

2007 Hummer H3

2007 ACCESSORIES & EQUIPMENT Lighting - H3

2007 ACCESSORIES & EQUIPMENT

Lighting - H3

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Center High Mounted Stop Lamp (CHMSL)	2 N.m	18 lb in
Door Jamb Switch Screw - Body Side Door	2 N.m	18 lb in
Door Jamb Switch Screw - Endgate	2 N.m	18 lb in
DRL Lamp Nuts	6 N.m	53 lb in
Fog Lamp Bolts	10 N.m	89 lb in
Headlamp Bolts	10 N.m	89 lb in
High Mounted Stop Lamp Screws	3 N.m	26 lb in
License Lamp Screws	2 N.m	18 lb in
Park/Turn Lamp Nuts	6 N.m	53 lb in
Pencil Brace Bracket Screw	10 N.m	89 lb in
Rear Tail/Turn Lamp Screws	2 N.m	18 lb in

SCHEMATIC AND ROUTING DIAGRAMS

HEADLIGHTS/DAYTIME RUNNING LIGHTS (DRL) SCHEMATICS

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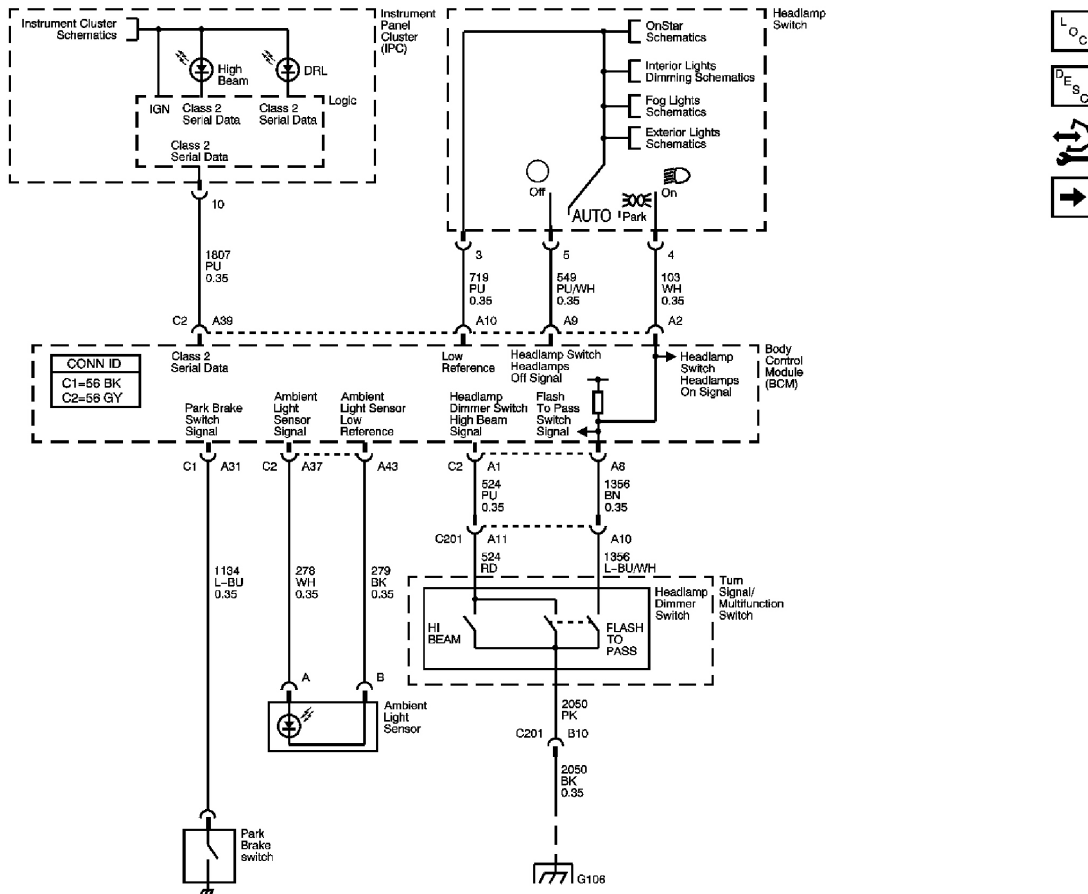


Fig. 1: Ambient Light Sensor, Headlamp Controls and Switches Schematic
 Courtesy of GENERAL MOTORS CORP.

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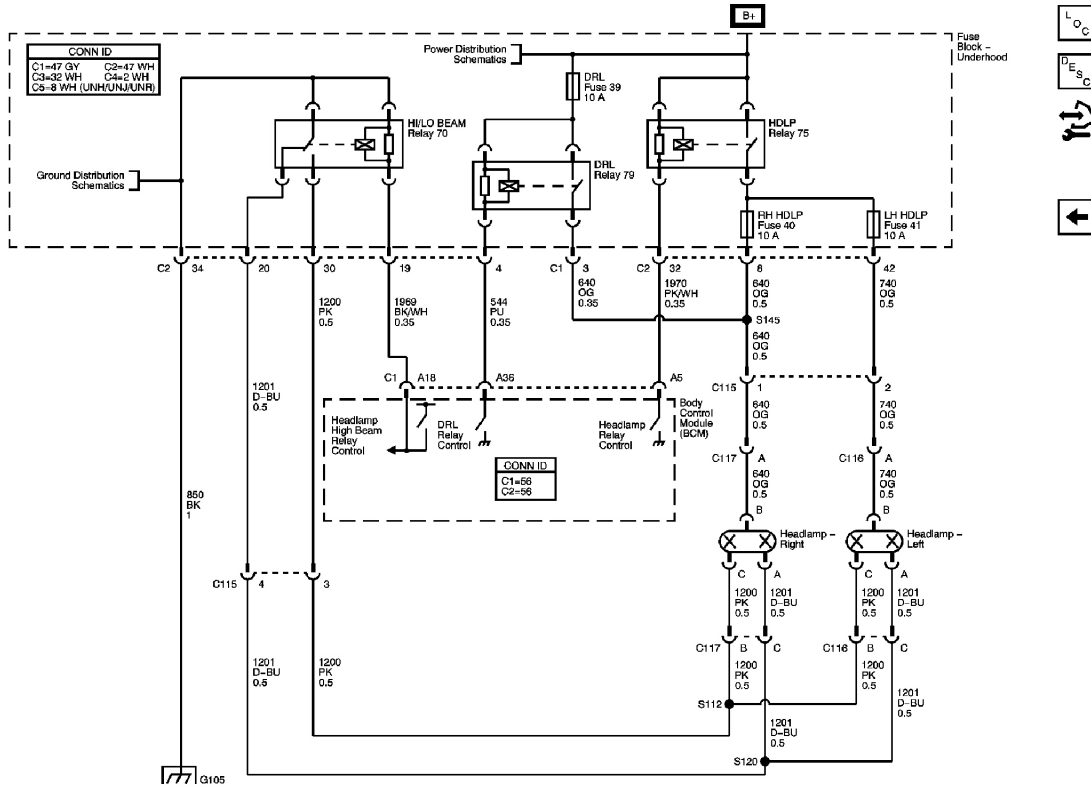


Fig. 2: Headlamps Schematic
 Courtesy of GENERAL MOTORS CORP.

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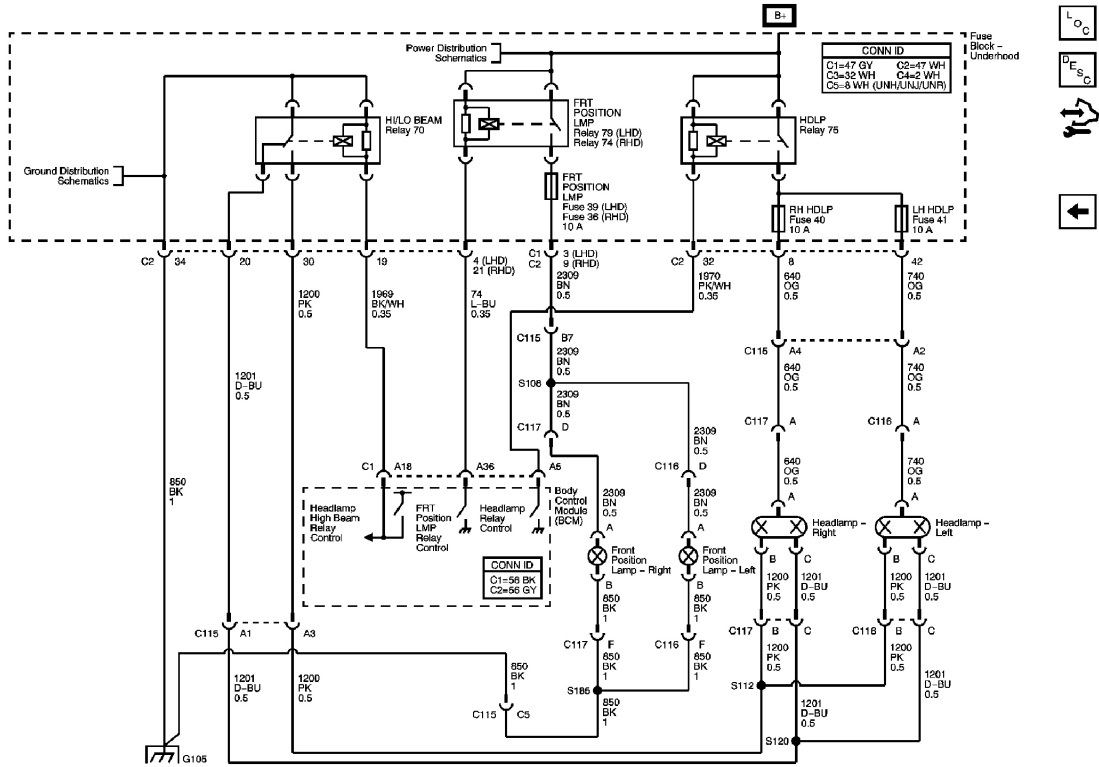


Fig. 3: Headlamps/Front Position Lamps Schematic
Courtesy of GENERAL MOTORS CORP.

FOG LIGHTS SCHEMATICS

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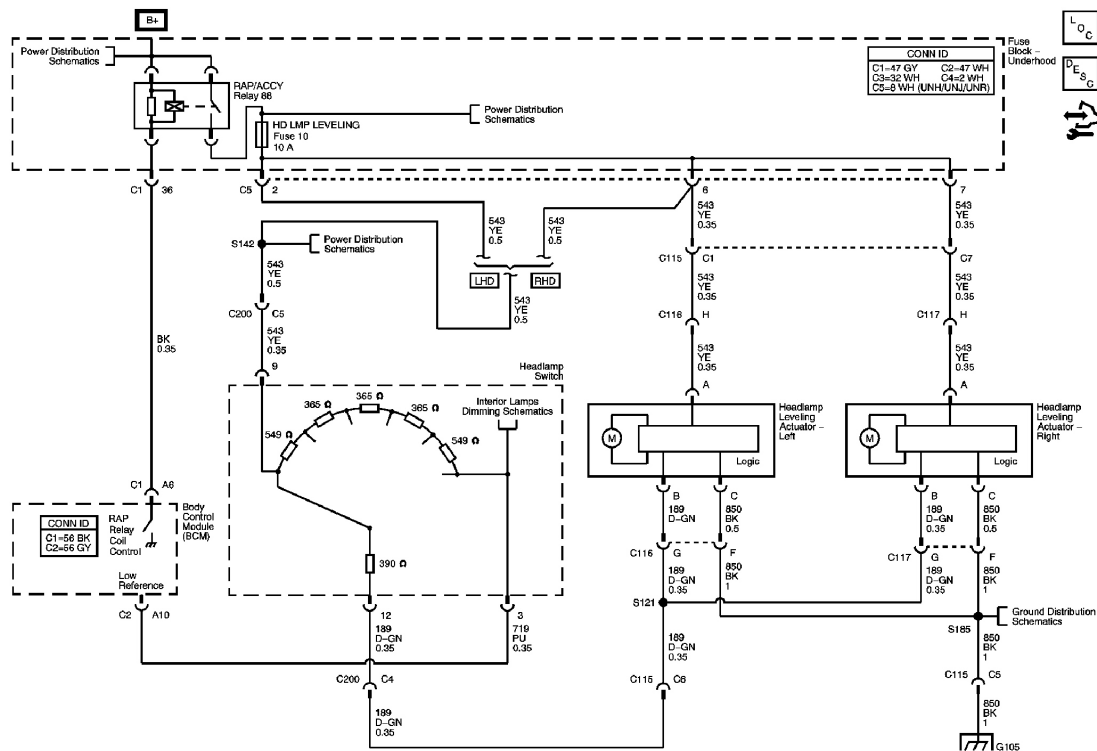


Fig. 5: Headlight Leveling Schematic
 Courtesy of GENERAL MOTORS CORP.

EXTERIOR LIGHTS SCHEMATICS

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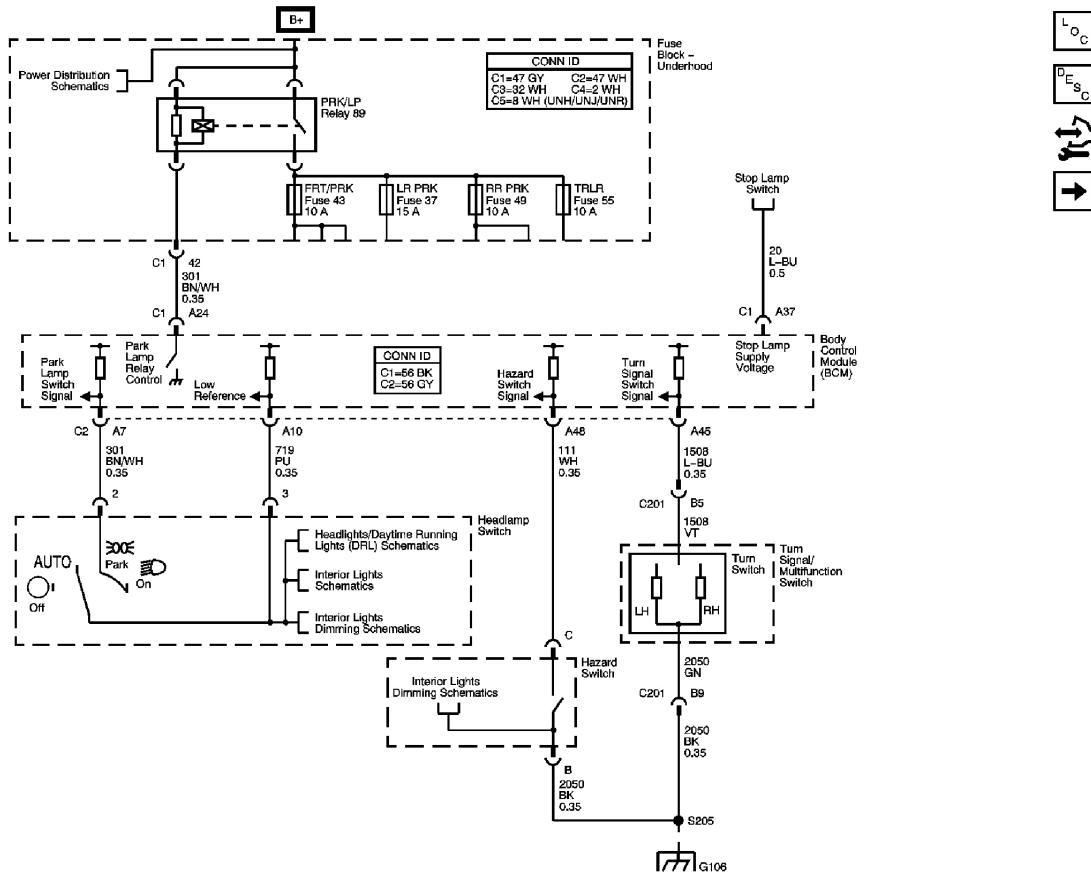


Fig. 6: Hazard Switch, Park Lamp Control and Turn Signal/Stop Lamp Inputs Schematic
 Courtesy of GENERAL MOTORS CORP.

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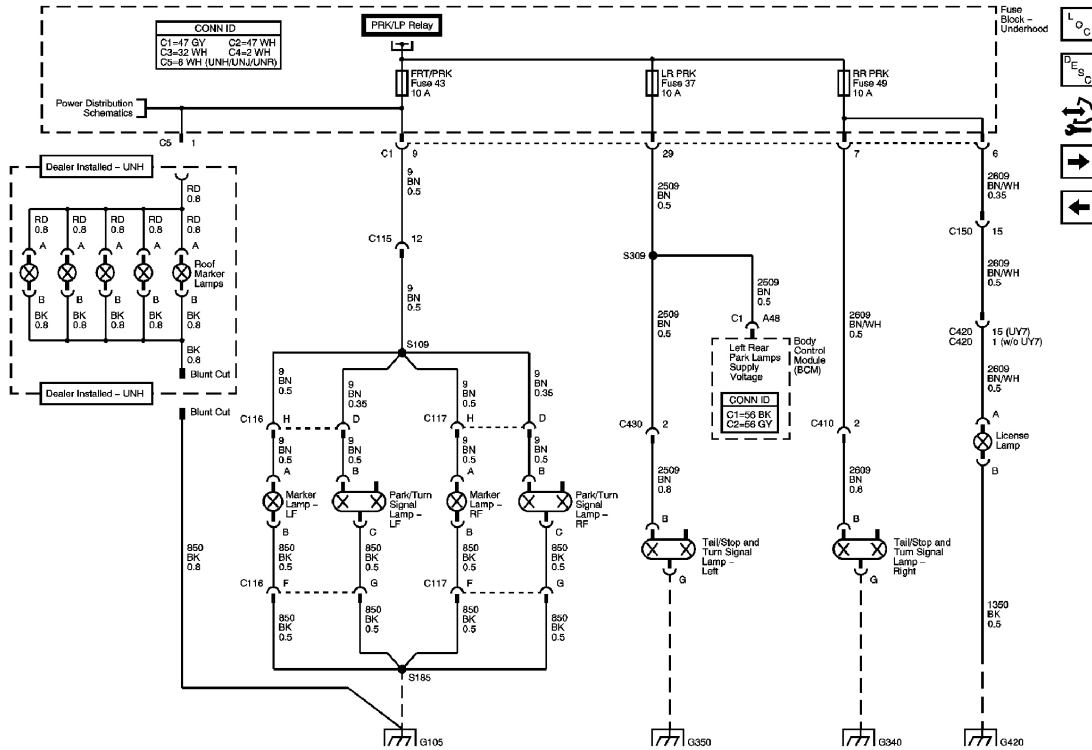


Fig. 7: Roof Marker Lamps (UNH), License Lamp and Park Lamps Schematic
 Courtesy of GENERAL MOTORS CORP.

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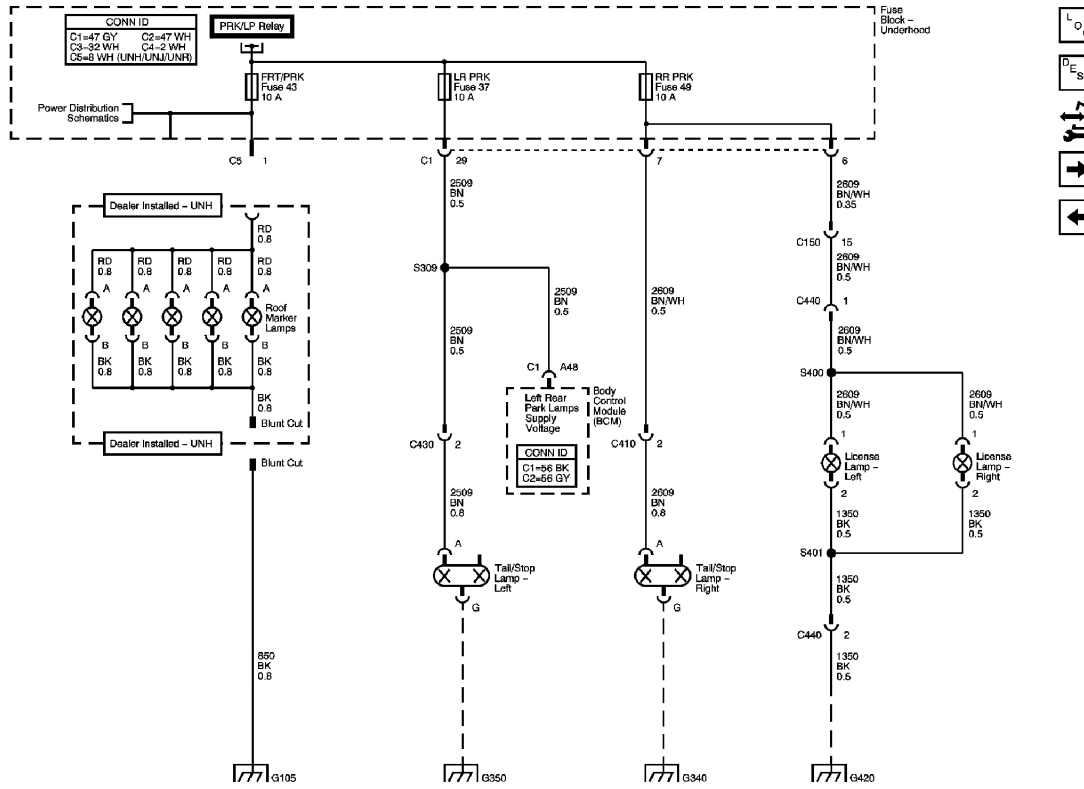


Fig. 8: Roof Marker Lamps (UNH), License Lamps and Park Lamps Schematic - Export
 Courtesy of GENERAL MOTORS CORP.

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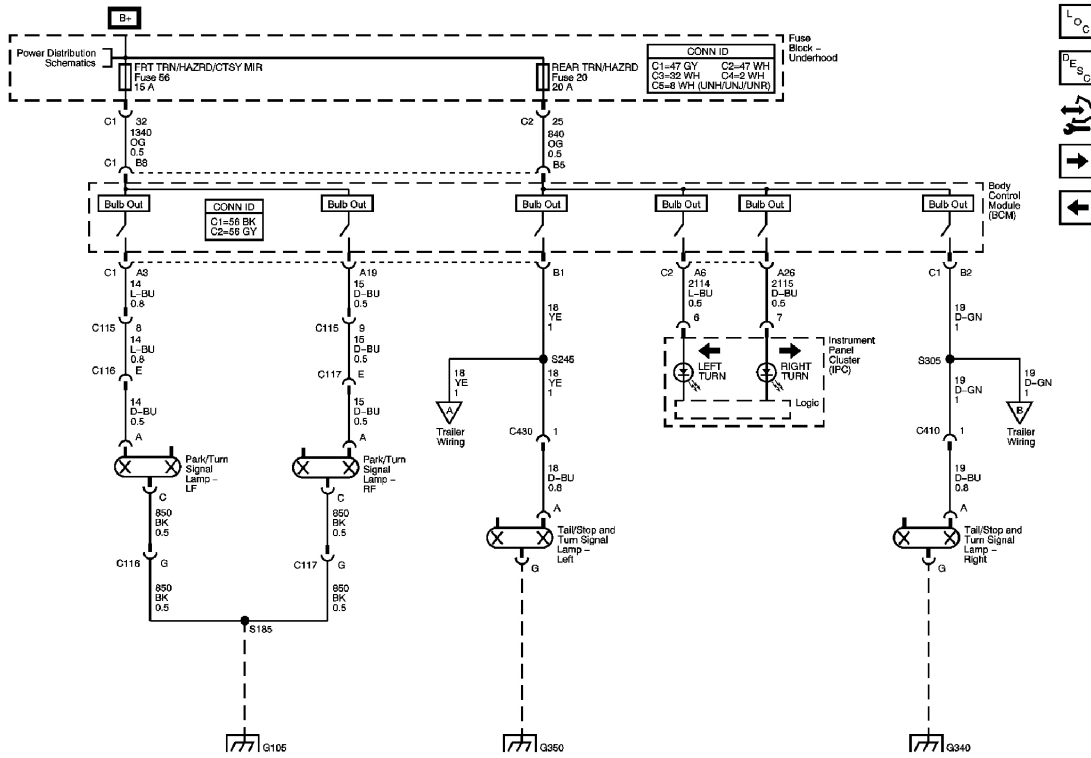


Fig. 9: Turn Signal/Stop Lamps Schematic
 Courtesy of GENERAL MOTORS CORP.

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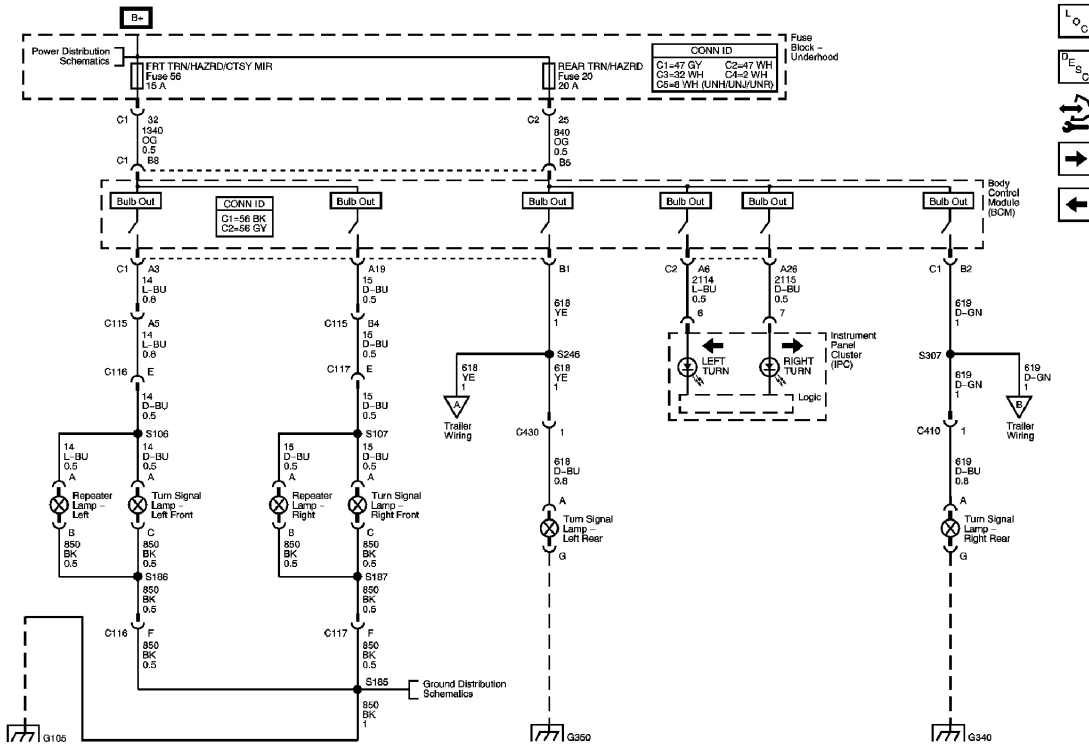


Fig. 10: Turn Signal/Hazard Lamps Schematic - Export
 Courtesy of GENERAL MOTORS CORP.

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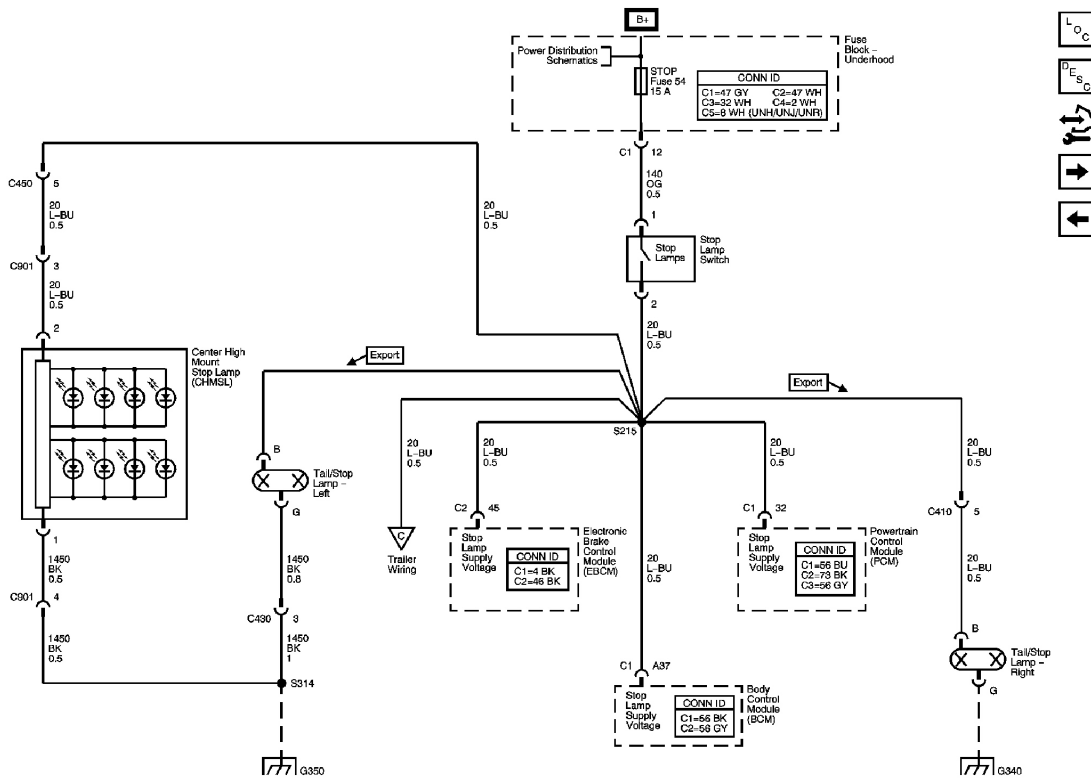


Fig. 11: Center High Mount Stop Lamps (CHMSL) and Stop Lamp Switch Schematic
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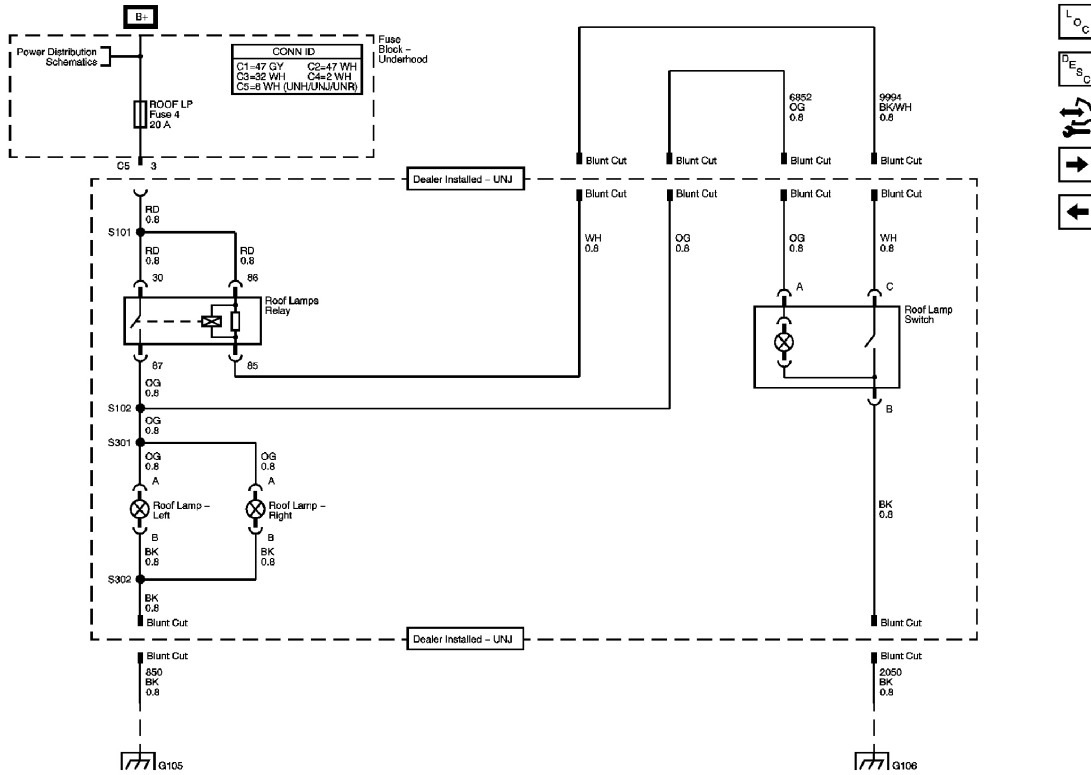


Fig. 13: Roof Mounted Off Road Lamps Schematic - UNJ
 Courtesy of GENERAL MOTORS CORP.

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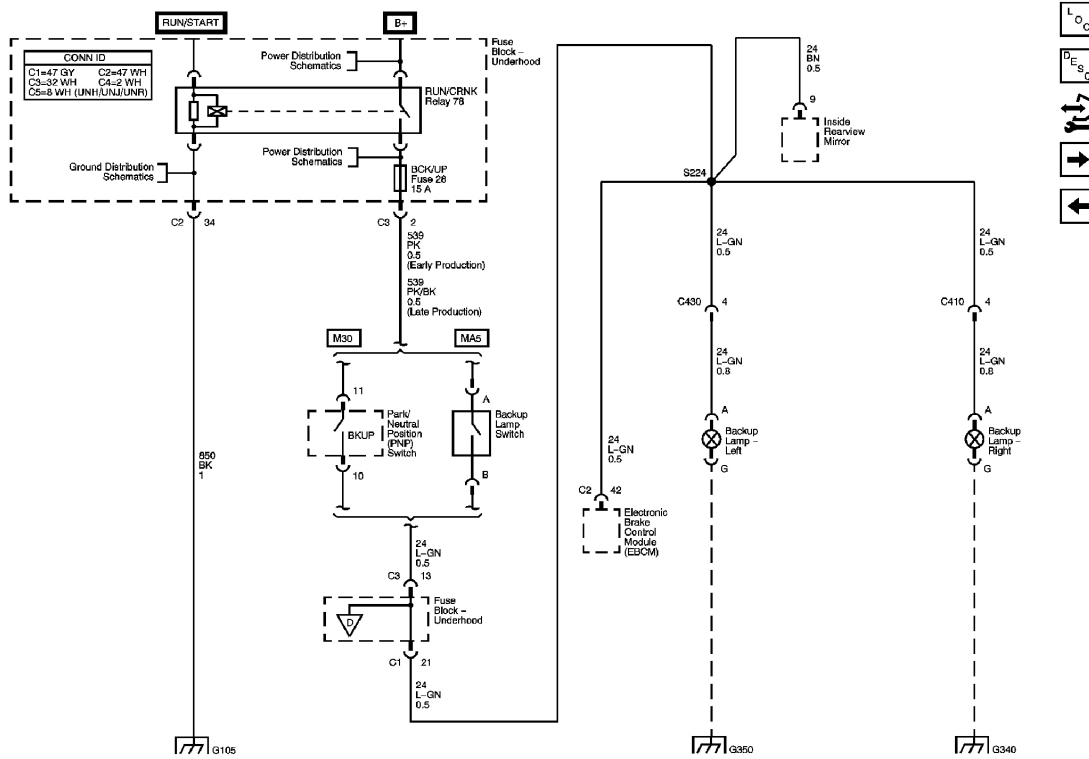


Fig. 14: Backup Lamps Schematic
 Courtesy of GENERAL MOTORS CORP.

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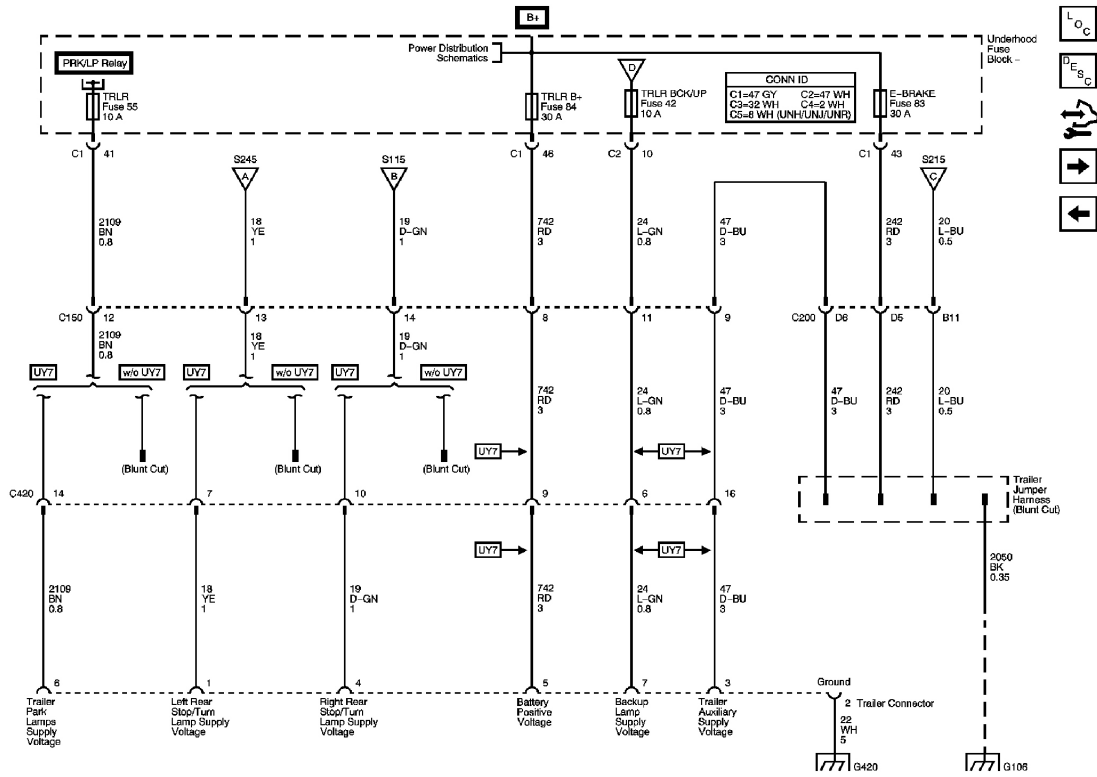


Fig. 15: Trailer Wiring Schematic
 Courtesy of GENERAL MOTORS CORP.

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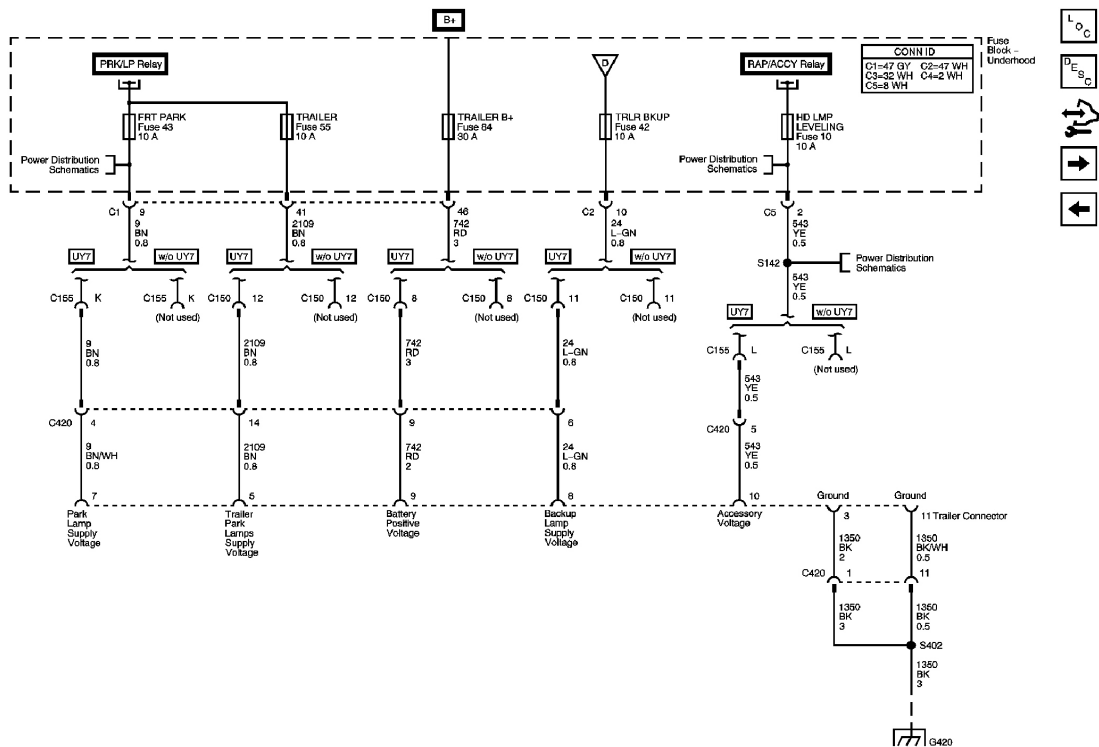


Fig. 16: Trailer Wiring Schematic - Export (1 of 2)
 Courtesy of GENERAL MOTORS CORP.

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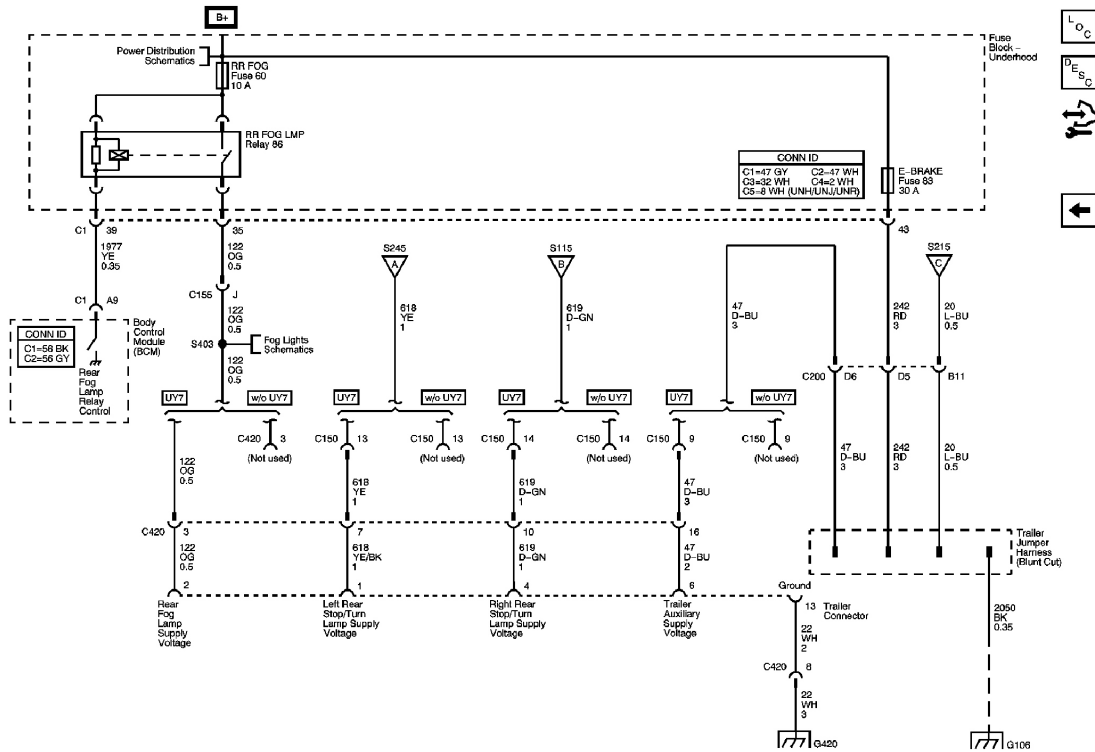


Fig. 17: Trailer Wiring Schematic - Export (2 of 2)
 Courtesy of GENERAL MOTORS CORP.

INTERIOR LIGHTS SCHEMATICS

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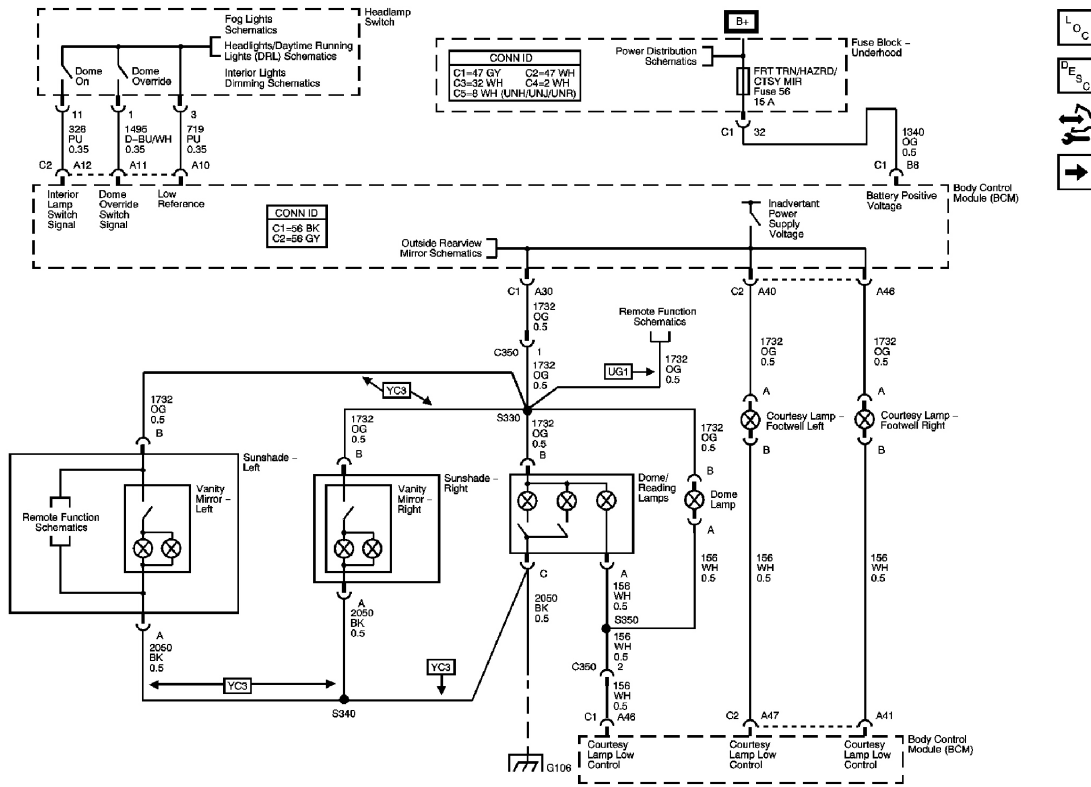


Fig. 18: Dome Lamp, Footwell Courtesy Lamps and Vanity Mirror Lamps Schematic
 Courtesy of GENERAL MOTORS CORP.

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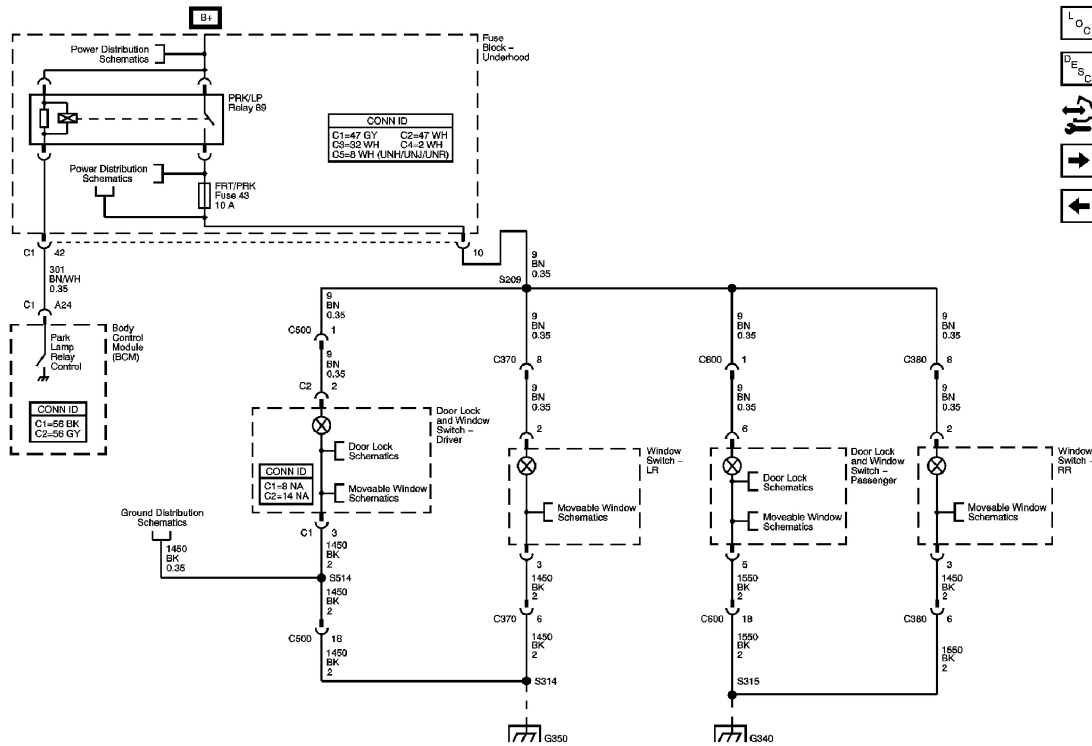


Fig. 19: Door Lock and Window Switches Schematic
 Courtesy of GENERAL MOTORS CORP.

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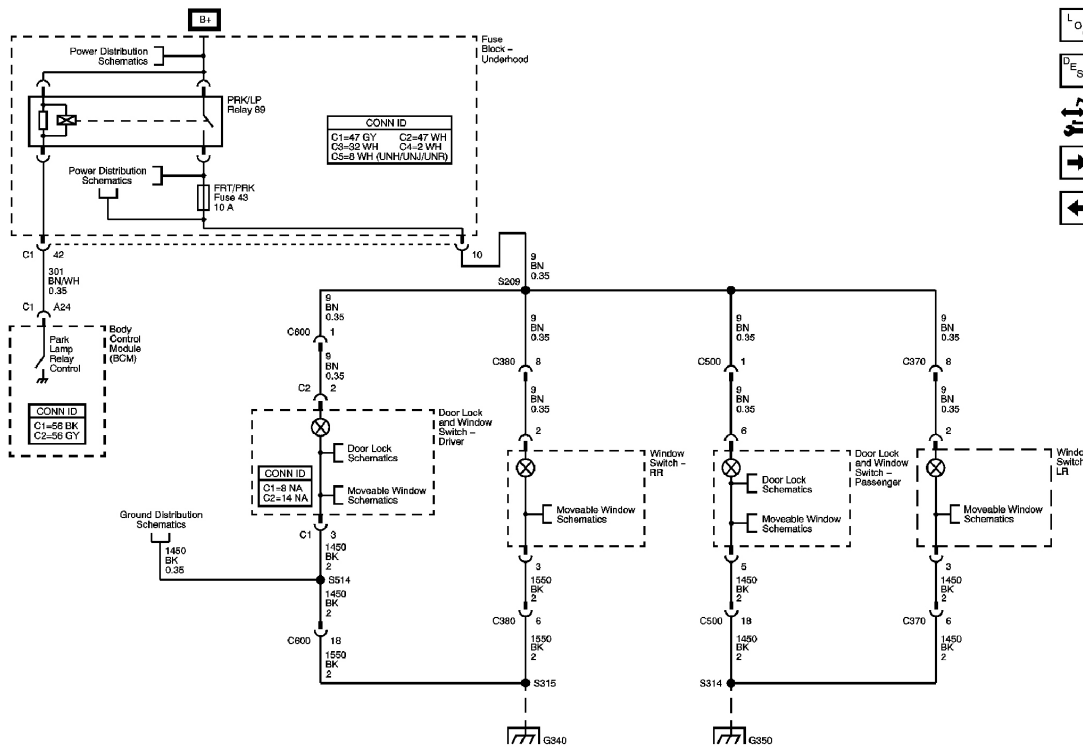


Fig. 20: Door Lock and Window Switches Schematic - RHD
 Courtesy of GENERAL MOTORS CORP.

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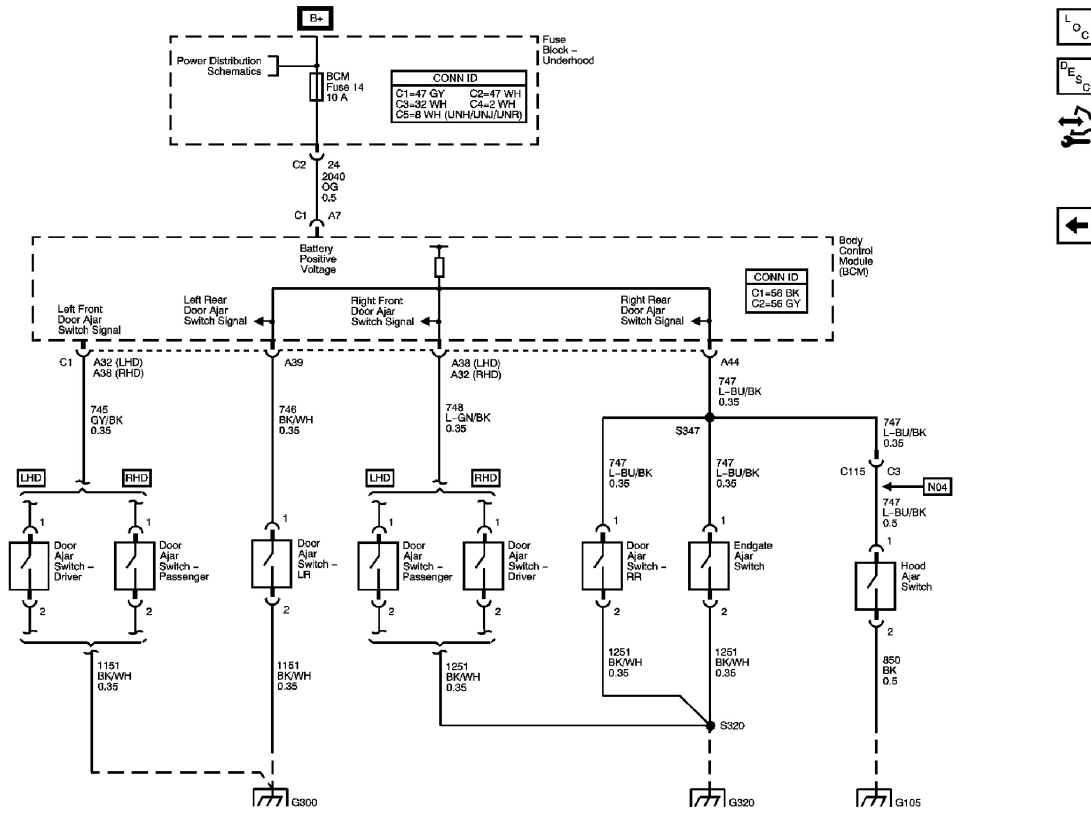


Fig. 21: Door Jamb Switches Schematic
 Courtesy of GENERAL MOTORS CORP.

INTERIOR LIGHTS DIMMING SCHEMATICS

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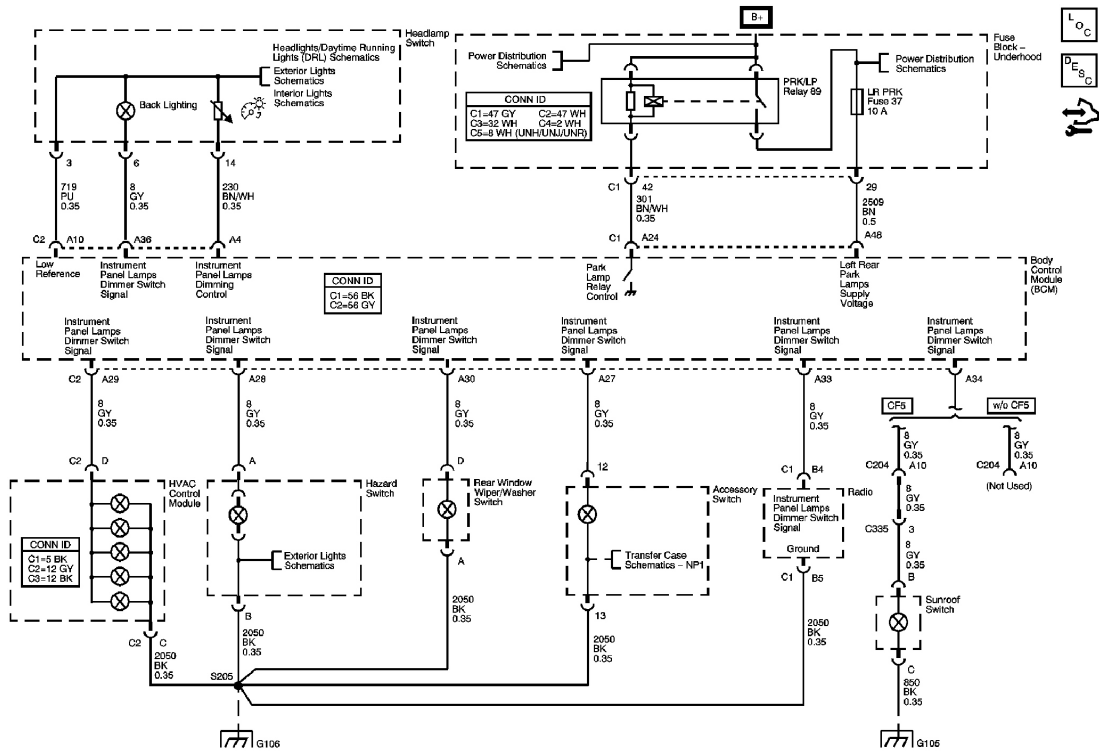


Fig. 22: Interior Lights Dimming Schematic
Courtesy of GENERAL MOTORS CORP.

COMPONENT LOCATOR

LIGHTING SYSTEMS COMPONENT VIEWS

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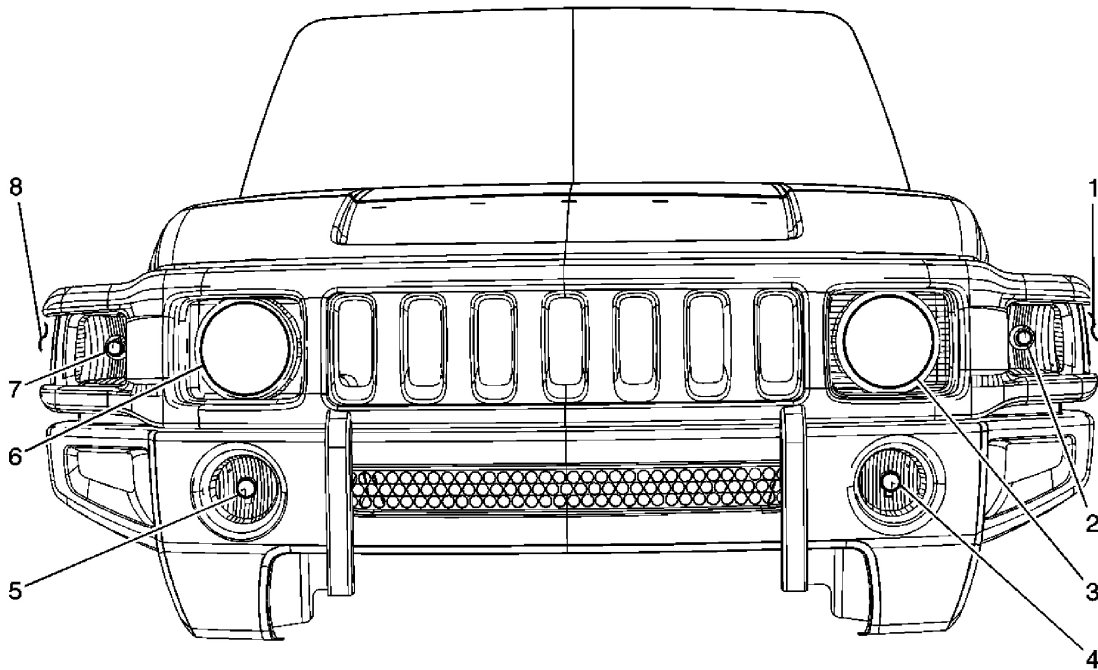


Fig. 23: Identifying Front Exterior Lights
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 23

Callout	Component Name
1	Marker Lamp - LF
2	Park/Turn Signal Lamp - LF
3	Headlamp - Left
4	Fog Lamp - Left
5	Fog Lamp - Right
6	Headlamp - Right
7	Park/Turn Signal Lamp - RF
8	Marker Lamp - RF

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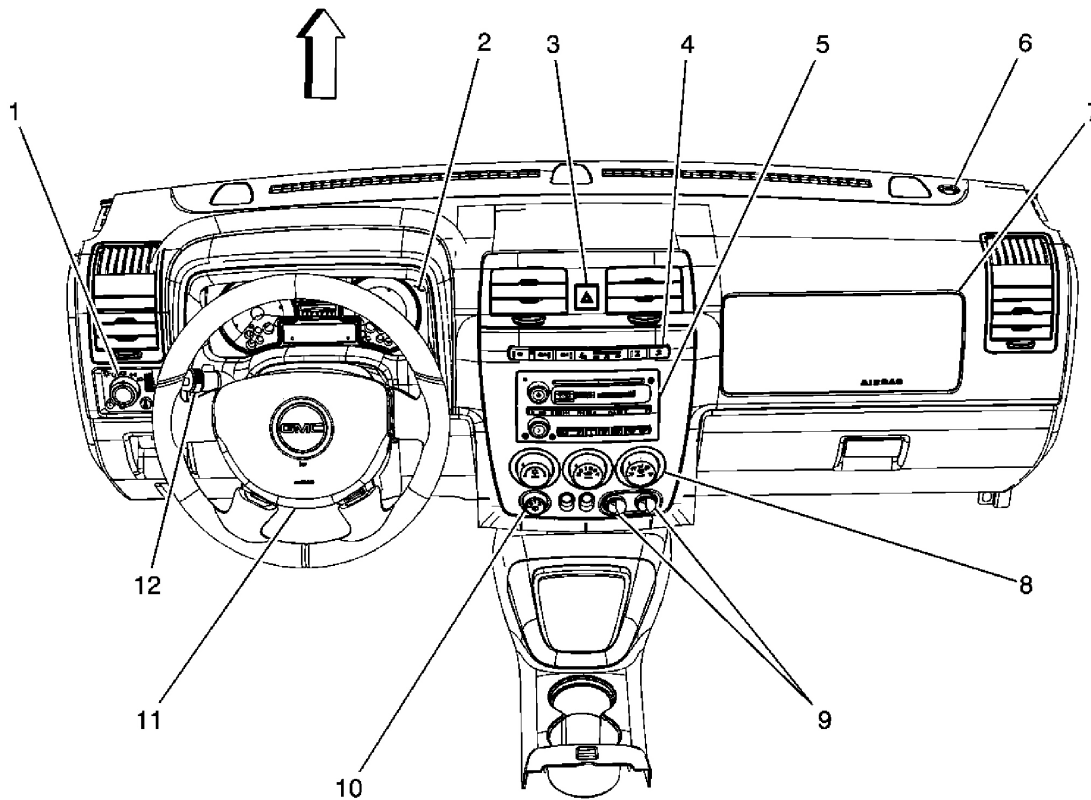


Fig. 24: Identifying I/P Harness Components
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 24

Callout	Component Name
1	Headlamp Switch
2	Instrument Panel Cluster (IPC)
3	Hazard Switch
4	Accessory Switch
5	Radio
6	Ambient Light Sensor
7	Inflatable Restraint I/P Module
8	HVAC Control Module
9	Auxiliary Power Outlets - Front
10	Rear Window Wiper/Washer Switch
11	Inflatable Restraint Steering Wheel Module
12	Turn Signal/Multifunction Switch

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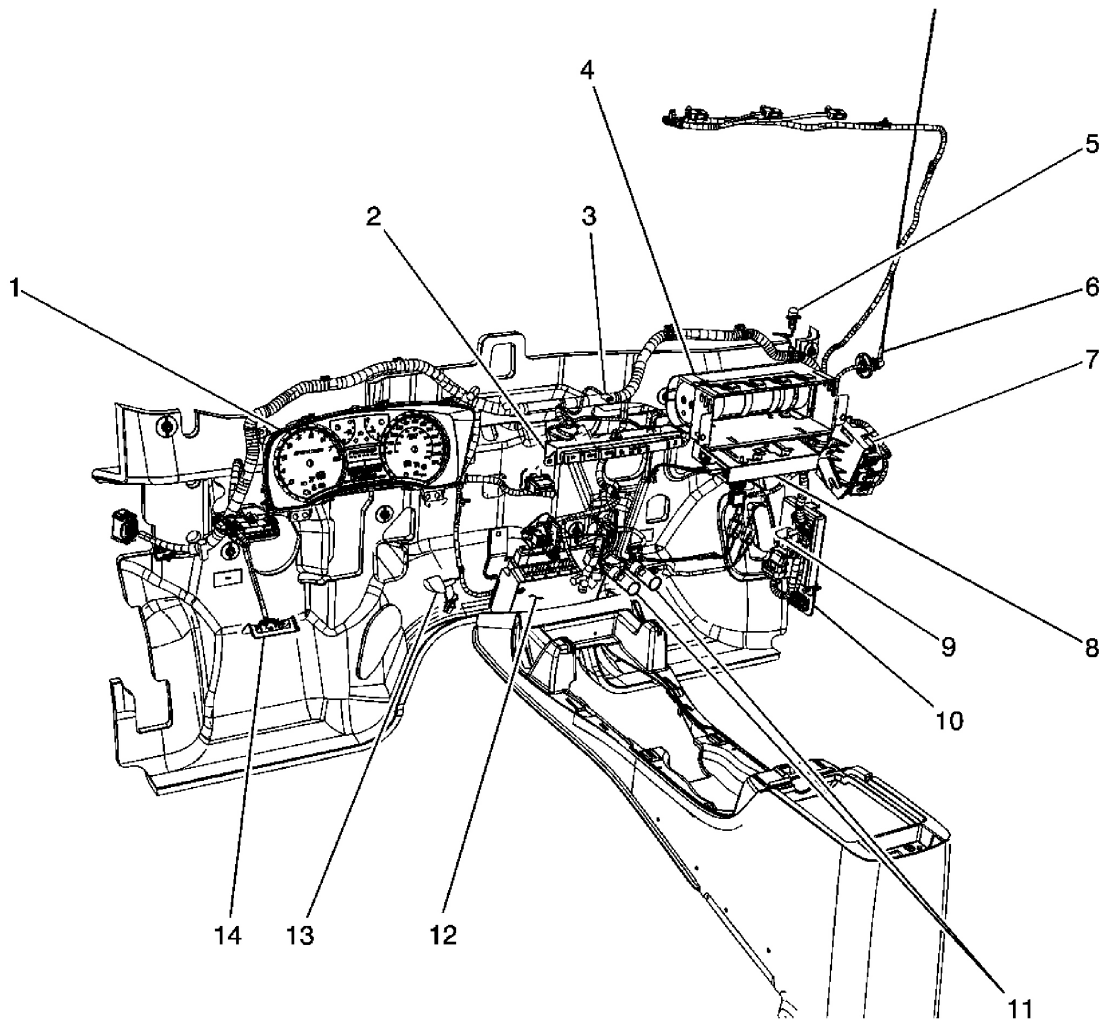


Fig. 25: Identifying I/P Harness Components
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 25

Callout	Component Name
1	Instrument Panel Cluster (IPC)
2	Accessory Switch
3	Hazard Switch
4	Inflatable Restraint I/P Module
5	Ambient Light Sensor
6	Antenna - Base
7	Transfer Case Shift Control Module
8	Digital Radio Receiver

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9	Courtesy Lamp Footwell - Right
10	Body Control Module (BCM)
11	Auxiliary Power Outlets - Front
12	Vehicle Communication Interface Module (VCIM)
13	Courtesy Lamp Footwell - Left
14	Data Link Connector (DLC)

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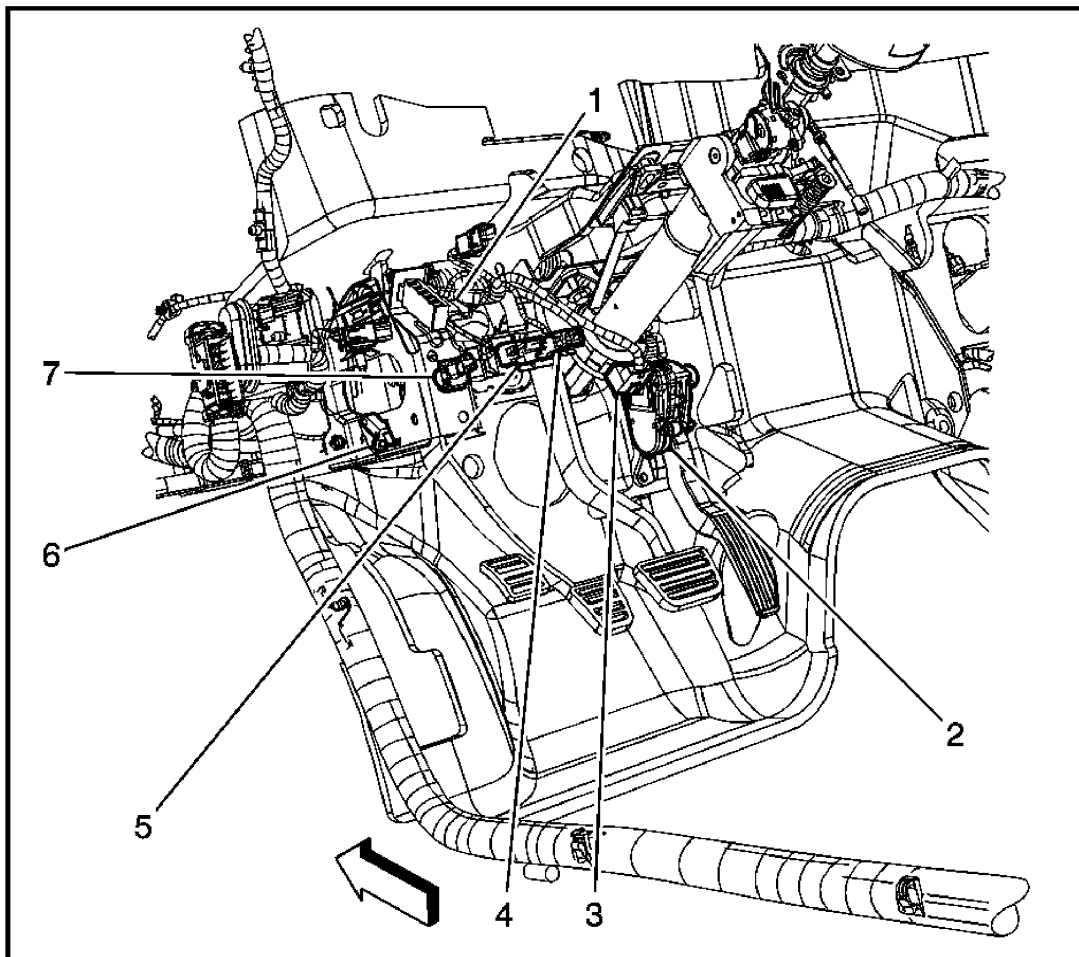
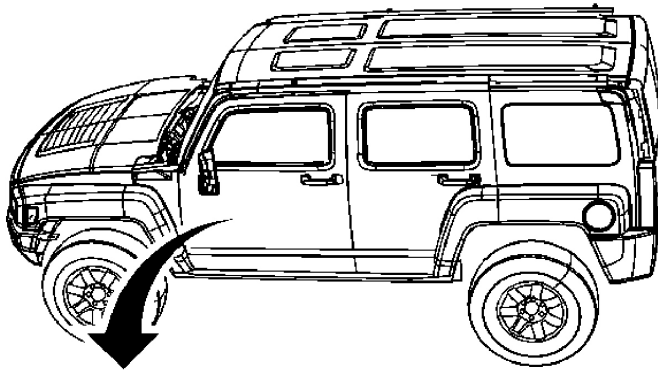


Fig. 26: View Of Lower Left Side of I/P
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 26

Callout	Component Name
1	Clutch Start Switch (MA5)

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2	Accelerator Pedal Position (APP) Sensor
3	Steering Wheel Position Sensor (JL4)
4	TCC Brake/Cruise Release Switch
5	Stop Lamp Switch
6	Park Brake Switch
7	Clutch Release Switch (MA5)

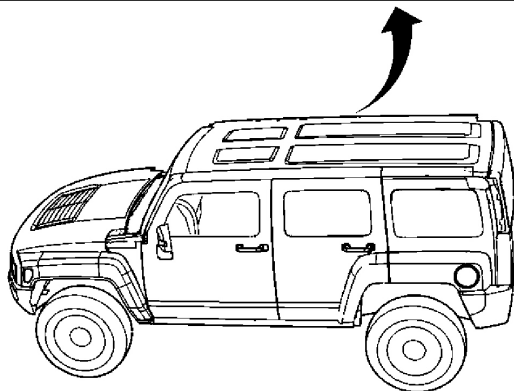
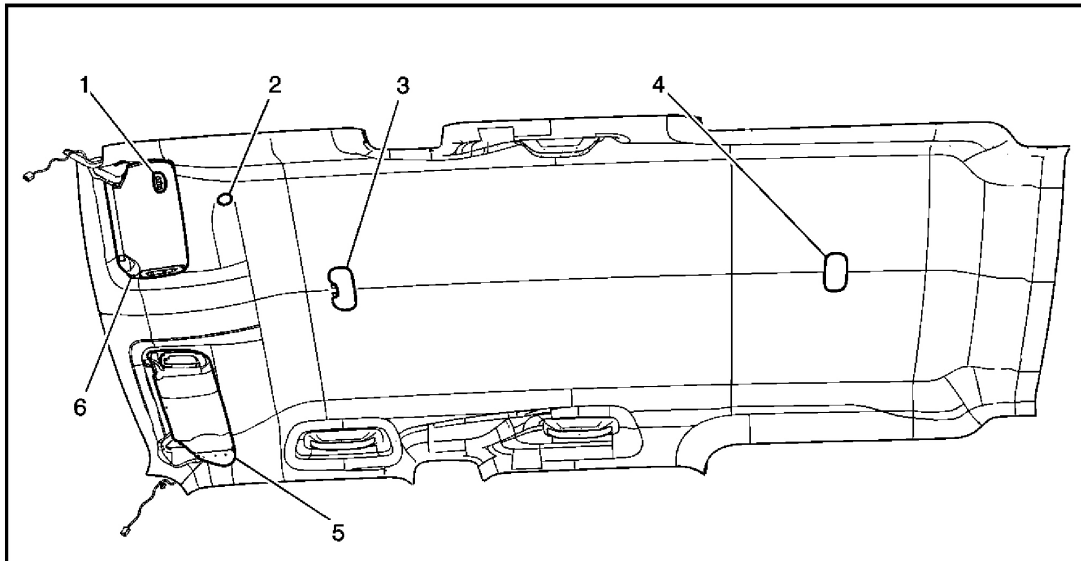


Fig. 27: Identifying Headliner Components
 Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 27

Callout	Component Name
1	Garage Door Opener
2	Cellular Microphone

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3	Dome/Reading Lamps
4	Dome Lamp
5	Sunshade - Right (YC3)
6	Sunshade - Left (YC3)

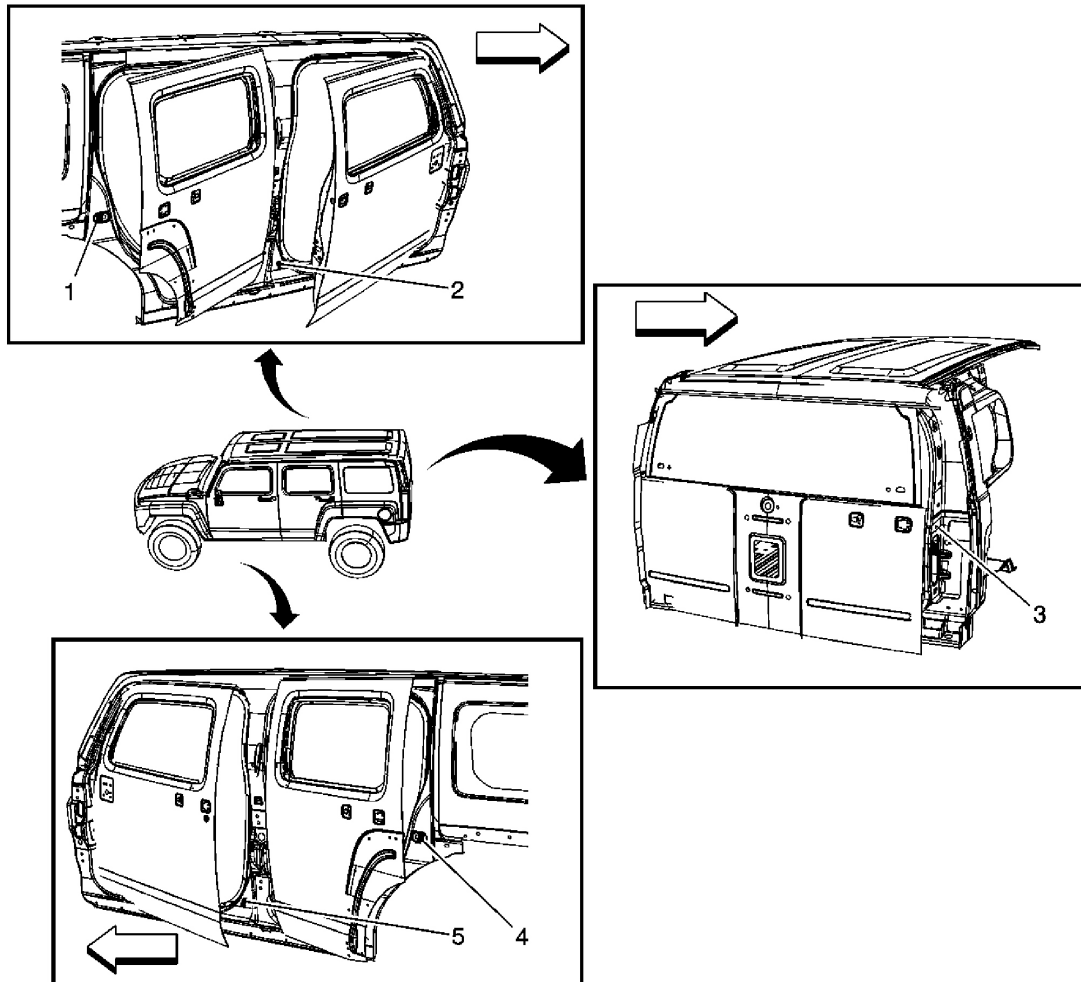


Fig. 28: Locating Door Ajar Switches
 Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 28

Callout	Component Name
1	Door Ajar Switch - RR
2	Door Ajar Switch - Passenger
3	Endgate Ajar Switch

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4	Door Ajar Switch - LR
5	Door Ajar Switch - Driver

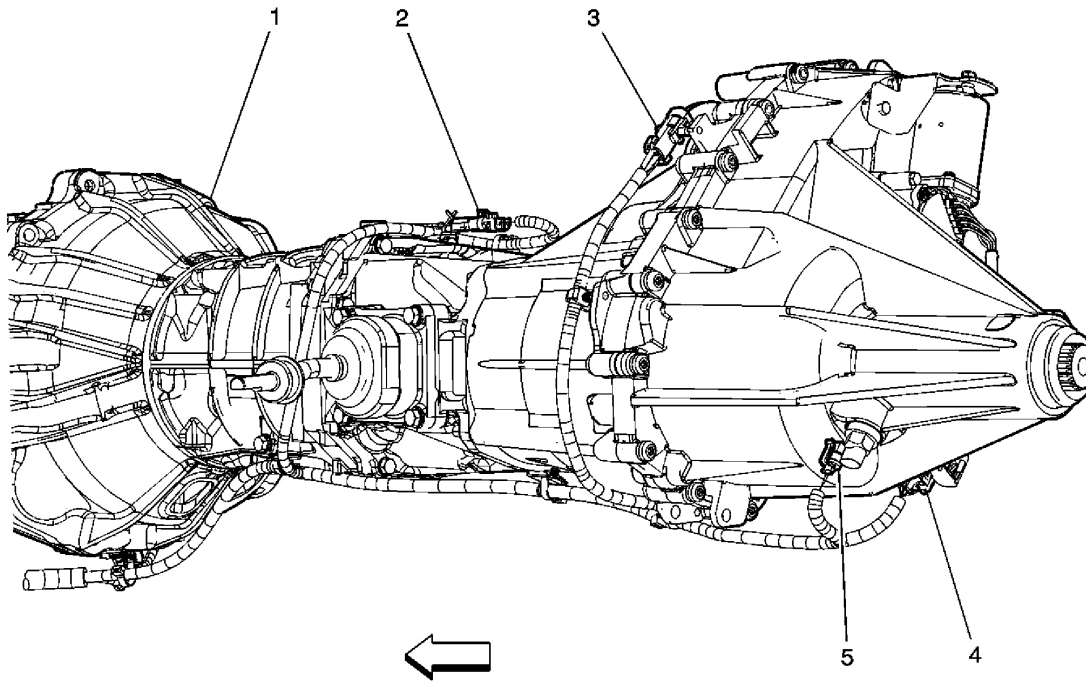


Fig. 29: Identifying Rear Engine Harness (MA5)
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 29

Callout	Component Name
1	Transmission Case
2	Backup Lamp Switch
3	Heated Oxygen Sensor (HO2S) 2
4	Transfer Case Encoder Motor Connector
5	Vehicle Speed Sensor (VSS) Connector

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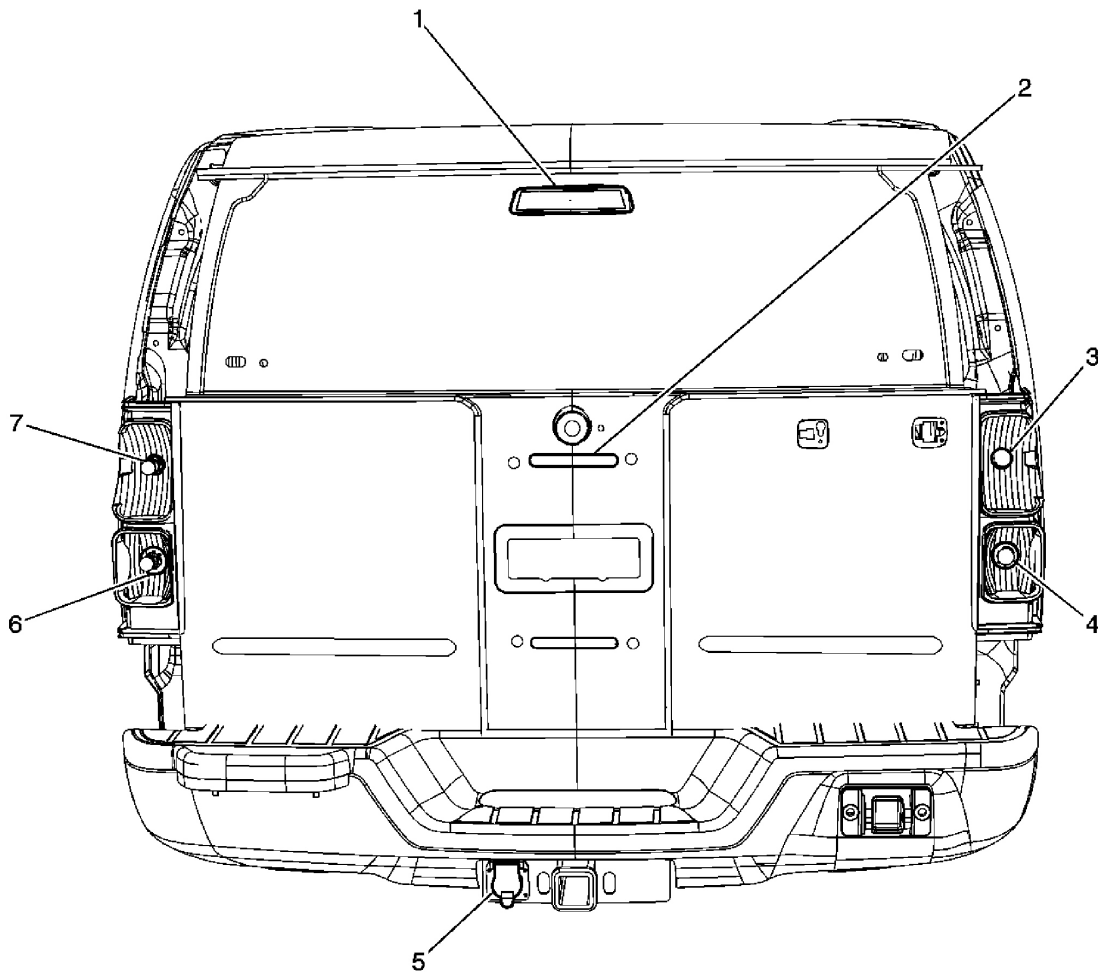


Fig. 30: Identifying Rear Exterior Lights
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 30

Callout	Component Name
1	Center High Mounted Stop Lamp (CHMSL)
2	License Lamp
3	Tail/Stop and Turn Signal Lamp - Right
4	Backup Lamp - Right
5	Trailer Connector
6	Backup Lamp - Left
7	Tail/Stop and Turn Signal Lamp - Left

Ambient Light Sensor

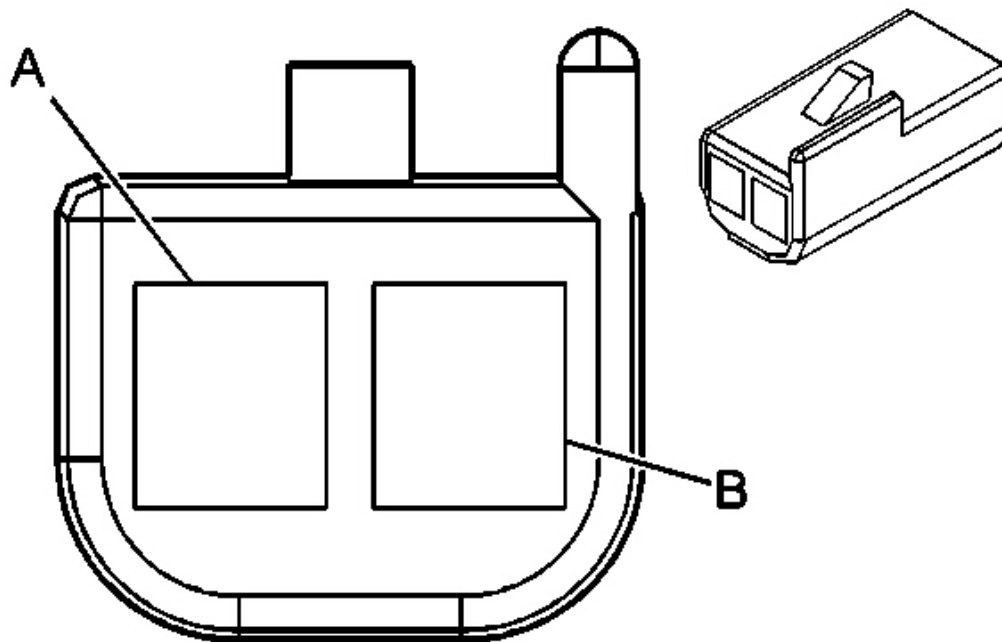


Fig. 31: Ambient Light Sensor Connector End View
Courtesy of GENERAL MOTORS CORP.

