3, 5
- Terminal/Tray: 13525970/4
- Core/Insulation Crimp: E/A
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.5 GY</td>
<td>6206</td>
<td>Low Reference (JF4 +AN3)</td>
</tr>
<tr>
<td>2</td>
<td>1 YE</td>
<td>5129</td>
<td>Adjustable Pedals Relay Rearward Control (JF4)</td>
</tr>
<tr>
<td>3</td>
<td>0.5 TN</td>
<td>6207</td>
<td>5-Volt Reference (JF4 +AN3)</td>
</tr>
<tr>
<td>4</td>
<td>1 PU</td>
<td>5130</td>
<td>Adjustable Pedals Actuator Forward Control (JF4)</td>
</tr>
<tr>
<td>5</td>
<td>0.5 PK</td>
<td>5289</td>
<td>Adjustable Pedal Sensor Signal (JF4 +AN3)</td>
</tr>
<tr>
<td>6-8</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
</tbody>
</table>

#### Junction Block - Left I/P - X8

**Connector Part Information**
- OEM: 13516835
- Service: 19149293
- Description: 8-way F GT 280 Series (GN)

**Terminal Part Information**
- Pins: 3
- Terminal/Tray: 13525970/4
- Core/Insulation Crimp: 2/A
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>3</td>
<td>1 BK</td>
<td>1050</td>
<td>Ground</td>
</tr>
<tr>
<td>4</td>
<td>0.35 YE</td>
<td>43</td>
<td>Accessory Voltage (A48)</td>
</tr>
<tr>
<td>5</td>
<td>0.35 PU</td>
<td>5234</td>
<td>Passenger Seat Belt Indicator (AL0)</td>
</tr>
<tr>
<td>6</td>
<td>0.35 D-BU</td>
<td>2307</td>
<td>Passenger Air Bag On Indicator Control</td>
</tr>
<tr>
<td>7</td>
<td>0.35 D-GN/BK</td>
<td>2308</td>
<td>Passenger Air Bag Off Indicator Control</td>
</tr>
<tr>
<td>8</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
</tbody>
</table>
### Junction Block - Left I/P - X9 Connector Part Information

- **OEM:** 13516831
- **Service:** 19149289
- **Description:** 8-way F GT 280 Series (BK)

#### Terminal Part Information

- **Terminal/Tray:** 13525970/4
- **Core/Insulation Crimp:** E/A
- **Release Tool/Test Probe:** 15315247/J-35616-4A (PU)

### Pin | Wire Color | Circuit No. | Function |
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.35 PK</td>
<td>1639</td>
<td>Ignition 1 Voltage (DF5)</td>
</tr>
<tr>
<td>2</td>
<td>0.35</td>
<td>5515</td>
<td>Inside Air Temperature Sensor Assembly</td>
</tr>
<tr>
<td>3</td>
<td>0.5 OG</td>
<td>1054</td>
<td>Stop Lamp Supply Voltage Signal</td>
</tr>
<tr>
<td>4</td>
<td>0.35 D-GN</td>
<td>734</td>
<td>Inside Air Temperature Sensor Signal (CJ2)</td>
</tr>
<tr>
<td>5</td>
<td>0.35 PK</td>
<td>1139</td>
<td>Ignition 1 Voltage (AL0/C99)</td>
</tr>
<tr>
<td>6</td>
<td>0.5 WH/BK</td>
<td>158</td>
<td>Courtesy Lamp Supply Voltage</td>
</tr>
<tr>
<td>7</td>
<td>0.35 D-GN</td>
<td>6101</td>
<td>Low Reference</td>
</tr>
<tr>
<td>8</td>
<td>0.5 GY</td>
<td>157</td>
<td>Courtesy Lamp Control</td>
</tr>
<tr>
<td></td>
<td>0.5 GY</td>
<td>157</td>
<td>Courtesy Lamp Control (Extended Cab/Crew Cab)</td>
</tr>
</tbody>
</table>

### Junction Block - Left I/P - X10 Connector Part Information

- **OEM:** 13516830
- **Service:** 19149291
- **Description:** 8-way F GT 280 Series (GY)

#### Terminal Part Information

- **Terminal/Tray:** 13525970/4
- **Core/Insulation Crimp:** E/A
- **Release Tool/Test Probe:** 15315247/J-35616-4A (PU)

### Pin | Wire Color | Circuit No. | Function |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.5 RD/WH</td>
<td>240</td>
<td>Battery Positive Voltage (TRW/5Y0/5X7/UG1)</td>
</tr>
<tr>
<td>2</td>
<td>0.35 OG</td>
<td>6815</td>
<td>Inadvertent Power Control</td>
</tr>
<tr>
<td></td>
<td>0.35 OG</td>
<td>6815</td>
<td>Inadvertent Power Control (Extended Cab/Crew Cab - YE9)</td>
</tr>
<tr>
<td>3</td>
<td>0.35 PK</td>
<td>1691</td>
<td>Low Reference (DF5 +DL3/DR4)</td>
</tr>
<tr>
<td>4</td>
<td>0.35 BN/WH</td>
<td>230</td>
<td>Instrument Panel Lamps Dimming Control (TRW/UG1/A48)</td>
</tr>
<tr>
<td>5</td>
<td>0.35 YE</td>
<td>61</td>
<td>Low Reference (DF5)</td>
</tr>
<tr>
<td>6</td>
<td>0.35 D-GN/WH</td>
<td>636</td>
<td>Ambient Air Temperature Sensor Signal (DF5)</td>
</tr>
<tr>
<td>7</td>
<td>0.35 GY</td>
<td>1690</td>
<td>Automatic Day/Night Mirror Signal (DF5 +DI3/DR4)</td>
</tr>
<tr>
<td>8</td>
<td>0.35 D-BU</td>
<td>38</td>
<td>Backup Lamp Relay Control (DF5)</td>
</tr>
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</table>
## Junction Block - Left I/P - X11

### Connector Part Information

- **OEM:** 13516833
- **Service:** 19115668

### Terminal Part Information

- **Pins:** 1
- **Terminal/Tray:** 13525969/4
- **Core/Insulation Crimp:** 4/4
- **Release Tool/Test Probe:** 15315247/J-35616-4A (PU)

### Pin Information

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2 RD/WH</td>
<td>1340</td>
<td>Battery Positive Voltage (Crew Cab +A31/Extended Cab +ABV)</td>
</tr>
<tr>
<td>2</td>
<td>3 RD/WH</td>
<td>1440</td>
<td>Battery Positive Voltage</td>
</tr>
<tr>
<td>3</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>4</td>
<td>0.5 BN/WH</td>
<td>230</td>
<td>Instrument Panel Lamps Dimming Control (Crew Cab +31/Extended Cab +ABV)</td>
</tr>
<tr>
<td></td>
<td>0.5 BN/WH</td>
<td>230</td>
<td>Instrument Panel Lamps Dimming Control (Crew Cab +31/Extended Cab +ABV)</td>
</tr>
<tr>
<td>5</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>6</td>
<td>0.35 PK</td>
<td>1139</td>
<td>Ignition 1 Voltage</td>
</tr>
<tr>
<td>7</td>
<td>0.8 RD/WH</td>
<td>4440</td>
<td>Battery Positive Voltage (-AL0)</td>
</tr>
<tr>
<td></td>
<td>0.5 RD/WH</td>
<td>4440</td>
<td>Battery Positive Voltage (AL0)</td>
</tr>
<tr>
<td></td>
<td>0.35 RD/WH</td>
<td>4440</td>
<td>Battery Positive Voltage (AL0)</td>
</tr>
<tr>
<td>8</td>
<td>0.5 RD/WH</td>
<td>4440</td>
<td>Battery Positive Voltage (ASF)</td>
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</table>

## Junction Block - Left I/P - X12

### Connector Part Information

- **OEM:** 13516834
- **Service:** 19149292

### Terminal Part Information

- **Pins:** 6
- **Terminal/Tray:** 13525970/4
- **Core/Insulation Crimp:** 2/A
- **Release Tool/Test Probe:** 15315247/J-35616-4A (PU)

### Pin Information

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3 RD/WH</td>
<td>5040</td>
<td>Battery Positive Voltage (AN3)</td>
</tr>
<tr>
<td>2</td>
<td>3 RD/WH</td>
<td>3440</td>
<td>Battery Positive Voltage (A48)</td>
</tr>
<tr>
<td>3-5</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>6</td>
<td>1 WH/BK</td>
<td>158</td>
<td>Courtesy Lamp Supply Voltage</td>
</tr>
<tr>
<td>7</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>8</td>
<td>3 BK</td>
<td>2550</td>
<td>Ground</td>
</tr>
</tbody>
</table>
### Junction Block - Left I/P - X13

**Connector Part Information**
- OEM: 13516832
- Service: 19149290
- Description: 8-way F GT 280 Series (D-BU)

**Terminal Part Information**
- Pins: 1, 2
- Terminal/Tray: 13525970/4
- Core/Insulation Crimp: 2/A
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 PU</td>
<td>5130</td>
<td>Adjustable Pedals Relay Forward Control (JF4 +AN3)</td>
</tr>
<tr>
<td>2</td>
<td>1 YE</td>
<td>5129</td>
<td>Adjustable Pedals Relay Rearward Control (JF4 +AN3)</td>
</tr>
<tr>
<td>3</td>
<td>0.35 PU</td>
<td>5286</td>
<td>Adjustable Pedals Relay Forward Control (JF4 +AN3)</td>
</tr>
<tr>
<td>4</td>
<td>0.35 OG/BK</td>
<td>5825</td>
<td>Adjustable Pedals Relay Rearward Control (JF4 +AN3)</td>
</tr>
<tr>
<td>5</td>
<td>0.5 TN</td>
<td>6207</td>
<td>Memory Sensor High Reference (JF4 +AN3)</td>
</tr>
<tr>
<td>6</td>
<td>0.5 PK</td>
<td>5289</td>
<td>Adjustable Pedal Sensor Signal (JF4 +AN3)</td>
</tr>
<tr>
<td>7</td>
<td>0.5 GY</td>
<td>6206</td>
<td>Low Reference (JF4 +AN3)</td>
</tr>
<tr>
<td>8</td>
<td>0.35 YE</td>
<td>43</td>
<td>Accessory Voltage (A31 -AN3/DL3)</td>
</tr>
<tr>
<td></td>
<td>0.35 YE</td>
<td>43</td>
<td>Accessory Voltage (A31 -AN3/DL3)</td>
</tr>
<tr>
<td></td>
<td>0.35 PU/WH</td>
<td>6205</td>
<td>12-Volt Reference (JF4 +AN3)</td>
</tr>
</tbody>
</table>

### Junction Block - Left I/P - X14

**Connector Part Information**
- OEM: 13516837
- Service: See Catalog
- Description: 8-way F GT 280 Series (BK)

**Terminal Part Information**
- Terminal/Tray: See Terminal Repair Kit
- Core/Insulation Crimp: See Terminal Repair Kit
- Core/Insulation Crimp: See Terminal Repair Kit

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.5 BK</td>
<td>1050</td>
<td>Ground (5Y0/5X7)</td>
</tr>
<tr>
<td>2-4</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>5</td>
<td>3 RD/WH</td>
<td>2340</td>
<td>Battery Positive Voltage (5Y0)</td>
</tr>
<tr>
<td>6-7</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>8</td>
<td>0.5 YE</td>
<td>43</td>
<td>Accessory Voltage (9L4)</td>
</tr>
</tbody>
</table>
Power Distribution: Pickup – Junction Block-Right I/P-Connector X1

Junction Block - Right I/P - X1
Connector Part Information

- OEM: 15489487
- Service: See Catalog
- Description: 40-way F (BK)

Terminal Part Information

- Pins: 2A4, 2B4, 3B1, 5A, 5C, 5D, 5E, 5F
- Terminal/Tray: 15304722/8
- Core/Insulation Crimp: E/C
- Release Tool/Test Probe: 15315247/J-35616-5 (PU)
- Pins: 3A1, 3A4
- Terminal/Tray: 15304724/8
- Core/Insulation Crimp: 2/A
- Release Tool/Test Probe: See Terminal Repair Kit
- Pins: 2A2, 2A3, 2B3, 2B6, 2B7, 3A7, 4A1, 4A2, 4A3, 4A4, 4A5, 4A6, 4A7, 4B2, 4B3, 4B5, 4B6, 5B
- Terminal/Tray: 15304724/8
- Core/Insulation Crimp: See Terminal Repair Kit
- Release Tool/Test Probe: See Terminal Repair Kit

(continued on Pg. B-28)
### Junction Block - Right I/P - X1

**Connector Part Information (continued from Pg. B-27)**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>2A1</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>2A2</td>
<td>0.35 TN</td>
<td>481</td>
<td>Outside Moisture Signal 1 (CE1)</td>
</tr>
<tr>
<td>2A3</td>
<td>0.35 L-GN</td>
<td>482</td>
<td>Outside Moisture Signal 2 (CE1)</td>
</tr>
<tr>
<td>2A4</td>
<td>0.35 WH</td>
<td>2283</td>
<td>Ignition Voltage (CE1)</td>
</tr>
<tr>
<td></td>
<td>0.35 WH</td>
<td>2283</td>
<td>Ignition Voltage (NOH/NOF +CE1)</td>
</tr>
<tr>
<td>2A5-2A6</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>2A7</td>
<td>--</td>
<td>--</td>
<td>Ground Bus</td>
</tr>
<tr>
<td>2B1</td>
<td>0.35 RD/WH</td>
<td>3140</td>
<td>Battery Positive Voltage (CF5/TRW)</td>
</tr>
<tr>
<td>2B2</td>
<td>0.5 BN</td>
<td>2509</td>
<td>Left Front Park Lamps Supply Voltage (U01)</td>
</tr>
<tr>
<td>2B3</td>
<td>0.35 YE</td>
<td>43</td>
<td>Accessory Voltage (CF5)</td>
</tr>
<tr>
<td>2B4</td>
<td>0.5 BN/WH</td>
<td>230</td>
<td>Instrument Panel lamp Dimming Control (CF5)</td>
</tr>
<tr>
<td>2B5</td>
<td>0.5 WH</td>
<td>5990</td>
<td>Emergency Lamp Switch Signal (5Y0/5X7)</td>
</tr>
<tr>
<td>2B6</td>
<td>0.5 BK</td>
<td>1050</td>
<td>Ground</td>
</tr>
<tr>
<td>2B7</td>
<td>0.35 OG</td>
<td>300</td>
<td>Ignition 3 Voltage (Export w/CF5)</td>
</tr>
<tr>
<td>3A1</td>
<td>0.5 D-GN</td>
<td>117</td>
<td>Right Front Speaker Output (-)</td>
</tr>
<tr>
<td>3A2</td>
<td>0.5 L-GN</td>
<td>200</td>
<td>Right Front Speaker Output (+)</td>
</tr>
<tr>
<td>3A3</td>
<td>0.35 BK</td>
<td>1850</td>
<td>Ground</td>
</tr>
</tbody>
</table>

### Junction Block - Right I/P, X1 (cont'd)

(continued from column at left)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>3A4</td>
<td>0.8 D-BU/WH</td>
<td>1315</td>
<td>Right Front Turn Signal Lamp Supply Voltage (DL3/DPN)</td>
</tr>
<tr>
<td></td>
<td>0.8 D-BU/WH</td>
<td>1315</td>
<td>Right Front Turn Signal Lamp Supply Voltage (DL3/DPN)</td>
</tr>
<tr>
<td></td>
<td>0.35 L-BU</td>
<td>224</td>
<td>Passenger Door Lock Switch Lock Signal (AU3-YE9)</td>
</tr>
<tr>
<td>3A5</td>
<td>0.35 TN/WH</td>
<td>746</td>
<td>Right Front Door Ajar Switch Signal (-AN3/DL3)</td>
</tr>
<tr>
<td>3A6</td>
<td>0.8 GY</td>
<td>295</td>
<td>Door Lock Actuator Lock Control (AU3 -AN3/DL3)</td>
</tr>
<tr>
<td>3A7</td>
<td>3 BK</td>
<td>1050</td>
<td>Ground</td>
</tr>
<tr>
<td>3B1</td>
<td>0.35 D-GN</td>
<td>5060</td>
<td>Low Speed GMLAN Serial Data (YE9 +AN3/DL3)</td>
</tr>
<tr>
<td>3B2</td>
<td>0.8 RD/WH</td>
<td>240</td>
<td>Battery Positive Voltage</td>
</tr>
<tr>
<td>3B3</td>
<td>0.8 TN</td>
<td>294</td>
<td>Door Lock Actuator Unlock Control (AU3 -AN3/DL3)</td>
</tr>
<tr>
<td>3B4</td>
<td>2 RD/WH</td>
<td>1340</td>
<td>Battery Positive Voltage (A31)</td>
</tr>
<tr>
<td></td>
<td>0.35 D-BU</td>
<td>245</td>
<td>Passenger Door Lock Switch Unlock Signal (AU3 -YE9)</td>
</tr>
<tr>
<td>3B5</td>
<td>0.35 BN/WH</td>
<td>230</td>
<td>Instrument Panel Lamp Dimming Control (AU3)</td>
</tr>
<tr>
<td>3B6</td>
<td>0.35 OG</td>
<td>5922</td>
<td>Passenger Door Open Signal (-AN3/DL3)</td>
</tr>
<tr>
<td>3B7</td>
<td>--</td>
<td>--</td>
<td>Ground Bus</td>
</tr>
<tr>
<td>4A1</td>
<td>0.35 GY</td>
<td>598</td>
<td>5-Volt Reference</td>
</tr>
<tr>
<td>4A2</td>
<td>0.35 TN</td>
<td>520</td>
<td>Lower Right Air Temperature Sensor Signal (CJ2)</td>
</tr>
</tbody>
</table>

(continued on Pg. B-29)
### Junction Block - Right I/P, X1 (cont'd)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
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<tbody>
<tr>
<td>4A3</td>
<td>0.35 TN</td>
<td>518</td>
<td>Lower Left Air Temperature Sensor Signal (CJ2)</td>
</tr>
<tr>
<td>4A4</td>
<td>0.35 YE</td>
<td>1791</td>
<td>Low Reference</td>
</tr>
<tr>
<td>4A5</td>
<td>0.35 PU</td>
<td>1838</td>
<td>Recirculation Door Position Signal (CJ2)</td>
</tr>
<tr>
<td>4A6</td>
<td>0.35 GY/BK</td>
<td>754</td>
<td>Blower Motor Speed Control</td>
</tr>
<tr>
<td>4A7</td>
<td>3BK</td>
<td>1050</td>
<td>Ground</td>
</tr>
<tr>
<td>4B1</td>
<td>--</td>
<td>--</td>
<td>5-Volt Reference Bus</td>
</tr>
<tr>
<td>4B2</td>
<td>0.35 D-BU</td>
<td>1199</td>
<td>Air Temperature Door Control</td>
</tr>
<tr>
<td>4B3</td>
<td>0.35 TN</td>
<td>2273</td>
<td>Mode Door Control</td>
</tr>
<tr>
<td>4B4</td>
<td>--</td>
<td>--</td>
<td>Low Reference Bus</td>
</tr>
<tr>
<td>4B5</td>
<td>0.35 YE/BK</td>
<td>713</td>
<td>Defrost/Heater Mode Valve Position Sensor Signal</td>
</tr>
</tbody>
</table>

### Junction Block - Right I/P, X1 (cont'd from column at left)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>4B6</td>
<td>0.35 L-BU</td>
<td>733</td>
<td>Air Temperature Door Position Signal</td>
</tr>
<tr>
<td>4B7</td>
<td>--</td>
<td>--</td>
<td>Ground Bus</td>
</tr>
<tr>
<td>5A</td>
<td>0.35 D-GN</td>
<td>6101</td>
<td>Low Reference</td>
</tr>
<tr>
<td>5B</td>
<td>0.35 PK</td>
<td>839</td>
<td>Ignition 1 Voltage</td>
</tr>
<tr>
<td>5C</td>
<td>0.35 PK</td>
<td>839</td>
<td>Ignition 1 Voltage</td>
</tr>
<tr>
<td>5D</td>
<td>0.35 D-BU</td>
<td>1646</td>
<td>Auxiliary Air Temperature Door Position Signal</td>
</tr>
<tr>
<td>5E</td>
<td>0.35 WH/BK</td>
<td>1236</td>
<td>Auxiliary Air Temperature Door Control</td>
</tr>
<tr>
<td>5F</td>
<td>0.35 D-GN</td>
<td>1614</td>
<td>Recirculation Door Control</td>
</tr>
<tr>
<td>6A</td>
<td>5 RD/BK</td>
<td>542</td>
<td>Battery Positive Voltage</td>
</tr>
<tr>
<td>6B</td>
<td>3 BK</td>
<td>1050</td>
<td>Ground</td>
</tr>
<tr>
<td></td>
<td>3 BK</td>
<td>1050</td>
<td>Ground</td>
</tr>
</tbody>
</table>
### Junction Block - Right I/P - X2

#### Connector Part Information
- **OEM:** 15467621
- **Service:** 19115663
- **Description:** 14-way F GT 150/280 Series (GY)

#### Terminal Part Information
- **Pins:** B2, B3
  - Terminal/Tray: 12191812/19
  - Core/Insulation Crimp: E/C
  - Release Tool/Test Probe: 15315247/J-35616-2A (GY)
- **Pins:** A7, B1
  - Terminal/Tray: 15304713/19
  - Core/Insulation Crimp: F/D
  - Release Tool/Test Probe: 15315247/J-35616-4A (PU)

(continued from column at left)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>A2</td>
<td>0.35 TN</td>
<td>481</td>
<td>Outside Moisture Signal 1 (CE1)</td>
</tr>
<tr>
<td>A3</td>
<td>0.35 L-GN</td>
<td>482</td>
<td>Outside Moisture Signal 2 (CE1)</td>
</tr>
<tr>
<td>A4</td>
<td>0.35 WH</td>
<td>2283</td>
<td>Ignition Voltage (CE1)</td>
</tr>
</tbody>
</table>

### Junction Block - Right I/P, X2

#### Pin | Wire Color | Circuit No. | Function
---|------------|-------------|---------------------------------|
A5-A6 | --         | --          | Not Used                        |
A7    | 3 BK       | 1050        | Ground (CF5/TRW)                |
|      | 0.5 BK     | 1050        | Ground (U01)                    |
B1    | 3 RD/WH    | 3140        | Battery Positive Voltage (CF5/TRW) |
B2    | 0.5 BN     | 2509        | Left Front Park Lamps Supply Voltage (U01) |
B3    | 0.35 YE    | 43          | Accessory Voltage (CF5)         |
B4    | 0.5 BN/WH  | 230         | Instrument Panel Lamps Dimming Control (CF5) |
B5    | 0.5 WH     | 5990        | Emergency Lamp Switch Signal (5Y0/5X7) |
B6    | 0.35 BK    | 1050        | Ground (CE1)                    |
B7    | --         | --          | Not Used                        |

(continued from column at left)
### Junction Block - Right I/P - X3

#### Connector Part Information
- **OEM:** 15467622
- **Service:** 19115664
- **Description:** 14-way F GT 150/280 Series (L-GY)

#### Terminal Part Information
- **Pins:** A1
  - Terminal/Tray: 15304711/8
  - Core/Insulation Crimp: 2/A
  - Release Tool/Test Probe: 15315247/J-35616-4A (PU)

- **Pins:** A2, A6, B2, B3
  - Terminal/Tray: 12191812/19
  - Core/Insulation Crimp: C/A
  - Release Tool/Test Probe: 15315247/J-35616-2A (GY)

- **Pins:** A4, B1, B4
  - Terminal/Tray: 15304711/8
  - Core/Insulation Crimp: E/A
  - Release Tool/Test Probe: 15315247/J-35616-4A (PU)

- **Pins:** A7
  - Terminal/Tray: 15304713/19
  - Core/Insulation Crimp: F/D
  - Release Tool/Test Probe: 15315247/J-35616-4A (PU)

- **Pins:** B4
  - Terminal/Tray: 15304713/19
  - Core/Insulation Crimp: 4/4
  - Release Tool/Test Probe: 15315247/J-35616-4A (PU)

#### Junction Block - Right I/P, X3

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>0.8 D-GN</td>
<td>117</td>
<td>Right Front Speaker Output (-)</td>
</tr>
<tr>
<td>A2</td>
<td>0.8 L-GN</td>
<td>200</td>
<td>Right Front Speaker Output (+)</td>
</tr>
<tr>
<td>A3</td>
<td>0.35 BK</td>
<td>1850</td>
<td>Ground (-AN3/DL3)</td>
</tr>
<tr>
<td>A4</td>
<td>0.5 D-BU/WH</td>
<td>1315</td>
<td>Right Front Turn Signal Lamp Supply Voltage (DL3/DPN)</td>
</tr>
<tr>
<td></td>
<td>0.35 L-BU</td>
<td>244</td>
<td>Passenger Door Lock Switch Lock Signal (AU3 -YE9)</td>
</tr>
<tr>
<td>A5</td>
<td>0.35 TN/WH</td>
<td>746</td>
<td>Right Front Door Ajar Switch Signal (-AN3/DL3)</td>
</tr>
<tr>
<td>A6</td>
<td>1 GY</td>
<td>295</td>
<td>Door Lock Actuator Lock Control (AU3 -AN3/DL3)</td>
</tr>
<tr>
<td>A7</td>
<td>3 BK</td>
<td>1050</td>
<td>Ground (A31/AN3/DL3/DL8/DPN)</td>
</tr>
<tr>
<td>B1</td>
<td>0.35 D-GN</td>
<td>5060</td>
<td>Low Speed GMLAN Serial Data (AN3/DL3)</td>
</tr>
<tr>
<td>B2</td>
<td>0.8 RD/WH</td>
<td>240</td>
<td>Battery Positive Voltage</td>
</tr>
<tr>
<td>B3</td>
<td>1 TN</td>
<td>294</td>
<td>Door Lock Actuator Unlock Control (AU3 -AN3/DL3)</td>
</tr>
<tr>
<td>B4</td>
<td>2 RD/WH</td>
<td>1340</td>
<td>Battery Positive Voltage (A31)</td>
</tr>
<tr>
<td>B5</td>
<td>0.35 BN/WH</td>
<td>230</td>
<td>Instrument Panel Lamps Dimming Control (AU3 -AN3/DL3)</td>
</tr>
<tr>
<td>B6</td>
<td>0.35 OG</td>
<td>5922</td>
<td>Non-Driver Door Open Switch Signal (-AN3/DL3)</td>
</tr>
<tr>
<td>B7</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
</tbody>
</table>

(continued from column at left)
## Junction Block - Right I/P - X4

### Connector Part Information
- **OEM:** 15467620
- **Service:** 19115662
- **Description:** 14-way F GT 150/280 Series (BK)

### Terminal Part Information
- **Pins:** A1, A4, B1, B4
- **Terminal/Tray:** 15304711/8
- **Core/Insulation Crimp:** 2/A
- **Release Tool/Test Probe:** 15315247/J-35616-4A (PU)
- **Pins:** A2, A3, A5, A6, B2, B3, B5, B6
- **Terminal/Tray:** 12191812/19
- **Core/Insulation Crimp:** E/C
- **Release Tool/Test Probe:** 15315247/J-35616-2A (GY)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>0.35 L-BU/BK</td>
<td>598</td>
<td>5-Volt Reference</td>
</tr>
<tr>
<td>A2</td>
<td>0.35 TN</td>
<td>520</td>
<td>Lower Right Air Temperature Sensor Signal (CJ2)</td>
</tr>
<tr>
<td>A3</td>
<td>0.35 TN</td>
<td>518</td>
<td>Lower Left Air Temperature Sensor Signal (CJ2)</td>
</tr>
<tr>
<td>A4</td>
<td>0.35 YE</td>
<td>1791</td>
<td>Low Reference</td>
</tr>
<tr>
<td>A5</td>
<td>0.35 YE</td>
<td>1791</td>
<td>Low Reference (C67/CJ2)</td>
</tr>
<tr>
<td>A6</td>
<td>0.35 PU/WH</td>
<td>754</td>
<td>Blower Motor Speed Control</td>
</tr>
<tr>
<td>A7</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>B1</td>
<td>0.35L-BU/WH</td>
<td>598</td>
<td>5-Volt Reference</td>
</tr>
<tr>
<td>B2</td>
<td>0.35 D-BU</td>
<td>1199</td>
<td>Left Air Temperature Door Control (CJ2)</td>
</tr>
<tr>
<td>B3</td>
<td>0.35 TN</td>
<td>2273</td>
<td>Mode Door Control</td>
</tr>
<tr>
<td>B4</td>
<td>0.35 YE</td>
<td>1791</td>
<td>Low Reference</td>
</tr>
<tr>
<td>B5</td>
<td>0.35 L-GN</td>
<td>713</td>
<td>Mode Door Position Signal</td>
</tr>
<tr>
<td>B6</td>
<td>0.35 L-BU</td>
<td>733</td>
<td>Left Air Temperature Door Position Signal (CJ2)</td>
</tr>
<tr>
<td>B7</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
</tbody>
</table>
Power Distribution: Pickup – Junction Block-Right I/P-Connector X5 & X6

**Junction Block - Right I/P - X5**

Connector Part Information

- OEM: 15326900
- Service: 15606380
- Description: 6-way F GT 280 Series (BK)

Terminal Part Information

- Pins: A-C
- Terminal/Tray: 15304711/8
- Core/Insulation Crimp: 2/A
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.35 D-GN</td>
<td>6101</td>
<td>Low Reference (CJ2)</td>
</tr>
<tr>
<td>A</td>
<td>0.35 D-GN</td>
<td>6101</td>
<td>Low Reference (CJ2)</td>
</tr>
<tr>
<td>B</td>
<td>0.35 BN</td>
<td>839</td>
<td>Ignition 1 Voltage</td>
</tr>
<tr>
<td>C</td>
<td>0.35 BN</td>
<td>839</td>
<td>Ignition 1 Voltage</td>
</tr>
<tr>
<td>D</td>
<td>0.35 D-BU</td>
<td>1646</td>
<td>Right Air Temperature Door Position Signal</td>
</tr>
<tr>
<td>E</td>
<td>0.35 WH/BK</td>
<td>1236</td>
<td>Right Air Temperature Door Control</td>
</tr>
<tr>
<td>F</td>
<td>0.35 D-GN</td>
<td>1614</td>
<td>Recirculation Door Control (C67/CJ2)</td>
</tr>
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</table>

**Junction Block - Right I/P - X6**

Connector Part Information

- OEM: 12129939
- Service: 15306380
- Description: 2-way F Metri-Pack Series (BK)