Lighting Systems Connector Parts Information

Connector Part Information

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

Terminal Part Information

- Terminal/Tray: 12064971/5
- Core/Insulation Crimp: E/C
- Release Tool/Test Probe: 12094429/J-35616-2A (GY)

Ambient Light Sensor Connector Terminal Identification

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Pin	Wire Color	Circuit No.	Function
A	WH	278	Ambient Light Sensor Signal
B	BK	279	Ambient Light Sensor Low Reference

Backup Lamp - Left

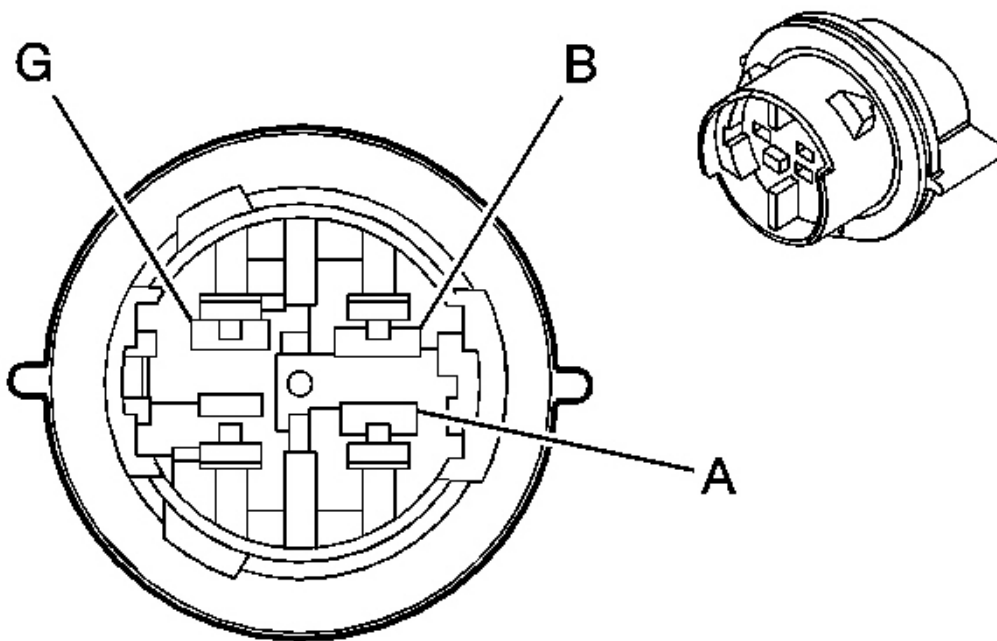


Fig. 32: Backup Lamp - Left Connector End View
 Courtesy of GENERAL MOTORS CORP.

Backup Lamp - Left Connector Parts Information

Connector Part Information
<ul style="list-style-type: none"> • OEM: 16530673 • Service: Not Serviced • Description: 3-Way F Lamp Socket (L-GY)

Backup Lamp - Left Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function

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A	L-GN	24	Backup Lamp Supply Voltage
B	-	-	Not Used
G	BK	1450	Ground

Backup Lamp - Right

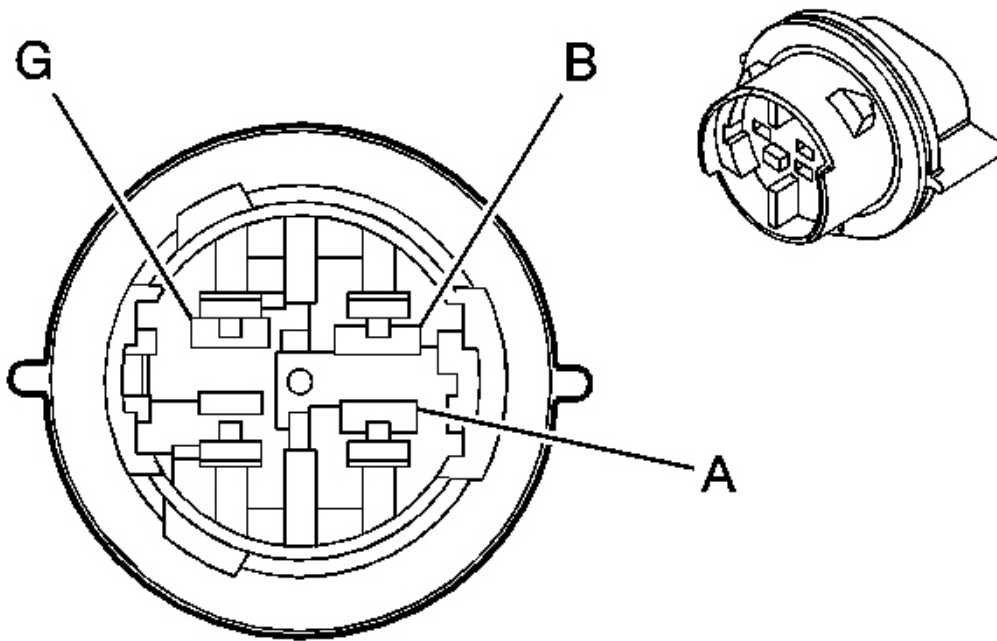


Fig. 33: Backup Lamp - Right Connector End View
 Courtesy of GENERAL MOTORS CORP.

Backup Lamp - Right Connector Parts Information

Connector Part Information	
• OEM: 16530673	
• Service: Not Serviced	
• Description: 3-Way F Lamp Socket (L-GY)	

Backup Lamp - Right Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function

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A	L-GN	24	Backup Lamp Supply Voltage
B	-	-	Not Used
G	BK	1550	Ground

Backup Lamp Switch (MA5)

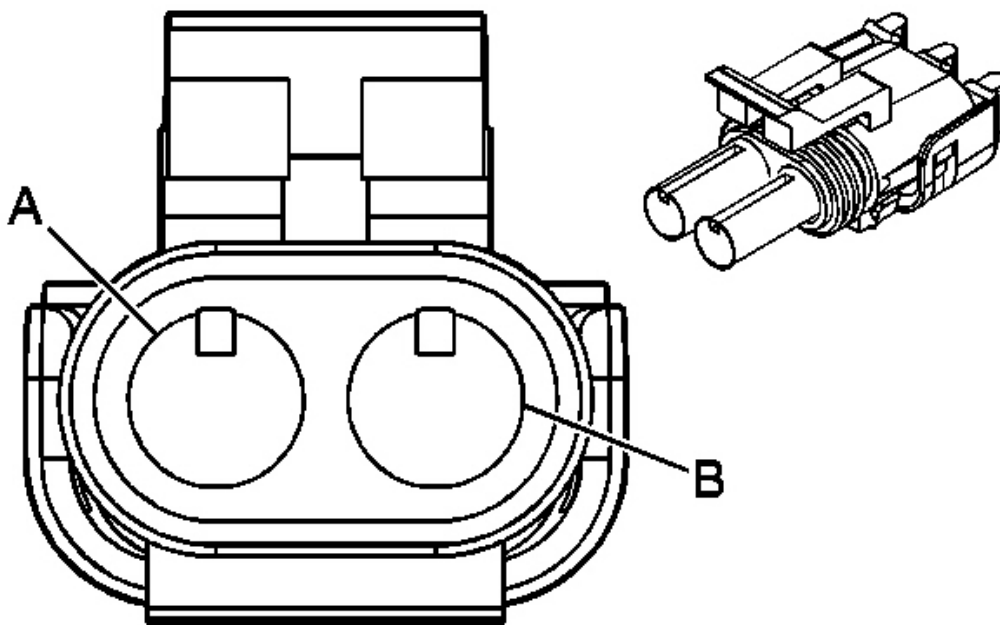


Fig. 34: Backup Lamp Switch (MA5) Connector End View
Courtesy of GENERAL MOTORS CORP.

Backup Lamp Switch (MA5) Connector Parts Information

Connector Part Information

- OEM: 12103584
- Service: 12085485
- Description: 2-Way M Weather Pack Tower Series, Sealed (BN)

Terminal Part Information

- Terminal/Tray: 12089040/3

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- Core/Insulation Crimp: E/5
- Release Tool/Test Probe: 12014012-1/J-35616-9 (OG)

Backup Lamp Switch (MA5) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	PK	539	Ignition 1 Voltage
B	L-GN	24	Backup Lamp Supply Voltage

Center High Mount Stop Lamp (CHMSL)

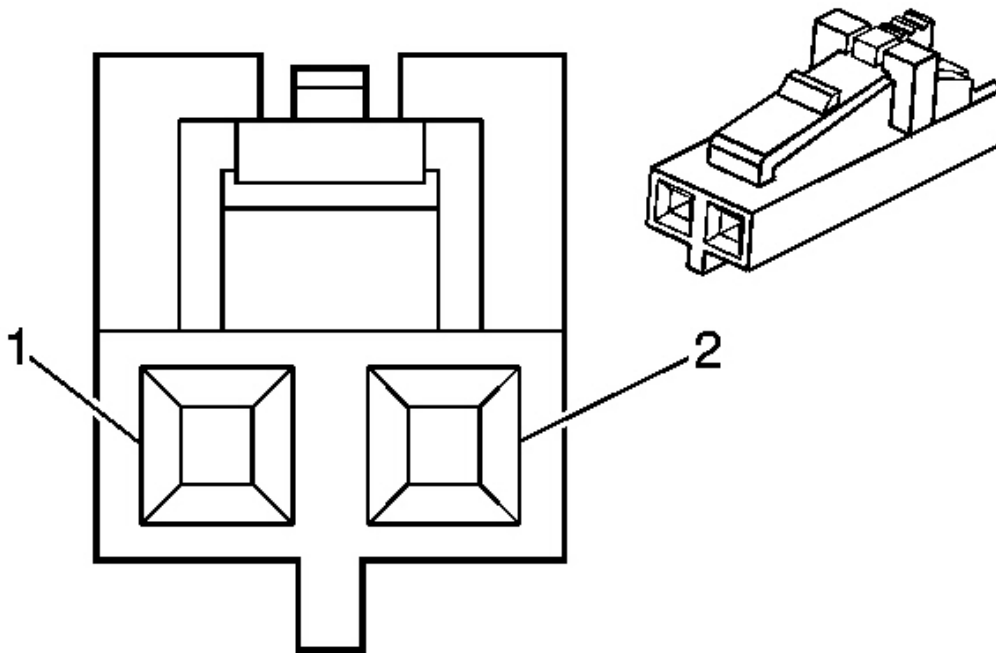


Fig. 35: Center High Mount Stop Lamp (CHMSL) Connector End View
Courtesy of GENERAL MOTORS CORP.

Center High Mount Stop Lamp (CHMSL) Connector Parts Information

Connector Part Information

- OEM: 43645-0200

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- Service: 88988705
- Description: 2-Way F Micro Fit (3.0) (BK)

Terminal Part Information

- Terminal/Tray: 43030-0010/23
- Core/Insulation Crimp: H/H
- Release Tool/Test Probe: J-38125-213/J-35616-64A (L-BU)

Center High Mount Stop Lamp (CHMSL) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
1	BK	1450	Ground
2	L-BU	20	Stop Lamp Supply Voltage

Courtesy Lamp - Footwell Left

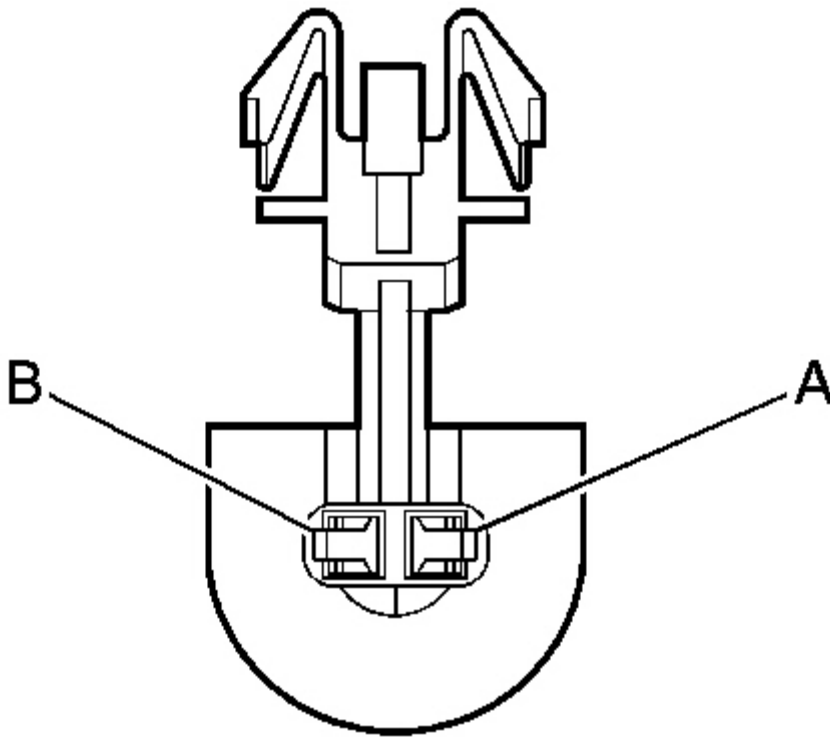


Fig. 36: Courtesy Lamp - Footwell Left Connector End View
Courtesy of GENERAL MOTORS CORP.

Courtesy Lamp - Footwell Left Connector Parts Information

Connector Part Information

- OEM: 15437400
- Service: See Catalog
- Description: 2-Way F Lamp Socket Wedge (BK)

Terminal Part Information

- Terminal/Tray: Service w/Pigtail
- Release Tool/Test Probe: See Terminal Kit

Courtesy Lamp - Footwell Left Connector Terminal Identification

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Pin	Wire Color	Circuit No.	Function
A	OG	1732	Inadvertent Power Supply Voltage
B	WH	156	Courtesy Lamp Low Control

Courtesy Lamp - Footwell Right

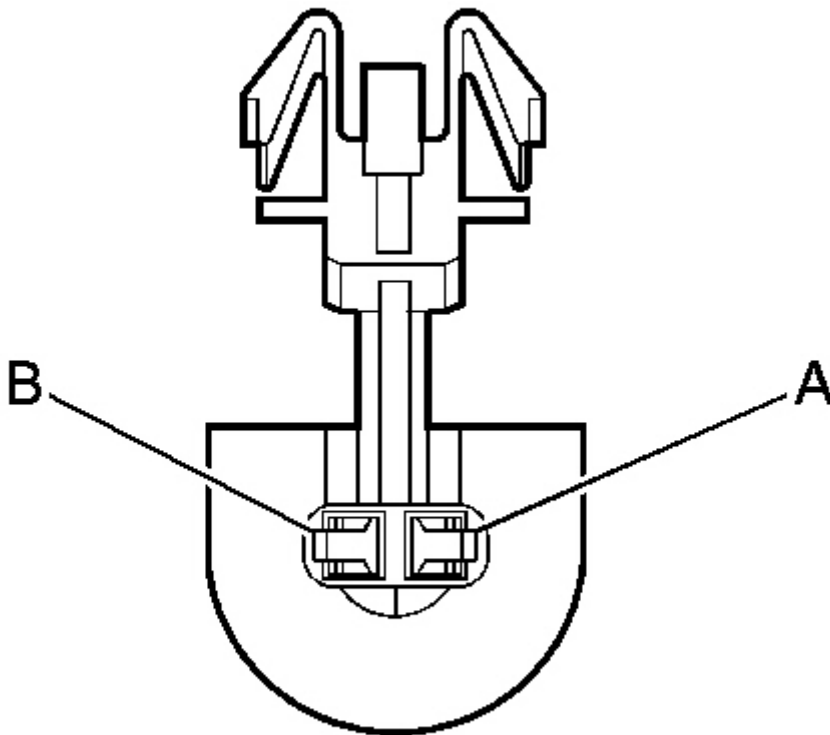


Fig. 37: Courtesy Lamp - Footwell Right Connector End View
Courtesy of GENERAL MOTORS CORP.

Courtesy Lamp - Footwell Right Connector Parts Information

Connector Part Information

- OEM: 15437400
- Service: See Catalog
- Description: 2-Way F Lamp Socket Wedge (BK)

Terminal Part Information

- Terminal/Tray: Service w/Pigtail
- Release Tool/Test Probe: See Terminal Kit

Courtesy Lamp - Footwell Right Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	OG	1732	Inadvertent Power Supply Voltage
B	WH	156	Courtesy Lamp Low Control

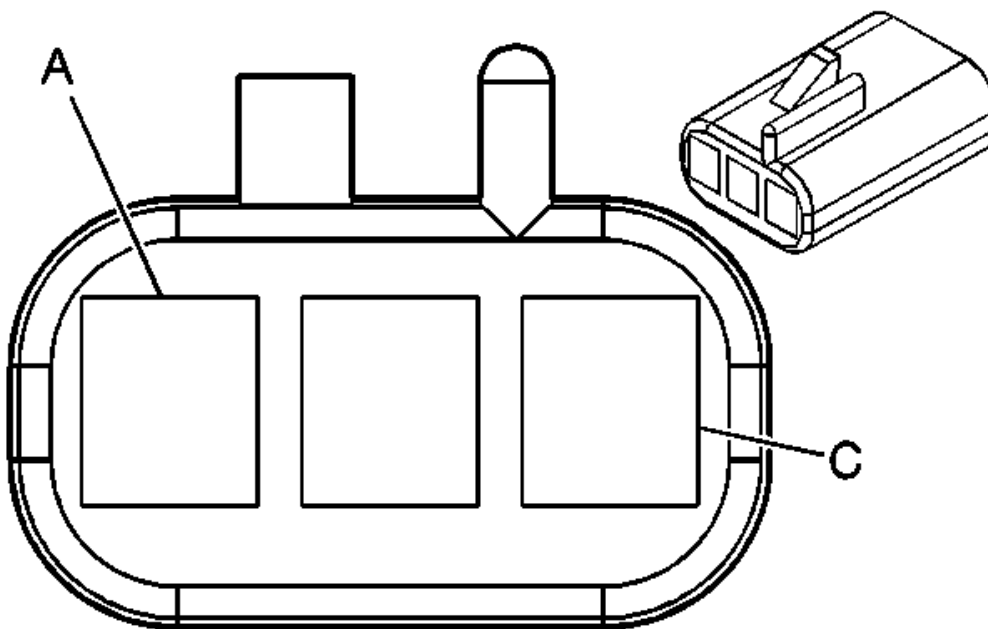
Dome Lamp

Fig. 38: Dome Lamp Connector End View
Courtesy of GENERAL MOTORS CORP.

Dome Lamp Connector Parts Information**Connector Part Information**

- OEM: 12047781
- Service: 12101864
- Description: 3-Way F Metri-Pack 150 Series (BK)

Terminal Part Information

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- Terminal/Tray: 12064971/5
- Core/Insulation Crimp: E/C
- Release Tool/Test Probe: 12094429/J-35616-2A (GY)

Dome Lamp Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	OG	1732	Inadvertent Power Supply Voltage
B	WH	156	Courtesy Lamp Low Control
C	-	-	Not Used

Dome/Reading Lamps

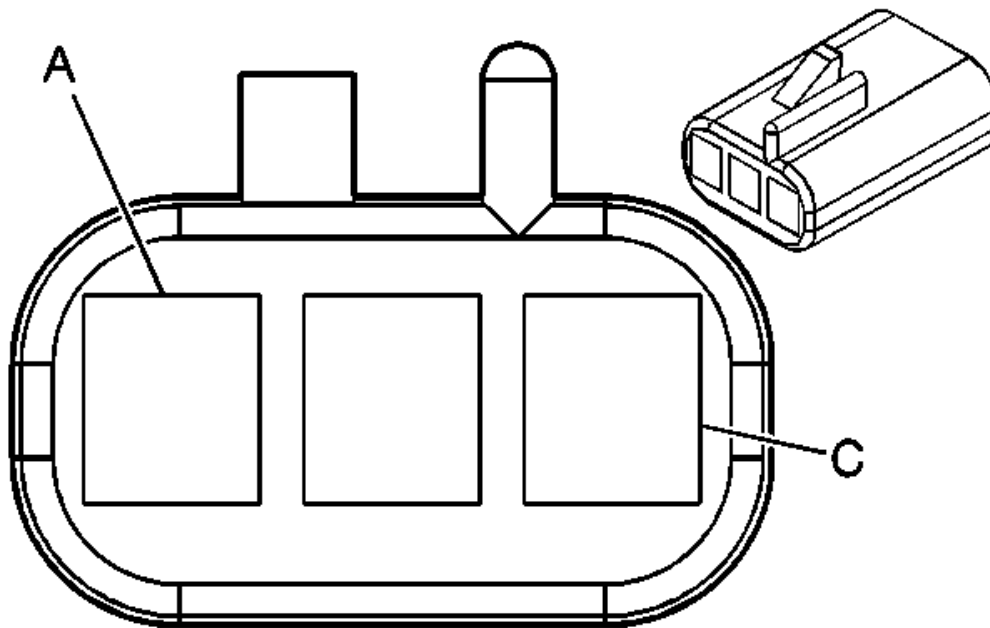


Fig. 39: Dome/Reading Lamps Connector End View
Courtesy of GENERAL MOTORS CORP.

Dome/Reading Lamps Connector Parts Information

Connector Part Information

- OEM: 12047781
- Service: 12101864
- Description: 3-Way F Metri-Pack 150 Series (BK)

Terminal Part Information

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- Terminal/Tray: 12064971/5
- Core/Insulation Crimp: E/C
- Release Tool/Test Probe: 12094429/J-35616-2A (GY)

Dome/Reading Lamps Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	WH	156	Courtesy Lamp Low Control
B	OG	1732	Inadvertent Power Supply Voltage
C	BK	2050	Ground

Door Ajar Switch - Driver

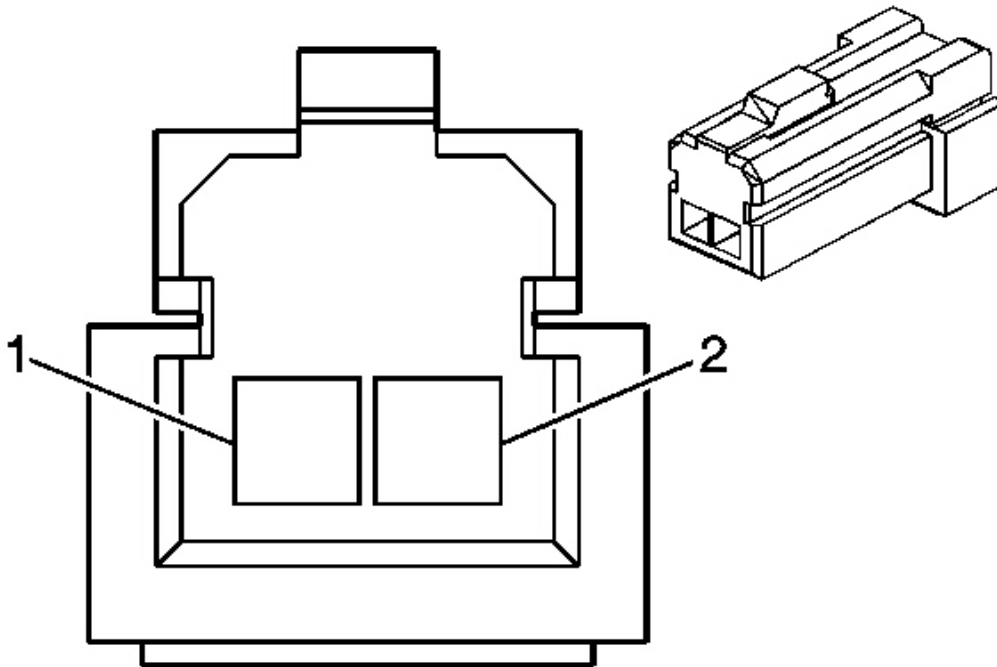


Fig. 40: Door Ajar Switch - Driver Connector End View
Courtesy of GENERAL MOTORS CORP.

Door Ajar Switch - Driver Connector Parts Information

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Connector Part Information

- OEM: 174056-2
- Service: 15306434
- Description: 2-Way F MultiLock 040 (BK)

Terminal Part Information

- Terminal/Tray: 173681-2/17
- Core/Insulation Crimp: E/4
- Release Tool/Test Probe: 15315247/J-35616-16 (L-GN)

Door Ajar Switch - Driver Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
1	GY/BK	745	Left Front Door Ajar Switch Signal
2	BK/WH	1151	Ground

Door Ajar Switch - Passenger

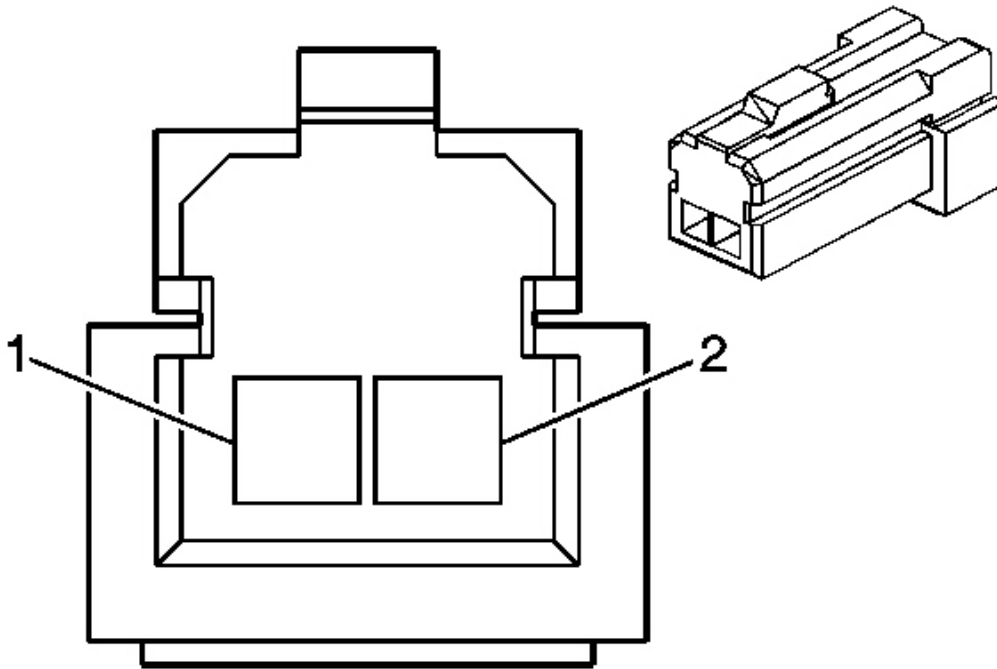


Fig. 41: Door Ajar Switch - Passenger Connector End View
 Courtesy of GENERAL MOTORS CORP.

Door Ajar Switch - Passenger Connector Parts Information

Connector Part Information

- OEM: 174056-2
- Service: 15306434
- Description: 2-Way F MultiLock 040 (BK)

Terminal Part Information

- Terminal/Tray: 173681-2/17
- Core/Insulation Crimp: E/4
- Release Tool/Test Probe: 15315247/J-35616-16 (L-GN)

Door Ajar Switch - Passenger Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
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1	L-GN/BK	748	Right Front Door Ajar Switch Signal
2	BK/WH	1251	Ground

Door Ajar Switch - Left Rear

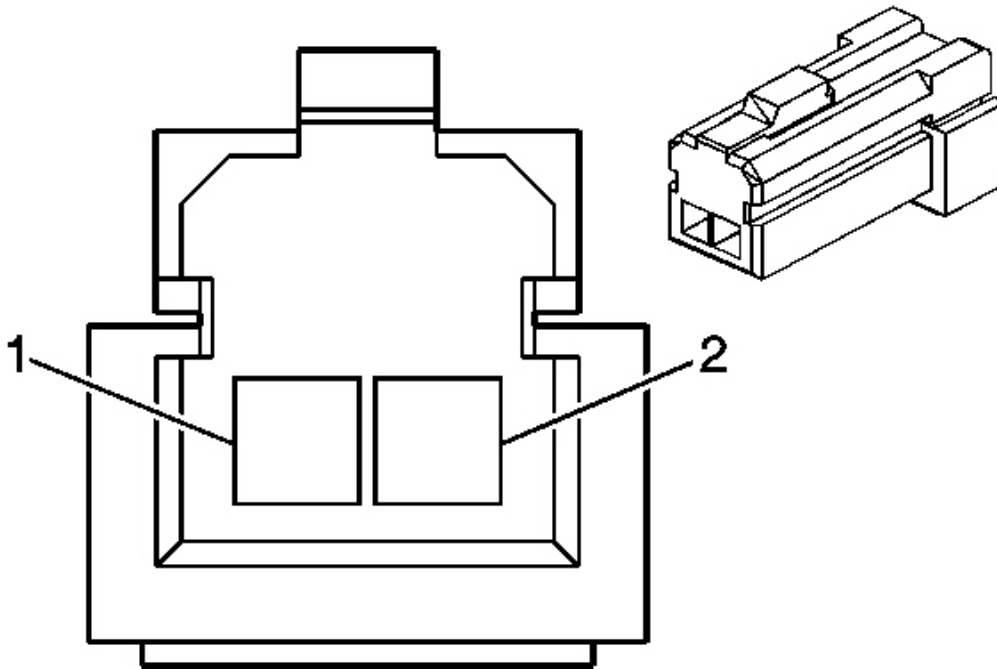


Fig. 42: Door Ajar Switch - Left Rear Connector End View
Courtesy of GENERAL MOTORS CORP.

Door Ajar Switch - Left Rear Connector Parts Information

Connector Part Information

- OEM: 174056-2
- Service: 15306434
- Description: 2-Way F MultiLock 040 (BK)

Terminal Part Information

- Terminal/Tray: 173681-2/17

- Core/Insulation Crimp: E/4
- Release Tool/Test Probe: 15315247/J-35616-16 (L-GN)

Door Ajar Switch - Left Rear Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
1	BK/WH	746	Left Rear Door Ajar Switch Signal
2	BK/WH	1151	Ground

Door Ajar Switch - Right Rear

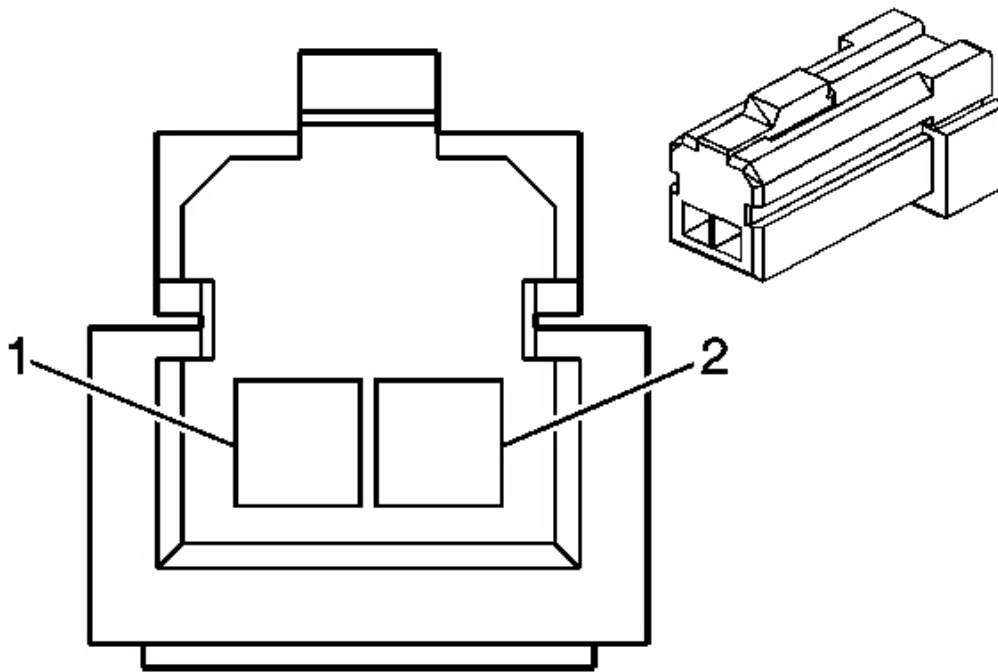


Fig. 43: Door Ajar Switch - Right Rear Connector End View
 Courtesy of GENERAL MOTORS CORP.

Door Ajar Switch - Right Rear Connector Parts Information

Connector Part Information

- OEM: 174056-2

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- Service: 15306434
- Description: 2-Way F MultiLock 040 (BK)

Terminal Part Information

- Terminal/Tray: 173681-2/17
- Core/Insulation Crimp: E/4
- Release Tool/Test Probe: 15315247/J-35616-16 (L-GN)

Door Ajar Switch - Right Rear Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
1	L-BU/BK	747	Right Rear Door Ajar Switch Signal
2	BK/WH	1251	Ground

Endgate Ajar Switch

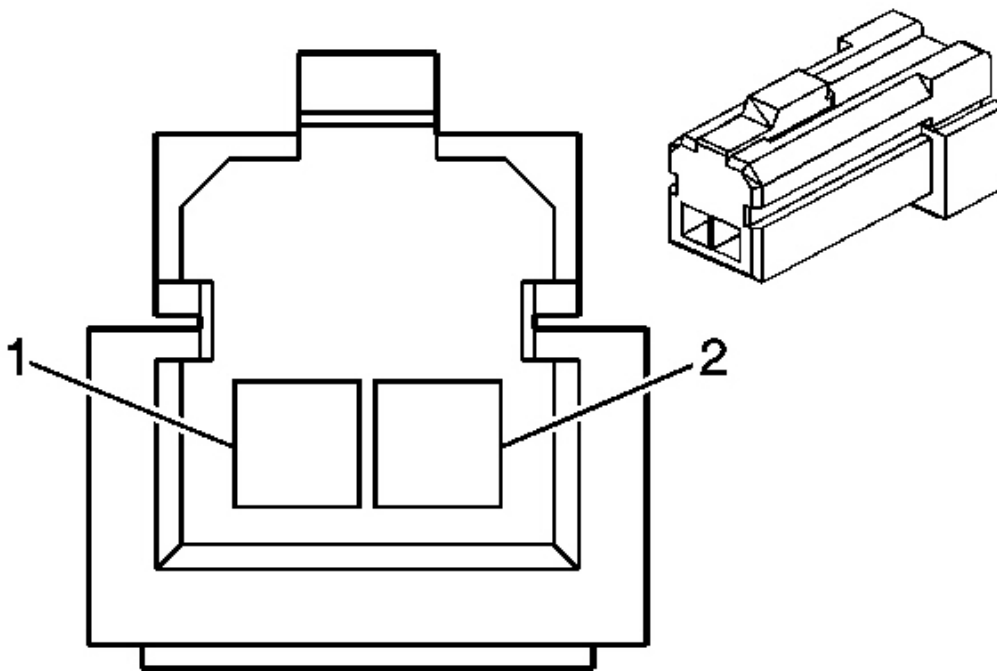


Fig. 44: Endgate Ajar Switch Connector End View
Courtesy of GENERAL MOTORS CORP.

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Endgate Ajar Switch Connector Parts Information

Connector Part Information

- OEM: 174056-2
- Service: 15306434
- Description: 2-Way F MultiLock 040 (BK)

Terminal Part Information

- Terminal/Tray: 173681-2/17
- Core/Insulation Crimp: E/4
- Release Tool/Test Probe: 15315247/J-35616-16 (L-GN)

Endgate Ajar Switch Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
1	L-BU/BK	747	Right Rear Door Ajar Switch Signal
2	BK/WH	1251	Ground

Front Fog Lamp - Left

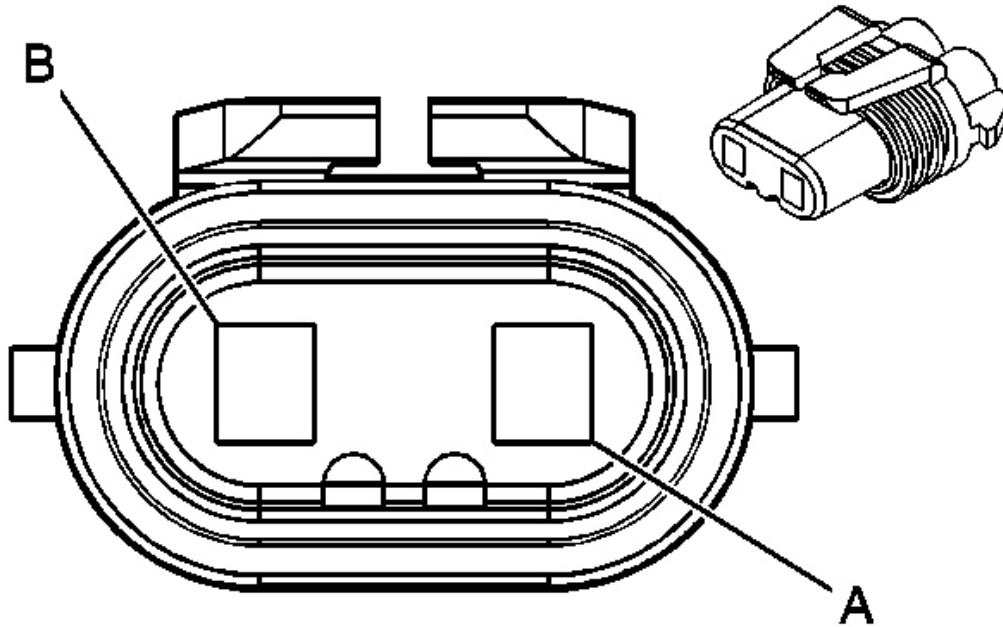


Fig. 45: Front Fog Lamp - Left Connector End View
 Courtesy of GENERAL MOTORS CORP.

Front Fog Lamp - Left Connector Parts Information

Connector Part Information

- OEM: 12059183
- Service: 12101898
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Front Fog Lamp - Left Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	PU	34	Front Fog Lamp Supply Voltage

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B

BK

850

Ground

Front Fog Lamp - Right

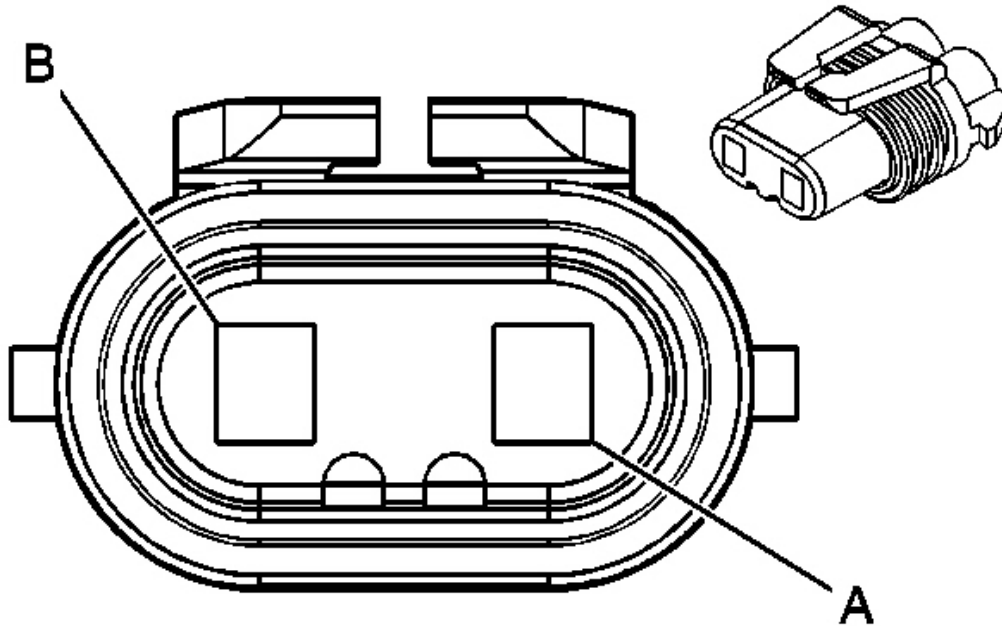


Fig. 46: Front Fog Lamp - Right Connector End View
Courtesy of GENERAL MOTORS CORP.

Front Fog Lamp - Right Connector Parts Information

Connector Part Information

- OEM: 12059183
- Service: 12101898
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

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Front Fog Lamp - Right Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	PU	34	Front Fog Lamp Supply Voltage
B	BK	850	Ground

Front Position Lamp - Left (Export)

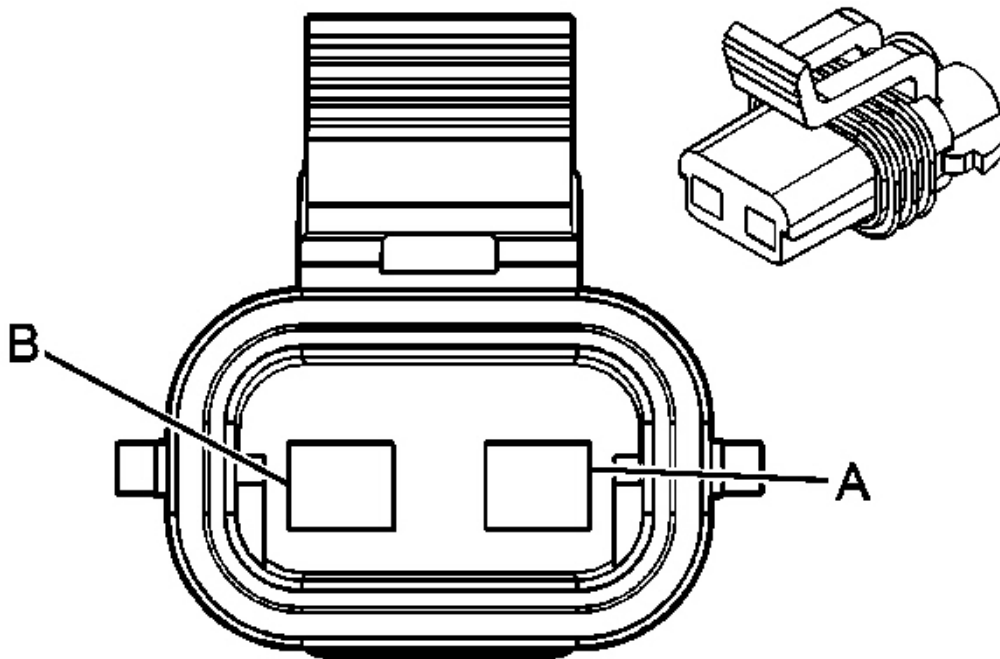


Fig. 47: Front Position Lamp - Left (Export) Connector End View
Courtesy of GENERAL MOTORS CORP.

Front Position Lamp - Left (Export) Connector Parts Information

Connector Part Information

- OEM: 15300027
- Service: 12101855
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

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- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Front Position Lamp - Left (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	BN	2309	Front Position Lamps Supply Voltage
B	BK	850	Ground

Front Position Lamp - Right (Export)

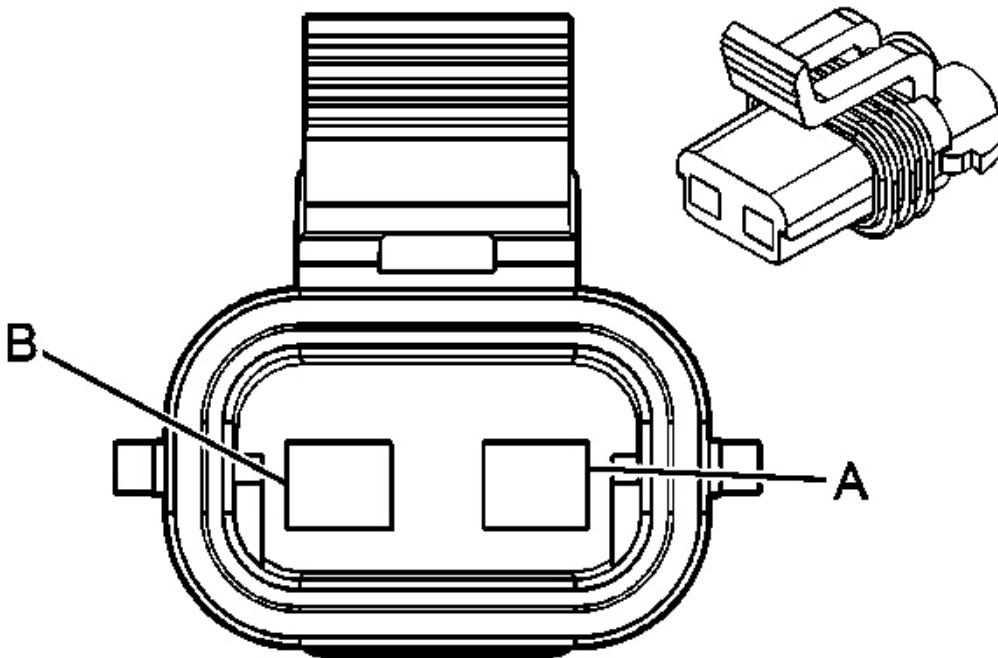


Fig. 48: Front Position Lamp - Right (Export) Connector End Views
Courtesy of GENERAL MOTORS CORP.

Front Position Lamp - Right (Export) Connector Parts Information

Connector Part Information

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- OEM: 15300027
- Service: 12101855
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Front Position Lamp - Right (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	BN	2309	Front Position Lamps Supply Voltage
B	BK	850	Ground

Rear Fog Lamp - Left (T79)

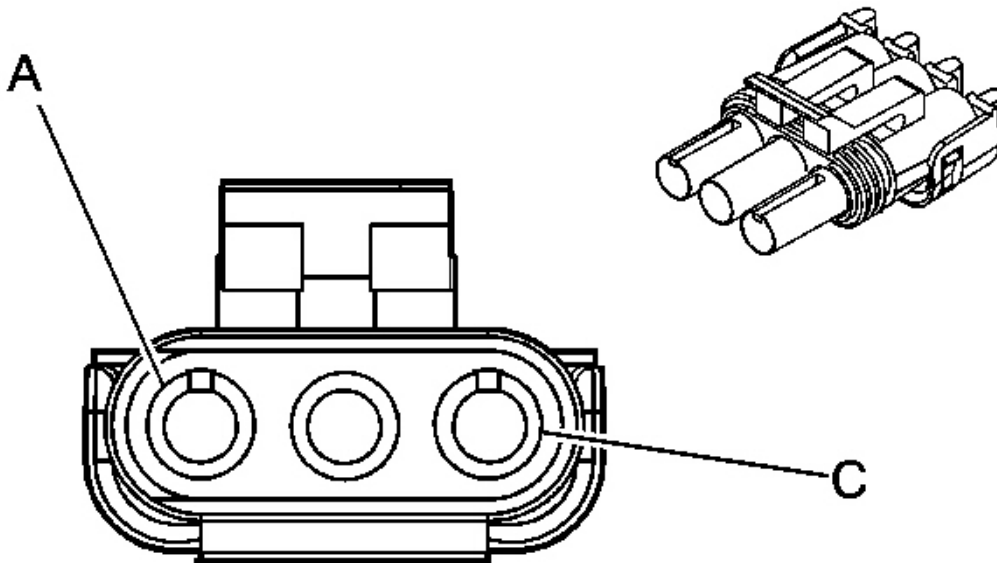


Fig. 49: Rear Fog Lamp - Left (T79) Connector End View
Courtesy of GENERAL MOTORS CORP.

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Rear Fog Lamp - Left (T79) Connector Parts Information

Connector Part Information

- OEM: 12015793
- Service: 12101923
- Description: 3-Way F Weather Pack Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Rear Fog Lamp - Left (T79) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	OR	122	Rear Fog Lamp Supply Voltage
B	BK	1350	Ground
C	-	-	Not Used

Rear Fog Lamp - Right (T79)

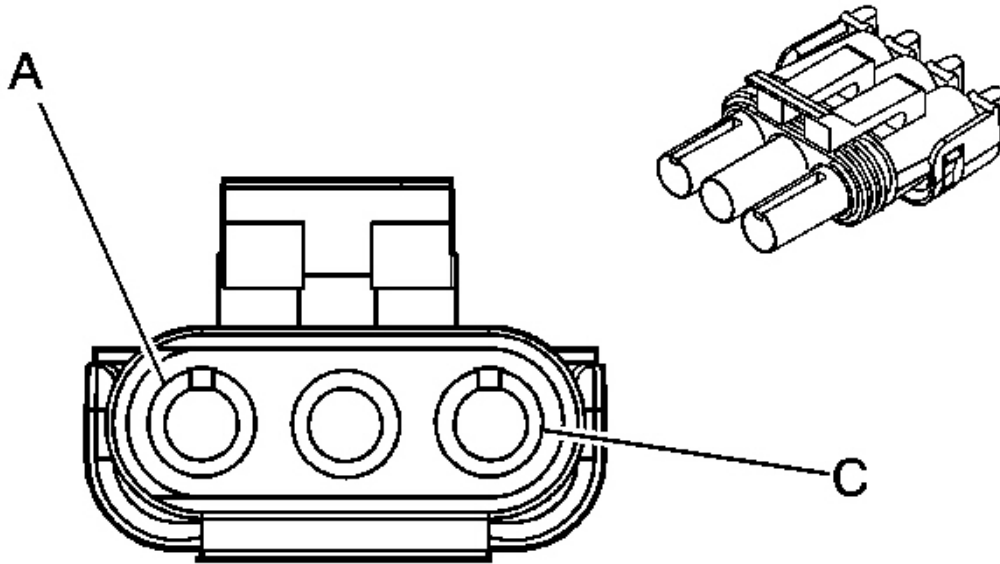


Fig. 50: Rear Fog Lamp - Right (T79) Connector End View
 Courtesy of GENERAL MOTORS CORP.

Rear Fog Lamp - Right (T79) Connector Parts Information

Connector Part Information

- OEM: 12015793
- Service: 12101923
- Description: 3-Way F Weather Pack Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Rear Fog Lamp - Right (T79) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	OR	122	Rear Fog Lamp Supply Voltage
B	BK	1350	Ground

C

-

-

Not Used

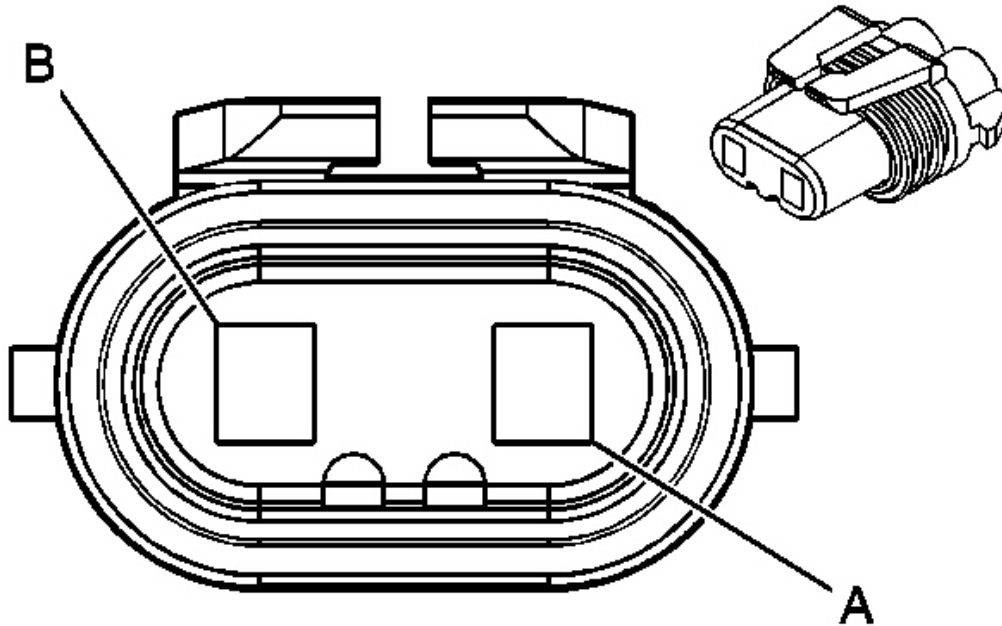
Grille Lamp - Left (UNR)

Fig. 51: Grille Lamp - Left (UNR) Connector End Views
Courtesy of GENERAL MOTORS CORP.

Grille Lamp - Left (UNR) Connector Parts Information**Connector Part Information**

- OEM: 12059183
- Service: 12101898
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

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Grille Lamp - Left (UNR) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	BN	-	Grille Lamp Supply Voltage
B	BK	850	Ground

Grille Lamp - Right (UNR)

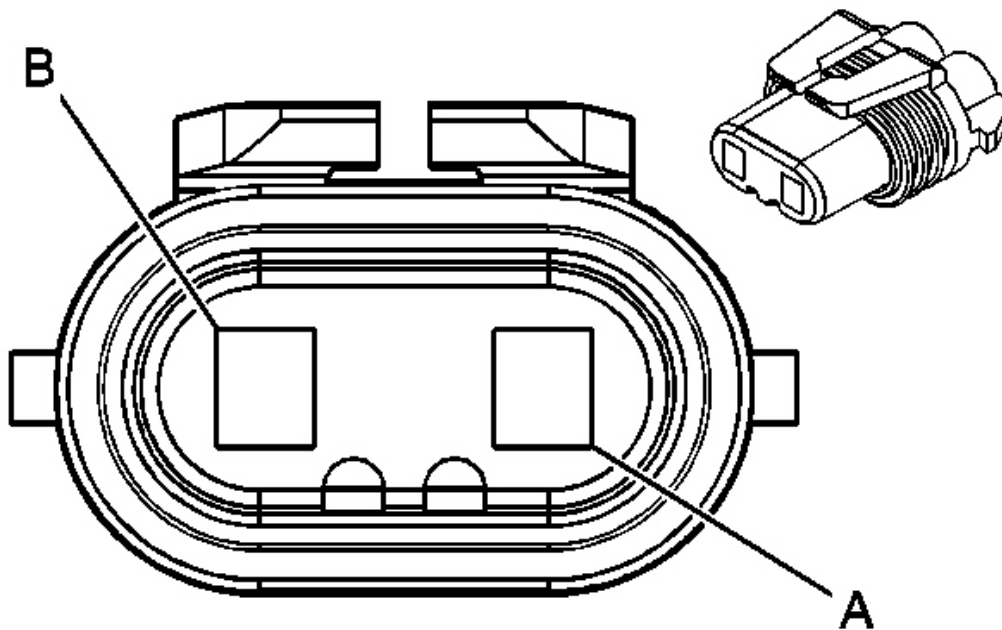


Fig. 52: Grille Lamp - Right (UNR) Connector End Views
Courtesy of GENERAL MOTORS CORP.

Grille Lamp - Right (UNR) Connector Parts Information

Connector Part Information

- OEM: 12059183
- Service: 12101898
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

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- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Grille Lamp - Right (UNR) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	BN	-	Grille Lamp Supply Voltage
B	BK	850	Ground

Grille Lamps Relay (UNR)

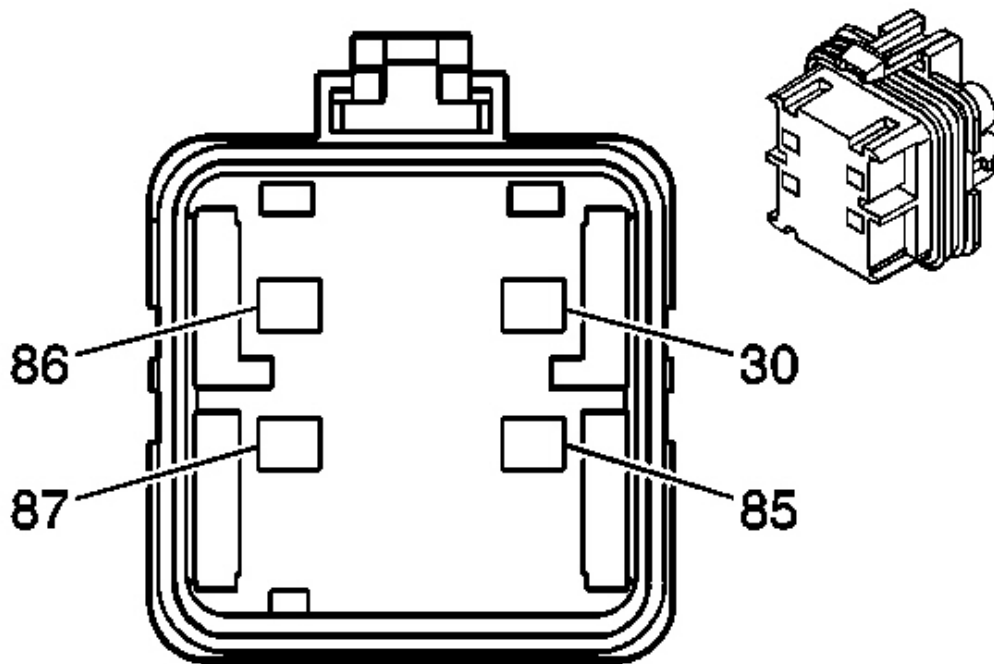


Fig. 53: Grille Lamps Relay (UNR) Connector End Views
Courtesy of GENERAL MOTORS CORP.

Grille Lamps Relay (UNR) Connector Parts Information

Connector Part Information

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- OEM: 12129716
- Service: 15306045
- Description: 4-Way F Metri-Pack 280 Series, Flexlock (GY)

Terminal Part Information

- Terminal/Tray: 12129409/4
- Core/Insulation Crimp: See Terminal Kit
- Release Tool/Test Probe: See Terminal Kit

Grille Lamps Relay (UNR) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
30	D-BU	-	Battery Positive Voltage
85	GN	-	Grille Lamps Relay Coil Control
86	L-BU	-	Accessory Voltage
87	BN	-	Grille Lamp Supply Voltage

Grille Lamps Switch (UNR)

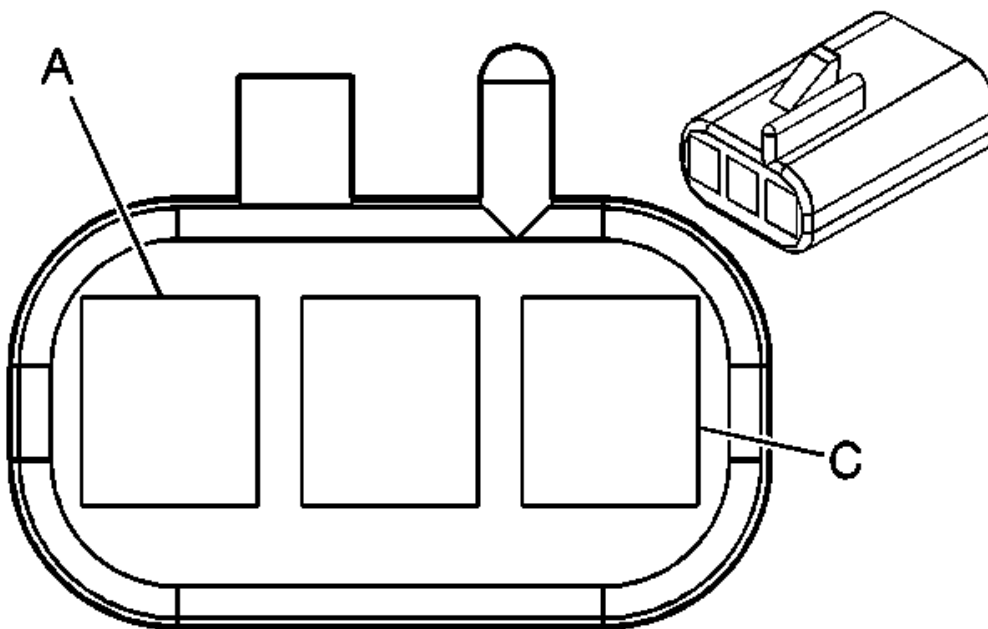


Fig. 54: Grille Lamps Switch (UNR) Connector End Views
Courtesy of GENERAL MOTORS CORP.

Grille Lamps Switch (UNR) Connector Parts Information

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Connector Part Information

- OEM: 12047781
- Service: 12101864
- Description: 3-Way F Metri-Pack 150 Series (BK)

Terminal Part Information

- Terminal/Tray: 12047767/2
- Core/Insulation Crimp: E/A
- Release Tool/Test Probe: 12094429/J-35616-2A (GY)

Grille Lamps Switch (UNR) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	BN	-	Grille Lamps Supply Voltage
B	BK	2050	Ground
C	GN	-	Grille Lamps Relay Coil Control

Hazard Switch

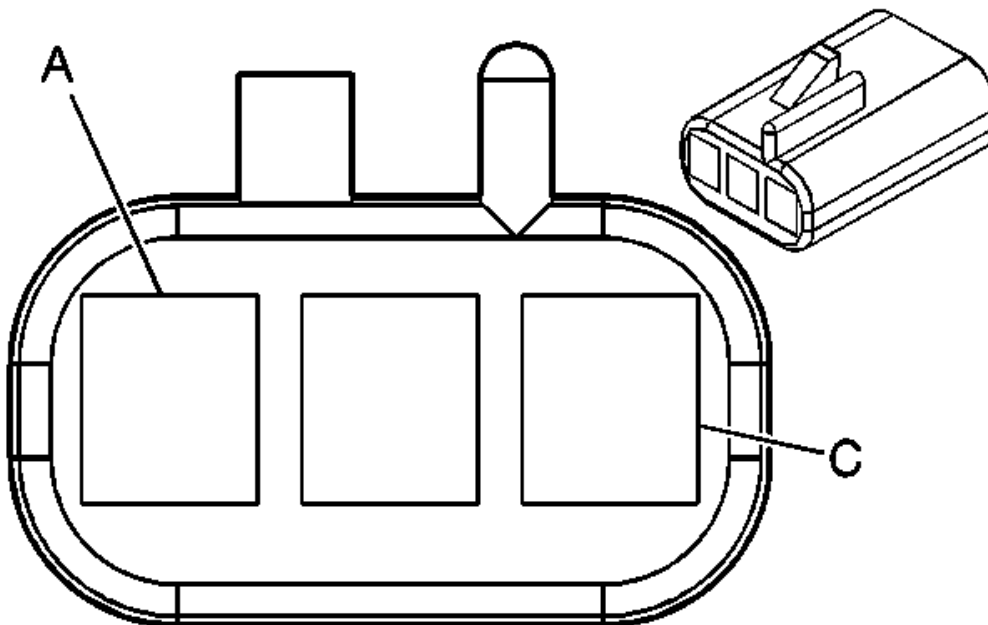


Fig. 55: Hazard Switch Connector End View
Courtesy of GENERAL MOTORS CORP.

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Hazard Switch Connector Parts Information

Connector Part Information

- OEM: 12047781
- Service: 12101864
- Description: 3-Way F Metri-Pack 150 Series (BK)

Terminal Part Information

- Terminal/Tray: 12064971/5
- Core/Insulation Crimp: E/C
- Release Tool/Test Probe: 12094429/J-35616-2A (GY)

Hazard Switch Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	GY	8	Instrument Panel Lamps Dimmer Switch Signal
B	BK	2050	Ground
C	WH	111	Hazard Switch Signal

Headlamp - Left (Domestic)

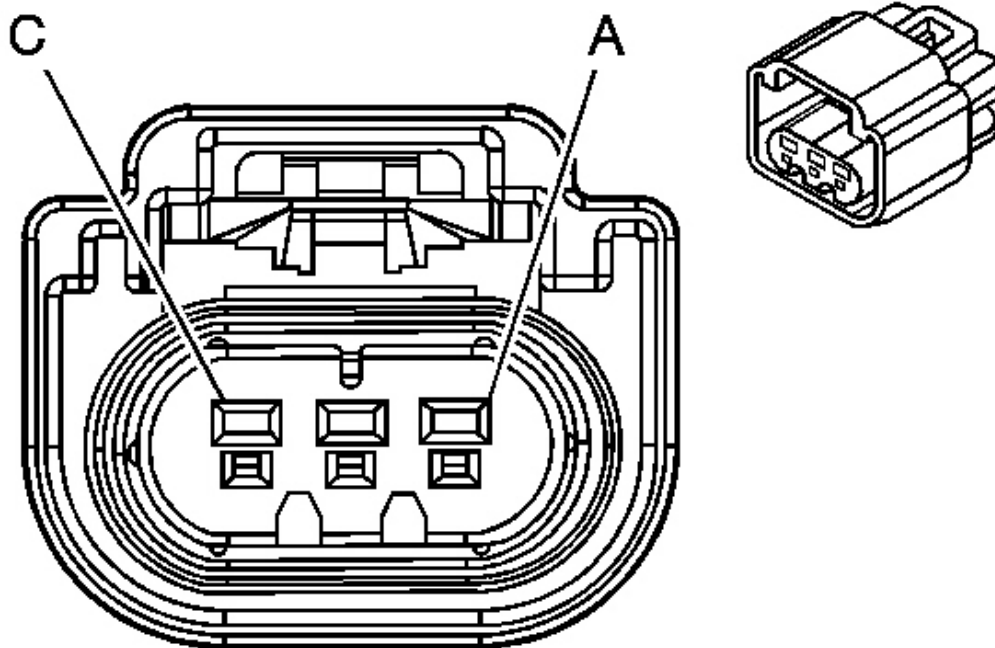


Fig. 56: Headlamp - Left (Domestic) Connector End View
 Courtesy of GENERAL MOTORS CORP.

Headlamp - Left (Domestic) Connector Parts Information

Connector Part Information

- OEM: 15422250
- Service: 88987995
- Description: 3-Way F GT 150 Series, Sealed (D-GY)

Terminal Part Information

- Terminal/Tray: 12191818/8
- Core/Insulation Crimp: See Terminal Kit
- Release Tool/Test Probe: See Terminal Kit

Headlamp - Left (Domestic) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
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A	D-BU	1201	Low Beam Switched Ground
B	OG	640	Battery Positive Voltage
C	PK	1200	High Beam Switched Ground

Headlamp - Right (Domestic)

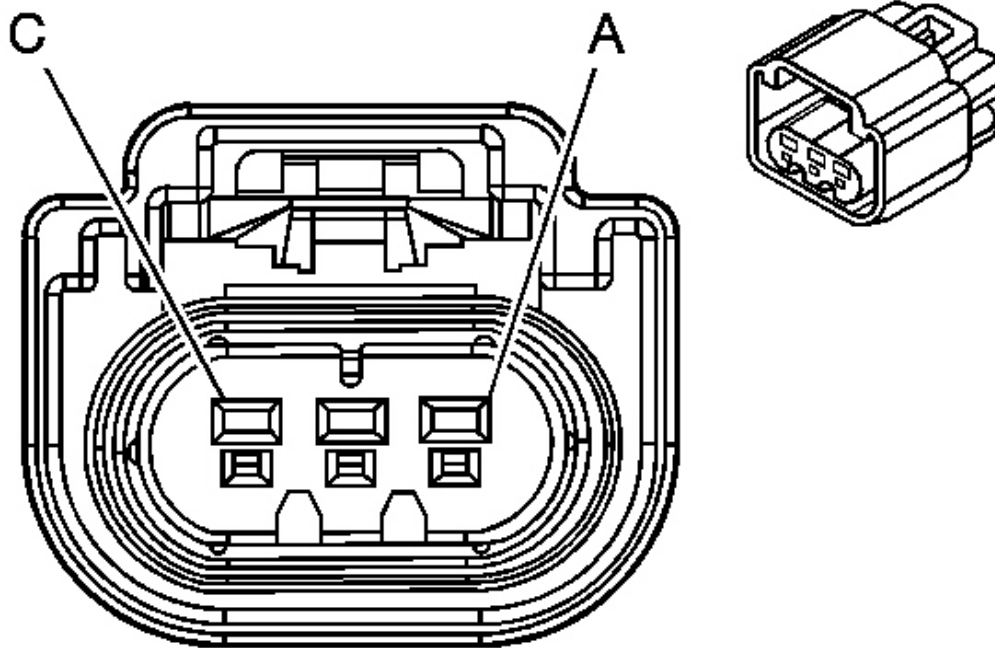


Fig. 57: Headlamp - Right (Domestic) Connector End View
Courtesy of GENERAL MOTORS CORP.