Terminal Part Information

- Pins: D-F
- Terminal/Tray: 15304711/8
- Core/Insulation Crimp: E/A
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3 RD</td>
<td>542</td>
<td>Battery Positive Voltage</td>
</tr>
<tr>
<td>B</td>
<td>3 BK</td>
<td>1050</td>
<td>Ground</td>
</tr>
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</table>
Power Distribution: Pickup – Junction Block-Rear Lamps – Connector X1

Junction Block - Rear Lamps - X1
Connector Part Information

- OEM: 15317304
- Service: 15306114
- Description: 8-way F GT 280 Sealed (BU)

Terminal Part Information
- Pins: A, C, D, G, H
- Terminal/Tray: 15304716/8
- Core/Insulation Crimp: 2/1
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

- Pins: B, E
- Terminal/Tray: 15304717/8
- Core/Insulation Crimp: 4/1
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.5 YE</td>
<td>18</td>
<td>Left Rear Stop/Turn Lamp Supply Voltage</td>
</tr>
<tr>
<td>B</td>
<td>2 BK</td>
<td>2150</td>
<td>Ground</td>
</tr>
<tr>
<td>C</td>
<td>0.8 L-GN</td>
<td>24</td>
<td>Backup Lamp Supply Voltage</td>
</tr>
<tr>
<td>D</td>
<td>0.5 BN</td>
<td>2609</td>
<td>Right Rear Park Lamps Supply Voltage</td>
</tr>
<tr>
<td>E</td>
<td>2 BK</td>
<td>1750</td>
<td>Ground</td>
</tr>
<tr>
<td>F</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>G</td>
<td>0.8 BN</td>
<td>2509</td>
<td>Left Rear Park Lamp Supply Voltage</td>
</tr>
<tr>
<td>H</td>
<td>0.5 D-GN</td>
<td>19</td>
<td>Right Rear Stop/Turn Lamp Supply Voltage</td>
</tr>
</tbody>
</table>
### Junction Block - Rear Lamps - X2

**Connector Part Information**

- **OEM:** 15317305
- **Service:** 15306338
- **Description:** 8-way F GT 280 Sealed (GY)

**Terminal Part Information**

- **Pins:** A, C, D, G, H
- **Terminal/Tray:** 15304716/8
- **Core/Insulation Crimp:** 2/1
- **Release Tool/Test Probe:** 15315247/J-35616-4A (PU)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-B</td>
<td>--</td>
<td>--</td>
<td>Not</td>
</tr>
<tr>
<td>C</td>
<td>0.8 BK</td>
<td>1750</td>
<td>Ground</td>
</tr>
<tr>
<td>D</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>E</td>
<td>0.8 BN</td>
<td>2509</td>
<td>Left Rear Park Lamps Supply Voltage</td>
</tr>
<tr>
<td>F</td>
<td>0.8 L-GN</td>
<td>24</td>
<td>Backup Lamp Supply Voltage</td>
</tr>
<tr>
<td>G</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>G</td>
<td>0.8 BN</td>
<td>2509</td>
<td>Left Rear Park Lamp Supply Voltage</td>
</tr>
<tr>
<td>H</td>
<td>0.8 YE</td>
<td>18</td>
<td>Left Rear Stop/ Turn Lamp Supply Voltage</td>
</tr>
</tbody>
</table>

### Junction Block - Rear Lamps - X3

**Connector Part Information**

- **OEM:** 15317308
- **Service:** 15306135
- **Description:** 8-way F GT 280 Sealed 5.2 (BN)

**Terminal Part Information**

- **Pins:** B, E
- **Terminal/Tray:** 15304717/8
- **Core/Insulation Crimp:** 4/1
- **Release Tool/Test Probe:** 15315247/J-35616-4A (PU)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.5 BN</td>
<td>2609</td>
<td>Right Rear Park Lamps Supply Voltage</td>
</tr>
<tr>
<td>B</td>
<td>0.5 BN</td>
<td>2609</td>
<td>Right Rear Park Lamps Supply Voltage (R05)</td>
</tr>
<tr>
<td>C</td>
<td>0.5 BK</td>
<td>1750</td>
<td>Ground (R05)</td>
</tr>
<tr>
<td>D</td>
<td>0.5 BK</td>
<td>1750</td>
<td>Ground (R05)</td>
</tr>
<tr>
<td>E</td>
<td>0.5 BK</td>
<td>1750</td>
<td>Ground</td>
</tr>
<tr>
<td>F</td>
<td>0.5 BN</td>
<td>2509</td>
<td>Left Rear Park Lamps Supply Voltage (R05)</td>
</tr>
<tr>
<td>G</td>
<td>0.5 BN</td>
<td>2509</td>
<td>Left Rear Park Lamps Supply Voltage</td>
</tr>
<tr>
<td>H</td>
<td>0.5 BK</td>
<td>1750</td>
<td>Ground</td>
</tr>
</tbody>
</table>
Junction Block - Rear Lamps - X4
Connector Part Information

- OEM: 15317306
- Service: 15306339
- Description: 8-way F GT 280 Sealed 5.2 (BK)

Terminal Part Information

- Terminal/Tray: 15304716/8
- Core/Insulation Crimp: E/1
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.8 BK</td>
<td>2150</td>
<td>Ground</td>
</tr>
<tr>
<td>B</td>
<td>0.8 BN</td>
<td>2609</td>
<td>Right Rear Park Lamps Supply Voltage</td>
</tr>
<tr>
<td>C-D</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>E</td>
<td>0.8 L-GN</td>
<td>24</td>
<td>Backup Lamp Supply Voltage</td>
</tr>
<tr>
<td>F</td>
<td>0.8 D-GN</td>
<td>19</td>
<td>Right Rear Stop/Turn Lamp Supply Voltage</td>
</tr>
<tr>
<td>G-H</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
</tbody>
</table>
Ground Distribution: Diesel Ground – 2007 Chevrolet Silverado - 4WD

Left Side of Engine (Diesel)

(1) Fuel Injector 2
(2) Turbocharger Vane Position Sensor
(3) Fuel Injector 4
(4) Fuel Rail Pressure Sensor
(5) Fuel Injector 6
(6) Fuel Injector 8
(7) Glow Plug 8
(8) Glow Plug 6
(9) Engine Oil Level Switch
(10) Engine Oil Pressure (EOP) Sensor
(11) Glow Plug 4
(12) G106
(13) G102
(14) Glow Plug 2
Ground Distribution: Diesel Ground – 2007 Chevrolet Silverado - 4WD

Right Side of Engine (Diesel)

(1) Fuel Injector 7
(2) Fuel Injector 5
(3) Fuel Injector 3
(4) Exhaust Gas Recirculation (EGR) Valve
(5) Fuel Injector 1
(6) Mass Air Flow (MAF)/Intake Air Temperature (IAT) Sensor
(7) Intake Air Valve
(8) Crankshaft Position (CKP) Sensor
(9) Glow Plug 1
(10) G103
(11) G105
(12) Block Heater
(13) Glow Plug 3
(14) Glow Plug 5
(15) Ware In Fuel Sensor
(16) Starter
(17) Glow Plug 7
Ground Distribution: G107, G108, F110, G111, and G104 Grounds

G107, G108, G110, G111, and G104

1. G107 (4.3L)
2. G111 (XA7)
3. G108
4. G110 (XA7)
5. Brake Booster Assembly
6. Fuse Block-Underhood
7. G104 (6A6)
Ground Distribution: G301, G302, G303, and G304 Grounds

G301, G302, G303 and G304

(1) G303
(2) G302
(3) G304
(4) G301
Ground Distribution: G305 Ground

G305

(1) Fuel Tank
(2) Frame
(3) G305
### Electrical Component Locations

#### Component Name

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2 Shift Solenoid (1-2 SS) Valve (M30/M70)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>2-3 Shift Solenoid (2-3 SS) Valve (M30/M70)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>3-2 Shift Solenoid (3-2 SS) Valve (M30/M70)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>A/C Compressor Clutch (C67/CJ2 +4.3L)</td>
<td>Mounted to the front of the A/C compressor</td>
</tr>
<tr>
<td>A/C Compressor Clutch (C67/CJ2 -4.3L)</td>
<td>Mounted to the front of the A/C compressor</td>
</tr>
<tr>
<td>A/C Low Pressure Switch (Gas +C67/CJ2)</td>
<td>Right rear of the engine compartment on the right side of the A/C accumulator</td>
</tr>
<tr>
<td>A/C Low Pressure Switch (Diesel +C67/CJ2)</td>
<td>On the top right side of the A/C line</td>
</tr>
<tr>
<td>A/C Refrigerant Pressure Sensor (C67/CJ2 -Diesel)</td>
<td>In the right front of the engine compartment on the A/C high pressure hose near the compressor</td>
</tr>
<tr>
<td>A/C Refrigerant Pressure Sensor (C67/CJ2 +Diesel)</td>
<td>In the right front of the engine compartment on the A/C high pressure hose near the compressor</td>
</tr>
<tr>
<td>A/T Shift Lock Control Solenoid</td>
<td>Under the I/P mounted to the right side of the steering column</td>
</tr>
<tr>
<td>Accelerator Pedal Position (APP) Sensor</td>
<td>On the driver floor board above the accelerator pedal</td>
</tr>
<tr>
<td>Air Temperature Actuator - Left (CJ2)</td>
<td>Bottom center of the HVAC module assembly</td>
</tr>
<tr>
<td>Air Temperature Actuator - Right (CJ2)</td>
<td>Top middle of the HVAC module assembly</td>
</tr>
<tr>
<td>Air Temperature Actuator (C67/C42)</td>
<td>Top middle of the HVAC module assembly</td>
</tr>
</tbody>
</table>

#### Component Name

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Temperature Sensor - Lower Left (CJ2)</td>
<td>Left side of the HVAC module near the mode actuator</td>
</tr>
<tr>
<td>Air Temperature Sensor - Lower Right (CJ2)</td>
<td>Lower left of the HVAC module to the left of the air temperature actuator - left</td>
</tr>
<tr>
<td>Air Temperature Sensor - Upper Left (CJ2)</td>
<td>At the top rear of the I/P below the dash trim panel to the left of the ambient light/sunload sensor</td>
</tr>
<tr>
<td>Air Temperature Sensor - Upper Right (CJ2)</td>
<td>At the top rear of the I/P below the dash trim panel to the right of the ambient light/sunload sensor</td>
</tr>
<tr>
<td>Ambient Air Temperature Sensor - HVAC (CJ2)</td>
<td>Front of the vehicle mounted to the front of the lower radiator core support, on the right</td>
</tr>
<tr>
<td>Ambient Air Temperature Sensor (DF5)</td>
<td>Attached to the left side of the radiator core support behind the grille</td>
</tr>
<tr>
<td>Ambient Light Sensor (C67/C42)</td>
<td>On the top center of the I/P mounted in the trim panel</td>
</tr>
<tr>
<td>Ambient Light/Sunload Sensor Assembly (CJ2)</td>
<td>On the top center of the I/P mounted in the trim panel</td>
</tr>
<tr>
<td>Audio Amplifier (UQA)</td>
<td>Mounted to floor under the rear of the center console</td>
</tr>
<tr>
<td>Audio/Video Adapter (U42)</td>
<td>Rear of the center console near the rear seat audio controller</td>
</tr>
<tr>
<td>Automatic Transmission (MYC/MYD)</td>
<td>Under the Vehicle, mounted to the rear of the engine</td>
</tr>
<tr>
<td>Automatic Transmission Fluid Pressure Manual Valve Position Switch (M30/M70)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>Automatic Transmission Input Shaft Speed (AT ISS) Sensor (MW7)</td>
<td>In the automatic transmission</td>
</tr>
</tbody>
</table>

(continued on Pg. B-43)
### Electrical Component Locations (cont'd)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic Transmission Shift Lever (M30/M70/MYC/MYD/MW7)</td>
<td>Right side of the steering column to the rear of the steering wheel</td>
</tr>
<tr>
<td>Automatic Transmission Turbine Speed Sensor (MW7)</td>
<td>Mounted to the top left of the Transmission</td>
</tr>
<tr>
<td>Auxiliary Battery Relay (TP2)</td>
<td>At the left side rear of the engine compartment</td>
</tr>
<tr>
<td>Auxiliary Body Control Module (XBCM) (Export)</td>
<td>In the right side of the I/P, below the defrost deflector</td>
</tr>
<tr>
<td>Auxiliary Power Outlet - Bin (D07)</td>
<td>In the rear of the center console storage bin</td>
</tr>
<tr>
<td>Auxiliary Power Outlet - Center Seat (AZ3)</td>
<td>Between the Driver and Passenger Seats</td>
</tr>
<tr>
<td>Auxiliary Power Outlet - Console (D07)</td>
<td>Rear of the center console below the rear seat audio controller</td>
</tr>
<tr>
<td>Auxiliary Power Outlet - Front 1</td>
<td>Left center of the I/P to the left of the I/P multifunction switch assembly</td>
</tr>
<tr>
<td>Auxiliary Power Outlet - Front 2</td>
<td>Right center of the I/P to the right of the I/P multifunction switch assembly</td>
</tr>
<tr>
<td>Back-up Alarm (8S3)</td>
<td>On the rear of the vehicle frame</td>
</tr>
<tr>
<td>Backup Lamp - Left Rear</td>
<td>Left rear of the vehicle</td>
</tr>
<tr>
<td>Backup Lamp - Right Rear</td>
<td>Right rear of the vehicle</td>
</tr>
<tr>
<td>Battery Current Sensor (10 Series)</td>
<td>Part of the negative battery cable assembly</td>
</tr>
<tr>
<td>Battery - Left (Diesel 6A6/TP2)</td>
<td>Left front corner of engine compartment</td>
</tr>
<tr>
<td>Battery - Right</td>
<td>Right rear of the engine compartment to the rear of the coolant reservoir</td>
</tr>
</tbody>
</table>
### Electrical Component Locations (cont'd)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clearance Lamp - Right Rear (R05)</td>
<td>Rear of the right rear wheel flare</td>
</tr>
<tr>
<td>Clearance Lamps (U01)</td>
<td>Center of the roof panel above the windshield</td>
</tr>
<tr>
<td>Cooling Fan - Left (Gas - LY6)</td>
<td>Left front of the engine compartment near the radiator</td>
</tr>
<tr>
<td>Cooling Fan - Right (Gas - LY6)</td>
<td>Right front of the engine compartment near the radiator</td>
</tr>
<tr>
<td>Courtesy/Reading Lamps - Front</td>
<td>Mounted in the overhead console</td>
</tr>
<tr>
<td>Courtesy/Reading Lamps - Rear (Extended Cab/Crew Cab)</td>
<td>In the headliner above the 2nd row seating</td>
</tr>
<tr>
<td>Crankshaft Position (CKP) Sensor (4.3L)</td>
<td>In the front lower right of the timing cover</td>
</tr>
<tr>
<td>Crankshaft Position (CKP) Sensor (Gas -4.3L)</td>
<td>On the right rear of the engine, behind the starter</td>
</tr>
<tr>
<td>Crankshaft Position (CKP) Sensor (Diesel)</td>
<td>Front of the engine to the lower left of the crank pulley</td>
</tr>
<tr>
<td>Data Link Connector (DLC)</td>
<td>Lower left side of instrument panel to the left of the steering column</td>
</tr>
<tr>
<td>Defogger Grid (C49)</td>
<td>Mounted to the rear glass</td>
</tr>
<tr>
<td>Digital Radio Receiver (U2K)</td>
<td>Right side of the I/P behind the I/P compartment</td>
</tr>
<tr>
<td>Door Latch Assembly - Driver</td>
<td>Inside the rear of the driver door below the outside door handle</td>
</tr>
<tr>
<td>Door Latch Assembly - Left Rear (Crew Cab)</td>
<td>Inside the rear of the left rear door near the outside door handle</td>
</tr>
<tr>
<td>Door Latch Assembly - Passenger</td>
<td>Inside the rear of the passenger door below the outside door handle</td>
</tr>
<tr>
<td>Door Latch Assembly - Right Rear (Crew Cab)</td>
<td>Inside the rear of the right rear door near the outside door handle</td>
</tr>
</tbody>
</table>

### (continued from column at left)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Lock Switch - Driver (AU3 -AN3/DL3)</td>
<td>Mounted to the driver door trim panel</td>
</tr>
<tr>
<td>Door Lock Switch - Passenger (AU3 -AN3/DL3)</td>
<td>Mounted to the passenger door trim panel</td>
</tr>
<tr>
<td>DPF Differential Pressure Sensor (Diesel)</td>
<td>In the middle of the frame rail cross member, above the catalytic converter</td>
</tr>
<tr>
<td>Driver Door Switch (DDS) (AN3/DL3)</td>
<td>Mounted to the driver door trim panel</td>
</tr>
<tr>
<td>Driver Information Center (DIC) Switch (UK3)</td>
<td>Center of the I/P between the instrument cluster and the air vents</td>
</tr>
<tr>
<td>Driver Shift Request Switch (MYC/MYD/MW7)</td>
<td>Part of the automatic transmission shift lever</td>
</tr>
<tr>
<td>Electronic Adjustable Pedal Assembly (DF4)</td>
<td>Mounted under the lower left side of the instrument panel</td>
</tr>
<tr>
<td>Electronic Brake Control Module (EBCM)(JL4/JF3/JF7/JH6/JH7)</td>
<td>Mounted to the left side of the frame assembly below the driver seat</td>
</tr>
<tr>
<td>Emergency Vehicle Roof Lamp Relay (5Y0)</td>
<td>Behind the overhead console</td>
</tr>
<tr>
<td>Emergency Vehicle Wiring Blunt Cuts (5Y0)</td>
<td>Behind the overhead console</td>
</tr>
<tr>
<td>Engine Control Module (ECM)</td>
<td>Left front of the engine compartment near the fan shroud</td>
</tr>
<tr>
<td>Engine Coolant Level Switch (Diesel)</td>
<td>In the right front of the engine compartment, below the surge tank</td>
</tr>
<tr>
<td>Engine Coolant Temperature (ECT) Sensor (Gas +4.3L)</td>
<td>In the left front of the cylinder head, between the #3 and #5 cylinder exhaust ports</td>
</tr>
<tr>
<td>Engine Coolant Temperature (ECT) Sensor (4.8L/5.3L/6.0L/6.2L)</td>
<td>Near the left front cylinder head, at the cylinder #1 exhaust port</td>
</tr>
</tbody>
</table>

(continued on Pg. B-45)
### Electrical Component Locations (cont'd)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Coolant Temperature (ECT) Sensor (Diesel)</td>
<td>Top front middle of the engine</td>
</tr>
<tr>
<td>Engine Oil Level Switch (4.8L/5.3L/6.0L/6.2L)</td>
<td>Mounted in the right side of the oil pan</td>
</tr>
<tr>
<td>Engine Oil Level Switch (Diesel)</td>
<td>Mounted on the left side of the oil pan</td>
</tr>
<tr>
<td>Engine Oil Pressure (EOP) Sensor (Gas)</td>
<td>Top rear of the engine to the rear of the intake manifold</td>
</tr>
<tr>
<td>Engine Oil Pressure (EOP) Sensor (Diesel)</td>
<td>On the left rear side of the engine block</td>
</tr>
<tr>
<td>Evaporative Emission (EVAP) Canister Purge Solenoid Valve (4.3L)</td>
<td>Attached to the intake manifold on the right side of the engine to the rear of the ignition coil</td>
</tr>
<tr>
<td>Evaporative Emission (EVAP) Canister Purge Solenoid Valve (4.8L/5.3L/6.0L/6.2L)</td>
<td>Top of the engine mounted to the intake manifold, on the left side of Injector #1</td>
</tr>
<tr>
<td>Evaporative Emission (EVAP) Canister Vent Solenoid Valve (Gas)</td>
<td>Lower right rear of the vehicle, on the Evaporative Emission Canister</td>
</tr>
<tr>
<td>Exhaust Gas Recirculation (EGR) Valve (Diesel)</td>
<td>Top right front of the engine</td>
</tr>
<tr>
<td>Exhaust Gas Temperature (EGT) Sensor 1 (Diesel)</td>
<td>Under the left side of the vehicle, in front of the catalytic converter</td>
</tr>
<tr>
<td>Exhaust Gas Recirculation (EGR) Temperature Sensor 1 (Diesel)</td>
<td>--</td>
</tr>
<tr>
<td>Exhaust Gas Recirculation (EGR) Temperature Sensor 2 (Diesel)</td>
<td>--</td>
</tr>
<tr>
<td>Exhaust Gas Temperature (EGT) Sensor 2 (Diesel)</td>
<td>Under the left side of the vehicle, behind the catalytic converter</td>
</tr>
<tr>
<td>Exterior Illumination Lamp - Left (DL3/DR4/DPN)</td>
<td>Under the left outside rearview mirror</td>
</tr>
<tr>
<td>Exterior Illumination Lamp - Right (DL3/DR4/DPN)</td>
<td>Under the right outside rearview mirror</td>
</tr>
<tr>
<td>Fog Lamp - Left Front (T96)</td>
<td>Lower left front of the vehicle</td>
</tr>
<tr>
<td>Fog Lamp - Right Front (T96)</td>
<td>Lower right front of the vehicle</td>
</tr>
<tr>
<td>Front Axle Actuator (NQF/NQG/NQH/NP2)</td>
<td>Mounted to the front axle assembly</td>
</tr>
<tr>
<td>Fuel Heater (Diesel)</td>
<td>Near the top of the fuel filter on the right side of the engine</td>
</tr>
<tr>
<td>Fuel Injector 1 (Diesel)</td>
<td>Near the right side engine rocker cover above cylinder #1</td>
</tr>
<tr>
<td>Fuel Injector 1 (Gas)</td>
<td>Upper left side of the engine, at cylinder #1</td>
</tr>
<tr>
<td>Fuel Injector 2 (Diesel)</td>
<td>Near the left side engine rocker cover above cylinder #2</td>
</tr>
<tr>
<td>Fuel Injector 2 (Gas)</td>
<td>Upper right side of the engine, at cylinder #2</td>
</tr>
<tr>
<td>Fuel Injector 3 (Diesel)</td>
<td>Near the right side engine rocker cover above cylinder #3</td>
</tr>
<tr>
<td>Fuel Injector 3 (Gas)</td>
<td>Upper left side of the engine, at cylinder #3</td>
</tr>
<tr>
<td>Fuel Injector 4 (Diesel)</td>
<td>Near the left side engine rocker cover above cylinder #4</td>
</tr>
<tr>
<td>Fuel Injector 4 (Gas)</td>
<td>Upper right side of the engine, at cylinder #4</td>
</tr>
<tr>
<td>Fuel Injector 5 (Diesel)</td>
<td>Near the right side engine rocker cover above cylinder #5</td>
</tr>
<tr>
<td>Fuel Injector 5 (Gas)</td>
<td>Upper left side of the engine, at cylinder #5</td>
</tr>
<tr>
<td>Fuel Injector 6 (Diesel)</td>
<td>Near the left side engine rocker cover above cylinder #6</td>
</tr>
</tbody>
</table>
### Electrical Component Locations (cont'd)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Injector 6 (Gas)</td>
<td>Upper right side of the engine, at cylinder #6</td>
</tr>
<tr>
<td>Fuel Injector 7 (Diesel)</td>
<td>Near the right side engine rocker cover above cylinder #7</td>
</tr>
<tr>
<td>Fuel Injector 7 (Gas) (4.8L/5.3L/6.0L/6.2L)</td>
<td>Upper left side of the engine, at cylinder #7</td>
</tr>
<tr>
<td>Fuel Injector 8 (Diesel)</td>
<td>Near the left side engine rocker cover above cylinder #8</td>
</tr>
<tr>
<td>Fuel Injector 8 (Gas) (4.8L/5.3L/6.0L/6.2L)</td>
<td>Upper right side of the engine, at cylinder #8</td>
</tr>
<tr>
<td>Fuel Level Sensor - Primary (Diesel)</td>
<td>Inside the primary fuel tank, under the vehicle</td>
</tr>
<tr>
<td>Fuel Level Sensor - Secondary (Diesel - NQZ)</td>
<td>Inside the primary fuel tank, under the rear of the vehicle</td>
</tr>
<tr>
<td>Fuel Line Pressure Sensor (Gas - 4.3L/LMG/LY6/LC9)</td>
<td>In front of the Electronic Brake Control Module</td>
</tr>
<tr>
<td>Fuel Pressure Regulator (Diesel)</td>
<td>Mounted to the injection pump at the front of the engine center</td>
</tr>
<tr>
<td>Fuel Pump (Diesel)</td>
<td>On the left rear inner frame rail, in front of the rear fuel tank</td>
</tr>
<tr>
<td>Fuel Pump and Sender Assembly - Front (Gas)</td>
<td>Inside the fuel tank under the vehicle</td>
</tr>
<tr>
<td>Fuel Pump and Sender Assembly - Rear (Gas +LY6)</td>
<td>Inside the secondary fuel tank under the rear of the vehicle</td>
</tr>
<tr>
<td>Fuel Pump (FP) Relay - Secondary (Gas +LY6)</td>
<td>On the fuse block - underhood bracket</td>
</tr>
<tr>
<td>Fuel Rail Pressure (FRP) Sensor (Diesel)</td>
<td>Top of the engine mounted to the right fuel rail</td>
</tr>
<tr>
<td>Fuel Rail Temperature (FRT) Sensor (Diesel)</td>
<td>On the top left middle of the engine</td>
</tr>
<tr>
<td>Fuel System Control Module (Gas - 4.3L/LMG/LY6/LC9)</td>
<td>Mounted to the rear frame, near the spare tire mount</td>
</tr>
<tr>
<td>Fuel Tank Pressure (FTP) Sensor (Gas)</td>
<td>Mounted to the fuel pump and sender assembly</td>
</tr>
<tr>
<td>Fuse Block - I/P</td>
<td>Left of the I/P behind the side trim panel</td>
</tr>
<tr>
<td>Fuse Block - Mobile Radio (9L4)</td>
<td>Right side of the I/P behind the I/P compartment</td>
</tr>
<tr>
<td>Fuse Block - Underhood</td>
<td>Left side of the engine compartment</td>
</tr>
<tr>
<td>Fuse Holder - Underhood</td>
<td>Right rear of engine compartment mounted to the bulk head</td>
</tr>
<tr>
<td>Garage Door Opener (UGI)</td>
<td>Front of the passenger compartment in the overhead console</td>
</tr>
<tr>
<td>Generator (4.3L)</td>
<td>Right front top of the engine</td>
</tr>
<tr>
<td>Generator (Gas -4.3L)</td>
<td>Upper left front corner of the engine</td>
</tr>
<tr>
<td>Generator - Left (Diesel +K76)</td>
<td>Upper left front corner of the engine</td>
</tr>
<tr>
<td>Generator - Right (Diesel)</td>
<td>Upper right front corner of the engine</td>
</tr>
<tr>
<td>Glow Plug 1 (Diesel)</td>
<td>Near the right side engine rocker cover above cylinder #1</td>
</tr>
<tr>
<td>Glow Plug 2 (Diesel)</td>
<td>Near the left side engine rocker cover above cylinder #2</td>
</tr>
<tr>
<td>Glow Plug 3 (Diesel)</td>
<td>Near the right side engine rocker cover above cylinder #3</td>
</tr>
<tr>
<td>Glow Plug 4 (Diesel)</td>
<td>Near the left side engine rocker cover above cylinder #4</td>
</tr>
<tr>
<td>Glow Plug 5 (Diesel)</td>
<td>Near the right side engine rocker cover above cylinder #5</td>
</tr>
<tr>
<td>Glow Plug 6 (Diesel)</td>
<td>Near the left side engine rocker cover above cylinder #6</td>
</tr>
</tbody>
</table>

*(continued on Pg. B-47)*
### Electrical Component Locations (cont'd)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glow Plug 7 (Diesel)</td>
<td>Near the right side engine rocker cover above cylinder #7</td>
</tr>
<tr>
<td>Glow Plug 8 (Diesel)</td>
<td>Near the left side engine rocker cover above cylinder #8</td>
</tr>
<tr>
<td>Glow Plug Control Module (GPCM) (Diesel)</td>
<td>Left rear of the engine above the rocker cover to the left of the turbocharger</td>
</tr>
<tr>
<td>Headlamp - High Beam - Left</td>
<td>Left front of the vehicle</td>
</tr>
<tr>
<td>Headlamp - High Beam - Right</td>
<td>Right front of the vehicle</td>
</tr>
<tr>
<td>Headlamp - Low Beam - Left</td>
<td>Left front of the vehicle</td>
</tr>
<tr>
<td>Headlamp - Low Beam - Right</td>
<td>Right front of the vehicle</td>
</tr>
<tr>
<td>Headlamp and Panel Dimmer Switch</td>
<td>Left side of the I/P to the left side of the steering column</td>
</tr>
<tr>
<td>Heated Exygen Sensor (H02S) Bank 1 Sensor 1 (Gas)</td>
<td>Under the vehicle to the left side of the engine, in front of the catalytic converter</td>
</tr>
<tr>
<td>Heated Exygen Sensor (H02S) Bank 1 Sensor 2 (Gas)</td>
<td>Under the vehicle to the left side of the engine, behind the catalytic converter</td>
</tr>
<tr>
<td>Heated Exygen Sensor (H02S) Bank 2 Sensor 1 (Gas)</td>
<td>Under the vehicle to the right side of the engine, in front of the catalytic converter</td>
</tr>
<tr>
<td>Heated Exygen Sensor (H02S) Bank 2 Sensor 2 (Gas)</td>
<td>Under the vehicle to the right side of the engine, behind the catalytic converter</td>
</tr>
<tr>
<td>Heated Seat Element - Driver Back (AN3)</td>
<td>Under the driver seat back upholstery</td>
</tr>
<tr>
<td>Heated Seat Element - Driver Cushion (AN3)</td>
<td>Under the driver seat cushion upholstery</td>
</tr>
<tr>
<td>Heated Seat Element - Passenger Back (AN3)</td>
<td>Under the passenger seat back upholstery</td>
</tr>
<tr>
<td>Heated Seat Switch - Passenger (AN3)</td>
<td>Passenger door panel above the passenger door switch assembly</td>
</tr>
<tr>
<td>Heated Steering Wheel (KA9)</td>
<td>On the steering wheel</td>
</tr>
<tr>
<td>Heated Steering Wheel Control Module (KA9)</td>
<td>Lower left side of the steering wheel assembly behind the inflatable restraint steering wheel module</td>
</tr>
<tr>
<td>Hood Ajar Switch (AP3/AP8)</td>
<td>Part of the hood latch assembly</td>
</tr>
<tr>
<td>Horn - Left</td>
<td>Lower left front of the vehicle</td>
</tr>
<tr>
<td>Horn - Right (7Z1/YE9)</td>
<td>Lower right front of the vehicle</td>
</tr>
<tr>
<td>Horn Switch</td>
<td>In the steering wheel behind the inflatable restraint steering wheel module</td>
</tr>
<tr>
<td>HVAC Control Module</td>
<td>Center of the I/P below the radio</td>
</tr>
<tr>
<td>I/P Multifunction Switch Assembly (JL4/JF4/UD7/XA7)</td>
<td>Center of the I/P below the HVAC controls</td>
</tr>
<tr>
<td>Ignition Coil 1 (4.8L/5.3L/6.0L/6.3L)</td>
<td>Upper left side of the engine, at cylinder #1</td>
</tr>
<tr>
<td>Ignition Coil 2 (4.8L/5.3L/6.0L/6.3L)</td>
<td>Upper right side of the engine, at cylinder #2</td>
</tr>
<tr>
<td>Ignition Coil 3 (4.8L/5.3L/6.0L/6.3L)</td>
<td>Upper left side of the engine, at cylinder #3</td>
</tr>
<tr>
<td>Ignition Coil 4 (4.8L/5.3L/6.0L/6.3L)</td>
<td>Upper right side of the engine, at cylinder #4</td>
</tr>
<tr>
<td>Ignition Coil 5 (4.8L/5.3L/6.0L/6.3L)</td>
<td>Upper left side of the engine, at cylinder #5</td>
</tr>
<tr>
<td>Ignition Coil 6 (4.8L/5.3L/6.0L/6.3L)</td>
<td>Upper right side of the engine, at cylinder #6</td>
</tr>
</tbody>
</table>

(continued on Pg. B-48)
## Electrical Component Locations (cont'd)

### Component Name
- Ignition Coil 7 (4.8L/5.3L/6.0L/6.3L)
- Ignition Coil 8 (4.8L/5.3L/6.0L/6.3L)
- Ignition Control Module (ICM) (4.3L)
- Ignition Switch
- Inclination Sensor (SPO Alarm)
- Inflatable Restraint Front Sensor - Left (10 Series)
- Inflatable Restraint Front Sensor - Right (10 Series)
- Inflatable Restraint Front Sensor (-10 Series)
- Inflatable Restraint I/P Module
- Inflatable Restraint I/P Module Disable Switch
- Inflatable Restraint Passenger Air Bag ON/OFF Indicator (AL0/C99)
- Inflatable Restraint Passenger Presence System (PPS) Module (AL0)
- Inflatable Restraint Passenger Seat Belt Tension Sensor (AL0)
- Inflatable Restraint Roof Rail Module - Left (ASF)
- Inflatable Restraint Roof Rail Module - Right (ASF)
- Ignition Switch
- Inflatable Restraint Seat Position Sensor (SPS) - Left (10 Series)
- Inflatable Restraint Sensing and Diagnostic Module (SDM)
- Inflatable Restraint Side Impact Sensor (SIS) - Left Front (ASF)
- Inflatable Restraint Side Impact Sensor (SIS) - Left Rear (ASF + Crew Cab/Extended Cab)
- Inflatable Restraint Side Impact Sensor (SIS) - Right Front (ASF)
- Inflatable Restraint Side Impact Sensor (SIS) - Right Rear (ASF + Crew Cab/Extended Cab)
- Inflatable Restraint Steering Wheel Module
- Inflatable Restraint Steering Wheel Module Coil
- Inflatable Restraint Vehicle Rollover Sensor (ASF)
- Information Center Telltale Assembly (UD7)
- Infrared Module (U42)
- Input Speed Sensor (ISS) (M30/M70/MYC/MYD)
- Inside Air Temperature Sensor - Front (CJ2)
- Inside Rearview Mirror (ISRVM)

### Location
- Upper left side of the engine, at cylinder #7
- Upper right side of the engine, at cylinder #8
- Mounted to the right front of the intake manifold in front of the ignition coil
- In the upper steering column on the ignition key cylinder housing
- Behind the left I/P knee bolster on the floor heater duct
- Left front of the engine compartment on the lower radiator core support
- Right front of the engine compartment on the lower radiator core support
- Under the center of the radiator core support
- Right side of the I/P directly in front of the passenger seat
- In the I/P to the right of the radio
- Front of the passenger compartment in the overhead console
- Under the front passenger seat
- Part of the passenger seat belt buckle
- Behind the left side of the headliner trim to the rear of the C-pillar
- Behind the right side of the headliner trim to the rear of the C-pillar
- Right front corner of the driver seat track assembly
- Under the driver seat
- Inside the driver door
- Inside the left rear door
- Inside the passenger door
- Inside the right rear door
- On the steering wheel
- In the steering column behind the steering wheel
- Below the center console
- Top rear of the passenger compartment above the rear window
- In the roof mounted DVD system
- In the automatic transmission
- Left side of the headliner between A-pillar and B-pillar
- Mounted at the top center of the windshield

---

(continued on Pg. B-49)
### Electrical Component Locations (cont'd)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instrument Panel Cluster</td>
<td>Left side of the I/P above the steering column</td>
</tr>
<tr>
<td>Intake Air Heater (1AH) Module (Diesel)</td>
<td>Mounted at the front of the engine center</td>
</tr>
<tr>
<td>Intake Air Temperature (IAT) Sensor 2 (Diesel)</td>
<td>On the top front middle of the engine</td>
</tr>
<tr>
<td>Intake Air Valve (Diesel)</td>
<td>On the top right front of the engine</td>
</tr>
<tr>
<td>Internal Mode Switch (MYC/MYD)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>Junction Block - Left I/P</td>
<td>Lower left side of instrument panel to the left of the steering column</td>
</tr>
<tr>
<td>Junction Block - Rear Lamps</td>
<td>Inside of the left frame rail near the rear of the vehicle</td>
</tr>
<tr>
<td>Junction Block - Right I/P</td>
<td>Right side of the I/P behind the end trim panel</td>
</tr>
<tr>
<td>Knock Sensor (KS) - 1 (Gas)</td>
<td>Lower left side of engine</td>
</tr>
<tr>
<td>Knock Sensor (KS) - 2 (Gas)</td>
<td>Lower right side of engine</td>
</tr>
<tr>
<td>License Lamp - Left</td>
<td>Left center of the rear bumper</td>
</tr>
<tr>
<td>License Lamp - Right</td>
<td>Right center of the rear bumper</td>
</tr>
<tr>
<td>Line Pressure Control (PC) Solenoid (MYC/MYD)</td>
<td>Part of the automatic transmission</td>
</tr>
<tr>
<td>Manifold Absolute Pressure (MAP) Sensor</td>
<td>Top of the engine above intake manifold</td>
</tr>
<tr>
<td>Marker Lamp - Left Front (Z88)</td>
<td>Left front of the vehicle</td>
</tr>
<tr>
<td>Marker Lamp - Left Rear (Z88)</td>
<td>Part of the left rear tail lamp assembly</td>
</tr>
<tr>
<td>Marker Lamp - Right Front (Z88)</td>
<td>Right front of the vehicle</td>
</tr>
<tr>
<td>Marker Lamp - Right Rear (Z88)</td>
<td>Part of the right rear tail lamp assembly</td>
</tr>
<tr>
<td>Marker Lamp - Tailgate (R05)</td>
<td>Below the tailgate directly above the license plate</td>
</tr>
<tr>
<td>Mass Air Flow (MAF)/Intake Air Temperature (IAT) Sensor (Gas)</td>
<td>Right front of the engine compartment, in the air cleaner duct</td>
</tr>
<tr>
<td>Mass Air Flow (MAF)/Intake Air Temperature (IAT) Sensor (Diesel)</td>
<td>Right front of the engine compartment, in the air cleaner duct</td>
</tr>
<tr>
<td>Memory Seat Module (AN3)</td>
<td>Under the front of the driver seat above the seat track</td>
</tr>
<tr>
<td>Memory/Heated Seat Switch (AN3)</td>
<td>Driver door panel above the driver door switch assembly</td>
</tr>
<tr>
<td>Mod Main Pressure Control Solenoid (MW7)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>Mode Actuator</td>
<td>Left side of the HVAC module assembly</td>
</tr>
<tr>
<td>Mobile Radio Blunt Cut (9L4)</td>
<td>Below the center of the I/P</td>
</tr>
<tr>
<td>Noise Compensation Microphone (Y91)</td>
<td>Inside the center console</td>
</tr>
<tr>
<td>Object Sensor - Left Rear Corner (UD7)</td>
<td>Left rear corner of the bumper cover</td>
</tr>
<tr>
<td>Object Sensor - Left Rear Middle (UD7)</td>
<td>Left side of the bumper cover</td>
</tr>
<tr>
<td>Object Sensor - Right Rear Corner (UD7)</td>
<td>Right rear corner of the bumper cover</td>
</tr>
<tr>
<td>Object Sensor - Right Rear Middle (UD7)</td>
<td>Right side of the bumper cover</td>
</tr>
<tr>
<td>Output Speed Sensor (OSS) (MYC/MYD)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>Outside Moisture Sensor (CE1)</td>
<td>Mounted to the windshield near the inside rearview mirror</td>
</tr>
<tr>
<td>Outside Rearview Mirror - Driver (+DL3)</td>
<td>On the left front door</td>
</tr>
<tr>
<td>(continued on Pg. B-50)</td>
<td>(continued from column at left)</td>
</tr>
</tbody>
</table>
## Electrical Component Locations (cont’d)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside Rearview Mirror - Passenger (-DL3)</td>
<td>On the right front door</td>
</tr>
<tr>
<td>Outside Rearview Mirror - Passenger (+DL3)</td>
<td>On the right front door</td>
</tr>
<tr>
<td>Outside Rearview Mirror Switch (-DL3)</td>
<td>In the left front door trim panel</td>
</tr>
<tr>
<td>Park Brake Switch</td>
<td>Under the driver side I/P mounted to the park brake pedal assembly</td>
</tr>
<tr>
<td>Park/Neutral Position (PNP) Switch (M30/M70)</td>
<td>Mounted to the left front of the transmission, at the shift shaft</td>
</tr>
<tr>
<td>Park/Turn Signal Lamp - Left Front Lower</td>
<td>Left front of the vehicle</td>
</tr>
<tr>
<td>Park/Turn Signal Lamp - Left Front Upper</td>
<td>Left front of the vehicle</td>
</tr>
<tr>
<td>Park/Turn Signal Lamp - Right Front Lower</td>
<td>Right front of the vehicle</td>
</tr>
<tr>
<td>Park/Turn Signal Lamp - Right Front Upper</td>
<td>Right front of the vehicle</td>
</tr>
<tr>
<td>Passenger Door Switch (PDS) (AN3/DL3)</td>
<td>Mounted to the passenger door trim panel</td>
</tr>
<tr>
<td>Power Brake Booster (JL4)</td>
<td>Left rear corner of the engine compartment near the master cylinder</td>
</tr>
<tr>
<td>Power Take Off Blunt Cut (PTO)</td>
<td>--</td>
</tr>
<tr>
<td>Power Take Off (PTO) Module (PTO)</td>
<td>On the right side outer frame rail, near the right front tire</td>
</tr>
<tr>
<td>Power Take Off (PTO) Relay (PTO)</td>
<td>In the engine compartment</td>
</tr>
<tr>
<td>Power Take Off (PTO) Switch (PTO)</td>
<td>Center of the I/P to the right of the radio</td>
</tr>
<tr>
<td>Pressure Control (PC) Solenoid Valve (M30/M70)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>Pressure Control Solenoid 1 (PCS1) (MW7)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>Pressure Control Solenoid 2 (PCS2) (MW7)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>Pressure Control (PC) Solenoid 2 (MYC/MYD)</td>
<td>Part of the automatic transmission</td>
</tr>
<tr>
<td>Pressure Control (PC) Solenoid 3 (MYC/MYD)</td>
<td>Part of the automatic transmission</td>
</tr>
<tr>
<td>Pressure Control (PC) Solenoid 4 (MYC/MYD)</td>
<td>Part of the automatic transmission</td>
</tr>
<tr>
<td>Pressure Control (PC) Solenoid 5 (MYC/MYD)</td>
<td>Part of the automatic transmission</td>
</tr>
<tr>
<td>Pressure Switch Manifold (PSM) (MW7)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>Radio</td>
<td>Center of the I/P</td>
</tr>
<tr>
<td>Rear Object Control Module (UD7)</td>
<td>Under the right front seat</td>
</tr>
<tr>
<td>Rear Seat Audio (RSA) Controller (UK6)</td>
<td>Rear of the center console</td>
</tr>
<tr>
<td>Recirculation Actuator (CJ2/C67)</td>
<td>Top of the HVAC module on the right side</td>
</tr>
<tr>
<td>Remote Control Door Lock Receiver (RCDLR) (AP3/AP8)</td>
<td>Top rear of the passenger compartment above the rear window</td>
</tr>
<tr>
<td>Roof Beacon Switch (5X7/5Y0/TRW)</td>
<td>In the overhead console</td>
</tr>
<tr>
<td>Roof Beacon Relay (TRW)</td>
<td>Behind the overhead console, near the top</td>
</tr>
<tr>
<td>Roof Marker Lamp - Left (U01)</td>
<td>On the left side of the roof, above the windshield</td>
</tr>
<tr>
<td>Roof Marker Lamp - Right (U01)</td>
<td>On the right side of the roof, above the windshield</td>
</tr>
</tbody>
</table>

(continued on Pg. B-51)
### Electrical Component Locations (cont'd)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roof Mounted Beacon Blunt Cuts (TRW)</td>
<td>Behind the overhead console, on the right</td>
</tr>
<tr>
<td>Rotational Position Sensor (NQH)</td>
<td>Mounted to the transfer case</td>
</tr>
<tr>
<td>Run Relay (TP2)</td>
<td>At the right rear of the engine compartment, near the underhood fuse holder</td>
</tr>
<tr>
<td>Seat Adjuster Assembly - Driver (AG1)</td>
<td>Below the driver seat mounted to the seat track</td>
</tr>
<tr>
<td>Seat Adjuster Assembly - Passenger (AG2)</td>
<td>Below the passenger seat mounted to the seat track</td>
</tr>
<tr>
<td>Seat Adjuster Switch - Driver (AG1)</td>
<td>Lower left side of the driver seat</td>
</tr>
<tr>
<td>Seat Adjuster Switch - Passenger (AG2)</td>
<td>Lower right side of the passenger seat</td>
</tr>
<tr>
<td>Seat Belt Buckle - Driver</td>
<td>Right rear corner of the driver seat cushion frame</td>
</tr>
<tr>
<td>Seat Belt Buckle - Passenger (10 Series)</td>
<td>Left rear corner of the passenger seat cushion frame</td>
</tr>
<tr>
<td>Seat Belt Pretensioner - Driver</td>
<td>Part of the driver seat belt retractor assembly</td>
</tr>
<tr>
<td>Seat Belt Pretensioner - Passenger</td>
<td>Part of the passenger seat belt retractor assembly</td>
</tr>
<tr>
<td>Seat Front Vertical Motor - Driver (AG1)</td>
<td>Part of the seat adjuster assembly - driver</td>
</tr>
<tr>
<td>Seat Front Vertical Motor - Passenger (AG2)</td>
<td>Part of the seat adjuster assembly - passenger</td>
</tr>
<tr>
<td>Seat Front Vertical Motor Position Sensor (AN3)</td>
<td>Under the driver seat, toward the middle</td>
</tr>
<tr>
<td>Seat Horizontal Motor - Driver (AG1)</td>
<td>Part of the seat adjuster assembly - driver</td>
</tr>
<tr>
<td>Seat Horizontal Motor - Passenger (AG2)</td>
<td>Part of the seat adjuster assembly - passenger</td>
</tr>
<tr>
<td>Seat Horizontal Motor Position Sensor - Driver (AN3)</td>
<td>Under the driver seat, toward the front</td>
</tr>
<tr>
<td>Seat Lumbar Horizontal Motor - Driver (AN3)</td>
<td>In the driver seat back, on the left</td>
</tr>
<tr>
<td>Seat Lumbar Horizontal Motor - Passenger (AN3)</td>
<td>In the passenger seat back, on the right</td>
</tr>
<tr>
<td>Seat Lumbar Switch - Driver (AN3)</td>
<td>Lower left side of the driver seat</td>
</tr>
<tr>
<td>Seat Lumbar Switch - Passenger (AN3)</td>
<td>Lower right side of the passenger seat</td>
</tr>
<tr>
<td>Seat Lumbar Vertical Motor - Driver (AN3)</td>
<td>In the driver seat back, on the right</td>
</tr>
<tr>
<td>Seat Lumbar Vertical Motor - Passenger (AN3)</td>
<td>In the passenger seat back, on the left</td>
</tr>
<tr>
<td>Seat Lumbar Vertical Motor Position Sensor - Driver (AN3)</td>
<td>In the driver seat back, on the right</td>
</tr>
<tr>
<td>Seat Rear Vertical Motor - Driver (AG1)</td>
<td>Part of the seat adjuster assembly - driver</td>
</tr>
<tr>
<td>Seat Rear Vertical Motor - Driver (AG2)</td>
<td>Part of the seat adjuster assembly - passenger</td>
</tr>
<tr>
<td>Seat Recline Motor - Driver (AN3)</td>
<td>Lower right side of the passenger seat, below the seat back upholstery</td>
</tr>
<tr>
<td>Seat Recline Motor - Passenger (AN3)</td>
<td>Lower right side of the passenger seat, below the seat back upholstery</td>
</tr>
<tr>
<td>Seat Recline Position Sensor - Driver (AN3)</td>
<td>Lower right side of the driver seat back, below the seat back upholstery</td>
</tr>
</tbody>
</table>

(continued on Pg. B-52)
### Electrical Component Locations (cont'd)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Security Indicator Lamp (SPO Alarm)</strong></td>
<td>--</td>
</tr>
<tr>
<td><strong>Shift Solenoid 1 (SS1) (MW7)</strong></td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td><strong>Shift Solenoid 2 (SS2) (MW7)</strong></td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td><strong>Shift Solenoid 3 (SS3) (MW7)</strong></td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td><strong>Shift Solenoid (SS) 1 (MYC/MYD)</strong></td>
<td>Part of the automatic transmission</td>
</tr>
<tr>
<td><strong>Shift Solenoid (SS) 2 (MYC/MYD)</strong></td>
<td>Part of the automatic transmission</td>
</tr>
<tr>
<td><strong>Shock Sensor (SPO Alarm)</strong></td>
<td>Under the right side of the I/P</td>
</tr>
<tr>
<td><strong>Sliding Rear Window Close Relay (A48)</strong></td>
<td>On the right rear of the cab wall, behind the trim panel</td>
</tr>
<tr>
<td><strong>Sliding Rear Window Motor (A48)</strong></td>
<td>Below the rear window</td>
</tr>
<tr>
<td><strong>Sliding Rear Window Open Relay (A48)</strong></td>
<td>On the right rear of the cab wall, behind the trim panel</td>
</tr>
<tr>
<td><strong>Sliding Rear Window Switch (A48)</strong></td>
<td>In the overhead console</td>
</tr>
<tr>
<td><strong>Speaker - Center (UQA +Y91)</strong></td>
<td>In the center of the upper I/P pad</td>
</tr>
<tr>
<td><strong>Speaker - Left Front</strong></td>
<td>Behind the left front door trim panel</td>
</tr>
<tr>
<td><strong>Speaker - Left Front Tweeter (UQ3/UQA)</strong></td>
<td>Behind the left A-pillar trim panel</td>
</tr>
<tr>
<td><strong>Speaker - Left Rear (Regular Cab)</strong></td>
<td>Behind the left B-pillar trim panel</td>
</tr>
<tr>
<td><strong>Speaker - Left Rear Door (Extended Cab/Crew Cab)</strong></td>
<td>Behind the left rear door trim panel</td>
</tr>
<tr>
<td><strong>Speaker - Right Front</strong></td>
<td>Behind the passenger door trim panel</td>
</tr>
<tr>
<td><strong>Speaker - Right Front Tweeter (UQ3/UQA)</strong></td>
<td>Behind the right A-pillar trim panel</td>
</tr>
<tr>
<td><strong>Speaker - Right Rear (Regular Cab)</strong></td>
<td>Behind the right B-pillar trim panel</td>
</tr>
<tr>
<td><strong>Speaker - Right Rear Door (Extended Cab/Crew Cab)</strong></td>
<td>Behind the right rear door trim panel</td>
</tr>
<tr>
<td><strong>Starter</strong></td>
<td>Lower right corner of the engine</td>
</tr>
</tbody>
</table>

(continued from column at left)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Steering Angle Sensor (JL4)</strong></td>
<td>Mounted to the steering column below the shift interlock slenoid</td>
</tr>
<tr>
<td><strong>Steering Wheel Control Switch Assembly - Left (K34/KA9)</strong></td>
<td>Left center of the steering wheel to the left of the inflatable restraint steering wheel module</td>
</tr>
<tr>
<td><strong>Steering Wheel Control Switch Assembly - Right (UK3)</strong></td>
<td>Right center of the steering wheel to the right of the inflatable restraint steering wheel module</td>
</tr>
<tr>
<td><strong>Stop Lamp Switch</strong></td>
<td>Top of the brake pedal assembly</td>
</tr>
<tr>
<td><strong>Sunroof Module (CF5)</strong></td>
<td>Front of the passenger compartment above the headliner</td>
</tr>
<tr>
<td><strong>Sunroof Switch (CF5)</strong></td>
<td>Front of the passenger compartment in the overhead console</td>
</tr>
<tr>
<td><strong>Sunshade - Left (DH6)</strong></td>
<td>Front left roof line mounted to the headliner</td>
</tr>
<tr>
<td><strong>Sunshade - Right (DH6)</strong></td>
<td>Front right roof line mounted to the headliner</td>
</tr>
<tr>
<td><strong>Tail/Stop and Turn Signal Lamp - Lower Left</strong></td>
<td>Left rear of the vehicle</td>
</tr>
<tr>
<td><strong>Tail/Stop and Turn Signal Lamp - Lower Right</strong></td>
<td>Right rear of the vehicle</td>
</tr>
<tr>
<td><strong>Tail/Stop and Turn Signal Lamp - Upper Left</strong></td>
<td>Left rear of the vehicle</td>
</tr>
<tr>
<td><strong>Tail/Stop and Turn Signal Lamp - Upper Right</strong></td>
<td>Right rear of the vehicle</td>
</tr>
<tr>
<td><strong>Terminator Resister</strong></td>
<td>In the chassis harness on the left rear chassis crossmember near the evaporative emissions canister</td>
</tr>
<tr>
<td><strong>Theft Deterrent Control Module</strong></td>
<td>Right side of the steering column near the ignition key cylinder</td>
</tr>
</tbody>
</table>

(continued on Pg. B-53)
### Electrical Component Locations (cont'd)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Throttle Body (Gas)</td>
<td>Mounted to the front of the intake manifold</td>
</tr>
<tr>
<td>Torque Converter Clutch (TCC) Solenoid Valve (M30/M70)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>Torque Converter Clutch Pressure Control Solenoid (TCC PCS) (MW7)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>Torque Converter Clutch Pulse Width Modulation (TCC PWM) Solenoid Valve (M30/M70)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>Torque Converter Clutch (TCC) Pressure Control (PC) Solenoid (MYC/MYD)</td>
<td>Part of the automatic transmission</td>
</tr>
<tr>
<td>Tow/Haul Switch (M30/M70/MYC/MYD/MW7)</td>
<td>Part of the automatic transmission shift lever</td>
</tr>
<tr>
<td>Traction Control Switch (JL4)</td>
<td>Center of the I/P near the radio, part of the I/P multifunction switch assembly</td>
</tr>
<tr>
<td>Trailer Blunt Cut (Export)</td>
<td>--</td>
</tr>
<tr>
<td>Trailer Brake Blunt Cut (Domestic)</td>
<td>Under the left side of the I/P, taped to the BCM wiring</td>
</tr>
<tr>
<td>Trailer Brake Control Panel Switch (JL1)</td>
<td>Lower left side of the I/P</td>
</tr>
<tr>
<td>Trailer Brake Controller Module (TBCM) (JL1 +20/30 Series)</td>
<td>On the left side inner frame rail, near the rear of the vehicle</td>
</tr>
<tr>
<td>Trailer Brake Controller Module (TBCM) (JL1 +31 Series)</td>
<td>On the right side inner frame rail, near the rear of the vehicle</td>
</tr>
<tr>
<td>Trailer Brake Controller Solid State Relay (JL1 +20/30 Series)</td>
<td>On the left side inner frame rail, near the rear of the vehicle</td>
</tr>
<tr>
<td>Trailer Brake Controller Solid State Relay (JL1 +31 Series)</td>
<td>On the right side inner frame rail, near the rear of the vehicle</td>
</tr>
</tbody>
</table>

### (continued from column at left)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trailer Connector (UY7)</td>
<td>Rear of the vehicle, to the left of the license plate</td>
</tr>
<tr>
<td>Transfer Case Encoder Motor (NQF/NQH)</td>
<td>Mounted to the transfer case</td>
</tr>
<tr>
<td>Transfer Case Shift Control Module (NQF/NQH)</td>
<td>Lower left side of the I/P near the steering column</td>
</tr>
<tr>
<td>Transfer Case Shift Control Switch (NQF/NQH -YE9)</td>
<td>Center of the I/P, to the left of the radio</td>
</tr>
<tr>
<td>Transfer Case Shift Control Switch (NQF/NQH +YE9)</td>
<td>Left side of the I/P, to the left of the steering wheel</td>
</tr>
<tr>
<td>Transfer Case Shift Control Switch (NQG/NP2)</td>
<td>On top of the transfer case</td>
</tr>
<tr>
<td>Transmission Control Module (TCM) (M30/M70/MW7)</td>
<td>Left front of the engine compartment near the fan shroud</td>
</tr>
<tr>
<td>Transmission Control Module (TCM) (MYC/MYD)</td>
<td>Part of the automatic transmission</td>
</tr>
<tr>
<td>Transmission Fluid Pressure (TFP) Switch (MYC/MYD)</td>
<td>Part of the automatic transmission</td>
</tr>
<tr>
<td>Transmission Fluid Temperature (TFT) Sensor (MYC/MYD)</td>
<td>Part of the automatic transmission</td>
</tr>
<tr>
<td>Transmission Internal Mode Switch (MW7)</td>
<td>In the automatic transmission</td>
</tr>
<tr>
<td>Turbocharger Vane Position Control Solenoid Valve (Diesel)</td>
<td>On the top center of the engine</td>
</tr>
<tr>
<td>Turbocharger Vane Position Sensor (Diesel)</td>
<td>On the top left front of the engine</td>
</tr>
<tr>
<td>Turn Signal Malfunction Switch</td>
<td>Mounted to the left side of the steering column behind the steering wheel</td>
</tr>
</tbody>
</table>

(continued on Pg. B-54)
## Electrical Component Locations (cont'd)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve Lifter Oil Manifold (VLOM) Assembly (5.3L/6.0L/6.2L)</td>
<td>Mounted in the valve lifter valley below the intake manifold</td>
</tr>
<tr>
<td>Vehicle Communication Interface Module (VCIM) (UE1 +YE9)</td>
<td>Center of the I/P, behind the HVAC control head</td>
</tr>
<tr>
<td>Vehicle Communication Interface Module (VCIM) (UE1 -YE9)</td>
<td>Center of the I/P, below the lower center I/P Panel</td>
</tr>
<tr>
<td>Vehicle Speed Sensor (VSS) (M30/M70/MYD/MW7)</td>
<td>In the tailshaft housing of the transmission</td>
</tr>
<tr>
<td>Video Display (U42)</td>
<td>In the headliner between the front and second row seating</td>
</tr>
<tr>
<td>Washer Fluid Level Switch</td>
<td>Mounted in bottom of the washer fluid reservoir</td>
</tr>
<tr>
<td>Water In Fuel Sensor (Diesel)</td>
<td>Bottom of the fuel filter on the right side of the engine</td>
</tr>
<tr>
<td>Wheel Speed Sensor (WSS) - Left Front (JL4/JF3/JF7/JH6/JH7)</td>
<td>Mounted to the left front steering knuckle assembly</td>
</tr>
<tr>
<td>Wheel Speed Sensor (WSS) - Left Rear (JL4)</td>
<td>Mounted to the left rear brake backing plate</td>
</tr>
<tr>
<td>Wheel Speed Sensor (WSS) - Right Front (JL4/JF3/JF7/JH6/JH7)</td>
<td>Mounted to the right front steering knuckle assembly</td>
</tr>
<tr>
<td>Wheel Speed Sensor (WSS) - Right Rear (JL4)</td>
<td>Mounted to the left rear brake backing plate</td>
</tr>
<tr>
<td>Window Motor - Driver (A31)</td>
<td>Inside the driver door mounted to the window regulator, to the rear of the door speaker</td>
</tr>
<tr>
<td>Window Motor - Left Rear (Crew Cab +31/Extended Cab +ABV)</td>
<td>Inside the left rear door mounted to the window regulator, above the door speaker</td>
</tr>
<tr>
<td>Window Motor - Passenger (A31)</td>
<td>Inside the passenger door mounted to the window regulator, to the rear of the door speaker</td>
</tr>
</tbody>
</table>

(continued from column at left)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Window Motor - Right Rear (Crew Cab +31/Extended Cab +ABV)</td>
<td>In the right rear door mounted to the window regulator</td>
</tr>
<tr>
<td>Window Switch - Driver (A31 -AN3/DL3)</td>
<td>In the left front door trim panel</td>
</tr>
<tr>
<td>Window Switch - Left Rear (Crew Cab +31/Extended Cab +ABV)</td>
<td>In the left rear door trim panel</td>
</tr>
<tr>
<td>Window Switch - Passenger (A31 -AN3/DL3)</td>
<td>In the right front door trim panel</td>
</tr>
<tr>
<td>Window Switch - Right Rear (Crew Cab +31/Extended Cab +ABV)</td>
<td>In the right rear door trim panel</td>
</tr>
<tr>
<td>Windshield Washer Fluid Pump</td>
<td>Left front corner of the engine compartment mounted in the bottom of the windshield washer fluid reservoir</td>
</tr>
<tr>
<td>Windshield Washer Solvent Heater (XA7)</td>
<td>Left rear corner of the engine compartment</td>
</tr>
<tr>
<td>Windshield Wiper Motor</td>
<td>Under the windshield cowl between the wiper arms</td>
</tr>
<tr>
<td>Wrecker Relay (5X7)</td>
<td>In the right rear corner of the engine compartment, above the right front wheel house</td>
</tr>
<tr>
<td>Yaw Rate and Lateral Acceleration Sensor (JL4)</td>
<td>Under the center console trim panel</td>
</tr>
</tbody>
</table>
**Mating Connector Part Information**