Headlamp - Right (Domestic) Connector Parts Information

Connector Part Information

- OEM: 15422250
- Service: 88987995
- Description: 3-Way F GT 150 Series, Sealed (D-GY)

Terminal Part Information

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- Terminal/Tray: 12191818/8
- Core/Insulation Crimp: See Terminal Kit
- Release Tool/Test Probe: See Terminal Kit

Headlamp - Right (Domestic) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	D-BU	1201	Low Beam Switched Ground
B	OG	640	Battery Positive Voltage
C	PK	1200	High Beam Switched Ground

Headlamp - Left (Export)

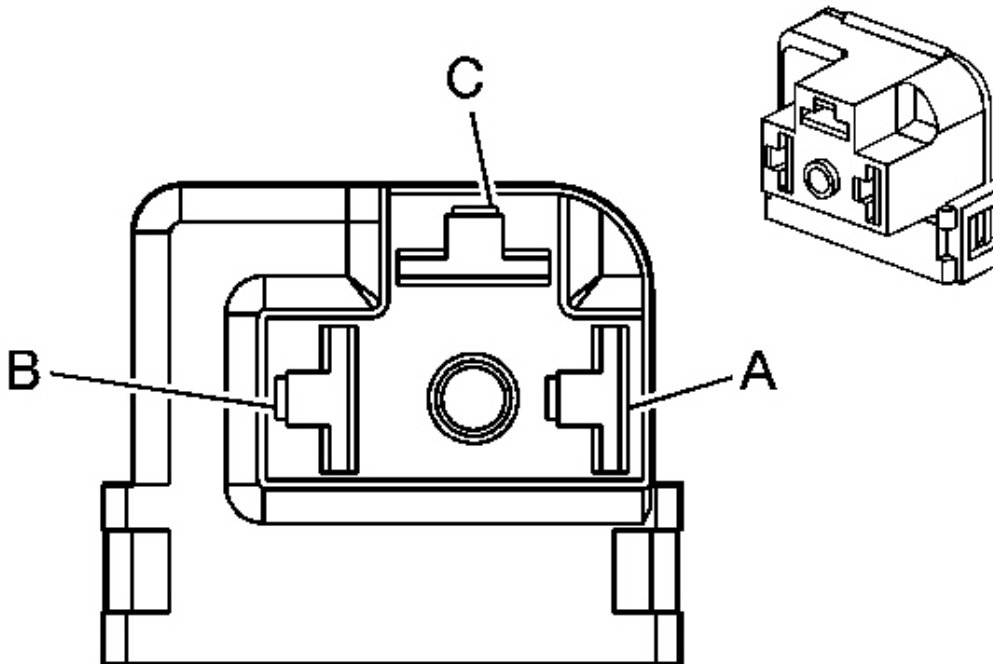


Fig. 58: Headlamp - Left (Export) Connector End View
Courtesy of GENERAL MOTORS CORP.

Headlamp - Left (Export) Connector Parts Information

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Connector Part Information

- OEM: 12034372
- Service: 12117369
- Description: 3-Way F Metri-Pack 800 Unsealed (BK)

Terminal Part Information

- Terminal/Tray: 12191818/8
- Core/Insulation Crimp: See Terminal Kit
- Release Tool/Test Probe: See Terminal Kit

Headlamp - Left (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	OR	740	Battery Positive Voltage
B	PK	1200	High Beam Switched Ground
C	D-BU	1201	Low Beam Switched Ground

Headlamp - Right (Export)

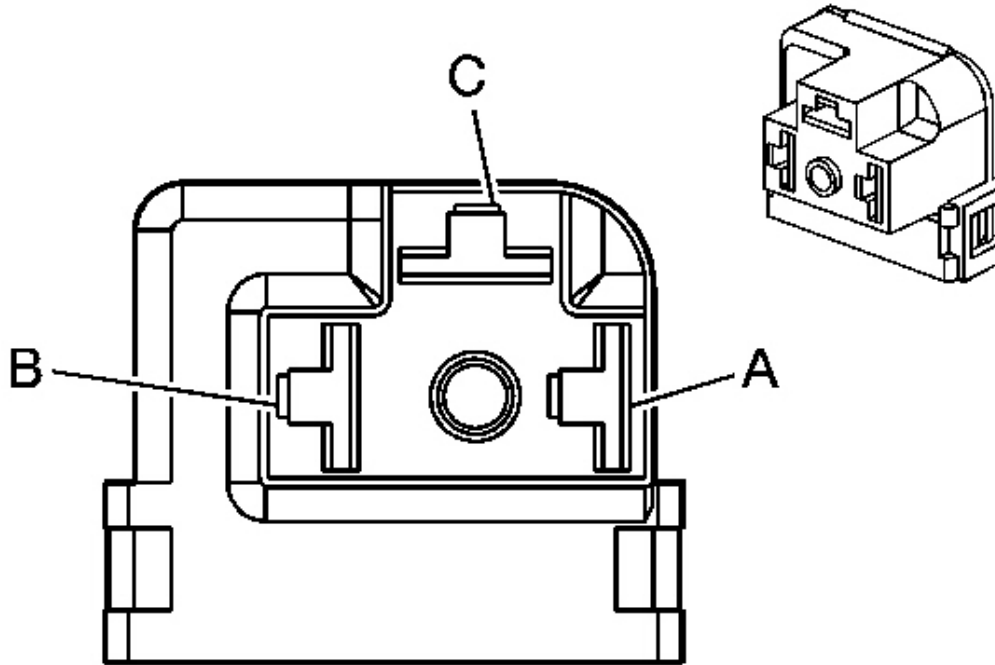


Fig. 59: Headlamp - Right (Export) Connector End View
 Courtesy of GENERAL MOTORS CORP.

Headlamp - Right (Export) Connector Parts Information

Connector Part Information

- OEM: 12034372
- Service: 12117369
- Description: 3-Way F Metri-Pack 800 Unsealed (BK)

Terminal Part Information

- Terminal/Tray: 12191818/8
- Core/Insulation Crimp: See Terminal Kit
- Release Tool/Test Probe: See Terminal Kit

Headlamp - Right (Export) Connector Terminal Identification

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Pin	Wire Color	Circuit No.	Function
A	OR	640	Battery Positive Voltage
B	PK	1200	High Beam Switched Ground
C	D-BU	1201	Low Beam Switched Ground

Headlamp Switch

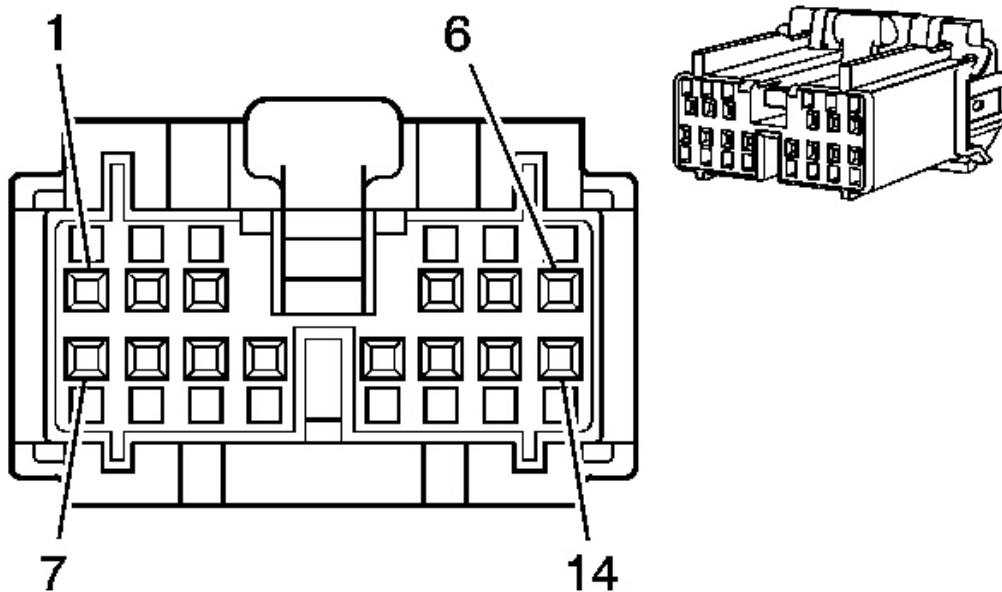


Fig. 60: Headlamp Switch Connector End View
Courtesy of GENERAL MOTORS CORP.

Headlamp Switch Connector Parts Information

Connector Part Information

- OEM: IL-AG5-14S-D3C1-A
- Service: 88986257
- Description: 14-Way F 025, IL-AG5 Series (GN)

Terminal Part Information

- Terminal/Tray: IL-AG5-C1-5000/20

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- Core/Insulation Crimp: K/K
- Release Tool/Test Probe: J-38125-211/J-35616-64A (L-BU)

Headlamp Switch Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
1	D-BU/WH	1495	Dome Override Switch Signal
2	BN/WH	301	Park Lamp Switch Signal
3	PU	719	Low Reference
4	WH	103	Headlamp Switch On Signal
5	PU/WH	549	Headlamp Switch Headlamps Off Signal
6	GY	8	Instrument Panel Lamps Dimmer Switch Signal
7	OG	192	Front Fog Lamp Switch Signal
8	YE	183	Front Fog Lamp Indicator Control
9	YE	543	Accessory Voltage (Export)
10	D-BU/WH	6796	Voice Recognition Switch Output Signal (UE1)
	L-BU	187	Rear Fog Lamp Switch Signal
11	PU	328	Interior Lamp Switch Signal
12	D-GN	189	Headlamp Leveling Motor Supply Voltage
13	D-BU	184	Rear Fog Lamp Indicator Control
14	BN/WH	230	Instrument Panel Lamps Dimming Control

License Lamp (Domestic)

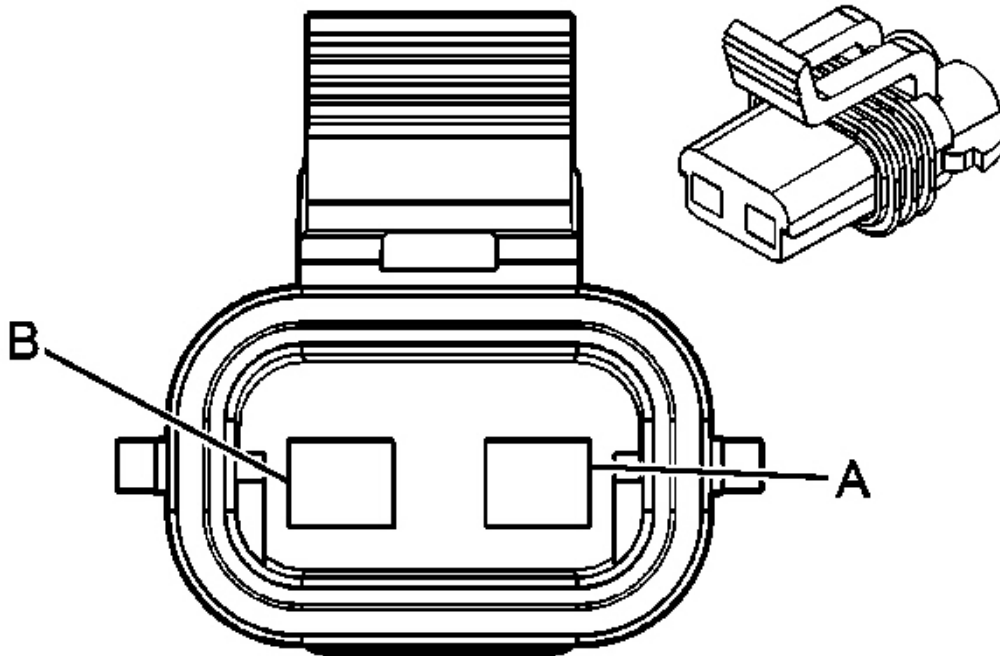


Fig. 61: License Lamp (Domestic) Connectors End Vie
 Courtesy of GENERAL MOTORS CORP.

License Lamp (Domestic) Connector Parts Information

Connector Part Information

- OEM: 15300027
- Service: 12101855
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

License Lamp (Domestic) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function

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A	BN/WH	2609	Right Rear Park Lamp Supply Voltage
B	BK	1350	Ground

License Lamp - Left (Export)

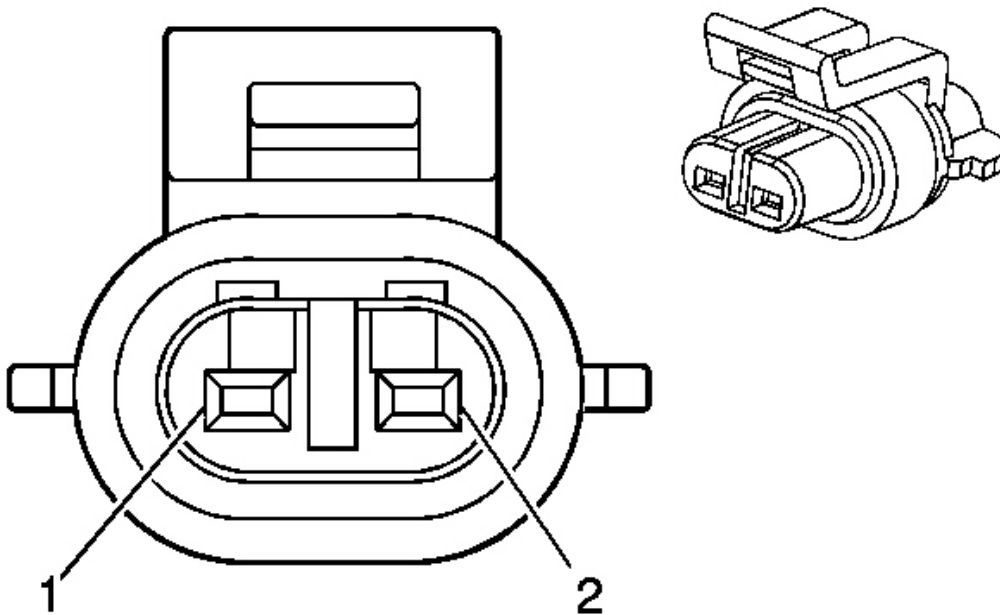


Fig. 62: License Lamp - Left (Export) Connector End View
Courtesy of GENERAL MOTORS CORP.

License Lamp - Left (Export) Connector Parts Information

Connector Part Information

- OEM: 15336195
- Service: 88988136
- Description: 2-Way F GT 150 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5

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- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

License Lamp - Left (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
1	BN/WH	2609	Right Rear Park Lamp Supply Voltage
2	BK	1350	Ground

License Lamp - Right (Export)

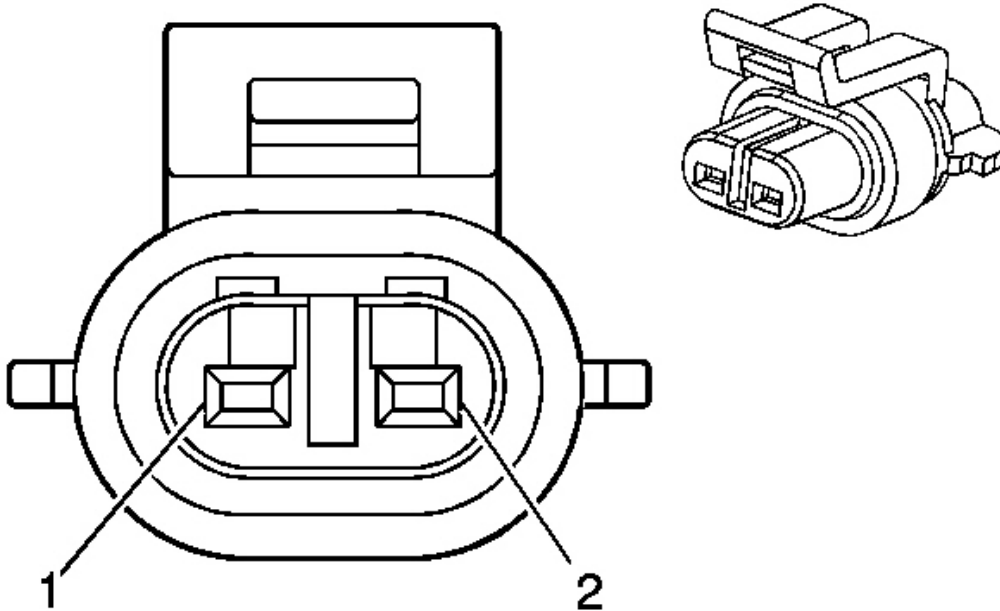


Fig. 63: License Lamp - Right (Export) Connector End View
Courtesy of GENERAL MOTORS CORP.

License Lamp - Right (Export) Connector Parts Information

Connector Part Information

- OEM: 15336195
- Service: 88988136
- Description: 2-Way F GT 150 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

License Lamp - Right (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
1	BN/WH	2609	Right Rear Park Lamp Supply Voltage
2	BK	1350	Ground

Marker Lamp - Left Front

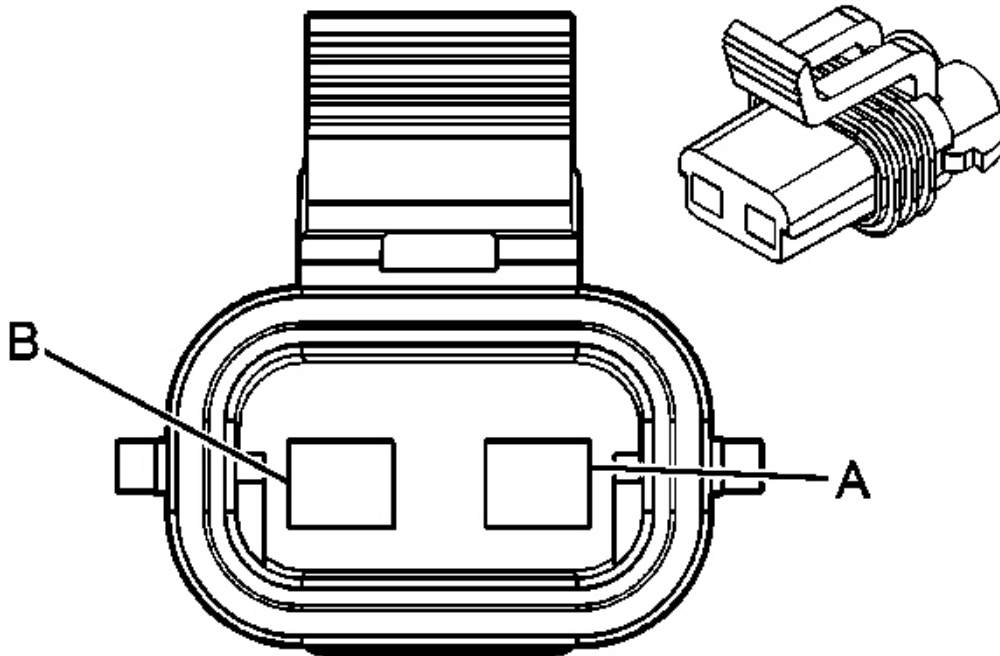


Fig. 64: Marker Lamp - Left Front Connector End View
 Courtesy of GENERAL MOTORS CORP.

Marker Lamp - Left Front Connector Parts Information

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Connector Part Information

- OEM: 15300027
- Service: 12101855
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Marker Lamp - Left Front Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	BN	9	Park Lamp Supply Voltage
B	BK	850	Ground

Marker Lamp - Right Front

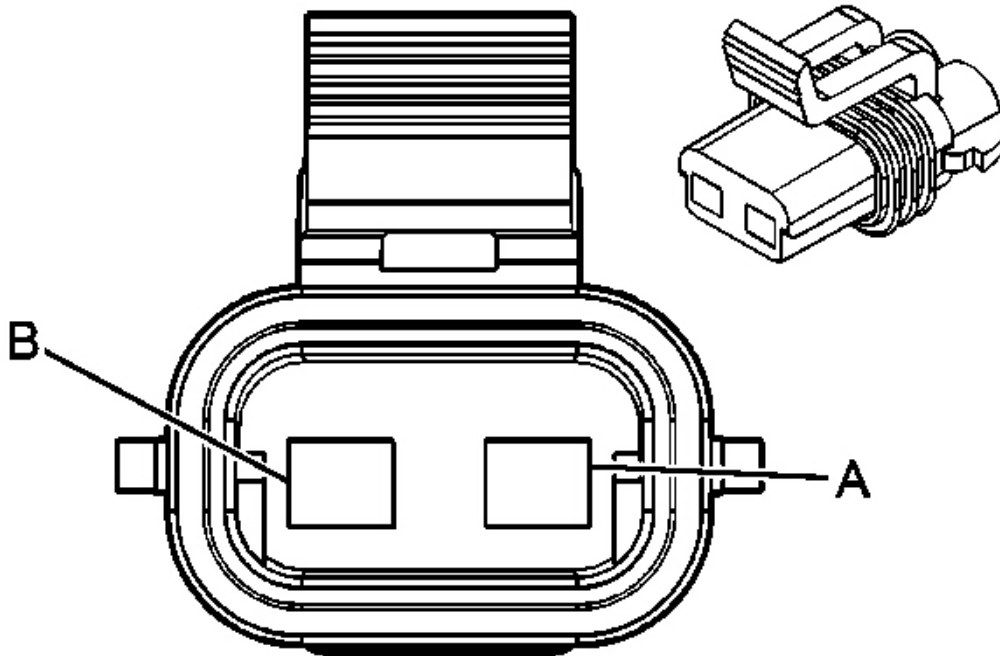


Fig. 65: Marker Lamp - Right Front Connector End Views
 Courtesy of GENERAL MOTORS CORP.

Marker Lamp - Right Front Connector Parts Information

Connector Part Information

- OEM: 15300027
- Service: 12101855
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Marker Lamp - Right Front Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function

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A	BN	9	Park Lamp Supply Voltage
B	BK	850	Ground

Park/Turn Signal Lamp - Left Front (Domestic)

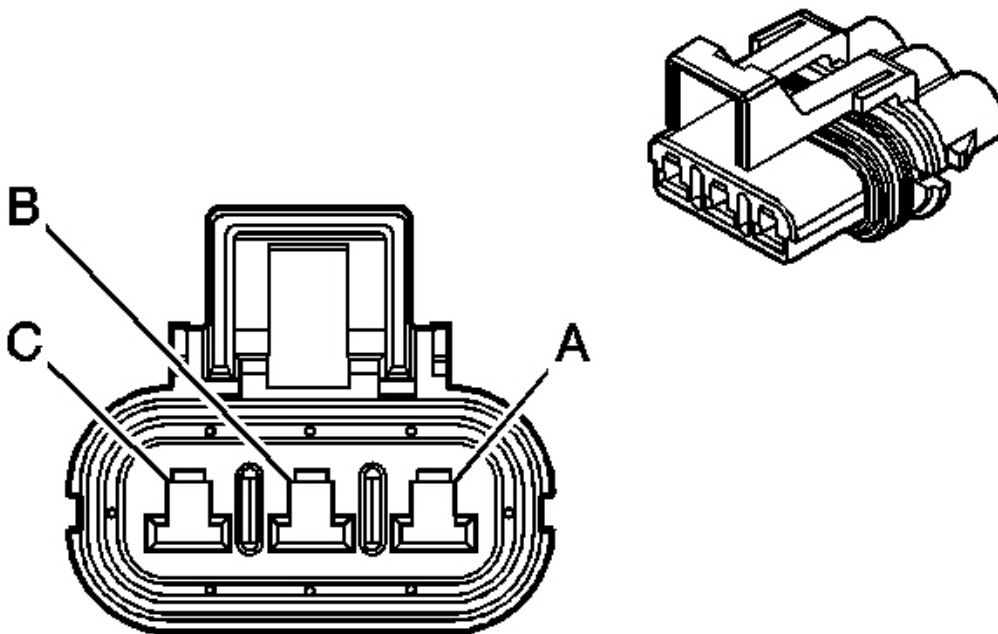


Fig. 66: Park/Turn Signal Lamp - Left Front (Domestic) Connector End View
Courtesy of GENERAL MOTORS CORP.

Park/Turn Signal Lamp - Left Front (Domestic) Connector Parts Information

Connector Part Information

- OEM: 12040977
- Service: 12085492
- Description: 3-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5

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- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Park/Turn Signal Lamp - Left Front (Domestic) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	D-BU	15	Right Turn Signal Lamp Supply Voltage
B	BN	9	Park Lamp Supply Voltage
C	BK	850	Ground

Park/Turn Signal Lamp - Right Front (Domestic)

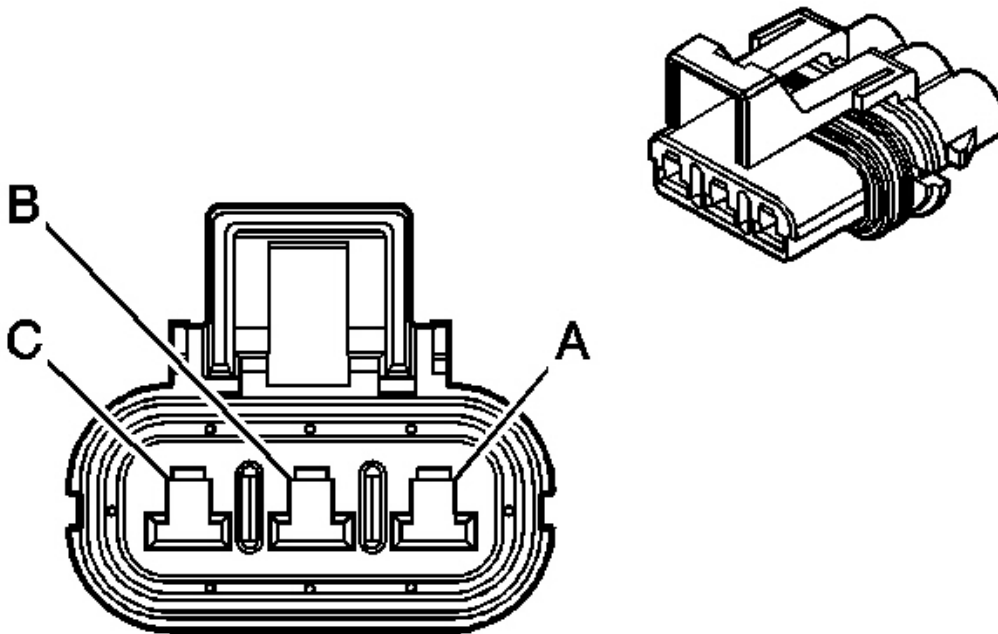


Fig. 67: Park/Turn Signal Lamp - Right Front (Domestic) Connector End View
Courtesy of GENERAL MOTORS CORP.

Park/Turn Signal Lamp - Right Front (Domestic) Connector Parts Information

Connector Part Information

- OEM: 12040977

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- Service: 12085492
- Description: 3-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Park/Turn Signal Lamp - Right Front (Domestic) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	D-BU	15	Right Turn Signal Lamp Supply Voltage
B	BN	9	Park Lamp Supply Voltage
C	BK	850	Ground

Repeater Lamp - Left (Export)

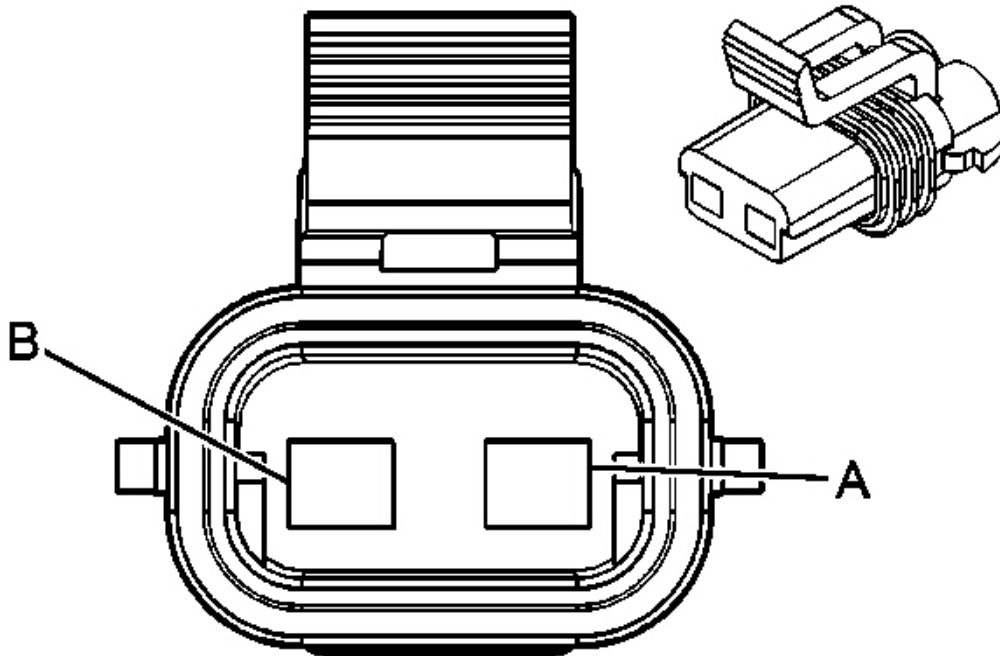


Fig. 68: Repeater Lamp - Left (Export) Connector End Views
 Courtesy of GENERAL MOTORS CORP.

Repeater Lamp - Left (Export) Connector Parts Information

Connector Part Information

- OEM: 15300027
- Service: 12101855
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Repeater Lamp - Left (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	L-BU	14	Roof Lamps Supply Voltage
B	BK	850	Ground

Repeater Lamp - Right (Export)

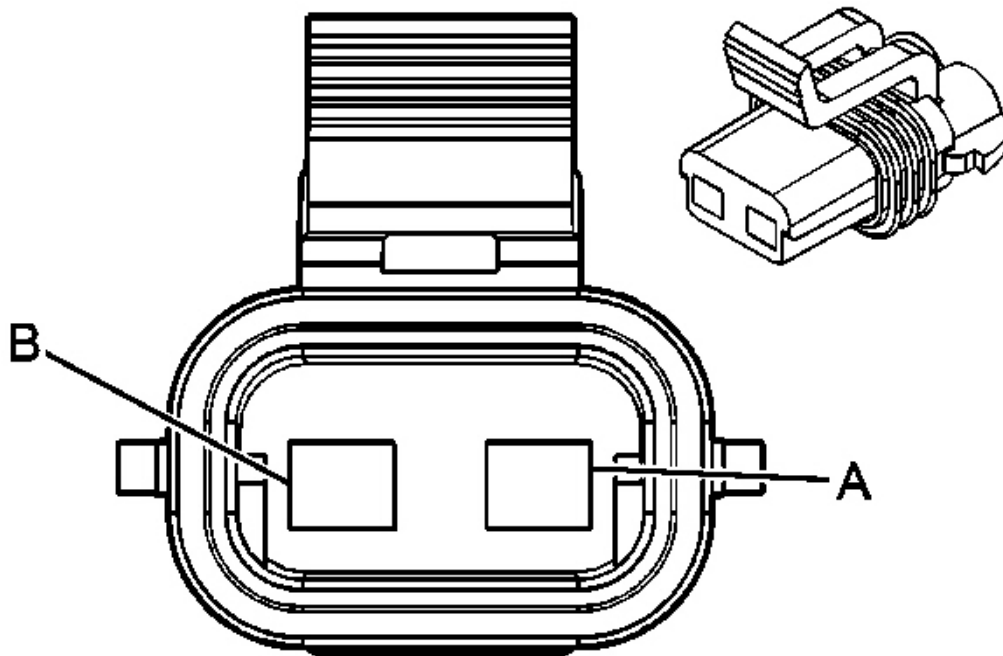


Fig. 69: Repeater Lamp - Right (Export) Connector End View
 Courtesy of GENERAL MOTORS CORP.

Repeater Lamp - Right (Export) Connector Parts Information

Connector Part Information

- OEM: 15300027
- Service: 12101855
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Repeater Lamp - Right (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function

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A	D-BU	15	Roof Lamps Supply Voltage
B	BK	850	Ground

Roof Lamp - Left (UNJ)

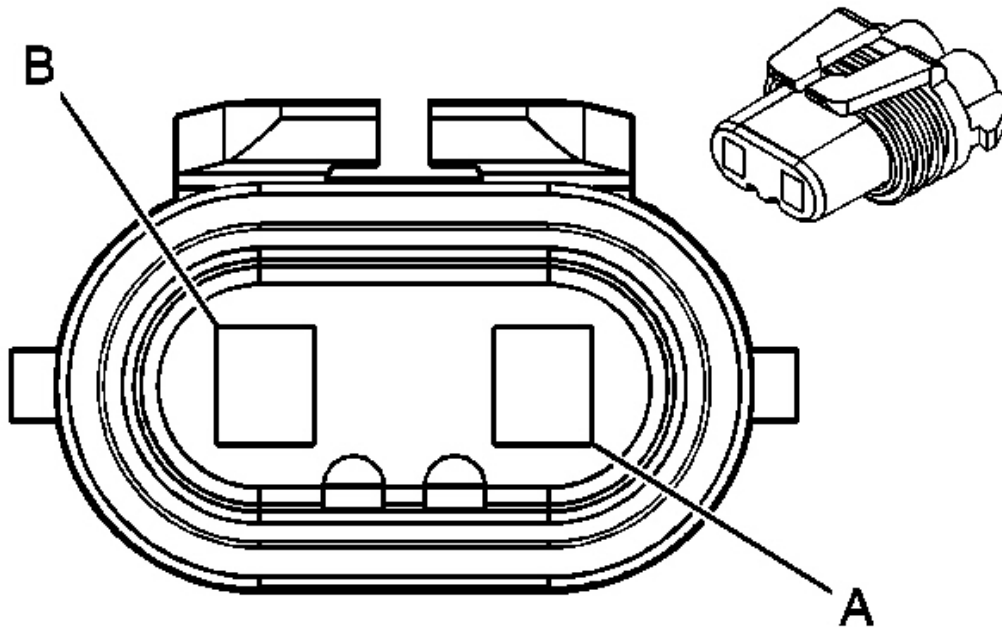


Fig. 70: Roof Lamp - Left (UNJ) Connector End View
Courtesy of GENERAL MOTORS CORP.

Roof Lamp - Left (UNJ) Connector Parts Information

Connector Part Information

- OEM: 12059183
- Service: 12101898
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5

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- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Roof Lamp - Left (UNJ) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	OG	-	Roof Lamps Supply Voltage
B	BK	850	Ground

Roof Lamp - Right (UNJ)

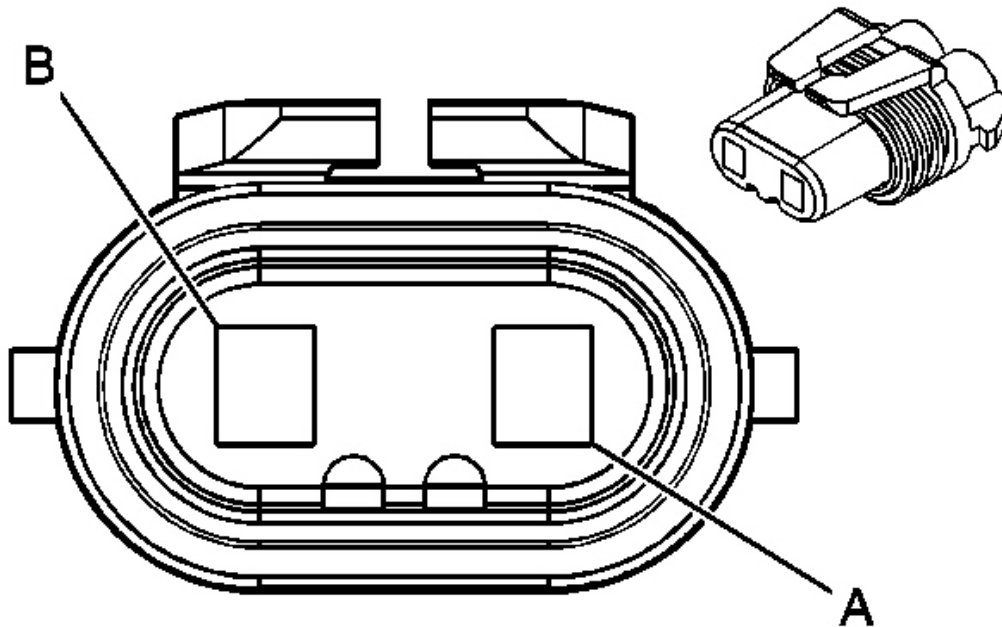


Fig. 71: Roof Lamp - Right (UNJ) Connector End View
Courtesy of GENERAL MOTORS CORP.

Roof Lamp - Right (UNJ) Connector Parts Information

Connector Part Information

- OEM: 12059183
- Service: 12101898
- Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Terminal Part Information

- Terminal/Tray: 12077411/2
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Roof Lamp - Right (UNJ) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	OG	-	Roof Lamps Supply Voltage
B	BK	850	Ground

Roof Lamps Relay (UNJ)

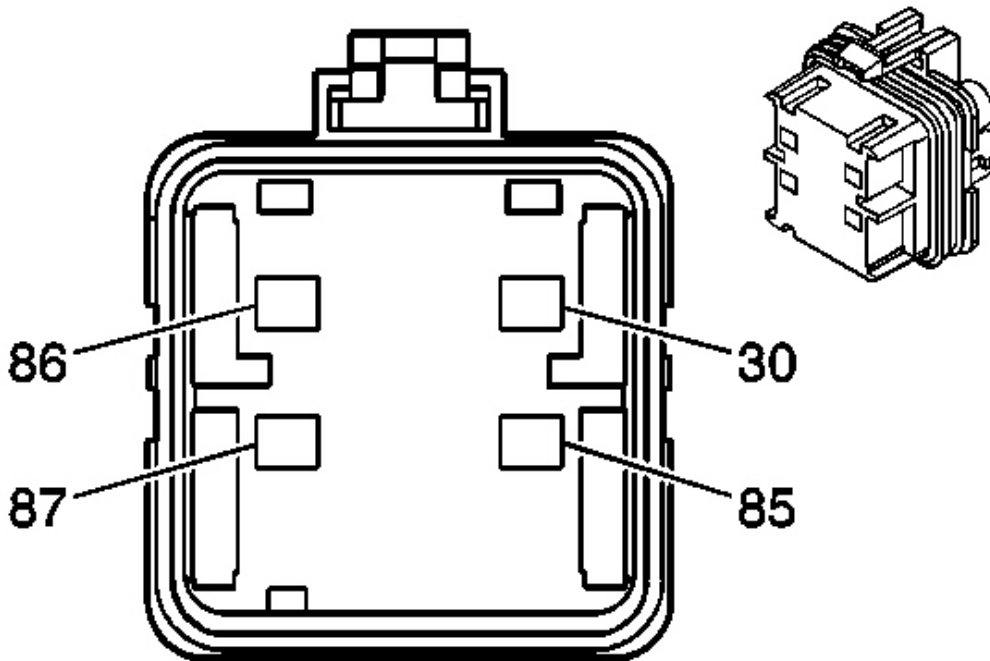


Fig. 72: Roof Lamps Relay (UNJ) Connector End View
 Courtesy of GENERAL MOTORS CORP.

Roof Lamps Relay (UNJ) Connector Parts Information

Connector Part Information

- OEM: 12129716
- Service: 15306045
- Description: 4-Way F Metri-Pack 280 Series, Flexlock (GY)

Terminal Part Information

- Terminal/Tray: 12129409/4
- Core/Insulation Crimp: See Terminal Kit
- Release Tool/Test Probe: See Terminal Kit

Roof Lamps Relay (UNJ) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
30	RD	-	Battery Positive Voltage
85	WH	-	Roof Lamps Relay Coil Control
86	RD	-	Battery Positive Voltage
87	OG	-	Roof Lamps Supply Voltage

Roof Lamps Switch (UNJ)

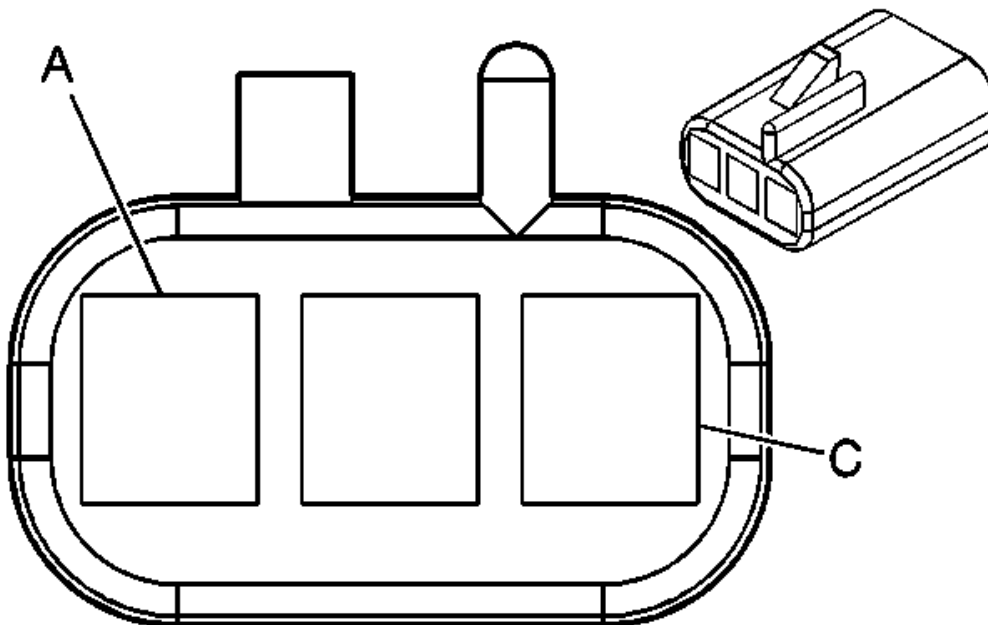


Fig. 73: Roof Lamps Switch (UNJ) Connector End View
 Courtesy of GENERAL MOTORS CORP.

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Roof Lamps Switch (UNJ) Connector Parts Information

Connector Part Information

- OEM: 12047781
- Service: 12101864
- Description: 3-Way F Metri-Pack 150 Series (BK)

Terminal Part Information

- Terminal/Tray: 12047767/2
- Core/Insulation Crimp: E/A
- Release Tool/Test Probe: 12094429/J-35616-2A (GY)

Roof Lamps Switch (UNJ) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	OG	-	Roof Lamps Supply Voltage
B	BK	2050	Ground
C	WH	-	Roof Lamps Relay Coil Control

Roof Marker Lamps (UNH)

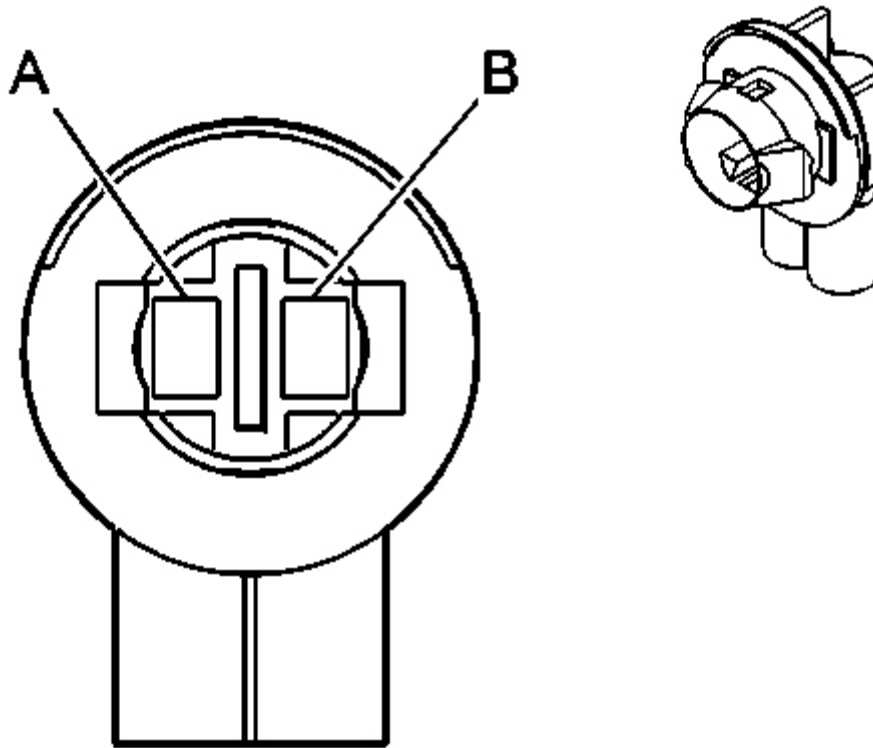


Fig. 74: Roof Marker Lamps (UNH) Connector End View
Courtesy of GENERAL MOTORS CORP.

Roof Marker Lamps (UNH) Connector Parts Information

Connector Part Information

- OEM: 12146418
- Service: See Catalog
- Description: 2-Way F Lamp Socket Wedge Series, Sealed (L-GY)

Terminal Part Information

- Terminal/Tray: 1206638/5
- Core/Insulation Crimp: 2/5
- Release Tool/Test Probe: 12180559-1/J-35616-4A (PU)

Roof Marker Lamps (UNH) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	RD	9	Park Lamp Supply Voltage
B	BK	850	Ground

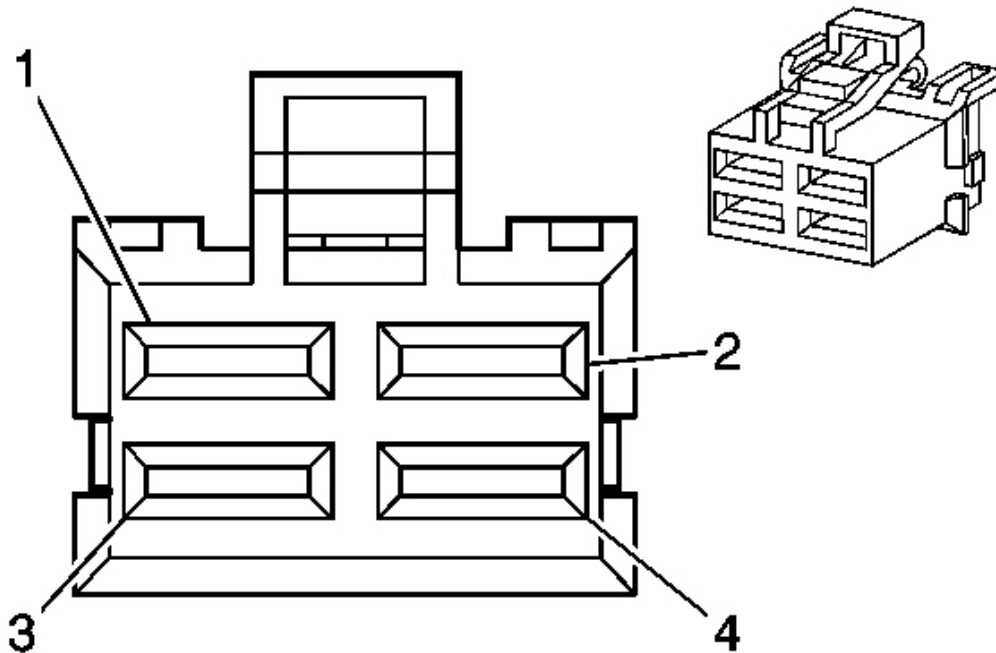
Stop Lamp Switch

Fig. 75: Stop Lamp Switch Connector End View
 Courtesy of GENERAL MOTORS CORP.

Stop Lamp Switch Connector Parts Information**Connector Part Information**

- OEM: 7123-6043-30
- Service: 88987863
- Description: 4-Way F 58 M-Type (GY)

Terminal Part Information

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- Terminal/Tray: 7116-2876/10
- Core/Insulation Crimp: C/B
- Release Tool/Test Probe: 12094430/J-35616-42 (RD)

Stop Lamp Switch Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
1	OG	140	Battery Positive Voltage
2	L-BU	20	Stop Lamp Supply Voltage
3-4	-	-	Not Used

Sunshade - Left (YC3)

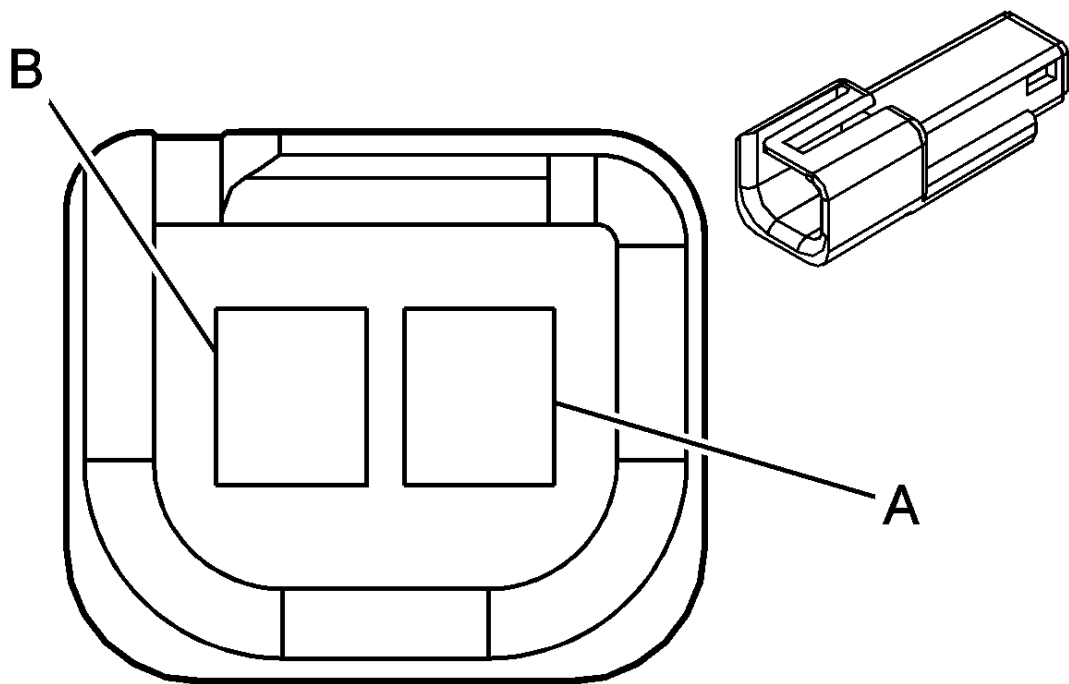


Fig. 76: Sunshade - Left (YC3) Connector End View
Courtesy of GENERAL MOTORS CORP.

Sunshade - Left (YC3) Connector Parts Information

Connector Part Information

- OEM: 12047663
- Service: 12085481
- Description: 2-Way M Metri-Pack 150 Series (BK)

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Terminal Part Information

- Terminal/Tray: 12059894/5
- Core/Insulation Crimp: See Terminal Kit
- Release Tool/Test Probe: See Terminal Kit

Sunshade - Left (YC3) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	BK	2050	Ground
B	OG	1732	Inadvertent Power Supply Voltage

Sunshade - Right (YC3)

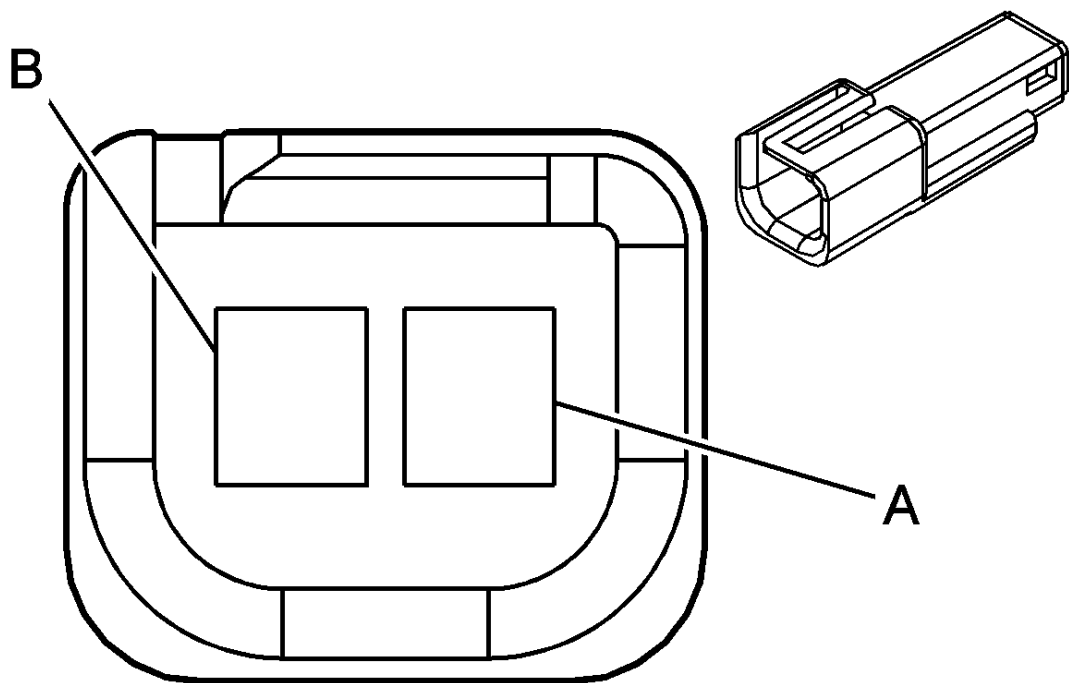


Fig. 77: Sunshade - Right (YC3) Connector End View
Courtesy of GENERAL MOTORS CORP.

Sunshade - Right (YC3) Connector Parts Information

Connector Part Information

- OEM: 12047663
- Service: 12085481
- Description: 2-Way M Metri-Pack 150 Series (BK)

Terminal Part Information

- Terminal/Tray: 12059894/5
- Core/Insulation Crimp: See Terminal Kit
- Release Tool/Test Probe: See Terminal Kit

Sunshade - Right (YC3) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	BK	2050	Ground
B	OG	1732	Inadvertent Power Supply Voltage

Tail/Stop and Turn Signal Lamp - Left (Domestic)

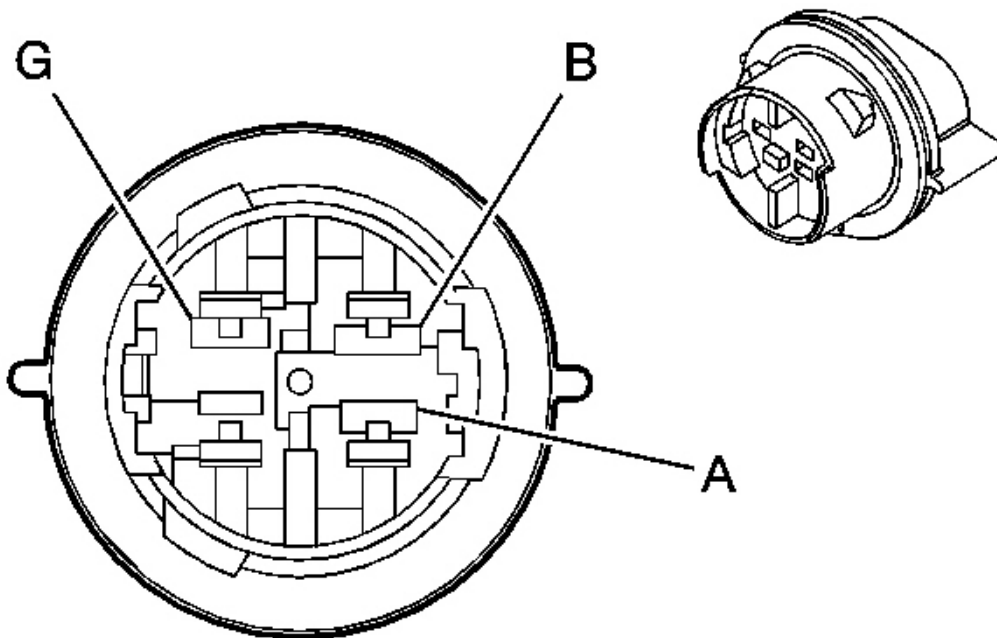


Fig. 78: Tail/Stop and Turn Signal Lamp - Left (Domestic) Connector End View
 Courtesy of GENERAL MOTORS CORP.

Tail/Stop and Turn Signal Lamp - Left (Domestic) Connector Parts Information

Connector Part Information

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- OEM: 16530671
- Service: Not Serviced
- Description: 3-Way F Lamp Socket (D-GY)

Tail/Stop and Turn Signal Lamp - Left (Domestic) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	D-BU	18	Left Rear Stop/Turn Lamp Supply Voltage
B	BN	2509	Left Rear Park Lamp Supply Voltage
G	BK	1450	Ground
	BK	1450	Ground

Tail/Stop and Turn Signal Lamp - Right (Domestic)

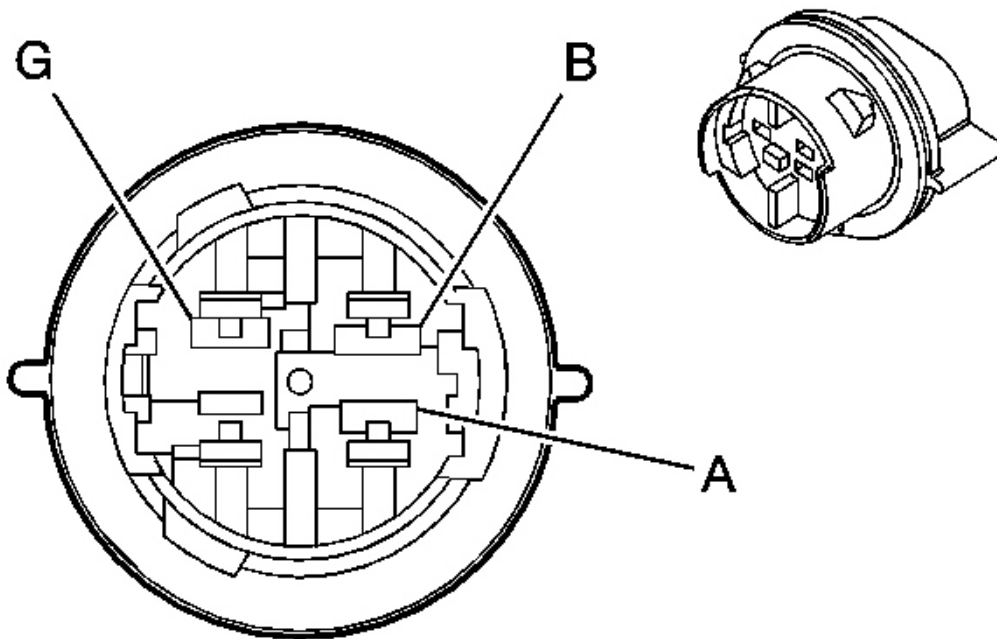


Fig. 79: Tail/Stop and Turn Signal Lamp - Right (Domestic) Connector End View
Courtesy of GENERAL MOTORS CORP.

Tail/Stop and Turn Signal Lamp - Right (Domestic) Connector Parts Information

Connector Part Information

- OEM: 16530671
- Service: Not Serviced
- Description: 3-Way F Lamp Socket (D-GY)

Tail/Stop and Turn Signal Lamp - Right (Domestic) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	D-BU	19	Right Rear Stop/Turn Lamp Supply Voltage
B	BN	2509	Right Rear Park Lamp Supply Voltage
G	BK	1550	Ground
	BK	1550	Ground

Tail/Stop Lamp - Left (Export)

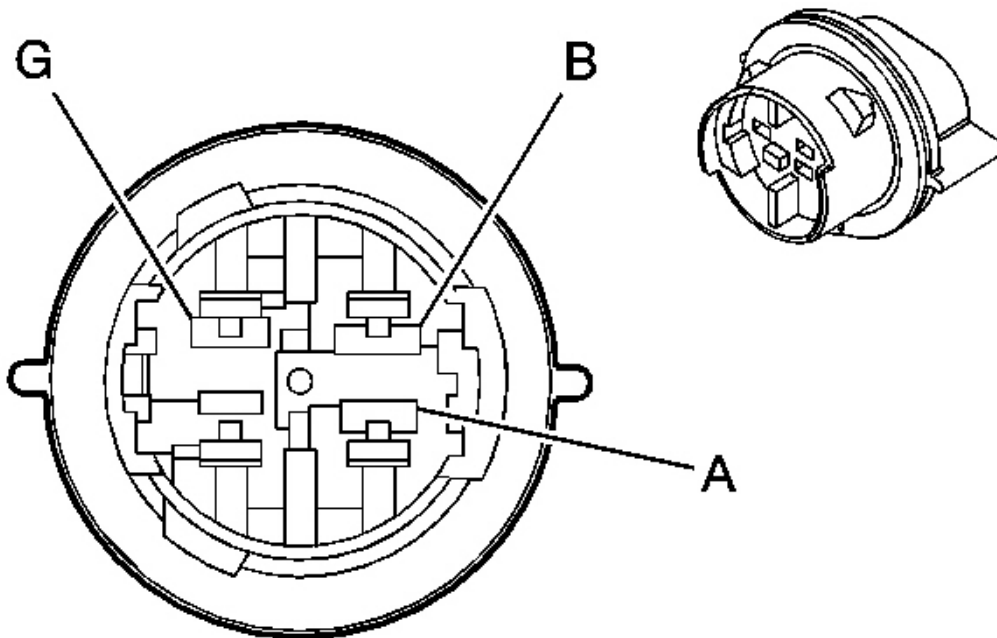


Fig. 80: Tail/Stop Lamp - Left (Export) Connector End View

Courtesy of GENERAL MOTORS CORP.

Tail/Stop Lamp - Left (Export) Connector Parts Information

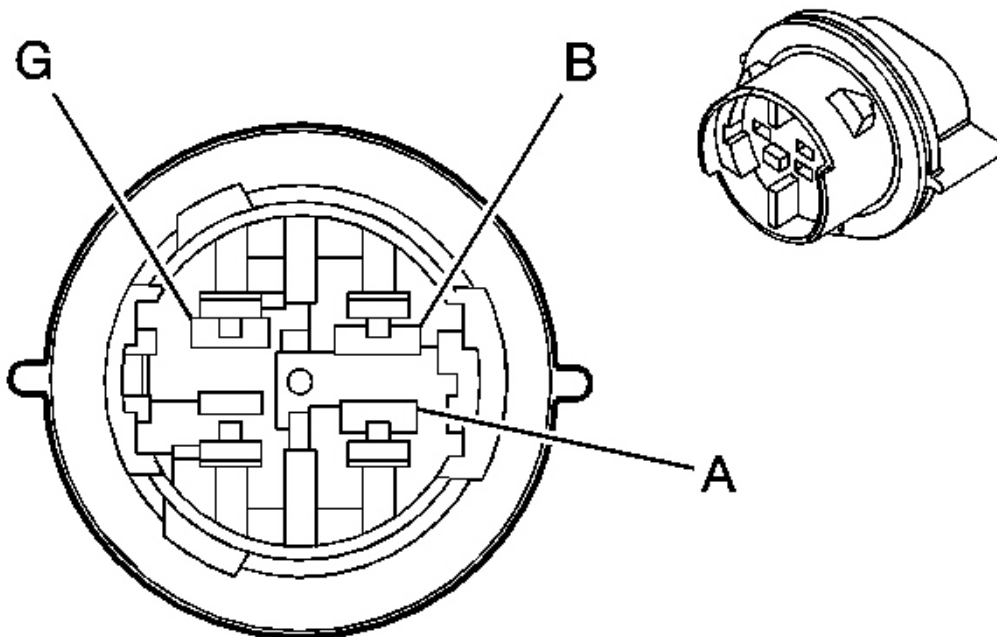
Connector Part Information

- OEM: 16530671
- Service: Not Serviced
- Description: 3-Way F Lamp Socket (D-GY)

Tail/Stop Lamp - Left (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	BN	2509	Left Rear Park Lamp Supply Voltage
B	L-BU	20	Left Rear Stop Lamp Supply Voltage
G	BK	1450	Ground
	BK	1450	Ground

Tail/Stop Lamp - Right (Export)



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Fig. 81: Tail/Stop Lamp - Right (Export) Connector End View
Courtesy of GENERAL MOTORS CORP.

Tail/Stop Lamp - Right (Export) Connector Parts Information

Connector Part Information

- OEM: 16530671
- Service: Not Serviced
- Description: 3-Way F Lamp Socket (D-GY)

Tail/Stop Lamp - Right (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	BN/WH	2609	Right Rear Park Lamp Supply Voltage
B	L-BU	20	Stop Lamp Supply Voltage
G	BK	1450	Ground
	BK	1450	Ground

Trailer Connector (Domestic)

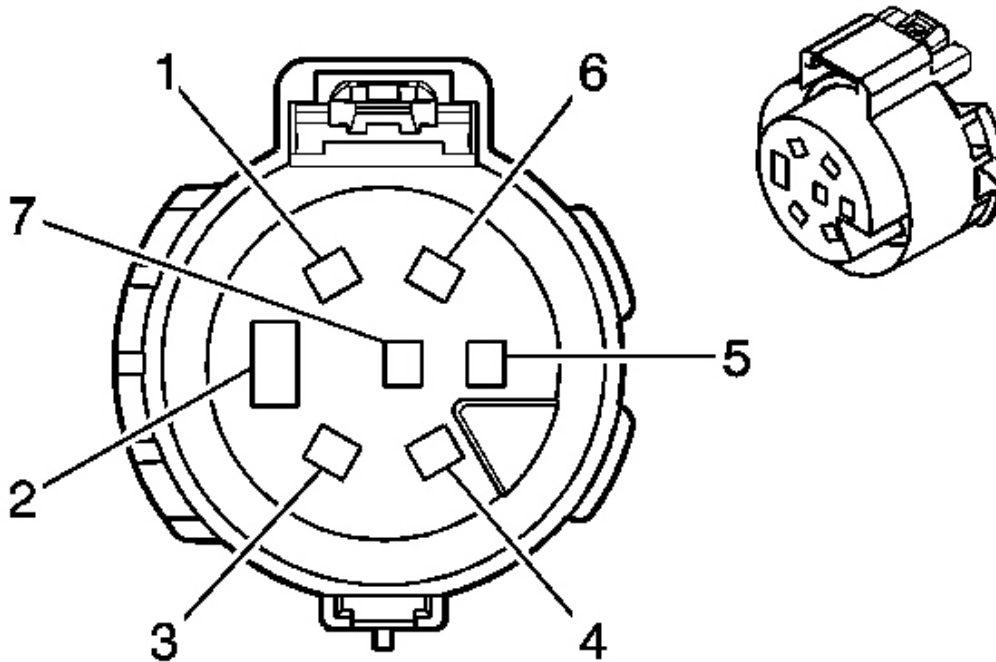


Fig. 82: Trailer (Domestic) Connector End View
 Courtesy of GENERAL MOTORS CORP.

Trailer Connector (Domestic) Connector Parts Information

Connector Part Information

- OEM: 11-894
- Service: 88988703
- Description: 7-Way F Socket (BK)

Terminal Part Information

- Pins: 1, 4
- Terminal/Tray: See Terminal Kit
- Core/Insulation Crimp: See Terminal Kit
- Release Tool/Test Probe: See Terminal Kit
- Pin: 2

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- Terminal/Tray: 54001004/22
- Core/Insulation Crimp: D/1
- Release Tool/Test Probe: 12094429/J-35616-42 (RD)

- Pins: 3-5
- Terminal/Tray: 54001202/22
- Core/Insulation Crimp: 2/D
- Release Tool/Test Probe: 12094429/J-35616-4A (PU)

- Pins: 6-7
- Terminal/Tray: 54001807/22
- Core/Insulation Crimp: 2/4
- Release Tool/Test Probe: 12094429/J-35616-4A (PU)

Trailer Connector (Domestic) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
1	YE	18	Left Rear Stop/Turn Lamp Supply Voltage
2	WH	22	Trailer Ground
3	D-BU	47	Trailer Auxiliary Supply Voltage
4	D-GN	19	Right Rear Stop/Turn Lamp Supply Voltage
5	RD	742	Battery Positive Voltage
6	BN	2109	Trailer Park Lamps Supply Voltage
7	L-GN	24	Backup Lamp Supply Voltage

Trailer Connector (Export)

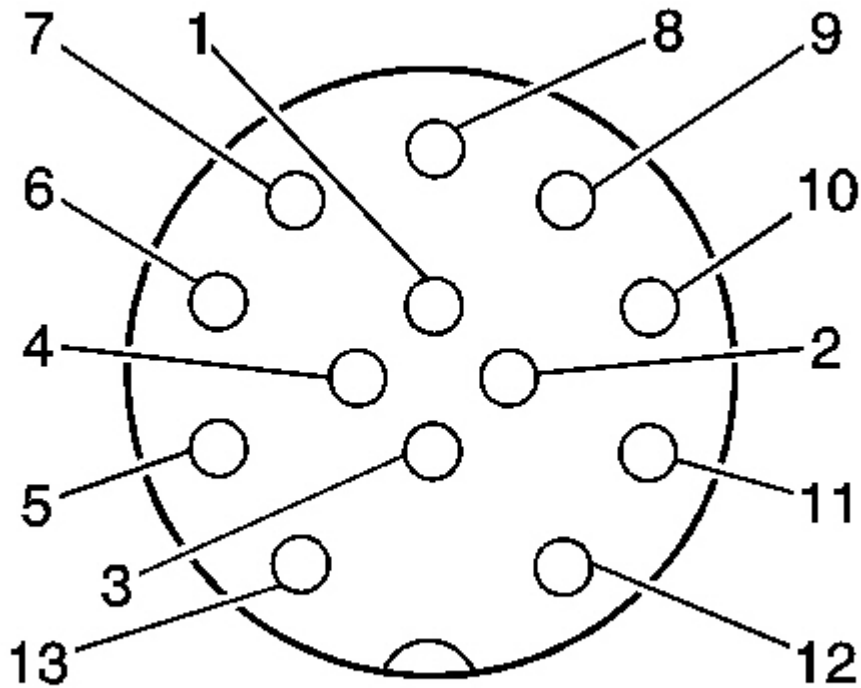


Fig. 83: Trailer Connector (Export) Connector End View
 Courtesy of GENERAL MOTORS CORP.

Trailer Connector (Export) Connector Parts Information

Connector Part Information

- OEM: 380929
- Service:
- Description: 13-Way F Socket (BK)

Terminal Part Information

- Pins: 1, 13
- Terminal/Tray: See Terminal Kit
- Core/Insulation Crimp: See Terminal Kit
- Release Tool/Test Probe: See Terminal Kit

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Trailer Connector (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
1	YE	618	Left Rear Stop/Turn Lamp Supply Voltage
2	OR	122	Rear Fog Lamp Supply Voltage
3	BK	1350	Ground
4	D-GN	619	Right Rear Stop/Turn Lamp Supply Voltage
5	BN	2109	Trailer Park Lamps Supply Voltage
6	D-BU	47	Trailer Auxiliary Supply Voltage
7	BN	9	Park Lamp Supply Voltage
8	L-GN	24	Backup Lamp Supply Voltage
9	RD	742	Battery Positive Voltage
10	YE	543	Accessory Voltage
11	BK	1350	Ground
12	-	-	Not Used
13	WH	22	Trailer Ground

Turn Signal Lamp - Left Front (Export)

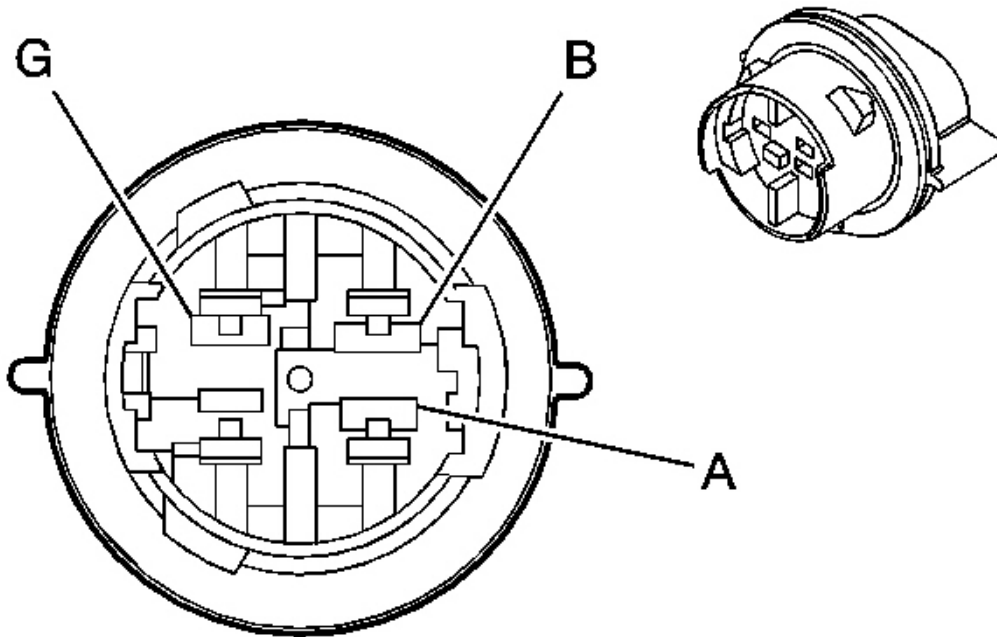


Fig. 84: Turn Signal Lamp - Left Front (Export) Connector End View
 Courtesy of GENERAL MOTORS CORP.

Turn Signal Lamp - Left Front (Export) Connector Parts Information

Connector Part Information

- OEM: 16530672
- Service: See Catalog
- Description: 3-Way F Lamp Socket (D-GY)

Terminal Part Information

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

Turn Signal Lamp - Left Front (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function

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A	D-BU	14	Left Turn Signal Lamp Supply Voltage
B	-	-	Not Used
G	BK	850	Ground

Turn Signal Lamp - Right Front (Export)

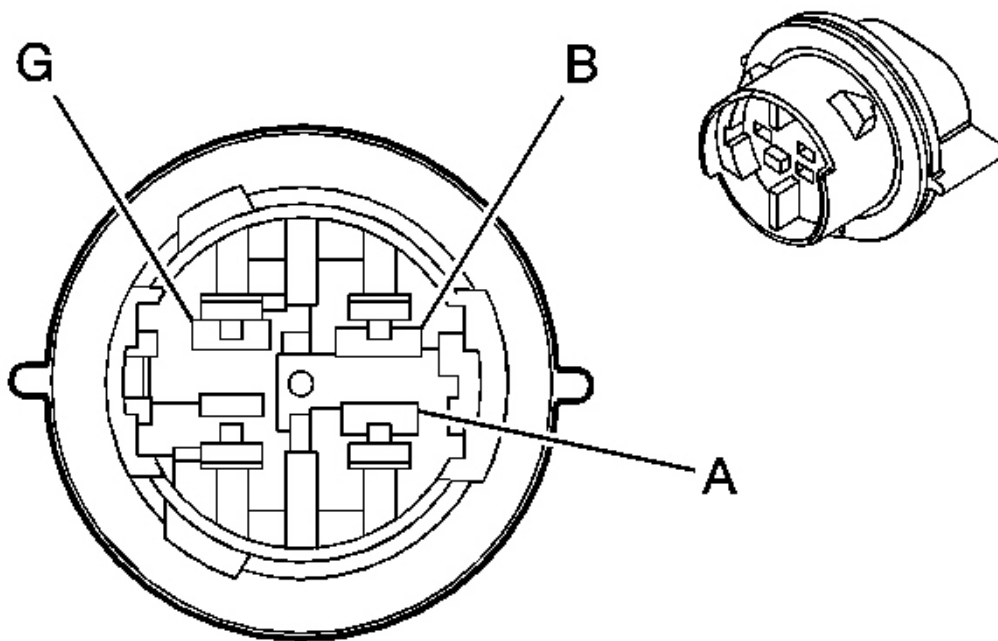


Fig. 85: Turn Signal Lamp - Right Front (Export) Connector End View
Courtesy of GENERAL MOTORS CORP.