<table>
<thead>
<tr>
<th>Junction Block – Left I/P – X5</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>D-GN/WH</td>
<td>817</td>
<td>Vehicle Speed Signal 4KPPM</td>
</tr>
<tr>
<td>B</td>
<td>——</td>
<td>——</td>
<td>Not Used</td>
</tr>
<tr>
<td>C</td>
<td>D-GN</td>
<td>5060</td>
<td>Low Speed GMLAN Serial Data</td>
</tr>
<tr>
<td>D</td>
<td>RD/BK</td>
<td>4550</td>
<td>15A BATT</td>
</tr>
</tbody>
</table>

Note: Keying for Connector 12194033 is shown in part drawing as type 103
### Left I/P Junction Block Location

#### Circuit Breakers

<table>
<thead>
<tr>
<th>Circuit Breaker</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB1 = RT DOORS</td>
<td>(25A) Passenger Door Module (PDM), Window Switch-RR</td>
</tr>
<tr>
<td>CB2 = PASS SEAT 1</td>
<td>(25A) Seat Adjuster Switch-Passenger, Seat Lumbar Switch-Passenger (AN3)</td>
</tr>
<tr>
<td>CB3 = DRIVER SEAT 2</td>
<td>(25A) Memory Seat Module (AN3), Seat Adjuster Switch-Driver (AG1 Except AN3)</td>
</tr>
<tr>
<td>CB4 = PWR REAR WNDW</td>
<td>(25A) Not Used</td>
</tr>
</tbody>
</table>

#### Junction Block - Left I/P, Device Usage

<table>
<thead>
<tr>
<th>Device</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRIVER SEAT 2</td>
<td>25A</td>
<td>Memory Seat Module (AN3), Seat Adjuster Switch-Driver (AG1 Except AN3)</td>
</tr>
<tr>
<td>Circuit Breaker</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PASS SEAT 1</td>
<td>25A</td>
<td>Seat Adjuster Switch-Passenger, Seat Lumbar Switch-Passenger (AN3)</td>
</tr>
<tr>
<td>Circuit Breaker</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PWR REAR WDW</td>
<td>25A</td>
<td>Not Used</td>
</tr>
<tr>
<td>Circuit Breaker</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RT DOORS</td>
<td>25A</td>
<td>Passenger Door Module (PDM), Window Switch-RR</td>
</tr>
<tr>
<td>Circuit Breaker</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Below the I/P

1. I/P Trim
2. I/P Cluster Trim
3. Floor Panel
4. (4) Junction Block - Left I/P
   (5) Body Control Module (BCM)
   (6) Transfer Case Shift Control Module
   (7) Fuse Block - I/P
### Engine Control Module (ECM): LU3 – 4.3L Gas – Connector X-1

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.35 D-BU</td>
<td>1161</td>
<td>APP Sensor 1 Signal</td>
</tr>
<tr>
<td>2</td>
<td>0.5 PU</td>
<td>1670</td>
<td>HO2S High Signal Bank 2 Sensor 2</td>
</tr>
<tr>
<td>3</td>
<td>0.5 D-BU</td>
<td>5985</td>
<td>Accessory Wakeup Serial Data</td>
</tr>
<tr>
<td>4</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>5</td>
<td>0.35 D-GN</td>
<td>335</td>
<td>Low Speed Cooling Fan Relay Control</td>
</tr>
<tr>
<td>6</td>
<td>0.35 D-GN/WH</td>
<td>465</td>
<td>Fuel Pump Relay Control-Primary</td>
</tr>
<tr>
<td>7</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>8</td>
<td>0.35 TN</td>
<td>5514</td>
<td>Low Reference (CJ2/C67)</td>
</tr>
<tr>
<td>9</td>
<td>0.5 TN/WH</td>
<td>1669</td>
<td>HO2S Low Signal Bank 1 Sensor 2</td>
</tr>
<tr>
<td>10</td>
<td>0.5 TN</td>
<td>1671</td>
<td>HO2S Low Signal Bank 2 Sensor 2</td>
</tr>
<tr>
<td>11-12</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>13</td>
<td>0.35 YE</td>
<td>5991</td>
<td>Powertrain Relay Coil Control</td>
</tr>
<tr>
<td>14</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>15</td>
<td>0.5 GY/WH</td>
<td>3122</td>
<td>HO2S Heater Low Control Bank 1 Sensor 2</td>
</tr>
<tr>
<td>16</td>
<td>0.5 OG/WH</td>
<td>3223</td>
<td>HO2S Heater Low Control Bank 2 Sensor 2</td>
</tr>
<tr>
<td>17</td>
<td>0.5 PU/WH</td>
<td>1668</td>
<td>HO2S High Signal Bank 1 Sensor 2</td>
</tr>
<tr>
<td>18</td>
<td>0.35 L-BU</td>
<td>1162</td>
<td>APP Sensor 2 Signal</td>
</tr>
<tr>
<td>19</td>
<td>0.5 PK</td>
<td>439</td>
<td>Ignition 1 Voltage</td>
</tr>
<tr>
<td>20</td>
<td>0.5 RD/WH</td>
<td>440</td>
<td>Battery Positive Voltage</td>
</tr>
<tr>
<td>21</td>
<td>0.35 PU</td>
<td>1272</td>
<td>Low Reference</td>
</tr>
<tr>
<td>22-23</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>Pin</td>
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### Engine Control Module (ECM): LU3 – 4.3L Gas – Connector X-2

**OEM:** 15497996  
**Service:** 88988372  
**Description:** 73-Way F 0.64 2.8 Series Sealed (BK)

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**Engine Control Module (ECM): LU3 – 4.3L Gas – Connector X-2 (continued)**

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Engine Control Module (ECM): LU3 – 4.3L Gas – Location

(1) Battery Current Sensor
(2) Mega Fuse
(3) A/C Low Pressure Switch (C67/CJ2)
(4) Fuse Block – Underhood
(5) **Engine Control Module (ECM)**
(6) A/C Refrigerant Pressure Sensor (C67/CJ2)
(7) Mass Airflow (MAF)/Intake Air Temperature (IAT) Sensor
(8) Battery – Right
### Engine Control Module (ECM) – 4.8L, 5.3L, 6.0L, & 6.2L Gas – Connector X-1

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### Engine Control Module (ECM) – 4.8L, 5.3L, 6.0L, & 6.2L Gas – Connector X-2

#### Connector Information:
- **Connector:** 80-Way F Receptacle 0.64 2.8 Sealed (GY)
- **O.E.M.:** 13511426
- **Color:** GY
- **Service:** 19115670

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Engine Control Module (ECM) – 4.8L, 5.3L, 6.0L, & 6.2L Gas – Location

1. Windshield Wiper Motor and Module
2. Power Brake Booster
3. Windshield Washer Solvent Heater
4. Fuse Block - Underhood
5. **Engine Control Module (ECM)**
6. Transmission Control Module (TCM)
7. Brake Booster Vacuum Sensor
8. Brake Fluid Level Switch
Engine Control Module (ECM): LMM 6.6L Diesel – Connector X-1

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<td>4WD Low Signal (NQG)</td>
</tr>
<tr>
<td>58-61</td>
<td>--</td>
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</tr>
<tr>
<td>62</td>
<td>0.5 TN</td>
<td>2760</td>
<td>Low Reference</td>
</tr>
<tr>
<td>63</td>
<td>0.5 OG/BK</td>
<td>5929</td>
<td>Low Reference</td>
</tr>
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<td>64</td>
<td>0.5 L-BU/BK</td>
<td>6813</td>
<td>Low Reference</td>
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<td>65</td>
<td>0.5 L-BU</td>
<td>6118</td>
<td>Air Temperature Sensor Signal</td>
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<tr>
<td>66</td>
<td>--</td>
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</tr>
<tr>
<td>67</td>
<td>0.5 BN/WH</td>
<td>5763</td>
<td>EGR Valve Sensor Signal</td>
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<td>68</td>
<td>0.5 YE</td>
<td>410</td>
<td>ECT Sensor Signal</td>
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<td>69</td>
<td>0.5 D-BU</td>
<td>5277</td>
<td>Exhaust Gas Temperature Sensor</td>
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<tr>
<td>70</td>
<td>0.5 BN</td>
<td>6782</td>
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<tr>
<td>71</td>
<td>0.5 YE/BK</td>
<td>625</td>
<td>Starter Enable Relay Control</td>
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<td>72</td>
<td>0.5 YE</td>
<td>2834</td>
<td>Fuel Pressure Regulator Solenoid Control</td>
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<tr>
<td>73</td>
<td>1 YE</td>
<td>5422</td>
<td>Fuel Injector Supply Voltage 2</td>
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<tr>
<td>74</td>
<td>1 TN</td>
<td>1744</td>
<td>Fuel Injector 1 Control</td>
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<tr>
<td>75</td>
<td>1 L-GN/BK</td>
<td>1745</td>
<td>Fuel Injector 2 Control</td>
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<tr>
<td>76</td>
<td>0.5 PK</td>
<td>1339</td>
<td>Ignition 1 Voltage</td>
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*chart continued on next page*
### Engine Control Module (ECM): LMM 6.6L Diesel – Connector X-1 (continued)

<table>
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<th>Pin</th>
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<th>Circuit No.</th>
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<tbody>
<tr>
<td>77</td>
<td>0.5 RD/WH</td>
<td>440</td>
<td>Battery Positive Voltage</td>
</tr>
<tr>
<td>78</td>
<td>0.5 PU</td>
<td>1272</td>
<td>Low Reference</td>
</tr>
<tr>
<td>79</td>
<td>0.5 WH/BK</td>
<td>6271</td>
<td>CKP Sensor Signal</td>
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<tr>
<td>80-81</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>82</td>
<td>0.5 TN/WH</td>
<td>1695</td>
<td>Axle Switch Signal (NQG)</td>
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<tr>
<td>83</td>
<td>0.5 L-BU/WH</td>
<td>6311</td>
<td>TCC Brake Signal</td>
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<tr>
<td>84</td>
<td>0.5 D-GN/WH</td>
<td>6142</td>
<td>Power Take Off Engine Shutdown Signal (PTO)</td>
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<tr>
<td>85</td>
<td>0.5 YE/BK</td>
<td>508</td>
<td>Low Reference</td>
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<tr>
<td>86</td>
<td>0.5 TN</td>
<td>2753</td>
<td>Low Reference</td>
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<td>87</td>
<td>0.5 GY/BK</td>
<td>5765</td>
<td>Fuel Filter Pressure Switch Signal</td>
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<tr>
<td>88</td>
<td>0.5 BN</td>
<td>6266</td>
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<td>89-90</td>
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<td>Not Used</td>
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<td>91</td>
<td>0.5 D-GN</td>
<td>485</td>
<td>TP Sensor Signal</td>
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<td>92</td>
<td>0.5 YE</td>
<td>2918</td>
<td>FRP Sensor Signal</td>
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<tr>
<td>93</td>
<td>0.5 L-BU</td>
<td>5377</td>
<td>Exhaust Gas Temperature Sensor</td>
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<tr>
<td>94</td>
<td>0.5 BN/WH</td>
<td>6783</td>
<td>Low Reference</td>
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<tr>
<td>95</td>
<td>--</td>
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<tr>
<td>96</td>
<td>0.5 WH</td>
<td>5931</td>
<td>Low Reference</td>
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### Engine Control Module (ECM): LMM 6.6L Diesel – Connector X-2

**OEM:** 15462694  
**Service:** 88988935  
**Description:** 58-Way F Mixed Series Sealed  
**Color:** BLK

<table>
<thead>
<tr>
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<th>Function</th>
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<tbody>
<tr>
<td>1</td>
<td>2 PK</td>
<td>1439</td>
<td>Ignition 1 Voltage</td>
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<tr>
<td>2</td>
<td>2 BK/WH</td>
<td>451</td>
<td>Ground</td>
</tr>
<tr>
<td>3</td>
<td>2 PK</td>
<td>1439</td>
<td>Ignition 1 Voltage</td>
</tr>
<tr>
<td>4</td>
<td>2 BK/WH</td>
<td>451</td>
<td>Ground</td>
</tr>
<tr>
<td>5</td>
<td>2 PK</td>
<td>1439</td>
<td>Ignition 1 Voltage</td>
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<tr>
<td>6</td>
<td>2 BK/WH</td>
<td>451</td>
<td>Ground</td>
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<td>7</td>
<td>0.8 BN</td>
<td>582</td>
<td>Motor Control - 2</td>
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<tr>
<td>8</td>
<td>0.8 BN</td>
<td>25</td>
<td>Charge Indicator Control</td>
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<tr>
<td>9-11</td>
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<td>Not Used</td>
</tr>
<tr>
<td>12</td>
<td>0.5 D-GN/WH</td>
<td>465</td>
<td>Fuel Pump Relay Control</td>
</tr>
<tr>
<td>13</td>
<td>0.5 TN</td>
<td>5514</td>
<td>Low Reference (CJ2/C67)</td>
</tr>
<tr>
<td>14</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>15</td>
<td>0.5 WH/BK</td>
<td>1164</td>
<td>5-Volt Reference 3</td>
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<tr>
<td>16</td>
<td>0.5 D-BU</td>
<td>507</td>
<td>Wait to Start Indicator Control</td>
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<tr>
<td>17-18</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
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<tr>
<td>19</td>
<td>0.5 YE</td>
<td>5991</td>
<td>Powertrain Relay Coil Control</td>
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<tr>
<td>20</td>
<td>0.8 YE</td>
<td>581</td>
<td>Motor Control - 1</td>
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<tr>
<td>21</td>
<td>0.5 PK</td>
<td>439</td>
<td>Ignition 1 Voltage</td>
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<tr>
<td>22-25</td>
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<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>26</td>
<td>0.5 BN/WH</td>
<td>6141</td>
<td>Low References</td>
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<tr>
<td>27</td>
<td>0.5 GY</td>
<td>2700</td>
<td>5-Volt Reference 2 (CJ2/C67)</td>
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chart continued on next page
### Engine Control Module (ECM): LMM 6.6L Diesel – Connector X-2 (continued)

<table>
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<th>Pin</th>
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<tbody>
<tr>
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<td>0.5 GY</td>
<td>2365</td>
<td>5-Volt Reference</td>
</tr>
<tr>
<td>29</td>
<td>0.5 BN</td>
<td>1271</td>
<td>Low Reference</td>
</tr>
<tr>
<td>30</td>
<td>0.5 BN/WH</td>
<td>419</td>
<td>MIL Control</td>
</tr>
<tr>
<td>31</td>
<td>0.5 D-GN/WH</td>
<td>459</td>
<td>A/C Compressor Clutch Relay Control (CJ2/C67)</td>
</tr>
<tr>
<td>32</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>33</td>
<td>0.5 OG/BK</td>
<td>5764</td>
<td>Exhaust Gas Recirculation Valve Motor High Signal</td>
</tr>
<tr>
<td>34</td>
<td>0.5 TN/BK</td>
<td>6049</td>
<td>Low Reference</td>
</tr>
<tr>
<td>35</td>
<td>0.5 OG/BK</td>
<td>380</td>
<td>A/C Refrigerant Pressure Sensor Signal (CJ2/C67)</td>
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<td>36</td>
<td>0.5 PU</td>
<td>1589</td>
<td>Fuel Level Sensor Signal</td>
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<tr>
<td>37</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>38</td>
<td>0.8 GY</td>
<td>23</td>
<td>Generator Field Duty Cycle Signal</td>
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<tr>
<td>39</td>
<td>0.5 OG/BK</td>
<td>1786</td>
<td>Park/Neutral Signal</td>
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<tr>
<td>40-43</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
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<tr>
<td>44</td>
<td>0.5 TN</td>
<td>2501</td>
<td>High Speed GMLAN Serial Data Bus (-)</td>
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<tr>
<td>45</td>
<td>0.5 OG/BK</td>
<td>6399</td>
<td>VSS High Signal</td>
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<tr>
<td>46</td>
<td>0.5 L-GN/BK</td>
<td>5746</td>
<td>EGR Valve Motor Low Control</td>
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<td>47</td>
<td>0.5 BN</td>
<td>6062</td>
<td>Low Reference</td>
</tr>
<tr>
<td>48</td>
<td>0.5 YE</td>
<td>1578</td>
<td>Fuel Temperature Sensor Signal</td>
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<tr>
<td>49</td>
<td>0.5 D-BU</td>
<td>1161</td>
<td>APP Sensor 1 Signal</td>
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<td>50</td>
<td>0.5 L-BU</td>
<td>1937</td>
<td>Secondary Fuel Level Sensor Signal (-NQZ)</td>
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<td>51-53</td>
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<td>Not Used</td>
</tr>
<tr>
<td>54</td>
<td>0.5 YE/BK</td>
<td>1827</td>
<td>Vehicle Speed Signal</td>
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<td>--</td>
<td>Not Used</td>
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<tr>
<td>56</td>
<td>0.5 D-BU</td>
<td>5985</td>
<td>Accessory Wakeup Serial Data</td>
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<td>57</td>
<td>0.5 TN/BK</td>
<td>2500</td>
<td>High Speed GMLAN Serial Data Bus (+)</td>
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<tr>
<td>58</td>
<td>--</td>
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<td>Not Used</td>
</tr>
</tbody>
</table>
Engine Control Module (ECM): LMM 6.6L Diesel – Location

(1) Battery – Right
(2) Fuse Holder – Underhood
(3) X127
(4) X108
(5) X107
(6) X123 (PTO)
(7) Fuse Block – Underhood
(8) X109
(9) Battery – Left (6A6/TP2)
(10) Engine Control Module (ECM)
(11) Transmission Control Module (TCM)
9.2. Connector Pin Functions

<table>
<thead>
<tr>
<th>Pin</th>
<th>Circuit Number*</th>
<th>Wire Color*</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>6085</td>
<td>BN/WH</td>
<td>Remote Engine Start Input</td>
</tr>
<tr>
<td>B</td>
<td>494</td>
<td>L-BU</td>
<td>Remote Engine Shutdown Input</td>
</tr>
<tr>
<td>C</td>
<td>978</td>
<td>GY</td>
<td>PTO Remote Enable Input</td>
</tr>
<tr>
<td>D</td>
<td>550</td>
<td>BK</td>
<td>Power Ground</td>
</tr>
<tr>
<td>E</td>
<td>975</td>
<td>WH</td>
<td>+5 volt Sensor/Switch Reference (50 ma)</td>
</tr>
<tr>
<td>F</td>
<td>6142</td>
<td>D-GN/WH</td>
<td>PTO Switch Reference Output (300 ma)</td>
</tr>
<tr>
<td>G</td>
<td>2522</td>
<td>YE</td>
<td>PTO Load Feedback</td>
</tr>
<tr>
<td>H</td>
<td>2562</td>
<td>PU</td>
<td>PTO Relay Low-Side Control Output</td>
</tr>
<tr>
<td>J</td>
<td>6381</td>
<td>BN</td>
<td>PTO Relay High-Side Control Output</td>
</tr>
<tr>
<td>K</td>
<td>2640</td>
<td>RD/WH</td>
<td>Battery (10 Amp Fused) Output</td>
</tr>
<tr>
<td>L</td>
<td>6089</td>
<td>D-BU/WH</td>
<td>PTO Remote Set A Input</td>
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<tr>
<td>M</td>
<td>976</td>
<td>GY/BK</td>
<td>Ground Reference</td>
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<tr>
<td>N</td>
<td>977</td>
<td>L-BU</td>
<td>PTO Remote Accelerator Input</td>
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<tr>
<td>P</td>
<td>979</td>
<td>D-BU</td>
<td>Remote Start Arming</td>
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<tr>
<td>R</td>
<td>239</td>
<td>PK</td>
<td>Ignition (Switched Run/Crank)</td>
</tr>
<tr>
<td>S</td>
<td>981</td>
<td>TN</td>
<td>PTO Remote Indicator Lamp/Remote Tachometer (MY2009 Vehicles only)</td>
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* Vehicle harness Circuit Number and Wire Color

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OEM: 15326863
Service: 1530638
Description: 16-Way F GT 150 Sealed (BK)

<table>
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<th>Type</th>
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<tr>
<td>15358785</td>
<td>Lock</td>
<td>Purple Secondary Lock</td>
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<tr>
<td>15366060</td>
<td>Seal</td>
<td>Blue Individual Loose Cable Seal</td>
</tr>
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<td>15305171</td>
<td>Seal</td>
<td>Green Cable Cavity Cavity Plug</td>
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<tr>
<td>15366021</td>
<td>Seal</td>
<td>White Individual Loose Cable Seal</td>
</tr>
<tr>
<td>15326268</td>
<td>Terminal</td>
<td>Male GT 150 Tin Plated Terminal, Cable Range 0.50 - 0.35 mm², Cable Insulation Range 1.85 - 1.20 mm</td>
</tr>
<tr>
<td>15326269</td>
<td>Terminal</td>
<td>Male GT 150 Tin Plated Terminal, Cable Range 1.00 - 0.75 mm², Cable Insulation Range 2.25 - 1.70 mm</td>
</tr>
</tbody>
</table>

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Electrical Manual – 2008 Light Duty Full Size C/K Trucks
X124 — PTO Connector Location

(1) X300
(2) G300
(3) Automatic Transmission Turbine Speed Sensor
(4) Automatic Transmission Input Shaft Speed (AT ISS) Sensor
(5) Automatic Transmission
(6) Vehicle Speed Sensor (VSS)
(7) X124
(8) Power Take Off (PTO) Module
(9) X175
### Rear Lighting – Utility – C411 Chassis Harness to Left Rear Lamp Harness (Except E52/Z75)

**Connector:** 4-Way F GT 150 Series, Sealed (BK)  
**O.E.M.:** 15326815  
**Color:** BLK  
**Service:** 15306396

<table>
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<th>Function</th>
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<tr>
<td>A</td>
<td>YE</td>
<td>——</td>
<td>Left Rear Stop/Turn Lamp Supply Voltage</td>
</tr>
<tr>
<td>B</td>
<td>BK</td>
<td>——</td>
<td>Ground</td>
</tr>
<tr>
<td>C</td>
<td>BN</td>
<td>——</td>
<td>Left Rear Park Lamps Supply Voltage</td>
</tr>
<tr>
<td>D</td>
<td>L-GN</td>
<td>——</td>
<td>Backup Lamp Supply Voltage</td>
</tr>
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**Connector:** 4-Way M GT 150 Series, Sealed (BK)  
**O.E.M.:** 15326820  
**Color:** BLK  
**Service:** 15326820

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<th>Wire Color</th>
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<th>Function</th>
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<tbody>
<tr>
<td>A</td>
<td>YE</td>
<td>18</td>
<td>Left Rear Stop/Turn Lamp Supply Voltage</td>
</tr>
<tr>
<td>B</td>
<td>BK</td>
<td>1750</td>
<td>Ground</td>
</tr>
<tr>
<td>C</td>
<td>BN</td>
<td>2509</td>
<td>Left Rear Park Lamps Supply Voltage</td>
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<tr>
<td>D</td>
<td>L-GN</td>
<td>24</td>
<td>Backup Lamp Supply Voltage</td>
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Rear Lighting – Utility – C411 Chassis Harness to Left Rear Lamp Harness (E52 Except Z75)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>YE/BK</td>
<td>——</td>
<td>Left Rear Turn Signal Lamp Supply Voltage</td>
</tr>
<tr>
<td>B</td>
<td>L-BU</td>
<td>——</td>
<td>Stop Lamp Supply Voltage</td>
</tr>
<tr>
<td>C</td>
<td>BK</td>
<td>——</td>
<td>Ground</td>
</tr>
<tr>
<td>D</td>
<td>BN</td>
<td>——</td>
<td>Left Rear Park Lamps Supply Voltage</td>
</tr>
<tr>
<td>E</td>
<td>L-GN</td>
<td>——</td>
<td>Backup Lamp Supply Voltage</td>
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Connector: 5-Way F GT 150 Series, Sealed (BK)
O.E.M.: 15326822
Color: BLK
Service: 88987186

Connector: 5-Way M GT 150 Series, Sealed (BK)
O.E.M.: 15326827
Color: BLK
Service: 89046648
Rear Lighting – Utility – C411 Chassis Harness to Left Rear Lamp Harness (Z75)

Connector: 6-Way F GT 150 Series, Sealed (BK)
O.E.M.: 15326829
Color: BLK
Service: 88953153

<table>
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<th>Circuit No.</th>
<th>Function</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>YE/BK</td>
<td>—</td>
<td>Left Rear Turn Signal Lamp Supply Voltage</td>
</tr>
<tr>
<td>B</td>
<td>YE</td>
<td>—</td>
<td>Left Rear Stop/Turn Lamp Supply Voltage</td>
</tr>
<tr>
<td></td>
<td>L-BU</td>
<td>—</td>
<td>Stop Lamp Supply Voltage</td>
</tr>
<tr>
<td>C</td>
<td>BK</td>
<td>—</td>
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<tr>
<td>E</td>
<td>L-GN</td>
<td>—</td>
<td>Backup Lamp Supply Voltage</td>
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<td>OG</td>
<td>—</td>
<td>Rear Fog Lamp Supply Voltage</td>
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<td>F</td>
<td>YE</td>
<td>—</td>
<td>Left Tail Lamp Outage Detection Signal</td>
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Connector: 6-Way M GT 150 Series, Sealed (BK)
O.E.M.: 15326833
Color: BLK
Service: 15326833

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### Rear Lighting – Utility – C412 Chassis Harness to Right Rear Lamp Harness (Except E52/Z75)

**Connector:** 4-Way F GT 150 Series, Sealed (BK)  
**O.E.M.:** 15326815  
**Color:** BLK  
**Service:** 15306396

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**Connector:** 4-Way M GT 150 Series, Sealed (BK)  
**O.E.M.:** 15326820  
**Color:** BLK  
**Service:** 15326820

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### Rear Lighting – Utility – C412 Chassis Harness to Right Rear Lamp Harness (E52 Except Z75)

**Connector:** 5-Way F GT 150 Series, Sealed (BK)  
**O.E.M.:** 15326822  
**Color:** BLK  
**Service:** 88987186

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<tr>
<td>C</td>
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<td>L-GN</td>
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**Connector:** 5-Way M GT 150 Series, Sealed (BK)  
**O.E.M.:** 15326827  
**Color:** BLK  
**Service:** 89046648

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<td>Backup Lamp Supply Voltage</td>
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### Rear Lighting – Utility – C412 Chassis Harness to Right Rear Lamp Harness (Z75)

**Connector:** 6-Way F GT 150 Series, Sealed (BK)  
**O.E.M.:** 15326829  
**Color:** BLK  
**Service:** 88953153

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<td>C</td>
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<td>L-GN</td>
<td>— —</td>
<td>Backup Lamp Supply Voltage</td>
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<td>Right Tail Lamp Outage Detection Signal</td>
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**Connector:** 6-Way M GT 150 Series, Sealed (BK)  
**O.E.M.:** 15326833  
**Color:** BLK  
**Service:** 15326833

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Rear Lighting – Utility – C411 and C412 Location – Short Wheel Base

(1) C115
(2) Fuse Block – Underhood C3
(3) Stud #1 Terminal
(4) S300
(5) C300
(6) S331
(7) C412
(8) Trailer Connector
(9) C411
(10) G400
(11) G401
(12) C400
(13) G305
(14) S301 (Z55 and Z95)
(15) G300
Rear Lighting – Utility – C411 and C412 Location – Long Wheel Base

(1) C115
(2) Fuse Block – Underhood C3
(3) C412
(4) Trailer Connector
(5) C411
(6) G400
(7) G401
(8) C400 (Z55)
(9) S331
(10) S301 (Z55 and Z95)
(11) C300
(12) S300
(13) G300
Rear Lighting – Utility – Rear of the Vehicle (X88 w/E52)

(1) License Lamp – Left
(2) Center High Mounted Stop Lamp (CHMSL)
(3) Defogger Grid
(4) License Lamp – Right
(5) Tail/Stop Lamp – Right
(6) Backup Lamp – Right
(7) Tail/Turn Signal Lamp – Right
(8) Object Sensor – RR Corner
(9) Object Sensor – RR Middle
(10) Rearview Camera (UVC) (E52)
(11) Object Sensor – LR Middle
(12) Object Sensor – LR Corner
(13) Tail/Turn Signal Lamp – Left
(14) Backup Lamp – Left
(15) Tail/Stop Lamp – Left
Rear Lighting – Utility – Rear of the Vehicle (X88 Except E52)

(1) Rearview Camera (UVC)
(2) Tail/Stop Lamp – Right
(3) Backup Lamp – Right
(4) Tail/Turn Signal Lamp – Right
(5) Marker Lamp – RR

(6) Object Sensor – RR Corner
(7) License Lamp – Right
(8) Object Sensor – RR Middle
(9) Object Sensor – LR Middle
(10) Marker Lamp – LR

(11) Tail/Turn Signal Lamp – Left
(12) Backup Lamp – Left
(13) Tail/Stop Lamp Left
(14) Object Sensor – LR Corner
(15) License Lamp – Left
### Rear Lighting — Pickup & Chassis Cab

#### Junction Block C-1 – Rear Chassis Harness Connector

**Connector**: 8-Way F Global Tech 280 Series (BLU)

**Typical Connector Color**: BLU

**Typical Terminal**: 15304716

**Typical Cable Seal**: 15366061

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<td>C</td>
<td>LT GRN</td>
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<td>Backup Lamp Supply Voltage</td>
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<tr>
<td>D</td>
<td>BRN/WHT</td>
<td>2609</td>
<td>Right Rear Park Lamps Supply Voltage</td>
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<tr>
<td>E</td>
<td>BLK</td>
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<td>Ground</td>
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<tr>
<td>F</td>
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<td>G</td>
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<td>2509</td>
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<td>H</td>
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# Rear Lighting – Pickup & Chassis Cab

## Junction Block C-2 – Left Tail Lamp Connector

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<td>E</td>
<td>BRN</td>
<td>2509</td>
<td>Left Rear Park Lamps Supply Voltage</td>
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<tr>
<td>F</td>
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<td>24</td>
<td>Backup Lamp Supply Voltage</td>
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<tr>
<td>H</td>
<td>YEL</td>
<td>18</td>
<td>Left Stop/Turn Signal Lamps Supply Voltage</td>
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Connector: 7-Way F Global Tech 280 Series (GRY)
Typical Connector: 15305596 (F)
Color: GRY
Typical Terminal: 15304716
Typical Cable Seal: 15366061