Turn Signal Lamp - Right Front (Export) Connector Parts Information

Connector Part Information

- OEM: 16530672
- Service: See Catalog
- Description: 3-Way F Lamp Socket (D-GY)

Terminal Part Information

- Terminal/Tray: See Terminal Repair Kit

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- Core/Insulation Crimp: See Terminal Repair Kit
- Release Tool/Test Probe: See Terminal Repair Kit

Turn Signal Lamp - Right Front (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	D-BU	15	Right Turn Signal Lamp Supply Voltage
B	-	-	Not Used
G	BK	850	Ground

Turn Signal Lamp - Left Rear (Export)

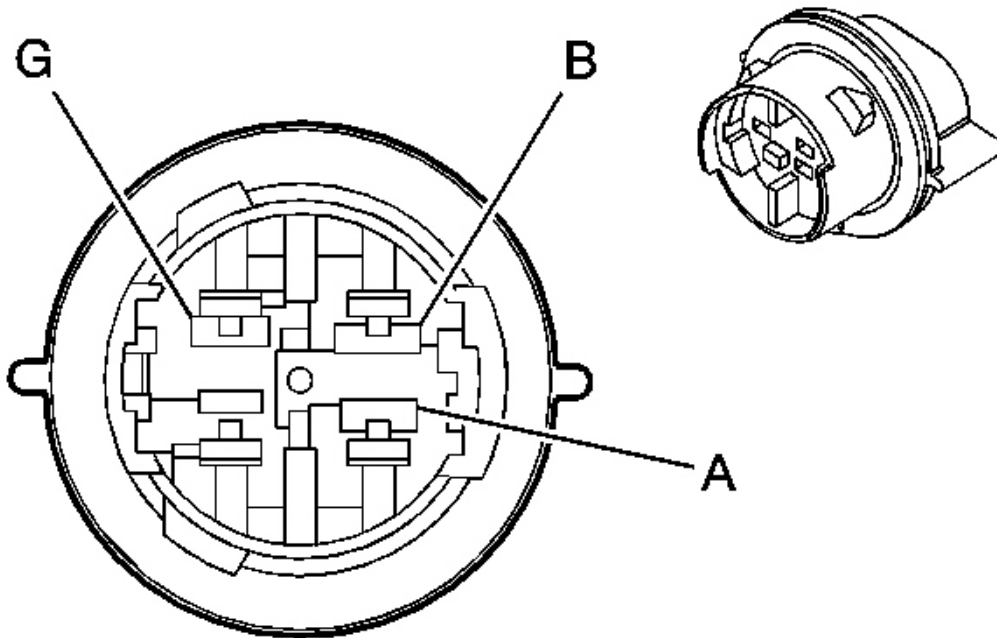


Fig. 86: Turn Signal Lamp - Left Rear (Export) Connector End View
Courtesy of GENERAL MOTORS CORP.

Turn Signal Lamp - Left Rear (Export) Connector Parts Information

Connector Part Information

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- OEM: 16530671
- Service: Not Serviced
- Description: 3-Way F Lamp Socket (D-GY)

Terminal Part Information

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

Turn Signal Lamp - Left Rear (Export) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	YE	618	Left Rear Turn Signal Lamp Supply Voltage
B	-	-	Not Used
G	BK	1450	Ground

Turn Signal Lamp - Right Rear (Export)

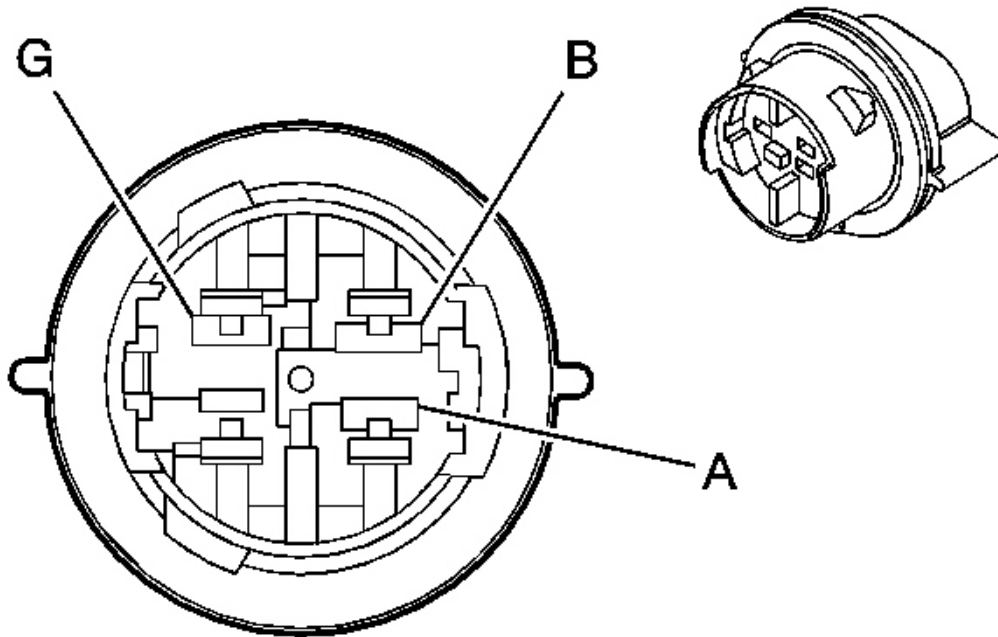


Fig. 87: Turn Signal Lamp - Right Rear (Export) Connector End View
Courtesy of GENERAL MOTORS CORP.

Turn Signal Lamp - Right Rear (Export) Connector Parts Information

Connector Part Information

- OEM: 16530671
- Service: See Catalog
- Description: 3-Way F Lamp Socket (D-GY)

Terminal Part Information

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

Turn Signal Lamp - Right Rear (Export) Connector Terminal Identification

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Pin	Wire Color	Circuit No.	Function
A	D-GN	619	Right Rear Turn Signal Lamp Supply Voltage
B	-	-	Not Used
G	BK	1450	Ground

DIAGNOSTIC INFORMATION AND PROCEDURES**DIAGNOSTIC CODE INDEX****DIAGNOSTIC CODE INDEX**

DTC	Description
<u>DTC B0525 (W/O RPO CW9)</u>	Left Turn Signal Circuit
<u>DTC B0525 (With RPO CW9)</u>	Rear Fog Lamp Relay Fault
<u>DTC B0527, B0528 or B0529</u>	Right Turn Signal Circuit
<u>DTC B0530 (W/O RPO CW9)</u>	Right Turn Signal Circuit
<u>DTC B0532, B0533 or B0534</u>	Left Turn Signal Circuit
<u>DTC B2532 or B2533</u>	Front Fog Lamps Control Circuit
<u>DTC B2557 or B2558</u>	Passenger Compartment Lamp Control Circuit
<u>DTC B2575</u>	Headlamp Control Circuit
<u>DTC B2582 or B2583</u>	Headlamp High Beam Control Circuit
<u>DTC B2585</u>	Park Lamp Control Circuit
<u>DTC B2602 or B2603</u>	Daytime Running Lamp Control Circuit
<u>DTC B2622 or B2623</u>	Dimming Display Pulse Width Modulation (PWM) Input Circuit
<u>DTC B2624</u>	Dimming Display Pulse Width Modulation (PWM) Input Circuit Open
<u>DTC B2647 or B2648</u>	Ambient Light Sensor Circuit

DIAGNOSTIC STARTING POINT - LIGHTING SYSTEMS

Begin the system diagnosis with the **Diagnostic System Check - Vehicle** . The Diagnostic System Check will provide the following information:

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- The identification of the control modules which command the system
- The ability of the control modules to communicate through the serial data circuit
- The identification of any stored DTCs and their status

The use of the Diagnostic System Check will identify the correct procedure for diagnosing the system and where the procedure is located.

SCAN TOOL OUTPUT CONTROLS

Body Control Module (BCM)

Scan Tool Output Control	Additional Menu Selection(s)	Description
Body Control Module	High Beams	The BCM activates the beam select relay illuminating the high beam headlamps and high beam indicator when you select ON while the low beam headlamps are on. The high beam headlamps and indicator remain illuminated for 5 seconds.
Body Control Module	Headlamps	The BCM activates the headlamp relay illuminating the low beam headlamps when you select ON. The low beam headlamps remain illuminated for 5 seconds.
Body Control Module	Parking Lamps	The BCM activates the park lamp relay illuminating the parking lamps when you select ON. The parking lamps remain illuminated for 5 seconds.
Body Control Module	Courtesy Lamps	The BCM activates the interior courtesy lamps when you select ON. The interior courtesy lamps remain illuminated for 5 seconds.
Body Control Module	Front Fog Lamps	The BCM activates the front fog lamp relay illuminating the front fog lamps when you select ON. The front fog lamps remain illuminated for 5 seconds.
Body Control Module	LF Turn Lamp/DRL	The BCM activates the left front turn/DRL lamp when you select ON. The left front turn/DRL lamp remains activated until commanded OFF.
Body Control Module	LR Stop/Turn Signal Lamp	The BCM activates the left rear stop/turn signal lamp and left turn indicator when you select ON. The left rear stop/turn signal lamp and indicator remain activated until commanded OFF.

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Body Control Module	RF Turn Lamp/DRL	The BCM activates the right front turn/DRL lamp when you select ON. The right front turn/DRL lamp remains activated until commanded OFF.
Body Control Module	RR Stop/Turn Signal Lamp	The BCM activates the right rear stop/turn signal lamp and right turn indicator when you select ON. The right rear stop/turn signal lamp and indicator remain activated until commanded OFF.
Body Control Module	Inadvertent Power 1	The BCM disables the inadvertent power supply circuit when you select OFF. The inadvertent power supply circuit remains disabled for 5 seconds.

SCAN TOOL DATA LIST

Body Control Module (BCM)

Scan Tool Parameter	Data List	Units Displayed	Typical Data Value
Ignition ON/Engine OFF/Vehicle in PARK/Park Brake Released/Headlamps in AUTO/All Doors Closed			
Ambient Light Sensor	Data	Volts	1.75 Volts Maximum Light to 4.9 Volts Maximum Dark
Battery Voltage Signal	Data	Volts	Varies
Dimming Potentiometer	Data	Volts	Varies
Courtesy Lamp Switch	Inputs	Active/Inactive	Inactive
Dome Lamp Override Switch	Inputs	On/Off	Off
Driver Door Ajar Sw.	Inputs	Door Closed/Door Ajar	Door Closed
Front Fog Lamp Switch	Inputs	Active/Inactive	Inactive
Front Wipers Active	Inputs	Yes/No	No
Hazard Lamp Switch	Inputs	Active/Inactive	Inactive
Headlamp On Switch	Inputs	Active/Inactive	Inactive
Headlamp Off Switch	Inputs	Active/Inactive	Inactive
High Beam Select Switch	Inputs	Active/Inactive	Inactive
Ignition 1 Run/Crank	Inputs	Active/Inactive	Active
Ignition Off/Run/Crank	Inputs	Active/Inactive	Active
Park Brake Switch	Inputs	Released/Applied	Released

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Park Lamp Switch	Inputs	On/Off	Off
Passenger Door Ajar Sw.	Inputs	Door Closed/Door Ajar	Door Closed
Rear Fog Lamp Switch	Inputs	On/Off	Off
Courtesy Lamp Output	Outputs	On/Off	Off
DRL Status	Outputs	On/Off	Varies
Fog Lamp Relay Cmd.	Outputs	On/Off	Off
Headlamp Relay	Outputs	On/Off	Varies
High Beam Relay Command	Outputs	On/Off	Off
Inadvertent Power Cmd. 1	Outputs	On/Off	On
LF Turn/Hazard Lamp Command	Outputs	On/Off	Off
LR Turn/Hazard Lamp Command	Outputs	On/Off	Off
Park Lamps Signal	Outputs	On/Off	Varies
Rear Fog Lamp Relay Cmd.	Outputs	On/Off	Off
RF Turn/Hazard Lamp Command	Outputs	On/Off	Off
RR Turn/Hazard Lamp Command	Outputs	On/Off	Off

SCAN TOOL DATA DEFINITIONS

Data

Battery Voltage Signal

The scan tool displays the battery system voltage received by the module.

Ambient Light Sensor

The scan tool displays the output voltage of the ambient light sensor based on the intensity of light detected. As the light intensity increases, the sensor displayed voltage decreases. In the LIGHT state, a low voltage, not less than 1.75 volts, is present and the DRL will be ON. In the DARK state, a high voltage, up to 4.9 volts, is present and the headlamps will be ON.

Dimming Potentiometer

The scan tool displays the voltage value indicating the position of the I/P dimmer switch.

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The scan tool displays 4 volts when the headlamp switch is in the AUTO position and the daytime running lamps (DRL) are ON or the I/P dimmer switch is in the FULL DIM position. The scan tool displays 0 volts when either the park lamps or the headlamps are turned ON and the I/P dimmer switch is in the FULL BRIGHT position.

Inputs

Ignition Off/Run/Crank

The scan tool displays the position of the ignition switch. The scan tool displays Active when the ignition switch is in the RUN or CRANK position.

Ignition 1 Run/Crank

The scan tool displays the position of the ignition switch. The scan tool displays Active when the ignition switch is in the RUN or CRANK position.

Driver Door Ajar Sw.

The scan tool displays the position of the driver door ajar switch. The scan tool displays Door Closed when the door is closed and Door Ajar when the door is open or ajar. The BCM uses this data in controlling the operation of the courtesy lamps and door ajar warning.

Passenger Door Ajar Sw.

The scan tool displays the position of the passenger door ajar switch. The scan tool displays Door Closed when the door is closed and Door Ajar when the door is open or ajar. The BCM uses this data in controlling the operation of the courtesy lamps and door ajar warning.

High Beam Select Switch

The scan tool displays the position of the high beam select switch. The scan tool displays Active when the switch is used to activate the high beams.

Headlamp On Switch

The scan tool displays the position of the headlamp switch. The scan tool displays Active when the headlamp switch is in the ON position. The BCM uses this data in controlling the operation of the headlamps.

Headlamp Off Switch

The scan tool displays the position of the headlamp switch. The scan tool displays Active when the headlamp switch is in the ON position. The BCM uses this data in controlling the operation of the headlamps.

Front Fog Lamp Switch

The scan tool displays the position of the front fog lamp switch. The scan tool displays ACTIVE when the switch is pressed. The BCM uses this data in controlling the operation of the front fog lamps.

Courtesy Lamp Switch

The scan tool displays the position of the courtesy lamp switch. The scan tool displays ACTIVE when the switch is activated. The BCM uses this data in controlling the operation of the courtesy lamps.

Dome Lamp Override Switch

The scan tool displays the position of the dome override switch. The scan tool displays On when the switch is pressed. The BCM uses this data in controlling the operation of the courtesy lamps.

Cargo Lamp Switch

The scan tool displays the position of the cargo lamp switch. The scan tool displays ACTIVE when the switch is pressed. The BCM uses this data in controlling the operation of the cargo lamp.

Hazard Lamp Switch

The scan tool displays the position of the hazard lamp switch. The scan tool displays ACTIVE when the switch is pressed. The BCM uses this data in controlling the operation of the hazard lamps.

Park Lamp Switch

The scan tool displays the position of the park lamp switch. The scan tool displays ON when the park lamp switch is in the ON position. The BCM uses this data in controlling the operation of the park lamps.

Park Brake Switch

The scan tool displays the position of the park brake pedal. The scan tool displays Applied when the park brake is engaged closing the switch. The BCM uses this data in controlling the operation of the park brake indicator, the reminder chime feature and the DRL system.

Front Wipers Active

The scan tool displays the status of the front wipers. The scan tool displays Yes after approximately the first 3 cycles of the wiper blades. The BCM uses this data in controlling the headlamps during Wiper Activated Headlamp (WAH) mode.

Outputs**Inadvertent Power Cmd. 1**

The scan tool displays the state of the inadvertent power battery rundown protection feature of the BCM. The scan tool displays On when all inadvertent power circuits are functioning normally.

LF Turn/Hazard Lamp Command

The scan tool displays the commanded state of the left front turn/hazard lamp. The scan tool displays ON when the BCM activates the left front turn/hazard supply voltage circuit.

LR Turn/Hazard Lamp Command

The scan tool displays the commanded state of the left rear turn/hazard lamp. The scan tool displays ON when the BCM activates the left rear turn/hazard supply voltage circuit.

RF Turn/Hazard Lamp Command

The scan tool displays the commanded state of the right front turn/hazard lamp. The scan tool displays ON when the BCM activates the right front turn/hazard supply voltage circuit.

RR Turn/Hazard Lamp Command

The scan tool displays the commanded state of the right rear turn/hazard lamp. The scan tool displays ON when the BCM activates the right rear turn/hazard supply voltage circuit.

DRL Status

The scan tool displays the commanded state of the daytime running lamps (DRL). The scan tool displays ON when the BCM activates the DRL mode.

Headlamp Relay

The scan tool displays the commanded state of the headlamp relay. The scan tool displays ON when the BCM grounds the headlamp relay to activate the headlamps.

High Beam Relay Command

The scan tool displays the commanded state of the high beam relay. The scan tool displays On when the BCM has activated the high beam relay to illuminate the high beam headlamps.

Park Lamps Signal

The scan tool displays the commanded state of the park lamp relay. The scan tool displays ON when the BCM activates the park lamp relay to illuminate the park lamps.

Courtesy Lamp Output

The scan tool displays the commanded state of the BCM to activate the courtesy lamps. The scan tool displays ON when the BCM energizes the courtesy lamps supply voltage circuit to illuminate the courtesy lamps.

Fog Lamp Relay Cmd.

The scan tool displays the commanded state of the fog lamp relay. The scan tool displays ON when the BCM energizes the fog lamp relay to activate the fog lamps.

DTC B0525 (W/O RPO CW9)

Circuit Description

When the body control module (BCM) receives a left turn signal ON command from the turn signal switch, the BCM will apply voltage to the left turn signal indicator supply voltage circuit. The turn signal flasher, which is integrated within the BCM, will flash the left turn signal indicator lamp in the instrument panel cluster (IPC) simultaneously with the turn signal lamps.

DTC Descriptor

This diagnostic procedure supports the following DTC:

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DTC B0525 Left Turn Signal Circuit

Conditions for Running the DTC

The battery voltage must be between 9-16 volts.

Conditions for Setting the DTC

When the BCM receives a left turn signal command and the left turn signal indicator supply voltage circuit is open, shorted to ground or shorted to voltage

Action Taken When the DTC Sets

The left turn signal indicator in the IPC will not operate or will remain always ON.

Conditions for Clearing the MIL/DTC

- This DTC will clear on current status after the condition for setting the fault is corrected.
- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- History and current DTCs can be cleared using a scan tool.

Test Description

The numbers below refer to the step numbers on the diagnostic table.

4: This step tests if battery positive voltage is constantly being applied to the supply voltage circuit.

5: This step tests if a condition exists in the supply voltage circuit.

6: This step tests if a condition exists in the ground circuit.

10: After replacement of the IPC, you must calibrate the new cluster for proper operation.

11: After replacement of the BCM, you must calibrate the new module for proper operation.

DTC B0525 (W/O RPO CW9)

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views, Displays and Gages Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?		Go to Diagnostic

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		Go to Step 2	<u>System Check - Vehicle</u>
2	<ol style="list-style-type: none"> 1. Turn ON the ignition, with the engine OFF. 2. Activate the turn signals. <p>Do the exterior turn signals operate correctly?</p>	Go to Step 3	Go to <u>Symptoms - Lighting Systems</u>
3	<ol style="list-style-type: none"> 1. Turn OFF the ignition. 2. Remove the instrument panel cluster (IPC). Refer to <u>Instrument Cluster Replacement (Left Hand Drive)</u> or <u>Instrument Cluster Replacement (Right Hand Drive)</u> . 3. Turn ON the ignition, with the engine OFF. 4. Connect a test lamp between the ground circuit and the left turn signal indicator supply voltage circuit at the IPC connector. 5. Activate the inoperative turn signal ON and OFF. <p>Does the test lamp illuminate?</p>	Go to Step 4	Go to Step 5
4	<p>Does the test lamp remain illuminated with each command?</p>	Go to Step 7	Go to Step 8
5	<p>Test for a short to ground, open or high resistance in the left turn signal indicator supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 12	Go to Step 6
6	<p>Test for an open or high resistance in the ground circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 12	Go to Step 9
7	<p>Test the left turn signal indicator supply voltage circuit for a short to voltage. Refer</p>		

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	to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 12	Go to Step 9
8	Inspect for poor connections at the IPC. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 12	Go to Step 10
9	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 12	Go to Step 11
10	Replace the IPC. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 12	-
11	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 12	-
12	<ol style="list-style-type: none"> 1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text. Does the DTC reset?	Go to Step 2	System OK

DTC B0525 (WITH RPO CW9)

Circuit Description

When the body control module (BCM) senses that the rear fog lamp switch signal circuit is grounded momentarily by pressing the rear fog lamp switch, the BCM energizes the rear fog lamp relay by grounding the rear fog lamp relay control circuit. The rear fog lamp indicator is also illuminated.

DTC Descriptor

This diagnostic procedure supports the following DTC:

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DTC B0525 Rear Fog Lamp Relay Fault

Conditions for Running the DTC

The battery voltage must be between 9-16 volts.

Conditions for Setting the DTC

- When the BCM receives a rear fog lamp switch OFF command and the rear fog lamp relay control circuit is shorted to ground
- When the BCM receives a rear fog lamp switch ON command and the rear fog lamp relay control circuit is shorted to voltage or open

Action Taken When the DTC Sets

The rear fog lamps will not operate or will remain always ON.

Conditions for Clearing the MIL/DTC

- This DTC will clear on current status after the condition for setting the fault is corrected.
- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- History and current DTCs can be cleared using a scan tool.

Test Description

The numbers below refer to the step numbers on the diagnostic table.

2: Listen for an audible click when the rear fog lamp relay operates. Command both the ON and OFF states. Repeat the commands as necessary.

3: This step tests for ground at the coil side of the rear fog lamp relay.

4: This step verifies that the BCM is providing battery positive voltage to the rear fog lamp relay.

5: This step tests if battery positive voltage is constantly being applied to the rear fog lamp relay.

6: This step tests if a condition exists in the rear fog lamp relay control circuit.

12: After replacement of the BCM, you must calibrate the new module for proper operation.

DTC B0525 (With RPO CW9)

Step	Action	Yes	No

Schematic Reference: Fog Lights Schematics

Connector End View Reference: Lighting Systems Connector End Views or Data Communication Connector End Views

1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	<ol style="list-style-type: none"> 1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, command the rear fog lamp relay ON and OFF. <p>Does the rear fog lamp relay turn ON and OFF with each command?</p>	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	<ol style="list-style-type: none"> 1. Turn OFF the ignition. 2. Remove the rear fog lamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u>. 3. Turn ON the ignition, with the engine OFF. 4. Connect a test lamp between the ground circuit of the rear fog lamp relay and the battery positive voltage circuit of the rear fog lamp relay. <p>Does the test lamp illuminate?</p>	Go to Step 4	Go to Step 10
4	<ol style="list-style-type: none"> 1. Connect a test lamp between the control circuit of the rear fog lamp relay and the ground circuit of the rear fog lamp relay. 2. With a scan tool, command the rear fog lamp relay ON and OFF. <p>Does the test lamp turn ON and OFF with</p>		

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	each command?	Go to Step 8	Go to Step 5
5	Does the test lamp remain illuminated with each command?	Go to Step 7	Go to Step 6
6	Test for a short to ground, an open or high resistance in the rear fog lamp relay control circuit and rear fog lamp switch indicator control circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 9
7	Test for a short to voltage in the rear fog lamp relay control circuit and rear fog lamp switch indicator control circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 9
8	Inspect for poor connections at the rear fog lamp relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 11
9	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 12
10	Repair the open or high resistance in the ground circuit of the rear fog lamp relay. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 13	-
11	Replace the rear fog lamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Did you complete the replacement?	Go to Step 13	-
12	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 13	-
	1. Use the scan tool in order to clear the DTCs.		

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13	2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text.		
	Does the DTC reset?	Go to Step 2	System OK

DTC B0527, B0528 OR B0529

Circuit Description

When the body control module (BCM) receives a right turn signal ON command from the turn signal switch, the BCM will apply voltage to the right rear stop/turn lamp supply voltage circuit and right turn signal lamps supply voltage circuit. The turn signal flasher is integrated within the BCM and will flash both circuits simultaneously. The turn signal indicator is also illuminated utilizing the right rear stop/turn lamp supply voltage circuit.

DTC Descriptors

This diagnostic procedure supports the following DTCs:

- DTC B0527 Right Turn Signal Circuit Low
- DTC B0528 Right Turn Signal Circuit High
- DTC B0529 Right Turn Signal Circuit Open

Conditions for Running the DTC

The battery voltage must be between 9-16 volts.

Conditions for Setting the DTC

- When the BCM receives a right turn signal command and the right rear stop/turn lamp supply voltage circuit is open, shorted to ground or shorted to voltage
- When the BCM receives a right turn signal command and the right turn signal lamps supply voltage circuit is shorted to ground or shorted to voltage

Action Taken When the DTC Sets

The right front and/or right rear turn signals will not operate or will remain always ON.

Conditions for Clearing the MIL/DTC

- This DTC will clear on current status after the condition for setting the fault is corrected.

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- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- History and current DTCs can be cleared using a scan tool.

Test Description

The numbers below refer to the step numbers on the diagnostic table.

3: This step tests for supply voltage and ground at the inoperative bulb socket.

4: This step tests if battery positive voltage is constantly being applied to the supply voltage circuit.

5: This step tests if a condition exists in the supply voltage circuit.

6: This step tests if a condition exists in the ground circuit.

12: After replacement of the instrument panel cluster (IPC), you must calibrate the new cluster for proper operation.

14: After replacement of the BCM, you must calibrate the new module for proper operation.

DTC B0527, B0528 or B0529

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views, Displays and Gages Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, command the inoperative turn signal ON and OFF. Does the inoperative turn signal operate ON and OFF with each command?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
	1. Turn OFF the ignition. 2. Remove the inoperative bulb. Refer to <u>Daytime Running Lamp Bulb</u>		

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<p align="center">3</p>	<p><u>Replacement, Tail Lamp Bulb Replacement, Instrument Cluster Replacement (Left Hand Drive) or Instrument Cluster Replacement (Right Hand Drive) .</u></p> <p>3. Turn ON the ignition, with the engine OFF.</p> <p>4. Connect a test lamp between the ground circuit and the supply voltage circuit of the inoperative bulb socket.</p> <p>5. With a scan tool, command the inoperative turn signal ON and OFF.</p> <p>Does the test lamp illuminate?</p>	<p align="center">Go to Step 4</p>	<p align="center">Go to Step 5</p>
<p align="center">4</p>	<p>Does the test lamp remain illuminated with each command?</p>	<p align="center">Go to Step 7</p>	<p align="center">Go to Step 8</p>
<p align="center">5</p>	<p>Test for a short to ground, open or high resistance in the supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	<p align="center">Go to Step 15</p>	<p align="center">Go to Step 6</p>
<p align="center">6</p>	<p>Test for an open or high resistance in the ground circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	<p align="center">Go to Step 15</p>	<p align="center">Go to Step 11</p>
<p align="center">7</p>	<p>Test the supply voltage circuit for a short to voltage. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	<p align="center">Go to Step 15</p>	<p align="center">Go to Step 11</p>
<p align="center">8</p>	<p>Does the condition only exist with the turn signal indicator in the instrument panel cluster (IPC)?</p>	<p align="center">Go to Step 9</p>	<p align="center">Go to Step 10</p>
<p align="center">9</p>	<p>Inspect for poor connections at the IPC. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	<p align="center">Go to Step 15</p>	<p align="center">Go to Step 12</p>
	<p>Inspect for poor connections at the inoperative bulb socket. Refer to <u>Circuit</u></p>		

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10	Testing and Wiring Repairs . Did you find and correct the condition?	Go to Step 15	Go to Step 13
11	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to Circuit Testing and Wiring Repairs . Did you find and correct the condition?	Go to Step 15	Go to Step 14
12	Replace the IPC. Refer to Control Module References for replacement, setup and programming. Did you complete the replacement?	Go to Step 15	-
13	Replace the inoperative bulb. Refer to Daytime Running Lamp Bulb Replacement or Tail Lamp Bulb Replacement. Did you complete the replacement?	Go to Step 15	-
14	Replace the BCM. Refer to Control Module References for replacement, setup and programming. Did you complete the replacement?	Go to Step 15	-
15	<ol style="list-style-type: none"> 1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text. Does the DTC reset?	Go to Step 2	System OK

DTC B0530 (W/O RPO CW9)

Circuit Description

When the body control module (BCM) receives a right turn signal ON command from the turn signal switch, the BCM will apply voltage to the right turn signal indicator supply voltage circuit. The turn signal flasher, which is integrated within the BCM, will flash the right turn signal indicator lamp in the instrument panel cluster (IPC) simultaneously with the turn signal lamps.

DTC Descriptor

This diagnostic procedure supports the following DTC:

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DTC B0530 Right Turn Signal Circuit

Conditions for Running the DTC

The battery voltage must be between 9-16 volts.

Conditions for Setting the DTC

When the BCM receives a right turn signal command and the right turn signal indicator supply voltage circuit is open, shorted to ground or shorted to voltage

Action Taken When the DTC Sets

The right turn signal indicator in the IPC will not operate or will remain always ON.

Conditions for Clearing the MIL/DTC

- This DTC will clear on current status after the condition for setting the fault is corrected.
- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- History and current DTCs can be cleared using a scan tool.

Test Description

The numbers below refer to the step numbers on the diagnostic table.

4: This step tests if battery positive voltage is constantly being applied to the supply voltage circuit.

5: This step tests if a condition exists in the supply voltage circuit.

6: This step tests if a condition exists in the ground circuit.

10: After replacement of the IPC, you must calibrate the new cluster for proper operation.

11: After replacement of the BCM, you must calibrate the new module for proper operation.

DTC B0530 (W/O RPO CW9)

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views, Displays and Gages Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?		Go to Diagnostic

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		Go to Step 2	<u>System Check - Vehicle</u>
2	<ol style="list-style-type: none"> 1. Turn ON the ignition, with the engine OFF. 2. Activate the turn signals. <p>Do the exterior turn signals operate correctly?</p>	Go to Step 3	Go to <u>Symptoms - Lighting Systems</u>
3	<ol style="list-style-type: none"> 1. Turn OFF the ignition. 2. Remove the instrument panel cluster (IPC). Refer to <u>Instrument Cluster Replacement (Left Hand Drive)</u> or <u>Instrument Cluster Replacement (Right Hand Drive)</u> . 3. Turn ON the ignition, with the engine OFF. 4. Connect a test lamp between the ground circuit and the right turn signal indicator supply voltage circuit at the IPC connector. 5. Activate the inoperative turn signal ON and OFF. <p>Does the test lamp illuminate?</p>	Go to Step 4	Go to Step 5
4	<p>Does the test lamp remain illuminated with each command?</p>	Go to Step 7	Go to Step 8
5	<p>Test for a short to ground, open or high resistance in the right turn signal indicator supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 12	Go to Step 6
6	<p>Test for an open or high resistance in the ground circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 12	Go to Step 9
7	<p>Test the right turn signal indicator supply voltage circuit for a short to voltage. Refer</p>		

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	to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 12	Go to Step 9
8	Inspect for poor connections at the IPC. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 12	Go to Step 10
9	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 12	Go to Step 11
10	Replace the IPC. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 12	-
11	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 12	-
12	<ol style="list-style-type: none"> 1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text. Does the DTC reset?	Go to Step 2	System OK

DTC B0532, B0533 OR B0534

Circuit Description

When the body control module (BCM) receives a left turn signal ON command from the turn signal switch, the BCM will apply voltage to the left rear stop/turn lamp supply voltage circuit and left turn signal lamps supply voltage circuit. The turn signal flasher is integrated within the BCM and will flash both circuits simultaneously. The turn signal indicator is also illuminated utilizing the left rear stop/turn lamp supply voltage circuit.

DTC Descriptors

This diagnostic procedure supports the following DTCs:

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- DTC B0532 Left Turn Signal Circuit Low
- DTC B0533 Left Turn Signal Circuit High
- DTC B0534 Left Turn Signal Circuit Open

Conditions for Running the DTC

The battery voltage must be between 9-16 volts.

Conditions for Setting the DTC

- When the BCM receives a left turn signal command and the left rear stop/turn lamp supply voltage circuit is open, shorted to ground or shorted to voltage
- When the BCM receives a left turn signal command and the left turn signal lamps supply voltage circuit is shorted to ground or shorted to voltage

Action Taken When the DTC Sets

The left front and/or left rear turn signals will not operate or will remain always ON.

Conditions for Clearing the MIL/DTC

- This DTC will clear on current status after the condition for setting the fault is corrected.
- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- History and current DTCs can be cleared using a scan tool.

Test Description

The numbers below refer to the step numbers on the diagnostic table.

3: This step tests for supply voltage and ground at the inoperative bulb socket.

4: This step tests if battery positive voltage is constantly being applied to the supply voltage circuit.

5: This step tests if a condition exists in the supply voltage circuit.

6: This step tests if a condition exists in the ground circuit.

12: After replacement of the instrument panel cluster (IPC), you must calibrate the new cluster for proper operation.

14: After replacement of the BCM, you must calibrate the new module for proper operation.

DTC B0532, B0533 or B0534

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Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views, Displays and Gages Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, command the inoperative turn signal ON and OFF. Does the inoperative turn signal operate ON and OFF with each command?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	1. Turn OFF the ignition. 2. Remove the inoperative bulb. Refer to <u>Daytime Running Lamp Bulb Replacement, Tail Lamp Bulb Replacement, Instrument Cluster Replacement (Left Hand Drive)</u> or <u>Instrument Cluster Replacement (Right Hand Drive)</u> . 3. Turn ON the ignition, with the engine OFF. 4. Connect a test lamp between the ground circuit and the supply voltage circuit of the inoperative bulb socket. 5. With a scan tool, command the inoperative turn signal ON and OFF. Does the test lamp illuminate?	Go to Step 4	Go to Step 5
4	Does the test lamp remain illuminated with each command?	Go to Step 7	Go to Step 8
	Test for a short to ground, open or high resistance in the supply voltage circuit.		

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5	Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 15	Go to Step 6
6	Test for an open or high resistance in the ground circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 15	Go to Step 11
7	Test the supply voltage circuit for a short to voltage. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 15	Go to Step 11
8	Does the condition only exist with the turn signal indicator in the instrument panel cluster (IPC)?	Go to Step 9	Go to Step 10
9	Inspect for poor connections at the IPC. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 15	Go to Step 12
10	Inspect for poor connections at the inoperative bulb socket. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 15	Go to Step 13
11	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 15	Go to Step 14
12	Replace the IPC. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 15	-
13	Replace the inoperative bulb. Refer To <u>Daytime Running Lamp Bulb Replacement</u> or <u>Tail Lamp Bulb Replacement</u> . Did you complete the replacement?	Go to Step 15	-
	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup		

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14	and programming. Did you complete the replacement?	Go to Step 15	-
15	1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text. Does the DTC reset?	Go to Step 2	System OK

DTC B2532 OR B2533

Circuit Description

When the body control module (BCM) senses that the front fog lamp switch signal circuit is grounded momentarily by pressing the front fog lamp switch, the BCM energizes the front fog lamp relay by grounding the front fog lamp relay control circuit. The front fog lamp indicator is also illuminated utilizing the same fog lamp relay control circuit.

DTC Descriptors

This diagnostic procedure supports the following DTCs:

- DTC B2532 Front Fog Lamps Control Circuit Low
- DTC B2533 Front Fog Lamps Control Circuit High

Conditions for Running the DTC

The battery voltage must be between 9-16 volts.

Conditions for Setting the DTC

- When the BCM receives a front fog lamp switch OFF command and the front fog lamp relay control circuit is shorted to ground
- When the BCM receives a front fog lamp switch ON command and the front fog lamp relay control circuit is shorted to voltage or open

Action Taken When the DTC Sets

The front fog lamps will not operate or will remain always ON.

Conditions for Clearing the MIL/DTC

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- This DTC will clear on current status after the condition for setting the fault is corrected.
- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- History and current DTCs can be cleared using a scan tool.

Test Description

The numbers below refer to the step numbers on the diagnostic table.

2: Listen for an audible click when the front fog lamp relay operates. Command both the ON and OFF states. Repeat the commands as necessary.

3: This step tests for ground at the coil side of the front fog lamp relay.

4: This step verifies that the BCM is providing battery positive voltage to the front fog lamp relay.

5: This step tests if battery positive voltage is constantly being applied to the front fog lamp relay.

6: This step tests if a condition exists in the front fog lamp relay control circuit.

12: After replacement of the BCM, you must calibrate the new module for proper operation.

DTC B2532 or B2533

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, command the front fog lamp relay ON and OFF. Does the front fog lamp relay turn ON and OFF with each command?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
	1. Turn OFF the ignition.		

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<p align="center">3</p>	<p>2. Remove the front fog lamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> .</p> <p>3. Turn ON the ignition, with the engine OFF.</p> <p>4. Connect a test lamp between the ground circuit of the front fog lamp relay and the battery positive voltage circuit of the front fog lamp relay.</p> <p>Does the test lamp illuminate?</p>	<p align="center">Go to Step 4</p>	<p align="center">Go to Step 10</p>
<p align="center">4</p>	<p>1. Connect a test lamp between the control circuit of the front fog lamp relay and the ground circuit of the front fog lamp relay.</p> <p>2. With a scan tool, command the front fog lamp relay ON and OFF.</p> <p>Does the test lamp turn ON and OFF with each command?</p>	<p align="center">Go to Step 8</p>	<p align="center">Go to Step 5</p>
<p align="center">5</p>	<p>Does the test lamp remain illuminated with each command?</p>	<p align="center">Go to Step 7</p>	<p align="center">Go to Step 6</p>
<p align="center">6</p>	<p>Test for a short to ground, an open or high resistance in the fog lamp relay control circuit and fog lamp switch indicator control circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	<p align="center">Go to Step 13</p>	<p align="center">Go to Step 9</p>
<p align="center">7</p>	<p>Test for a short to voltage in the fog lamp relay control circuit and fog lamp switch indicator control circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	<p align="center">Go to Step 13</p>	<p align="center">Go to Step 9</p>
<p align="center">8</p>	<p>Inspect for poor connections at the front fog lamp relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p>		

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	Did you find and correct the condition?	Go to Step 13	Go to Step 11
9	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 12
10	Repair the open or high resistance in the ground circuit of the front fog lamp relay. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 13	-
11	Replace the front fog lamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Did you complete the replacement?	Go to Step 13	-
12	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 13	-
13	1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text. Does the DTC reset?	Go to Step 2	System OK

DTC B2557 OR B2558

Circuit Description

The body control module (BCM) receives a ground signal from the door jamb or dome lamp switches requesting courtesy/dome lamp illumination. When this occurs, the BCM directly sends a voltage through the inadvertent power supply voltage circuit illuminating the courtesy/dome lamps.

DTC Descriptors

This diagnostic procedure supports the following DTCs:

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- DTC B2557 Passenger Compartment Lamp Control Circuit Low
- DTC B2558 Passenger Compartment Lamp Control Circuit High

Conditions for Running the DTC

The battery voltage must be between 9-16 volts.

Conditions for Setting the DTC

- When the BCM receives a courtesy lamp illumination request signal and the inadvertent power supply voltage circuit is shorted to ground
- When the BCM is not receiving a courtesy lamp illumination request signal and the inadvertent power supply voltage circuit is shorted to voltage
- There is a loss of the underhood fuse block truck body controller (TBC) battery supply voltage to the BCM for more than 1 second.

Action Taken When the DTC Sets

The courtesy/dome lamps will not operate or are always ON.

Conditions for Clearing the MIL/DTC

- This DTC will clear on current status after the condition for setting the fault is corrected.
- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- History and current DTCs can be cleared using a scan tool.

Diagnostic Aids

Perform a visual inspection for loose or poor connections at all related components. Refer to **Testing for Intermittent Conditions and Poor Connections** .

Test Description

The numbers below refer to the step numbers on the diagnostic table.

- 2: This step determines if the problem exists in the wiring.
- 3: This step determines if a condition exist in the TBC battery voltage supply circuit.
- 5: After replacement of the BCM, you must calibrate the new module for proper operation.

DTC B2557 or B2558

Step	Action	Yes	No
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Schematic Reference: Interior Lights Schematics

Connector End View Reference: Lighting Systems Connector End Views or Data Communication Connector End Views

1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Test the inadvertent power supply voltage circuit for a short to voltage or short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 6	Go to Step 3
3	Test the truck body controller (TBC) battery positive supply voltage circuit for a short to ground, open or high resistance. Refer to <u>Circuit Testing</u> . Did you find and correct the condition?	Go to Step 6	Go to Step 4
4	Inspect for poor connections at the harness connectors of the body control module (BCM). Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> . Did you find and correct the condition?	Go to Step 6	Go to Step 5
5	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 6	-
6	1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text. Does the DTC reset?	Go to Step 2	System OK

DTC B2575

Circuit Description

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When the body control module (BCM) senses a request for headlamp or daytime running lamp (DRL) illumination, the BCM sends a ground signal to the headlamp relay through the low beam headlamp relay control circuit. The headlamp relay will illuminate the low beam headlamps.

DTC Descriptor

This diagnostic procedure supports the following DTC:

DTC B2575 Headlamp Control Circuit

Conditions for Running the DTC

The battery voltage must be between 9-16 volts.

Conditions for Setting the DTC

- When the BCM receives a command to illuminate the headlamps and the headlamp low beam relay control circuit is open or shorted to voltage
- When the BCM does not receive a command to illuminate the headlamps and the headlamp low beam relay control circuit is shorted to ground

Action Taken When the DTC Sets

The headlamps will not operate or will remain always ON.

Conditions for Clearing the MIL/DTC

- This DTC will clear on current status after the condition for setting the fault is corrected.
- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- History and current DTCs can be cleared using a scan tool.

Test Description

The numbers below refer to the step numbers on the diagnostic table.

- 3:** This step tests for voltage at the voltage supply side of the headlamp relay.
- 4:** This step verifies that the BCM is providing ground to the headlamp relay.
- 5:** This step tests if ground is constantly being applied to the headlamp relay.
- 6:** This step tests if there is opposing voltage present or an open low beam headlamp relay control circuit.
- 12:** After replacement of the BCM, you must calibrate the new module for proper

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operation.

DTC B2575

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, command the headlamps ON and OFF. Does the headlamp relay turn ON and OFF with each command?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	1. Turn OFF the ignition. 2. Disconnect the headlamp relay. 3. Turn ON the ignition, with the engine OFF. 4. Probe the battery positive voltage circuit of the headlamp relay with a test lamp that is connected to a good ground. Does the test lamp illuminate?	Go to Step 4	Go to Step 10
4	1. Connect a test lamp between the control circuit of the headlamp relay and the battery positive voltage circuit of the headlamp relay. 2. With a scan tool, command the headlamps ON and OFF. Does the test lamp turn ON and OFF with		

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	each command?	Go to Step 8	Go to Step 5
5	Does the test lamp remain illuminated with each command?	Go to Step 7	Go to Step 6
6	Test the control circuit of the headlamp relay for a short to voltage or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 9
7	Test the control circuit of the headlamp relay for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 9
8	Inspect for poor connections at the headlamp relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 11
9	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 12
10	Repair the battery positive voltage circuit of the headlamp relay. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 13	-
11	Replace the headlamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Did you complete the replacement?	Go to Step 13	-
12	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 13	-
13	<ol style="list-style-type: none"> 1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as 		

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specified in the supporting text.

Does the DTC reset?

Go to **Step 2**

System OK

DTC B2582 OR B2583

Circuit Description

When the body control module (BCM) receives a ground signal from the multifunction high beam or flash to pass (FTP) switch commanding to illuminate the high beam headlamps, the BCM will energize the high beam relay by grounding the high beam relay control circuit.

DTC Descriptors

This diagnostic procedure supports the following DTCs:

- DTC B2582 Headlamp High Beam Control Circuit Low
- DTC B2583 Headlamp High Beam Control Circuit High

Conditions for Running the DTC

The battery voltage must be between 9-16 volts.

Conditions for Setting the DTC

- When the BCM receives a high beam headlamp OFF command and the high beam headlamp relay control circuit is shorted to ground
- When the BCM receives a high beam headlamp ON command and the high beam headlamp relay control circuit is shorted to voltage or open

Action Taken When the DTC Sets

The high beam headlamps will not operate or will remain always ON.

Conditions for Clearing the MIL/DTC

- This DTC will clear on current status after the condition for setting the fault is corrected.
- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- History and current DTCs can be cleared using a scan tool.

Test Description

The numbers below refer to the step numbers on the diagnostic table.

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2: Listen for an audible click when the high beam relay operates. Command both the ON and OFF states. Repeat the commands as necessary.

3: This step tests for voltage at the coil side of the high beam relay.

4: This step verifies that the BCM is providing ground to the high beam relay.

5: This step tests if ground is constantly being applied to the high beam relay.

6: This step tests if there is opposing voltage present or an open high beam relay control circuit.

12: After replacement of the BCM, you must calibrate the new module for proper operation.

DTC B2582 or B2583

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, command the high beam relay ON and OFF. Does the high beam relay turn ON and OFF with each command?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	1. Turn OFF the ignition. 2. Disconnect the high beam relay. 3. Turn ON the ignition, with the engine OFF. 4. Probe the battery positive voltage circuit of the high beam relay with a test lamp that is connected to a good ground.		

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	Does the test lamp illuminate?	Go to Step 4	Go to Step 10
4	<p>1. Connect a test lamp between the control circuit of the high beam relay and the battery positive voltage circuit of the high beam relay.</p> <p>2. With a scan tool, command the high beam relay ON and OFF.</p> <p>Does the test lamp turn ON and OFF with each command?</p>	Go to Step 8	Go to Step 5
5	Does the test lamp remain illuminated with each command?	Go to Step 7	Go to Step 6
6	<p>Test the control circuit of the high beam relay for a short to voltage or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 13	Go to Step 9
7	<p>Test the control circuit of the high beam relay for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 13	Go to Step 9
8	<p>Inspect for poor connections at the high beam relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 13	Go to Step 11
9	<p>Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 13	Go to Step 12
10	<p>Repair the battery positive voltage circuit of the high beam relay. Refer to <u>Wiring Repairs</u> .</p> <p>Did you complete the repair?</p>	Go to Step 13	-
11	<p>Replace the high beam relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> .</p>		

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	Did you complete the replacement?	Go to Step 13	-
12	Replace the BCM. Refer to Control Module References for replacement, setup and programming.		
	Did you complete the replacement?	Go to Step 13	-
13	<ol style="list-style-type: none">1. Use the scan tool in order to clear the DTCs.2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text.		
	Does the DTC reset?	Go to Step 2	System OK

DTC B2585

Circuit Description

When the body control module (BCM) receives a ground signal from the headlamp switch commanding to illuminate the park lamps, the BCM will energize the park lamp relay by grounding the park lamp relay control circuit.

DTC Descriptor

This diagnostic procedure supports the following DTC:

DTC B2585 Park Lamp Control Circuit

Conditions for Running the DTC

The battery voltage must be between 9-16 volts.

Conditions for Setting the DTC

- When the BCM receives a park lamp OFF command and the park lamp relay control circuit is shorted to ground
- When the BCM receives a park lamp ON command and the park lamp relay control circuit is shorted to voltage or open

Action Taken When the DTC Sets

The park lamps will not operate or will remain always ON.

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Conditions for Clearing the MIL/DTC

- This DTC will clear on current status after the condition for setting the fault is corrected.
- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- History and current DTCs can be cleared using a scan tool.

Test Description

The numbers below refer to the step numbers on the diagnostic table.

2: Listen for an audible click when the park lamp relay operates. Command both the ON and OFF states. Repeat the commands as necessary.

3: This step tests for voltage at the coil side of the park lamp relay.

4: This step verifies that the BCM is providing ground to the park lamp relay.

5: This step tests if ground is constantly being applied to the park lamp relay.

6: This step tests if there is opposing voltage present or an open park lamp relay control circuit.

12: After replacement of the BCM, you must calibrate the new module for proper operation.

DTC B2585

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, command the park lamp relay ON and OFF. Does the park lamp relay turn ON and OFF with each command?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3

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3	<ol style="list-style-type: none"> 1. Turn OFF the ignition. 2. Disconnect the park lamp relay. 3. Turn ON the ignition, with the engine OFF. 4. Probe the battery positive voltage circuit of the park lamp relay with a test lamp that is connected to a good ground. 		
	Does the test lamp illuminate?	Go to Step 4	Go to Step 10
4	<ol style="list-style-type: none"> 1. Connect a test lamp between the control circuit of the park lamp relay and the battery positive voltage circuit of the park lamp relay. 2. With a scan tool, command the park lamp relay ON and OFF. 		
	Does the test lamp turn ON and OFF with each command?	Go to Step 8	Go to Step 5
5	Does the test lamp remain illuminated with each command?	Go to Step 7	Go to Step 6
6	<p>Test the control circuit of the park lamp relay for a short to voltage or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 13	Go to Step 9
7	<p>Test the control circuit of the park lamp relay for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 13	Go to Step 9
8	<p>Inspect for poor connections at the park lamp relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 13	Go to Step 11
9	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u>		

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	and Wiring Repairs . Did you find and correct the condition?	Go to Step 13	Go to Step 12
10	Repair the battery positive voltage circuit of the park lamp relay. Refer to Wiring Repairs . Did you complete the repair?	Go to Step 13	-
11	Replace the park lamp relay. Refer to Relay Replacement (Attached to Wire Harness) or Relay Replacement (Within an Electrical Center) . Did you complete the replacement?	Go to Step 13	-
12	Replace the BCM. Refer to Control Module References for replacement, setup and programming. Did you complete the replacement?	Go to Step 13	-
13	<ol style="list-style-type: none"> 1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text. Does the DTC reset?	Go to Step 2	System OK

DTC B2602 OR B2603

Diagnostic Instructions

- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

DTC Descriptors

DTC B2602

Daytime Running Lamp Control Circuit Low or Open

DTC B2603

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Daytime Running Lamp Control Circuit High

Diagnostic Fault Information

DTC B2602 or B2603

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
DRL Control Circuit	B2602	B2602	B2603	-

Circuit/System Description

The daytime running lights (DRL) relay is controlled by the body control module (BCM). Battery positive voltage is applied to the relay coil at all times. The BCM grounds the DRL relay control circuit in order to turn ON the DRL relay illuminating the low beam headlamps at a reduced intensity.

Conditions for Running the DTC

- The ignition switch is in the RUN position.
- The headlamp switch is in the AUTO position.
- The park brake is not applied.
- The gear selector is not in the PARK position.

Conditions for Setting the DTC

One of the following conditions must occur:

- The DRL relay control circuit is open, shorted to ground or shorted to voltage.
- The DRL relay coil is open.
- The battery positive voltage to the DRL relay is open.

Action Taken When the DTC Sets

- The BCM stores DTC B2602 or B2603 in memory.
- The BCM disables the DRL relay control as long as the fault is present.
- The BCM disables the DRL relay control until the next key cycle after the fault is corrected.

Conditions for Clearing the DTC

- A current DTC B2602 or B2603 clears when the BCM no longer detects an open, short to ground or short to battery positive voltage in the control circuit on the DRL relay.

- 100 consecutive ignition cycles have been recorded without the DTC being detected.
- Using a scan tool can clear the DTC.

Diagnostic Aids

- The park brake must not be set and the transmission must be in gear for the DRL to operate properly.
- An open, short to ground or a short to voltage in the following location may cause a malfunction to occur:
 - The control circuit of the DRL relay coil
 - The DRL relay
 - The BCM

Reference Information

Schematic Reference

Headlights/Daytime Running Lights (DRL) Schematics

Connector End View Reference

Lighting Systems Connector End Views

Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

Scan Tool Reference

- Scan Tool Data Definitions
- Scan Tool Data List
- Scan Tool Output Controls

Circuit/System Verification

Ignition ON, carefully supply sufficient light to the ambient light sensor to activate DRL mode. The BCM Output Data List should indicate that the DRL Status is On. The low beam headlamps should illuminate at a reduced intensity.

Circuit/System Testing

1. Ignition OFF, disconnect the DRL relay.
2. Ignition ON, verify that a test lamp illuminates between the relay coil voltage supply circuit and ground.
 - If the test lamp does not illuminate, repair the voltage supply circuit for a short to ground or an open/high resistance. If the voltage supply circuit fuse is open, test the relay switch control circuit for a short to ground. If the circuit tests normal, test or replace the DRL relay.
3. Disconnect the harness connector at the BCM.
4. Test for infinite resistance between the DRL relay control circuit and ground
 - If less than infinite, test the DRL relay control circuit for a short to ground.
5. Connect the harness connector at the BCM.
6. Connect a test lamp between the relay coil control circuit and the relay coil voltage supply circuit.
7. Cycle the key OFF and then ON. Perform the Circuit/System Verification. The test lamp should turn ON.
 - If the test lamp remains OFF all the time, test for a short to voltage or an open/high resistance on the relay coil control circuit. If the circuit tests normal, replace the BCM.
 - If the test lamp remains ON all the time, test for a short to ground on the relay coil control circuit. If the circuit tests normal, replace the BCM.
8. If all circuits test normal, test or replace the DRL relay.

Component Testing**Relay Test**

1. Ignition OFF, disconnect the DRL relay.
2. Test for 65 to 95 ohms of resistance between terminals 85 and 86.
 - If the resistance is not within the specified range, replace the relay.
3. Test for infinite resistance between the following terminals:
 - 30 and 86
 - 30 and 87
 - 30 and 85
 - 85 and 87
 - If less than infinite resistance, replace the relay.

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4. Test for less than 2 ohms of resistance between terminals 30 and 87A.
 - If greater than 2 ohms, replace the relay.
5. Install a 10-amp fused jumper wire between relay terminal 85 and 12 volts. Install a jumper wire between relay terminal 86 and ground. Measure for less than 2 ohms of resistance between terminals 30 and 87.
 - If greater than 2 ohms, replace the relay.

Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

- **Relay Replacement (Attached to Wire Harness)** or **Relay Replacement (Within an Electrical Center)**
- **Control Module References** for BCM replacement, setup and programming

DTC B2622 OR B2623

Circuit Description

The body control module (BCM) receives a variable voltage signal from the instrument panel (I/P) dimmer switch requesting to illuminate the I/P controls illumination lamps to a desired intensity. When this occurs, the BCM directly sends a variable voltage based on the I/P dimmer switch position through the I/P lamps supply voltage circuit to the I/P controls illumination lamps.

DTC Descriptors

This diagnostic procedure supports the following DTCs:

- DTC B2622 Dimming Display Pulse Width Modulation (PWM) Input Circuit Low
- DTC B2623 Dimming Display Pulse Width Modulation (PWM) Input Circuit High

Conditions for Running the DTC

The battery voltage must be between 9-16 volts.

Conditions for Setting the DTC

- When the BCM receives an I/P controls illumination lamp request signal and the I/P lamps supply voltage circuit is shorted to ground
- When the BCM is not receiving an I/P controls illumination lamp request signal and the I/P

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lamps supply voltage circuit is shorted to voltage

Action Taken When the DTC Sets

The I/P controls illumination lamps will not operate or are always ON.

Conditions for Clearing the MIL/DTC

- This DTC will clear on current status after the condition for setting the fault is corrected.
- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- History and current DTCs can be cleared using a scan tool.

Diagnostic Aids

Perform a visual inspection for loose or poor connections at all related components. Refer to **Testing for Intermittent Conditions and Poor Connections** .

Test Description

The numbers below refer to the step numbers on the diagnostic table.

2: This step determines by process of elimination which, if any, dimmable component is causing the DTC to set.

3: This step determines if the problem exists in the wiring or the BCM.

5: After replacement of the BCM, you must calibrate the new module for proper operation.

DTC B2622 or B2623

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Dimming Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
	1. Clear the DTC B2622 or B2623 with the scan tool. 2. Turn the park lamps ON. 3. Adjust the instrument panel (I/P) dimmer switch to a mid-range		

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<p align="center">2</p>	<p>dimming position.</p> <p>4. Disconnect each dimmable component from the instrument panel lamps dimming control circuit, one at a time, while monitoring the scan tool current codes.</p> <p>Does either DTC not reset after a particular dimmable component was disconnected?</p>	<p align="center">Go to Step 4</p>	<p align="center">Go to Step 3</p>
<p align="center">3</p>	<p>Test for one of the following conditions. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <ul style="list-style-type: none"> • A short to voltage or short to ground in the I/P lamps supply voltage circuit. • An open, high resistance or short to ground in the park lamp supply voltage circuit. <p>Did you find and correct the condition?</p>	<p align="center">Go to Step 6</p>	<p align="center">Go to Step 5</p>
<p align="center">4</p>	<p>Replace the dimmable component associated with when the code did not reset. Refer to the proper replacement procedure for that particular component. Did you complete the repair?</p>	<p align="center">Go to Step 6</p>	<p align="center">-</p>
<p align="center">5</p>	<p>Replace the body control module (BCM). Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?</p>	<p align="center">Go to Step 6</p>	<p align="center">-</p>
<p align="center">6</p>	<p>1. Use the scan tool in order to clear the DTCs.</p> <p>2. Operate the vehicle within the Conditions for Running the DTC as</p>		

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specified in the supporting text.

Does the DTC reset?

Go to **Step 2**

System OK

DTC B2624

Circuit Description

The body control module (BCM) directly sends a reference voltage to the instrument panel (I/P) dimmer switch which is then reduced based on the I/P dimmer switch position and monitored as a signal to the BCM. The BCM uses this signal to directly control the desired level of I/P illumination lamp intensity.

DTC Descriptor

This diagnostic procedure supports the following DTC:

DTC 2624 Dimming Display Pulse Width Modulation (PWM) Input Circuit Open

Conditions for Running the DTC

The battery voltage must be between 9-16 volts.

Conditions for Setting the DTC

When the BCM monitors a signal voltage equal to or greater than 4.86 volts for more than one second

Action Taken When the DTC Sets

The I/P illumination lamp dimming will not operate.

Conditions for Clearing the MIL/DTC

- This DTC will clear on current status after the condition for setting the fault is corrected.
- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- History and current DTCs can be cleared using a scan tool.

Test Description

The numbers below refer to the step numbers on the diagnostic table.

3: This step tests for the proper operation of the circuit in the low voltage range.

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4: This step tests for the proper operation of the circuit in the high voltage range. If the fuse in the jumper opens when you perform this test, the signal circuit is shorted to voltage.

5: This step tests for a short to voltage in the signal circuit.

6: This step tests for a high resistance or an open in the low reference circuit.

DTC B2624

Step	Action	Value(s)	Yes	No
Schematic Reference: <u>Interior Lights Dimming Schematics</u>				
Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>				
1	Did you perform the Diagnostic System Check - Vehicle?	-	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	<ol style="list-style-type: none"> 1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With the scan tool, observe the Dimming Potentiometer input data parameter in the body control module (BCM) Data List. <p>Does the scan tool indicate that the Dimming Potentiometer input data parameter is within the specified range?</p>	0.6-4.5 V	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	<ol style="list-style-type: none"> 1. Turn OFF the ignition. 2. Disconnect the headlamp and panel dimmer switch. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool, observe the Dimming Potentiometer input data 	4.5 V		

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	parameter. Does the scan tool indicate that the Dimming Input data parameter is greater than the specified value?			
			Go to Step 10	Go to Step 4
4	<ol style="list-style-type: none"> 1. Turn OFF the ignition. 2. Connect a 3-amp fused jumper wire between the connector terminals of the low reference circuit and the signal circuit of the headlamp and panel dimmer switch. 3. Turn ON the ignition, with the engine OFF. 4. With a scan tool, observe the Dimming Potentiometer input data parameter. Does the scan tool indicate that the Dimming Potentiometer input data parameter is less than the specified value?	4.86 V		
			Go to Step 5	Go to Step 8
5	<ol style="list-style-type: none"> 1. Disconnect the fused jumper wire. 2. Measure the voltage between the connector terminals of the low reference circuit and the signal circuit of the headlamp and panel dimmer switch. Does the voltage measure less than the specified value?	5.15 V		
			Go to Step 6	Go to Step 7
	<ol style="list-style-type: none"> 1. Turn OFF the ignition. 			

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<p>6</p>	<p>2. Disconnect the negative battery cable. 3. Measure the resistance from the low reference circuit of the headlamp and panel dimmer switch connector and a good ground.</p> <p>Does the resistance measure less than the specified value?</p>	<p>5 ohms</p>	<p>Go to Step 12</p>	<p>Go to Step 11</p>
<p>7</p>	<p>Test the signal circuit of the headlamp and panel dimmer switch for a short to voltage. Refer to Circuit Testing and Wiring Repairs . Did you find and correct the condition?</p>	<p>-</p>	<p>Go to Step 16</p>	<p>Go to Step 13</p>
<p>8</p>	<p>Test the signal circuit of the headlamp and panel dimmer switch for an open or high resistance. Refer to Circuit Testing and Wiring Repairs . Did you find and correct the condition?</p>	<p>-</p>	<p>Go to Step 16</p>	<p>Go to Step 9</p>
<p>9</p>	<p>Test the low reference circuit of the headlamp and panel dimmer switch for an open or high resistance. Refer to Circuit Testing and Wiring Repairs . Did you find and correct the condition?</p>	<p>-</p>	<p>Go to Step 16</p>	<p>Go to Step 13</p>
<p>10</p>	<p>Test the signal circuit of the headlamp and panel dimmer switch for a short to voltage. Refer to Circuit Testing and Wiring Repairs . Did you find and correct the</p>	<p>-</p>		<p>Go to Step</p>

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	condition?		Go to Step 16	13
11	<p>1. Disconnect the body control module.</p> <p>2. Test the low reference circuit of the headlamp and panel dimmer switch for a high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	-	Go to Step 16	Go to Step 13
12	<p>Inspect for poor connections at the harness connector of the headlamp and panel dimmer switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	-	Go to Step 16	Go to Step 14
13	<p>Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	-	Go to Step 16	Go to Step 15
14	<p>Replace the headlamp and panel dimmer switch. Refer to <u>Headlamp Switch Replacement</u>.</p> <p>Did you complete the replacement?</p>	-	Go to Step 16	-
15	<p>Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming.</p> <p>Did you complete the replacement?</p>	-	Go to Step 16	-

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16	<ol style="list-style-type: none">1. Use the scan tool in order to clear the DTCs.2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text.	-		
	Does the DTC reset?		Go to Step 2	System OK

DTC B2647 OR B2648

Circuit Description

The body control module (BCM) monitors the ambient light sensor signal circuit in order to determine if the daytime running lights (DRL) or the auto headlights (ALC) should be turned ON in the AUTO mode. When the BCM senses the ambient light sensor signal voltage is between 1.75-4.9 volts, either the DRL will be commanded ON or the ALC will be commanded ON depending upon the amount of light received by the sensor.

DTC Descriptors

This diagnostic procedure supports the following DTC:

- DTC B2647 Ambient Light Sensor Circuit Low
- DTC B2648 Ambient Light Sensor Circuit High

Conditions for Running the DTC

The system voltage must be between 9-16 volts.

Conditions for Setting the DTC

- When the ambient light sensor signal voltage is less than 1.75 volts
- When the ambient light sensor signal voltage is more than 4.9 volts

Action Taken When the DTC Sets

The ALC will remain always ON or always OFF in any ambient light state.

Conditions for Clearing the MIL/DTC

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- This DTC will clear immediately after the condition for setting the fault is corrected.
- A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- Use a scan tool in order to clear history and current DTCs.

Test Description

The numbers below refer to the step numbers on the diagnostic table.

2: This step verifies that the value displayed is within the specified range.

3: This step tests for the proper operation of the circuit in the high voltage range.

4: This step tests for the proper operation of the circuit in the low voltage range. If the fuse in the jumper opens when you perform this test, the signal circuit is shorted to voltage.

DTC B2647 or B2648

Step	Action	Value(s)	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>				
1	Did you perform the Diagnostic System Check - Vehicle?	-	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, observe the ambient light sensor parameter in the body control module (BCM) data list. Does the scan tool indicate that the ambient light sensor parameter is within the specified range?	1.75-4.9 V	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
	1. Turn OFF the ignition.			

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<p>3</p>	<p>2. Disconnect the ambient light sensor.</p> <p>3. Turn ON the ignition, with the engine OFF.</p> <p>4. With a scan tool, observe the ambient light sensor parameter.</p> <p>Does the scan tool indicate that the ambient light sensor parameter is greater than the specified value?</p>	<p>4.9 V</p>	<p>Go to Step 4</p>	<p>Go to Step 5</p>
<p>4</p>	<p>1. Turn OFF the ignition.</p> <p>2. Connect a 3-amp fused jumper wire between the ambient light sensor low reference circuit and the ambient light sensor signal circuit at the ambient light sensor harness connector.</p> <p>3. Turn ON the ignition, with the engine OFF.</p> <p>4. With a scan tool, observe the ambient light sensor parameter.</p> <p>Does the scan tool indicate that the ambient light sensor parameter is less than the specified value?</p>	<p>1.75 V</p>	<p>Go to Step 6</p>	<p>Go to Step 7</p>
<p>5</p>	<p>Test the ambient light sensor signal circuit for a short to ground. Refer to Circuit Testing and Wiring Repairs .</p> <p>Did you find and correct the condition?</p>	<p>-</p>	<p>Go to Step 13</p>	<p>Go to Step 10</p>
	<p>Test the ambient light sensor low reference circuit for a short</p>			

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6	<p>to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?</p>	-	Go to Step 13	Go to Step 9
7	<p>Test the ambient light sensor signal circuit for a short to voltage, a high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?</p>	-	Go to Step 13	Go to Step 8
8	<p>Test the ambient light sensor low reference circuit for a short to voltage, a high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?</p>	-	Go to Step 13	Go to Step 10
9	<p>Inspect for poor connections at the harness connector of the ambient light sensor. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> . Did you find and correct the condition?</p>	-	Go to Step 13	Go to Step 11
10	<p>Inspect for poor connections at the harness connector of the BCM. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> . Did you find and correct the condition?</p>	-	Go to Step 13	Go to Step 12
11	<p>Replace the ambient light sensor. Refer to <u>Ambient Light Sensor Replacement</u>. Did you complete the</p>	-		

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	replacement?		Go to Step 13	-
12	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	-	Go to Step 13	-
13	1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text. Does the DTC reset?	-	Go to Step 2	System OK

SYMPTOMS - LIGHTING SYSTEMS

IMPORTANT: The following steps must be completed before using the symptom tables.

1. Perform the **Diagnostic System Check - Vehicle** before using the Symptom Tables in order to verify that all of the following are true:
 - There are no DTCs set.
 - The control modules can communicate via the serial data link.
2. Review the system operation and circuit descriptions that apply to the customer complaint in order to familiarize yourself with the system functions. Refer to the following list:
 - **Exterior Lighting Systems Description and Operation**
 - **Interior Lighting Systems Description and Operation**

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the lighting system. Refer to **Checking Aftermarket Accessories** .
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.

Intermittent

Faulty electrical connections or wiring may be the cause of intermittent conditions. Refer to **Testing for Intermittent Conditions and Poor Connections** .

Symptom List

Refer to a symptom diagnostic procedure from the following list in order to diagnose the symptom:

- **Backup Lamps Always On**
- **Backup Lamps Inoperative**
- **Clearance Lamps Inoperative**
- **Courtesy Lamps Always On**
- **Courtesy Lamps Inoperative**
- **Daytime Running Lamps (DRL) Always On**
- **Daytime Running Lamps (DRL) Inoperative**
- **Daytime Running Lamps (DRL) On with Park Brake Applied**
- **Fog Lamp Indicator Inoperative**
- **Fog Lamps Always On**
- **Fog Lamps Inoperative**
- **Rear Fog Lamps Always On**
- **Rear Fog Lamps Inoperative**
- **Hazard Lamps Always On**
- **Hazard Lamps Inoperative**
- **Headlamp Low or High Beams Always On**
- **Headlamps Inoperative - High Beams**
- **Headlamps Inoperative - Low Beams**
- **Low and High Beams Headlamps Inoperative**
- **Headlamps Flash to Pass Inoperative**
- **Headlight Leveling Inoperative**
- **High Beam Indicator Always On**
- **High Beam Indicator Inoperative**
- **Interior Backlighting Does Not Dim**
- **Interior Backlighting Inoperative**
- **License Lamps Inoperative**

- **Off-Road Lamps Always On**
- **Off-Road Lamps Inoperative**
- **Marker Lamps Inoperative**
- **Park Lamps Inoperative**
- **Park, License and Tail Lamps Always On**
- **Park, License and Tail Lamps Inoperative**
- **Position Lamps Malfunction**
- **Stop Lamps Always On**
- **Stop Lamps Inoperative**
- **Tail Lamps Inoperative**
- **Turn Signal Lamps and/or Indicators Always On or Flashing**
- **Turn Signal Lamps and/or Indicators Inoperative**
- **Vanity Mirror Lamp(s) Inoperative**

BACKUP LAMPS ALWAYS ON

Backup Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u>, <u>Automatic Transmission Related Connector End Views</u> or <u>Manual Transmission Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	1. Block the rear wheels. 2. Turn ON the ignition, with the engine OFF. 3. Place the gear selector in PARK or the shifter in Neutral. Do the backup lamps illuminate?	Go to Step 3	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>
	Disconnect the park/neutral position (PNP) switch, if equipped with a automatic		

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3	transmission or the backup lamp switch, if equipped with a manual transmission. Do the backup lamps remain illuminated?	Go to Step 4	Go to Step 5
4	Repair the short to battery positive voltage in the backup lamps supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 6	-
5	Adjust or replace the PNP switch or backup lamp switch. Refer to <u>Park/Neutral Backup Switch Adjustment</u> and <u>Park/Neutral Backup Switch Replacement</u> or <u>Backup Lamp Switch Replacement</u> . Did you complete the repair?	Go to Step 6	-
6	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

BACKUP LAMPS INOPERATIVE

Backup Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u>, <u>Automatic Transmission Related Connector End Views</u> or <u>Manual Transmission Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	1. Turn ON the ignition, with the engine OFF. 2. Block the rear wheels. 3. Place the gear selector or shifter in the REVERSE position. Do both backup lamps illuminate?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3

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3	Is only one lamp inoperative?	Go to Step 4	Go to Step 5
4	Connect a test lamp between the backup lamp supply voltage circuit and the ground circuit of the socket. Does the test lamp illuminate?	Go to Step 9	Go to Step 8
5	<ol style="list-style-type: none"> 1. Turn OFF the ignition. 2. Connect a 15-amp fused jumper wire at the connector between the ignition positive voltage circuit and the backup lamp supply voltage circuit of the park/neutral position (PNP) switch, if equipped with an automatic transmission or the backup lamp switch, if equipped with a manual transmission. 3. Turn ON the ignition, with the engine OFF. Do the backup lamps illuminate?	Go to Step 6	Go to Step 7
6	Inspect for poor connections at the harness connector of the PNP switch or backup lamp switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> . Did you find and correct the condition?	Go to Step 11	Go to Step 10
7	Repair one of the following conditions. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . <ul style="list-style-type: none"> • The open, high resistance or short to ground in the ignition positive voltage circuit or the backup lamps supply voltage circuit • The open or high resistance in the ground circuit Did you complete the repair?	Go to Step 11	-

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8	Repair the open or high resistance in the backup lamp supply voltage circuit or the ground circuit. Did you complete the repair?	Go to Step 11	-
9	Replace the inoperative bulb. Refer to <u>Backup Lamp Bulb Replacement</u> . Did you complete the replacement?	Go to Step 11	-
10	Adjust or replace the PNP switch if equipped with an automatic transmission or the backup lamp switch if equipped with a manual transmission. Refer to <u>Park/Neutral Backup Switch Adjustment</u> and <u>Park/Neutral Backup Switch Replacement</u> or <u>Backup Lamp Switch Replacement</u> . Did you complete the replacement?	Go to Step 11	-
11	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

CLEARANCE LAMPS INOPERATIVE

Clearance Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Turn ON the park lamps. Do the clearance lamps illuminate?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Are the park lamps illuminated?		Go to <u>Park, License and</u>

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		Go to Step 4	<u>Tail Lamps Inoperative</u>
4	Are all clearance lamps inoperative?	Go to Step 7	Go to Step 5
5	Test the clearance lamp supply voltage and ground circuit for an open or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 9	Go to Step 6
6	Inspect for poor connections at the harness connector of the clearance lamp. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 9	Go to Step 8
7	Repair the interior park lamps supply voltage circuit of the clearance lamps for the following: <ul style="list-style-type: none"> • An open • A high resistance • A short to ground Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 9	-
8	Replace the affected clearance/identification lamp. Refer to <u>Roof Clearance Lamp Bulb Replacement</u> or <u>Roof Identification Lamp Bulb Replacement</u> . Did you complete the replacement?	Go to Step 9	-
9	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

COURTESY LAMPS ALWAYS ON

Courtesy Lamps Always On

Step	Action	Yes	No
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**Schematic Reference: Interior Lights Schematics
Connector End View Reference: Lighting Systems Connector End Views, Data Communication Connector End Views or Vehicle Access Connector End Views**

1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the courtesy/dome lamps are always on. Do the courtesy/dome lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Inspect for the following related body control module (BCM) module data parameters. Refer to <u>Scan Tool Data List</u> and <u>Scan Tool Data Definitions</u> for typical values and definitions: <ul style="list-style-type: none"> • The courtesy lamp switch • The dome lamp override switch • The driver door ajar switch • The passenger door ajar switch <p>Was a problem found?</p>	Go to Step 4	Go to Step 7
4	Disconnect and test the switch of the affected input circuit for proper continuity in the open and closed positions. Refer to <u>Circuit Testing</u> . Does the switch operate properly?	Go to Step 5	Go to Step 6
5	Test the signal and ground circuits of the affected input circuit for the following: <ul style="list-style-type: none"> • A short to ground • An open • A high resistance 		

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	Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 11	Go to Step 7
6	Inspect for poor connections at the harness connector of the affected switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 11	Go to Step 9
7	Test for a short to ground in any of the courtesy lamp low control circuits. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 11	Go to Step 8
8	Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 11	Go to Step 10
9	Replace the switch in the affected circuit. Refer to one of the following replacement procedures as applicable: <ul style="list-style-type: none"> • <u>Headlamp Switch Replacement</u> • <u>Front Side Door Lock Replacement</u> • <u>Rear Door Lock Replacement</u> • <u>Endgate Latch Replacement</u> Did you complete the replacement?	Go to Step 11	-
10	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 11	-
11	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

COURTESY LAMPS INOPERATIVE

Courtesy Lamps Inoperative

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Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views, Data Communication Connector End Views</u> or <u>Vehicle Access Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the courtesy lamps are inoperative. Do the courtesy lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Inspect for the following related body control module (BCM) module data parameters. Refer to <u>Scan Tool Data List</u> and <u>Scan Tool Data Definitions</u> for typical values and definitions: <ul style="list-style-type: none"> • The courtesy lamp switch • The dome lamp override switch • The driver door ajar switch • The passenger door ajar switch Was a problem found?	Go to Step 6	Go to Step 4
4	Connect a test lamp between the supply voltage and ground circuits of the inoperative lamp and activate the lamp. Does the test lamp illuminate?	Go to Step 11	Go to Step 5
5	Test the supply voltage and ground circuits of the inoperative lamp for an open or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 9
6	Disconnect and test the switch of the affected input circuit for proper continuity in the open and closed positions. Refer to		

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	<p><u>Circuit Testing</u> .</p> <p>Does the switch operate properly?</p>	Go to Step 7	Go to Step 8
7	<p>Test the signal and ground circuits of the affected input circuit for the following:</p> <ul style="list-style-type: none"> • A short to ground • An open • A high resistance <p>Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 13	Go to Step 9
8	<p>Inspect for poor connections at the harness connector of the affected switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 13	Go to Step 10
9	<p>Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 13	Go to Step 12
10	<p>Replace the switch in the affected circuit. Refer to one of the following replacement procedures as applicable:</p> <ul style="list-style-type: none"> • <u>Headlamp Switch Replacement</u> • <u>Front Side Door Lock Replacement</u> • <u>Rear Door Lock Replacement</u> • <u>Endgate Latch Replacement</u> <p>Did you complete the replacement?</p>	Go to Step 13	-
11	<p>Replace the inoperative bulb. Refer to the correct replacement procedure.</p> <p>Did you complete the repair?</p>	Go to Step 13	-
	<p>Replace the BCM. Refer to <u>Control Module References</u> for replacement,</p>		

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12	setup and programming. Did you complete the replacement?	Go to Step 13	-
13	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

DAYTIME RUNNING LAMPS (DRL) ALWAYS ON

Daytime Running Lamps (DRL) Always On

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	<ol style="list-style-type: none"> Carefully supply sufficient light to the ambient light sensor. Place the headlamps in the AUTO position. Does the system operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Remove the DRL fuse in the underhood fuse block. Do the DRL turn OFF?	Go to Step 4	Go to Step 7
4	<ol style="list-style-type: none"> Reinstall the DRL fuse. Use the scan tool to observe the DRL Status parameter while switching the headlamp switch back and forth several times between AUTO and HEAD. Does the DRL parameter change states as expected?	Go to Step 5	Go to Step 6
	Inspect for poor connections at the harness connector of the underhood fuse block. Refer to <u>Testing for Intermittent</u>		

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5	<u>Conditions and Poor Connections</u> and <u>Connector Repairs</u> . Did you find and correct the condition?	Go to Step 10	Go to Step 8
6	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> . Did you find and correct the condition?	Go to Step 10	Go to Step 9
7	Repair the DRL supply voltage circuit. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 10	-
8	Replace the DRL relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Did you complete the replacement?	Go to Step 10	-
9	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 10	-
10	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

DAYTIME RUNNING LAMPS (DRL) INOPERATIVE

Daytime Running Lamps (DRL) Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
	1. Carefully supply sufficient light to the ambient light sensor.		