---

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Rear Lighting – Pickup & Chassis Cab

Junction Block C-3 – License Plate Connector

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<td>Color</td>
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<td>Typical Terminal</td>
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<td>Typical Cable Seal</td>
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## Rear Lighting – Pickup & Chassis Cab
### Junction Block C-4 – Right Tail Lamp Connector

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- Connector: 7-Way F Global Tech 280 Series (BLK)
- Typical Connector: 15305597 (F)
- Color: BLK
- Typical Terminal: 15304716
- Typical Cable Seal: 15366061
Rear Lighting – Pickup & Chassis Cab – Junction Block Location

(1) Frame
(2) Junction Block—Rear Lamps
(3) Junction Block Mounting Bracket
Rear Lighting – Pickup & Chassis-Cab – Rear of the Vehicle – Tail Lamp (X88)

(1) Tail/Stop and Turn Signal Lamp - Upper Left
(2) Tail/Stop and Turn Signal Lamp - Upper Right
(3) Backup Lamp - Right Rear
(4) Tail/Stop and Turn Signal Lamp - Lower Right
(5) Object Sensor - Right Rear Corner (UD7)
(6) License Lamp - Right
(7) Object Sensor - Right Rear Middle (UD7)
(8) Object Sensor - Left Rear Middle (UD7)
(9) License Lamp - Left
(10) Object Sensor - Left Rear Corner (UD7)
(11) Tail/Stop and Turn Signal Lamp - Lower Left
(12) Backup Lamp - Left Rear
Rear Lighting – Pickup & Chassis-Cab – Rear of the Vehicle – Tail Lamp (Z88)

1. Tail/Stop and Turn Signal Lamp - Upper Left
2. Tail/Stop and Turn Signal Lamp - Upper Right
3. Tail/Stop and Turn Signal Lamp - Lower Right
4. Marker Lamp - Right Rear
5. Backup Lamp - Right Rear
6. Object Sensor - Right Rear Corner (UD7)
7. License Lamp - Right
8. Object Sensor - Right Rear Middle (UD7)
9. Object Sensor - Left Rear Middle (UD7)
10. License Lamp - Left
11. Object Sensor - Left Rear Corner (UD7)
12. Backup Lamp - Left Rear
13. Marker Lamp - Left Rear
14. Tail/Stop and Turn Signal Lamp - Lower Left
**Trailer Connector**

Connector: 7-Way F Metri-Pack 280 630 Series, Sealed
OEM: 15354653
Color: BLK
Service: 15306164

### Pins: B
- Terminal/Tray: 12052456/3
- Core/Insulation Crimp: TBD
- Release Tool/Test Probe: TBD

### Pins: A, D, F, G
- Terminal/Tray: 12110847/4
- Core/Insulation Crimp: C/5
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

### Pins: C, E
- Terminal/Tray: 12110845/4
- Core/Insulation Crimp: F/5
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

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<td>Trailer Auxiliary Supply Voltage</td>
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(1) Rear Bumper
(2) Junction Block - Rear Lamps
(3) Terminator Resistor
(4) Trailer Connector (UY7)
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<td>- Power Liftgate</td>
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<tr>
<td>- OAT / Compass / Electrochromic</td>
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<td>- Power O/S Rear View Mirrors w/Mods</td>
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<td>- Sunroof - Crew Cab</td>
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<td>- Sunroof - Ext Cab</td>
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<td><strong>• Displays</strong></td>
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<td>- Chime (SEO)</td>
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<tr>
<td>- DIC &amp; IPC - Chevy/GMC</td>
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<td>- DIC &amp; IPC - Cadillac</td>
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<td><strong>• Engine Controls</strong></td>
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<td>- Automatic</td>
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<td>- Defog with Door Modules</td>
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<td>- Power Passenger Seat</td>
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<td>- Power Fold &amp; Tumble 2nd Row Seats</td>
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<td>- Heated Steering Wheel</td>
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<td>- Damping-Automatic (10 Series)</td>
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<td>- Leveling 2 Corner (10 Series)</td>
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<td>- Trans Shift Interface</td>
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<td>- 4L60E/4L65E</td>
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<td>- 2 Door Modules</td>
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<td>- Remote Function Actuator - Tire</td>
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<td>- Pressure Monitor</td>
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<td>- Theft (Drive Away)</td>
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<td>- SPO Theft</td>
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<td>- Universal Garage Door Opener</td>
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<td>- Express Down, No Door Modules</td>
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<td>- Express Down, 2 Door Modules</td>
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<td>- Aux Rear</td>
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<td>- Switchbank-IP</td>
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</tbody>
</table>

\*Note: All "POA" & "PT" Harnesses shown are for Reference Only. Please see appropriate Component Drawings for Details*
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Preface: Support Information
Acronyms

2WD = Two Wheel Drive
4WD = Four Wheel Drive
A/D = Analog to Digital
AIR = Air Injection Reaction
ACCY = Accessory
AMP = Amplifier or "Current"
ANLG = Analog
A/V = Audio/Video
ABS = Antilock Brake System
AOS = Auxiliary Occupant Sensing
ASM = Assembly
AUX = Auxiliary
AWD = All Wheel Drive
BASS = Brake Apply Sensing System
BATT = Battery
BCM = Body Control Module
BEC = Bussed Electrical Center
BOT = Bottom Of Travel
CHMSL = Center High Mounted Stop Lamp
CTSY = Courtesy
DDM = Driver Door Module
DIC = Driver Information Center
DLC = Diagnostic Link Connector
DLIS = Discrete Logic Ignition Switch
DOD = Displacement On Demand
DR = Door
DRL = Daytime Running Lamps
DVC = Dual Voice Coil
DVD = Digital Versatile Disc
E85 = Ethanol 85%
EAP = Electric Adjustable Pedals
ECC = Electronic Climate Control
ECM = Engine Control Module
EGR = Exhaust Gas Recirculation
EHPS = Electro-Hydraulic Power Steering
EK = Easy Key
EOSS = Engine Output Speed Sensor
ESD = Electro Static Discharge
ETC = Electronic Throttle Control
EV = Electro-Viscous
EXP = Export
EXT = External or Exterior
FREQ = Frequency
FRT = Front
FTP = Flash To Pass
GMHS = GM High Speed LAN
GMLS = GM Low Speed LAN
GND = Ground
GPM = Glow Plug Module
GPS = Global Positioning System
HCM = Hybrid Control Module

ARE16300
003
GMT900

GM Proprietary

Thursday, June 29, 2006
3:01:45 pm

IEC/ESI

2

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

Acronyms (continued)

HDI = High Discrete Input
HDLP = Headlamp
HID = High Intensity Discharge
HSD = High Side Drive
HVSM = Heated/Vented Seat Module
HVAC = Heat Vent Air Condition
IAH = Intake Air Heater
IAT = Intake Air Temperature
INC DIM = Incandescent Dimming
IND DIM = Indicator Dimming
IPC = Instrument Panel Cluster
IR = Infrared
ISRVM = Inside Rear View Mirror
LBEC = Left BEC
LDI = Low Discrete Input
LF = Left Front
LED = Light Emitting Diode
LED DIM = LED Dimming
LGM = Liftgate Module
LH = Left Hand
LIN = Linear Interconnect Network
LOMA = Lifter Oil Manifold Assembly
LPM = Linear Power Module
LR = Left Rear
LSD = Low Side Drive
MAF = Mass Air Flow
MAP = Manifold Absolute Pressure
MAT = Manifold Air Temperature
MBEC = Mid BEC
MDD = Medium Duty Dual Side Clutch
MDL = Module
MOV = Metal Oxide Varistor
MR = Magneto-Rheological
MSM = Memory Seat Module
MTR = Motor
NC = Normally Closed
NO = Normally Open
OSRVM = Outside Rear View Mirror
PAS or PASS = Passenger
PCP = Pre-Charge Pump
PDM = Passenger Door Module
PD = Pull Down
POA = Part Of Assembly
PPM = Pulse Per Minute
PPS = Pedal Position Sensor
PRNDL = Park Reverse Neutral Drive Low
PSIR = Passenger SIR
PTC = Positive Temperature Coefficient
PTO = Power Take Off
PTR = Powertrain Relay
PU = Pull Up

Preface: Support Information
1_08_0_info Panel

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Acronyms (continued)

PWM = Pulse Width Modulation
PWR = Power
R/C = Run/Crank
RAP = Retained Accessory Power
RF = Right Front
RFA = Remote Function Actuator
RH = Right Hand
RHBLK = Right Hand Block (Bussing)
RPO = Regular Product Option
RR = Right Rear
RRBLK = Rear Block (Bussing)
RSA = Rear Seat Audio
RSE = Rear Seat Entertainment
RTD = Real Time Damping
RVC = Regulated Voltage Control
RWS = Rear Wheel Steer
SBAT = Switched Battery
SDARS = Satellite Digital Audio Radio Services
SDM = Sensing & Diagnostic Module
SENS = Sensor or Sensing
SEO = Special Equipment Option
SIR = Supplemental Inflatable Restraint
SNRF = Sunroof
SRC = Source
STRG = Steering
SW = Switch
SWC = Steering Wheel Controls
TCM = Transmission Control Module
TED = Thermal Electrical Device (Platinum Cupholders)
TISS = Transmission Input Speed Sensor
TOSS = Transmission Output Speed Sensor
TOT = Top Of Travel
TPS = Throttle Position Sensor
TRLR = Trailer
TURSS = Turbine Speed Sensor
TUTD = Tap Up Tap Down
UBEC = Underhood BEC
UGDO = Universal Garage Door Opener
UPA = Ultrasonic Park Assist
VAR = Variable
VASS = Vehicle Access & Starting Security
VHSS = Variable Height Suspension System
VNC = Vehicle Noise Control
VSES = Vehicle Stability Enhancement System
WFHS = Washer Fluid Heating System
WIF = Water In Fuel
WUA = Wake Up Analog
WUD = Wake Up Dual Edge
WUF = Wake Up Falling Edge
WUR = Wake Up Rising Edge
XCVR = Transciever

System Status:

2008
GMT900
X

Object Status:

1_08_0_info_01


**Preface: Support Information**

### Miscellaneous Information
- C = 2WD
- K = 4WD
- 03 = Regular Cab Pickup
- 43 = Crew Cab Pickup
- 53 = Extended Cab Pickup
- 06 = Utility (Both 706 & 906)
- 706 = Regular Utility
- 906 = Large Utility
- 36 = Ultimate Utility Vehicle (UUV)
- 10 = Series (Pickup/Utility/UUV)
- 20 = Series (Pickup/Utility/UUV)
- 30 = Series (Pickup)
- 31 = Series (Cab Chassis)

### 900 Numbers
- 901 - Light Duty Pickups - Chevy Silverado
- 902 - Light Duty Pickups - GMC Sierra, (GMC Sierra Denali?)
- 911 - Heavy Duty Pickups - Chevy Silverado
- 912 - Heavy Duty Pickups - GMC Sierra, (GMC Sierra Denali?)
- 921 - Utility - Chevrolet Tahoe
- 922 - Utility - GMC Yukon, (GMC Yukon Denali?)
- 926 - Utility - Cadillac Escalade
- 931 - Large Utility - Chevrolet Suburban
- 932 - Large Utility - GMC Yukon XL, (GMC Yukon Denali XL?)
- 936 - Large Utility - Cadillac Escalade ESV
- 941 - Sport Utility Truck - Chevrolet Avalanche
- 946 - Sport Utility Truck - Cadillac Escalade EXT

### Vehicles by RPO
- 03/43/53 = Chevrolet Silverado / GMC Sierra / GMC Sierra Denali
- 03/43/53&X88 = Chevrolet Silverado
- 03/43/53&Z88 = GMC Sierra / GMC Sierra Denali (43 Only)
- 06 = Cadillac Escalade / Cadillac Escalade ESV / Chevrolet Tahoe / Chevrolet Suburban /
  GMC Yukon / GMC Yukon Denali / GMC Yukon XL / GMC Yukon Denali XL
- 06&X88 = Chevrolet Tahoe / Chevrolet Suburban
- 06&Z75 = Cadillac Escalade / Cadillac Escalade ESV
- 06&Z88 = GMC Yukon / GMC Yukon Denali / GMC Yukon XL / GMC Yukon Denali XL
- 06&Z88&Y91 = GMC Yukon Denali / GMC Yukon Denali XL
- 06&Z88&Y91&Z75 = Cadillac Escalade / Cadillac Escalade ESV
- 06&Z88&Y91&Z75&X88 = GMC Yukon Denali / GMC Yukon Denali XL
- 06&Z88&Y91&Z88 = GMC Yukon Denali XL
- 06&Z88&Y91&Z88&Y91 = GMC Sierra Denali
- 06&Z88&Y91&Z88&Y91 = GMC Sierra Denali
- 706 = Cadillac Escalade / Chevrolet Tahoe / GMC Yukon / GMC Yukon Denali
- 706&X88 = Chevrolet Tahoe
- 706&Y91 = Cadillac Escalade / GMC Yukon Denali
- 706&Z75 = Cadillac Escalade
- 706&Z88 = GMC Yukon / GMC Yukon Denali
- 906 = Cadillac Escalade ESV / Chevrolet Suburban / GMC Yukon XL / GMC Yukon Denali XL
- 906&X88 = Chevrolet Suburban
- 906&Y91 = Cadillac Escalade ESV / GMC Yukon Denali XL
- 906&Y91&Z88 = GMC Yukon Denali XL
- 906&Y91&Z75 = Cadillac Escalade ESV
- 906&Y91&Z88&Y91 = GMC Yukon XL / GMC Yukon Denali XL

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Electrical Manual – 2008 Light Duty Full Size C/K Trucks
## RPOs

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<thead>
<tr>
<th>RPO Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>03</td>
<td>Regular Cab Pickup</td>
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<tr>
<td>06</td>
<td>Utility (Applicable to both 706 &amp; 906)</td>
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<tr>
<td>36</td>
<td>Ultimate Utility Vehicle (UUV)</td>
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<tr>
<td>43</td>
<td>Crew Cab Pickup</td>
</tr>
<tr>
<td>53</td>
<td>Extended Cab Pickup</td>
</tr>
<tr>
<td>706</td>
<td>Regular Utility</td>
</tr>
<tr>
<td>906</td>
<td>Large Utility</td>
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<tr>
<td>5W4</td>
<td>Special Service Package (4WD Police Package)</td>
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<td>6J1</td>
<td>Power Supply, 100Amp at Dash and Rear Compartment</td>
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<tr>
<td>6J3</td>
<td>Wiring Provisions, Grill Lamp &amp; Speakers</td>
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<tr>
<td>6J4</td>
<td>Wiring Provision, Horn/Siren</td>
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<tr>
<td>6J7</td>
<td>Wiring Provision, Head Lamp &amp; Tail Lamp Flasher</td>
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<tr>
<td>7X5</td>
<td>Spot Lamp, LH</td>
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<tr>
<td>7X7</td>
<td>Spot Lamp, LH &amp; RH</td>
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<td>7Z1</td>
<td>Horn - Dual High Note (SEO)</td>
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<td>6A6</td>
<td>Dual Battery, 600 CCA &amp; 770 CCA (SEO)</td>
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<td>8S3</td>
<td>Alarm B/U Electrical 97 Decibels (SEO)</td>
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<td>8S8</td>
<td>Wiring Provisions Odometer Security (SEO) (Unused?)</td>
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<td>8X5</td>
<td>Generator 105 Amp, Dual (SEO) (w/o VF2)</td>
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<td>906</td>
<td>Large Utility</td>
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<td>9GB</td>
<td>DRL Delete</td>
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<td>9L4</td>
<td>Wiring Provisions 12V Power Supply</td>
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<td>A31</td>
<td>Window, Electric Operated, RR Side Access Drs</td>
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<td>A48</td>
<td>Window RR Full Width, Sliding, Power</td>
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<td>ABV</td>
<td>Window Power Operated, RR Side Access Drs</td>
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<td>AG1</td>
<td>Driver Power Seat</td>
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<td>AG2</td>
<td>Passenger Power Seat</td>
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<td>AL0</td>
<td>Auxiliary Occupant Sensing (AOS)</td>
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<td>AN3</td>
<td>Memory Driver Seat</td>
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<td>AP3</td>
<td>Lock Control, Entry Remote, Keyless Entry, Start</td>
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<td>AP9</td>
<td>Lock Control, Entry Remote, Extended Range (Remote Start Ready)</td>
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<td>ARS</td>
<td>Power Fold &amp; Tumble 2nd Row Seats</td>
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<td>AS3</td>
<td>(with ASF) Third Row Roof Rail Airbags</td>
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<td>ASF</td>
<td>Restraint Roof Side, LH &amp; RH, Inflatable</td>
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<td>AUS</td>
<td>Lock Control Remote Entry</td>
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<td>AZ3</td>
<td>Seat Frt Split, Driver, Pass, Full Feature Center</td>
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<td>BRS</td>
<td>Retractable Runningboard</td>
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<td>C25</td>
<td>Wiper/Washer System, Rear Window</td>
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<td>C36</td>
<td>Heater Auxiliary</td>
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<td>C42</td>
<td>Manual Heater Only</td>
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<td>C49</td>
<td>Rear Window Defog</td>
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<td>C67</td>
<td>HVAC System Air Conditioning FRT Electronic Controls</td>
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<td>C69</td>
<td>HVAC System RR Air Conditioner</td>
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<td>C99</td>
<td>Switch Infr Rst VP Mdl Man Suppression</td>
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## RPOs (continued)

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<td>Switch Infr Rst VP Mdl Man Suppression</td>
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<td>C94</td>
<td>Cruise Control, Electric</td>
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<tr>
<td>K56</td>
<td>Generators 105 Amp, Dual,</td>
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<td>KA6</td>
<td>Heater Seat, Rear</td>
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<tr>
<td>KA9</td>
<td>Heater Steering Wheel</td>
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<tr>
<td>KBC</td>
<td>Heater Seat, Cooling, Frt</td>
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<td>L76</td>
<td>6.0L V8 Gasoline Engine (Aluminum - DOD)</td>
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<td>L92</td>
<td>6.0L V8 Gasoline Engine (Aluminum - DOD)</td>
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<td>L95</td>
<td>5.3L V8 E85 Engine (Aluminum - DOD)</td>
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<td>LCF</td>
<td>5.3L V8 Gasoline Engine (Aluminum - DOD)</td>
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<td>LMG</td>
<td>5.3L V8 Gasoline Engine (Iron - DOD) E85</td>
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<td>Engine Diesel 8 cyl, 6.5L, DPI, V8, Duramax</td>
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<td>4.3L V6 Gasoline Engine (Iron)</td>
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<td>4.8L V8 Gasoline Engine (Iron)</td>
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<td>5.3L V8 Gasoline Engine (Iron - DOD)</td>
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<td>6.0L V8 Gasoline Engine (Iron)</td>
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<td>M30</td>
<td>Transmission Auto 4 Speed, HMD, 4L60E, Electronic</td>
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<td>M70</td>
<td>Transmission Auto 4 Spd, HMD, 4L70-E, Super Duty</td>
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<tr>
<td>M96</td>
<td>Transmission Manual 5 Speed, Tremec, 190 mm</td>
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</table>
Preface: Support Information

• RPOs (continued)
  - MW7 = Transmission Auto 5 Speed, Allison LCT, O/D, Conv Clutch
  - MYC = Transmission Auto 6 Speed, HMD, 6L80
  - MYD = Transmission Auto 6 Speed, HMD, 6L90
  - NP8 = Transfer Case Active, 2 Speed, Push Button Cont.
  - (-NQ2) = Dual Fuel Tanks (NQ2 = 18 Gal Fuel Tank Delete)
  - NQF = Transfer Case Electric Shift Cont, Two Speed, Alum
  - NGQ = Transfer Case Manual Shift Cont, Two Speed, Alum
  - NHG = Transfer Case Active, Two Speed, Push Button Control, Alum
  - PPV = Police Package (2WD)
  - (PPV contains 6J1, 6J3, 6J4, 6J7, 7X6, 7X7, 9G8, JL0, TRW, WX7, & optionally 6A6)
  - PTO = Provisions Power Take Off Controls
  - R05 = Dual Rear Wheels
  - SERIES10 = 10 Series (Pickup/Utility/UUV)
  - SERIES20 = 20 Series (Pickup/Utility/UUV)
  - SERIES30 = 30 Series (Pickup)
  - SERIES31 = 31 Series (Cab Chassis)
  - SPLSVRLS = Low Speed GMLAN Splice Saver
  - T61 = Daytime Running Lamps
  - T79 = Lamp Fog, Rr
  - T96 = Lamp Fog, Ft
  - TP2 = Auxiliary Battery
  - TG5 = Control Intelligent High Beam
  - TR2 = Lamp Side Repeater (Export)
  - TRW = Provisions - Roof Mount Emergency Lamp
  - TZO = Transmission Manual 5 Speed, Tremec, 85 mm
  - U01 = Lamp Five, Roof Marker, Truck
  - U2K = Digital Audio System S-Band (SDARS)
  - U3R = Radio AM/FM Stereo, WX, Seek/Scan, CD, DVD, Nav, Clock, DSP, RDS, w/Voice Rec Micro (Cadillac)
  - U3U = Radio AM/FM Stereo, Seek/Scan, DVD, CD, Clock ETR, Navigation, Voice Rec, MP3 (Chevy/GMC)
  - U42 = Entertainment System Rear Seat (DVD)
  - U44 = Antenna Body Side Window, Radio
  - U66 = Theft Deterrent System (Export)
  - UD7 = Sensor Indicator Rear Parking Assist (Ultrasonic)
  - UE1 = OnStar Remote
  - UG1 = Opener Garage Door, Universal
  - UJ6 = Indicator Low Tire Press
  - UK3 = Electronic System Steering Wheel Accessory Controls
  - UK6 = Radio Control Rear Seat & Earphone Jacks (Only Available with UQA/UQS)
  - UL5 = Radio Delete
  - UQ5 = Base Speaker Package
  - UQ6 = Base Speaker Package
  - UQA-Y91 = Premium Non-Luxury Speaker System (6-Channel Bose)
  - UQAA-Y91 = Premium Luxury Speaker System (9-Channel Bose)
  - UQS = Premium Luxury Speaker System (9-Channel Bose with Surround)
  - UVB = Radio AM/FM Stereo, Seek/Scan, Auto Tone, CD, CD-R MP3, DVD, Nav, Clock, ETR, RDS (Chevy/GMC Non-Luxury)
  - UVC = Camera Rear View
  - UV2 = Wiring Provisions Camper & 5th Wheel Trailer
  - UV7 = Wiring Harness Truck Trailer, HD

• RPOs (continued)
  - VYU = Provisions Snow Plow
  - WX7 = Speaker Wiring Provision
  - X88 = Chevrolet
  - XA7 = Washer Nozzles, Heated, Windshield (WFHS)
  - Y91 = Luxury Trim (Includes YE9)
  - YE9 = Uplevel Trim
  - (-YE9) = Base Trim
  - YF2 = Sales Package Ambulance Uplifter (Generators, Lighting)
  - Z49 = Export Canadian Modif Mandatory Base Equipment
  - Z55 = Chassis Package Bi-State Real Time Damping
  - Z75 = Cadillac
  - Z82 = Trailer Provisions Special Equipment, H.D.
  - Z88 = GMC

ARE16300
003
GMM900
GM Proprietary

2008
GMT900
X

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

1_08_0_info_04
AWD/4WD: Active 4WD
AWD/4WD: Active 4WD
AWD/4WD: Electric 4WD
Brakes/Vehicle Speed: ABS
Brakes/Vehicle Speed: ABS-HD
Brakes/Vehicle Speed: ABS-HD

- Sensor-LF Wheel Speed
  
- Sensor-RF Wheel Speed

- Sensor-Brake Pressure

- Engine Controls
  
- Brake Module
Brakes/Vehicle Speed: Integrated Trailer Brake Controller-Series 20/30
Module-Integrated Trailer Brake Controller

Module-Solid State Relay Driver

NOTES

1. CIRCUIT FEEDBACK IS 0.5 IF LESS THAN 300MM, OTHERWISE REQUIRES 1 TO 1 SPLICE INTO 3.0.
Brakes/Vehicle Speed: Vehicle Stability Enhancement System
Brakes/Vehicle Speed: Vehicle Stability Enhancement System – Hybrid

BRAKE MODULE POWER FEEDS WILL NOT CONTAIN ANY SPLICES, TO VENT MODUL

ARE92058 001 GM Proprietary Tuesday, August 8, 2006
08_HPD 1011 300040 104111

1 08_brk_vses_hybrid_01
Brakes/Vehicle Speed: Vehicle Stability Enhancement System – Hybrid

- Sensor-LF Wheel Speed
- Sensor-RF Wheel Speed
- Sensor-LR Wheel Speed
- Sensor-RR Wheel Speed

Module-SCB

Brakes/Veh. Speed: Vehicle Stability Enhancement System

1_08_brk_vses_hybrid_03
Brakes/Vehicle Speed: Vehicle Stability Enhancement System – Hybrid

Displays
Page DIC IPC / DIC IPC Z75 - 1

Switch-Break Fluid Level
900_brake_fluid
UPC FNA 001

Ground Distribution
Grid Zone #18
Page - Grid Dist - 21

Module-SCB
900_hybrid_scb_d
UPC FNA 001

Powertrain Exp.
Bus
PT Exp. Routing
Page - PT Expan-6

Sensor-Inertial
900_hybrid_inert_sensor
UPC FNA 001

Power Moding/Serial Data
Page - Per Mode-17

Power Moding/Serial Data
Page - Per Mode-20

Brakes/Vehicle Speed: Vehicle Stability Enhancement System – Hybrid
Brakes/Vehicle Speed: Vehicle Stability Enhancement System – Hybrid

Sensor-Motor Speed
900_snsr_brk_prs_hyb
UPC: FNA 001

Sensor-Pedal Travel
900_pedal_travel_snsr
UPC: FNA 001

Module-SCB
900_hybrid_brk_scb_e
UPC: FNA 001

Brakes - Hybrid Steering Angle Sensor
- Page - Brakes - 2

Steering Angle Sensor
- Page - Brakes - 2

Vehicle Stability Enhancement System – Hybrid

ARE82058
001
003
GM Proprietary

1,08_brk_vses_hybrid Panel 5 of 5

Electrical Manual – 2008 Light Duty Full Size C/K Trucks
Charging: Base – Diesel

CAN THIS WIRE REDUCE TO A 19.0??

UBEC
LEE PICKED, NEED RT P/N
FNA
02965719
Battery-Primary #1
0010963
BATTERY

ECM
Page - DLl-2

Power Distribution
Batt - Per Dist-1

Ground Distribution
Gnd Zone #5
Page - Gnd Dist-3

Motor-Starter
900_mtr_starter
001

Ring Term-Dsl Starter
02965719 002
02965719

Light-Elect Exterior
Wrecker Aux Bat-63X7
Page - Emer-2

Ring Terminal-Starter
15358800 004
15358800

Ring Term-Megafuse
0010584 001
0010584

FUSE_HOLDER
Page 3

FUSE_HOLDER
Page 2

STX

192

192

192

192

STX

192

STARTER
Page 2

STARTER
Page 2

STARTER
Page 2

STARTER RLY_BATT

S_CASE

B_CASE

STARTER RLY

Gnd Dis

Page 7

Gnd Dist

Page 8

Gnd Zone #4

Ground Distribution
Page - Gnd Dist-7

Gnd Zone #3

Ground Distribution
Page - Gnd Dist-6

Gnd Zone #4

Ground Distribution
Page - Gnd Dist-8

BATTERY

BATTERY

BATTERY

BATTERY

Gnd Dist

Page 7

Gnd Zone #3

Ground Distribution
Page - Gnd Dist-6

Gnd Zone #4

Ground Distribution
Page - Gnd Dist-8

BATTERY

BATTERY

BATTERY

BATTERY

Gnd Dist

Page 7

Gnd Zone #3

Ground Distribution
Page - Gnd Dist-6

Gnd Zone #4

Ground Distribution
Page - Gnd Dist-8

BATTERY

BATTERY

BATTERY

BATTERY
Charging: Base – Gas

D DROP CURRENT SENSOR OR DROP FUEL ECONOMY MODE FOR ALL DUAL/AUX BATTERY APPLICATIONS?

NOTE

+ 1 – VOLTAGE SENSE GND MUST BE A DOUBLE CRIMP AT THE RING TERMINAL

Graphic representation of the charging system for the 2008 Light Duty Full Size C/K Trucks.
Hi-Voltage Controls-Hybrid
Charging: Hybrid
Closures/Mirror: Running Board

Notes:
1. Increased gage size for voltage drop.
Closures/Mirror: Power Liftgate

Lights - Interior
BCM via MBEC
Page - Lgt Int - 3

Switch-Liftgate Open/Close (Front Occupant)
300_sw_lgate_oc 002
UPC: FMA

Ground Distribution
Grid Zone #14
Page - Gnd Dist - 17

Ground Distribution
Grid Zone #10
Page - Gnd Dist - 12

LGM Fuse (UBEC)
Page - Pwr Dist - 3

B

LGM_OC_BKLT

C

Power Distribution
LGM Fuse (UBEC)
Page - Pwr Dist - 3

10A

1301

LG_AJAR_LGM

J3-6

Ground Distribution
Grid Zone #14
Page - Gnd Dist - 17

Wipe/Wash
Motor-Rear Wiper
Page - Rear Wipe - 1

J2-3

LG_BATT

J2-4

LGM/LIG_BATT

NOTE:

1. Parallel grounds may be required to meet OMLAN ground offset requirements.

2. While power feed is 5.0 gage due to signal loss, ground wire can be 3.0 gage as
   it has a much shorter length and is still protected by 30A fuse.
Closures/Mirror: Power Liftgate

HIS CIRCUIT MAY NOT BE PROTECTED AGAINST A SHORT TO GROUND BY THE UPSTREAM MODULE. USE CARE WHEN SELECTING THE WIRE GAGE.
Closures/Mirror: Power O/S Rear View Mirrors w/Mods

NOTE

1. POTENTIOMETERS ONLY NECCESSARY WITH MEMORY.

- POTENTIOMETERS ONLY NECESSARY WITH MEMORY.
Mirrors: Power OSRVM

Lights - Interior
BCM via MNEC
Page - Lgt Int - 3

Power Distribution
Power OS Mirrors MiniFuse
Page - Per Dist - 24

900 SW PWR MIRR
Switch-OSRVM Power
UPC FNA

12064769

OSRVM-Driver
900_osrvm_mir_pwr 001
UPC FNA

OSRVM-Passenger
900_osrvm_mir_pwr 001
UPC FNA

No DZM

ARE75670

DEA070

GM Proprietary

September 29, 2006

Electrical Manual – 2008 Light Duty Full Size C/K Trucks
Closures/Mirrors: Sunroof - Crew Cab

- Lights - Interior
  - BCM via MBEC
- Power Distribution
  - S/ROOF Fuse (UBEC) via RHBLK
- Power Modulating
  - BCM (via RHBLK/MBEC)
- Ground Distribution
  - Grid Zone - F10

Module-Sunroof
900_mdl_sunrf_43 001
UPC: FRA

Switch-Sunroof
900_sw_sunroof 003
UPC: FRA

Ground Distribution
Grid Zone - F10
Page - Grid Dist: 10

NOTES
+1 — EXPRESS BUTTONS ARE SECOND DETENT OF DIRECTION BUTTON.
Displays: Instrument Panel Cluster

1. The IPC requires the Run/Crank signal to act as the backup power mode master.
2. All gage & most other display information is received via GM LAN.
3. The IPC is a "primary" LS GM LAN node, instead of a "unit" LS GM LAN node.
4. Connector assembly P/N 15393401 consists of GM Conn P/N 15393409 and GM Shroud P/N 15394048.