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2	<p>2. Place the headlamps in the AUTO position.</p> <p>Do the low beam headlamp bulbs illuminate?</p>	<p>Go to <u>Testing for Intermittent Conditions and Poor Connections</u></p>	<p>Go to Step 3</p>
3	<p>With a scan tool, observe the DRL Status parameter in the body control module (BCM) data list.</p> <p>Does the scan tool display On?</p>	<p>Go to Step 4</p>	<p>Go to Step 7</p>
4	<p>Test the DRL supply voltage circuit for an open, high resistance or short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	<p>Go to Step 9</p>	<p>Go to Step 5</p>
5	<p>Inspect for poor connections at the harness connector of the underhood fuse block. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> .</p> <p>Did you find and correct the condition?</p>	<p>Go to Step 9</p>	<p>Go to Step 6</p>
6	<p>Replace the DRL relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> .</p> <p>Did you complete the repair?</p>	<p>Go to Step 9</p>	<p>-</p>
7	<p>Inspect for poor connections at the harness connector of the BCM. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> .</p> <p>Did you find and correct the condition?</p>	<p>Go to Step 9</p>	<p>Go to Step 8</p>
8	<p>Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming.</p> <p>Did you complete the replacement?</p>	<p>Go to Step 9</p>	<p>-</p>
9	<p>Operate the system in order to verify the repair.</p> <p>Did you correct the condition?</p>	<p>System OK</p>	<p>Go to Step 3</p>

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DAYTIME RUNNING LAMPS (DRL) ON WITH PARK BRAKE APPLIED

Daytime Running Lamps (DRL) On with Park Brake Applied

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views, Data Communication Connector End Views</u> or <u>Hydraulic Brake Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the daytime running lamps (DRL) headlamps are ON with the parking brake applied. Do the DRL headlamps operate normally with the parking brake applied?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	<ol style="list-style-type: none"> 1. Set the park brake. 2. Turn ON the ignition, with the engine OFF. 3. With the scan tool, read the park brake switch status. Does the scan tool display Applied?	Go to Step 6	Go to Step 4
4	<ol style="list-style-type: none"> 1. Disconnect the park brake switch. 2. Connect a fused jumper wire between the park brake switch signal circuit and the ground circuit. 3. With the scan tool, read the park brake switch status. Does the scan tool display Applied?	Go to Step 7	Go to Step 5
5	Test for an open or high resistance in the park brake switch signal circuit or ground circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 10	Go to Step 6
	Inspect for poor connections at the harness connector of the body control module		

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6	(BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 10	Go to Step 8
7	Inspect for poor connections at the harness connector of the park brake switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 10	Go to Step 9
8	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 10	-
9	Replace the park brake switch. Refer to <u>Parking Brake Indicator Switch Replacement (LHD)</u> or <u>Parking Brake Indicator Switch Replacement (RHD)</u> . Did you complete the replacement?	Go to Step 10	-
10	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

FOG LAMP INDICATOR INOPERATIVE

Fog Lamp Indicator Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the fog lamp indicator is inoperative. Does the fog lamp indicator operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Do the fog lamps operate normally?		Go to Symptoms -

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		Go to Step 4	<u>Lighting Systems</u>
4	Test the fog lamp indicator control circuit for a short to ground, open or high resistance. Refer to <u>Circuit Testing</u> or <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 6	Go to Step 5
5	Replace the headlamp and panel dimmer switch. Refer to <u>Headlamp Switch Replacement</u> . Did you complete the repair?	Go to Step 6	-
6	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

FOG LAMPS ALWAYS ON

Fog Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the front fog lamps are always ON. Do the front fog lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	With a scan tool, observe the Front Fog Lamp Switch data parameter in the body control module (BCM) data list. Does the scan tool display Inactive?	Go to Step 4	Go to Step 6
4	Remove the front fog lamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement</u>		

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	<u>(Within an Electrical Center)</u> . Did the front fog lamps turn OFF?	Go to Step 5	Go to Step 8
5	Test for a voltage signal at the fog lamp relay control circuit terminal for the front fog lamp relay in the underhood fuse block. Refer to <u>Electrical Center Identification Views</u> and <u>Circuit Testing</u> . Was a voltage signal present?	Go to Step 7	Go to Step 10
6	Test for a short to ground in the front fog lamp switch signal circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 12	Go to Step 11
7	Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 12	Go to Step 9
8	Repair the short to voltage in the front fog lamp supply voltage circuit. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 12	-
9	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 12	-
10	Replace the front fog lamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Did you complete the repair?	Go to Step 12	-
11	Replace the headlamp and panel dimmer switch. Refer to <u>Headlamp Switch Replacement</u> . Did you complete the repair?	Go to Step 12	-
12	1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair.		

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Did you correct the condition?	System OK	Go to Step 3
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FOG LAMPS INOPERATIVE

Fog Lamps Inoperative

Step	Action	Yes	No
<p>Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u></p>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the front fog lamps are inoperative. Do the front fog lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Is only one front fog lamp inoperative?	Go to Step 4	Go to Step 5
4	<p>1. Inspect the inoperative bulb and socket for an open filament or poor terminal contact and replace as necessary. Refer to <u>Front Fog Lamp Bulb Replacement</u>.</p> <p>2. If a condition is not found, locate and repair the open or high resistance in the front fog lamp supply voltage circuit or ground circuit to the inoperative lamp. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you complete the repair?</p>	Go to Step 16	-
5	With the engine OFF, turn the key to RUN and the headlamp switch to PARK. Do the park lamps illuminate?	Go to Step 6	Go to <u>Symptoms - Lighting Systems</u>
6	Inspect the FOG LP fuse. Is the fuse open?	Go to Step 7	Go to Step 8

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7	<p>Test for a short to ground in the front fog lamp supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct a condition?</p>	Go to Step 16	Go to Step 14
8	<ol style="list-style-type: none"> 1. Place the front fog lamp switch in the ON position. 2. Remove the front fog lamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . 3. Test for a voltage signal at the fog lamp relay control circuit terminal for the front fog lamp relay in the underhood fuse block. Refer to <u>Electrical Center Identification Views</u> and <u>Circuit Testing</u> . <p>Was a voltage signal present?</p>	Go to Step 11	Go to Step 9
9	<p>Test the front fog lamp switch signal and ground circuits for an open, high resistance or short to voltage. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct a condition?</p>	Go to Step 16	Go to Step 10
10	<ol style="list-style-type: none"> 1. Remove the fog lamp switch. Refer to <u>Headlamp Switch Replacement</u>. 2. Place a fused jumper between the fog lamp switch signal and ground connector terminals. 3. Test for a voltage signal at the fog lamp relay control circuit terminal for the front fog lamp relay in the underhood fuse block. Refer to <u>Electrical Center Identification Views</u> and <u>Circuit Testing</u> . <p>Was a voltage signal present?</p>	Go to Step 15	Go to Step 12
	<p>Test for an open or high resistance in the</p>		

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11	front fog lamp supply voltage circuit and fog lamp ground circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 16	Go to Step 14
12	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 16	Go to Step 13
13	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 16	-
14	Replace the front fog lamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Did you complete the repair?	Go to Step 16	-
15	Replace the headlamp and panel dimmer switch. Refer to <u>Headlamp Switch Replacement</u> . Did you complete the repair?	Go to Step 16	-
16	1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

REAR FOG LAMPS ALWAYS ON

Rear Fog Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?		Go to Diagnostic

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			<u>System Check - Vehicle</u>
2	Verify that the rear fog lamps are always on. Do the rear fog lamps operate normally?	Go to Step 2 Go to Testing for Intermittent Conditions and Poor Connections	Go to Step 3
3	Use the scan tool to monitor the rear fog lamp switch input with the switch in the OFF position. Does the scan tool indicate that the switch is ON?	Go to Step 4	Go to Step 5
4	Test for a short to ground in the rear fog lamp switch signal circuit. Did you find and correct the condition?	Go to Step 12	Go to Step 10
5	Remove the rear fog lamp relay. Does the rear fog lamp turn OFF?	Go to Step 6	Go to Step 8
6	1. Ensure that the rear fog lamp switch is in the OFF position. 2. Test for a ground signal at the rear fog lamp relay control circuit terminal in the underhood fuse block. Refer to Circuit Testing . Was a ground signal found?	Go to Step 7	Go to Step 11
7	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to Circuit Testing and Wiring Repairs . Did you find and correct the condition?	Go to Step 12	Go to Step 9
8	Repair the short to voltage in the rear fog lamp supply voltage circuit. Refer to Wiring Repairs . Did you complete the repair?	Go to Step 12	-
9	Replace the BCM. Refer to Control Module References for replacement, setup and programming. Did you complete the replacement?	Go to Step 12	-

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10	Replace the rear fog lamp switch. Refer to <u>Headlamp Switch Replacement</u> . Did you complete the repair?	Go to Step 12	-
11	Replace the rear fog lamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Did you complete the repair?	Go to Step 12	-
12	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

REAR FOG LAMPS INOPERATIVE

Rear Fog Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Fog Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the rear fog lamps are inoperative. Do the rear fog lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Test the inoperative bulb for an open or poor terminal contact and replace as necessary. Refer to <u>Circuit Testing</u> or <u>Tail Lamp Bulb Replacement</u> . Did you find and correct a condition?	Go to Step 15	Go to Step 4
4	With the engine Off, turn the key to RUN and the headlamp switch to AUTO. Do the park lamps illuminate?	Go to Step 5	Go to <u>Symptoms - Lighting Systems</u>
5	Inspect the RR FOG fuse.		

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	Is the fuse open?	Go to Step 6	Go to Step 7
6	Test for a short to ground in the rear fog lamp supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 15	Go to Step 13
7	<ol style="list-style-type: none"> 1. Place the rear fog lamp switch in the ON position. 2. Remove the rear fog lamp relay. 3. Test for a ground signal at the rear fog lamp relay control circuit terminal in the underhood fuse block. Refer to <u>Circuit Testing</u> . 		
	Was a ground signal present?	Go to Step 10	Go to Step 8
8	Test the rear fog lamp switch signal and ground circuits for an open or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 15	Go to Step 9
9	<ol style="list-style-type: none"> 1. Remove the fog lamp switch. 2. Place a fused jumper between the fog lamp switch signal and ground connector terminals. 3. Test for a ground signal at the rear fog lamp relay control circuit terminal in the body relay block. Refer to <u>Circuit Testing</u> . 		
	Was a ground signal present?	Go to Step 14	Go to Step 11
10	Test for an open or high resistance in the rear fog lamp supply voltage circuit and the ground circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 15	Go to Step 13
11	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and		

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	Wiring Repairs . Did you find and correct the condition?	Go to Step 15	Go to Step 12
12	Replace the BCM. Refer to Control Module References for replacement, setup and programming. Did you complete the replacement?	Go to Step 15	-
13	Replace the rear fog lamp relay. Refer to Relay Replacement (Attached to Wire Harness) or Relay Replacement (Within an Electrical Center) . Did you complete the repair?	Go to Step 15	-
14	Replace the rear fog lamp switch. Refer to Headlamp Switch Replacement. Did you complete the repair?	Go to Step 15	-
15	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HAZARD LAMPS ALWAYS ON

Hazard Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to Diagnostic System Check - Vehicle
2	Verify that the hazard lamps are always ON. Do the hazard lamps operate normally?	Go to Testing for Intermittent Conditions and Poor Connections	Go to Step 3
3	1. Ensure that the hazard lamp switch is in the OFF position. 2. With a scan tool, observe the Hazard Lamp Switch data parameter in the body control module (BCM) data list.		

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	Does the scan tool display Active?	Go to Step 4	Go to Step 5
4	Test the hazard switch signal circuit for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 9	Go to Step 6
5	Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 9	Go to Step 7
6	Inspect for poor connections at the harness connector of the hazard switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 9	Go to Step 8
7	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the repair?	Go to Step 9	-
8	Replace the hazard switch. Refer to <u>Hazard Warning Switch Replacement</u> . Did you complete the repair?	Go to Step 9	-
9	1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HAZARD LAMPS INOPERATIVE

Hazard Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>

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2	<p>Verify that the hazard lamps are always ON. Do the hazard lamps operate normally?</p>	<p>Go to <u>Testing for Intermittent Conditions and Poor Connections</u></p>	Go to Step 3
3	<ol style="list-style-type: none"> 1. Ensure that the hazard lamp switch is in the ON position. 2. With a scan tool, observe the Hazard Lamp Switch data parameter in the body control module (BCM) data list. <p>Does the scan tool display Inactive?</p>	Go to Step 4	Go to Step 5
4	<p>Test the hazard switch signal circuit and ground circuit for an open or high resistance. Refer to <u>Circuit Testing and Wiring Repairs</u> . Did you find and correct a condition?</p>	Go to Step 9	Go to Step 6
5	<p>Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?</p>	Go to Step 9	Go to Step 7
6	<p>Inspect for poor connections at the harness connector of the hazard switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?</p>	Go to Step 9	Go to Step 8
7	<p>Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the repair?</p>	Go to Step 9	-
8	<p>Replace the hazard switch. Refer to <u>Hazard Warning Switch Replacement</u>. Did you complete the repair?</p>	Go to Step 9	-
9	<ol style="list-style-type: none"> 1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair. 		

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Did you correct the condition?	System OK	Go to Step 3
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HEADLAMP LOW OR HIGH BEAMS ALWAYS ON

Headlamp Low or High Beams Always On

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the low or high beam headlamps are always ON. Do the low and high beam headlamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Does the Wiper Activated Headlamp (WAH) function of the wiper system operate normally?	Go to Step 6	Go to Step 4
4	With the key in RUN and the wiper switch in the OFF position, use the scan tool to monitor the Front Wipers Active input parameter. Does the scan tool parameter display Inactive?	Go to Step 13	Go to Step 5
5	Test the windshield wiper switch signal 1 circuit for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 21	Go to Step 20
6	Can you illuminate both low and high beam headlamps at the same time when activating the headlamp dimmer switch?	Go to Step 15	Go to Step 7
	<ol style="list-style-type: none"> 1. Place the headlamp and panel dimmer switch in the OFF position. 2. Turn the ignition ON with the engine 		

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7	<p>OFF.</p> <p>3. With a scan tool, observe the Headlamp OFF Switch data parameter in the Body Control Module (BCM) data list.</p> <p>Does the scan tool display Active?</p>	Go to Step 10	Go to Step 8
8	<p>1. Disconnect the headlamp and panel dimmer switch. Refer to <u>Headlamp Switch Replacement</u>.</p> <p>2. Place a fused jumper between the headlamp switch headlamps OFF signal circuit and low reference circuit terminals.</p> <p>Does the scan tool display Active?</p>	Go to Step 14	Go to Step 9
9	<p>Test for an open or high resistance in one of the following headlamp and panel dimmer switch circuits. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <ul style="list-style-type: none"> • The headlamp switch headlamps OFF signal • The low reference circuit <p>Did you find and correct a condition?</p>	Go to Step 21	Go to Step 13
10	<p>Remove the headlamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> .</p> <p>Do the low or high beam headlamps remain always ON?</p>	Go to Step 16	Go to Step 11
11	<p>Test for a ground signal at the headlamp relay control circuit connector terminal. Refer to <u>Circuit Testing</u> and <u>Electrical Center Identification Views</u> .</p> <p>Is a ground control signal present?</p>	Go to Step 12	Go to Step 18

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12	<p>Test for a short to ground in the headlamp relay control circuit. Refer to <u>Circuit Testing</u> and <u>Electrical Center Identification Views</u> .</p> <p>Did you find and correct a condition?</p>	Go to Step 21	Go to Step 13
13	<p>Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 21	Go to Step 17
14	<p>Inspect for poor connections at the harness connector of the headlamp and panel dimmer switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 21	Go to Step 19
15	<p>Repair the short to ground in the right or left low or high beam headlamp ground circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you complete the repair?</p>	Go to Step 21	-
16	<p>Repair the short to voltage in the right or left low beam headlamp supply voltage circuit. Refer to <u>Wiring Repairs</u> .</p> <p>Did you complete the repair?</p>	Go to Step 21	-
17	<p>Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming.</p> <p>Did you complete the replacement?</p>	Go to Step 21	-
18	<p>Replace the headlamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> .</p> <p>Did you complete the repair?</p>	Go to Step 21	-
19	<p>Replace the headlamp and panel dimmer switch. Refer to <u>Headlamp Switch Replacement</u>.</p> <p>Did you complete the repair?</p>	Go to Step 21	-
20	<p>Replace the turn signal/multifunction switch. Refer to <u>Turn Signal</u></p>		-

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	<u>Multifunction Switch Replacement</u> Did you complete the repair?	Go to Step 21	
21	<ol style="list-style-type: none"> 1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair. 		
	Did you correct the condition?	System OK	Go to Step 3

HEADLAMPS INOPERATIVE - HIGH BEAMS

Headlamps Inoperative - High Beams

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the high beam headlamps are inoperative. Do the high beam headlamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Is only one high beam headlamp inoperative?	Go to Step 4	Go to Step 5
4	<ol style="list-style-type: none"> 1. Inspect the inoperative bulb for an open filament and connector for poor terminal contact and replace/repair as necessary. Refer to <u>Headlamp Bulb Replacement</u> or <u>Wiring Repairs</u> . 2. If the condition above does not exist, repair the open, high resistance or short to ground in the high beam headlamp supply voltage circuit or ground circuit to the inoperative lamp. Refer to <u>Circuit Testing</u> 		

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	and <u>Wiring Repairs</u> .		
	Did you complete the repair?	Go to Step 13	-
5	Test the headlamp dimmer switch high beam signal and ground circuits for an open or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 13	Go to Step 6
6	1. Place the headlamp switch in the ON position. 2. Connect a fused jumper from ground to the headlamp high beam dimmer switch signal terminal of the turn signal/multifunction switch connector. Do the high beam headlamps illuminate?	Go to Step 8	Go to Step 7
7	Connect a fused jumper from B+ voltage to the beam select relay control circuit terminal at the beam select relay in the underhood fuse block. Do the high beam headlamps illuminate?	Go to Step 9	Go to Step 11
8	Inspect for poor connections at the harness connector of the turn signal/multifunction switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 12
9	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 10
10	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 13	-
11	Replace the beam select relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within</u>		

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	an Electrical Center) . Did you complete the repair?	Go to Step 13	-
12	Replace the turn signal/multifunction switch. Refer to Turn Signal Multifunction Switch Replacement . Did you complete the repair?	Go to Step 13	-
13	1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HEADLAMPS INOPERATIVE - LOW BEAMS

Headlamps Inoperative - Low Beams

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views, Data Communication Connector End Views</u> or <u>Wiper/Washer Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to Diagnostic System Check - Vehicle
2	Verify that the low beam headlamps are inoperative. Do the low beam headlamps operate normally?	Go to Testing for Intermittent Conditions and Poor Connections	Go to Step 3
3	Is only one low beam headlamp inoperative?	Go to Step 4	Go to Step 5
	1. Inspect the inoperative bulb for an open filament and connector for poor terminal contact and replace/repair, as necessary. Refer to Headlamp Bulb Replacement or Wiring Repairs . 2. If the condition above does not exist,		

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4	<p>repair the open, high resistance or short to ground in the low beam headlamp supply voltage circuit or ground circuit to the inoperative lamp. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you complete the repair?</p>	Go to Step 18	-
5	<p>Does the wiper activated headlamp (WAH) function of the wiper system operate normally?</p>	Go to Step 8	Go to Step 6
6	<ol style="list-style-type: none"> 1. Block the wheels. 2. Place the ignition switch in the RUN position with the engine OFF. 3. Place the gearshift lever in DRIVE. 4. Place the wiper switch in the LO speed position. 5. Use the scan tool to monitor the Front Wipers Active input to the body control module (BCM). <p>Does the scan tool display Active after approximately 3 cycles of the wiper blades?</p>	Go to Step 13	Go to Step 7
7	<p>Test the windshield wiper switch signal 1 circuit for the following:</p> <ul style="list-style-type: none"> • An open • A high resistance • A short to voltage <p>Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct a condition?</p>	Go to Step 18	Go to Step 12
8	<p>Disconnect the turn signal/multifunction switch.</p> <p>Do the low beam headlamps illuminate?</p>	Go to Step 11	Go to Step 9

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9	<p>1. Remove the beam select relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> .</p> <p>2. Test for a voltage signal at the headlamp high beam relay control circuit terminal in the underhood fuse block. Refer to <u>Electrical Center Identification Views</u> and <u>Circuit Testing</u> .</p> <p>Was a voltage signal present?</p>	Go to Step 10	Go to Step 14
10	<p>Test for a short to voltage in the headlamp high beam relay control circuit. Refer to <u>Electrical Center Identification Views</u> and <u>Circuit Testing</u> .</p> <p>Did you find and correct a condition?</p>	Go to Step 18	Go to Step 13
11	<p>Test for a short to ground in the headlamp dimmer switch high beam signal circuit or flash to pass switch signal circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct a condition?</p>	Go to Step 18	Go to Step 12
12	<p>Inspect for poor connections at the harness connector of the turn signal/multifunction switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 18	Go to Step 15
13	<p>Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 18	Go to Step 16
14	<p>Inspect for poor connections at the harness connector of the underhood fuse block and beam select relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 18	Go to Step 17
	<p>Replace the turn signal/multifunction</p>		

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15	switch. Refer to <u>Turn Signal Multifunction Switch Replacement</u> . Did you complete the repair?	Go to Step 18	-
16	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 18	-
17	Replace the beam select relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Did you complete the repair?	Go to Step 18	-
18	1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

LOW AND HIGH BEAMS HEADLAMPS INOPERATIVE

Low and High Beams Headlamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Headlights/Daytime Running Lights (DRL) Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the low or high beam headlamps are inoperative. Do the low and high beam headlamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Does the wiper activated headlamp (WAH) function of the wiper system operate normally?	Go to Step 6	Go to Step 4

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4	<p>With the key in RUN and the wiper switch in the LO position, use the scan tool to monitor the Front Wipers Active input parameter.</p> <p>Does the scan tool parameter display Active?</p>	Go to Step 12	Go to Step 5
5	<p>Test the windshield wiper switch signal 1 circuit for an open or high resistance. Refer to Circuit Testing and Wiring Repairs .</p> <p>Did you find and correct the condition?</p>	Go to Step 20	Go to Step 19
6	<ol style="list-style-type: none"> 1. Place the headlamp and panel dimmer switch in the ON position. 2. Turn the ignition ON with the engine OFF. 3. With a scan tool, observe the Headlamp On Switch data parameter in the body control module (BCM) data list. <p>Does the scan tool display Active?</p>	Go to Step 9	Go to Step 7
7	<ol style="list-style-type: none"> 1. Disconnect the headlamp and panel dimmer switch. Refer to Headlamp Switch Replacement. 2. Place a fused jumper between the headlamp switch headlamps on signal circuit and low reference circuit terminals. <p>Does the scan tool display Active?</p>	Go to Step 13	Go to Step 8
8	<p>Test for one of the following conditions in the headlamp and panel dimmer switch circuits. Refer to Circuit Testing and Wiring Repairs .</p> <ul style="list-style-type: none"> • An open or high resistance in the headlamp switch headlamps on signal circuit or low reference circuit. • A short to ground in the headlamp 		

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	switch headlamps off signal circuit.		
	Did you find and correct a condition?	Go to Step 20	Go to Step 12
9	<p>1. Remove the headlamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> .</p> <p>2. Place a fused jumper between the battery positive voltage circuit and headlamp supply voltage circuit terminals to the headlamp relay in the underhood fuse block. Refer to <u>Electrical Center Identification Views</u> .</p> <p>Do the low or high beam headlamps illuminate?</p>	Go to Step 10	Go to Step 14
10	<p>Test for a ground signal at the headlamp relay control circuit connector terminal. Refer to <u>Circuit Testing</u> and <u>Electrical Center Identification Views</u> .</p> <p>Is a ground control signal present?</p>	Go to Step 16	Go to Step 11
11	<p>Test for an open or high resistance in the headlamp relay control circuit. Refer to <u>Circuit Testing</u> and <u>Electrical Center Identification Views</u> .</p> <p>Did you find and correct a condition?</p>	Go to Step 20	Go to Step 12
12	<p>Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 20	Go to Step 15
13	<p>Inspect for poor connections at the harness connector of the headlamp and panel dimmer switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 20	Go to Step 17

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14	Inspect for poor connections at the harness connector of the underhood fuse block and terminals at the beam select relay. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 20	Go to Step 18
15	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 20	-
16	Replace the headlamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Did you complete the repair?	Go to Step 20	-
17	Replace the headlamp and panel dimmer switch. Refer to <u>Headlamp Switch Replacement</u> . Did you complete the repair?	Go to Step 20	-
18	Replace the beam select relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Did you complete the repair?	Go to Step 20	-
19	Replace the turn signal/multifunction switch. Refer to <u>Turn Signal Multifunction Switch Replacement</u> . Did you complete the repair?	Go to Step 20	-
20	<ol style="list-style-type: none"> 1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HEADLAMPS FLASH TO PASS INOPERATIVE

Headlamps Flash to Pass Inoperative

Step	Action	Yes	No
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**Schematic Reference: Headlights/Daytime Running Lights (DRL) Schematics
 Connector End View Reference: Lighting Systems Connector End Views or Data
 Communication Connector End Views**

1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the flash to pass (FTP) is inoperative. Does the FTP operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Do the high beam headlamps operate normally?	Go to Step 4	Go to <u>Symptoms - Lighting Systems</u>
4	<ol style="list-style-type: none"> 1. Turn the key to RUN with the engine OFF. 2. Connect a fused jumper from ground to the flash to pass switch signal terminal of the turn signal/multifunction switch connector. 		
	Do the high beam headlamps illuminate?	Go to Step 6	Go to Step 5
5	Test the flash to pass signal circuit for an open or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 10	Go to Step 7
6	Inspect for poor connections at the harness connector of the turn signal/multifunction switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 10	Go to Step 9
7	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .		

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	Did you find and correct the condition?	Go to Step 10	Go to Step 8
8	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 10	-
9	Replace the turn signal/multifunction switch. Refer to <u>Turn Signal Multifunction Switch Replacement</u> . Did you complete the repair?	Go to Step 10	-
10	1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HEADLIGHT LEVELING INOPERATIVE

Headlight Leveling Inoperative

Step	Action	Value(s)	Yes	No
Schematic Reference: <u>Headlight Leveling Schematics</u>				
Connector End View Reference: <u>Lighting Systems Connector End Views</u>				
1	Did you review the Exterior Lighting Systems Description and Operation and perform the necessary inspections?	-	Go to Step 2	Go to <u>Exterior Lighting Systems Description and Operation</u>
2	Verify that the headlight leveling is inoperative. Does the headlight leveling operate normally?	-	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Inspect the HD LMP LEVELING fuse in the underhood fuse block.	-		

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	Is the fuse open?		Go to Step 10	Go to Step 4
4	With ignition switch in RUN, test the supply voltage circuit at the inoperative headlamp leveling motor connector. Refer to Circuit Testing . Is the specified voltage present?	B+	Go to Step 5	Go to Step 11
5	Test the ground circuit at the inoperative headlamp leveling motor connector for continuity to ground. Refer to Circuit Testing . Is continuity present?	-	Go to Step 6	Go to Step 12
6	Connect a digital multimeter (DMM) from ground to the headlamp leveling motor supply voltage circuit at the inoperative headlamp leveling motor connector and adjust the headlamp leveling switch from the highest to lowest setting. Refer to Circuit Testing . Does the DMM display within the specified range?	2.0 V-8.0 V	Go to Step 16	Go to Step 7
7	Test the ground circuit of the headlamp leveling switch for continuity to ground. Refer to Circuit Testing . Is there continuity?	-	Go to Step 8	Go to Step 13
8	Test the supply voltage circuit at the headlamp leveling switch connector. Refer to Circuit Testing . Is the specified voltage present?	B+	Go to Step 9	Go to Step 15
9	With the ignition switch in the OFF position, test for an open, high resistance, short to ground or short to voltage in the headlamp leveling motor	-		

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	supply voltage circuit. Refer to <u>Circuit Testing</u> . Did you find a condition?		Go to Step 14	Go to Step 17
10	Test for a short to ground in the supply voltage circuit. Refer to <u>Circuit Testing</u> and <u>Power Distribution Schematics</u> . Did you find and correct a condition?	-	Go to Step 18	Go to Step 16
11	Repair the open or high resistance in the supply voltage circuit. Refer to <u>Wiring Repairs</u> . Is repair complete?	-	Go to Step 18	-
12	Repair the open or high resistance in the ground circuit. Refer to <u>Wiring Repairs</u> . Is repair complete?	-	Go to Step 18	-
13	Repair the open or high resistance in the ground circuit. Refer to <u>Wiring Repairs</u> . Is repair complete?	-	Go to Step 18	-
14	Repair open, high resistance, short to ground or short to voltage in the headlamp leveling motor supply voltage circuit. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	-	Go to Step 18	-
15	Repair the open or high resistance in the supply voltage circuit. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	-	Go to Step 18	-
16	Replace the inoperative headlamp leveling motor. Refer to <u>Headlamp Replacement</u> . Is repair complete?	-	Go to Step 18	-

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17	Replace headlamp leveling switch. Refer to <u>Headlamp Switch Replacement</u> . Did you complete the repair?	-	Go to Step 18	-
18	Operate the system in order to verify the repair. Did you correct the condition?	-	System OK	Go to Step 3

HIGH BEAM INDICATOR ALWAYS ON

High Beam Indicator Always On

Step	Action	Yes	No
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the high beam indicator is always ON. Does the high beam indicator operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	<ol style="list-style-type: none"> Turn the ignition switch to the RUN position. Turn the headlamp switch to the ON position. Place the turn signal/multifunction switch to the high beams position. Do the high beam headlamps function properly?	Go to Step 4	Go to <u>Symptoms - Lighting Systems</u>
4	<ol style="list-style-type: none"> Place the turn signal/multifunction switch to the low beams position. Using a scan tool, select the IPC Special Functions Display Test to command the high beam indicator ON, then OFF. Does the high beam indicator lamp turn	Go to <u>Testing for Intermittent Conditions and Poor</u>	

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	ON and OFF when commanded?	<u>Connections</u>	Go to Step 5
5	Inspect for poor connections at the harness connector of the instrument panel cluster (IPC). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 7	Go to Step 6
6	Replace the IPC. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 7	-
7	1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

HIGH BEAM INDICATOR INOPERATIVE

High Beam Indicator Inoperative

Step	Action	Yes	No
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the high beam indicator is inoperative. Does the high beam indicator operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	1. Turn the ignition switch to the RUN position. 2. Turn the headlamp switch to the ON position. 3. Place the turn signal/multifunction switch to the high beams position. Do the high beam headlamps function		Go to <u>Symptoms - Lighting</u>

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	properly?	Go to Step 4	Systems
4	<ol style="list-style-type: none"> Place the turn signal/multifunction switch to the low beams position. Using a scan tool, select the IPC Special Functions Display Test to command the high beam indicator ON, then OFF. <p>Does the high beam indicator lamp turn ON and OFF when commanded?</p>	Go to Testing for Intermittent Conditions and Poor Connections	Go to Step 5
5	<p>Inspect for poor connections at the harness connector of the instrument panel cluster (IPC). Refer to Circuit Testing and Wiring Repairs</p> <p>Did you find and correct the condition?</p>	Go to Step 7	Go to Step 6
6	<p>Replace the IPC. Refer to Control Module References for replacement, setup and programming.</p> <p>Did you complete the replacement?</p>	Go to Step 7	-
7	<ol style="list-style-type: none"> Use the scan tool in order to clear any induced DTCs. Operate the system in order to verify the repair. <p>Did you correct the condition?</p>	System OK	Go to Step 3

INTERIOR BACKLIGHTING DOES NOT DIM

Interior Backlighting Does Not Dim

Step	Action	Yes	No
<p>Schematic Reference: <u>Interior Lights Dimming Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u></p>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to Diagnostic System Check - Vehicle
	Verify that the interior backlighting does	Go to Testing	

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2	not dim. Does the interior backlighting operate normally?	<u>for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Use the scan tool to observe the Dimming Potentiometer voltage data in the body control module (BCM) Data List while adjusting the dimmer switch throughout the full range. Does the scan tool data indicate an approximate voltage change from the minimum to the maximum voltage?	Go to Step 6	Go to Step 4
4	Test for a short to ground in the instrument panel lamps dimming signal circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct a condition?	Go to Step 9	Go to Step 5
5	Inspect for poor connections at the harness connector of the headlamp and panel dimmer switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 9	Go to Step 7
6	Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 9	Go to Step 8
7	Replace the headlamp and panel dimmer switch. Refer to <u>Headlamp Switch Replacement</u> . Did you complete the replacement?	Go to Step 9	-
8	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 9	-
9	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

INTERIOR BACKLIGHTING INOPERATIVE

Interior Backlighting Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Dimming Schematics</u>			
Connector End View Reference: <u>Master Electrical Component List</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the interior backlighting is inoperative. Does the interior backlighting operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Do the park lamps operate correctly?	Go to Step 4	Go to <u>Symptoms - Lighting Systems</u>
4	Are all of the interior backlighting lamps inoperative?	Go to Step 7	Go to Step 5
5	Test for an open or high resistance in the following circuits of the inoperative lamp. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .		
	<ul style="list-style-type: none"> • The instrument panel lamps supply voltage • The park lamp supply voltage • The ground 		
	Did you find and correct a condition?	Go to Step 10	Go to Step 6
6	Connect a test lamp between the supply voltage circuit and ground circuit of the inoperative lamp. Refer to <u>Wiring Repairs</u> .		
	Does the test lamp illuminate?	Go to Step 8	Go to Step 7
	Inspect for poor connections at the harness connector of the body control module		

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7	(BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 10	Go to Step 9
8	Replace the affected lamp or internal lamp component. Did you complete the replacement?	Go to Step 10	-
9	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 10	-
10	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

LICENSE LAMPS INOPERATIVE

License Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the license lamps are inoperative. Do the license lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Is the right tail lamp inoperative also?	Go to Step 5	Go to Step 4
4	Inspect the inoperative bulbs/sockets for open filaments or poor terminal contact. Does any lamp have an open filament or poor terminal contact?	Go to Step 7	Go to Step 6
5	Repair the open, high resistance or short to ground in the park lamp supply voltage circuit. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 8	-

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6	Repair the open or high resistance in the park lamps supply voltage circuit or ground circuit. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 8	-
7	Replace the inoperative bulb or repair/replace the socket. Refer to <u>Wiring Repairs</u> in Wiring Systems or <u>Rear License Lamp Replacement (Base)</u> or <u>Rear License Lamp Replacement (with BRM and RHD)</u> . Did you complete the repair?	Go to Step 8	-
8	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

MARKER LAMPS INOPERATIVE

Marker Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the marker lamps are inoperative. Do the marker lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Place the headlamp switch in the PARK position. Do the park lamps operate normally?	Go to Step 4	Go to <u>Symptoms - Lighting Systems</u>
4	Inspect the inoperative bulb and socket for an open filament or poor terminal connections. Does any lamp have an open filament or		

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	poor terminal connections?	Go to Step 6	Go to Step 5
5	<p>Repair an open or high resistance in one of the following circuits:</p> <ul style="list-style-type: none"> • Marker lamp supply voltage • Ground <p>Refer to Wiring Repairs . Did you complete the repair?</p>	Go to Step 7	-
6	<p>Replace the defective bulb or repair/replace the socket. Refer to Front Side Marker Lamp Bulb Replacement. Did you complete the repair?</p>	Go to Step 7	-
7	<p>Operate the system in order to verify the repair. Did you correct the condition?</p>	System OK	Go to Step 3

OFF-ROAD LAMPS ALWAYS ON

Off-Road Lamps Always On

Step	Action	Yes	No
<p>Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u></p>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to Diagnostic System Check - Vehicle
2	Place the off-road lamps switch in the ON and then the OFF positions. Does the system operate normally?	Go to Testing for Intermittent Conditions and Poor Connections	Go to Step 3
3	Disconnect the off-road lamps switch. Do the off-road lamps turn OFF?	Go to Step 6	Go to Step 4
	<ol style="list-style-type: none"> 1. Reconnect the off-road lamps switch. 2. Disconnect both off-road lamps 		

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4	<p>relays, noting which one turns off the lamps. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> .</p> <p>Do the off-road lamps turn OFF?</p>	Go to Step 5	Go to Step 8
5	<p>Test the off-road lamps relay control circuit of the off-road lamps switch for a short to voltage. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 11	Go to Step 7
6	<p>Inspect for poor connections at the harness connector of the off-road lamps switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 11	Go to Step 9
7	<p>Inspect for poor connections at the harness connector of the off-road lamps relay. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> .</p> <p>Did you find and correct the condition?</p>	Go to Step 11	Go to Step 10
8	<p>Repair the off-road lamps supply voltage circuit for a short to voltage. Refer to <u>Wiring Repairs</u> .</p> <p>Did you complete the repair?</p>	Go to Step 11	-
9	<p>Replace the off-road lamps switch. Refer to <u>Off Road Lamp Switch Replacement</u>.</p> <p>Did you complete the replacement?</p>	Go to Step 11	-
10	<p>Replace the appropriate off-road lamps relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> .</p> <p>Did you complete the repair?</p>	Go to Step 11	-

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11	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3
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OFF-ROAD LAMPS INOPERATIVE

Off-Road Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the off-road lamps are inoperative. Do the off-road lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Is only one off-road lamp inoperative?	Go to Step 4	Go to Step 6
4	Test the supply voltage circuit of the inoperative lamp for high resistance, short to ground or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 21	Go to Step 5
5	Test the ground circuit of the inoperative lamp for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 21	Go to Step 13
6	Connect a test lamp between the battery positive voltage circuit of the off-road lamps switch and a good ground. Does the test lamp illuminate?	Go to Step 7	Go to Step 16
7	Connect a 3-amp fused jumper wire between the battery positive circuit and the off-road lamp relay control circuit of the off-road lamps switch.		

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	Do the off-road lamps illuminate?	Go to Step 15	Go to Step 8
8	Connect a 3-amp fused jumper wire between the battery positive circuit and the off-road lamp supply voltage circuit of the off-road lamps relay. Do the off-road lamps illuminate?	Go to Step 9	Go to Step 11
9	Test the off-road lamp relay control circuit of the off-road lamps switch for high resistance, short to ground or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 21	Go to Step 10
10	Test the ground circuit of the off-road lamps relay for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 21	Go to Step 11
11	Test the battery positive voltage circuit of the off-road lamps relay for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 21	Go to Step 12
12	Test the ground circuit of the off-road lamps for high resistance or an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 21	Go to Step 17
13	Inspect for poor connections at the harness connector of the off-road lamp. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> . Did you find and correct the condition?	Go to Step 21	Go to Step 18
14	Inspect for poor connections at the harness connector of the off-road lamps relay. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> . Did you find and correct the condition?	Go to Step 21	Go to Step 19

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15	Inspect for poor connections at the harness connector of the off-road lamps switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections and Connector Repairs</u> . Did you find and correct the condition?	Go to Step 21	Go to Step 20
16	Repair the battery positive voltage circuit of the off-road lamps switch. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 21	-
17	Repair the supply voltage circuit of the off-road lamps. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 21	-
18	Replace the inoperative off-road lamp. Refer to <u>Off Road Lamp Bulb Replacement</u> . Did you complete the replacement?	Go to Step 21	-
19	Replace the inoperative off-road lamps relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Did you complete the replacement?	Go to Step 21	-
20	Replace the off-road lamps switch. Refer to <u>Off Road Lamp Switch Replacement</u> . Did you complete the replacement?	Go to Step 14	-
21	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

PARK LAMPS INOPERATIVE

Park Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u>			
	Did you perform the Diagnostic System		Go to

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1	Check - Vehicle?	Go to Step 2	<u>Diagnostic System Check - Vehicle</u>
2	Verify that the front park lamps are inoperative. Do the park lamps operate normally?	Go to Testing for Intermittent Conditions and Poor Connections	Go to Step 3
3	Inspect the FRT PARK LAMP fuse in the underhood fuse block. Is the fuse open?	Go to Step 5	Go to Step 4
4	Inspect the inoperative bulbs/sockets for open or shorted filaments/terminals. Does any lamp have an open or shorted filament/terminals?	Go to Step 7	Go to Step 6
5	Repair the short to ground in the park lamps supply voltage circuit. Refer to Wiring Repairs . Did you complete the repair?	Go to Step 8	-
6	Repair an open or high resistance in the park lamps supply voltage circuit or ground circuit to the inoperative lamp. Refer to Wiring Repairs . Did you complete the repair?	Go to Step 8	-
7	Replace the defective bulb/socket. Refer to Daytime Running Lamp Bulb Replacement . Did you complete the repair?	Go to Step 8	-
8	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

PARK, LICENSE AND TAIL LAMPS ALWAYS ON

Park, License and Tail Lamps Always On

Step	Action	Yes	No
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Schematic Reference: Exterior Lights Schematics

Connector End View Reference: Lighting Systems Connector End Views or Data

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Communication Connector End Views

1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the park, license and tail lamps are always on. Do the park, license and tail lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Remove the park lamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Do the park lamps turn OFF?	Go to Step 4	Go to Step 9
4	1. Ensure that the headlamp switch is in the OFF or AUTO position and there is sufficient light to the ambient light sensor. 2. Test for a ground signal at the park lamp relay control circuit terminal in the underhood fuse block. Refer to <u>Electrical Center Identification Views</u> and <u>Circuit Testing</u> . Was a ground signal present?	Go to Step 5	Go to Step 10
5	Use the scan tool to check the body control module (BCM) Park Lamp Switch input data. Does the scan tool indicate a park lamps OFF request signal?	Go to Step 8	Go to Step 6
6	Test for a short to ground in the park lamp switch on signal circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 7
7	Inspect for poor connections at the harness connector of the headlamp and panel dimmer switch. Refer to <u>Circuit Testing</u>		

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	and Wiring Repairs . Did you find and correct the condition?	Go to Step 13	Go to Step 11
8	Inspect for poor connections at the harness connector of the BCM. Refer to Circuit Testing and Wiring Repairs . Did you find and correct the condition?	Go to Step 13	Go to Step 12
9	Repair the short to voltage in one of the following circuits. Refer to Wiring Repairs : <ul style="list-style-type: none"> • The park lamp supply voltage • The tail lamp supply voltage • The license lamp supply voltage • The marker lamp supply voltage Did you complete the repair?	Go to Step 13	-
10	Replace the park lamp relay. Refer to Relay Replacement (Attached to Wire Harness) or Relay Replacement (Within an Electrical Center) . Did you complete the repair?	Go to Step 13	-
11	Replace the headlamp switch. Refer to Headlamp Switch Replacement . Did you complete the repair?	Go to Step 13	-
12	Replace the BCM. Refer to Control Module References for replacement, setup and programming. Did you complete the replacement?	Go to Step 13	-
13	<ol style="list-style-type: none"> 1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

Park, License and Tail Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the park, license and tail lamps are inoperative. Do the park, license and tail lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	<ol style="list-style-type: none"> 1. Remove the park lamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . 2. Ensure that the headlamp switch is in the ON position. 3. Test for a ground signal at the park lamp relay control circuit terminal in the underhood fuse block. Refer to <u>Circuit Testing</u> and <u>Electrical Center Identification Views</u> . 		
	Was a ground signal present?	Go to Step 8	Go to Step 4
4	Use the scan tool to check the body control module (BCM) park lamp switch input data. Does the scan tool indicate a park lamps ON request signal?	Go to Step 7	Go to Step 5
5	Test for an open or high resistance in the park lamp switch on signal circuit. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 11	Go to Step 6
	Inspect for poor connections at the harness		

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6	connector of the headlamp and panel dimmer switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 11	Go to Step 9
7	Inspect for poor connections at the harness connector of the BCM. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 11	Go to Step 10
8	Replace the park lamp relay. Refer to <u>Relay Replacement (Attached to Wire Harness)</u> or <u>Relay Replacement (Within an Electrical Center)</u> . Did you complete the repair?	Go to Step 11	-
9	Replace the headlamp switch. Refer to <u>Headlamp Switch Replacement</u> . Did you complete the repair?	Go to Step 11	-
10	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 11	-
11	<ol style="list-style-type: none"> 1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

POSITION LAMPS MALFUNCTION

Diagnostic Instructions

- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- **Strategy Based Diagnosis**
- **Diagnostic Procedure Instructions**

Circuit/System Description

The underhood fuse block supplies battery voltage through the FRT POS fuse to the coil and switch terminals of the FRT POSITION LMP relay located in the underhood fuse block. The

underhood fuse block also provides battery voltage to the PARK LP relay coil and switch terminals. When the headlamp switch is turned to the position lamp ON position, a signal is sent to the BCM to ground both the FRT POSITION LMP relay and PARK LP relay control circuits. This energizes the relays, closing the switch contacts and provides battery voltage to the front and rear position lamps. The front position lamps are permanently grounded at G105 and the rear position lamps are grounded at G420. With both power and ground, the position lamps illuminate. If the headlamps are activated by either the headlamp switch or the BCM in Automatic Lamp Control (ALC) mode, just the front position lamps will be disabled.

Reference Information

Schematic Reference

Exterior Lights Schematics

Connector End View Reference

Lighting Systems Connector End Views

Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

Scan Tool Reference

- **Scan Tool Output Controls**
- **Scan Tool Data List**
- **Scan Tool Data Definitions**

Circuit/System Testing

1. Ignition On, observe the scan tool DRL Status data parameter while toggling the headlamp switch between the position lamps ON and OFF positions.
 - If the parameter does not change between states, test the position lamps switch signal circuit for an open, high resistance or short to ground. If the circuit tests normal, test or replace the headlamp switch.
2. Ignition OFF, disconnect the FRT POSITION LMP relay.
3. Ignition ON, verify that a test lamp does not illuminate between the relay controlled output

circuit and ground.

- If the test lamp illuminates, test the relay controlled output circuit for a short to voltage.
4. Verify that a test lamp illuminates between the relay coil B+ circuit and ground.
 - If the test lamp does not illuminate, test the relay coil B+ circuit for a short to ground or an open/high resistance. If the circuit tests normal and the B+ circuit fuse is open, test the relay controlled output circuit for a short to ground. If the circuit tests normal, test or replace the front position lamp relay.
 5. Verify that a test lamp illuminates between the relay switch B+ circuit and ground.
 - If the test lamp does not illuminate, test the relay switch B+ circuit for an open/high resistance.
 6. Disconnect the harness connector at the inoperative position lamp.
 7. Test for less than 1.0 ohm of resistance between the inoperative position lamp ground circuit terminal 1 and ground.
 - If greater than the specified range, test the ground circuit for an open/high resistance.
 8. Connect the harness connector at the inoperative position lamp.
 9. Connect a 10-A fused jumper wire between the relay switch B+ circuit and the relay controlled output circuit. Verify the position lamps are activated.
 - If the position lamps do not activate, test the relay controlled output circuit for an open/high resistance. If the circuit tests normal, test or replace the inoperative position lamp bulb.
 10. Connect a test lamp between the relay coil B+ circuit and the relay coil control circuit.
 11. Command the position lamps ON and OFF with the scan tool utilizing the Daytime Running Lamps output control. The test lamp should turn ON and OFF when changing between the commanded states.
 - If the test lamp is always ON, test the relay coil control circuit for a short to ground. If the circuit tests normal, replace the BCM.
 - If the test lamp is always OFF, test the relay coil control circuit for a short to voltage or an open/high resistance. If the circuit tests normal, replace the BCM.
 12. If all circuits test normal, test or replace the position lamp relay.

Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

- **Relay Replacement (Attached to Wire Harness)** or **Relay Replacement (Within an Electrical Center)** .

- **Position Lamp Bulb Replacement.**
- **Control Module References** for BCM replacement, setup and programming.

STOP LAMPS ALWAYS ON

Stop Lamps Always On

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u> Connector End View Reference: <u>Lighting Systems Connector End Views</u>			
1	Did you review the Exterior Lighting Systems Description and Operation and perform the necessary inspections?	Go to Step 2	Go to <u>Exterior Lighting Systems Description and Operation</u>
2	Verify that the stop lamps are always ON. Do the stop lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Disconnect the stop lamp switch. Do the stop lamps remain illuminated?	Go to Step 4	Go to Step 5
4	Test for a short to voltage in one of the following circuits or components. Refer to <u>Wiring Repairs</u> . <ul style="list-style-type: none"> • Stop lamp switch signal • Center high mounted stop lamp (CHMSL) supply voltage • Stop lamp supply voltage • Electronic brake control module (EBCM) center high mounted stop lamp (CHMSL) supply voltage input • Powertrain control module (PCM) center high mounted stop lamp (CHMSL) supply voltage input Did you find and correct the condition?	Go to Step 7	Go to Step 6

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5	Replace the stop lamp switch. Refer to <u>Stop Lamp Switch Replacement</u> . Did you complete the repair?	Go to Step 7	-
6	Replace the body control module (BCM). Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the repair?	Go to Step 7	-
7	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

STOP LAMPS INOPERATIVE

Stop Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u>			
1	Did you review the Exterior Lighting Systems Description and Operation and perform the necessary inspections?	Go to Step 2	Go to <u>Exterior Lighting Systems Description and Operation</u>
2	Verify that the stop lamps are inoperative. Do the stop lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Is only one lamp inoperative?	Go to Step 4	Go to Step 5
4	Inspect the lamp for an open filament or poor connector terminal contact. Was a condition found?	Go to Step 11	Go to Step 10
5	Connect a test lamp from ground to the supply voltage circuit terminal of the inoperative lamp socket or connector and apply the service brake. Refer to <u>Circuit Testing</u> . Does the test lamp illuminate?	Go to Step 8	Go to Step 6
	Remove the stop lamp switch and install a		

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6	fused jumper between the stop lamp switch battery positive voltage circuit terminal and the stop lamp switch signal circuit terminal of the stop lamp switch connector. Do the stop lamps illuminate?	Go to Step 12	Go to Step 7
7	<p>Test for one of the following conditions. Refer to <u>Circuit Testing</u> .</p> <ul style="list-style-type: none"> • An open, high resistance or short to ground in the battery positive voltage circuit or the stop lamp supply voltage circuit. • An open or high resistance in the ground circuit. <p>Did you find and correct the condition?</p>	Go to Step 14	Go to Step 9
8	Repair the open or high resistance in the ground circuit of the inoperative lamp. Refer to <u>Wiring Repairs</u> . Is the repair complete?	Go to Step 14	-
9	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> . Did you find and correct the condition?	Go to Step 14	Go to Step 13
10	<p>Repair one of the following conditions. Refer to <u>Wiring Repairs</u> .</p> <ul style="list-style-type: none"> • An open, high resistance or a short to ground in the stop lamp supply voltage circuit • An open or high resistance in the ground circuit <p>Is the repair complete?</p>	Go to Step 14	-
	Repair the connector or replace the bulb.		

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11	Refer to <u>Wiring Repairs , Tail Lamp Bulb Replacement</u> or <u>High Mount Stop Lamp Replacement</u> . Is the repair complete?	Go to Step 14	-
12	Replace the stop lamp switch. Refer to <u>Stop Lamp Switch Replacement</u> . Did you complete the replacement?	Go to Step 14	-
13	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the replacement?	Go to Step 14	-
14	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

TAIL LAMPS INOPERATIVE

Tail Lamps Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the tail lamps are inoperative. Do the tail lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Inspect the appropriate fuse for the inoperative lamps in the underhood fuse block. Is the fuse open?	Go to Step 5	Go to Step 4
4	Inspect the inoperative bulbs/sockets for open or shorted filaments/terminals. Does any lamp have an open or shorted filament/terminals?	Go to Step 7	Go to Step 6

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5	Repair the short to ground in the inoperative tail lamps supply voltage circuit or license lamp supply voltage circuit. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 8	-
6	Repair the open or high resistance in the inoperative tail lamps supply voltage circuit or ground circuit. Refer to <u>Wiring Repairs</u> . Did you complete the repair?	Go to Step 8	-
7	Replace the defective bulb/socket. Refer to <u>Tail Lamp Bulb Replacement</u> . Did you complete the repair?	Go to Step 8	-
8	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

TURN SIGNAL LAMPS AND/OR INDICATORS ALWAYS ON OR FLASHING

Turn Signal Lamps and/or Indicators Always On or Flashing

Step	Action	Yes	No
Schematic Reference: <u>Exterior Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u> or <u>Data Communication Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the turn signal lamps and/or indicators are always ON or flashing. Do the turn signal lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Inspect the affected bulb/socket for an internal short, poor terminal contact or a shorted filament. Was a problem found?	Go to Step 8	Go to Step 4
	Disconnect the multifunction turn signal		

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4	switch. Do the affected turn signals and indicators still illuminate?	Go to Step 5	Go to Step 6
5	Test for a high resistance or short to ground in the turn signal switch signal circuit. Did you find and correct the condition?	Go to Step 11	Go to Step 7
6	Inspect for poor connections at the multifunction turn signal switch. Refer to Circuit Testing and Wiring Repairs . Did you find and correct the condition?	Go to Step 11	Go to Step 9
7	Inspect for poor connections at the body control module (BCM). Refer to Circuit Testing and Wiring Repairs . Did you find and correct the condition?	Go to Step 11	Go to Step 10
8	Replace or repair the affected bulb/socket. Refer to Daytime Running Lamp Bulb Replacement or Tail Lamp Bulb Replacement . Did you complete the repair?	Go to Step 11	-
9	Replace the turn signal/multifunction switch. Refer to Turn Signal Multifunction Switch Replacement . Did you complete the repair?	Go to Step 11	-
10	Replace the BCM. Refer to Control Module References for replacement, setup and programming. Did you complete the repair?	Go to Step 11	-
11	1. Use the scan tool in order to clear any induced DTCs. 2. Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

TURN SIGNAL LAMPS AND/OR INDICATORS INOPERATIVE

Turn Signal Lamps and/or Indicators Inoperative

Step	Action	Yes	No
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Schematic Reference: Exterior Lights Schematics**Connector End View Reference: Lighting Systems Connector End Views or Data Communication Connector End Views**

1	Did you perform the Diagnostic System Check - Vehicle?	Go to Step 2	Go to <u>Diagnostic System Check - Vehicle</u>
2	Verify that the turn signal lamps and/or indicators are inoperative. Do the turn signal lamps and/or indicators operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Are only the turn signal indicators in the instrument panel cluster (IPC) inoperative?	Go to Step 4	Go to Step 5
4	Test the inoperative turn signal supply voltage circuit to the IPC for an open or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 7
5	1. Place the ignition switch to the ON position with the engine OFF. 2. Using a scan tool, command the left and right turn signals ON and OFF with the BCM special functions scan tool output controls. Can you activate the turn signals with the scan tool?	Go to Step 6	Go to Step 9
6	Test for one of the following conditions. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . <ul style="list-style-type: none"> • An open, high resistance, short to ground or short to voltage in the turn signal switch signal circuit • An open or high resistance in the turn signal/multifunction switch ground circuit 		

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	Did you find and correct the condition?	Go to Step 13	Go to Step 8
7	Inspect for poor connections at the IPC. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 10
8	Inspect for poor connections at the multifunction turn signal switch. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 11
9	Inspect for poor connections at the body control module (BCM). Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> . Did you find and correct the condition?	Go to Step 13	Go to Step 12
10	Replace the IPC. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the repair?	Go to Step 13	-
11	Replace the turn signal/multifunction switch. Refer to <u>Turn Signal Multifunction Switch Replacement</u> . Did you complete the repair?	Go to Step 13	-
12	Replace the BCM. Refer to <u>Control Module References</u> for replacement, setup and programming. Did you complete the repair?	Go to Step 13	-
13	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

VANITY MIRROR LAMP(S) INOPERATIVE

Vanity Mirror Lamp(s) Inoperative

Step	Action	Yes	No
Schematic Reference: <u>Interior Lights Schematics</u>			
Connector End View Reference: <u>Lighting Systems Connector End Views</u>			
	Did you perform the Diagnostic System Check - Vehicle?		Go to Diagnostic

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1		Go to Step 2	<u>System Check - Vehicle</u>
2	Verify that the visor vanity mirror lamps are inoperative. Do the visor vanity mirror lamps operate normally?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u>	Go to Step 3
3	Connect a test lamp from the inadvertent power courtesy lamps supply voltage circuit above the headliner at the inoperative visor vanity mirror connector to ground. Refer to <u>Circuit Testing</u> . Does the test lamp illuminate?	Go to Step 4	Go to Step 5
4	Connect a test lamp between the inadvertent power courtesy lamps supply voltage circuit and the ground circuit at the inoperative visor vanity mirror lamp connector. Refer to <u>Circuit Testing</u> . Does the test lamp illuminate?	Go to Step 7	Go to Step 6
5	Repair the open, high resistance or short to ground in the inadvertent power courtesy lamps supply voltage circuit. Refer to <u>Wiring Repairs</u> . Is the repair complete?	Go to Step 8	-
6	Repair the open or high resistance in the ground circuit. Refer to <u>Wiring Repairs</u> . Is the repair complete?	Go to Step 8	-
7	1. Inspect the inoperative visor mirror bulb for an open filament and replace as necessary. 2. If the bulb is good, replace the sunshade. Refer to <u>Sunshade Replacement</u> . Is the repair complete?	Go to Step 8	-
8	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

REPAIR INSTRUCTIONS

STOP LAMP SWITCH ADJUSTMENT

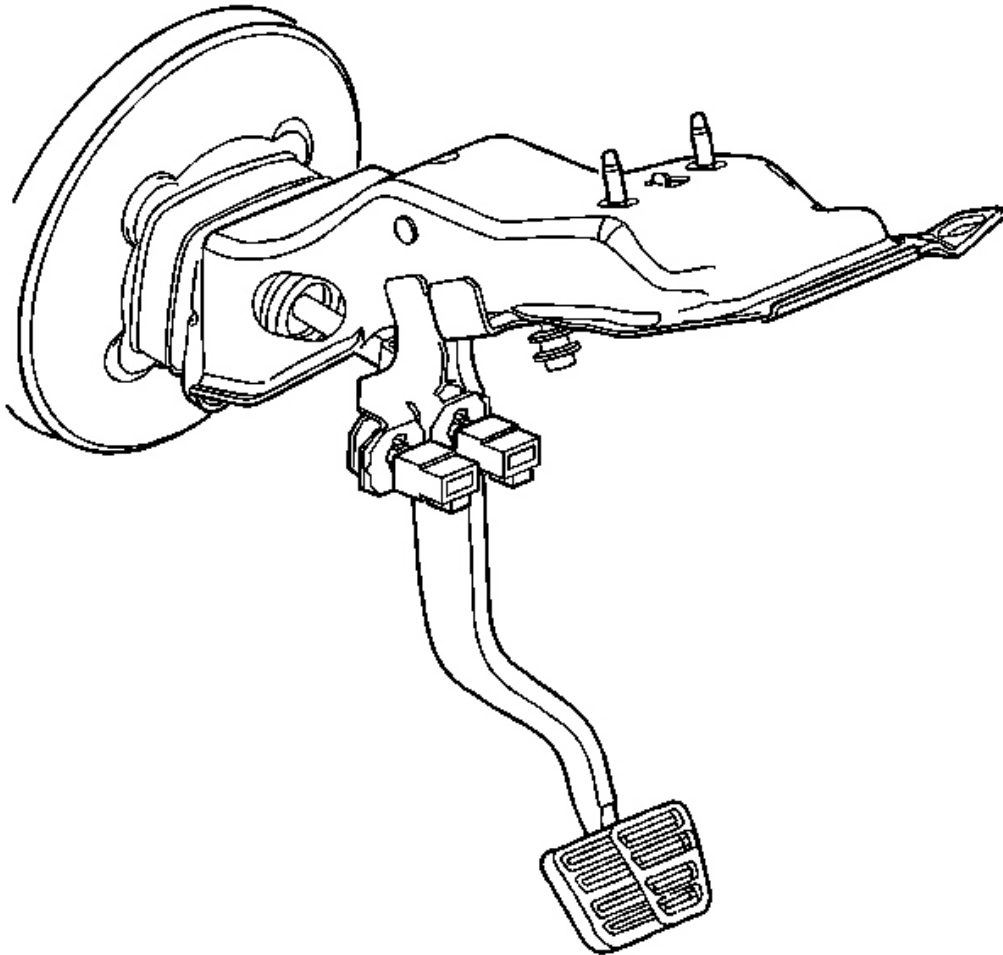


Fig. 88: View Of Brake Pedal
Courtesy of GENERAL MOTORS CORP.

1. Rotate the switch counterclockwise, allowing the retainer to release.
2. Pull the brake pedal rearward to full stop.

IMPORTANT: Do not move the brake pedal during switch adjustment as

this will cause an over-adjusted switch which could cause brake drag.

3. While holding the brake pedal **FIRMLY** in position rearward, push the switch inward fully until the switch body contacts the brake pedal arm striker plate.

At this point the plunger in the switch should be pushed in.

4. Rotate the switch clockwise until a "click" is heard.
5. The switch is properly adjusted when there is 7 mm (0.028 in) clearance between the end of the switch barrel and the striker plate on the brake pedal arm.

STOP LAMP SWITCH REPLACEMENT

Removal Procedure

1. Disconnect the stop lamp switch electrical connectors (1).

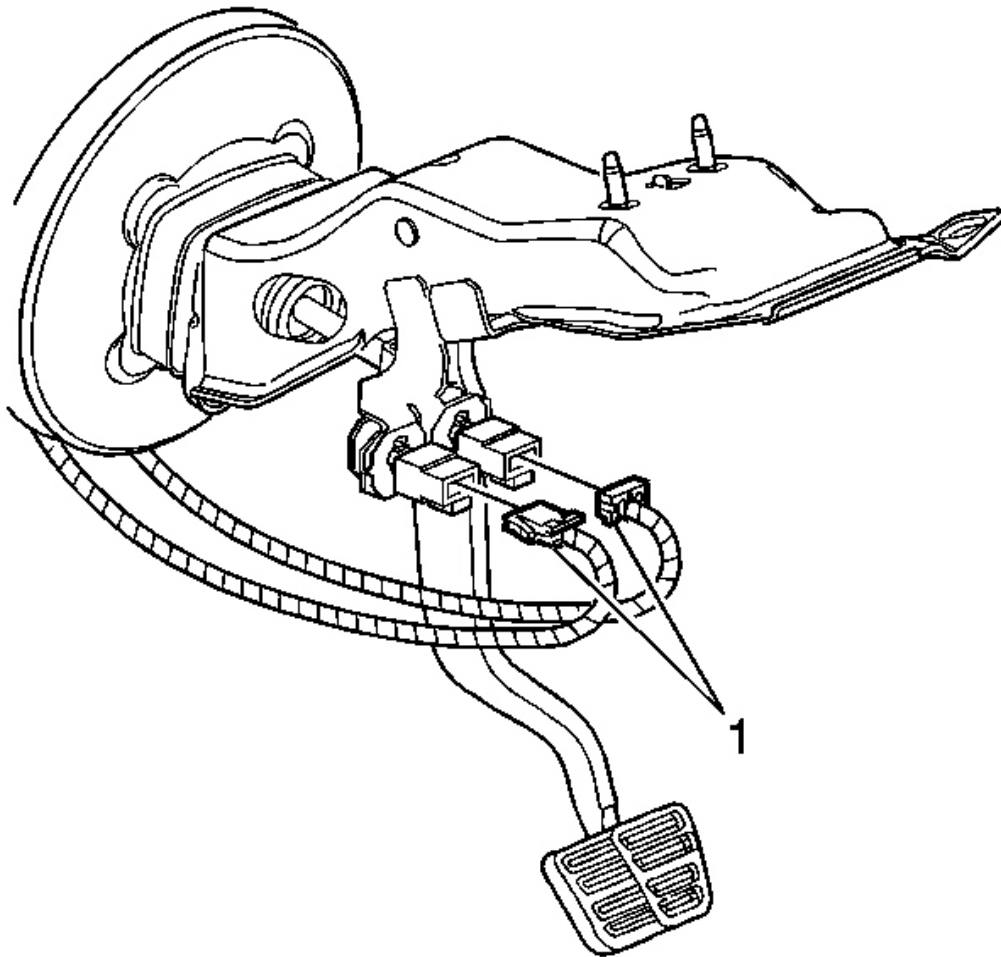


Fig. 89: View Of Stop Lamp Electrical Connectors
Courtesy of GENERAL MOTORS CORP.

2. Rotate the switch counterclockwise.
3. Remove the switch from the bracket.
4. Remove the switch from the vehicle.

Installation Procedure

1. Position the switch near the bracket.
2. Ensure the switch key-way is properly indexed to the plastic retainer.

3. Install and adjust the switch. Refer to Stop Lamp Switch Adjustment.

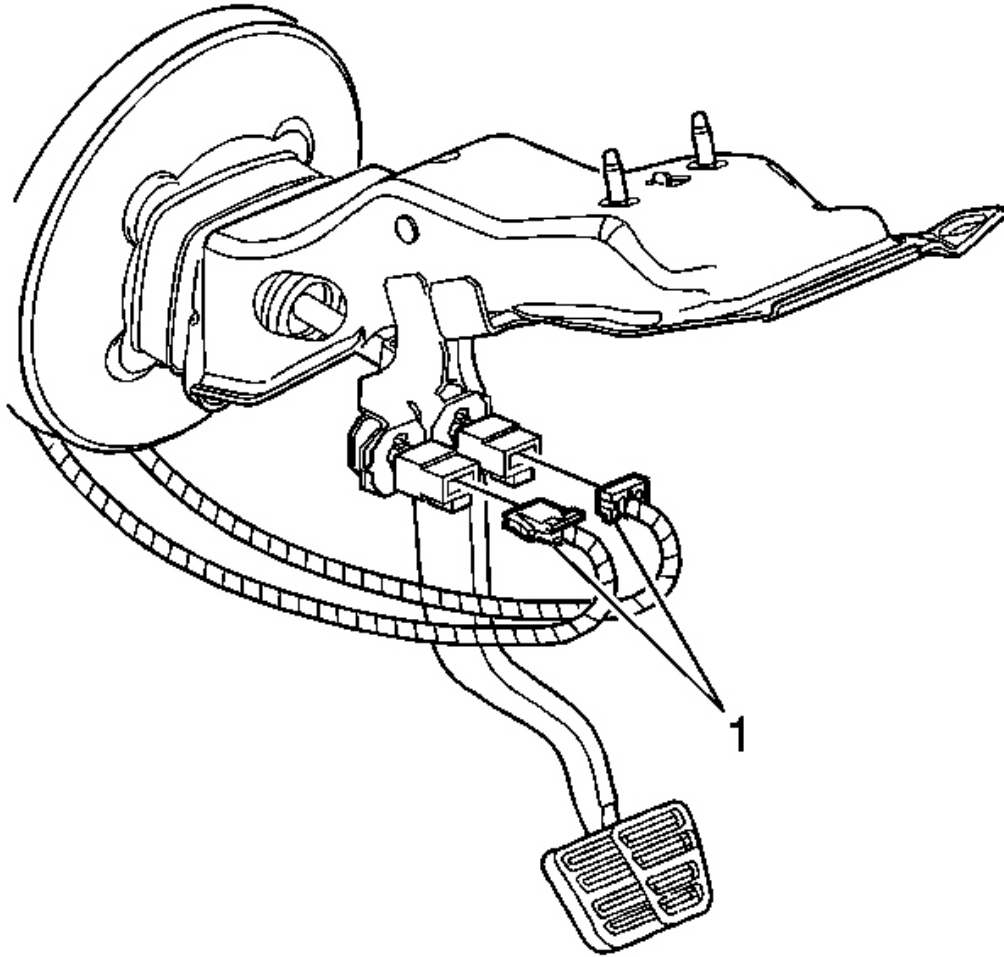


Fig. 90: View Of Stop Lamp Electrical Connectors
Courtesy of GENERAL MOTORS CORP.

4. Connect the stop lamp switch electrical connectors (1).
5. Check the switch for proper operation.

HEADLAMP SWITCH REPLACEMENT

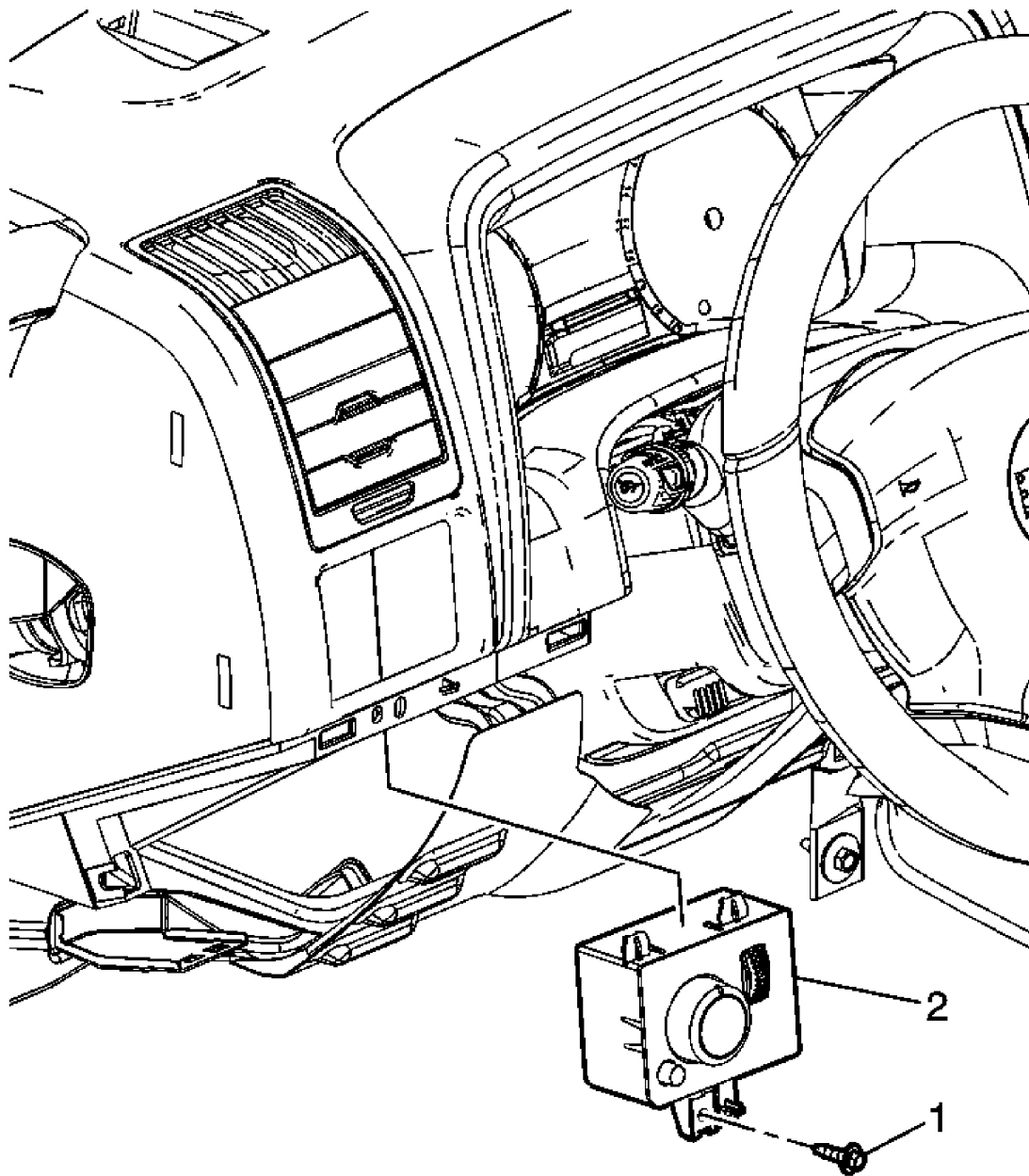


Fig. 91: Headlamp Switch Replacement
 Courtesy of GENERAL MOTORS CORP.

Headlamp Switch Replacement

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> .	

Fastener Tightening Specifications: Refer to **Fastener Tightening Specifications**. **Preliminary Procedure:** Remove the left knee bolster panel. Refer to **Driver Knee Bolster Replacement (Left Hand Drive)** or **Driver Knee Bolster Replacement (Right Hand Drive)** .

1	Screw, Headlamp Switch Tighten: 2 N.m (18 lb in)
2	Switch Assembly, Headlamp Tip: Disconnect the electrical connector.

FRONT SIDE DOOR JAMB SWITCH REPLACEMENT

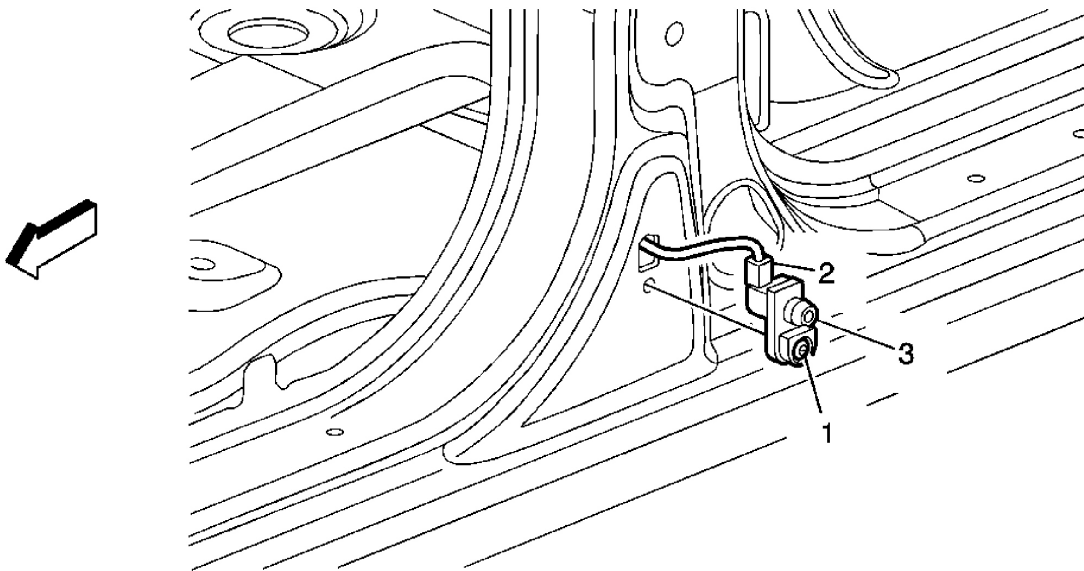


Fig. 92: Door Jamb Switch Replacement - Front
Courtesy of GENERAL MOTORS CORP.

Front Side Door Jamb Switch Replacement

Callout	Component Name
NOTE: Refer to Fastener Notice .	
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
1	Screw, Door Jamb Switch (Qty: 1) Tighten: 2 N.m (18 lb in)

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2	Connector, Door Jamb Switch Electrical Harness
3	Switch, Door Jamb (Qty: 1)

REAR DOOR JAMB SWITCH REPLACEMENT

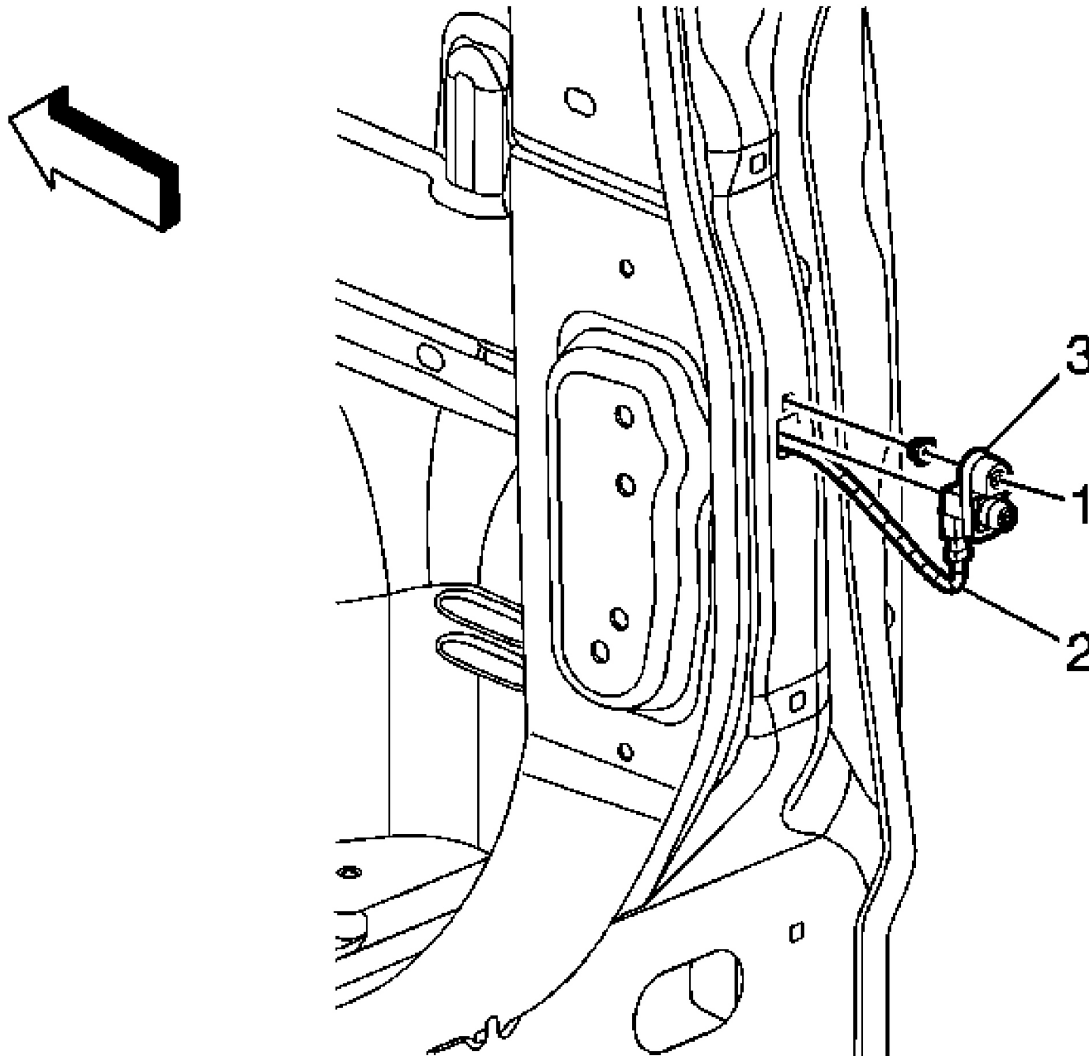


Fig. 93: Door Jamb Switch Replacement - Rear
Courtesy of GENERAL MOTORS CORP.

Rear Door Jamb Switch Replacement

Callout	Component Name
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NOTE:
Refer to Fastener Notice .

Fastener Tightening Specifications: Refer to Fastener Tightening Specifications.

1	Screw, Rear Endgate Switch (Qty: 1) Tighten: 2 N.m (18 lb in)
2	Connector, Switch Electrical Harness
3	Switch, Rear Endgate (Qty: 1)

HAZARD WARNING SWITCH REPLACEMENT

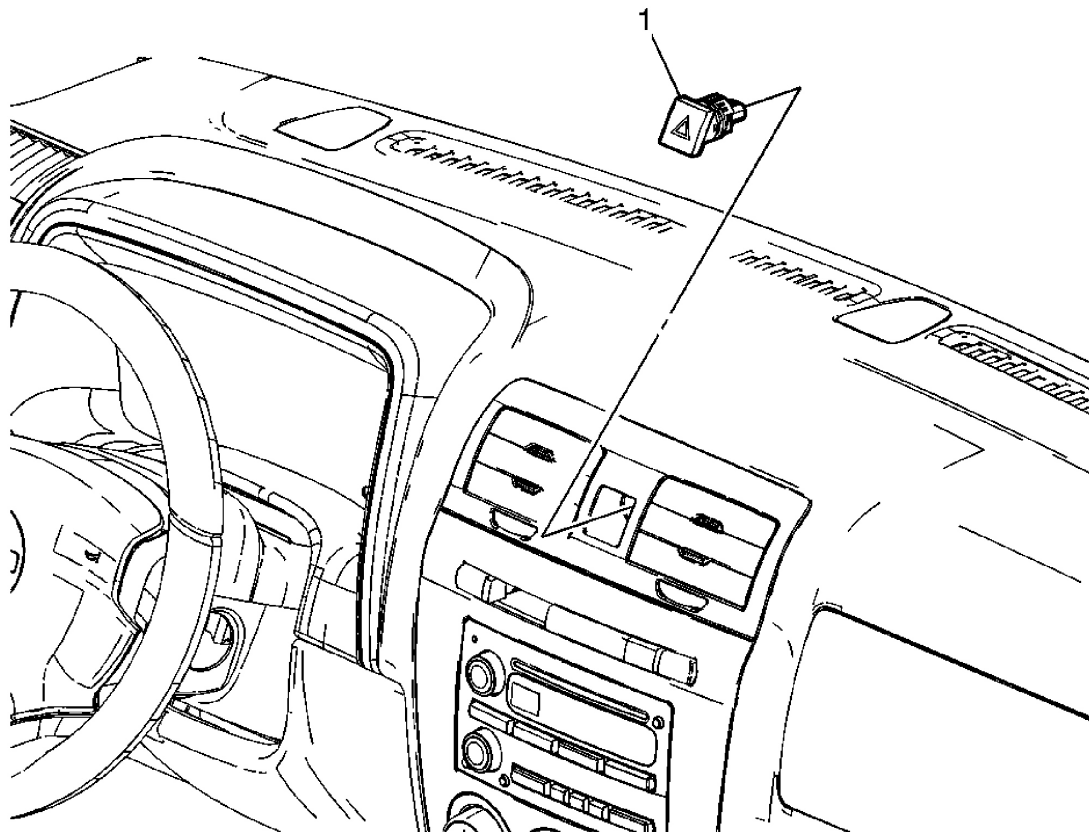


Fig. 94: Hazard Warning Switch Replacement
Courtesy of GENERAL MOTORS CORP.

Hazard Warning Switch Replacement

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
	Switch Assembly, Hazard Lamp Tip:

1

1. Use a small plastic trim tool to remove the switch.
2. Disconnect the electrical connector.

AMBIENT LIGHT SENSOR REPLACEMENT

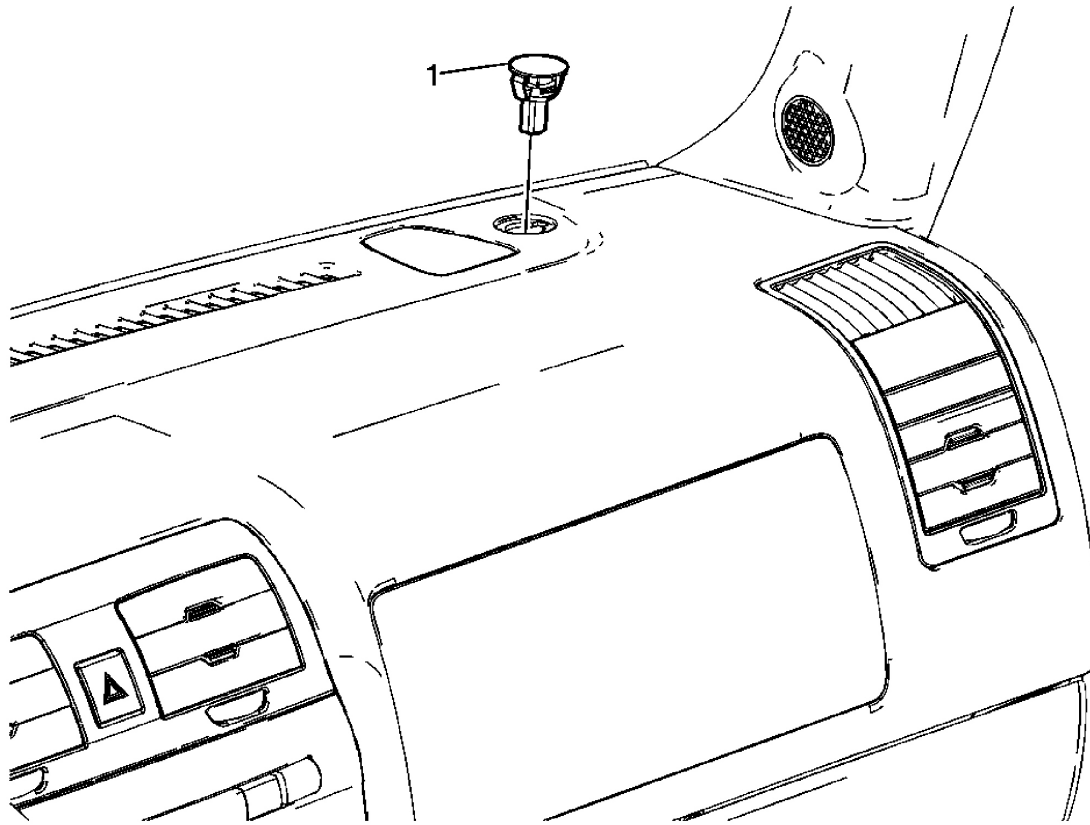


Fig. 95: Ambient Light Sensor Replacement
 Courtesy of GENERAL MOTORS CORP.

Ambient Light Sensor Replacement

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u>.	
1	Sensor Assembly, Ambient Light Tip: <ol style="list-style-type: none"> 1. Use a small plastic trim tool to remove the sensor. 2. Disconnect the electrical connector.

OFF ROAD LAMP SWITCH REPLACEMENT

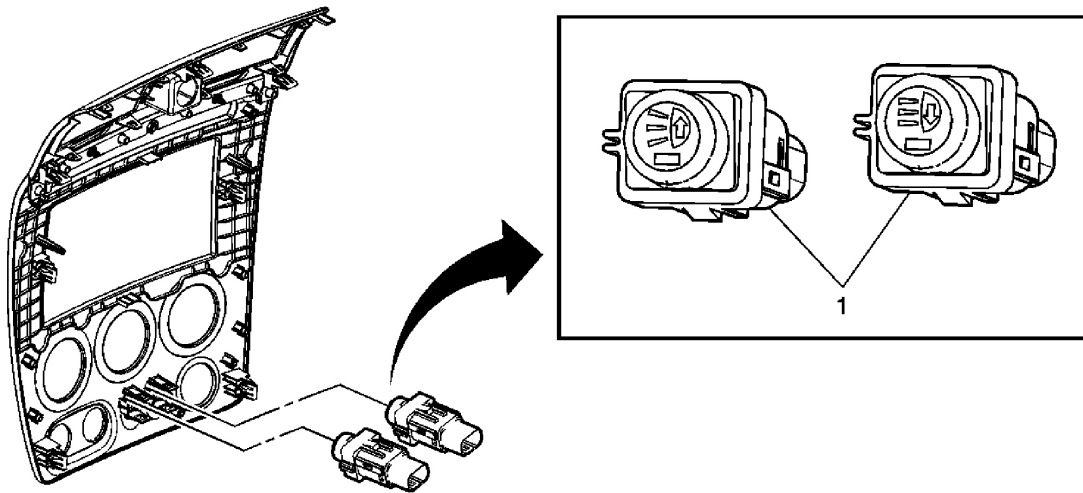


Fig. 96: Switch Replacement - Off-Road Lamps
 Courtesy of GENERAL MOTORS CORP.

Off Road Lamp Switch Replacement

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedure:	
Remove the center instrument panel (I/P) trim panel. Refer to <u>Instrument Panel Center Trim Panel Replacement (Left Hand Drive)</u> or <u>Instrument Panel Center Trim Panel Replacement (Right Hand Drive)</u> .	
1	Off Road Lights Front End Mounted Switch Assembly Tip: If the vehicle is equipped with both roof and front end mounted off road lights, note the connector location to avoid crossing the switches.

VANITY MIRROR LAMP REPLACEMENT

Removal Procedure

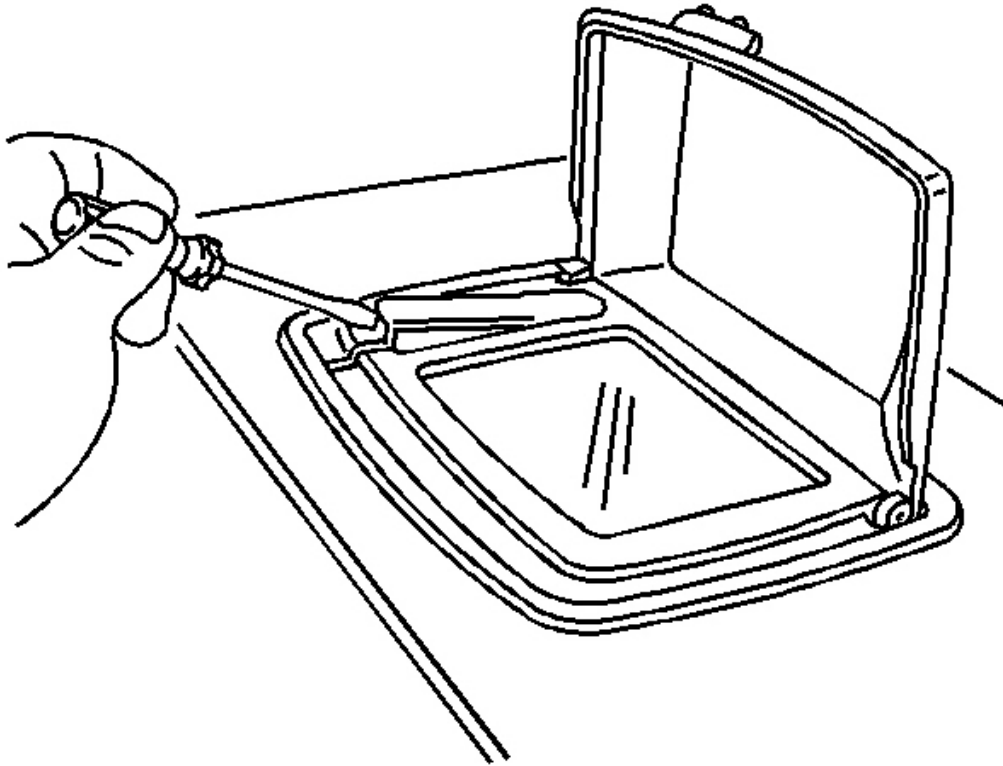


Fig. 97: Identifying Vanity Light Lens Retaining Tab
Courtesy of GENERAL MOTORS CORP.

1. Fold down the sunshade.
2. Open the cover to the vanity mirror in order to reveal the vanity light.
3. Use a flat bladed tool in order to release the retaining tab on the vanity light lens.
4. Remove the vanity light lens from the vanity mirror.
5. Remove the bulb from the socket.

Installation Procedure

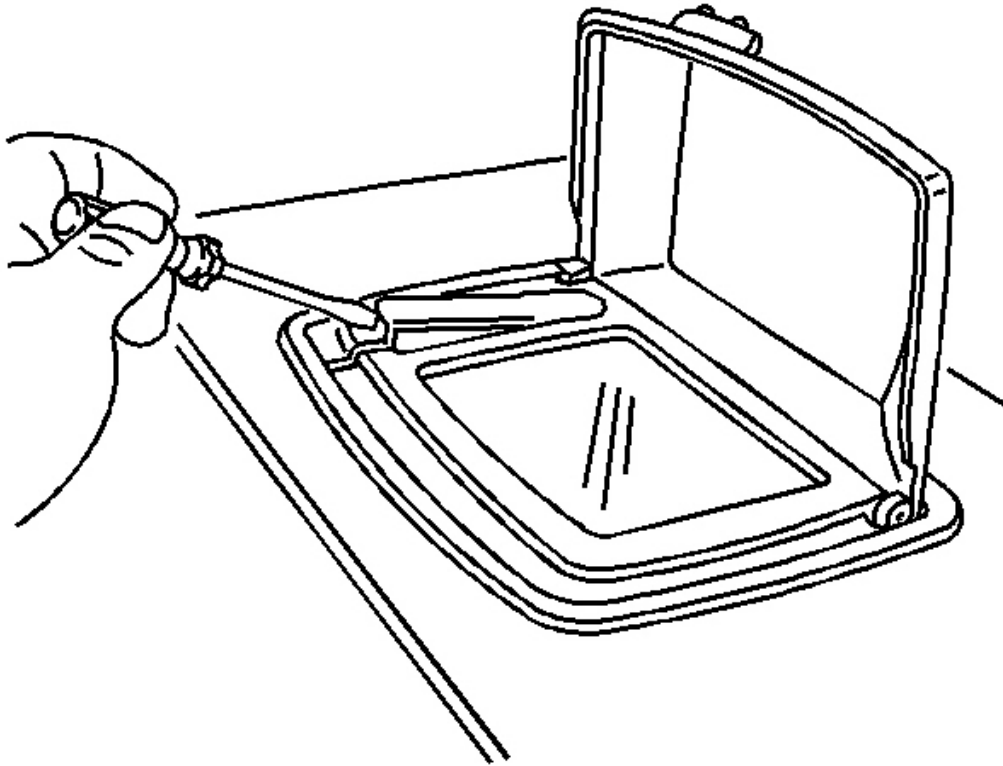


Fig. 98: Identifying Vanity Light Lens Retaining Tab
Courtesy of GENERAL MOTORS CORP.

1. Install the bulb to the socket.
2. Install the vanity light lens to the vanity mirror ensuring the retaining tab is fully seated.
3. Close the cover to the vanity mirror.
4. Return the sunshade to the folded up position.

DOMELAMP REPLACEMENT

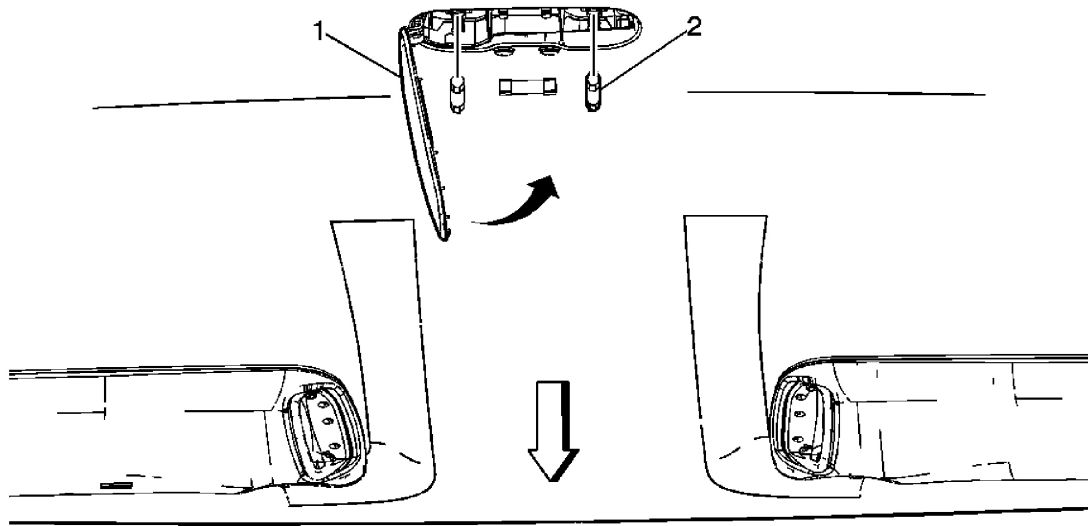


Fig. 99: Dome Lamp Replacement
 Courtesy of GENERAL MOTORS CORP.

Dome Lamp Replacement

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
1	Lens, Dome Lamp Assembly Tip: Pry open the lens with a flat-bladed tool.
2	Bulb, Dome Lamp

HEADLAMP REPLACEMENT

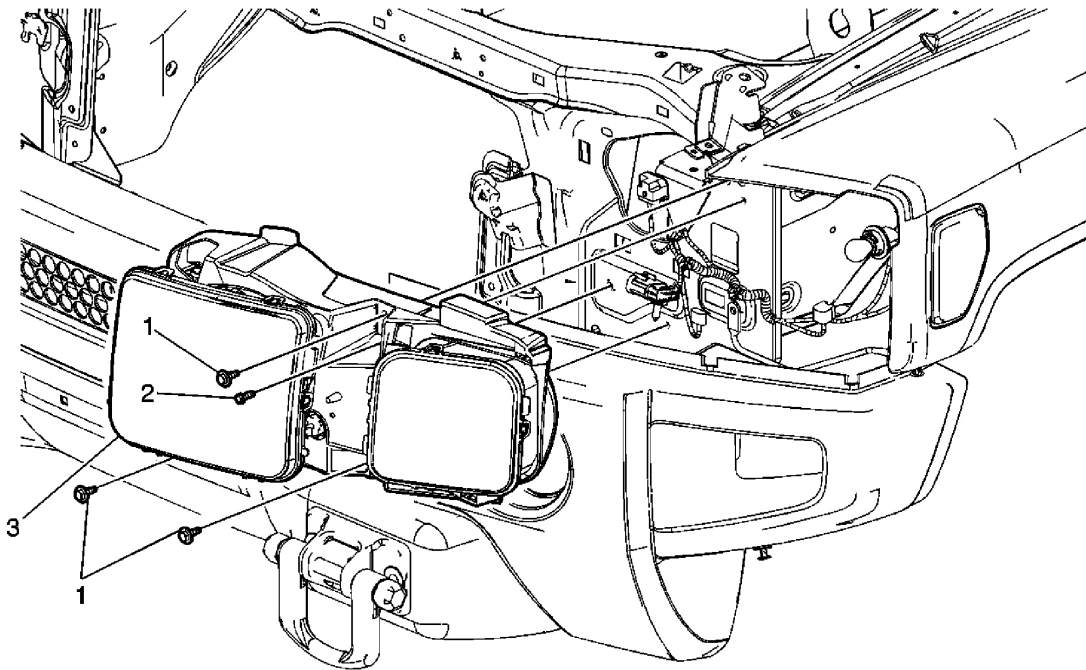


Fig. 100: View Of Headlamp & Components
 Courtesy of GENERAL MOTORS CORP.

Headlamp Replacement

Callout	Component Name
Preliminary Procedures	
<ol style="list-style-type: none"> 1. Remove the front grille. Refer to Grille Replacement . 2. Remove the bolt securing the pencil brace bracket to the rear edge of the headlamp assembly. 3. Gently move the fender pencil brace away from the headlamp composite which is being serviced. 	
1	Headlamp Assembly Bolt (Qty: 3) NOTE: Refer to Fastener Notice . Procedure <ol style="list-style-type: none"> 1. Support the headlamp assembly when removing the bolts. 2. Pull the lamp assembly slightly forward.

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	<ol style="list-style-type: none">3. Disconnect the electrical connector from the forward lamp harness connector.4. Disconnect the jumper harness connector from the fender flare turn signal lamp. <p>Tighten: 10 N.m (89 lb in)</p>
2	<p>Headlamp Support Bracket Bolt</p> <p>Procedure</p> <ol style="list-style-type: none">1. Rotate the bracket upward to allow access to remove headlamp assembly.2. Rotate the outer edge of the headlamp outward in order to remove the lamp assembly from the grille assembly support. <p>Tighten: 5 N.m (44 lb in)</p>
3	<p>Headlamp Assembly</p> <p>Procedure</p> <ol style="list-style-type: none">1. Remove the bulbs from the headlamp assembly and transfer.2. Pull the headlamp assembly forward to remove.3. Aim the headlamp assembly after service. Refer to <u>Headlamp Aiming</u>.

HEADLAMP BULB REPLACEMENT

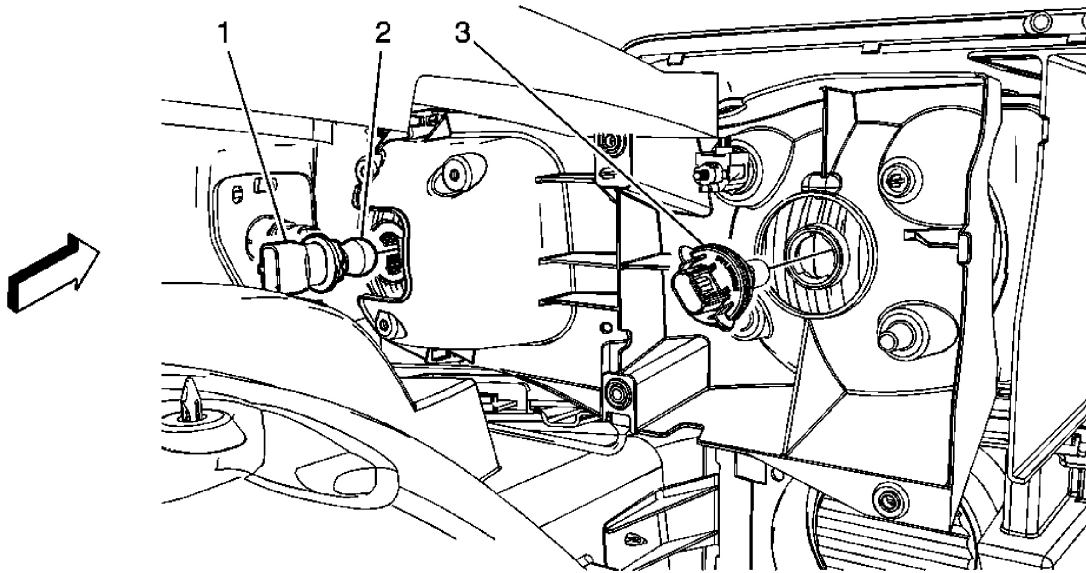


Fig. 101: Headlamp Bulb Replacement
 Courtesy of GENERAL MOTORS CORP.

Headlamp Bulb Replacement

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedure	
<ol style="list-style-type: none"> 1. Open the hood and secure the prop rod. 2. Disconnect the electrical connector to the headlamp bulb socket. 3. Turn the bulb socket counterclockwise to remove. 	
1	Daytime Running Lamp Bulb/Park Turn Signal Socket
2	Daytime Running Bulb/Park Turn Signal Bulb
3	Headlamp Bulb (Lo/Hi) (H13) Tip: Pinch terminal and pull to remove bulb.

HEADLAMP AIMING

The vehicle has a visual optical headlamp aiming system. The aim has been preset at the factory and should need no further adjustment.

However, if the vehicle is damaged in an accident, the headlamp aim may be affected and adjustment may be necessary.

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If oncoming vehicles flash their high beams at you, this may also mean the vertical aim needs to be adjusted.

The vehicle should be properly prepared as follows:

- The vehicle should be placed so the headlamps are 25 ft. (7.6 m) from a light colored wall or other flat surface.
- The vehicle must have all four tires on a level surface which is level all the way to the wall or other flat surface.
- The vehicle should be placed so it is perpendicular to the wall or other flat surface.
- The vehicle should not have any snow, ice or mud on it.
- The vehicle should be fully assembled and all other work stopped while headlamp aiming is being performed.
- The vehicle should be normally loaded with a full tank of fuel and one person or 160 lbs (75 kg) sitting on the driver's seat.
- Tires should be properly inflated.
- The spare tire is in its original location in the vehicle.

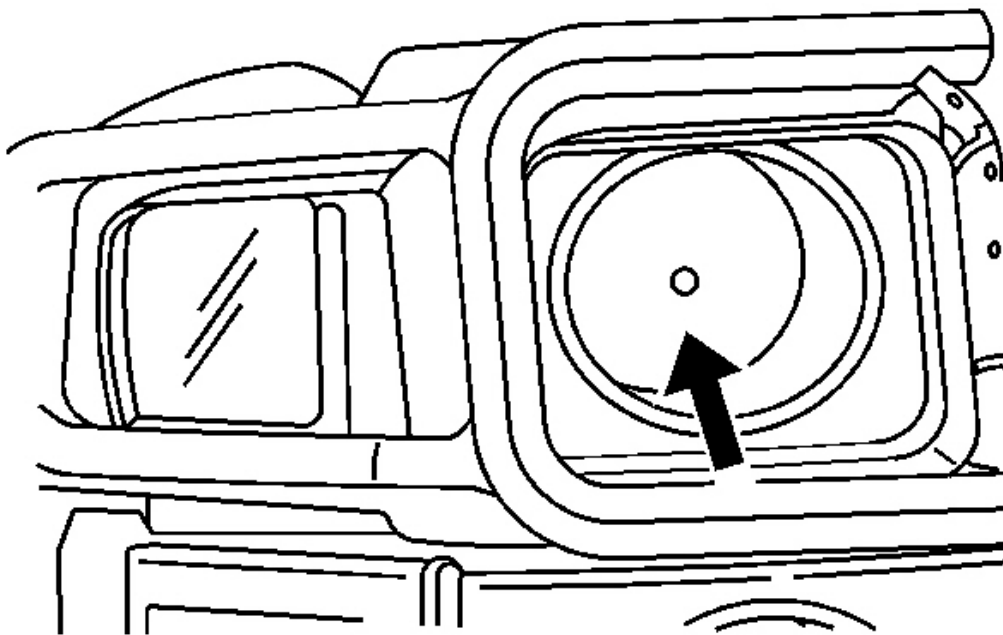


Fig. 102: Identifying Headlamp Aiming Dot
Courtesy of GENERAL MOTORS CORP.

1. To adjust the vertical aim, perform the following procedure:
 1. Find the aim dot on the lens of the headlamp.
 2. Measure the distance from the ground to the aim dot on the headlamp. Record the distance.
 3. At the wall or other flat surface, measure from the ground upward the recorded distance from Step 2 and mark it.
 4. Draw or tape a horizontal line the width of the vehicle at the wall or other flat surface where it was marked in Step 4.

NOTE: Do not cover a headlamp to improve beam cut-off when aiming. Covering a headlamp may cause excessive heat build-up which may cause damage to the headlamp.

2. Turn on the headlamps and place a piece of cardboard or equivalent in front of the headlamp not being aimed. This should allow only the beam of light from the headlamp being aimed to be seen on the flat surface.

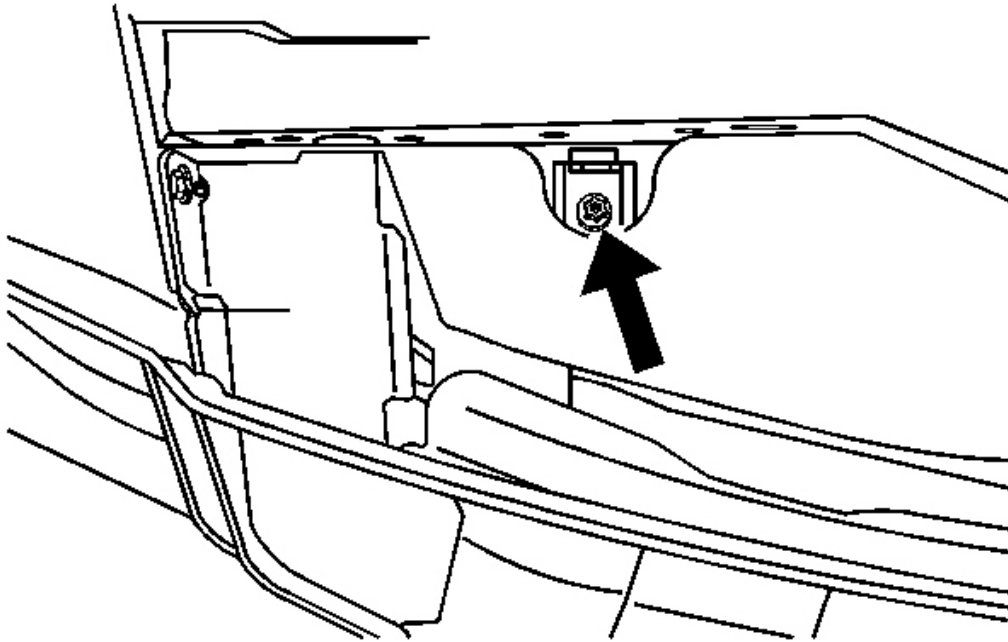


Fig. 103: Locating Vertical Headlamp Aiming Screws
Courtesy of GENERAL MOTORS CORP.

3. Locate the vertical headlamp aiming screws, which are under the hood near each headlamp assembly.

The adjustment screw can be turned with an E8 Torx® socket or T15 Torx® screwdriver.

4. Turn the vertical aiming screw until the headlamp beam is aimed to the horizontal tape line. If you turn it clockwise, it will raise the beam and if you turn it counterclockwise, it will lower the beam.
5. Repeat steps 6 and 7 for the opposite headlamp.

FRONT FOG LAMP REPLACEMENT

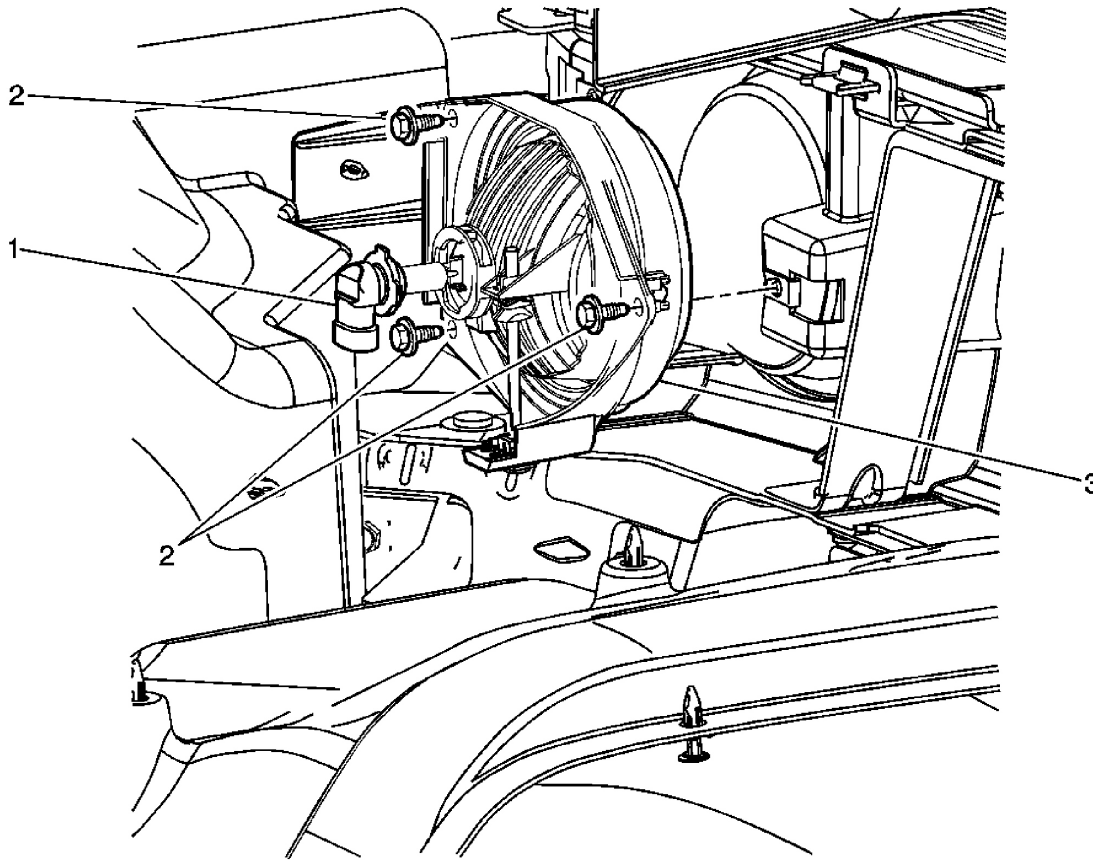


Fig. 104: Fog Lamp Replacement - Front
 Courtesy of GENERAL MOTORS CORP.

Front Fog Lamp Replacement

Callout	Component Name
Preliminary Procedures	
1. Remove either the LF or RF wheelhouse liner. 2. Remove the fog lamp bulb by twisting counterclockwise. 3. Disconnect the electrical connector, if replacing the fog lamp bulb.	
1	CAUTION: Refer to <u>Halogen Bulb Caution</u> . Bulb, Front Fog Lamp
	Bolts, Front Fog Lamp Retainer (Qty: 3) NOTE:

2	Refer to Fastener Notice .
	Tighten: Tighten to 10 N.m (89 lb in)
3	Lamp Assembly, Front Fog Tip: Aim the fog lamps after the replacement of a lamp assembly. Refer to Fog Lamp Aiming .

FRONT FOG LAMP BULB REPLACEMENT

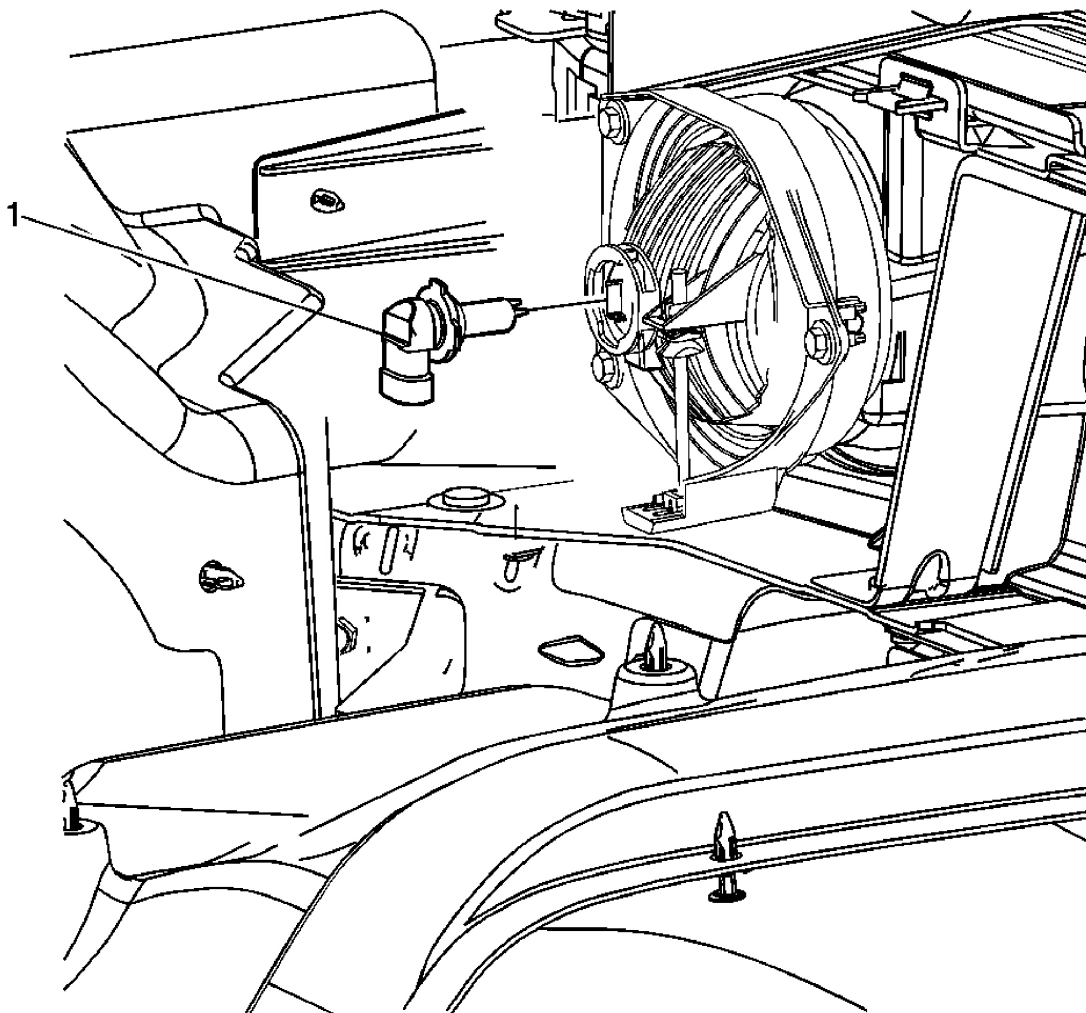


Fig. 105: Fog Lamp Bulb Replacement - Front
 Courtesy of GENERAL MOTORS CORP.

Front Fog Lamp Bulb Replacement

Callout	Component Name
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Fastener Tightening Specifications: Refer to **Fastener Tightening Specifications**.

Preliminary Procedures

1. Remove the engine shield. Refer **Engine Shield Replacement** .
2. Remove the fog lamp bulb by twisting counterclockwise.
3. Disconnect the electrical connector.

1	Front Fog Lamp Bulb (Qty: 1)
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REAR FOG LAMP REPLACEMENT (WITH BRM AND RHD)

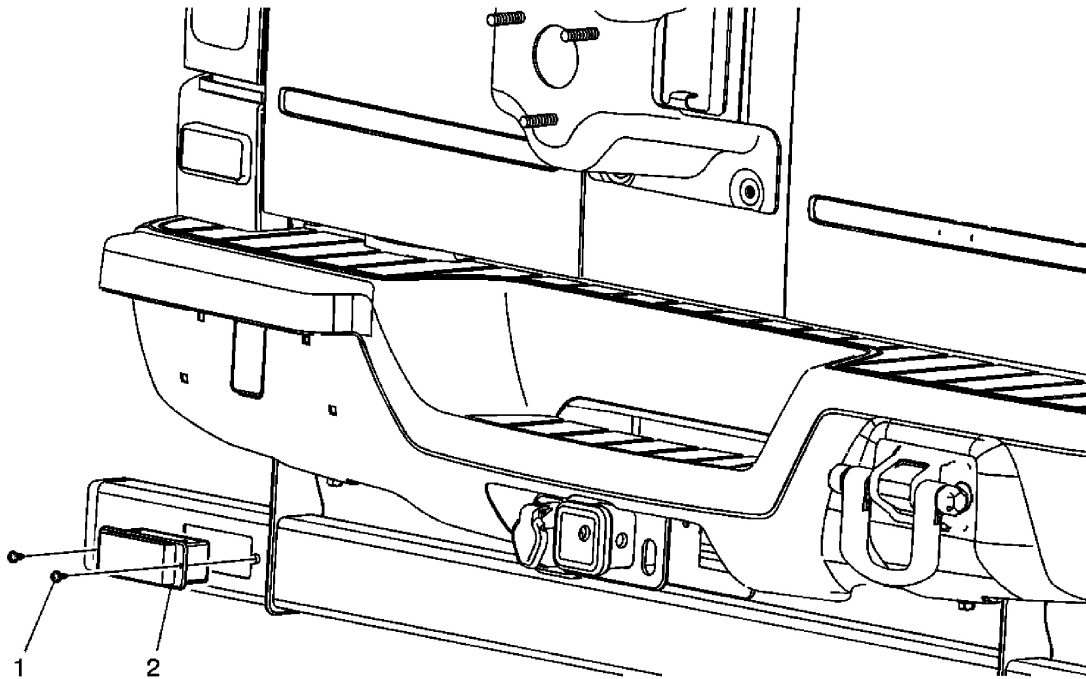


Fig. 106: Identifying Rear Fog Lamp & Screws
 Courtesy of GENERAL MOTORS CORP.

Rear Fog Lamp Replacement (with BRM and RHD)

Callout	Component Name
1	Rear Fog Lamp Screws (Qty: 2) NOTE: Refer to <u>Fastener Notice</u> .

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	Tighten: Tighten the screws to 2.0 N.m (18 lb in)
2	Rear Fog Lamp Assembly Tip: Pull the lamp assembly from the rear bumper impact bar extension assembly and disconnect the electrical harness connector from the lamp assembly.

FOG LAMP AIMING

Preparation Procedure

IMPORTANT: Horizontal aim is not adjustable on this vehicle. Vertical aim is done by an adjusting nut located on the rear of the fog lamp. Prior to aiming the fog lamps, perform the following steps:

1. Completely assemble all of the components on the vehicle.
2. Place the vehicle on a level surface.
3. Stop all unnecessary operations or work that could affect the ride height of the vehicle.
4. Close the doors and verify that the luggage compartment is empty.
5. Stabilize the suspension by rocking the vehicle sideways.
6. Ensure that the fuel level is full.
7. Ensure that the tires are inflated to the proper pressure.
8. Ensure that the driver or a similar weight, approximately 75 kg (165 lb), is in the vehicle driver seat.

Aiming Procedure

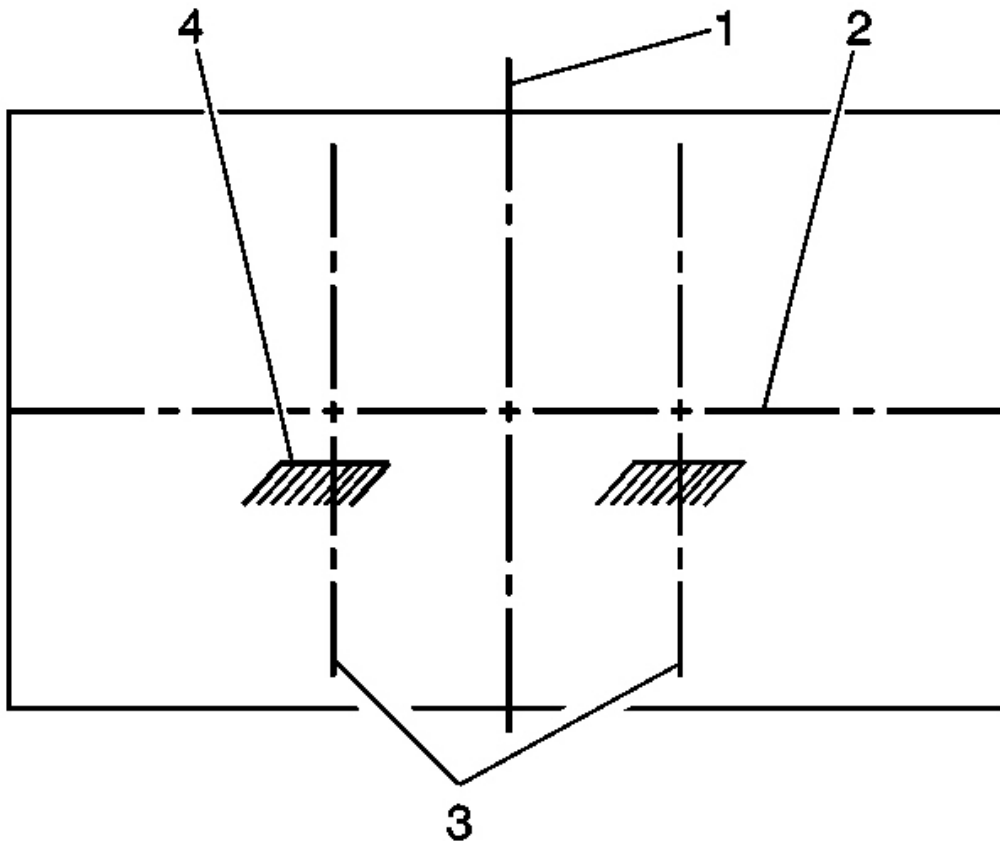


Fig. 107: Locating Alignment Points On Target Screen
Courtesy of GENERAL MOTORS CORP.

1. Park the vehicle 7.6 m (25 ft) away from the target screen.
2. Measure from the center of the fog lamp to the ground line. Using this measurement, mark the horizontal centerline (2) of the fog lamp on the target screen directly in front of the vehicle.
3. The adjustment hole is located in the front fascia just above the fog lamp assembly.
4. Turn ON the fog lamps. The top of the fog lamp beam image (4) on the target screen should be 102 mm (4 in) below the center of the fog lamp lens height.
5. Adjust the fog lamp as required using the adjusting screw at the bottom side of the fog lamp assembly.
6. Turn OFF the fog lamps.

OFF ROAD LAMP PACKAGE INSTALLATION

1. Follow the Wiring Systems sub-section for splicing wires using splice sleeves. Refer to **Splicing Copper Wire Using Splice Sleeves** .
2. Remove the ground terminal of the battery. Refer to **Battery Negative Cable Disconnection and Connection** .
3. Ensure the vehicle is in the park (P) position.
4. Apply park brake.

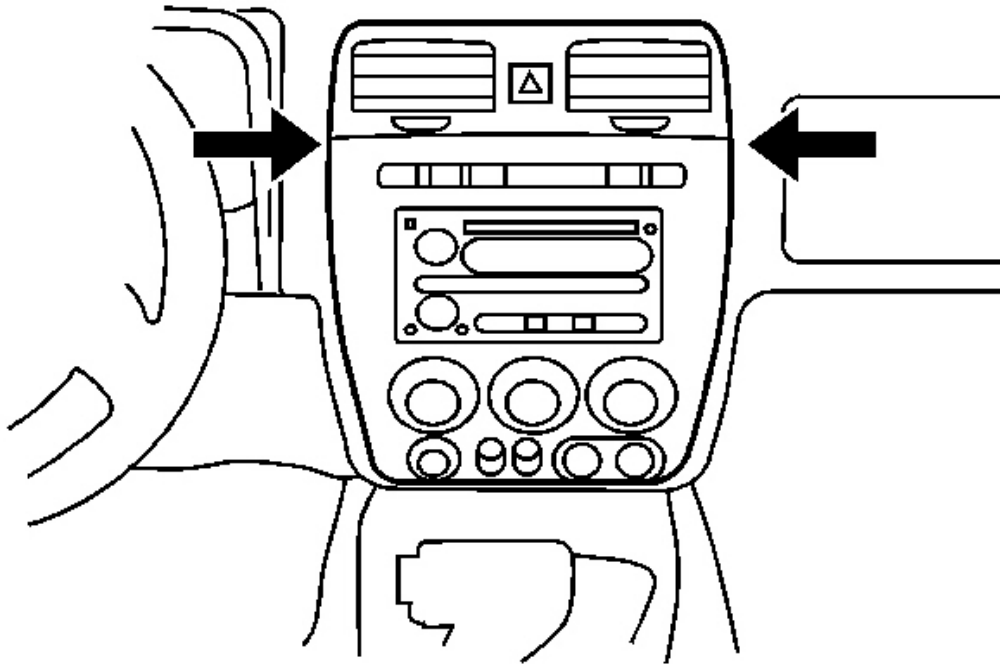


Fig. 108: Pressing Inward At Sides Of Radio Trimplate
Courtesy of GENERAL MOTORS CORP.

5. Using a flat-bladed tool, press inward at the sides of the radio trimplate in order to release the clips.
6. Press in on both sides if the trimplate just below the HVAC vents.
7. Gently remove the trimplate.

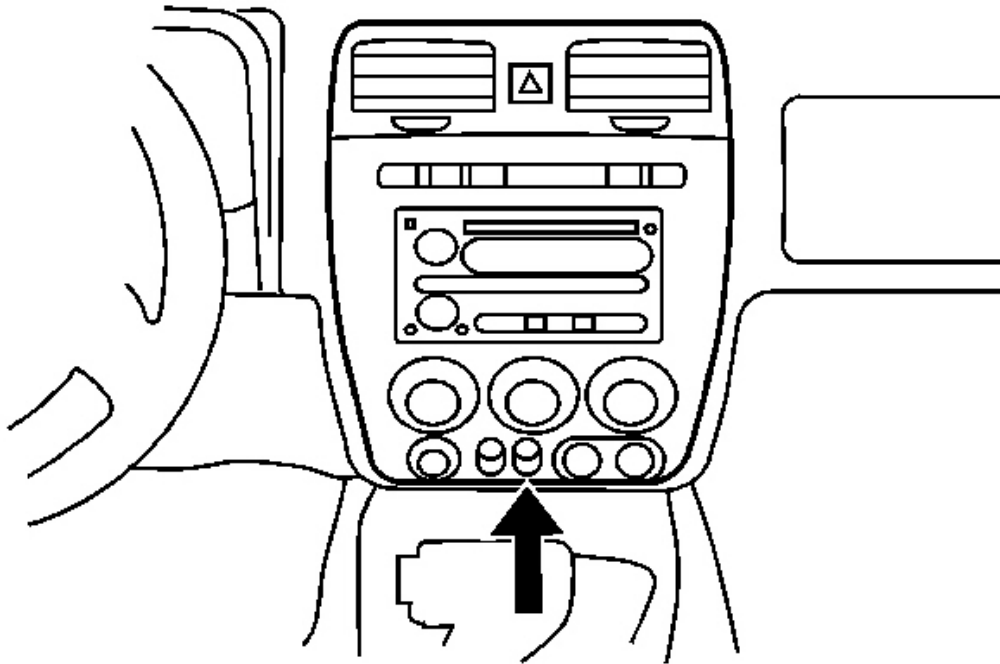


Fig. 109: Locating Switch Plug
Courtesy of GENERAL MOTORS CORP.

8. Remove the switch plug next to the auxiliary power outlet by flexing open the retention walls on the back of the trimplate and pushing the plug from the front of the trimplate at the same time.
9. Snap the switch into the open position from the rear of the trimplate.

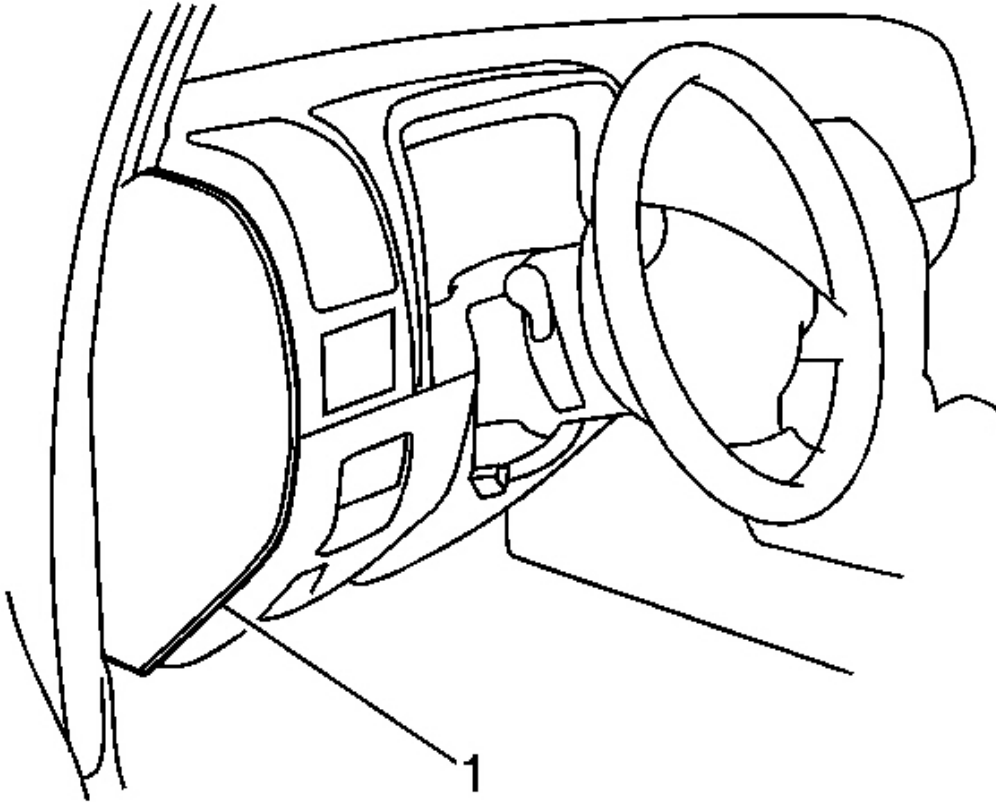


Fig. 110: View End Cover Trim Panel
Courtesy of GENERAL MOTORS CORP.

10. Remove the instrument panel (I/P) end cover trim panel (1) by gently prying the outer edge with a flat-bladed tool in order to release the clips.
11. Remove the I/P lower trim plate by releasing the clips and pulling from the lower right side first.
12. Remove the hood release handle and cable by removing the screws and pressing forward in the vehicle to disengage the tabs.
13. Route the switch connector harness up from the driver's side floor behind the I/P center console.

IMPORTANT: Ensure the taped portion of the harness extends beyond the I/P center console brackets.

14. Connect the switch connector to the switch.
15. Reinstall the I/P trimplate by positioning the trimplate and pressing in at the retention clip locations.

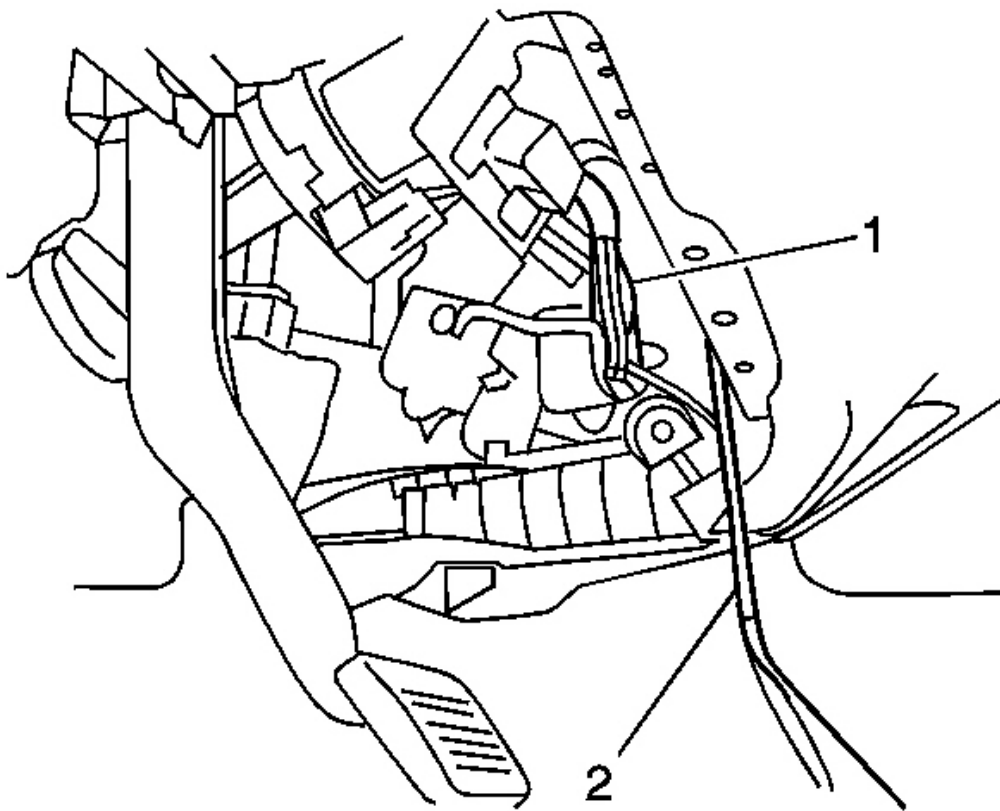


Fig. 111: Locating Blunt Cut Wire & Harness
Courtesy of GENERAL MOTORS CORP.

16. Locate the black blunt cut wire (1) on the right side of the driver footwell above the footwell lamp.
17. Tape this wire up onto the harness (2).
18. Splice this wire to the black wire in Pin B of the switch connector and use the splice sleeve to connect the wire.

IMPORTANT: If the vehicle is equipped with trailer electric brake or front

off road lights, this wire will be used already.

19. Use the splice sleeve to connect the appropriate ground wires together.

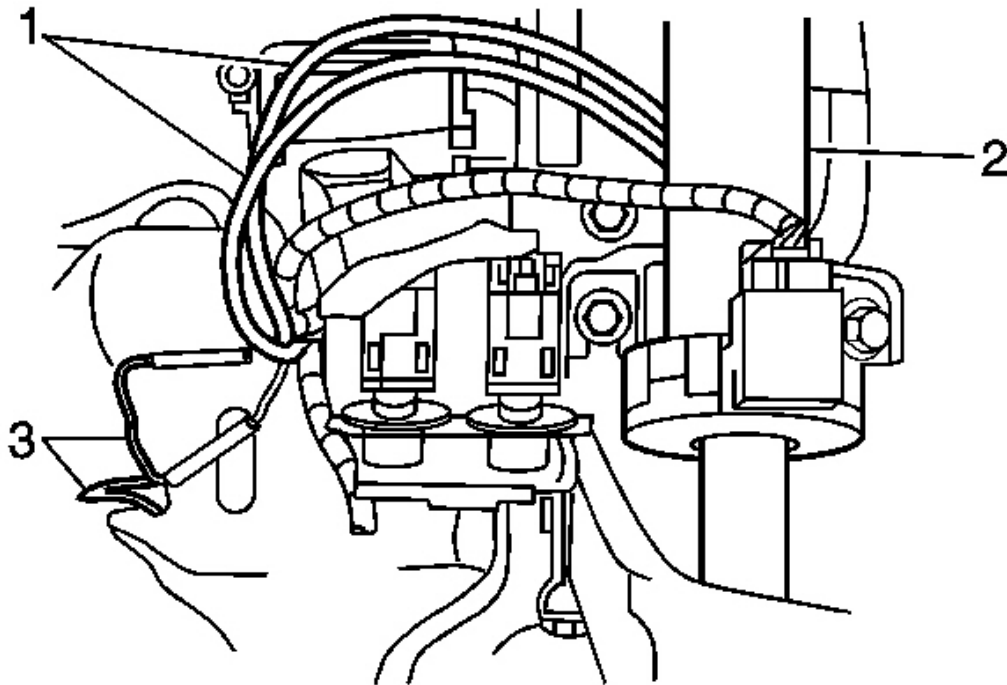


Fig. 112: Routing Wires
Courtesy of GENERAL MOTORS CORP.

20. Route the orange and white wires from the switch (1) over the steering column support (2).
21. Locate the blunt cut wires (3) under the I/P on the left side of the driver footwell above the park brake.
22. These wires may be taped back onto the harness branch, cut the tape in order to free the wires.
23. Splice the orange blunt cut wire to the orange wire in pin A of the switch connector using the splice procedure and the splice sleeves provided.
24. Splice the white-striped, black blunt cut wire to the white wire in pin C of the switch connector using the splice procedure and the splice sleeves provided.

25. Using tie straps, tie strap the wires to the other wire bundles out of the driver footwell area.
26. Install the I/P lower trim plate by positioning the trim plate and pressing inward at the clip locations.
27. Install the hood release cable and handle assembly by engaging the handle tab and installing the screws.
28. Install the I/P end cover trim panel by positioning the panel and pressing inward at the clip locations.

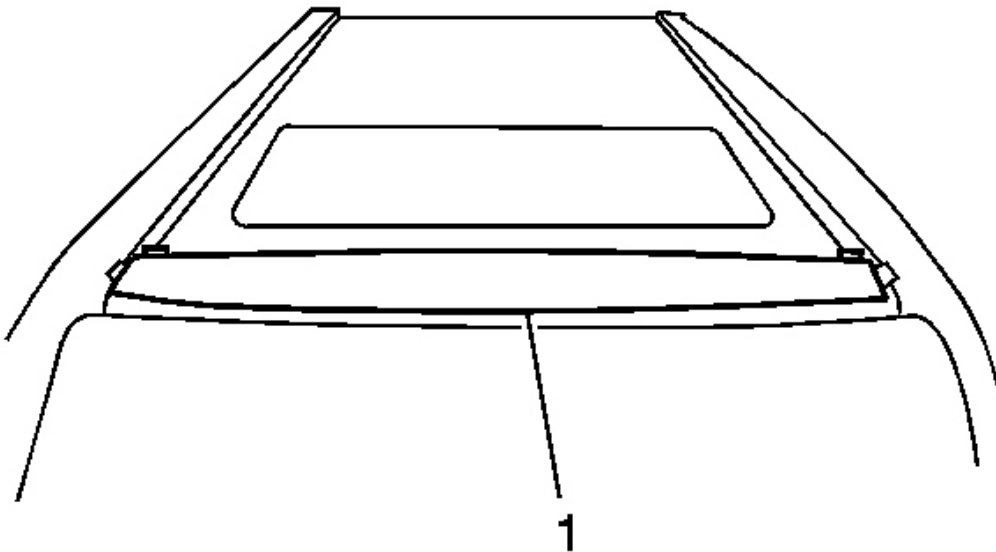


Fig. 113: View Of Centering Template
Courtesy of GENERAL MOTORS CORP.

29. Center the template provided (1) on the roof between the two A-pillars. Position the template so that the front edge rests against the rear edge of the windshield reveal molding and tape in place.
30. Mark the 6 hole locations with a trip punch or center punch.

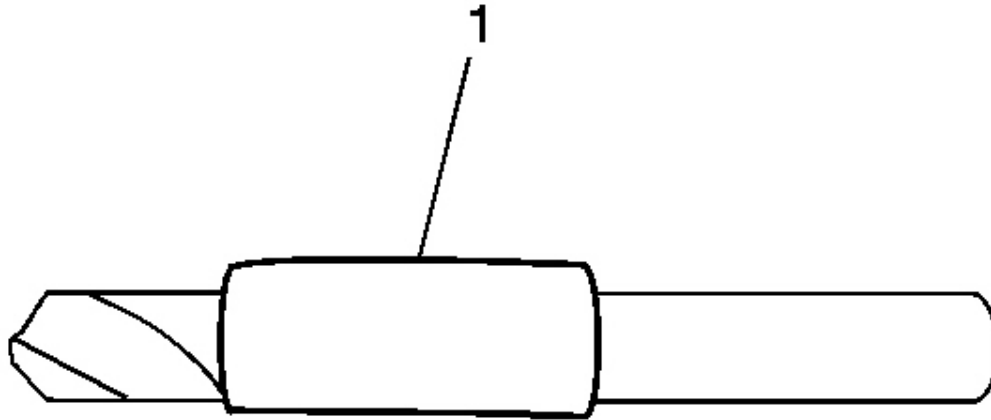


Fig. 114: View Of Tape Wrapped Drill Bit
Courtesy of GENERAL MOTORS CORP.

31. Before drilling, add several wraps of tape (1) around end of drill bit to prevent the drill bit from penetrating through the roof into the headliner.
32. Drill pilot holes with 2 mm (3/32 in) drill bit.
33. Expand the holes with 6 mm (1/4 in) drill bit.
34. Drill 9 mm holes in the 6 hole locations using the bit supplied within the kit.
35. Clear all the metal shavings from around the holes with a magnet or vacuum.
36. Apply GM Superlube® with PTFE, GM P/N 12371287, to the lower half of the rivnut and between the washer and hex body of rivnut tool prior to inserting the rivnut into the hole.

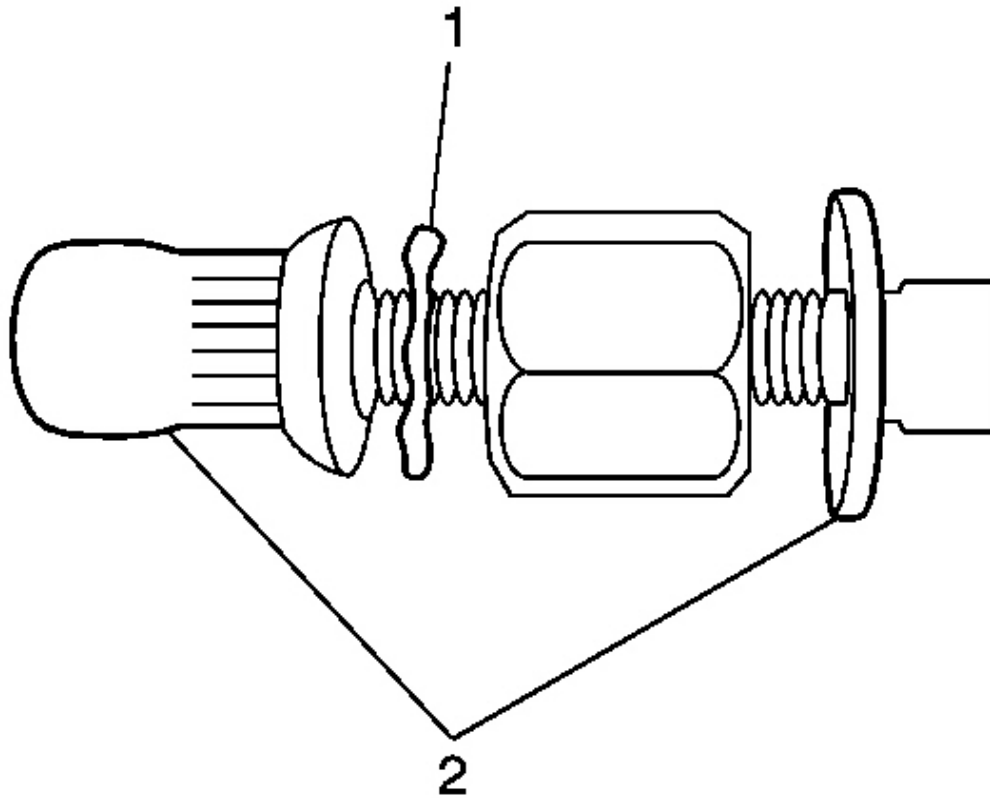


Fig. 115: Identifying Rivnut Tool
Courtesy of GENERAL MOTORS CORP.

37. Ensure that the Star washer (1) is positioned on top of the rivnut tool (2) (all provided).

NOTE: Refer to Fastener Notice .

IMPORTANT: Do not overtighten the rivnuts.

38. Using a 5/16 inch box wrench in conjunction with a 1/2 inch open end wrench, secure the rivnuts to the roof panel.

Tighten: Tighten the rivnut to 7 N.m (45 lb in).

39. Secure each rivnut to the roof panel.

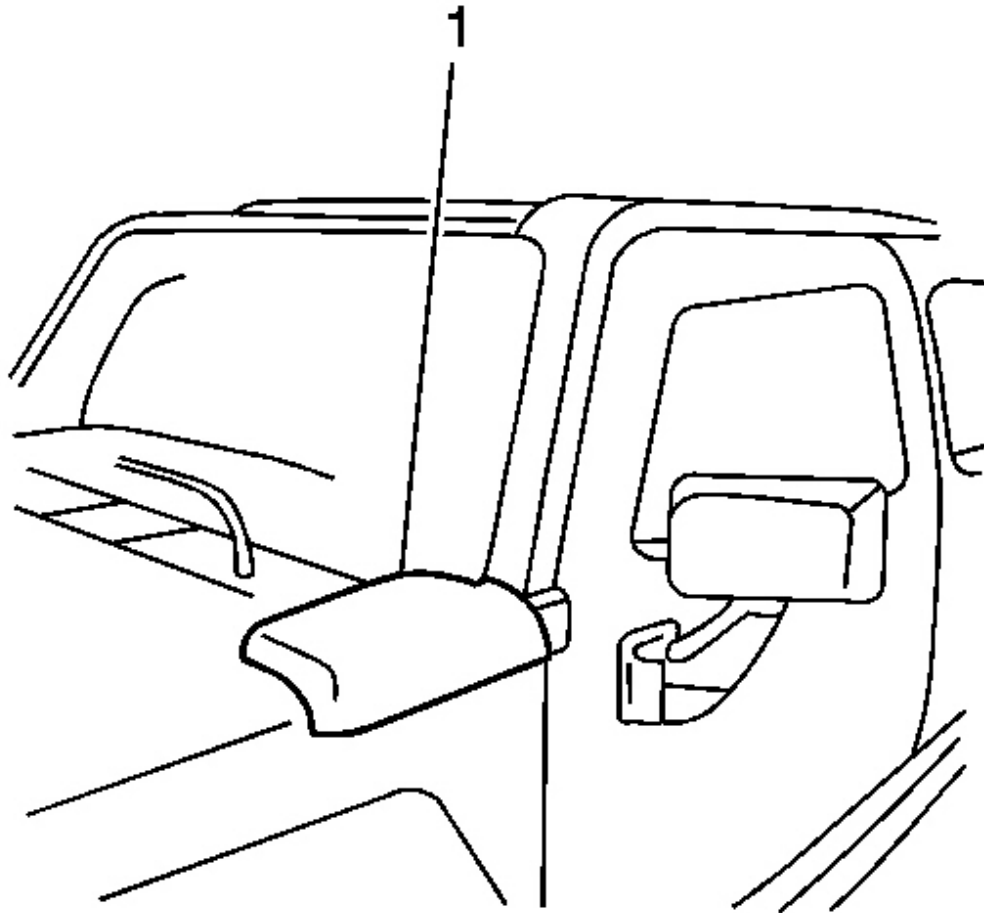


Fig. 116: Identifying Air Inlet Cover
Courtesy of GENERAL MOTORS CORP.

40. Remove the air inlet cover (1) on the driver side by gently pulling upward to release the clips.

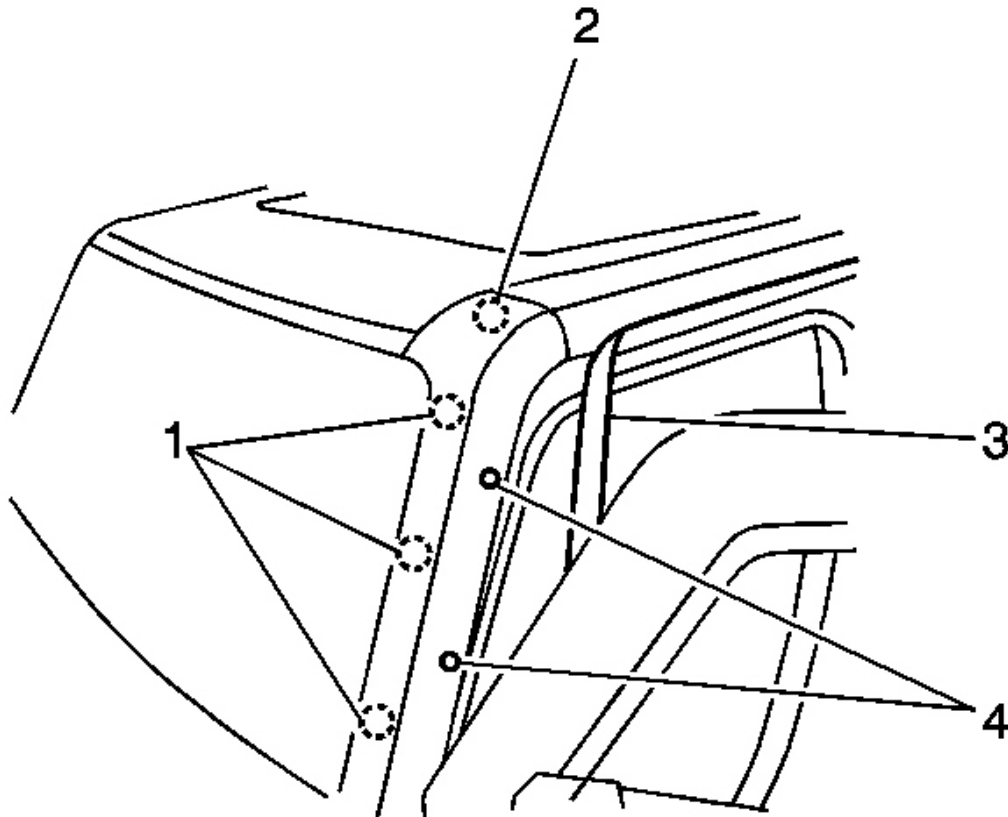


Fig. 117: Removing/Installing A-pillar trim
Courtesy of GENERAL MOTORS CORP.

41. Open the driver door.
42. Remove the exterior trim on both driver and passenger A-pillars by first peeling back the weatherstrip (3) to expose 2 screws (4).
43. Using a phillips head screwdriver, remove the screws.
44. Pull the lower end of the A-pillar trim to unsnap the clips (1).
45. Disengage the A-pillar trim from the front end of the luggage rack/siderail (2) and remove.