**NOTES**

- **1** - The IPC requires the Run/Crank signal to act as the backup power mode master.
- **2** - All gage & most other display information is received via GM LAN.
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- **4** - Connector assembly P/N 15393401 consists of GM Conn P/N 15393409 and GM Shroud P/N 15394048.
Displays: Analog Clock
Displays: Chime
Engine Controls: Diesel

**NOTE:** CKMCE CHANGED 7 CIRCUITS FROM TXL-7 INTO WXC-19

J2-1,3,5: IS SPLICE NEEDED?

J2-1,3,5: WXC INSULATION?
Engine Controls: Diesel

Sensor-Oil Pressure
900_snsr_oil_prs_dsl

Switch-Oil Level
900_sw_oil_lv_dsl001

Panel Set: 6

Normal Fluid Level
L

Ground on left side of engine

Switch-Oil Level
900_sw_oil_lv_dsl001

Panel Set: 6

Normal Fluid Level
L

Ground on left side of engine

Switch-Oil Level
900_sw_oil_lv_dsl001

Panel Set: 6

Normal Fluid Level
L

Ground on left side of engine
Engine Controls: Diesel
Engine Controls: Diesel

Sensor-Manifold Air Pressure
900_snsr_map_dsl
UPC: PNA 001
12129946

FUEL
Fuel Lvl Sensor1
Page: Fuel-4

FUEL
Fuel Temp Sensor
Page: Fuel-3

FUEL
Fuel Lvl Sensor2
Page: Fuel-4

FUEL Switch-Fuel Pipe Press
Page: Fuel-4

FUEL
Fuel Lvl Sensors
Page: Fuel-4

FUEL
Fuel Temp RT

FUEL PRM DSL

FUEL PRM DSL

FUEL PRM DSL

FUEL PRM DSL

ECM 900_ecm_dsl_fuel
UPC: PNA 001
J1-12596678
J2-12596679

ECM
900_ecm_dsl_fuel
UPC: PNA 001
J1-12596678
J2-12596679

Engine Controls: Diesel

Sensor-IAT & MAF
900_sns_map_lsl_dsl
UPC: PNA 001
15443141

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MAY NEED TO TWIST ALL INJ WIRING. THESE ARE HIGH CURRENT CIRCUITS.

Each Injector about 13 Amps max.

Max of 180 Milliohms loss at 9VOLTS for Injectors

MAY NEED TERMINALS THAT CAN TAKE 1.0 FOR VOLTAGE DROP ISSUES

Fuel Injector #1
UPC FNA 001
1-928-403-874

Fuel Injector #4
UPC FNA 001
1-928-403-874

Fuel Injector #6
UPC FNA 001
1-928-403-874

Fuel Injector #7
UPC FNA 001
1-928-403-874

Engine Controls: Diesel
MAY NEED TO TWIST ALL INJ WIRES. THIS IS HIGH CURRENT CIRCUITS
MAY NEED TERMINALS THAT CAN TAKE 1.0 FOR VOLTAGE DROP ISSUES
EACH INJECTOR ABOUT 13 AMPS MAX

MAX OF 180 MILLION OHMS LOSS AT 9VOLTS FOR INJECTORS

Fuel Inj #2
900_fuel_inj_dsl
UPC FNA 001
1-928-403-874

Panel Set: 13

SA5423

SA5425

Each Panel

Engine Controls: Diesel

Panel Set: 13
Panel 13 of 20

1_08_eng_ctrl_dsl_13
Engine Controls: Diesel

Sensor-DPF Delta Pressure Sensor
900_snr_prs_ex_dsl
UPC FNA 001

Sensor-DPF Exhaust Temp 1-Pre DPF
900_snr_tmp_ex
UPC FNA 001

Sensor-DPF Exhaust Temp 2-Post DPF
900_snr_tmp_ex2
UPC FNA 001

Engine Controls: Dsl
1_08_eng_ctrl_dsl Panel 16 of 20
Panel Set: 16
ALMM
Engine Controls: Diesel

Panel System Status: Object Status: GMHS

Panel Set: 18

Page: 6

> Panel System

> Panel Set: 18

> Panel: 6

> Page: 6

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> Panel Set: 18

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> Page: 6
Engine Controls: Diesel
Engine Controls: Gas – V6

0.8 TXL NOT COMPATIBLE WITH ECM CONNECTOR

POA INJECTOR HARNESS??

MARK DEBACKER IS E37 DRE
Engine Controls: Gas – V6
Engine Controls: Gas – V6

Sensor-Oil Pressure
900_snsr_oil_press

Engine Controls: Gas – V6

Engine Controls: Gas - V6

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1_08_eng_ctrl_v6 Panel 4 of 13
BILL MORGAN TO CHECK: WHICH PIN IS FAN LO VS HI, 5 VS 49.
Engine Controls: Gas – V6

**Diagram of Engine Controls: Gas – V6**

- **Power Dist**: Pn-ECM/THROT CONT (Ubdc)
  - Page - Pwr Dist -13
  - 15A
  - CAN_PURGE_V6_PTR
- **Verify Conn**: Sensor-MAP
  - 900_snsr_map_v6
  - UPC FNA 001
- **Sol-Canister Purge**: 900_scl_can_purse
  - 001
  - UPC FNA
- **Fuel**: Fuel Lvl Sensor
  - Page - Fuel-2
  - 12124037
- **FUEL EVA**: Fuel Vapor Press Sensor
  - Page - Fuel-2
  - 15B
  - CHASSIS
  - 1890
  - DGN
  - 0.35 ENG
  - 0.35 ENG
- **Electrical Manual – 2008 Light Duty Full Size C/K Trucks**

**Panel Set:**
- **Engine Controls: Gas – V6**
- **Fuel Lvl Senso**
- **Fuel**
- **FUEL**
- **Electrical Manual – 2008 Light Duty Full Size C/K Trucks**

**Page:**
- **D-92**
SALLY TO CHECK IF CAM JUMPER REQUIRED??

NOTE: ALL KNOCK SENSOR TERMINALS ARE GOLD PLATED
Engine Controls: Gas – V8

PPS INLINE SETUP FOR PICK-UPS
Engine Controls: Gas – V8
Engine Controls: Gas – V8
NOTE: ALL KNOCK SENSOR TERMINALS ARE GOLD PLATED

* KNOCK SENSOR WIRES UPSIZED FOR DURABILITY
* CRANK SENSOR WIRES ARE 155 DEGREE TUL
EXHAUST VALVE AND ECM PINOUT NOT CONFIRMED.
Engine Controls: Gas – V8
Engine Controls: Gas – Hybrid
Engine Controls: Gas – Hybrid
Engine Controls: Gas – Hybrid

Engine Controls: Gas Engine

EC01 Panel 11 of 17

ECM 900_ecm_hybrid_51
UPC FNA 001
J1-12582680
J2-12582677
J3-12582678

ARE16374
003
GMT903
Crew Proprietary

Wednesday, November 15, 2006

2008 GMT900 IVER
Engine Controls: Gas – Hybrid

NOTE: ALL KNOCK SENSOR TERMINALS ARE GOLD PLATED
Engine Controls: Gas – Hybrid
Engine Controls: Gas – Hybrid

Diagram showing connections and components for Engine Controls, both for Gas and Hybrid engines. The diagram includes labels for various components and connections, such as ECM, HO2S Hi and Lo, and other sensor and control elements. The page number indicates Page 18, consistent with the layout of the document.
### Engine Controls: PTO Controls

#### Power Distribution

- **Gnd Zone #4**
  - 4540: Batt-SEO B1(Ubec)
  - 50: Batt-EXPORT/BRK MDL(Ubec)

#### Power Moding/Serial Data

- **GMHS-H**
  - 2640: PWR MODE/GPS
- **GMHS-L**
  - 2640: 0.8

#### Ground Distribution

- **Ground Zone #4**
  - 4540: Batt-EXPORT/BRK MDL(Ubec)
  - 50: Batt-EXPORT/BRK MDL(Ubec)

#### Notes:

1. Remote set switches may optionally be of a Latching Design
2. Load control switch may not be present in some upfitter configurations
3. Wire upsize to 2.0 for PTO MDL terminal validation
Engine Controls: PTO Controls
Fan Controls: Belt Drive – Variable Speed

Engine Controls
ECM
Page - Dsl-7

Fan Controls: Belt Drive - Variable Speed
Page 1 of 1
Panel Set: 1
ALWM

ARE16280
003
GM Proprietary
Tuesday, September 26, 2006
JEC/ESI

1_08_fan_belt_var
Fan Controls: Electric – Dual

NOTES
1. SERIES 10 ONLY WITH 4.3/4.8L
2. PER PTC, DOES NOT MATTER ON WHICH SIDE FANS ARE LOCATED

© GM Proprietary

Friday, August 11, 2006
2:13:24 pm
Fuel Systems

Motor-Fuel Pump Balance
900_pump_bal 001
12059450

120_pump_bal 001
12052635

Motor-Fuel Pump #1
900_fuel_pump_e85 001
6002KP0098

Engine Controls
ECM
Page - D1117/V8 - 9/7/8

Power Distribution
Batt - Pwr Dist -10

Relay-FUEL PMP
relay_spst 004
UPC FNA
15489831

Minifuse-FUEL PUMP
20 12092077

Ground Distribution
Gnd Zone#5
Page - Gnd Dist -9

NOTE
WIRE MINIMUM SIZE OF 2.0 FOR FSCM TERMINAL VALIDATION

Fuel Systems

1.08 fuel Panel 1 of 6
Fuel Systems

FSCM FOR UTILITIES

Module Fuel System Control
900_FSCM_B
UPC: FMA ARE79735 002
13570967

Fuel Line Pressure Sensor
900_sner_in_pro_fuel
UPC: FMA 003
19115173
Ground Distribution

- Battery-Primary: 900_gnd_battery001
  - Engine (LMM/LU3)
  - Engine (GEN4)
  - Engine (-LU3)
  - Battery-Secondary/Auxiliary: 900_gnd_battery001

- GND ZONE:
  - 1: Clean
  - 2: Dirty
  - 3: Clean
  - 4: Clean
  - 5: Dirty

- Notes:
  1. Approximate locations shown.
  2. "CLASS=H" is an IVED convention & shouldn't be confused as design.
**Ground Distribution**
Ground Distribution

- Refer to Battery Primary Page -1
- Refer to Engine Page -1

NOTES:
1. APPROXIMATE LOCATIONS SHOWN.
2. "CLASS=N" IS AN IED CONVENTION & SHOULDN'T BE CONFUSED AS DESIGN.
**Ground Distribution**

Refer to Ground-Engine Zone 3 Page 7

Ground-Engine Zone 4 900_gnd_zone 001

1. Wire upsized to 0.8, for proper splice validation.
2. Wire upsized to 0.8, for proper splice validation for Diesel.
Ground Distribution

- Power - External Power Outlet - Bin Page - Apo - 1
- Positioning/Comfort Module-Hid/Cool Cupholder Page - Cupholder - ULT - 1
- HVAC Module-HVAC Page - Auto - 1
- Displays Switch-DIC Page - Clock - 1
- HVAC Module-HVAC Page - Main - 1
- HVAC Module-HVAC Page - Main - 1
- Splice-RH

Refer To RHBLK Page - 10

Ground Distribution

1_08_gnd_dist_13
Ground Distribution

- Ring Terminals are welded together.
- LBEC GROUND to be doubled at ring terminal, rather than added to.
- 1855 Splice, due to ground shift considerations.
- 1855 Panel is different due to proliferation/giveaway strategy.
Ground Distribution

Obstacle Detection
Module-Camera ECU
Page- Rev - 1

Hi Volt Ctrl
Page- Bpcm - 1
(Single or Double) - SIR
Page- 24

Refer To
Ring Terminal-Body Zone 27 (Single or Double) - SIR
Page- 24

Ring Terminal-Body Zone 27 (Single)
12103514 004
UPC FNA 12103514

Ring Terminal-Body Zone 27 (Double)
12103514 004
UPC FNA 12103514

Ground-Body Zone 27
200_gnd_zone 001
UPC FNA 12103514

Obstacle Detection
Module-UPA
Page- Rev - 1

Brakes/Veh. Speed
Sensor-Inertial
Page- Vars - 4

Brakes/Veh. Speed
Sensor-Inertial
Page- Vars - 4
Ground Distribution

AWD/WD
Manual Transfer Case
Page - Man - 1

Ground Zone Case
900_gnd_zone_case_001
UPC FNA

AWD/WD
Brakes/Veh. Speed Switch-Park Brake Apply
Page - Base - 1

Ground Zone Case
900_gnd_zone_case_001
UPC FNA

Charging
Generator
Page - Base Gas / Base Dial - 3/3

Ground Zone Case
900_gnd_zone_case_001
UPC FNA

Charging
Generator-Second
Page - Base Dial - 3

Ground Zone Case
900_gnd_zone_case_001
UPC FNA

Engine Controls
Motor-Starters
-Base Gas / Base Dial - 2/2

Ground Zone Case
900_gnd_zone_case_001
UPC FNA

Engine Controls
Glow Plug #4
Page - Dial - 19

Ground Zone Case
900_gnd_zone_case_001
UPC FNA

Engine Controls
Glow Plug #5
Page - Dial - 19

Ground Zone Case
900_gnd_zone_case_001
UPC FNA

Engine Controls
Glow Plug #6
Page - Dial - 19

Ground Zone Case
900_gnd_zone_case_001
UPC FNA

Engine Controls
Glow Plug #7
Page - Dial - 19

Ground Zone Case
900_gnd_zone_case_001
UPC FNA

Engine Controls
Glow Plug #8
Page - Dial - 19

Ground Zone Case
900_gnd_zone_case_001
UPC FNA
Ground Distribution
Horns

- Ground Distribution
  - Gnd Zone #1
  - Gnd Zone #2

- Power Distribution
  - UPEC
  - Minifuse-HDLMP WASH (UBEC)

- Relay-PCB-Horn
  - Relay-Export Horn

- Col-Switch-Horn
  - Col-Clock Spring Coil

- Horn-Bas

- Horn-Dual

- Horn-Export

- Horn-Switch is a spring-loaded plate with spade terminals

- System Status
  - O
The front LPM is sourced to Delphi and the rear LPM is sourced to Behr and Delphi. They are interchangeable POA harnesses.

"BEHR" and "DELPHI" RPOs represents that suppliers system.
HVAC: Automatic

Power Distribution
HVAC-RC (UBEC via RHBLK)
Page - Pwr Dist Page - 19

Motor-HVAC Temp LH
900_mtr_hvac 001
UPC: FNA

Motor-HVAC Temp RH
900_mtr_hvac 001
UPC: FNA

ARE16386
003
0300
GM Proprietary
Monday, October 23, 2006
8:29:44 PM
IECSF

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

HVAC: Climate Control Front
Automatic
HV01 Panel 3 of 9
A/CJ3

2008 GMT900
MVBS
HVAC: Automatic

Engine Controls
ECM
Page - DaV6/V8 - 7/5/6

Power Distribution
Battery Bus (UBEC)
Page - Dist - 11

Relay-A/C COMPRESSOR
relay_spst

AC EN_RLY_CNTL_BATT

AC EN_RLY_CNTL_BATT

Sensor-AC Pressure
900_sens_ac_press001

AC PSI_RTN

Power Distribution
Battery Bus (UBEC)
Page - Dist - 11

Power Distribution
Battery Bus (UBEC)
Page - Dist - 11

HVAC: Climate Control Front
Automatic
HV01 Panel 5 of 9
ACJ2

Ground Distribution
Grid Zone #10
Page - Gnd Dist 10

Module-LPM Front
900_mdl_lpm001
UPC FNA

Module-LPM Front
900_mdl_lpm001
UPC FNA

Motor-Front Blower
900_mtr_blower_frtfd
UPC FNA 002

Motor-Front Blower
900_mtr_blower_frtfd
UPC FNA 002

Ground Distribution
Grid Zone #5
Page - Gnd Dist 9

Engine Controls
ECM
Page - DaV6/V8 - 7/5/6

Engine Controls
ECM
Page - DaV6/V8 - 7/5/6

Engine Controls
ECM
Page - DaV6/V8 - 7/5/6

GM Proprietary

 hacks
HVAC: Automatic

Module-HVAC Auto
900_rsa_hvac_hvr001
UPC: FNA
J4-15491205
J2-15136073
J3-15491354
J4-15493874

NOTE
F - INTEGRATED RSA/HVAC CONTROLS FOR ACJ2

Ground Distribution
Gnd Zone #10
Page - Gnd Dist #12

Sensor-DAT Rear
900_sens_post2 001
UPC: FNA
12045813

Sensor-DAT Lower
900_sens_dat2 001
UPC: FNA
12047662

Module-RSA
900_rsa_hvac_hvr001
UPC: FNA
CLASS=N
TBD

HVAC Climate Control Front
Automatic
HVO1 Panel 6 of 9
ACJ2
• The front and rear blower motors are dual sourced to both
• Behr and Delphi. They are interchangeable POA harnesses.

"BEHR" and "DELPHI" RPOs represents that suppliers system.
Panel

System Status:

RHBL

K

15326900

P281

6F M/P280 HVAC2

D-88

PAGE

Module-HVAC Man
900, mld_hvac2, c3 004
UPC
FMA
J1-15491305
J2-15488973
J3-15491304
J4-15488774

Motor-HVAC Temp LH
900_mtr_hvac 001
UPC
FMA

Motor-HVAC Temp RH
900_mtr_hvac 001
UPC
FMA

Motor-HVAC Temp RH
900_mtr_hvac 001
UPC
FMA

Motor-HVAC Temp RH
900_mtr_hvac 001
UPC
FMA

Motor-HVAC Temp LH
900_mtr_hvac 001
UPC
FMA

NOTE

+1 - IF ERRORS GO GMLAN - WILL NEED OAT SENSOR IN CJ3 (J2-9)
High Voltage Interlock Loop

HIGH VOLTAGE INTERLOCK LOOP

TPIM COVER → TPIM → TRANS COVER ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ ↔ → BPCM

 NOTES

- MODULES ARE SHOWN IN TYPICAL CONNECTIVITY ORDER; IF A GIVEN MODULE IS NOT PRESENT, MODULES ON EITHER SIDE CONNECT DIRECTLY.

High Voltage Interlock Loop

Tuesday, October 3, 2006 8:50:04 am

ARE82063 003
005
GM Proprietary REV/ED 3

1_08_hvil Panel 1 of 2 AHP3
High Voltage Interlock Loop
Infotainment and Telematics: Audio

Power Moding / Serial Data Splice Saver-IP-1
Page: Page Modo-25

IF ONSTAR IS STANDARD FOR 2008 P/U, THEN MANY INFOTAINMENT RPO’S WILL BE REVISED TO SHOW UQ5 SPEAKERS WITH UE1 ONSTAR.

Infotainment and Telematics: Audio

IT01 Panel 1 of 8
Infotainment and Telematics: Audio

**NOTES**
- Audio circuits shall be doubled at a connector, not spliced.
- *3* = Gage size larger for durability.

**Radio**
- 900_radio_int_aud_j2 007
- J1-15488568
- J2-13527876 INFO / 15416970 IP
- J3-15429805
- J6-15429806
- J6-TBD
- J6-TBD

**Infotainment and Telematics: Audio**

Refer To Connector P108 Page - 5

- **TWP**
- **DA2099**
- **TAS99**
- **SA99**
- **N**
- **INFOJMPR**
- **LR_JMPR-**

Refer To Connector P108 Page - 5

- **TWP**
- **DA2099**
- **TAS99**
- **SA99**
- **N**
- **INFOJMPR**
- **LR_JMPR-**

Refer To Connector P108 Page - 5

- **TWP**
- **DA2099**
- **TAS99**
- **SA99**
- **N**
- **INFOJMPR**
- **LR_JMPR-**

Refer To Connector P108 Page - 5

- **TWP**
- **DA2099**
- **TAS99**
- **SA99**
- **N**
- **INFOJMPR**
- **LR_JMPR-**

Refer To Connector P108 Page - 5

- **TWP**
- **DA2099**
- **TAS99**
- **SA99**
- **N**
- **INFOJMPR**
- **LR_JMPR-**
Infotainment and Telematics: Audio

Radio

900_radio_inf_aud 007
UPC FN4
J1-1548656
J2-154166750 IP 13527976 INFO
J3-15429005
J4-1542906
J5-TBD
J6-TBD

Amp-Premium Luxury
900_amp_lux_inf_aud 003
UPC FN4
J1-15134093
J2-15134094
J3-15136073
J4-15136074

NOTES
+ 1 = IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.
+ 2 = COMPOSITE VIDEO INPUT FROM REAR VISION CAMERA SHOWN IN OBSTACLE DETECTION.

Infotainment and Telematics: Audio

J4-3
J4-11
J4-12
J4-4
J4-13

Radio 900_radio_inf_aud 007
UPC FN4
J1-1548656
J2-154166750 IP 13527976 INFO
J3-15429005
J4-1542906
J5-TBD
J6-TBD

Amp-Premium Luxury 900_amp_lux_inf_aud 003
UPC FN4
J1-15134093
J2-15134094
J3-15136073
J4-15136074

NOTES
+ 1 = IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.
+ 2 = COMPOSITE VIDEO INPUT FROM REAR VISION CAMERA SHOWN IN OBSTACLE DETECTION.

Infotainment and Telematics: Audio

J4-3
J4-11
J4-12
J4-4
J4-13

Radio 900_radio_inf_aud 007
UPC FN4
J1-1548656
J2-154166750 IP 13527976 INFO
J3-15429005
J4-1542906
J5-TBD
J6-TBD

Amp-Premium Luxury 900_amp_lux_inf_aud 003
UPC FN4
J1-15134093
J2-15134094
J3-15136073
J4-15136074

NOTES
+ 1 = IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.
+ 2 = COMPOSITE VIDEO INPUT FROM REAR VISION CAMERA SHOWN IN OBSTACLE DETECTION.

Infotainment and Telematics: Audio

J4-3
J4-11
J4-12
J4-4
J4-13

Radio 900_radio_inf_aud 007
UPC FN4
J1-1548656
J2-154166750 IP 13527976 INFO
J3-15429005
J4-1542906
J5-TBD
J6-TBD

Amp-Premium Luxury 900 Amp lux inf aud 003
UPC FN4
J1-15134093
J2-15134094
J3-15136073
J4-15136074

NOTES
+ 1 = IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.
+ 2 = COMPOSITE VIDEO INPUT FROM REAR VISION CAMERA SHOWN IN OBSTACLE DETECTION.

Infotainment and Telematics: Audio

J4-3
J4-11
J4-12
J4-4
J4-13
Infotainment and Telematics: Speakers – Base

- Radio
  - 900 radio_inf_spk_bu 007
  - UPC: FNA
- Speaker-Front Left
  - 900_spk_frt_base 001
  - UPC: FNA
- Speaker-Front Left
  - 900_spk_frt_up 002
  - UPC: FNA

**NOTE**
- *+1 = IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.*

**Radio**
- 900 radio_inf_spk_bu 007
- UPC: FNA
- J1, J2, J3, J4, J5, J6, TBD

**Speaker-Front Left**
- 900_spk_frt_base 001
- UPC: FNA
- 1543387
- 15452832

**Speaker-Front Left**
- 900_spk_frt_up 002
- UPC: FNA
- J1, J2, J3, J4, J5, J6, TBD

- **NOTE**
  - *+1 = IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.*
Infotainment and Telematics: Speakers – Base

Radio
900_radio_inf_spk_bu2 007
UPC FNA
J1-15488588
J2-15416970
J3-15429805
J4-15429806
J5-TBD
J6-TBD

Infotainment and Telematics: Speakers – Base

Tattoo-Front Right
900_spk_tweet_prm 002
UPC FNA

Speaker-Front Right
900_spk_ft_base_001
UPC FNA

Notes
- **If Needed, Audio Circuits Shall Be Doubled at a Connector, Not Spliced.**
Infotainment and Telematics: Speakers – Base

Radio

900_radio_inf_aud_busj 007

0PC: FNA
J1-15488568
J2-13527976 INFO / 15416970 IP
J3-15429805
J4 15429806
J5-TBD
J6-TBD

Infotainment & Telematics Module-RSA
Page: Rsa - 2
Infotainment & Telematics Module-RSA
Page: Rsa - 2

Refer To
22Way IP to BODY(LT) Inline Page - 4

Refer To
30Way IP to BODY(LT) Inline Page - 4

Infotainment and Telematics: Speaker

NOTE

1

0

S

IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.

Electrical Manual – 2008 Light Duty Full Size C/K Trucks
Infotainment and Telematics: Speakers – Base

NOTES

1. IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.

Refer To Radio Page 3

Refer To Radio Page 3

IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.

Infotainment and Telematics: Speakers – Base

Speaker-Rear Left Door 900_spk_rr_base_up001
UPC FNA

12052832

Speaker-Aux Left D-Pillar 900_spk_aux_up 001
UPC FNA

12052832

Infotainment and Telematics: Speakers Base

IT02 Panel 4 of 6

-WK7

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

ARE16402

003

GMM900

GM Proprietary

Thursday, September 21, 2006

12:04:16 AM

- WKB
F R T S P K (-)
Infotainment and Telematics: Speakers – Premium (Luxury)

Amp-Premium Luxury
900_amp_inf_spk_prml2
UPC FNA
J1-15134083
J2-15134091
J3-15136673
J4-15136674

Infotainment and Telematics: Speakers – Premium (Luxury)

900_amp_inf_spk_prml2
UPC FNA
J1-15134083
J2-15134091
J3-15136673
J4-15136674

Speaker-Rear Left Door
900_spk_rr_prm
UPC FNA
900_spk_rr_prm
UPC FNA

Speaker-Rear Right Door
900_spk_rr_prm
UPC FNA
900_spk_rr_prm
UPC FNA
Infotainment and Telematics: Speakers – Police Package

IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.

Radio
900_radio_inf_spk_bu007
UPC FNA
J1-15468568
J2-15416970
J3-15429805
J4-15429806
J5-TBD
J6-TBD

Police Package
900_radio_inf_spk_bu2007
UPC FNA
J1-15468568
J2-15416970
J3-15429805
J4-15429806
J5-TBD
J6-TBD

NOTE: IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.
Infotainment and Telematics: Speakers – Premium (Non-Luxury)

Amp-Premium
900_amp_inf_spk_prm_002
UPC FNA
J1-98947379
J2-15134091
J3-15136073

Infotainment and Telematics: Speakers – Premium

Tweeter-Front Left
300_spk_tweet_prm_002
UPC FNA
12064669

Speaker-Front Left
300_spk_frt_prm_001
UPC FNA
12064669

Tweeter-Front Right
300_spk_tweet_prm_002
UPC FNA
12064669

NOTES
1. IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.
Infotainment and Telematics: Speakers – Premium (Non-Luxury)

NOTE
+T – IF NEEDED, AUDIO CIRCUITS SHALL BE DOUBLED AT A CONNECTOR, NOT SPLICED.
Infotainment and Telematics: Speakers – Premium (Non-Luxury)
Infotainment and Telematics: Voice Communication
Infotainment and Telematics: Satellite Audio Receiver
Infotainment and Telematics: Rear Seat Entertainment

Refer To Display-RSE Page-1

Infotainment & Telematics
Page- Aud- 2

Refer To Inline Page- 1

Module RSE Display: P&G

Display-RSE2
RSE Display: P&G

Infotainment and Telematics: Rear Seat Entertainment
Infotainment and Telematics: Rear Seat Entertainment

Refer to Display-RSE2 Page 4

NOTES

1 = GAGE SIZE LARGER FOR DURABILITY.
Infotainment and Telematics: Rear Seat Entertainment
Infotainment and Telematics: Rear Seat Entertainment

NOTES
* 1 = GAGE SIZE LARGER FOR DURABILITY.
Lights – Exterior: Backup Lamps
NOTE: PICKUP CARGO LAMP IS PART OF THE CHMSL ASSEMBLY.
SEE: 1.08_lgt_ext_stop FOR INFORMATIONS.
Lights - Exterior: Emergency Lamp

- Power Distribution
  Gnd Dist
  Page - Gnd Dist - 12

- Ground Distribution
  Grid Zone #10
  Page - Gnd Dist - 12

Relay-Roof Beacon
900 Relay_Beacon_roof 001
UPC: 5990

Blunt Cut
SA1050

Blunt Cut
BB5989

Ground Distribution
Grid Zone #10
Page - Gnd Dist - 12

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

Lights - Exterior: Emergency Lamp

1_08_lgt_ext_emer_01
NOTE: THE DETAILS OF 5X7 AND 5Y0 ARE UNCONFIRMED - AWAITING FEEDBACK FROM WADE POWELL.
Lights – Exterior: Fog Lamps
Lights – Exterior: Fog Lamps

NOTES:
1. FRONT FOG LAMPS WILL BE POA THE FRONT TURN LAMP ASSEMBLY FOR CADILLAC, STAND ALONE FOR CHEVY/GMC
2. FRONT FOG LAMP INDICATION LOCATED IN IP CLUSTER
3. FRONT FOG LAMP SWITCH POA HEADLAMP SWITCH
4. LENGTH MUST STAY AS MARKED DUE TO VOLTAGE DROP REQUIREMENTS

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

1.08_lgt_ext_fog.02
**Lights – Exterior: Headlamps**

Diagram showing the electrical connections and components related to the headlamps system in a 2008 light duty full size C/K truck.
**Lights – Exterior: Headlamps**

**NOTES**

1. **LOW BEAM DRL ONLY ALLOWED WITH INCANDESCENT LOW BEAMS**

2. **THE TOTAL LENGTH OF THE "LOOPED" WIRE FOR GMC IS TO BE 8.0 METERS TO ACHIEVE THE PROPER DRL VOLTAGE.**

3. **THE TOTAL LENGTH OF EACH CHEVY DRL WIRE IS TO BE 9.0 METERS TO ACHIEVE THE PROPER DRL VOLTAGE.**

4. **THE TOTAL LENGTH OF CADILLAC DRL WIRE IS TO BE 9.0 METERS TO ACHIEVE THE PROPER DRL VOLTAGE.**

5. **SPICE TO BE CENTERED BETWEEN TWO DRL LAMPS TO EQUALIZE VOLTAGES.**

---

[Diagram of headlamp system with various labels and connections, including Gnd Dist, PWR DIST, Loop Anchor, and Minfuse-DRL, along with electrical part numbers and descriptions.]
Lights – Exterior: Park Lamps
Lights - Exterior: Park Lamps

- Lamp-Side Marker - Lh-Chevy 900_lamp_sm_trn 001
- Lamp-Park/Pos-Lh-Chevy 900_lamp_prk_trn 002
- Lamp-Side Marker - Lh-Gmc 900_lamp_marker 001
- Lamp-Park/Pos-Lh-Cad 900_lamp_prk_pos 001

Ground Distribution

Gnd Zone #1
Gnd Zone #2
Gnd Zone #3

NOTES
1. FRONT PARK/POS LAMPS & FRONT SIDE MARKER LAMPS WILL BE LED & POA HEADLAMP FOR CADILLAC UTILITY AND GMC ALL.
2. POA HEADLAMP FOR CHEVY UTILITY AND GMC ALL.