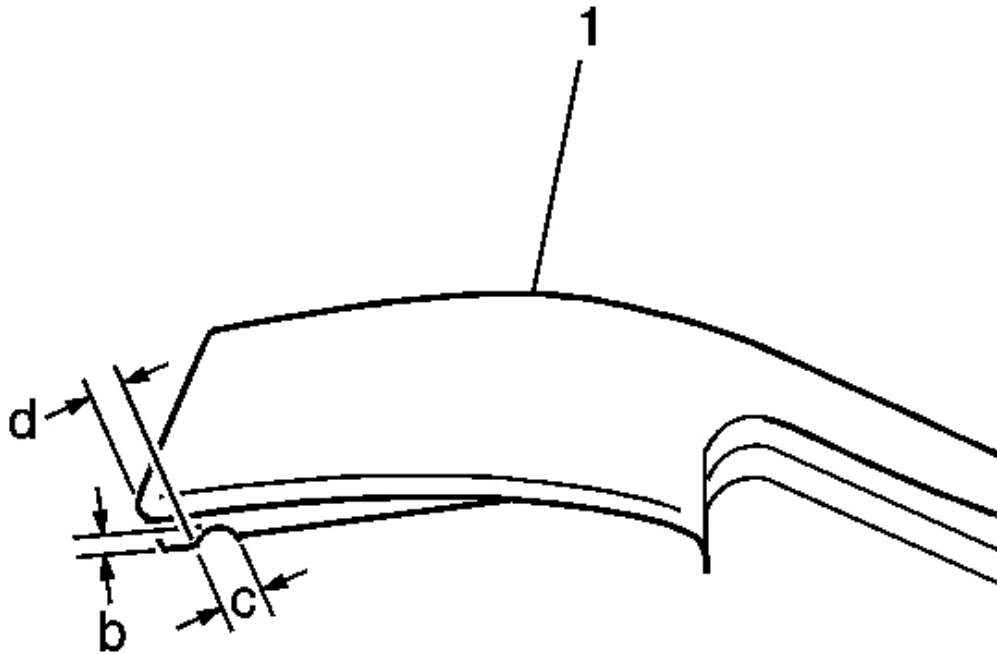


Fig. 118: Clipping Notch In A-Pillar
Courtesy of GENERAL MOTORS CORP.

46. Using diagonal cutters, clip a notch (c) in the driver side A-pillar (1) trim as shown for the wire entry.

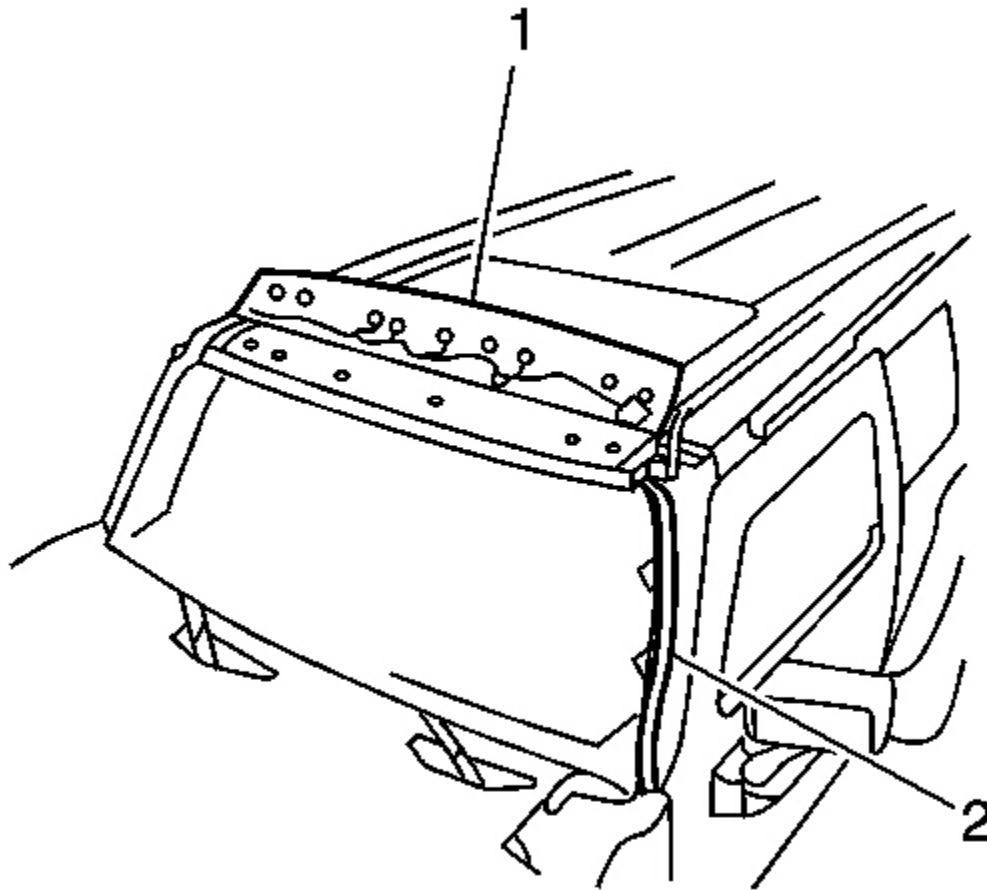


Fig. 119: Locating Lightbar And Electrical Harness Assembly
Courtesy of GENERAL MOTORS CORP.

47. Place the lightbar (1) and electrical harness assembly (2) upside down on the roof.
48. Route the harness down the driver side A-pillar, placing it near the windshield glass interference to A-pillar and spot tape in 3 places.
49. Ensure the harness lies flat and does not interfere with the snap locations for the A-pillar trim.

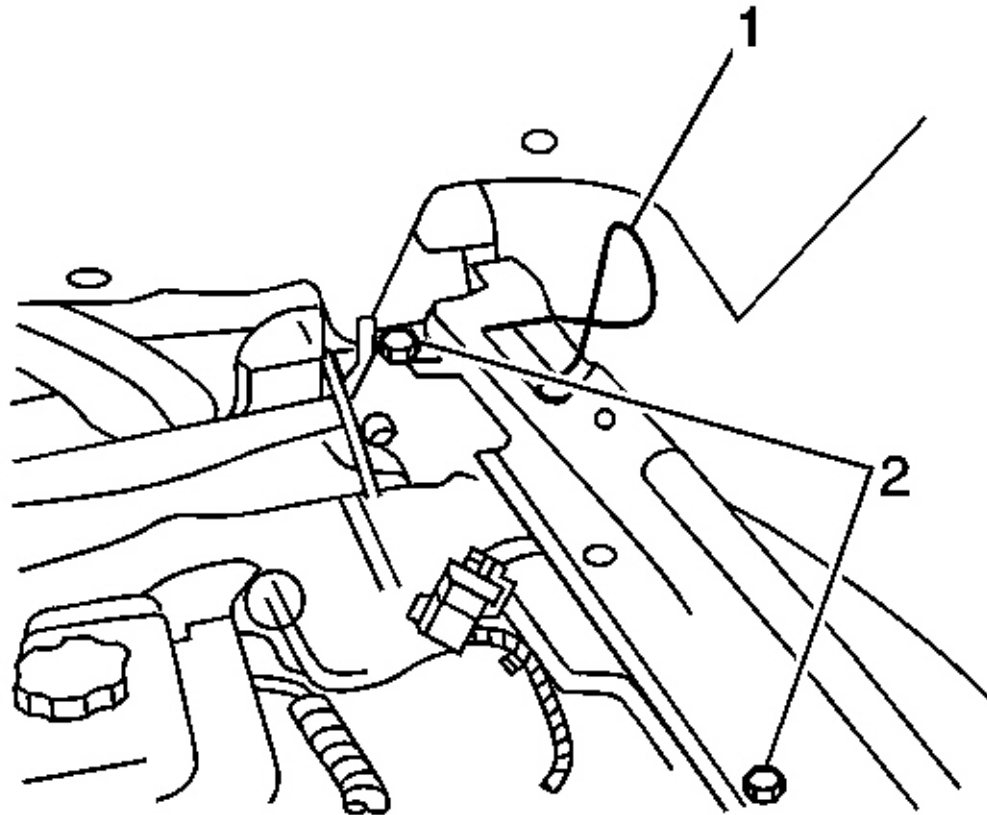


Fig. 120: Loosening 2 Screws At Fender Flange
Courtesy of GENERAL MOTORS CORP.

50. Loosen the 2 screws (2) at the fender flange under the air inlet cover to allow the electrical harness (1) to pass underneath.
51. Move the black foam out from under fender flange.
52. Route the harness under the fender flange.
53. Disconnect the relay, if necessary, to fit the harness through.
54. Reconnect the relay, if necessary.
55. Torque the fender flange attaching screws.

Tighten: Tighten the fender flange screws to 7 N.m (45 lb in).

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56. Reposition the black foam under fender flange.
57. Rotate the lightbar to the correct orientation on the roof.
58. Position the front edge of light bar approximately 3 mm (1/8 in) rearward from the front edge of the windshield reveal molding. Using the 6 fasteners provided and T25® Torx driver, install the lightbar to the roof.

IMPORTANT: Ensure the wiring is not trapped beneath the fasteners.

59. Secure the light bar to the roof.

Maintain a parallel gap to the windshield reveal molding and luggage rack side rails.

Tighten: Tighten the fasteners to 4.5 N.m (30 lb in).

60. Ensure the lightbar is centered between A-pillars and adjust if necessary.

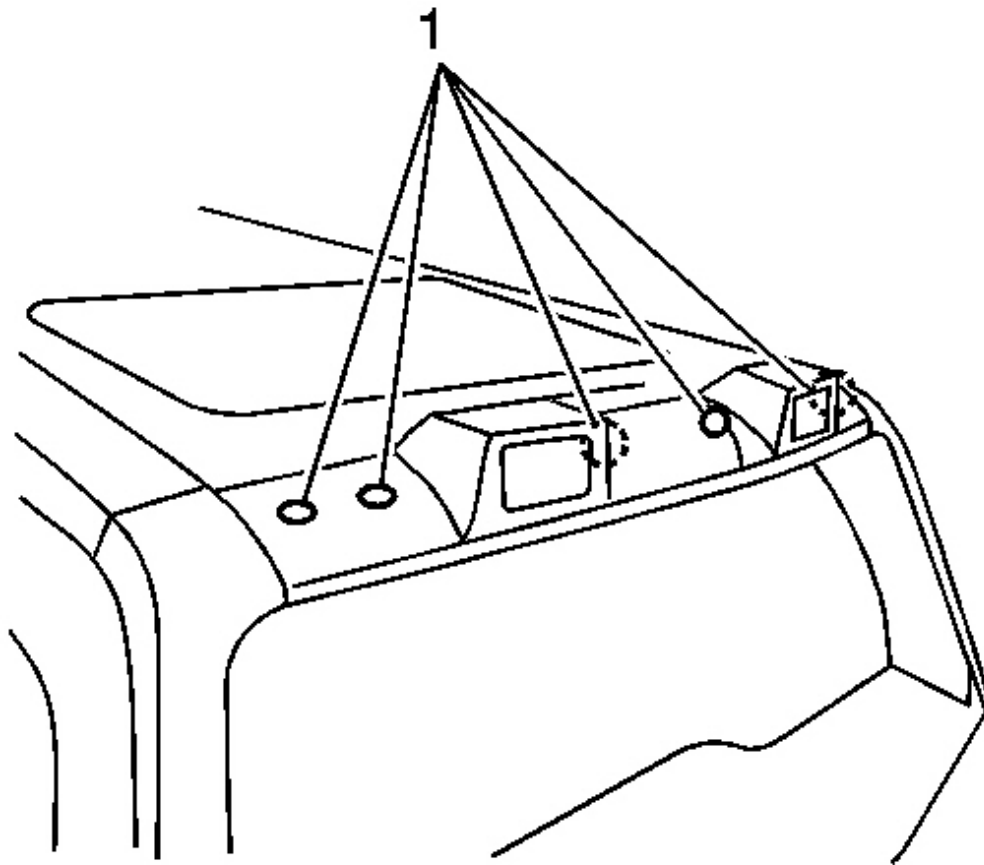


Fig. 121: Identifying Fastener Covers
Courtesy of GENERAL MOTORS CORP.

61. Install the 6 fastener covers (1) by aligning the cover tab to the driver side and gently pressing in place.
62. Install the A-pillar trim by hooking the rear edge and pressing the clips into place.
63. Install the 2 screws behind the weatherstrip.

Tighten: Tighten the screws to 2 N.m (18 lb in).

64. Reposition the weatherstrip.

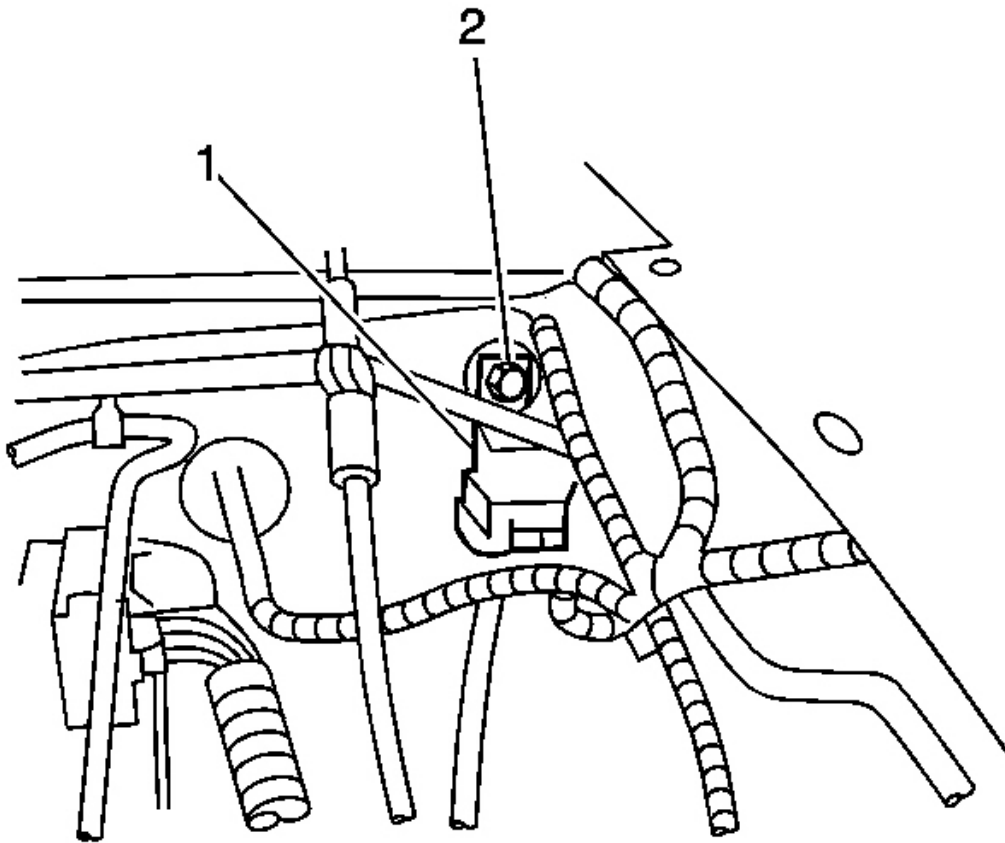


Fig. 122: Identifying Relay Bracket & Bracket Stud
Courtesy of GENERAL MOTORS CORP.

65. In the engine compartment, locate the stud (2) on the driver side front of dash that holds the insulator mat in place.
66. Hang the relay bracket (1) on this stud and secure with a palnut, provided in the kit.

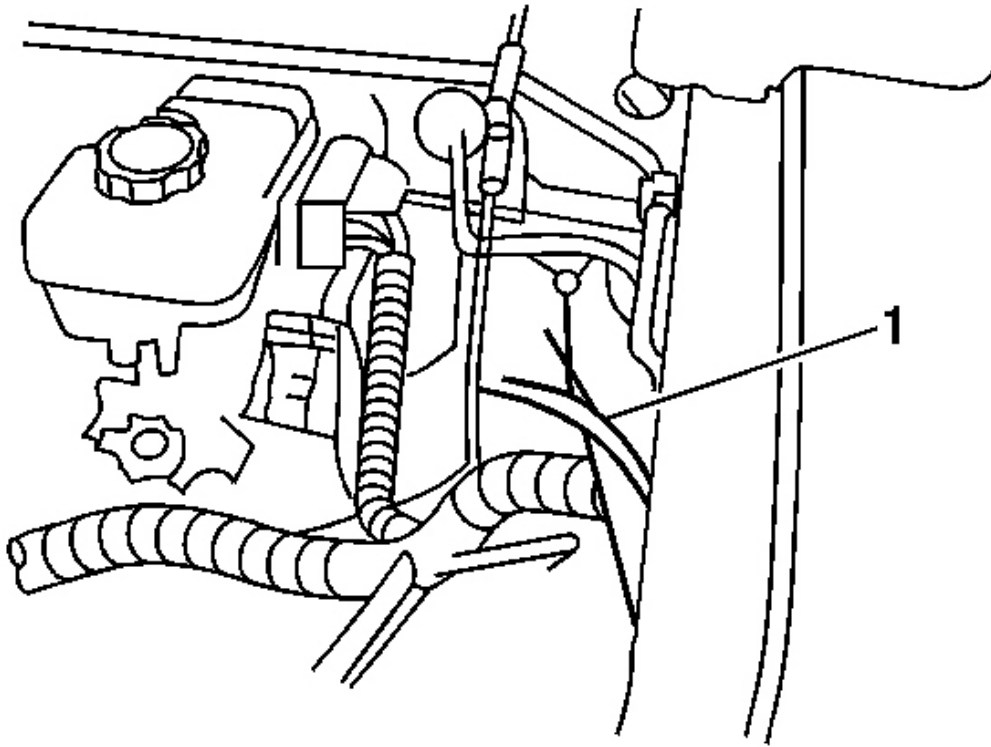


Fig. 123: Locating 6 Blunt Wiring Cuts
Courtesy of GENERAL MOTORS CORP.

67. Locate the 6 blunt wiring cuts (1) in the engine compartment behind the driver side wheelhouse. The engine compartment blunt cuts have seals on them that must be removed prior to using the splice sleeve.
68. Carefully remove some of the seal on the appropriate wire using a wiring stripping tool.
69. Using the splice sleeve provided, splice the white-striped blunt black cut wire to the white wire in the electrical harness.
70. Replace the conduit over the splice and tape the wiring in position.
71. Splice the orange blunt cut to the orange harness wire using the splice sleeve provided.
72. Replace the conduit over the splice and tape into place.
73. Splice the black blunt cut wire from the vehicle to the black blunt cut wire in the harness using the splice sleeve provided.

74. Replace the conduit over the splice and tape into place.

IMPORTANT: There may be more than one blunt cut wire, all of them are ground wires.

75. Check the voltage or resistance to confirm.

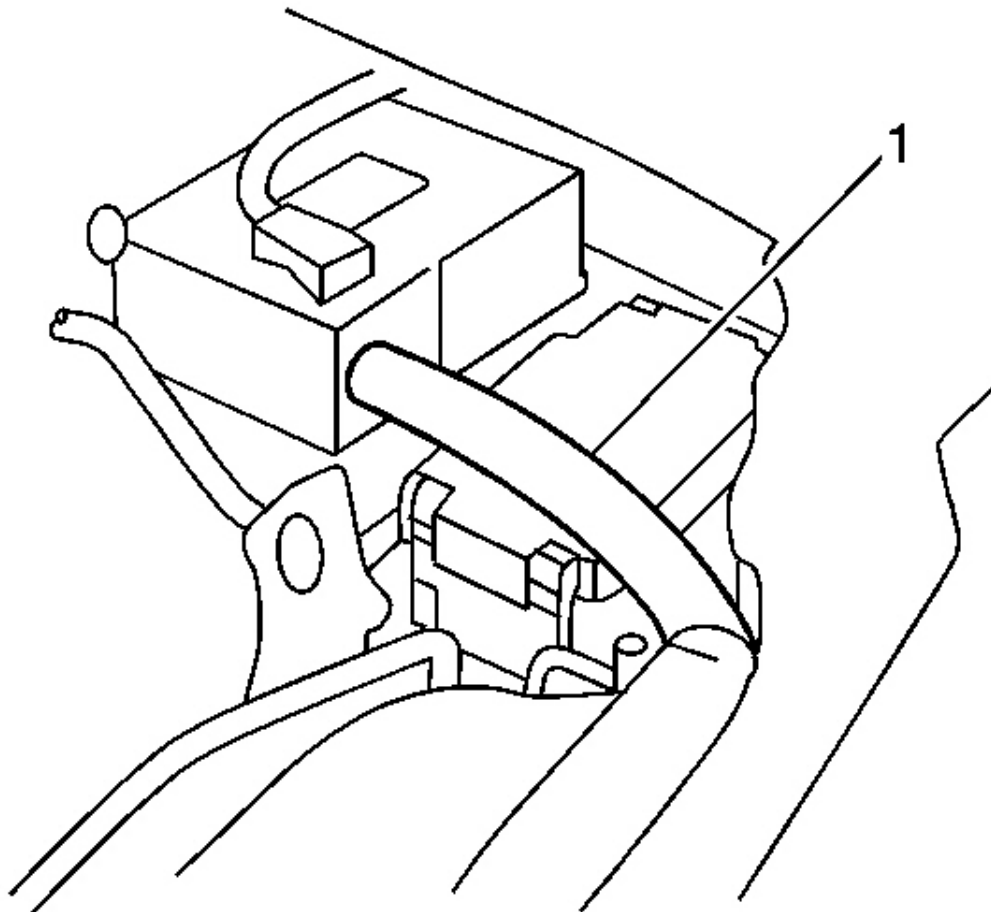


Fig. 124: Locating Battery Vent Tube
Courtesy of GENERAL MOTORS CORP.

76. Remove the battery vent tube (1) in order to access the bussed electrical center (BEC).

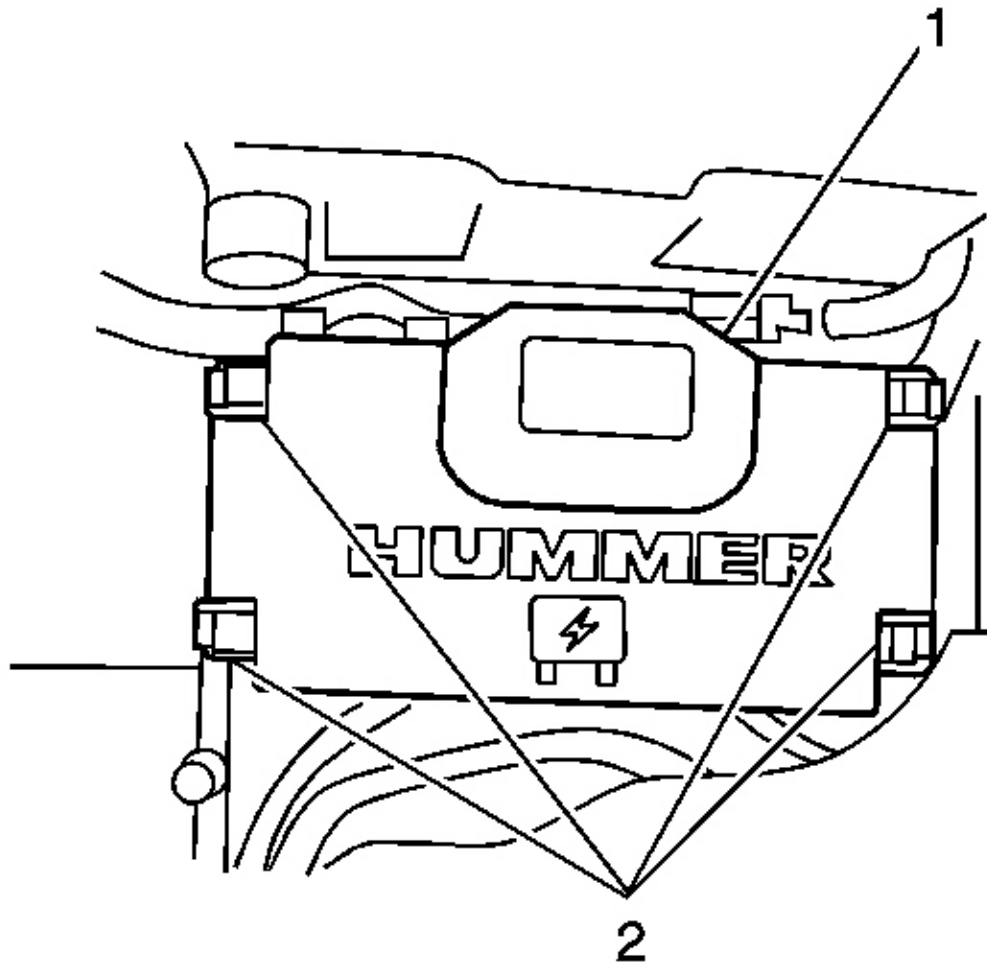


Fig. 125: View Of BEC Cover
Courtesy of GENERAL MOTORS CORP.

77. Release the BEC cover (1) by depressing the locks (2) on both sides of cover simultaneously.

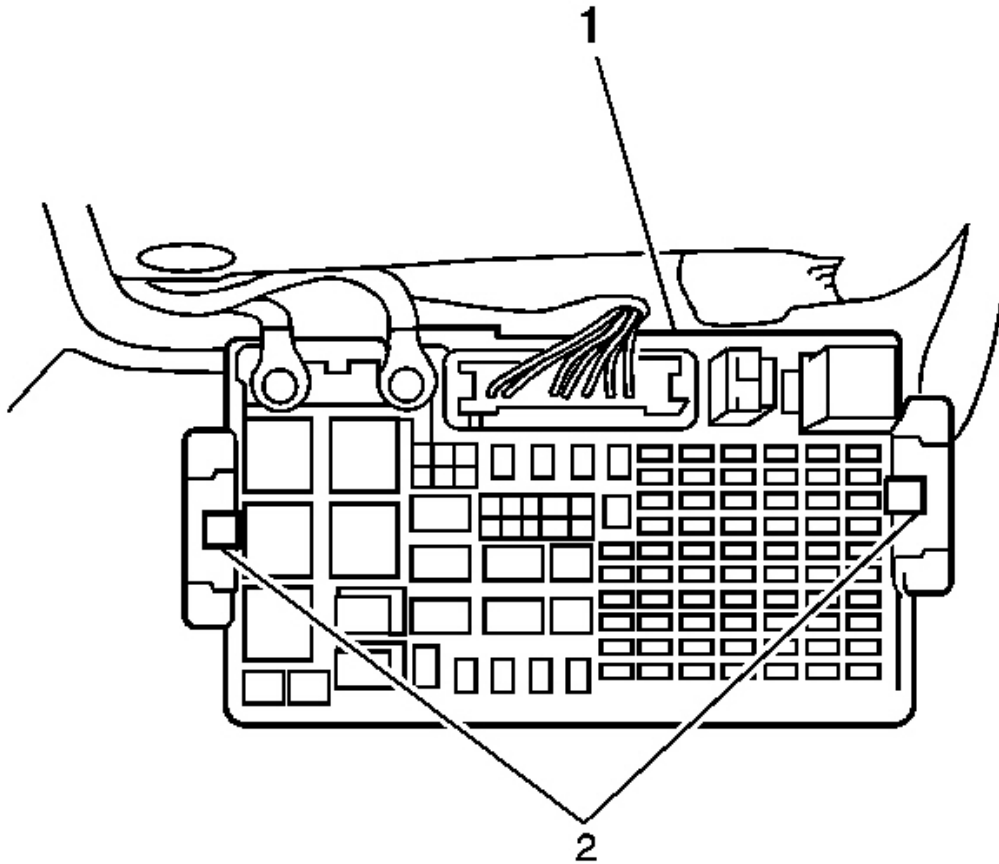


Fig. 126: Identifying BEC Release Tabs
Courtesy of GENERAL MOTORS CORP.

78. Press the release the tabs (2) on the right and left sides.
79. Pull up on the BEC (1) using both hands.

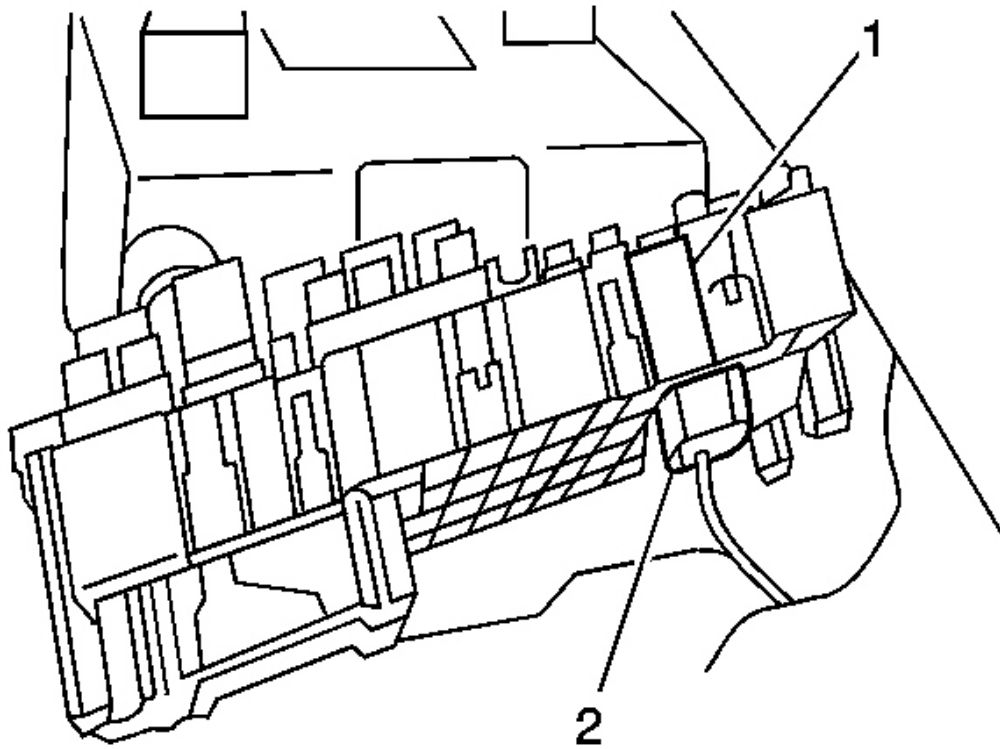


Fig. 127: View Of BEC 8-Way Electrical Connector
Courtesy of GENERAL MOTORS CORP.

80. Locate the red harness wire that has a connector hanging from it.
81. Plug the 8-way electrical connector (2) into the bottom of BEC (1) as shown.
82. Reassemble the BEC by ensuring the 2 47-way connectors are in the upright and locked position. Ensure the locking fingers are engaged under the mating lock lug.
83. Press downward and listen for an audible snap.

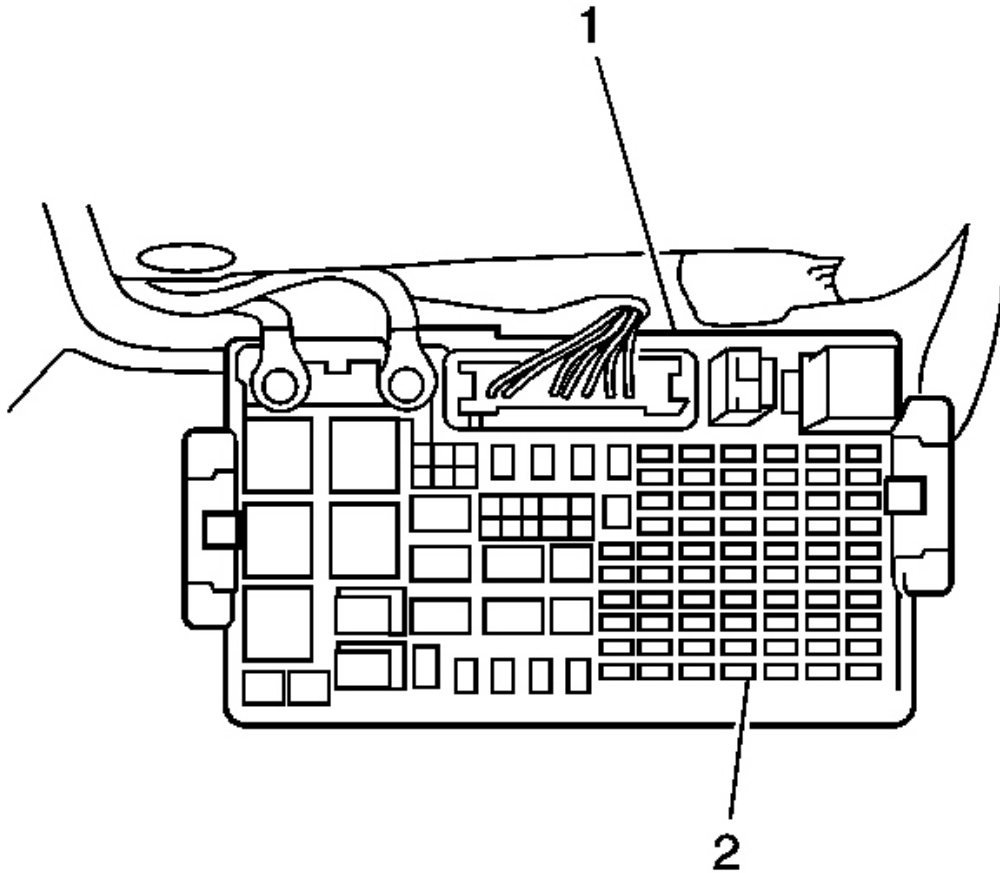


Fig. 128: Identifying 20A Fuse Location
Courtesy of GENERAL MOTORS CORP.

84. Install the 20A fuse into location 4, callout (2), per the diagram inside of the BEC cover.

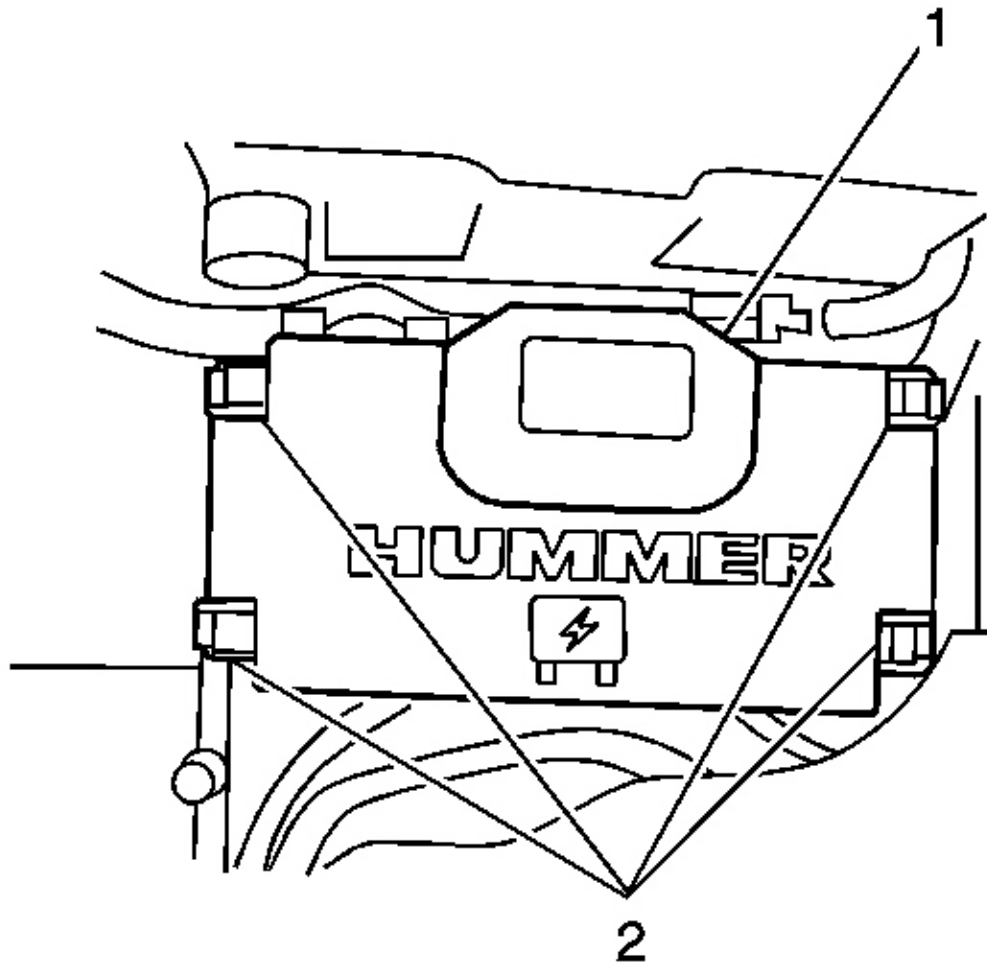


Fig. 129: View Of BEC Cover
Courtesy of GENERAL MOTORS CORP.

85. Position the cover (1) over the 4 lock tabs (2). Ensure the appropriate wire routing to avoid trapping wires.
86. Press the cover downward and listen for an audible snap.
87. Install the battery vent tube.
88. Connect the negative battery cable. Refer to **Battery Negative Cable Disconnection and Connection** .
89. Remove the lamp covers.

90. Press the lamp switch and verify the lamps are working.
91. Adjust the lamps, if needed. Refer to **Off Road Lamp Adjustment.**
92. Place the vehicle in park transmission position.
93. Disengage the park brake.

OFF ROAD LAMP BULB REPLACEMENT

Removal Procedure

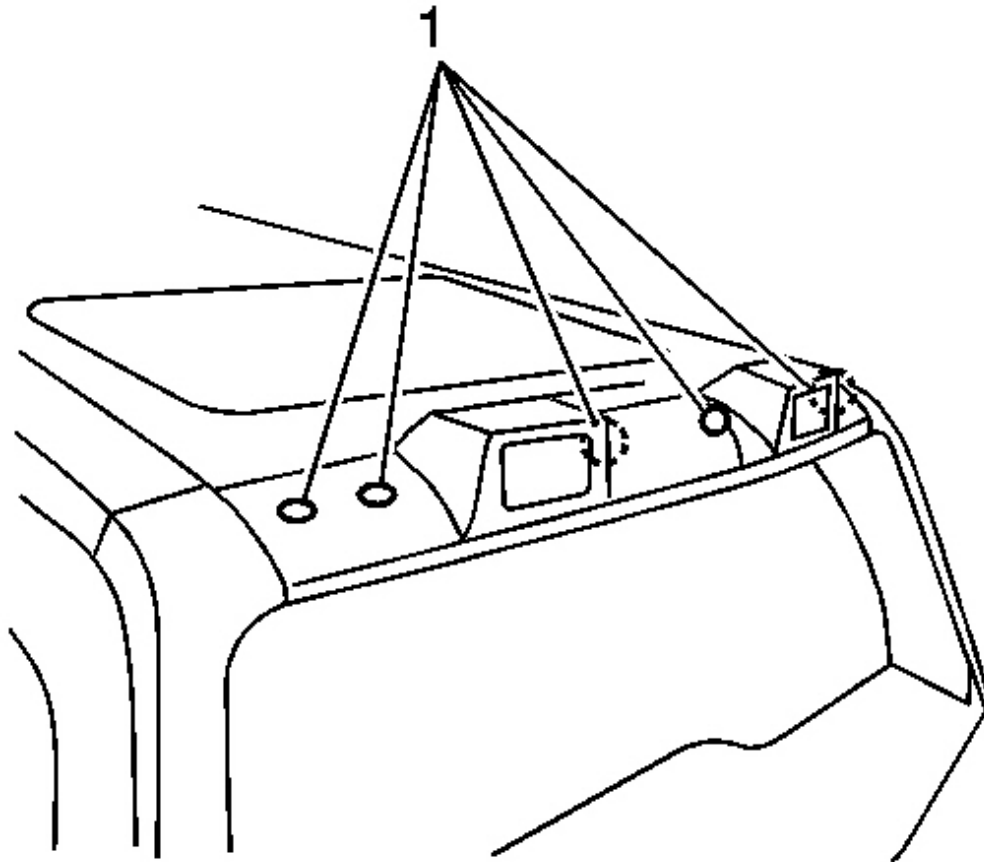


Fig. 130: Identifying Fastener Covers
Courtesy of GENERAL MOTORS CORP.

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1. Remove the 6 fastener covers by inserting a flat-bladed tool into the slot on the passengers side of each cover and gently lifting upward.
2. Using a T25 Torx driver, loosen the six bolts (1) under the fastener covers.
3. Rotate the lightbar rearward so that the light bar is laying upside down on the roof.
4. Remove the bulb socket from the lamp assembly by rotating 1/4 turn counterclockwise.
5. Pull the bulb outward from the lamp socket.
6. Replace the bulb.

Installation Procedure

1. Install the bulb socket into the lamp assembly by rotating 1/4 turn clockwise.
2. Rotate the light bar to the correct orientation.

NOTE: Refer to Fastener Notice .

3. Install the fasteners.

Tighten: Tighten the fasteners to 4.5 N.m (30 lb in).

4. Install the 6 fastener covers by aligning the tab to the drivers side and gently pressing inward into place.

OFF ROAD LAMP ADJUSTMENT

Adjustment Procedure

1. Insert the flat, angled end of the adjustment wrench into the depressions on the outboard edges of the covers.
2. Gently press forward to pry the covers off.
3. With the covers off and the roof lamps off, insert a 10 mm hex wrench between the outboard edge of the lamp and housing onto the adjustment screw.
4. Loosen the adjustment screw.
5. Rotate the lamp up or down to the desired position.
6. Tighten the adjustment screw.
7. Inspect the backside of the cover for RH or LH designation molded into the plastic. the RH cover goes on the passenger side and the LH goes on the driver side.
8. Slide the end with the long hook and O-ring into the lamp housing on the inboard side of the lamp.

9. Press the end with the two short tabs into the outboard side until you hear an audible snap.

DAYTIME RUNNING LAMP BULB REPLACEMENT

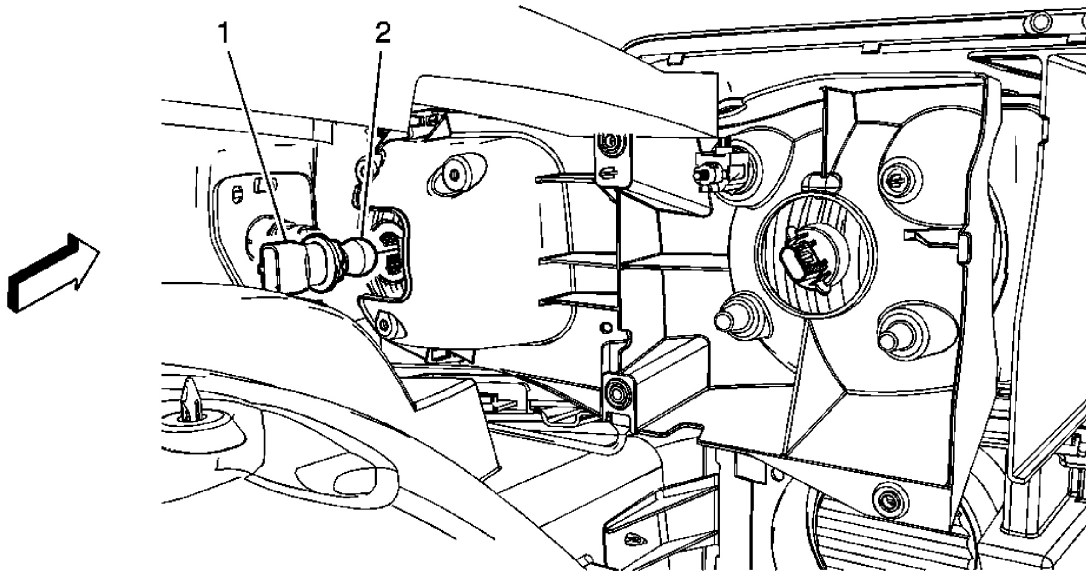


Fig. 131: Daytime Running Lamp Bulb Replacement
 Courtesy of GENERAL MOTORS CORP.

Daytime Running Lamp Bulb Replacement

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedure	
1. Remove either the RH or LH front wheelhouse panel. Refer to <u>Wheelhouse Panel Replacement (Front)</u> or <u>Wheelhouse Panel Replacement (Rear)</u> .	
2. Disconnect the electrical connector to the daytime running lamp (DRL) bulb socket.	
1	Daytime Running Lamp Bulb Socket Tip: Twist the lamp socket counterclockwise to remove.
2	Daytime Running Bulb

POSITION LAMP BULB REPLACEMENT

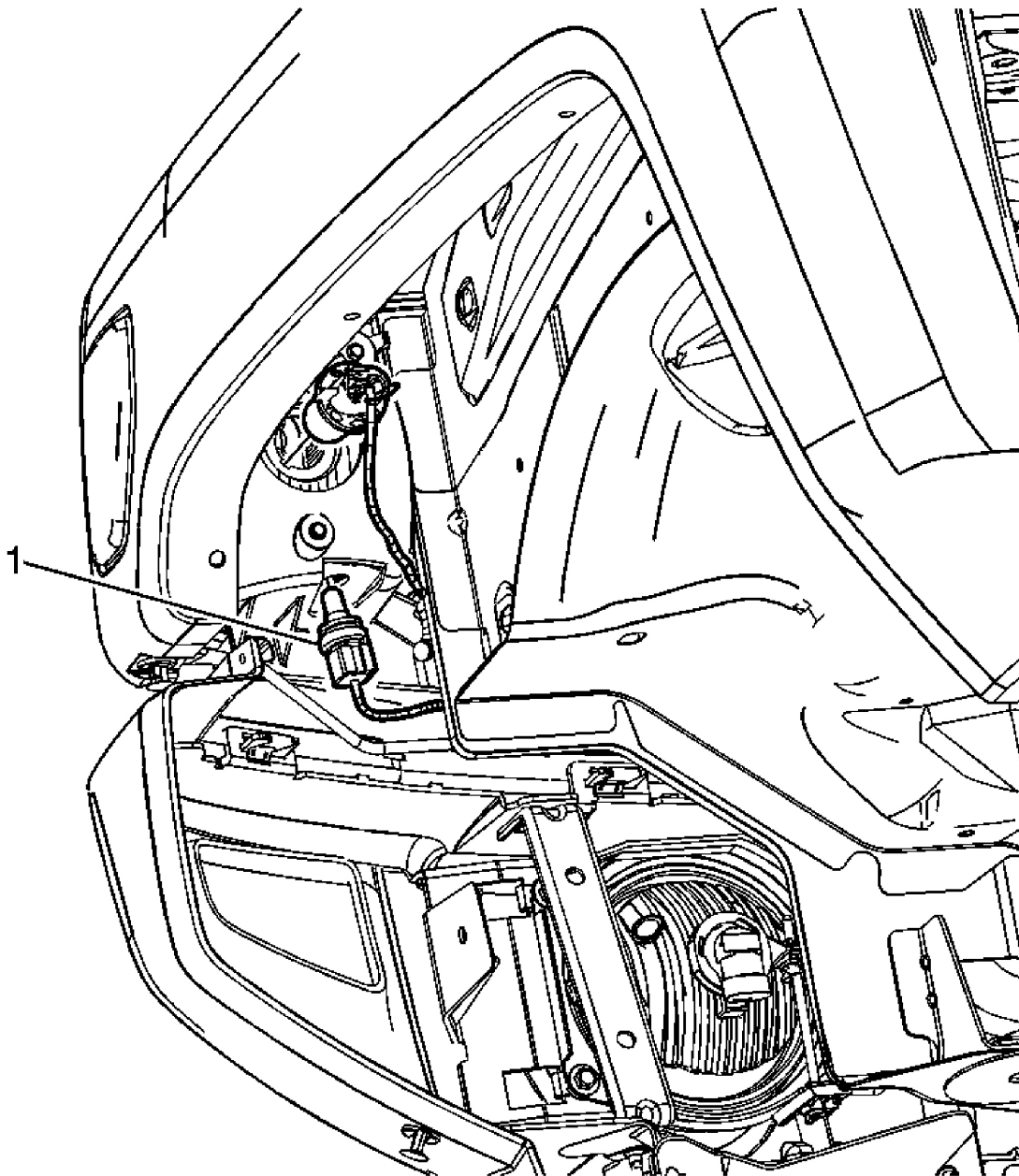


Fig. 132: Identifying Position Lamp Bulb
 Courtesy of GENERAL MOTORS CORP.

Position Lamp Bulb Replacement

Callout	Component Name
<p>Preliminary Procedure: Remove either the RH or LH front wheelhouse panel. Refer to <u>Wheelhouse Panel Replacement (Front)</u> or <u>Wheelhouse Panel Replacement (Rear)</u> .</p>	

Front Position Lamp Bulb

Tip:

1

1. Twist the lamp socket counterclockwise to remove from the lamp assembly.
2. Remove the bulb from the lamp socket.

FRONT SIDE MARKER LAMP REPLACEMENT (BASE)

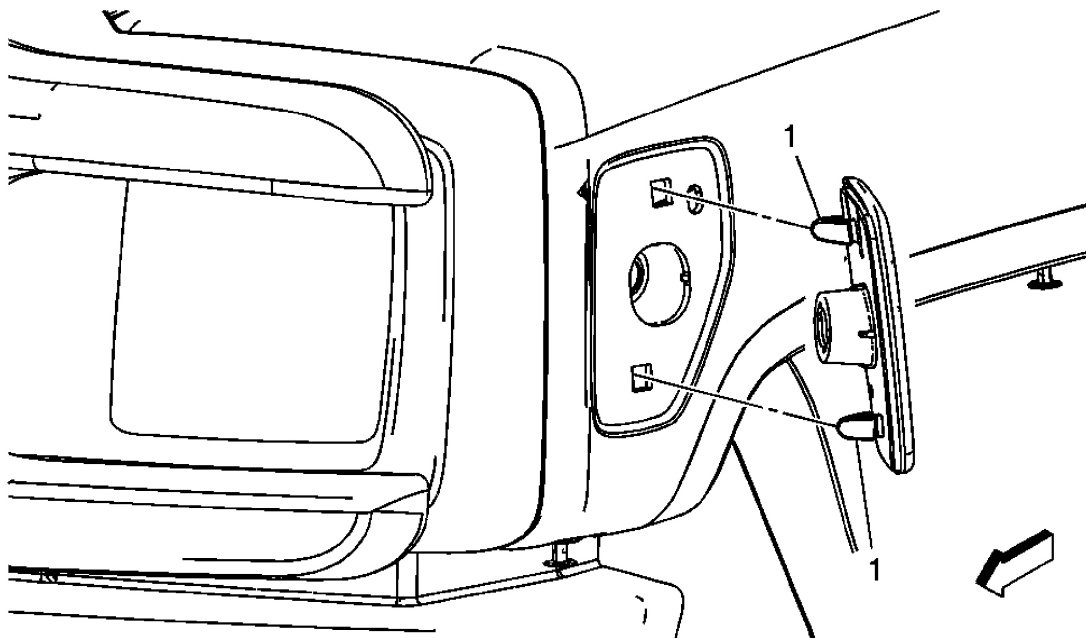


Fig. 133: Marker Lamp Replacement - Front Side
 Courtesy of GENERAL MOTORS CORP.

Front Side Marker Lamp Replacement (Base)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedure	
<ol style="list-style-type: none"> 1. Remove either the RH or LH wheelhouse panel. Refer to <u>Wheelhouse Panel Replacement (Front)</u> or <u>Wheelhouse Panel Replacement (Rear)</u> . 2. Disconnect the electrical socket from the front marker lamp, twist counterclockwise to remove. 	

- | | |
|---|---|
| 1 | <p>Lamp Assembly, Front Side Marker (Qty: 2)</p> <p>Tip: Pinch the clips and push the marker lamp outboard from the wheel opening flare.</p> |
|---|---|

FRONT SIDE MARKER LAMP REPLACEMENT (WITH BRM AND RHD)

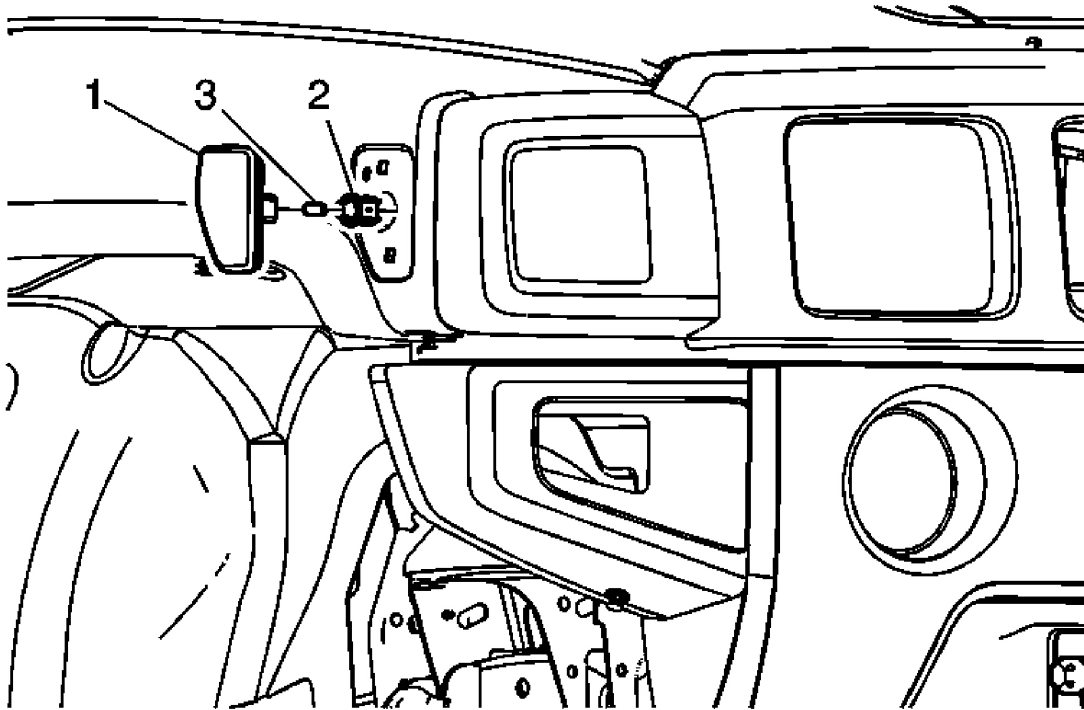


Fig. 134: Replacing Front Side Marker Lam
 Courtesy of GENERAL MOTORS CORP.

Front Side Marker Lamp Replacement (with BRM and RHD)

Callout	Component Name
Preliminary Procedure	
<ol style="list-style-type: none"> 1. Remove either the RH or LH wheelhouse panel. Refer to Wheelhouse Panel Replacement (Front) or Wheelhouse Panel Replacement (Rear) . 2. Disconnect the electrical socket from the front indicator lamp. 	
1	Front Side Indicator Lamp Assembly Tip: Pinch the clips and push the marker lamp outboard from the wheel opening flare.
2	Indicator Lamp Socket

3

Indicator Lamp Bulb

Tip: Replace the bulb as needed.

FRONT SIDE MARKER LAMP BULB REPLACEMENT

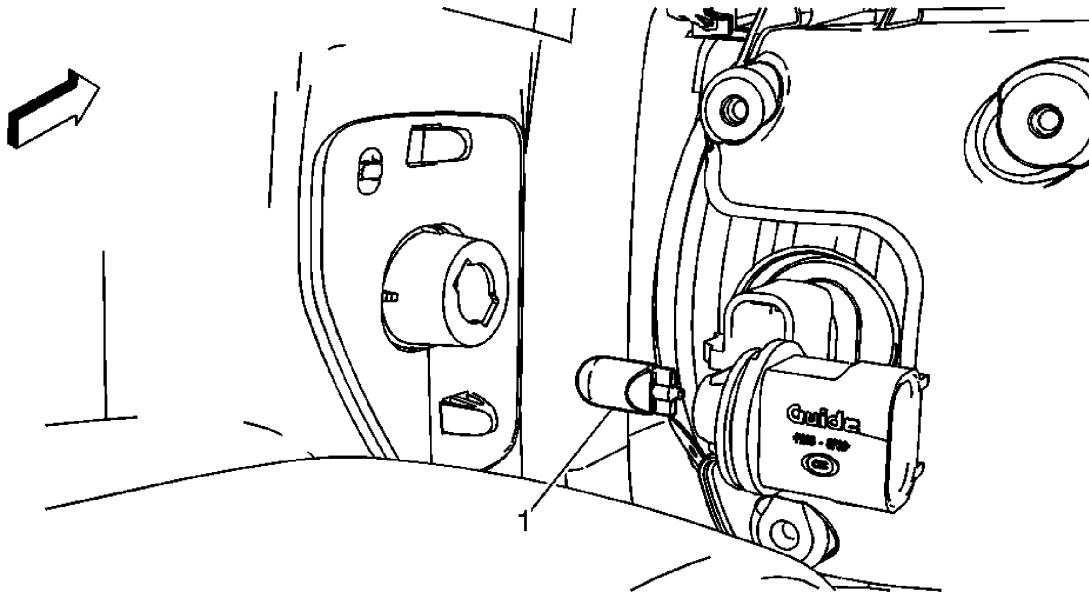


Fig. 135: Marker Lamp Replacement - Front Side
 Courtesy of GENERAL MOTORS CORP.

Front Side Marker Lamp Bulb Replacement

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedures	
<ol style="list-style-type: none"> 1. Remove the front wheelhouse panel. Refer <u>Wheelhouse Panel Replacement (Front)</u> or <u>Wheelhouse Panel Replacement (Rear)</u> . 2. Remove the electrical socket by twisting counterclockwise. 	
1	Bulb, Front Marker Lamp (Qty: 1)

ROOF MARKER LAMP PACKAGE INSTALLATION

Installation Procedure

1. Follow the Wiring Systems sub-section for splicing wires using splice sleeves. Refer to

Splicing Copper Wire Using Splice Sleeves .

2. Remove the ground terminal of the battery. Refer to **Battery Negative Cable Disconnection and Connection .**
3. Ensure the vehicle is in the park position.
4. Apply park brake.

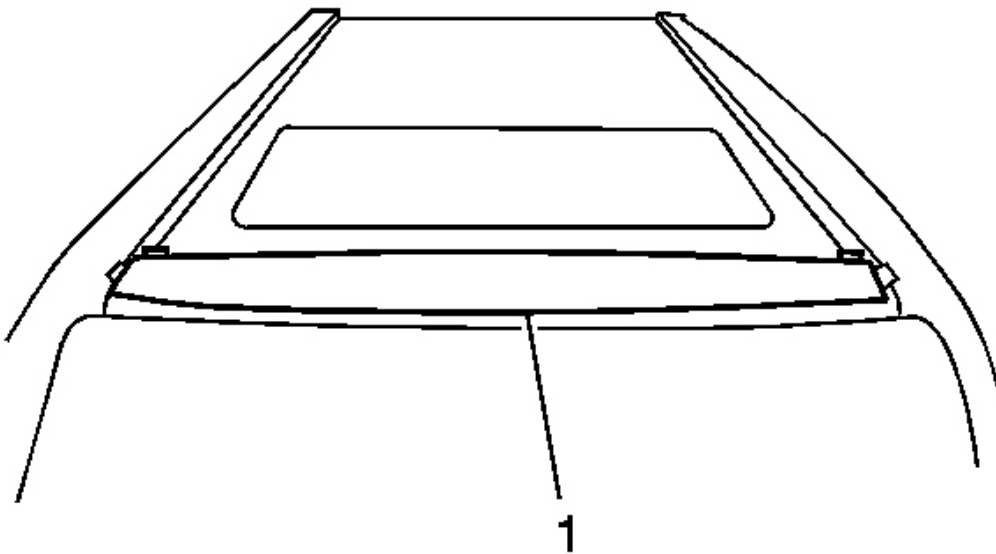


Fig. 136: View Of Centering Template
Courtesy of GENERAL MOTORS CORP.

5. Center the template provided (1) on the roof between the two A-pillars. Position the template so that the front edge rests against the rear edge of the windshield reveal molding and tape in place.
6. Mark the 6 hole locations with a trip punch or center punch.

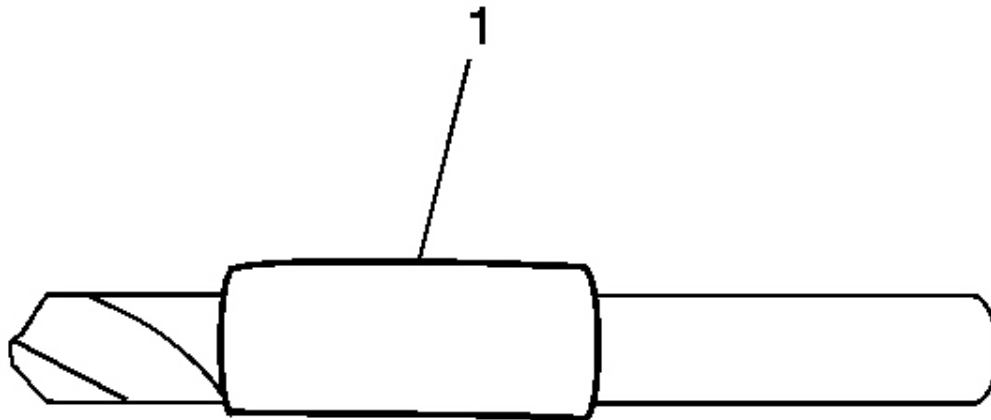


Fig. 137: View Of Tape Wrapped Drill Bit
Courtesy of GENERAL MOTORS CORP.

7. Before drilling, add several wraps of tape (1) around end of drill bit to prevent the drill bit from penetrating through the roof into the headliner.
8. Drill pilot holes with 2 mm (3/32 in) drill bit.
9. Expand the holes with 6 mm (1/4 in) drill bit.
10. Drill 9 mm holes in the 6 hole locations using the bit supplied within the kit.
11. Clear all the metal shavings from around the holes with a magnet or vacuum.
12. Apply GM Super Lube with PTFE, GM P/N 12371287, to the lower half of the rivnut and between the washer and hex body of rivnut tool prior to inserting the rivnut into the hole.

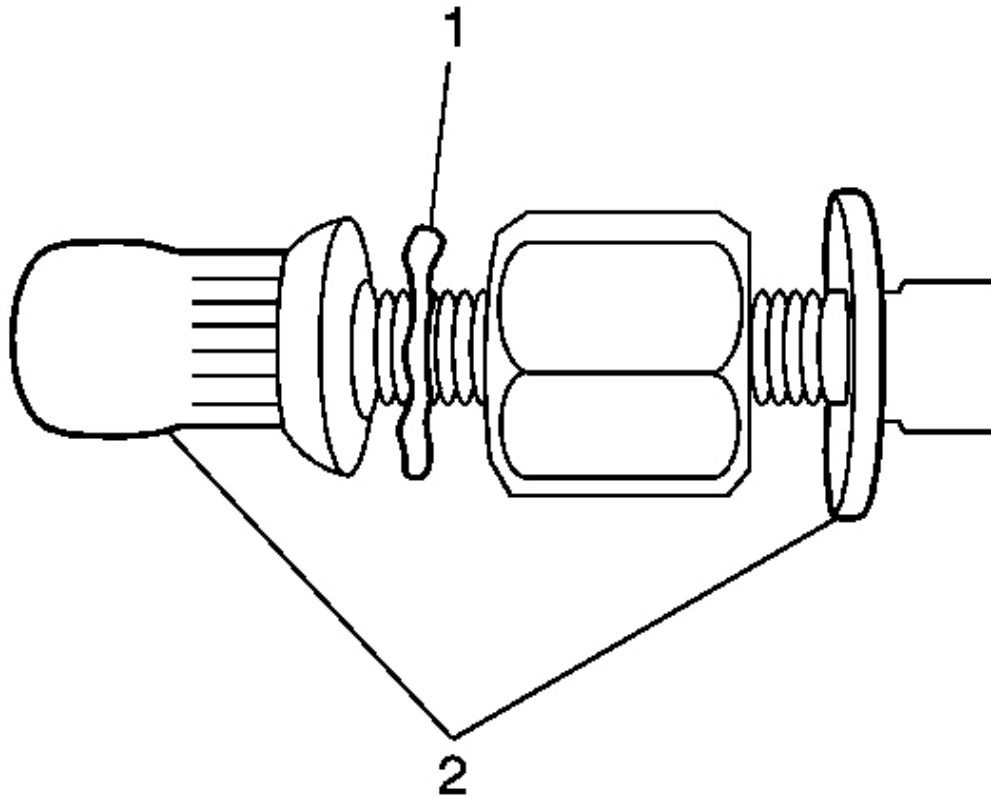


Fig. 138: Identifying Rivnut Tool
Courtesy of GENERAL MOTORS CORP.

13. Ensure that the Star washer (1) is positioned on top of the rivnut tool (2).

NOTE: Refer to Fastener Notice .

IMPORTANT: Do not overtighten the rivnuts.

14. Using a 5/16 inch box wrench in conjunction with a 1/2 inch open end wrench, secure the rivnuts to the roof panel.

Tighten: Tighten the rivnuts to 7 N.m (45 lb in).

15. Secure each rivnut to the roof panel.

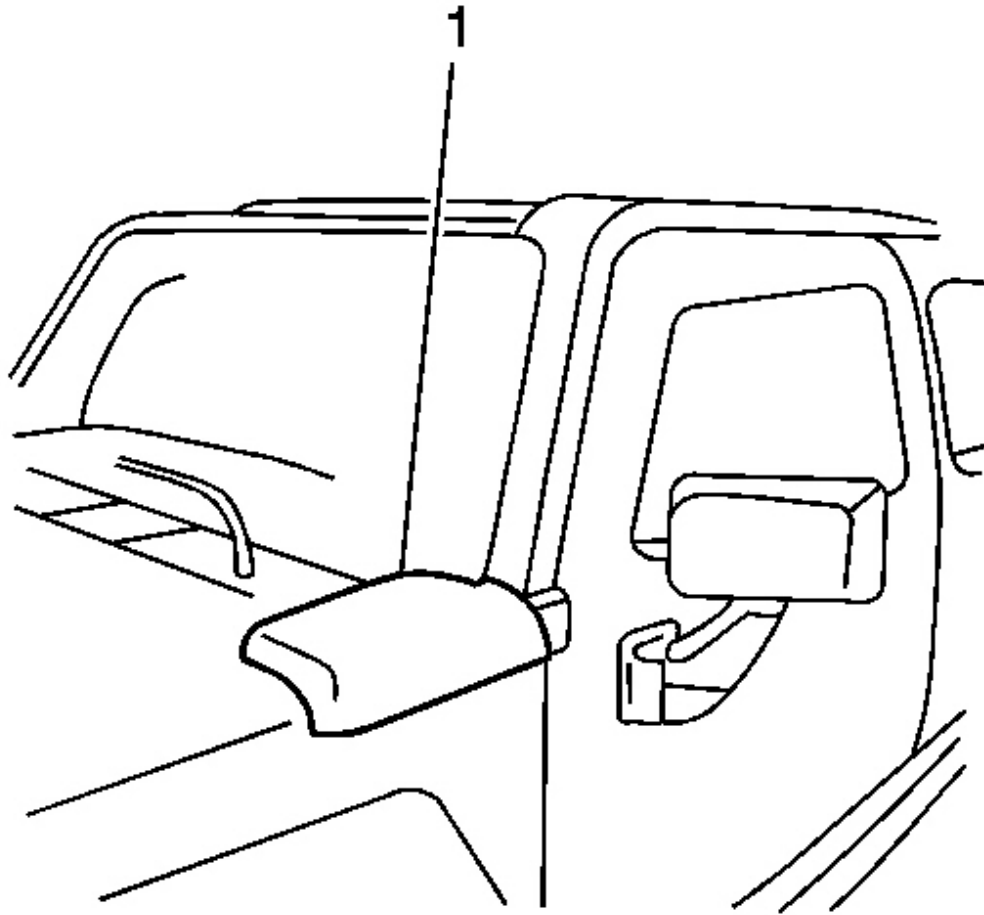


Fig. 139: Identifying Air Inlet Cover
Courtesy of GENERAL MOTORS CORP.

16. Remove the air inlet covers (1) on both driver and passenger sides by gently pulling upward to release the clips.

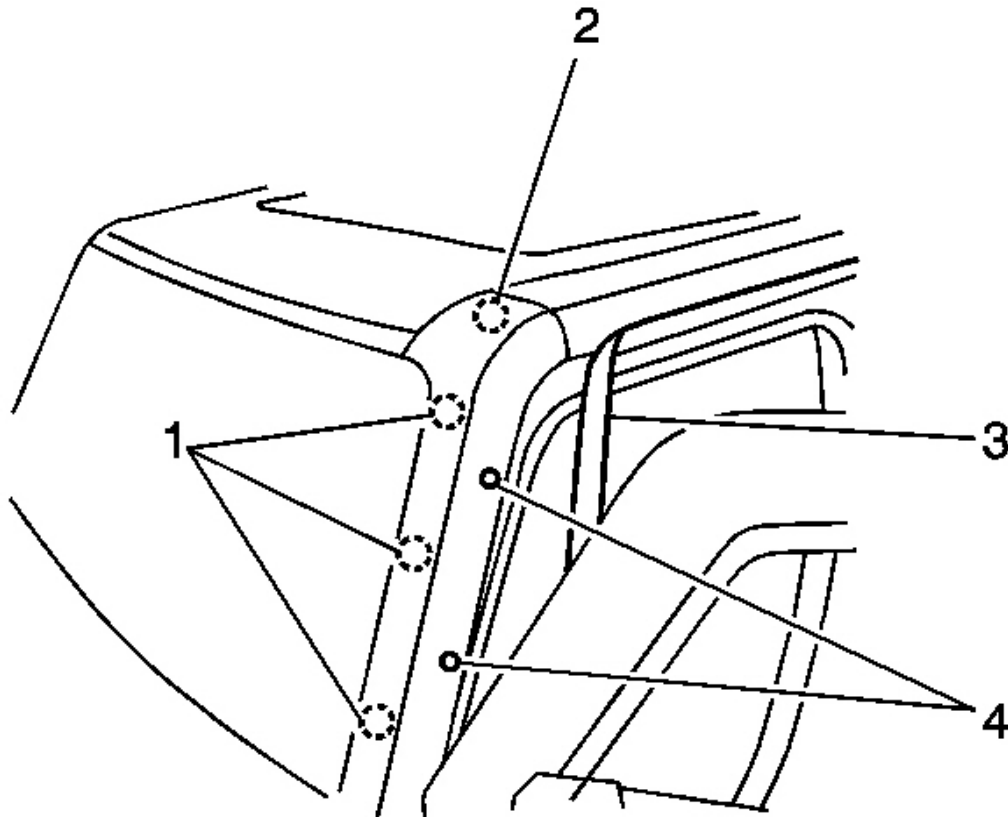


Fig. 140: Removing/Installing A-pillar trim
Courtesy of GENERAL MOTORS CORP.

17. Open both front doors.
18. Remove the exterior trim on both driver and passenger A-pillars by first peeling back the weatherstrip (3) to expose 2 screws (4).
19. Using a Phillips head screwdriver, remove the screws.
20. Pull the lower end of the A-pillar trim to unsnap the clips (1).
21. Disengage the A-pillar trim from the front end of the luggage rack/siderail (2) and remove.

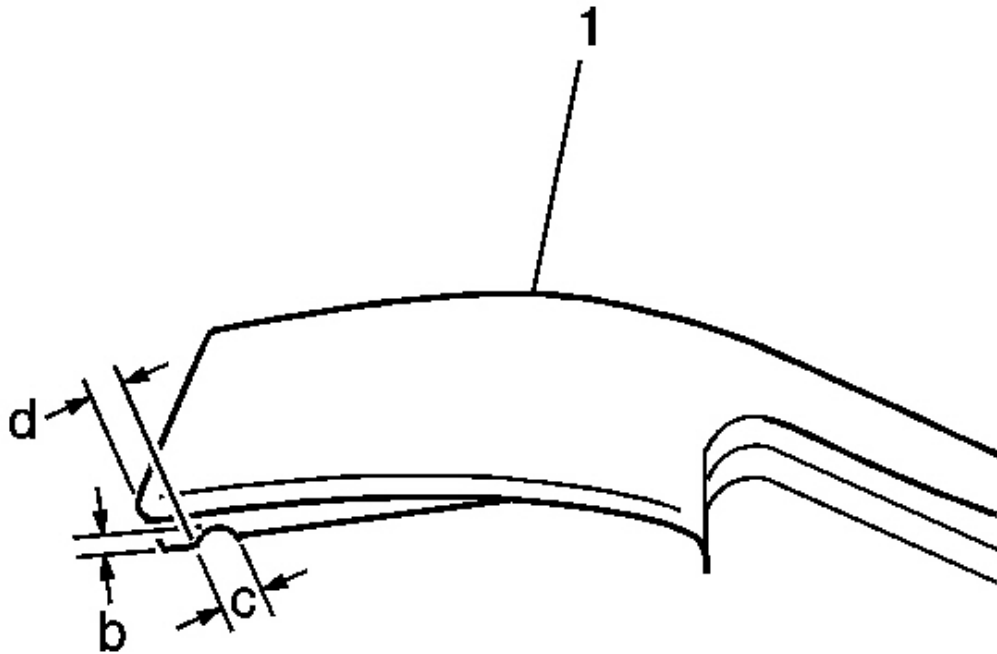


Fig. 141: Clipping Notch In A-Pillar
Courtesy of GENERAL MOTORS CORP.

22. Using diagonal cutters, clip a notch (c) in both A-pillars (1) as shown for the wire pass through.

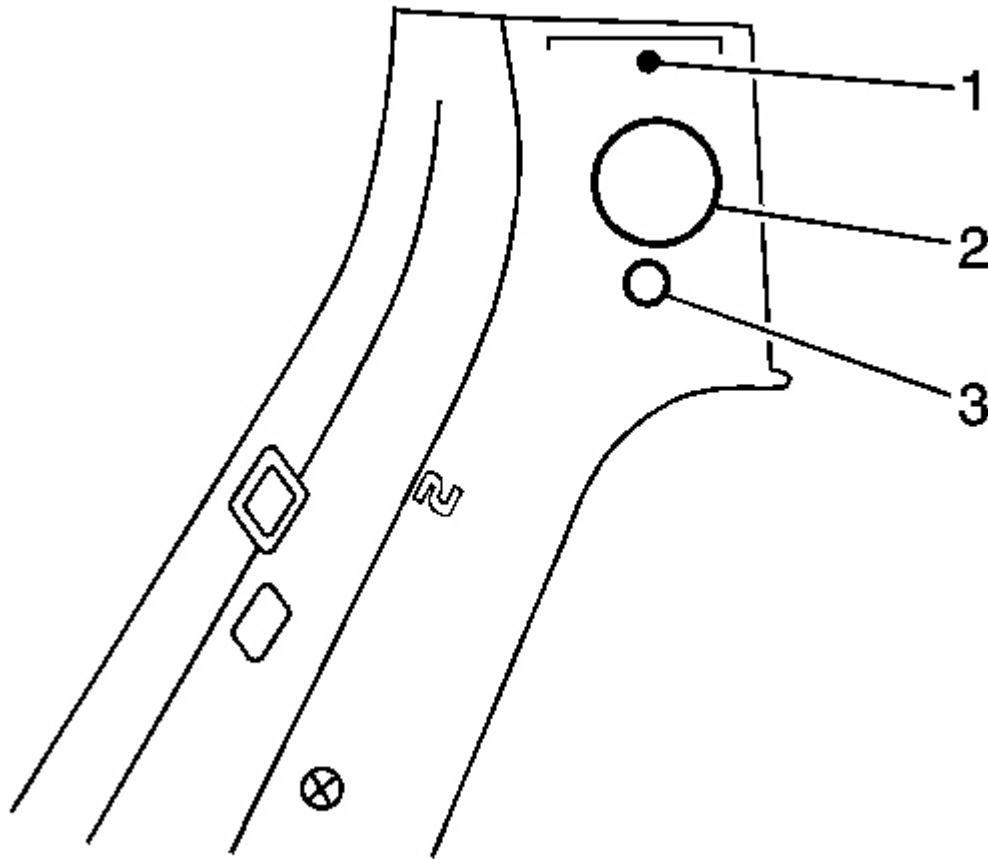


Fig. 142: Drilling 3 Holes

Courtesy of GENERAL MOTORS CORP.

23. Drill 3 holes in both A-pillar trim pieces for clearance lamp installation. On the backside of the A-pillar trim, locate the 3 circles and center points which are molded into the trim.
24. Using a 2 mm drill bit, pre-drill (1) all 3 holes.
25. Using a 2 inch holesaw, drill the middle hole (2).
26. Using a 1/2 inch drillbit, drill the forward hole (3).

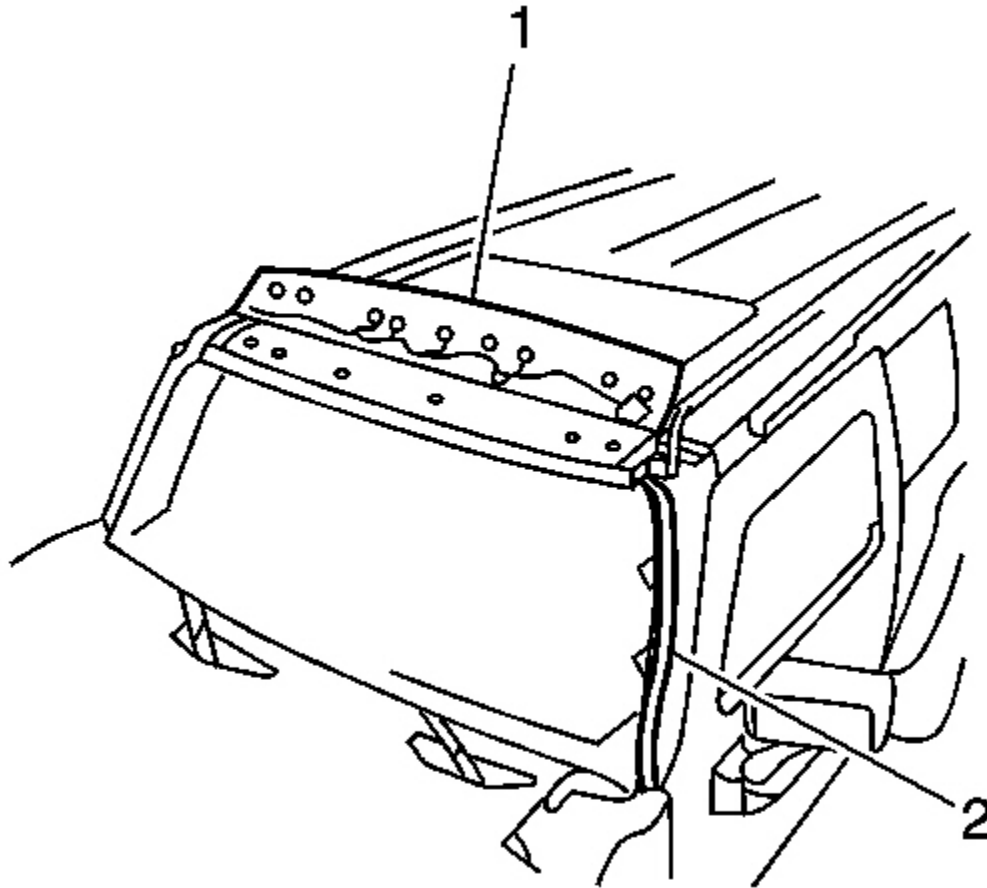


Fig. 143: Locating Lightbar And Electrical Harness Assembly
Courtesy of GENERAL MOTORS CORP.

27. Place the lightbar (1) and electrical harness assembly (2) upside down on the roof.
28. Route the harness down the driver side A-pillar, placing it near the windshield glass interference to A-pillar and spot tape in 3 places.
29. Ensure the harness lies flat and does not interfere with snap locations for A-pillar trim.

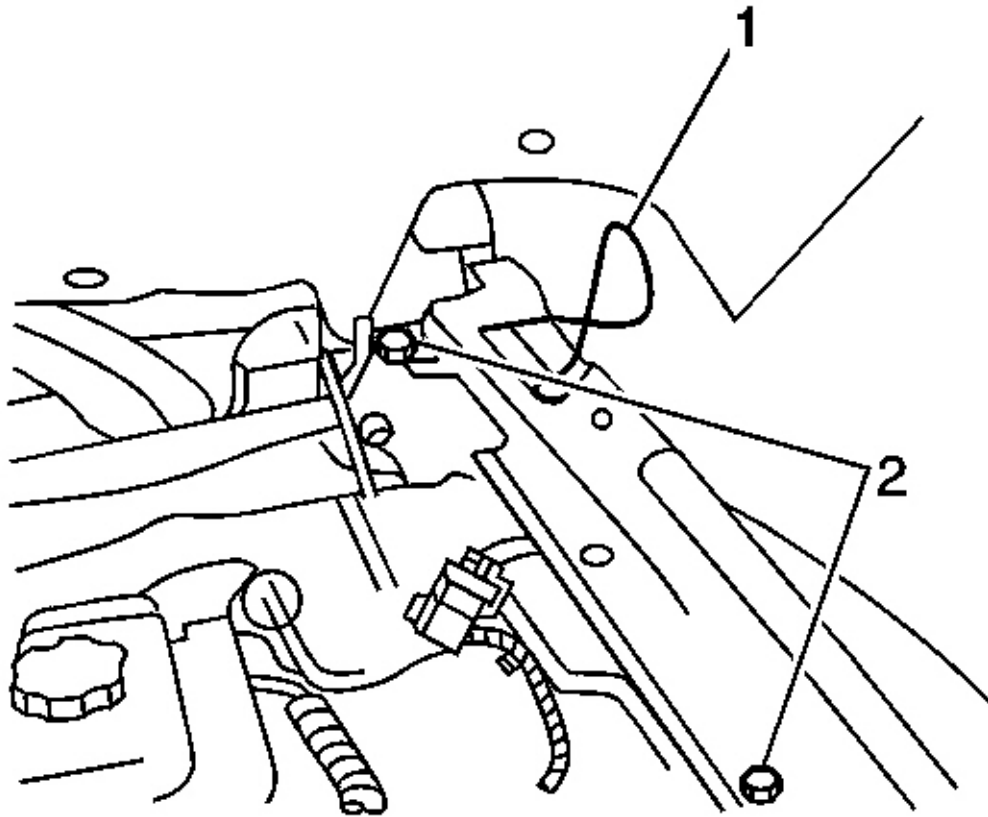


Fig. 144: Loosening 2 Screws At Fender Flange
Courtesy of GENERAL MOTORS CORP.

30. Loosen the 2 screws (2) at the fender flange under the air inlet cover to allow the electrical harness (1) to pass underneath.
31. Move the black foam out of the way.
32. Tighten the fender flange attaching screws.

Tighten: Tighten the fender flange screws to 7 N.m (45 lb in).

33. Reposition the black foam under fender flange.
34. Rotate the lightbar to the correct orientation.
35. Position the front edge of light bar approximately 3 mm (1/8 in) rearward from the front

edge of the windshield reveal molding. Using the 6 fasteners provided and T25® Torx driver, install the lightbar to the roof.

IMPORTANT: Ensure the wiring is not trapped beneath the fasteners.

36. Maintain a parallel gap to the windshield reveal molding and luggage rack side rails.

Tighten: Tighten the fasteners to 4.5 N.m (30 lb in).

37. Ensure the lightbar is centered between A-pillars, adjust if necessary.

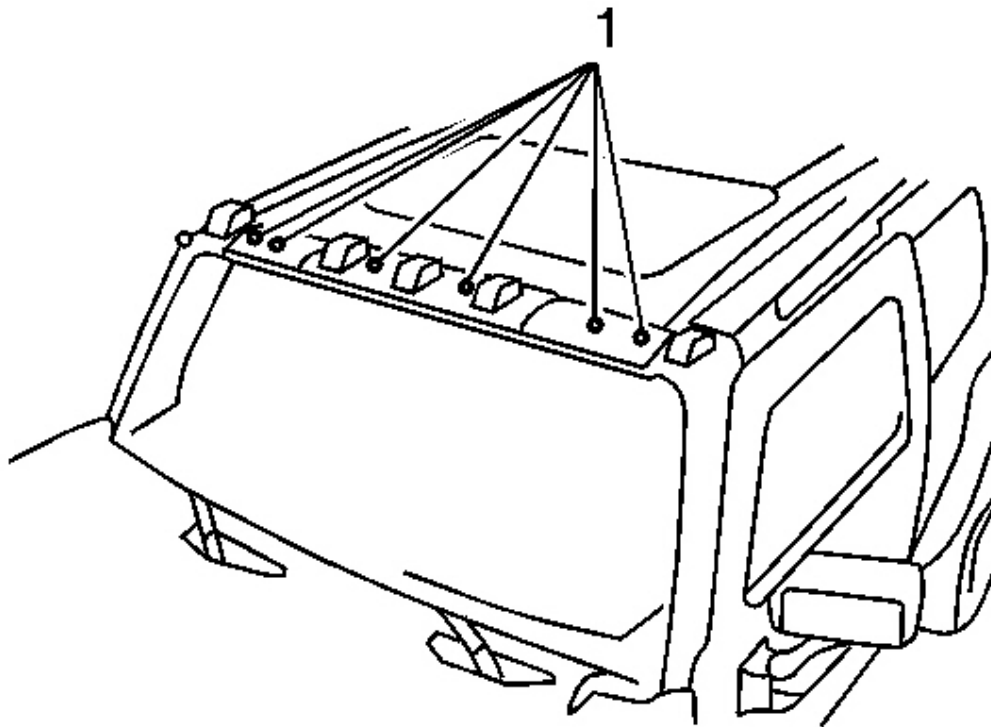


Fig. 145: Identifying Fastener Covers
Courtesy of GENERAL MOTORS CORP.

38. Install the 6 fastener covers (1) by aligning the cover's tab to the driver's side and gently pressing in place.

39. Mount the clearance lamps to A-pillars by sliding hook at front edge into 1/2 inch hole. Secure the rear edge with T20® torx driver and screw provided.
40. Ensure left hand lamp is on the driver side A-pillar and right hand lamp is on the passenger side A-pillar.
41. Plug in the bulb and socket on clearance lamps by pressing the socket in and turning 1/4 turn clockwise.
42. Reinstall the A-pillar trim on both driver and passenger sides by hooking rear edge under tab at luggage rack siderail and pressing the clips into place.
43. Install the 2 screws behind the weatherstrip.

Tighten: Tighten the screws to 2 N.m(18 lb in).

44. Reposition the weatherstrip.

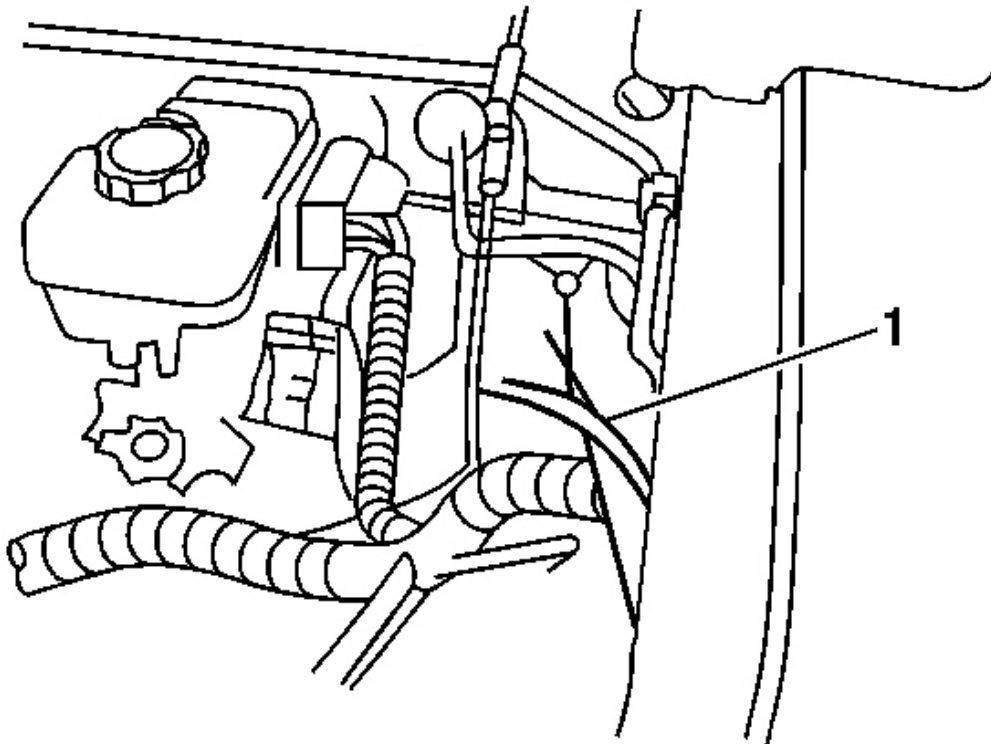


Fig. 146: Locating 6 Blunt Wiring Cuts

Courtesy of GENERAL MOTORS CORP.

45. Locate the 6 blunt wiring cuts (1) in the engine compartment behind the driver's side wheelhouse. The engine compartment blunt cuts have seals on them that must be removed prior to using the splice sleeve.
46. Carefully remove some of the seal on the appropriate wire using a wiring stripping tool.
47. Using the splice sleeve provided, splice the blunt black cut wire to the black wire in the electrical harness.
48. Replace the conduit over the splice and tape the wiring in position.

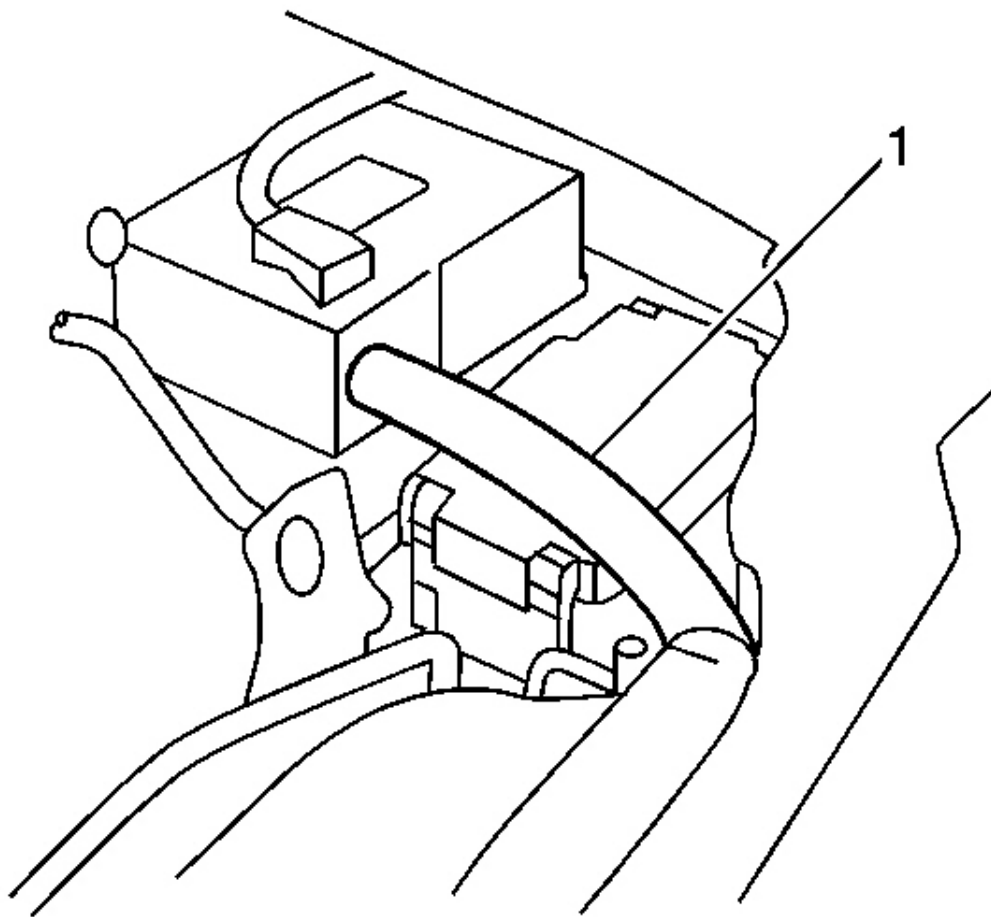


Fig. 147: Locating Battery Vent Tube

Courtesy of GENERAL MOTORS CORP.

49. Remove the battery vent tube (1) in order to access the bussed electrical center (BEC).

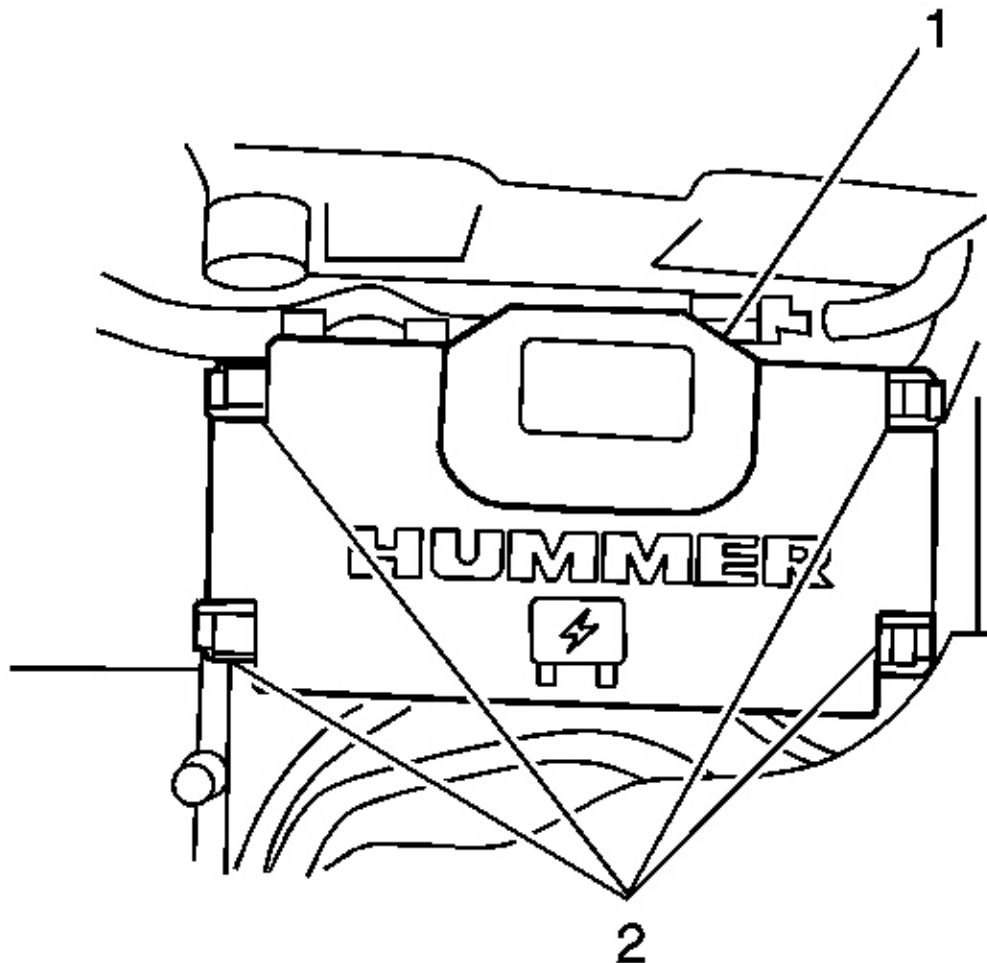


Fig. 148: View Of BEC Cover
Courtesy of GENERAL MOTORS CORP.

50. Release the BEC cover (1) by depressing the locks (2) on both sides of cover simultaneously.

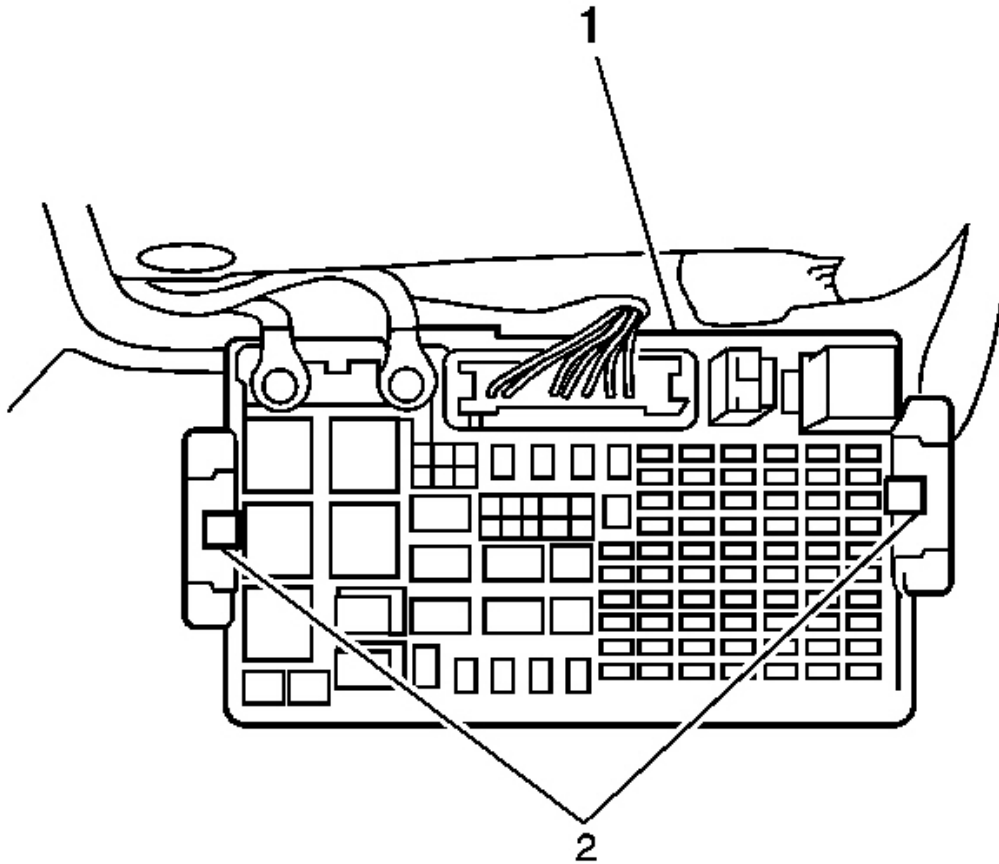


Fig. 149: Identifying BEC Release Tabs
Courtesy of GENERAL MOTORS CORP.

51. Press the tabs (2) on the right and left sides.
52. Pull up on the BEC using both hands.

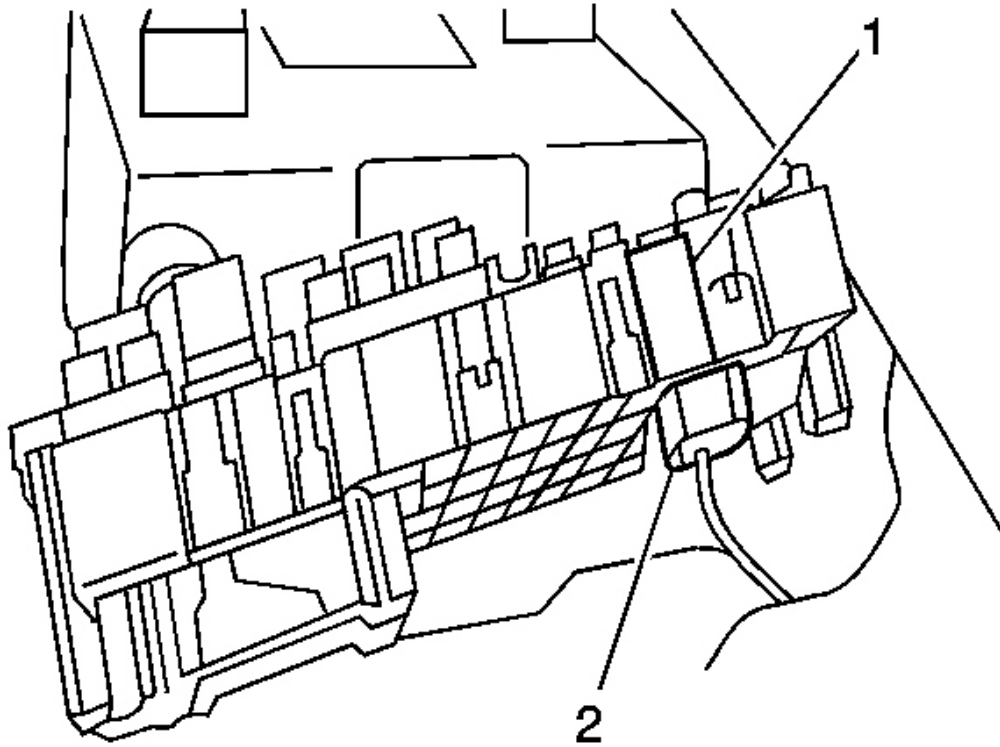


Fig. 150: View Of BEC 8-Way Electrical Connector
Courtesy of GENERAL MOTORS CORP.

53. Locate the red harness wire with a connector at the end.
54. Plug the 8-way electrical connector (2) into the bottom of BEC (1) as shown.
55. Reassemble the BEC by ensuring the 2 47-way connectors are in the upright and locked position. Ensure the locking fingers are engaged under the mating lock lug.
56. Press downward and listen for an audible snap.

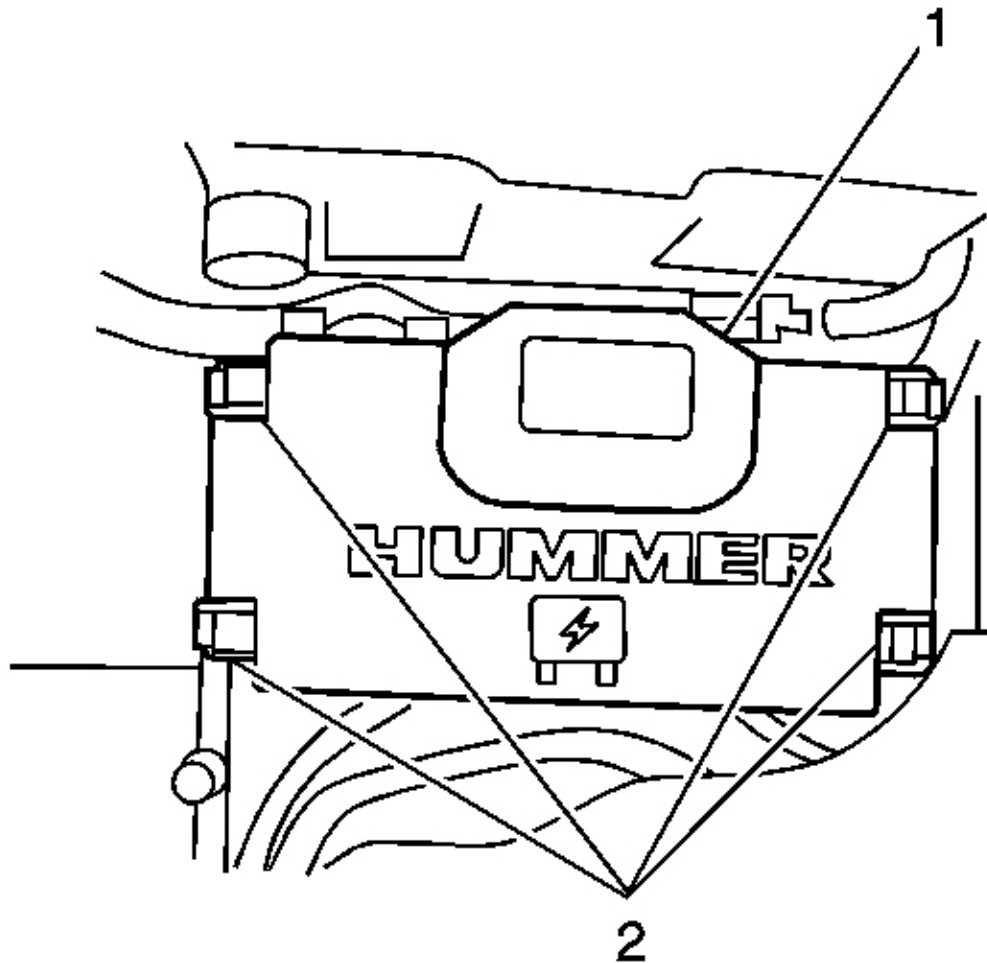


Fig. 151: View Of BEC Cover
Courtesy of GENERAL MOTORS CORP.

57. Position the cover (1) over the 4 lock tabs (2). Ensure the appropriate wire routing to avoid trapping wires.
58. Press down and listen for an audible snap.
59. Install the negative battery cable. Refer to **Battery Negative Cable Disconnection and Connection** .
60. Verify the marker lamps come on with the other exterior lamps.
61. Place the vehicle in park transmission position.

62. Disengage the park brake.

ROOF IDENTIFICATION LAMP BULB REPLACEMENT

Removal Procedure

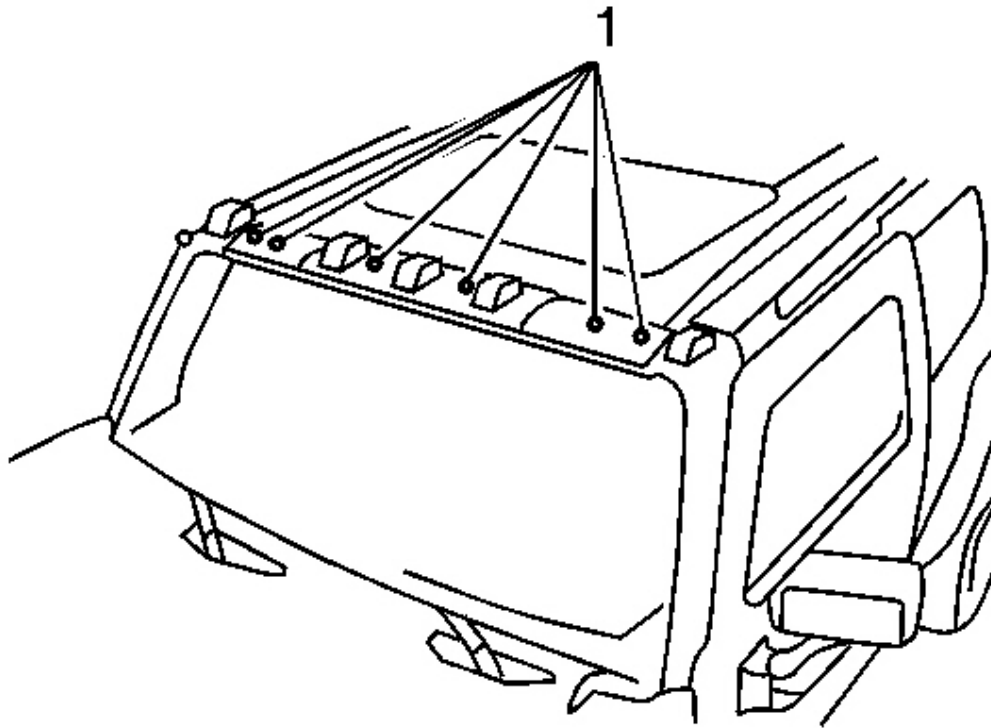


Fig. 152: Locating Fastener Covers
Courtesy of GENERAL MOTORS CORP.

1. Remove the 6 fastener covers (1) by inserting a flat-head screwdriver into the slot on the passenger's side of each cover and gently lifting upward.
2. Using a T25® torx driver, loosen the 6 bolts under the fastener covers.
3. Rotate lightbar back so that lightbar is laying upside down on roof. Remove the bulb socket from lamp assembly by rotating the bulb socket 1/4 turn counterclockwise.
4. Pull the bulb out of the socket.
5. Replace bulb.

Installation Procedure

1. Install the bulb socket into the lamp assembly by rotating the bulb socket 1/4 turn clockwise.

NOTE: Refer to Fastener Notice .

2. Rotate lightbar to correct orientation and install the bolts using the T25 torx driver.

Tighten: 4.5 N.m (30 lb in).

3. Install the 6 fastener covers by aligning the tab to driver's side and gently pressing in place.

ROOF CLEARANCE LAMP BULB REPLACEMENT

Removal Procedure

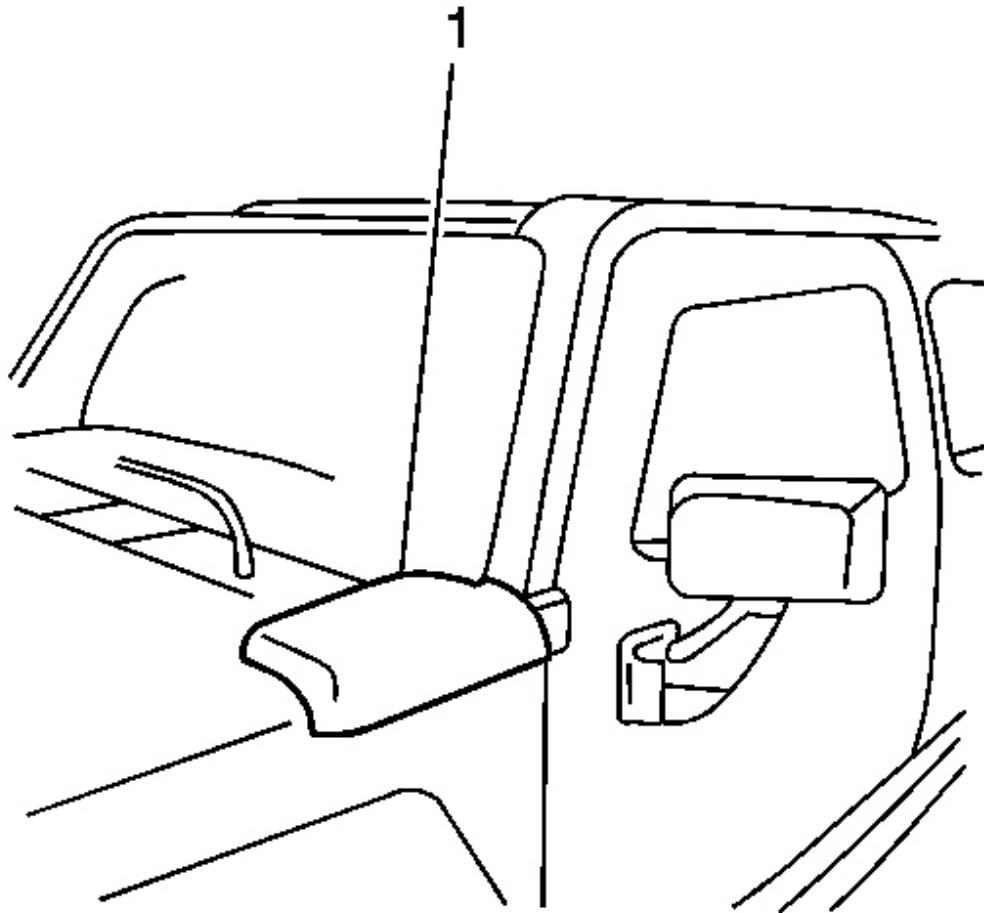


Fig. 153: Identifying Air Inlet Cover
Courtesy of GENERAL MOTORS CORP.

1. Remove the air inlet cover (1) by pulling up to release the clips.
2. Open the front doors.
3. Remove A-pillar trim by first peeling back the weatherstrip to expose the 2 screws.
4. Use a Phillips head screwdriver, to remove the screws.
5. Pull up on the lower end of the A-pillar trim to unsnap the clips (1).
6. Unhook the A-pillars from the front end of the luggage rack/siderail.
7. Remove bulb socket from the lamp assembly by rotating 1/4 turn counterclockwise.

8. Pull the bulb out of the socket.
9. Replace the bulb.

Installation Procedure

1. Install the lamp socket into the lamp assembly by rotating the lamp socket 1/4 turn clockwise.

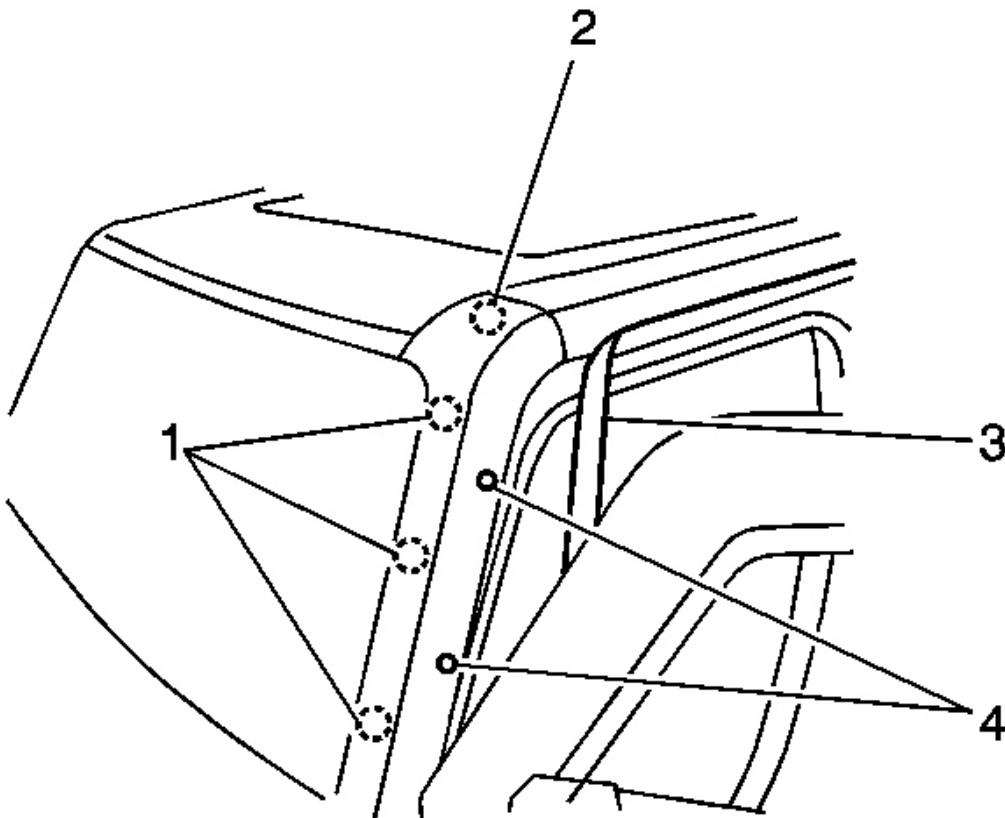


Fig. 154: Removing/Installing A-pillar trim
Courtesy of GENERAL MOTORS CORP.

2. Install the A-pillar trim by hooking the rear edge under the tab (2) at the luggage rack/siderail and pressing the clips (1) into place.

NOTE: Refer to Fastener Notice .

3. Install the 2 screws (4) behind weatherstrip.

Tighten: Tighten the screws to 2 N.m (18 lb in).

4. Reposition the weatherstrip (3).

PARKING AND TURN SIGNAL LAMP REPLACEMENT

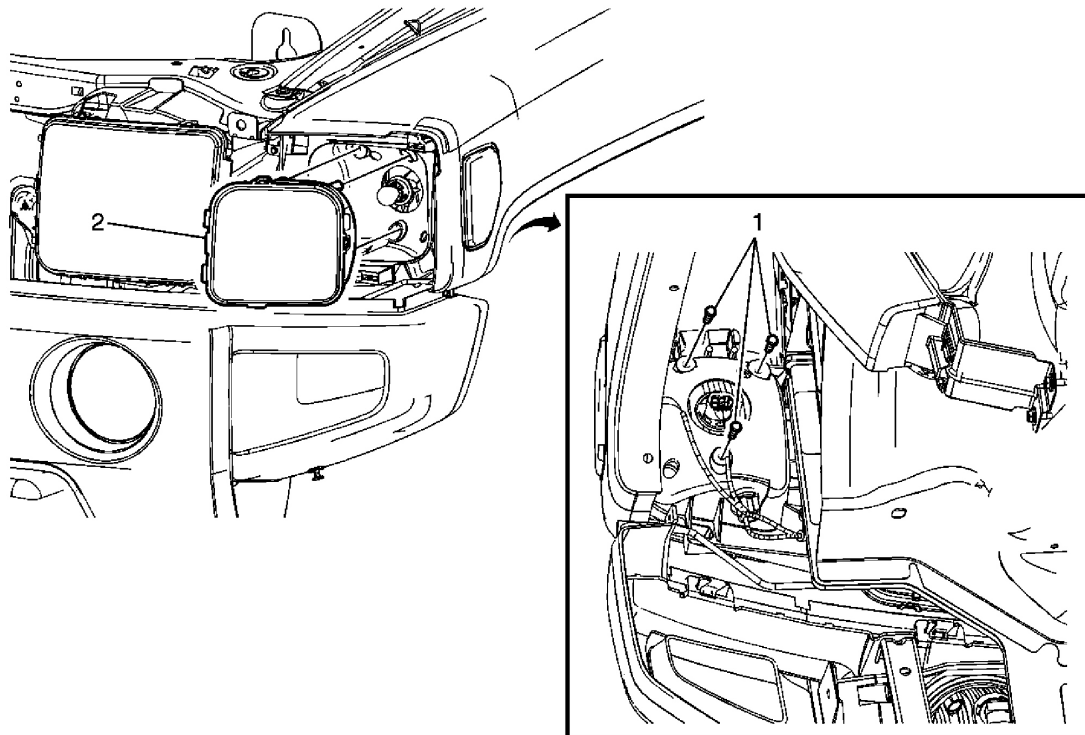


Fig. 155: Replacing Parking and Turn Signal Lamp
Courtesy of GENERAL MOTORS CORP.

Parking and Turn Signal Lamp Replacement

Callout	Component Name
Preliminary Procedure	
1.	Remove either the RH or LH front wheelhouse panel. Refer to <u>Wheelhouse Panel Replacement (Front)</u> or <u>Wheelhouse Panel Replacement (Rear)</u> .
2.	Remove the front grille. Refer to <u>Grille Replacement</u> .

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3. Disconnect the electrical connector from the daytime running lamp (DRL) bulb socket.

1	<p>Park and Turn Signal Lamp Bolt (Qty: 3)</p> <p>NOTE: Refer to <u>Fastener Notice</u> .</p> <p>Tighten: 5 N.m (44 lb in)</p> <p>Tip: Support the lamp assembly when removing the bolts.</p>
2	<p>Park and Turn Signal Lamp Assembly</p> <p>Tip:</p> <ol style="list-style-type: none">1. Remove the bulb sockets from the park and turn signal lamp assembly.2. Remove the park and turn signal lamp assembly by sliding forward.

PARK/TURN SIGNAL LAMP BULB REPLACEMENT

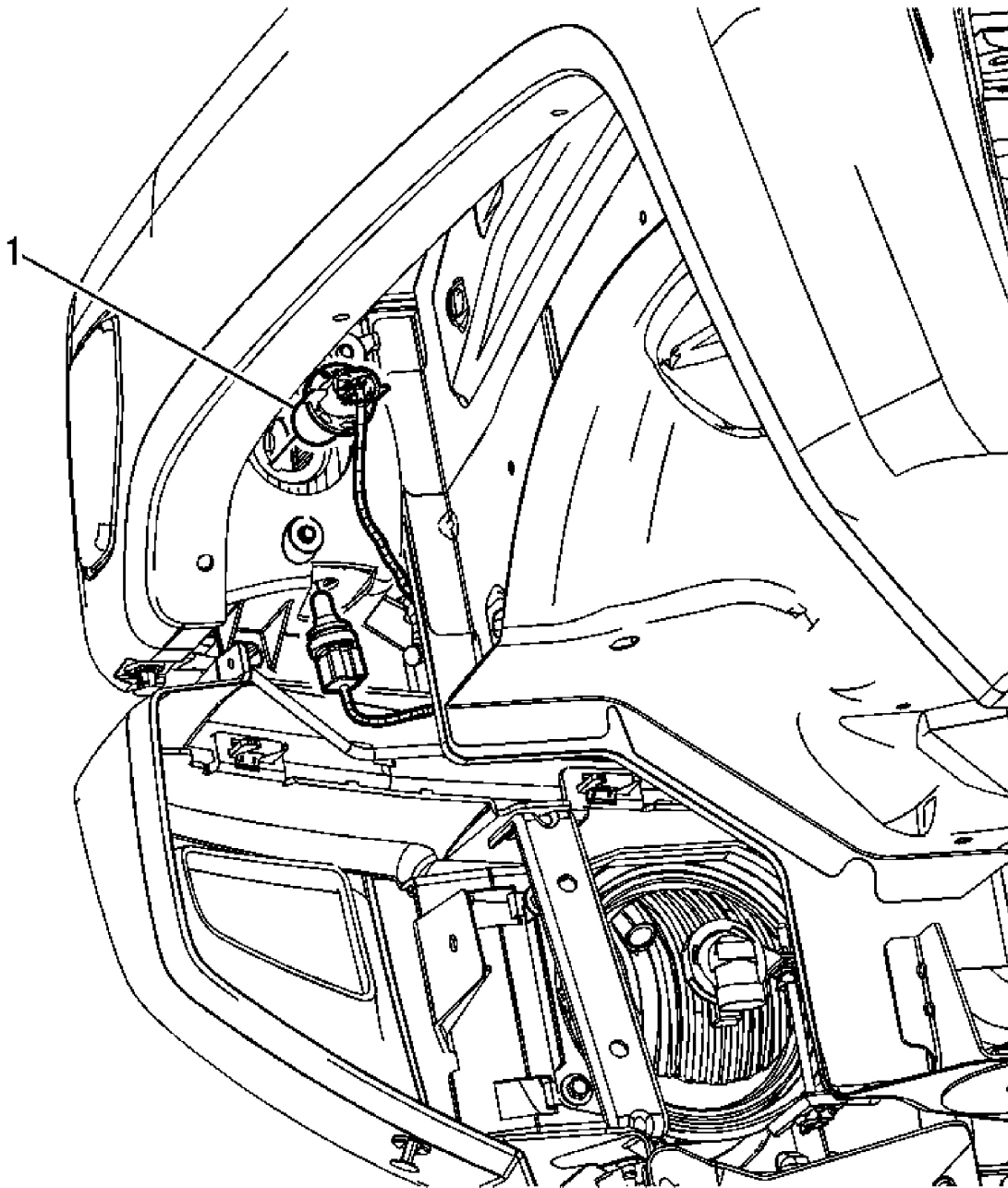


Fig. 156: Replacing Park/Turn Signal Lamp Bulb
 Courtesy of GENERAL MOTORS CORP.

Park/Turn Signal Lamp Bulb Replacement

Callout	Component Name
Preliminary Procedure:	
	Remove either the RH or LH front wheelhouse panel. Refer to Wheelhouse Panel

Replacement (Front) or Wheelhouse Panel Replacement (Rear) .

1	<p>Park and Turn Signal Lamp Bulb Tip:</p> <ol style="list-style-type: none"> 1. Twist the lamp socket counterclockwise to remove from the lamp assembly. 2. Remove the bulb from the lamp socket.
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HIGH MOUNT STOP LAMP REPLACEMENT

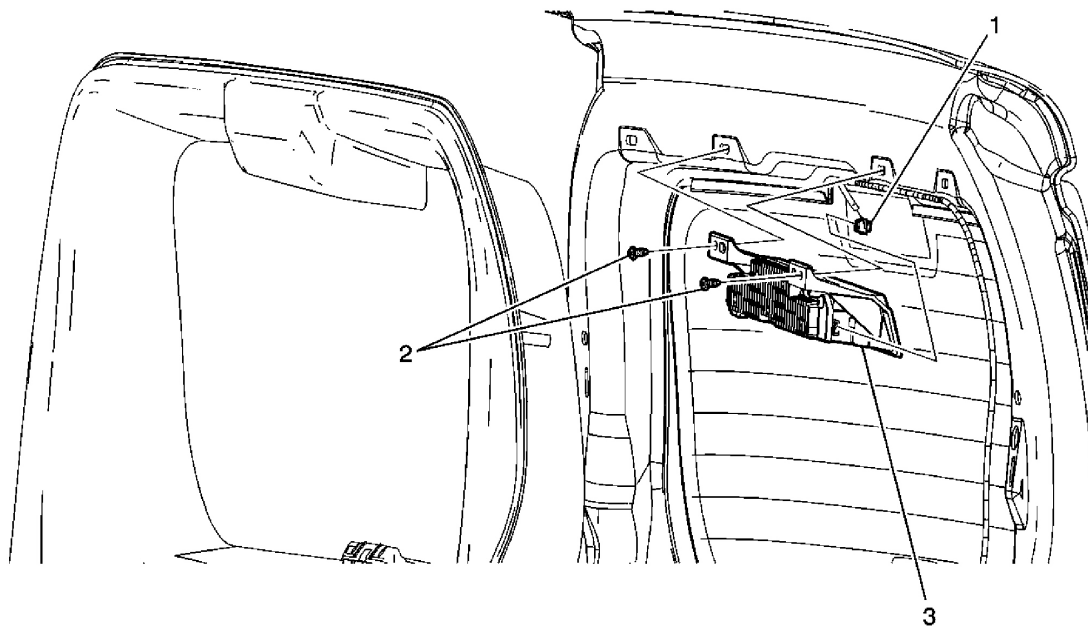


Fig. 157: High Mounted Stop Lamp Replacement
 Courtesy of GENERAL MOTORS CORP.

High Mount Stop Lamp Replacement

Callout	Component Name
<p>NOTE: Refer to <u>Fastener Notice</u> .</p> <p>Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u>. Preliminary Procedure: Remove the endgate upper interior trim panel. Refer to <u>Endgate Trim Panel Replacement</u> .</p>	
1	Connector, Electrical Harness (Qty: 1)

2	Bolts, High Mounted Stop Lamp (Qty: 2) Tighten: 2 N.m (18 lb in)
3	Lamp Assembly - High Mounted Stop (LED) (Qty: 1)

BACKUP LAMP BULB REPLACEMENT

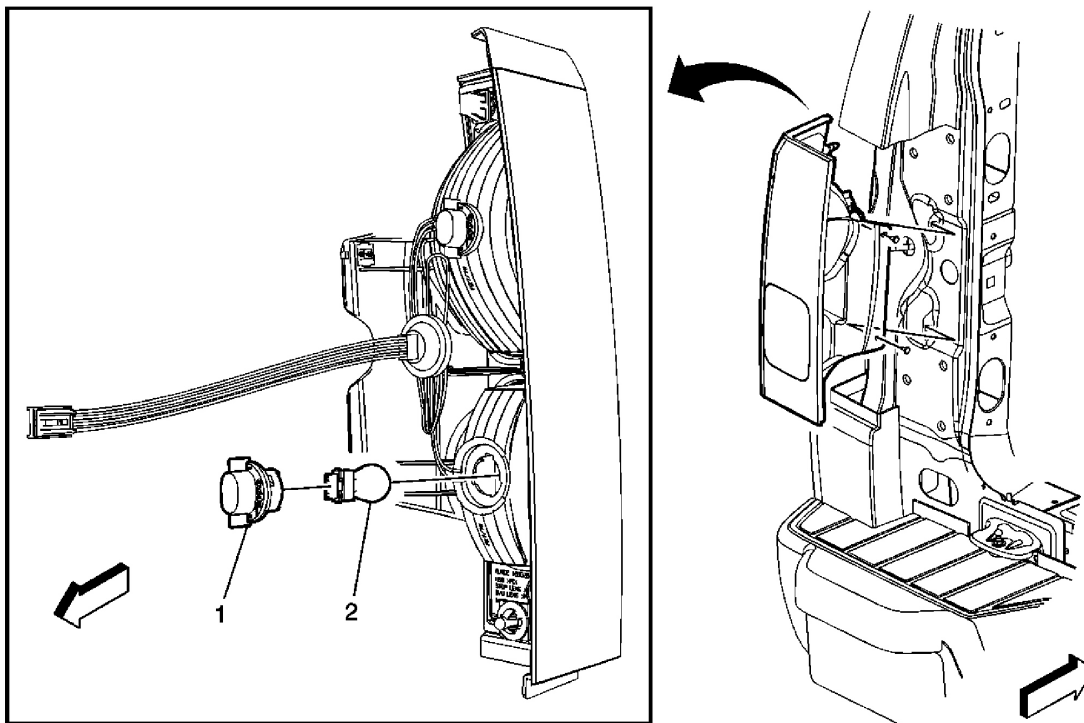


Fig. 158: Replacing Backup Lamp Bulb
 Courtesy of GENERAL MOTORS CORP.

Backup Lamp Bulb Replacement

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> . Preliminary Procedure: Remove either the LR or RR tail lamp assembly. Refer to <u>Tail Lamp Replacement</u> .	
1	Back Up Lamp Bulb Socket Tip: Turn the lamp socket counter-clockwise a quarter turn to remove from the tail lamp.
2	Back Up Lamp Bulb Tip: Pull the bulb straight from the lamp socket.

REAR LICENSE LAMP REPLACEMENT (BASE)

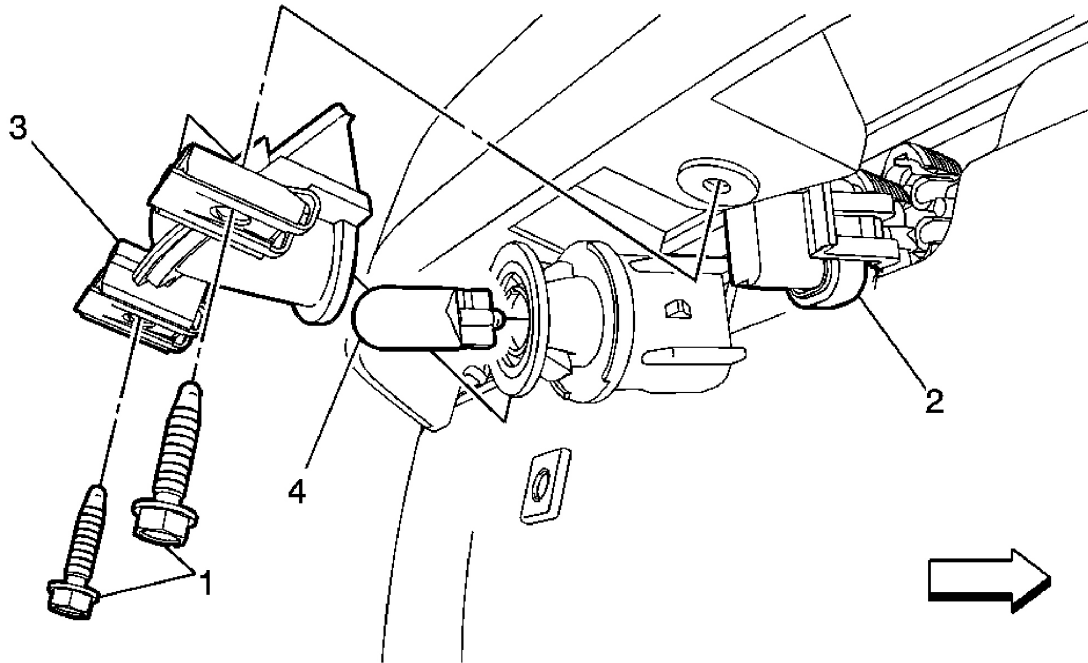


Fig. 159: License Lamp Replacement
 Courtesy of GENERAL MOTORS CORP.

Rear License Lamp Replacement (Base)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> .	
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
1	Screws, License Plate Lamp (Qty: 2) Tighten: 2 N.m (18 lb in)
2	Connector, License Plate Lamp Assembly (Qty: 1) Tip: Pull electrical harness slightly rearward to disconnect from socket.
3	Lamp Assembly - Rear License Plate (Qty: 1) Tip: Hold socket and rotate lens counterclockwise to remove from socket.
4	Bulb, Rear License Plate Lamp (Qty: 1) Tip: Hold socket and pull bulb straight outward.

REAR LICENSE LAMP REPLACEMENT (WITH BRM AND RHD)

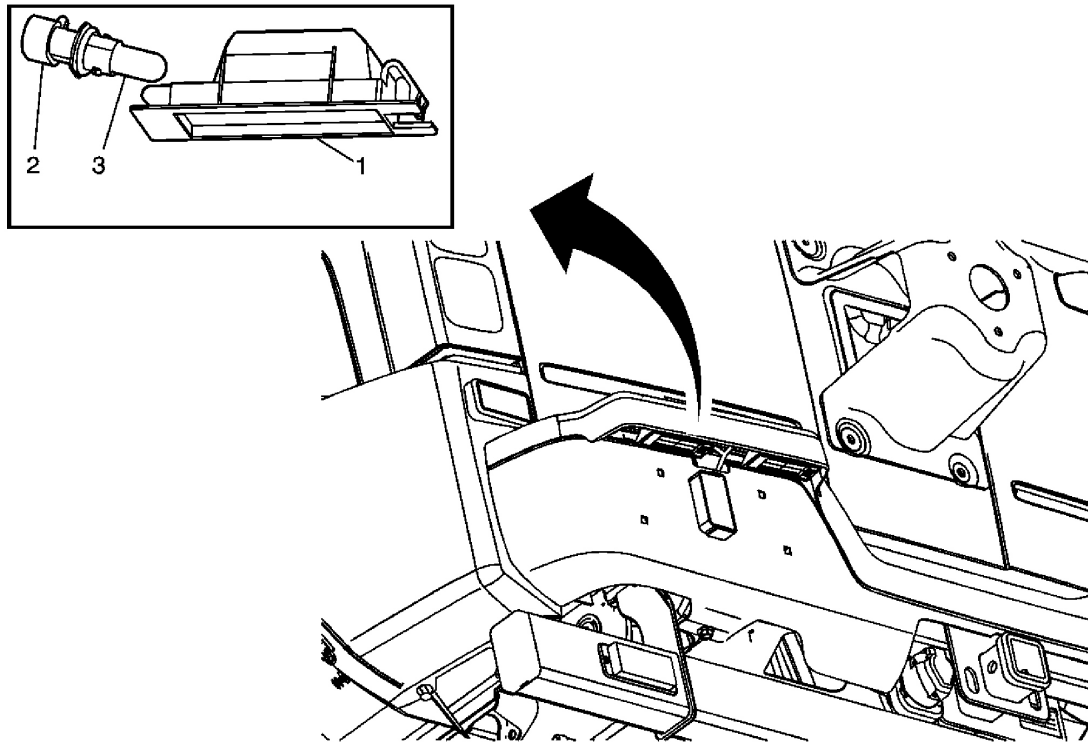


Fig. 160: Replacing Rear License Lamp
 Courtesy of GENERAL MOTORS CORP.

Rear License Lamp Replacement (with BRM and RHD)

Callout	Component Name
1	Rear License Plate Lamp Assembly Tip: Depress the very small lamp tabs inboard towards the outboard side of the vehicle in order to release the lamps from the impact bar bumper cover.
2	License Plate Lamp Socket Tip: Twist the lamp socket electrical connector counter-clockwise and remove from the lens housing.
3	License Plate Lamp Bulb

TAIL LAMP REPLACEMENT

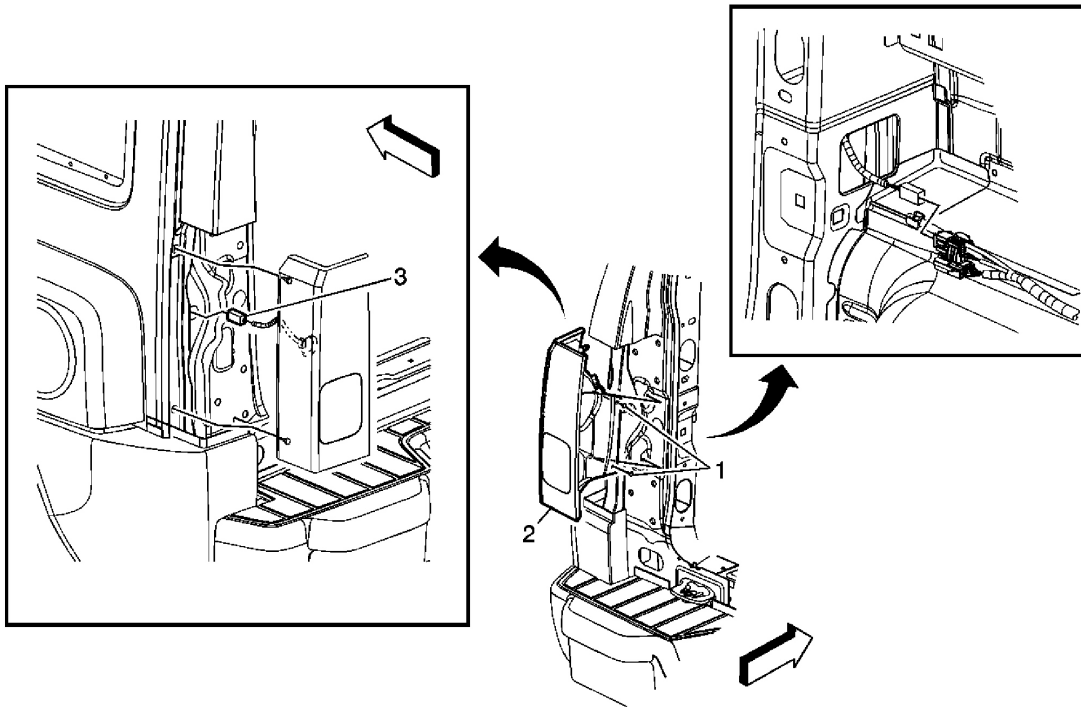


Fig. 161: Tail Lamp Assembly Replacement
 Courtesy of GENERAL MOTORS CORP.

Tail Lamp Replacement

Callout	Component Name
<p>NOTE: Refer to <u>Fastener Notice</u> .</p>	
<p>Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u>. Preliminary Procedure: Open the endgate in order to access the left rear taillamp assembly screws.</p>	
1	<p>Screws, Tail Lamp Housing (Qty: 2) Tip: Pull lamp housing outward in order to release the exterior side pin retainers. Tighten: 3 N.m (26 lb in)</p>
2	<p>Lamp Assembly, Tail Tip: Disconnect the bulb sockets from the lamp housing by rotating counterclockwise.</p>
3	<p>Connector, Tail Lamp Electrical</p>

TAIL LAMP BULB REPLACEMENT

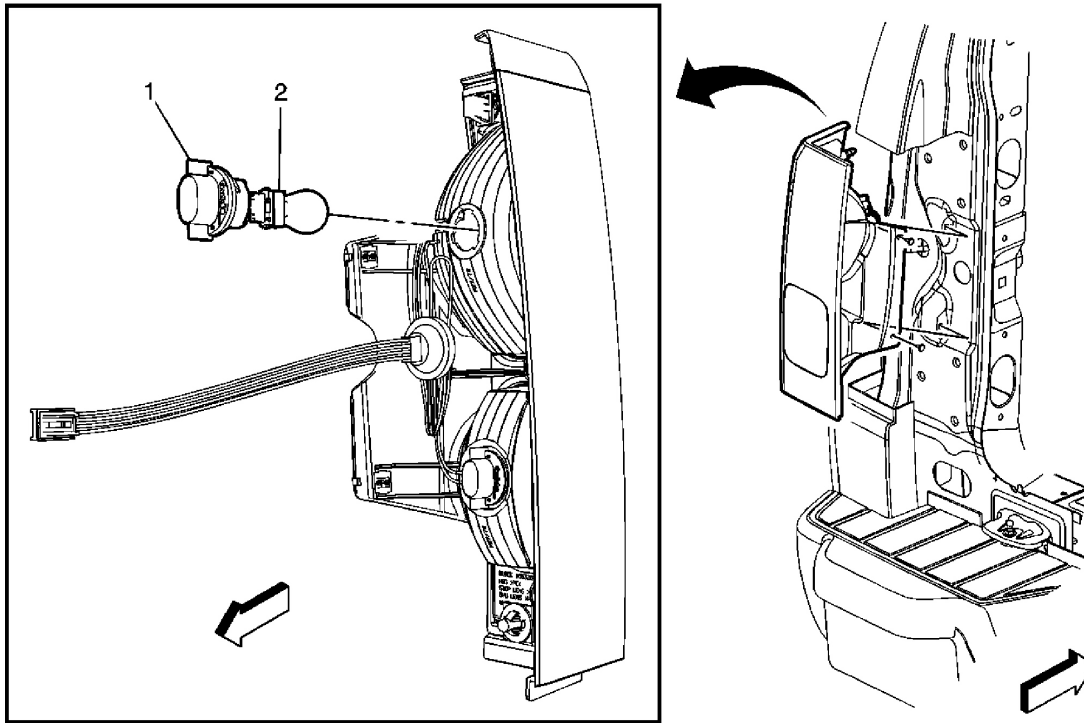


Fig. 162: Replacing Tail Lamp Bulb
 Courtesy of GENERAL MOTORS CORP.

Tail Lamp Bulb Replacement

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedure:	
Remove either the LR or RR tail lamp assembly. Refer to <u>Tail Lamp Replacement</u> .	
1	Directional Lamp Bulb Socket Tip: Turn the lamp socket counter-clockwise a quarter turn to remove from the tail lamp.
2	Directional Lamp Bulb Tip: Pull the bulb straight from the lamp socket.

DESCRIPTION AND OPERATION

EXTERIOR LIGHTING SYSTEMS DESCRIPTION AND OPERATION

The exterior lighting system consists of the following lamps:

- The headlamps
- The daytime running lamps (DRL)
- The front fog lamps
- The park, tail and marker lamps
- The position lamps (export)
- The rear fog lamps (export)
- The turn signal lamps
- The stop lamps
- The backup lamps
- The clearance and identification Lamps
- The off road lamps

The door lock switch backlighting of the interior door lock switches are also supplied voltage by the courtesy lamp supply voltage circuit and will only operate while the park lamps are illuminated. This circuit is diagnosed as part of the exterior lamp lighting system.

Headlamps

Major components of this system are the body control module (BCM), headlamp relay, beam select relay, ambient light sensor, headlamp and panel dimmer switch, turn signal/multifunction switch, park brake switch and the low and high beam headlamps.

The headlamps may be turned ON in 2 different ways. First, when the driver places the headlamp switch in the ON position, normal operation occurs. Second, when the headlamp switch is placed in the AUTO position, automatic lamp control (ALC) operation occurs. During ALC control, the headlamps will be OFF in daylight conditions or in low/high beam operation in low light conditions.

On the Global export vehicles, the headlamps will only operate when the engine is running and the gear selector is out of the PARK position.

The headlamp relay receives battery positive voltage directly from the battery. The BCM supplies a ground signal to the headlamp relay for normal headlight operation. The BCM also supplies voltage to the beam select relay coil for high beam headlight operation. When the driver places the headlamp switch in the ON position and the dimmer switch is in the low beam position, the headlamp relay supplies current flow through the left and right low beam headlamp fuses to both low and high beam headlamps. Both low beam headlights are grounded through the beam select

relay. When activated, the dimmer switch sends a ground signal to the BCM in the high beam position and a momentary ground signal in the flash-to-pass (FTP) position from G106. The BCM then energizes the beam select relay which switches the headlamp grounds from the low beam headlight bulbs to the high beam headlight bulbs illuminating the high beam headlights. With the headlights in the low beam position, the high beams may be momentarily turned ON or flashed by activating the FTP portion of the switch.

The instrument panel cluster (IPC) illuminates the high beam indicator when the BCM detects that the high beams are requested. The IPC receives a class 2 message from the BCM requesting illumination.

The Headlamps On at Exit and Perimeter Lighting modes can be adjusted using the steering wheel controls to select the desired function as displayed in the driver information center (DIC). The Headlamps On at Exit selection will allow the driver to customize the period of time that the headlamps remain illuminated upon exiting the vehicle. This period can be adjusted from 0-180 seconds. The Perimeter Lighting feature allows the driver to select if they desire the headlamps and backup lamps to illuminate when the door UNLOCK button on the key fob is activated. This feature can be turned ON or OFF by using the DIC steering wheel control buttons.

Daytime Running Lamps (DRL)

The ambient light sensor is a light sensitive transistor that varies its voltage signal to the body control module (BCM) in response to changes to the outside (ambient) light level. When the BCM receives this signal, it will either turn ON the daytime running lamps (DRL) or the headlamps for auto headlamp operation. Any function or condition that turns ON the headlights will cancel the DRL operation. With the headlight switch in the AUTO position, the headlights will either be turned ON or OFF, after an approximate 8 second delay depending on whether daylight or low light conditions are sensed. When the ambient light sensor signals the BCM for DRL operation in daylight conditions, the BCM illuminates the low beam headlamps at a reduced intensity utilizing the DRL relay. The DRL will operate when the ignition switch is in the RUN position, the headlamp and panel dimmer switch is in the AUTO position, the gear selector is not in the PARK position and the parking brake is released. When these conditions have been met and the ambient light sensor indicates daytime conditions, the DRL will illuminate.

DRL operation can be temporarily disabled by momentarily placing the headlamp switch in the OFF position. This will cancel DRL operation until the switch is momentarily placed in the OFF position again or until the next ignition key cycle occurs. Canadian requirements prohibit disabling DRL operation therefore the Canadian export vehicles are not equipped with the DRL defeat feature. Global export vehicles are not equipped for DRL operation and therefore also do not have the DRL disable feature on the switch.

Headlamp Leveling (Export)

The HD LMP LEVELING fuse in the underhood fuse block supplies battery positive voltage to the headlamp leveling switch and headlamp leveling motors. When the driver places the headlamp leveling switch in any position, a signal is sent to the headlamp leveling motors to adjust the headlight aiming to one of three positions. Ground for the headlamp leveling switch is provided by the BCM and G105 supplies ground to the headlamp leveling motors. When position III is selected on the headlamp leveling switch, the headlamps will automatically be illuminated.

Fog Lamps

With both the ignition switch in the RUN position and the park lamps or low beam head lamps ON, the fog lights will illuminate when the driver presses the fog lamp switch. The FOG LP fuse in the underhood fuse block supplies battery positive voltage to the fog lamps. With the headlamp switch is in either the park or headlamp position and the fog lamp switch is pressed, the body control module (BCM) will energize the fog lamp relay control circuit. The current flow is from the fog lamp relay to both front fog lamps and to ground G105. The state of the fog lamps, either ON or OFF, will remain the same until the fog lamp switch is pressed again or the ignition switch is cycled OFF and ON. Fog lamp operation will be cancelled whenever the park lamps are turned OFF or the high beam headlights have been selected.

The rear fog lamps (export) are located below the rear bumper fascia. The rear fog lamps have a dedicated relay and both the relay control and current flow operate the same as the front fog lamps. The RR FOG fuse in the underhood fuse block supplies voltage to the lamps and G420 supplies ground.

Park, Tail, Marker, License and Clearance Lamps

The park, tail, marker, license and clearance lamps are turned ON when the headlamp switch is placed in the PARK or ON position or anytime the headlights are requested. The underhood fuse block supplies battery positive voltage to both the park lamp relay switch contacts and the park lamp coil circuit. The body control module (BCM) provides a ground or control circuit to the park lamp relay coil circuit. When the park lamps are requested ON, the BCM energizes the park lamp relay. Current flow is from the park lamp relay to the individual park lamp circuit fuses and to their respective park, tail, marker, license and clearance lamps. The front park, marker, tail, license and clearance lamps are grounded at G105, G350, G340 and G420. If the driver places the headlight switch in the ON position after the ignition switch has been turned OFF, the park, tail, marker, license and clearance lamps will remain ON until turned OFF or the battery runs dead.

Position Lamps (Export)

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The front and rear position lamps are turned ON when the headlamp switch is placed in the position lamps position. The underhood fuse block supplies battery positive voltage to the position lamp relay switch contacts and the position lamp relay coil circuit. The body control module (BCM) provides a ground control circuit to the position lamp relay coil circuit. When the position lamps are requested ON, the BCM energizes the position lamp relay and the park lamp relay. Current flow is from the relays to the front and rear position lamps. The front position lamps are grounded at G105 and the rear position lamps are grounded at G420. If the headlamps are activated by either the headlamp switch or the BCM in Automatic Lamp Control (ALC) mode, just the front position lamps will be disabled. The rear position lamps remain illuminated and now act as the tail lamps.

Turn Signal Lamps

The FRT/TRN/HAZ/CRTSY/MIRR and REAR/TRN/HAZ fuses in the underhood fuse block supplies battery positive voltage to the body control module (BCM). When the turn signal switch is placed in either the left or right position, a signal is sent to the BCM to illuminate the desired turn signal lamps. The BCM has an internal flasher that sends an ON-OFF voltage signal to either the left or right turn signals and their instrument panel cluster (IPC) indicator. When the hazard switch is pressed, a separate ground signal is sent to the BCM to activate and flash all turn signal lamps including both IPC turn indicators. The front and rear turn signals are grounded at G105, G350 and G340.

The IPC illuminates the TURN SIGNAL ON indicator in the driver information center (DIC) when the IPC determines that the turn signal is active for more than 1.2 km (0.75 mi). The BCM sends a class 2 message to the radio in order to activate the audible warning.

Stop Lamps

The STOP fuse in the underhood fuse block supplies battery positive voltage to the normally open stop lamp switch. When the driver presses the brake pedal, the switch contacts close and battery positive voltage is supplied to the body control module (BCM), electronic brake control module (EBCM), powertrain control module (PCM) and the center high mounted stop lamp (CHMSL) which is grounded at G350. The EBCM may also supply battery positive voltage to activate the stop lamps during specific ABS events.

Backup Lamps

The BCK/UP LPS fuse in the underhood fuse block supplies battery positive voltage to the normally open park/neutral position (PNP) switch of a vehicle equipped with an automatic transmission or the backup lamp switch if equipped with a manual transmission. When the driver places the gear selector lever in the REVERSE position, the switch closes and the current flow is from the switch to the backup lamps. The backup lamps are grounded at G350 and G340.

Off-Road Lamps

The off-road lamps are available in several configurations with lights mounted on the roof and on the front brush guard. The lamps are controlled by a single, rocker type switch, located on the instrument panel. When the switch is closed, voltage is supplied to the relays on the off-road lamps relay control circuit. When the relays are energized, voltage is supplied to the off-road lamps.

INTERIOR LIGHTING SYSTEMS DESCRIPTION AND OPERATION**Interior Lamps**

The interior lighting consists of the following 2 groups. This first group includes lamps that illuminate the interior and may not be dimmed.

- The dome lamp
- The footwell lamps
- The reading lamps
- The vanity mirror lamps

Courtesy Lamps

The courtesy lamps include the reading lamps, footwell lamps and dome lamps. The cargo lamp, footwell lamps and dome lamp may be manually turned ON or OFF by placing the interior lamp switch in the ON or OFF position. When the driver places the dome lamp defeat switch in the OFF position, these courtesy lamps will be disabled. If a door is opened, the courtesy lamps will illuminate. After all the doors have been closed, the courtesy lamps will remain illuminated approximately 15 seconds after the last door closes. The courtesy lamps will also turn ON prior to any door being opened and will remain illuminated approximately 40 seconds when the driver removes the ignition key. The body control module (BCM) will immediately turn OFF the courtesy lamps if a door lock command is received with all of the doors closed or if the ignition switch is turned to either the ON or RUN position. Individual power and ground circuits to each lamp are supplied by the BCM except for the reading and vanity mirror lamps which are grounded at G106.

The reading and vanity mirror lamps can be activated individually by the switches integrated within the dome/reading lamp and vanity mirror. Voltage is supplied by the BCM through the dome lamp circuit with the lamps being grounded at G106.

Keyless Entry Interior Illumination

When the driver uses the door key in order to unlock the doors, the body control module (BCM)

receives a door unlock signal. The BCM must have inputs that indicate that the ignition switch is OFF, the courtesy lamp switch is OFF and all the doors are closed. The BCM will then illuminate the interior lamps. The courtesy lamps will remain illuminated for approximately 15 seconds after the door is closed. If the door locks are activated to the LOCK position or if the ignition switch is turned to either the RUN or CRANK position, the courtesy lamps will turn OFF immediately.

When the driver uses the remote function actuator transmitter to unlock the doors or presses the panic button, the BCM will keep the courtesy lamps ON for approximately 15 seconds. If the door locks are activated to the UNLOCK or LOCK position or if the ignition switch is turned to either the RUN or CRANK position, the courtesy lamps will turn OFF immediately. The BCM will also keep the courtesy lamps ON for approximately 40 seconds after an alarm event is completed.

Battery Rundown Protection/Inadvertent Power

The body control module (BCM) inadvertent power courtesy lamps supply voltage circuit provides battery positive voltage to all of the interior courtesy lamps. In the event that any of these lamps were to remain illuminated for a period of more than 20 minutes with the ignition switch in the OFF position, the BCM will deactivate the inadvertent power courtesy lamps supply voltage circuit to prevent a total battery discharge condition. Only when the ignition switch is cycled back to the RUN position will the BCM reset the internal timer and reactivate the inadvertent power courtesy lamps supply voltage circuit.

The BCM also utilizes the inadvertent power courtesy lamps supply voltage circuit as a courtesy lamp request signal circuit when none of the lamps in the circuit are illuminated. When a reading lamp switch is activated, the BCM receives the request for lamp illumination and switches to supplying voltage to the inadvertent power courtesy lamps supply voltage circuit.

Interior Switch and Control Illumination

The second group includes lamps which illuminate the interior switches, controls and displays that may or may not be dimmed. This group may use a combination of LED, incandescent lamps and vacuum fluorescent (VF) displays.

The door lock and window switches are supplied voltage through the FRT PRK LAMPS fuse and cannot be dimmed. These lamps will be illuminated at full intensity whenever the park lamps are ON.

This second list of components are supplied voltage through the body control module (BCM) and can be dimmed.

- Hazard switch

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- Headlamp and panel dimmer switch
- HVAC control head assembly
- Instrument panel cluster (IPC) via class 2 signal
- Radio
- Rear window wiper/washer switch
- Accessory switch
- Sunroof switch

When the ignition switch is turned to the RUN position, the radio VF displays turn ON at maximum brightness. When the park lamps are ON, all dimmable incandescent back lighting illuminate at the dimming level indicated by the I/P dimmer switch and all the other back lighting lamps illuminate at full intensity. At the same time all VF displays dim to match the indicated dimming level. The panel dimmer switch potentiometer is an input to the BCM. When the driver selects a dimming setting by moving the I/P dimming switch potentiometer, all dimmable incandescent back lighting lamps are provided with a specific voltage. When the I/P dimmer switch is moved from MIN to MAX, all VF displays, as well as all dimmable incandescent back lighting respond from minimum intensity to maximum brightness in response to the I/P dimmer switch. The grounding for all of the incandescent back lighting lamps is provided by G105 and G106.