1.08_lgt_ext_park_Panel_02
1 of 10

**Lights – Exterior: Park Lamps**

[Diagram of Park Lamps]
Lights – Exterior: Park Lamps

Lights- Exterior: Park Lamps

1_08_lgt_ext_park_04
Lights – Exterior: Park Lamps
Lights – Exterior: Park Lamps

License lamps are in the liftgate for utilities & in the bumper for pickup/SUV’s.

Lights - Exterior
Lh Rear PU Lp
Page - ext_rr_lps-7/8

Ground Distribution
RRLK
Page - Gnd Dist - 21

Lamp-License-Lh-PU
900 lamp lic
UPC FNA 001
12110053

Lights - Exterior
Lh Rear PU Lp
Page - ext_rr_lps-7/8

Ground Distribution
RRLK
Page - Gnd Dist - 21

Lamp-License-Rh-PU
900 lamp lic
UPC FNA 001
12110053

Notes:
- License lamps are in the liftgate for utilities & in the bumper for pickup/SUV’s.
REAR LAMPS - SUV CHEVY

Lamp-Rr-Ls-SUV-Chev
900_lamp_rr_921 001

Ground Distribution
Gnd Zone #17A
Page - gnd_dist_30

NOTES

1. STOP LAMP ILLUMINATION IS CONTROLLED BY THE BCM BASED UPON THE ZABS SHOWN IN THE BRAKES SUBSYSTEM.

Lights - Exterior: Rear Lamps Asm
### Lights - Exterior: Rear Lamps Asm

**REAR LAMPS - PU GMC**

- **Lights - Exterior LT PRK (UBEC)**
  - Page: ext_park-10
- **Lights - Exterior BCK/UP (UBEC)**
  - Page: ext_stop-6

**Ground Distribution**

- Grid Zone #17
- Page: gnd_dist-21

**Lamp - Lh - Pu - GMC**
- GLS
- Ground Distribution
- Page: gnd_dist-21

**Lamp - Rh - Pu - GMC**
- Ground Distribution
- Page: gnd_dist-21
Lights – Exterior: Rear Lamps Asm

**REAR LAMPS - PU CAB/CHASSIS**

- **Lamps-Lh/Pu-Chevy**
  - Page - 300
  - UPC: 990 lamp_r_pu_cab
  - PNA: 001

- **Lamps-Rh/Pu-Chevy**
  - Page - 300
  - UPC: 990 lamp_r_pu_cab
  - PNA: 001

**Ground Distribution**
- Grid Zone #17
- Page - gnd_dist - 21

**Panel System Status**
- Object Status: O
Lights – Exterior: Stop/Turn

Ground Distribution
Grid Zone #1
Page - Grid Dist - 6

Lamp-Side-Repeater-Lh
300_lamp_side_rptr001
UPC FNA

Lamp-Turn-Lf-Cad
900_lamp_position
UPC FNA

1. Park/Turn Lamp
2. Park/Turn Lamp
3. Park/Turn Lamp

Ground Distribution
Grid Zone #1
Page - Grid Dist - 5

Lights - Exterior
Park/Turn Lamp
Page - ext_park-2

Lights - Exterior
Park/Turn Lamp
Page - ext_park-3
Lights – Exterior: Stop/Turn

Ground Distribution
Gnd Zone #2
Page - Gnd Dist - 6

Lamp-Side-Repeat-Rh
900_lamp_side_rptr 001
UPC PNA

Lamp-Turn-Rf-Cad
900_lamp_position
UPC PNA

Lights - Exterior: Stop/Turn
Page 1-1

Panel System Status:
Object Status:

Page 1-2

Page 1-3

Page 1-4

Page 1-5

Page 1-6

Page 1-7

Page 1-8

Page 1-9

Lights - Exterior Park/Turn Lamp Page - ext_park - 6
Lights - Exterior Park/Turn Lamp Page - ext_park - 7
Lights - Exterior Park/Turn Lamp Page - ext_park - 8
Electrical Manual – 2008 Light Duty Full Size C/K Trucks

Lights – Exterior: Stop/Turn

- Engine Controls
  - ECM
    - Page: 8/7/6
  - Engine Controls
    - Page: 5 of 9

- Transmission Controls
  - TCM
    - Page: 3 of 9

- Power Distribution
  - Misc IGN (UBEC)
    - Page: 17

NOTE
- CIRCUIT 6311 IS CONNECTED TO THE BCM BRAKE PEDAL APPLY
- OUTPUT SOLELY TO PROVIDE THIS OEM DDM FULL DOWM REQUIRED BY OPEL
- THE BCM HIVD ON THIS OUTPUT IS NEVER ASSERTED

ARE16411
003
GM Proprietary

Tuesday, October 10, 2006
8:29:24 am

Lights – Exterior: Stop/Turn

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

NOTES

- 1 - CIRCUIT 158 IS 1.0 FOR MECHANICAL STRENGTH.

Lights - Exterior
Lh Rear Stop LED Lp
Page - ext_rr_ips/ips-3/4

Lights - Exterior
Rh Rear Stop LED Lp
Page - ext_rr_ips/ips-3/4

Lights - Exterior
Lh Rear Stop LED Lp
Page - ext_rr_ips/ips-4

Lights - Exterior
Rh Rear Stop LED Lp
Page - ext_rr_ips/ips-1/2

Ground Distribution
Ground Zone #5
Page - gnd_dist - 9

Power Distribution
Battery Bus
Page - pow_bus - 8

Relay-CHMSL
relay spst 004
UPC FNA 15485114

Battery Bus
Page - pow_bus - 8

Battery Bus
Page - pow_bus - 8

Battery Bus
Page - pow_bus - 8

Battery Bus
Page - pow_bus - 8

Battery Bus
Page - pow_bus - 8

Battery Bus
Page - pow_bus - 8

Battery Bus
Page - pow_bus - 8

Battery Bus
Page - pow_bus - 8

Battery Bus
Page - pow_bus - 8

Battery Bus
Page - pow_bus - 8

Battery Bus
Page - pow_bus - 8

Battery Bus
Page - pow_bus - 8
**Lights – Exterior: Stop/Turn**

**Notes:**
- The trailer stop/turn relays should be outside the passenger compartment.
- To avoid the synchronization concerns with the turn signal click/clack sound.

**Diagram:**
- Power Distribution Battery Bus Page - Per Dist - 9
- Relay: TRLR STOP/TRN LT relay_spdt 004
  - OPC: FNA
  - Page: 15472014
- Relay: TRLR STOP TRN RT relay_spdt 004
  - OPC: FNA
  - Page: 15472014
- Minifuse: TRLR STOP LT 12092079
- Minifuse: TRLR STOP RT 12092079

**Module:**
- Export: 900_expmkl_stop_turn002
  - OPC: FNA
  - Page: J1-12110088
  - J2: 15357040
  - Page: 9 of 9
Lights – Interior
Lights – Interior

- Switch-Aux Window
- Switch-4WD Mode
- Switch-Headlight
- Switch-Deanlight
- Switch-Remote Entry
- Switch-Remote Start
- Switch-Rear Window
- Switch-Sunroof
- Switch-Urgence
- Switch-Vane
- Switch-Window
- Switch-Zone Heating
- Switch-Zone Heating-Aux

- Controls:
  - AUX HEATING
  - DOOR LOCKSW
  - DOOR LOCKSW
  - HORN
  - LAMP
  - LIGHTS
  - MIRRORS
  - SWITCHES
  - SUNROOF

- Systems:
  - ELECTRICAL
  - LIFTS
  - POWER OUTL
  - POWER SOURCES
  - SWITCHES

- Diagram:
  - Layout of electrical components and connections
  - Pages: D-1 to D-7

- Sections:
  - Window Switches
  - Headlight Switches
  - Door Lock Switches

- References:
  - Electrical Manual – 2008 Light Duty Full Size C/K Trucks
  - GMT900
  - ARE16412
  - 06/36/43

- Notes:
  - Proprietary information
  - For use by authorized personnel only

- Dates:
  - Wednesday, August 2, 2006
  - 08/22/06

- Page Numbers:
  - L01 Panel 3 of 7

- Document Details:
  - Electrical Manual – 2008 Light Duty Full Size C/K Trucks
  - 2008 GMT900
  - 06-06-06
Lights – Interior

- Closures ARB
- IP ARB Disable Switch
- Page: ARB -1
- Brakes/Veh. Speed
- IP VSES Switch
- Page: Base-1
- Wipe/Wash
- IP VPHS
- Page: Ftr. Wprs-2
- Closures ARB
- IP ARB Disable Switch
- Page: ARB -2
- Brakes/Veh. Speed
- IP VSES Switch
- Page: Base-1
- Wipe/Wash
- IP VPHS
- Page: Ftr. Wprs-2
- Closures ARB
- IP ARB Disable Switch
- Page: ARB -2
- Brakes/Veh. Speed
- IP VSES Switch
- Page: Base-1
- Wipe/Wash
- IP VPHS
- Page: Ftr. Wprs-2
- Closures ARB
- IP ARB Disable Switch
- Page: ARB -2
- Brakes/Veh. Speed
- IP VSES Switch
- Page: Base-1
- Wipe/Wash
- IP VPHS
- Page: Ftr. Wprs-2
- Closures ARB
- IP ARB Disable Switch
- Page: ARB -2
- Brakes/Veh. Speed
- IP VSES Switch
- Page: Base-1
- Wipe/Wash
- IP VPHS
- Page: Ftr. Wprs-2
- Closures ARB
- IP ARB Disable Switch
- Page: ARB -2
- Brakes/Veh. Speed
- IP VSES Switch
- Page: Base-1
- Wipe/Wash
- IP VPHS
- Page: Ftr. Wprs-2
Obstacle Detection: Ultrasonic Park Assist – Rear

- REAR UPA STANDARD ON CADILLAC & OPTIONAL CHEVY/GMC
Obstacle Detection: Ultrasonic Park Assist – Rear

- REAR UPA STANDARD ON CADILLAC & OPTIONAL CHEVY/GMC

Display-UPA Rear Utility
900_disp_upa_rear_004
UPC: FNA
89047351

Display-UPA Rear Pickup
900_disp_upa_rear_ pu001
UPC: FNA
12045813

Notes:
+1 - UPA Rear Display Indicators Are Not Dimmable.
Obstacle Detection: Rear Vision Camera

Module-Camera ECU
900_midl_camera_ecu004
UPC: FNA

NOTES
- 1 = SHIELD USED FOR VIDEO GROUND.
- 2 = WIRES TWISTED AT WIRING SUPPLIERS REQUEST TO ADDRESS HARNESS BUILD CONCERNS.
- Wires are NOT twisted for system performance.
- 3 = CASE GROUND IS INAPERTURE - RESULTING GND NOT REQUIRED
- 4 = GAGE SIZE IS LARGER FOR SPLICING.
Obstacle Detection: Rear Vision Camera

NOTE:

1. SHIELD USED FOR VIDEO GROUND.

2. WIRES TWISTED AT WIRING SUPPLIERS REQUEST TO ADDRESS HANRESS BUILD CONCERNS.

WIRES ARE NOT TWISTED FOR SYSTEM PERFORMANCE.
Obstacle Detection: Rear Vision Camera

Module-Camera ECU
900_mdl_camera_ecu2 004
UPC FNA
19115105

Obstacle Detection: Rear Vision Camera

Radio
900_radio_displ_rvc 007
UPC FNA
J1-15488558
J2-15416970
J3-15429805
J4-15429806
J5-TBD
J6-TBD

NOTES
+1 = GAGE SIZE LARGER FOR DURABILITY.
Positioning/Comfort: Electric Adjust Pedals

- Adaptable Pedals only move when vehicle is not in reverse or cruise.
- EAP SW wire gages consistent for memory & non-memory.
Positioning/Comfort: Electric Adjust Pedals w/ Memory

- Electrical Manual – 2008 Light Duty Full Size C/K Trucks

- Positioning/Comfort: Cooled/Heated Front Cup Holder

- Diagram showing the wiring and components related to the cup holder, including power distribution, run relay, and ground distribution.
Positioning/Comfort: Cooled/Heated Seats – Front w/Memory

- **Electrical Manual – 2008 Light Duty Full Size C/K Trucks**

**Notes:**
- Rear cooled seats are not supported.

---

**TED Seat Back Driver**
- 900_ted_asm_seat_back002
- UPC: FNA
- Panel: E3575-001

**TED Seat Cushion Driver**
- 900_ted_asm_seat_cush002
- UPC: FNA
- Panel: E3578-001
Positioning/Comfort: Cooled/Heated Seats – Front w/Memory

NOTES:

1. REAR COOLED SEATS ARE NOT SUPPORTED.
2. SAME OUTPUTS AS SEAT VENT.
Positioning/Comfort: Heated Seats – Front w/Memory

Switch-Seat Heated/Vented/Memory Driver
900_sw_memht_pc_hv_drv 001
UPC FNA

Switch-Seat Heated/Vented Pass
900_sw_seat_hv_pas 001
UPC FNA

Module-HVAC Control
900_hvac_pc_st_hv_frt 001
UPC FNA
CLASS=N
AZTS
TBD
Positioning/Comfort: Heated Seats – Front w/Memory

Heater-Seat Cushion Front Driver
UPC: FNA

Heater-Seat Back Front Driver
UPC: FNA

Module-Memory Seat
UPC: FNA

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08/22/06
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Electrical Manual – 2008 Light Duty Full Size C/K Trucks

PAGE D-298

Positioning/Comfort: Heated Seats – Front w/Memory
SECTION 1

Positioning/Comfort: Heated Seats - Front w/ Memory

Module-Memory Seat
900_msm_pc_st_hv_m2002

- 1PC PNA
- J1-15134091
- J2-15134084
- J3-15134095
- J4-15134092
- J5-15128711
- J6-15128710
- J7-15128709

NOTE

1. HEATED SEAT SWITCHES FOR CHEV/GMC SHALL BE LOCATED ON FRONT DOORS WIRING TO
- DOOR MODULE (ISL COMMUNICATIONS FOR SWITCH STATUS), HEATED SEAT SWITCHES
- FOR CADILLAC SHALL BE IN HVAC CONTROLLER.
- UP TO 3 MODES & 3 LEVELS SUPPORTED.
- THIS CIRCUIT MAY NOT BE PROTECTED AGAINST A SHORT TO GROUND BY THE UPSTREAM
- MODULE. USE CARE WHEN SELECTING THE WIRE GAGE.
- SEE MEMORY DRIVER SEAT FOR BACKLIGHT BULB.
Positioning/Comfort: Heated Seats – Rear

- Power Distribution
- Minifuse-REAR SEAT (LBEC)
- Ground Distribution
- Ground Zone #1
- Power Modelling / Serial Data
- Splice Saver - Body
- Panel System Status

Diagram showing electrical connections and components related to heated seats.
Positioning/Comfort: Heated Seats – Rear

Paralleling Grounds May Be Required to Meet GMLAN Ground Offset Requirements

Module-Seat Heated/Vented Rear
900_mdl_seat_heat_r

Heater-Seat Cushion Rear Left
900_heat_seat_cush_l

Heater-Seat Cushion Rear Right
900_heat_seat_cush_r

Notes:
1. No Heated seat switches on rear doors.
2. Heated seat switches will be located on rear HVAC head or rear console & will be hardwired to the module.
3. Max content of single mode dual temp supported.
4. Same module & hardware as heated/vented although vented unused.
5. This circuit may not be protected against a short to ground by the upstream module. Use care when selecting the wire gauge.
6. Parallel grounds may be required to meet GMLAN ground offset requirements.
Positioning/Comfort: Power Driver Seat w/Memory

Switch-Seat Heated/Vented/Memory Driver
900_sw_memht_pc_drv_m_001

Switch-Memory
900_sw_mem001

Positioning/Comfort
Switch- Driver Heated/Vented Seat / Memory
Page 1

SEE INDIVIDUAL SUBSYSTEMS FOR MEMORY ADJUSTABLE PEDALS, HEATED FRONT SEATS, MIRRORS, & COOLED FRONT SEATS (IF MEMORY).
Positioning/Comfort: Power Driver Seat w/ Memory

Panel System Status
- Object Status: 1

Ground Distribution
- Ground Zone #11 Page - Gnd Dist 1

Sensor-Seat Drive
- Refer To Sensor-Seat Lumbar Driver Page - 4

Motor-Seat Recline Driver
- Refer To Sensor-Seat Driver Page - 3

Power Distribution
- Splice Saver-Body/Splice Saver - Ip-1 Page - Pwr Mode - 24

Module-Memory Seat
- 900_msm_pc_stDrv_m_002 UPC FNA

NOTES
- This circuit may not be protected against a short to ground by the upstream module. Use care when selecting the wire gage.
- Conn cannot accept larger than 1.0 gage. MSM will limit current.
Positioning/Comfort: Power Driver Seat w/ Memory

Switch-Seat Position 8-Way Driver
900_sw_seat_8wayDrv_001
UPC FNA

Module-Memory Seat
900_msm.pc_st_drv.m_002
UPC FNA

Motor-Seat Driver
900_mtr.seat_tri.m_003
UPC FNA

- 1 - THIS CIRCUIT MAY NOT BE PROTECTED AGAINST A SHORT TO GROUND BY THE UPSTREAM MODULE. USE CARE WHEN SELECTING THE WIRE GAGE.
- 2 - CONN CANNOT ACCEPT LARGER THAN 1.0 GAGE. MSM WILL LIMIT CURRENT.
Positioning/Comfort: Power Passenger Seat

Motor-Seat Recline Pass 900_mtr_seat_rec_pass 003
UPC FNA

Motor-Seat Lumbar Pass 900_mtr_seat_lumbar 001
UPC FNA

Switch-Seat Lumbar Pass 900_sw_seat_lmr_pass 001
UPC FNA

Switch-Seat Position 8-Way Pass 900_sw_seat_8way_pass 001
UPC FNA

Positioning/Comfort: Power Passenger Seat

1.08_pc_st_pwr_pas_01
Positioning/Comfort: Power Passenger Seat

Power Distribution
CIRCUIT BREAKER - PSEAT 1 (MBEC)
Page - Pwr Dist-20

Ground Distribution
Grid Zone #12
Page - Grid Dist-15

Switch-Seat Position 6-Way Pass
900_sw_seat_6way_pass_001
UPC - FNA

Motor-Seat Pass
900_mtr_seat_tri_003
UPC - FNA

Positioning/Comfort: Power Passenger Seat
1_08_pc_st_pwr_pas_Panel 2 of 2

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Tuesday, August 22, 2006
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Power Manual - 2008

Electrical Manual – 2008 Light Duty Full Size C/K Trucks
Positioning/Comfort: Power Driver Seat wo/Memory

Switch-Seat Heated Driver
900_sw_ht_pc_drh_hyb001
UPC_FNA

Switch-Seat Heated Pass
900_sw_seat_h_psh_hyb001
UPC_FNA

Module-HVAC Control
900_hvac_pc_st_hv_frt_001
UPC_FNA
CLASS=N

TBD
Positioning/Comfort: Power Driver Seat wo/Memory

Module Seat Heated

Positioning/Comfort: Heated Seats - Hybrid wo/Memory

NOTES

1. HEATED SEAT SWITCHES FOR CHEVY/GMC SHALL BE LOCATED ON FRONT DOORS WIRED TO DOOR MODULES (GMLAN COMMUNICATIONS FOR SWITCH STATUS). HEATED SEAT SWITCHES FOR CADILLAC SHALL BE IN HVAC CONTROLLER.
2. UP TO 3 MODES & 3 LEVELS SUPPORTED.
3. THIS CIRCUIT MAY NOT BE PROTECTED AGAINST A SHORT TO GROUND BY THE UPSTREAM DOOR MODULES (GMLAN COMMUNICATIONS FOR SWITCH STATUS).
4. USE CARE WHEN SELECTING THE WIRE GAGE.

— MODULE USE CARE WHEN SELECTING THE WIRE GAGE.

— MEMORY DRIVER SEAT FOR BACKLITING BULB.
Positioning/Comfort: Power Driver Seat wo/Memory
Positioning/Comfort: Power Passenger Seat – Hybrid

Power Distribution
CIRCUIT BREAKER - PSEAT 1 (MBEC)
Page - Pwr Dist-20
25A
PSTSW_HYB_BATT
1440.00
RD/WH
3.01
2MP
POA_PSEAT

Switch-Seat Position 6-Way Pass
900_sw_seat_6way_pass_001
UPC FNA

Motor-Seat
900_hyb_mtr_seat_trl
UPC FNA 001

Ground Distribution
Gnd Zone #12
Page - Grid Dist-16

15326924
15324915

Positioning/Comfort: Power Passenger Seat - Hybrid

REV 001
STAGE X
VERSION 0
LAST CHANGED BY GMT900
RELEASED 1
ORGANIZATION GM Proprietary
USAGE HP2

Tuesday, January 24, 2006

1_08_pc_st_pwr_pas_hyb
Positioning/Comfort: Power Fold & Tumble 2nd Row Seats

Motor-Seat Fold Tumble Rear Left
900_mtr_seat_ft_rr 002
UPC FNA

Motor-Seat Fold Tumble Rear Right
900_mtr_seat_ft_rr 002
UPC FNA

Ground Distribution
Gnd Zone #11
Page - Gnd Dist-14

Ground Distribution
Gnd Zone #12
Page - Gnd Dist-16

NOTES
+1 — FOLD & TUMBLE SEATS ONLY WORK WHEN VEHICLE IN PARK.
Positioning/Comfort: Heated Steering Wheel

Power Distribution
MiniFuse-HTD STR/WHL (UBEC)
Page: Per Dist-19

Fusing-Steering Wheel
900.fuse_wheel_heat 002
UPC FNA

Module-Heated Steering Wheel
900.mdl_wheel_heat 002
UPC FNA

Heater-Steering Wheel
900.heater_wheel 001
UPC FNA
Protection: SIR Utility

Module-SDM
900_SDM_F
UPC FNA
ARE40424 006

Protection: SIR Utility

NOTE: SDM CONNECTOR
P/N 13577645 CAN/SHOULD
BE SUBSTITUTED FOR
"ASF" APPLICATIONS.

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

Monday, September 18, 2006

1_08_prot_sir_03
Protection: SIR Utility

The seatbelt switches open when the seatbelts are buckled.

The SDM supports 8 additional deployment loops.

All SUV/UUVs have dual staged airbags.

The seatbelt switches open when the seatbelts are buckled.

Ground wire is on USA applications only.
Protection: SIR Pickup

NOTE:
SDM CONNECTOR P/N 13579294 SHOULD BE USED FOR '03/53 LD & A$S' APPLICATIONS.
SDM CONNECTOR P/N 13579500 SHOULD BE USED FOR '03/53 LD & A$S' APPLICATIONS.
SDM CONNECTOR P/N 13579295 SHOULD BE USED FOR '03 LD & A$S' APPLICATIONS.
SDM CONNECTOR P/N 13579293 SHOULD BE USED FOR '03 LD & A$S' APPLICATIONS.
SDM CONNECTOR P/N 13579292 SHOULD BE USED FOR '03 LD & A$S' APPLICATIONS.
SDM CONNECTOR P/N 13579291 SHOULD BE USED FOR '03 LD & A$S' APPLICATIONS.
SDM CONNECTOR P/N 13579290 SHOULD BE USED FOR '03 LD & A$S' APPLICATIONS.
Protection: SIR Pickup

Sensor-LF Seat Position
900_sens_seat_pos 003
UPC FNA

Switch-LF Seatbelt Switch
900_sw_seatbelt001
UPC FNA

Module-SDM
900_sdm_b 007
UPC FNA

Protection: SIR Pickup
1_08_prot_sir_pu Panel 4 of 7

Pretensioner-LF Seat Belt
900_sir_pret001
UPC FNA

Inline_109D
505
7

0.5
AU
28

DRY_ST_PRET_SENS_HI

DRY ST_PRETSENS_HI

13570284

Protection: SIR Pickup
1_08_prot_sir_pu Panel 4 of 7

Pretensioner-LF Seat Belt
900_sir_pret001
UPC FNA

Inline_252B5
Protection: SIR Pickup

Module-SDM
900_sdm_h_007
UPC FNA

Protection: SIR Pickup
1_08_prot_sir_pu Panel 5 of 7
A0345/53
Protection: SIR Pickup
Power Distribution

**NOTES**

- 7" WIRE MINIMUM SIZE OF 2.0 FOR FSCM TERMINAL VALIDATION.

**Power Distribution**

1_08_pwr_dist Panel 1 of 26

Wednesday, November 15, 2006

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GM Proprietary

2008 GMT900 MVBS

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Power Distribution

- The ring terminal connections to the stud J-case fuses are not made at the VAP and are "customer installed".
- The ring terminal-Aux Batt UPC FNA 12103506
- The ring terminal-Trlr1 UPC FNA 12103506
- The ring terminal-Trlr2 UPC FNA 12103506
- The ring terminal-ITBC UPC FNA 12103506
- The ring terminal-ITBC UPC FNA 12103506

**NOTES:**
- "The ring terminal connections to the stud J-case fuses are not made at the VAP and are "customer installed".
- "Utilities-Fuse installed/Pickups-Fuse not populated. Owner purchased fuse."

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Electrical Manual – 2008 Light Duty Full Size C/K Trucks
Power Distribution

Device Connections

- UBEC
- ECM
- MAF
- Fan Controls
- Canister Purge Solenoid
- Engine Controls

Fuse and Relay Locations

- FAN1_COIL_PT
- FAN2_COIL_PT
- CAN_PURGE_V6_PTR
- ECM PTR1
- ECM PTR2
- ECM PTR3
- ECM PTR4
- ECM PTR
- ECM_PT
- ECM_PTR4
- ECM_PTR3
- ECM_PTR2
- ECM_PTR
- ECM_PT
- ECM_PTR1
- ECM_PTR1
- ECM_PTR4
- ECM_PTR3
- ECM_PTR2
- ECM_PTR
- ECM_PT
- ECM_PTR1
- ECM_PTR4
- ECM_PTR3
- ECM_PTR2
- ECM_PTR
- ECM_PT

Power Distribution Diagram

- 1,08_pwr_dist Panel
- 1 of 26

System Status

- NEED TO CONFIRM THIS FUSE

Date: November 15, 2006

Company: General Motors Corporation
NOTE: EVALUATE THE POSSIBILITY TO USE THIS FUSE FOR DIESEL FUEL HEATER TO AVOID AN EXTRA FUSE AND/OR UBEC PROLIFERATION?
NOTE: LEAVE TP2 FEED "AS IS" FOR HD PICKUPS, OR ELIMINATE RUN RELAY & FUSES FROM UBEC AND ADD AN "IN HARNESS" RUN RELAY FOR TP2 APPLICATION.
Power Distribution
Power Moding/Serial Data

HYBRID

OPTIONS GM HIGH SPEED LAN CONNECTIVITY

- EPS
- TPIM
- TERM

ECM → TCM → BCM → MBEC → ONSTAR → MBEC → 4WD

- DLC

NOTE: THERE ARE MULTIPLE VERSIONS OF THE TCM AND BRAKE/VSES MODULE
- USED ON GMT900, DEPENDING UPON BUILD CONFIGURATION
- MODULES ARE SHOWN IN TYPICAL CONNECTIVITY ORDER. IF A GIVEN MODULE
- IS NOT PRESENT, MODULES ON EITHER SIDE CONNECT DIRECTLY.

Non-HYBRID

OPTIONS GM HIGH SPEED LAN CONNECTIVITY

- ECM (TERM)
- TCM
- PTO
- GPM
- BCM
- MBEC
- ONSTAR
- MBEC
- 4WD

- DLC

Chassis notes:
- Notes
- ENG
- IP
- INFO/JMPR
- IP
- CHASSIS
NOTES
* T – BOTH THE BCM AND IPC ARE "PRIMARY" LS GMLAN NODES, INSTEAD OF A "UNIT" LS GMLAN NODES. ALL OTHER LS GMLAN NODES ARE "UNIT" LOADS.
Power Moding/Serial Data

Transmission Controls
TCM - M3
Page - TCM-1

Engine Controls
ECM - V6
Page - Eng Ctrl V6-1

Transmission Controls
TCM - MW
Page - TCM-1

Engine Controls
ECM - V6
Page - Eng Ctrl V6-1

Transmission Controls
TCM - MW
Page - TCM-1

Engine Controls
ECM - V6
Page - Eng Ctrl V6-1

Transmission Controls
TCM - MW
Page - TCM-1

Engine Controls
ECM - V6
Page - Eng Ctrl V6-1

Transmission Controls
TCM - MW
Page - TCM-1

Engine Controls
ECM - V6
Page - Eng Ctrl V6-1

Transmission Controls
TCM - MW
Page - TCM-1

Engine Controls
ECM - V6
Page - Eng Ctrl V6-1

Transmission Controls
TCM - MW
Page - TCM-1

Engine Controls
ECM - V6
Page - Eng Ctrl V6-1

Transmission Controls
TCM - MW
Page - TCM-1
Power Moding/Serial Data

Engine Controls
ECM - Hybrid
Page - Eng Hyb-1

Trans Control - Hybrid
TPM Page - ahx2, trans-1

Eps Mod
Page - Eps Hyb-1

Transmission Controls
TPIM Page - Hyb-1

Transmission Controls
TPIM Page - Hyb-1

Transmission Controls
TPIM Page - Eps Hyb-1

Transmission Controls
TCM - T43 Page - TCM Hyb-6

Transmission Controls
TCM - T43 Page - TCM Hyb-6

HSLAN_EPS_IN+
HSLAN_EPS_IN-
HSLAN_EPS_OUT+
HSLAN_EPS_OUT-
HSLAN_ECM_LFA_OUT+
HSLAN_ECM_LFA_OUT-
HSLAN_T43_IN+
HSLAN_T43_IN-
HSLAN_T43_OUT+
HSLAN_T43_OUT-

Transmission Controls
TPIM Page - Hyb-1
Power Moding/Serial Data

Transmission Controls
TCM - MYC/MYD
Page - TCM-1

Transmission Controls
TCM - MYC/MYD
Page - TCM-1

Power Moding/Serial Data

1_08_pwr_mode_07
Power Moding/Serial Data

Transmission Controls
TCM - MWT
Page - TCM-1

Transmission Controls
TCM - MWT
Page - TCM-1

Engine Controls
PTO Module
Page - PTO-1

Engine Controls
PTO Module
Page - PTO-1

Glow Plug Module
Page - Diesel-17

Glow Plug Module
Page - Diesel-17
Power Moding/Serial Data

Switch-DLIS Ig
900_sw_dlis 002
UPC FMA

NOTE: Per ICD, Standard/Option is in HCM18-C06-K.
Power Moding/Serial Data

HSLAN_BCM.OUT - Page 10
HSLAN_BCM.OUT+

HSLAN_BCRK+ - Page 13
HSLAN_DLC_IN-

HSLAN_BCM.OUT-

Loop Anchor

Infotainment & Telematics
OnStar Module
Page - OnStar - 1

M5

15467567

-08_pwr_mode_
Power Moding/Serial Data

Data Link Connector 900_conn_datalink 001
UPC FNA 12110250

Ground Distribution
Gnd Zone #10
Page: gnd_dist-10

Ground Distribution
Gnd Zone #10
Page: gnd_dist-20

Power Distribution
LTR (UBEC)
Page:pwr_dist-11

20A
DLC_BATT

Page 25
Power Moding/Serial Data
Power Moding/Serial Data
NOTE:
FOR GMT900 NQG IS ONLY AVAILABLE WITH A MANUAL TRANSMISSION.
Power Moding/Serial Data
Power Moding/Serial Data
Power Train Expansion HIGH SPEED CAN CONNECTIVITY

- APM → TPIM → ECM → SCB → CGM → MBEC → Inertial Sensor → TERM
- DLC

ENG   → IP   → Body

NOTES:
- MODULES ARE SHOWN IN TYPICAL CONNECTIVITY ORDER. IF A GIVEN MODULE IS NOT PRESENT, MODULES ON EITHER SIDE CONNECT DIRECTLY.
ARTWORK NOT AVAILABLE
1/8/07
Power Train Expansion Bus

Engine Controls
ECM-Out
Page-Eng Ctrl Dsl-1

PTLAN_ECM_OUT+
PTLAN_ECM_OUT-

Transmission Controls
TPIM
Page, TPIM-1

Yarns
D-BU
L-BU
ENG

PTLAN_TPIM_IN+
PTLAN_TPIM_IN-

PTLAN_TPIM_IN+
PTLAN_TPIM_IN-

Power Train Expansion Bus

ARE82073
002
GM Proprietary

Wednesday, November 15, 2006

1_08_PWR_MODE_PTLAN Panel 3 of 10

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

1_08_pwr_mode_ptlan_03
Power Train Expansion Bus

Diagram of Power Train Expansion Bus with connections labeled PTLAN_APM_IN, PTLAN_APM_OUT, PTLAN_TPIM_OUT+, PTLAN_TPIM_OUT-, PTLAN_TPIM_IN+, and PTLAN_TPIM_IN-.
Power Train Expansion Bus

- Brakes - Hybrid SCB
- Power Train Expansion Bus
- PTLAN, SCB_Out
- CGM_Power Train Expansion Bus
- PTLAN_SCB_OUT_
- CHASSIS
- PTLAN_CGM_IN_
- PTLAN_SCB_OUT_
Power Train Expansion Bus
Power Train Expansion Bus

Data Link Connector
900_conn_datalink_001
UPC PNA

12110250
**Power – External: Cigar Lighter**

- ONLY CADILLAC GETS A FACTORY INSTALLED CIGAR LIGHTER.
- THERE IS NO FACTORY INSTALLED CIGAR LIGHTER FOR GMT900 FOR CHEVY/GMC.
- SEE POWER OUTLETES FOR A DEALER INSTALLED CIGAR LIGHTER FOR CHEVY/GMC.

---

**Diagram Note:**

- Power Distribution
  - LTR (UBEC)
  - Page: Pwr Dist: 11
  - 20A
  
- Ground Distribution
  - Gnd Zone #19
  - Page: Gnd Dist: 13
  
- Cigar Lighter - IP 900_cig_ltr 001
  - UPC: PNA
  - 12176836
Power – External: 110 Vac Power Outlet
Power – External: Police Power
Power – External: Police Power

Charging Mobile Radio Megafuse
Page: - Gas - 3

60A

MOBRADIO_BATT

Power - External: Police Power

1.08_pwr_xt_police_02

Page - Upfitter/SEO

900_rly_police_radio

001

UPC

SA102

900_cb_police_pwr

001

UPC

SA102

900_cb_police_pwr

001

UPC

SA102

900_cb_police_pwr

001

UPC

SA102

900_cb_police_pwr

001

UPC

SA102

900_cb_police_pwr

001

UPC

SA102

900_cb_police_pwr

001

UPC

SA102

900_cb_police_pwr

001

UPC

SA102

900_cb_police_pwr

001

UPC
Power – External: Trailer Brakes

Power Distribution
Mk Stud (UNEC)
Page - Pwr Dist-3

Lights - Exterior
ZAB Switch
Page - ext stop-5

Ground Distribution
Grid Zone #10
Page - Grid Dist-10

M8 Stud (UBEC)
30A
Power Distribution

Trailer/Export Trailer
Page - Trlr/Trlr Exp-1,2,7,1

Trailer/Export Trailer
Page - Trlr_Batt

Trailer/Export Trailer
Page - Trlr_ZAB

Trailer/Export Trailer
Page - Trlr_GND

Trailer/Export Trailer
Page - Trlr_BRK

Trailer/Export Trailer
Page - Trlr_ZAB
Power – External: Camper/Trailer
Power – External: Camper/Trailer

Diagram showing the electrical system status and object status for Power - External: Camper/Trailer.
NOTE

THIS PIN CONNECTED TO GROUND WHEN TRAILER IS CONNECTED
Power – External: Upfitter/SEO
Steering: Steering Wheel Controls
Steering: Steering Wheel Controls

- STEERING: Steering Wheel Controls
- Power Moding / Serial Data
- Interior Lighting
- Ground Distribution
- Col - Clock Spring Coil

NOTES:
- FORD VEHICLES WITHOUT VOICE RECOGNITION THIS WILL BE MUTE
Steering: EPS Hybrid

EPS 42V Circuits

EPS SHIELD 42V SHIELD 42V BATT 42V GND

CHARGING & ENERGY CHARGING & ENERGY CHARGING & ENERGY CHARGING & ENERGY
APM APM APM APM

J1-pe138489 - 42V J2-AHM07029-14V

42V POS 42V NEG 42V POS SHLD 42V NEG SHLD

Ehps ahs2_ehps 007

GM Proprietary
Suspension Controls: Damping-Automatic

Suspension Controls: Damping-Automatic
Suspension Controls: Damping-Automatic

Suspension Controls: Damping-Automatic

- Sensor-Corner Height Position Sensor 900_snir_pos_hall.001
- Sensor-Corner Height Position Sensor 900_snir_pos_hall.001
- RTD Module 900_rtd10_c upc fna.002
- Sensor-Corner Height Position Sensor 900_snir_pos_hall.001
- Sensor-Corner Height Position Sensor 900_snir_pos_hall.001
- Suspension Controls: Damping-Automatic
Transmission Controls: 4L60E/4L70E

Transmission Controls: 4L60E/4L70E

Power Distribution
R/C-TRANS IGN 1(Ubec)
Page - Per Dist -18

Power Distribution
Batt-TCM-BATT(Ubec)
Page - Per Dist -10

Power Distribution
R/C-TRANS IGN 1(Ubec)
Page - Per Dist -18

Power Modding/Serial Data
ECM
Page - Per Mode -3,4

Power Modding/Serial Data
ECM
Page - Per Mode -3,4

Power Modding/Serial Data
ECM
Page - Per Mode -3,4

Lights-Exterior Switch-ZAB
Page - Stop-5

Ground Distribution
Grid Zone #4
Page - Grid Dist -8

Ground Distribution
Grid Zone #4
Page - Grid Dist -8

Ground Distribution
Grid Zone #4
Page - Grid Dist -8

Power Modding/Serial Data
ECM
Page - Per Mode -3,4

Power Modding/Serial Data
ECM
Page - Per Mode -3,4

Power Modding/Serial Data
ECM
Page - Per Mode -3,4

Power Modding/Serial Data
ECM
Page - Per Mode -3,4

Power Modding/Serial Data
ECM
Page - Per Mode -3,4

Transmission Controls: 4L60E/4L70E

1_08_trans_tcm_4L60e_01
Transmission Controls: 4L60E/4L70E
Transmission Controls: 4L60E/4L70E

Power Distribution
R/C TRANSIGN 1 (Diode)
Page - Part Dist.-18

Ground Distribution
Case Grid
Page - Grid Dist.-29

CIRCUIT 1227 UPSIZED BY PSDS, TO COMMONIZE CUT LEAD PROCESSING WITH CIRCUIT 1223

1227

1983. TX
19
19
0.35
0.35
19
900 Trans_4L60e

1984. TX
0.35
0.35
0.35
0.35

Transmission-4L60e
900_trans_4L60e
UPC FNA 002

Transmission Controls: 4L60E/4L70E

1_08_trans_tcm_4L60e Panel 3 of 3
Panel Set: 3
AM35070

1_08_trans_tcm_4L60e_03
Transmission Controls: 6L80/6L90

INTERNAL TO TRANSMISSION
Transmission Controls: Allison LCT

ALLISON REQUESTS 15 AMP, FROM ICD.

SHOULD BATT BE 15A?

Power Distribution
Batt-TCM-BATT(Ubec)
Page - Par Dist.-10

15A

TCM_BATT

Power Distribution
Batt-TCM-BATT(Ubec)
Page - Par Dist.-10

1840

GND

1840

SH/R/W
0.5
ENG

0.87

128

2139

ENG

0.5

GMHS

XCVR

Panel

System Status

ARE GROUNDS INTERNALLY TIED?

FROM ALLISON DRAWING, THEY APPEAR TO BE

ARE GROUNDS INTERNALLY TIED?

Transmission Controls: Allison Lct

1.08_trans_tcm_lct Panel 1 of 3

Panel Set: 1

ARE16448

003

GMT Proprietary

Thursday, November 16, 2006

8:39:48 AM

REV0.0

TCM-LCT

900_tcm_lct_c

SFC

FNA

001

13551663

Transmission Controls: Allison Lct

Power Moding/Serial Data
ECM

Page - Par Mode-4

HSLAN_LCT_IN

Power Moding/Serial Data
ECM

Page - Par Mode-4

HSLAN_LCT_IN

Power Moding/Serial Data
ECM

Page - Par Mode-22

HSLAN_LCT_IN

Power Moding/Serial Data
PTO Mdl

Engine Controls
ECM

Page - Q-M1-28

HSLAN_LCT_OUT

Power Moding/Serial Data
PTO Mdl

Engine Controls
ECM

Page - Q-M1-28

HSLAN_LCT_OUT

Power Moding/Serial Data
PTO Mdl

Engine Controls
ECM

Page - Q-M1-28

HSLAN_LCT_OUT
Transmission Controls: Allison LCT
Transmission Controls: Allison LCT
Transmission Controls: Hybrid

Hi Voltage Controls - Hybrid

Transmission: Controls
Hybrid
TR01 Panel
3 of 8

TPIM
900_hybrid_mdl_tpins_b_001
UPC: FNA

15357147 (16-WAY)
VASS: Miscellaneous

Switch-Liftgate Handle
900_sw_lgate_handle 001
UPC FNA

Power Distribution
UBEC
Page-Per Dist-7
LATCH, RLY, BAT
2

Latch-Liftgate
900_latch_lgate_vassm/002
UPC FNA
15476007

Ground Distribution
Gnd Zone #14
Page-Gnd Dist-17
VASS: Miscellaneous Hybrid

Ground Distribution
Gnd Dist #14
Page: Gnd Dist-16

Stop-Latch Handle
900_sw_lgate_handle 001
UPC FMA

Power Distribution
Page - Pwr Dist-7
UBEC K4

Latch-Liftgate 000_latch_lgate_vasm001
UPC FMA

15473007

Relay-PCB-Liftgate relay_spst 004
UPC FMA

Ground Distribution
Grid Zone #14
Page: Gnd Dist-16
VASS: No Door Modules
VASS: No Door Modules
VASS: No Door Modules

- PICKUPS ONLY

Latch-Global Rear Left
900_latch_global_lr001
UPC: FNA

Latch-Global Rear Right
900_latch_global_r001
UPC: FNA

Ground Distribution
Page: Gnd Dist 11
Page: Gnd Dist 12

Ground Distribution
Page: Gnd Dist 11
Page: Gnd Dist 12

ARE16451
003
GM Proprietary

Wednesday, September 6, 2006

2008

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

1_08_vass_mod0_06
VASS: 2 Door Modules

Latch-Global Rear Left
900_latch._global._lr.001
UPC: FNA

Latch-Global Rear Right
900_latch._global._rr.001
UPC: FNA

PICKUP ONLY

Ground Distribution
Gnd Zone #11
Page: Gnd Dist-14

Ground Distribution
Gnd Zone #12
Page: Gnd Dist-15

Electrical Manual – 2008 Light Duty Full Size C/K Trucks
TIRE PRESSURE MONITORING ON VEHICLES BELOW 10,000 GVWR FOR GMT900.

NOTES:

1. TIRE ANTENNAS SHOWN FOR FUNCTIONALITY. INTERNAL TO VALVE STEM.
2. SPARES & DUALIES NOT MONITORED.
VASS: SPO Theft (Drive Away)
VASS: Universal Garage Door Opener

Power Distribution
Minifuse-PDM (LBEC) via MBEC
Page: Pwr Dist - 21

Lights - Interior
RCM via MBEC
Page: Ligt Int - 3

Module-UGDO
900.mdl_uqndo 003
UPC: PFA

Ground Distribution
Gnd Zone #10
Page: Gnd Dist - 12

- AVAILABLE ON 06/36/43&YE9

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

Tuesday, August 22, 2006
9:08:40 am

ARE16455
003
GM Proprietary
I3C/ESI

VASS: Universal Garage Door Opener
1_08_vass_uqndo Panel 1 of 1
AUG1
Windows: Express Down No Door Modules

Power Distribution

Switch - LF Window
900_lf_win_sw 002

Ground Distribution
Gnd Zone #2
Page - Gnd Dist -18

Lights - Interior
BCM Via LBEC
Page - Lgt Int - 3

Power Distribution
Circuit Breaker
Page - Pwr Dist - 22

Ground Distribution
Gnd Zone #10
Page - Gnd Dist - 20

Power Distribution
BCM Via MBEC
Page - Pwr Dist - 26

Lights - Interior
BCM Via LBEC
Page - Lgt Int - 3

Lights - Interior
Page - Lgt Int - 3

Power Distribution
Circuit Breaker
Page - Pwr Dist - 20

Ground Distribution
Gnd Zone #2
Page - Gnd Dist - 18

Ground Distribution
Gnd Zone #10
Page - Gnd Dist - 10

Motor-Window Front Left
900_motor_win 002

Motor-Window Front Right
900_motor_win 002

Windows: Express Down No Door Modules

ARE75389
003
GM7900
GM Proprietary

Tuesday, August 22, 2006
9:18:06 am

1_08_win_mod0_xud_01
Windows: Express Down No Door Modules

Ground Distribution
- Grid Zone #11
- Grid Zone #11

Power Distribution
- LT DOORS Chk Bn (LBE)
- LRT DOORS_BT BAT

Ground Zone #1

- Gnd Dist
- Gnd Zone #1

Switch - LF Window
- 900_sw_win_rear 003
- UPC PNA

Motor Window Rear Left
- 900_motor_win_001
- UPC PNA
Windows: Express Down No Door Modules

Switch - LF Window
900_sw_win_rear 003
UPC FNA
J1-15326924

Motor-Window Rear Right
900_motor_win 001
UPC FNA
12129487

Switch-Window Rear Right
900_sw_win_rear 003
UPC FNA
15326924
Windows: Express Down 2 Door Modules

NOTE

+1 = EXPRESS BUTTONS ARE SECOND DETENT OF DIRECTION BUTTON.

Motor-Window Front Right
900_motor_win 002
UPC FNA

Motor-Window Front Left
900_motor_win 002
UPC FNA

Windows: Express Down 2 Door Modules

1_08_win_mod2_xud Panell 1 of 5
Windows: Express Down 2 Door Modules

Power Distribution
RT DOORS Ckt Bnk (MBEC)

Ground Distribution
Gnd Zone #12
Page - Gnd Dist -15

Switch-Window Rear Right
900_sw_win_rear 003
UPC: FNA

Motor-Window Rear Right
900_motor_win 001
UPC: FNA

ARE16456
09/01/2006
GM Proprietary

Monday, September 18, 2006

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

Windows: Express Down 2 Door Modules

1_08_win_mod2_xud Panel 5 of 5

PICKUP ONLY

NOTES

DUFFY "UP" & "DOWN" SIGNALS FROM THE BCM
Windows: Aux Rear

- Switch-Aux Window
  - Ground Distribution
  - Gnd Zone #10
  - Pwr Mode
  - SRC
  - YE
  - TN

- Relay-Aux Window Open
  - Ground Distribution
  - Gnd Zone #12
  - Pwr Mode
  - SRC
  - YE
  - TN

- Motor-Window
  - Ground Distribution
  - Gnd Zone #26
  - Pwr Mode
  - SRC
  - YE
  - TN

Notes:
- While power feed is 3.0 gage due to length, ground wire can be 2.0 gage as it has a much shorter length and is still protected by 20A fuse.
Wipe/Wash: Front Wipers

Power Distribution
Batt-WFHS/UBEC (Page 2)

Power Distribution
Run-SCM (via UBEC) (Page 25)

Ground Distribution
Gnd Zone 13 (Page 18)

Ground Distribution
Gnd Zone F18 (Page 22)

Switchbank-IP-Chevy/GMC
900_sw_ip_wfhs 003
UPC 9000610075500002

Switchbank-IP-Cadillac
900_sw_ip_wfhs_z75 002
UPC 9000610075500002

Wipe/Wash: Front Wipers

Wallpaper Manual – 2008 Light Duty Full Size C/K Trucks
**Wipe/Wash: Rear**

**Rear Wiper Switch**

900_sw_r_wipe003

UPC: FNA

**Power Moding/Serial Data**

BCM-Accessory Power

Page: Pwr Mode - 29

**Rear-PCB-Rear Wash**

relay, spot 004

UPC: FNA

15473007

**Motor-Rear Wash**

900_mtr_ws_wash_r

UPC: FNA

12020599

**Base:**

0.13 (0.5)

C F

266

Gnd Zone #2

**12092254**

**Ground Distribution**

Grid Zone #8

Page: Grid Dist-9

**12092078**

**Minifuse-REAR WASH**

12020599

**Ground Distribution**

Grid Zone #2

Page: Grid Dist-6

**266**

Gnd Dist

**ARE16459**

003

GM Proprietary

GMT900

Page: Panel 1 of 1

Panel Set: 1

AC25

Electrical Manual – 2008 Light Duty Full Size C/K Trucks

1.08_wipe_rr
Appendix: BCM

- Note: This Page for Reference Only. See appropriate Subsystems for connectivity.
Appendix: BCM

Note: This Page for Reference Only. See appropriate Subsystems for connectivity.
Note: This Page for Reference Only. See appropriate Subsystems for connectivity.
Appendix: BCM

Note: This Page for Reference Only. See appropriate Subsystems for connectivity.
Appendix: DDM

*Note: This Page for Reference Only. See appropriate Subsystems for connectivity.*
Appendix: DDM

Note: This Page for Reference Only. See appropriate Subsystems for connectivity.
Appendix: PDM

Note: This Page for Reference Only. See appropriate Subsystems for connectivity.
• Note: This Page for Reference Only. See appropriate Subsystems for connectivity.
Appendix: Switchbank-IP

• Note: This Page for Reference Only. See appropriate Subsystems for connectivity.
Appendix: Switchbank-IP

- Note: This Page for Reference Only. See appropriate Subsystems for connectivity.
**REAR JUNCTION BLOCK**

The tail lamp wiring on the All New C/K is routed to a junction block located at the rear of the vehicle. This junction block interfaces with the rear chassis harness and breaks out the license lamp, left turn lamp and right turn lamp connections. A schematic diagram of the Rear Junction Block and tail lamp circuits is shown on pages 3 and 4. On trucks without the Pickup Box Delete (ZW9) option, this junction block is attached to the underside of the box and therefore must be relocated when removing the box. On trucks with ZW9, this junction block is attached to the left frame rail.

The parts required to relocate the Rear Junction Block to left frame are as follows:

- Junction Block Part Number: 15304995
- Junction Block Bracket Part Number: 15031996
- Bolt/Screw (two required) Part Number: 11516885

**REAR TAIL LAMPS AND LICENSE PLATE LAMP**

The parts required to install the rear tail lamps and license plate lamp assembly are as follows:

- Tail Lamp Assembly – LH Service Part Number: 25775557
- Tail lamp Assembly – RH Service Part Number: 25775558
- Rear License Plate Lamp Assembly Service Part Number: 15154884
- Stud/plate Assembly (two required) Service Part Number: 11609856
- Nut (four required) Service Part Number: 03537772
Special Applications – Rear Junction Block / Bracket Installation – Chassis Cab and Box Delete (ZW9) Trucks

- Frame
- Slots (Frame)
- Retainers Tabs (Bracket)
- Bolt / Screw 11516588
- Bracket 1503 1996
- Junction Block 1530 4995
- Junction Block Bracket Attached to Crossmember with (1) Bolt / Screw
## Special Applications – Tail Lamps / Rear Junction Block – Chassis Cab and Box Delete (ZW9) Trucks

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25775558</td>
<td>Lamp, Tail - RH</td>
</tr>
<tr>
<td>2</td>
<td>03537772</td>
<td>Nut, Tail Lamp</td>
</tr>
<tr>
<td>3</td>
<td>25806796</td>
<td>Lens, Tail Lamp</td>
</tr>
<tr>
<td>4</td>
<td>11570316</td>
<td>Screw, Tail Lamp Lens</td>
</tr>
<tr>
<td>5</td>
<td>11570317</td>
<td>Screw, Tail Lamp Bracket</td>
</tr>
<tr>
<td>6</td>
<td>09428902</td>
<td>Bulb, Tail/Stop/Turn – 1157</td>
</tr>
<tr>
<td>7</td>
<td>09417866</td>
<td>Bulb, Backup – 1156</td>
</tr>
<tr>
<td>8</td>
<td>11609856</td>
<td>Plate, Tail Lamp Housing Stud</td>
</tr>
<tr>
<td>9</td>
<td>15304995</td>
<td>Block, Rear Lamp Wiring Harness Junction</td>
</tr>
<tr>
<td>10</td>
<td>--</td>
<td>Harness, Chassis Wiring</td>
</tr>
<tr>
<td>11</td>
<td>09421777</td>
<td>Bulb, License Plate – 97</td>
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<td>12</td>
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<td>Cover, Rear License Plate Lamp</td>
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<td>13</td>
<td>09423101</td>
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<td>14</td>
<td>03907444</td>
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<td>15</td>
<td>15154884</td>
<td>Lamp, Rear License Plate</td>
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<td>16</td>
<td>11516885</td>
<td>Screw, Rear Lamp Wiring Harness Junction Block Bracket</td>
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<td>15031996</td>
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<td>18</td>
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Electrical Manual – 2008 Light Duty Full Size C/K Trucks
Special Applications – Tail Lamps/Rear Junction Block – Chassis Cab and Box Delete (ZW9) Trucks

Left Hand Rear View
- LH Frame Rail
- LH Tail Lamp SPN 25775557
- Rear License Plate Lamp SPN 15154884
- Rear Lamp Wiring Harness Junction Block SPN 15304995

Right Hand Rear View
- RH Frame Rail
- RH Tail Lamp SPN 25775558
- Tail Lamp Housing Stud Plate SPN 11609856

Rear View
- LH Frame Rail
- LH Tail Lamp SPN 25775557
- Rear License Plate Lamp SPN 15154884
- Rear Lamp Wiring Harness Junction Block SPN 15304995
- Tail Lamp Housing Stud Plate SPN 11609856
- RH Tail Lamp SPN 25775558
Special Applications – Schematics – Rear Lamps – Chassis Cab and Box Delete (ZW9) Trucks

Rear Stop/Turn Signal Lamps

Backup Lamps and Backup Alarm

#1914955

#1914964
Special Applications – Schematics – Rear Lamps –
Chassis Cab and Box Delete (ZW9) Trucks

Right Rear Park Lamps

Left Rear Park Lamps

#1914947

#1914940
Special Applications – Schematics – Trailer –
Chassis Cab and Box Delete (ZW9) Trucks
Special Applications – Junction Block Connector X1 – Chassis Cab and Box Delete (ZW9) Trucks

Junction Block - Rear Lamps - X1
Connector Part Information

- OEM: 15317304
- Service: 15306114
- Description: 8-way F GT 280 Sealed (BU)

Terminal Part Information

- Pins: A, C, D, G, H
- Terminal/Tray: 15304716/8
- Core/Insulation Crimp: 2/1
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

- Pins: B, E
- Terminal/Tray: 15304717/8
- Core/Insulation Crimp: 4/1
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

Junction Block - Rear Lamps, X1

<table>
<thead>
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<th>Pin</th>
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<th>Circuit No.</th>
<th>Function</th>
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<td>18</td>
<td>Left Rear Stop/Turn Lamp Supply Voltage</td>
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<tr>
<td>B</td>
<td>2 BK</td>
<td>2150</td>
<td>Ground</td>
</tr>
<tr>
<td>C</td>
<td>0.8 L-GN</td>
<td>24</td>
<td>Backup Lamp Supply Voltage</td>
</tr>
<tr>
<td>D</td>
<td>0.5 BN</td>
<td>2609</td>
<td>Right Rear Park Lamps Supply Voltage</td>
</tr>
<tr>
<td>E</td>
<td>2 BK</td>
<td>1750</td>
<td>Ground</td>
</tr>
<tr>
<td>F</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>G</td>
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<td>2509</td>
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</tr>
<tr>
<td>H</td>
<td>0.5 D-GN</td>
<td>19</td>
<td>Right Rear Stop/Turn Lamp Supply Voltage</td>
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</table>
### Junction Block - Rear Lamps - X2

**Connector Part Information**
- OEM: 15317305
- Service: 15306338
- Description: 8-way F GT 280 Sealed (GY)

**Terminal Part Information**
- Pins: A, C, D, G, H
- Terminal/Tray: 15304716/8
- Core/Insulation Crimp: 2/1
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

<table>
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<th>Pin</th>
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<td>Ground</td>
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<tr>
<td>D</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>E</td>
<td>0.8 BN</td>
<td>2509</td>
<td>Left Rear Park Lamps Supply Voltage</td>
</tr>
<tr>
<td>F</td>
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<tr>
<td>G</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>G</td>
<td>0.8 BN</td>
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<td>0.8 YE</td>
<td>18</td>
<td>Left Rear Stop/Turn Lamp Supply Voltage</td>
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### Junction Block - Rear Lamps - X3

**Connector Part Information**
- OEM: 15317308
- Service: 15306135
- Description: 8-way F GT 280 Sealed 5.2 (BN)

**Terminal Part Information**
- Terminal/Tray: 15304716/8
- Core/Insulation Crimp: 4/1
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

<table>
<thead>
<tr>
<th>Pin</th>
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<td>Right Rear Park Lamps Supply Voltage</td>
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<tr>
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<td>Right Rear Park Lamps Supply Voltage (R05)</td>
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<tr>
<td>C</td>
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<td>Ground (R05)</td>
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<tr>
<td>D</td>
<td>0.5 BK</td>
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<td>Ground (R05)</td>
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<tr>
<td>E</td>
<td>0.5 BK</td>
<td>1750</td>
<td>Ground</td>
</tr>
<tr>
<td>F</td>
<td>0.5 BN</td>
<td>2509</td>
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<td>Left Rear Park Lamps Supply Voltage</td>
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<td>0.5 BK</td>
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<td>Ground</td>
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</table>
### Junction Block - Rear Lamps - X4

#### Connector Part Information

- OEM: 15317306
- Service: 15306339
- Description: 8-way F GT 280 Sealed 5.2 (BK)

#### Terminal Part Information

- Terminal/Tray: 15304716/8
- Core/Insulation Crimp: E/1
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Wire Color</th>
<th>Circuit No.</th>
<th>Function</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>0.8 BK</td>
<td>2150</td>
<td>Ground</td>
</tr>
<tr>
<td>B</td>
<td>0.8 BN</td>
<td>2609</td>
<td>Right Rear Park Lamps</td>
</tr>
<tr>
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<td></td>
<td>Supply Voltage</td>
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<tr>
<td>C-D</td>
<td>--</td>
<td>--</td>
<td>Not Used</td>
</tr>
<tr>
<td>E</td>
<td>0.8 L-GN</td>
<td>24</td>
<td>Backup Lamp Supply Voltage</td>
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<tr>
<td>F</td>
<td>0.8 D-GN</td>
<td>19</td>
<td>Right Rear Stop/Turn Lamp</td>
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