

Lighting Systems

Specifications

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Dome Lamp Bolt/Screw	1.7 N·m	15 lb in
Fog Lamp to Headlamp Bolt	10 N·m	89 lb in
Fog Lamp Bolt (Pontiac)	15 N·m	11 lb ft
Fog Lamp Nut (Pontiac)	8 N·m	71 lb in
Fog Lamp to Bracket Bolt (Chevrolet)	10 N·m	89 lb in
Front Fascia Reinforcement Nut	10 N·m	89 lb in
Headlamp Bezel Screw (Pontiac)	1.7 N·m	15 lb in
Headlamp Housing Bracket Bolt	7 N·m	62 lb in
Headlamp Opening Door Bolt/Screw (Pontiac)	2 N·m	18 lb in
Headlamp Switch Bolt	1.9 N·m	17 lb in
High-Mount Stoplamp Screw	1.7 N·m	15 lb in
Inside Handle Bezel Bolt/Screw	1.4 N·m	12 lb in
Parking and Turn Signal Lamp Bolt	2.5 N·m	22 lb in
Park and Turn Signal Lamp Nut	4.0 N·m	35 lb in
Park and Turn Signal Lamp Bolt (Trans Am)	2.5 N·m	22 lb in
Rear Fog Lamp Nut (Export)	1.4 N·m	12 lb in
Rear License Lamp Screw	1.9 N·m	17 lb in
Rear Sidemarker Lamp Screw	1.4 N·m	12 lb in
Side Marker Lamp Screw	1.4 N·m	12 lb in
Taillamp Nut	3 N·m	27 lb in

Bulb Usage

Type of Lamp	Trade Number
Exterior Lamp Usage	
Back-up Lamp	3155
Back-up Lamp (Export)	P21W
Fog Lamp (Chevrolet)	894X
For Lamp (Export)	H3
Fog Lamp (Pontiac)	880
Front Side Marker Lamp	194
Headlamp Low Beam (Chevrolet)	9006
Headlamp High Beam (Chevrolet)	9005
Headlamp Low Beam (Pontiac)	H4703
Headlamp High Beam (Pontiac)	H4701
High-Mount Stoplamp (Chevrolet Export)	W16W
High-Mount Stoplamp (Chevrolet and Pontiac Domestic)	921
License Lamp	194
License Lamp (Export-Europe)	W3W
Park and Turn Signal (Chevrolet)	3157k
Park and Turn Signal (Pontiac)	3157NAK
Park and Turn Signal (Export)	P27/7WLL
Rear Fog Lamp (Export)	P21W
Rear Sidemarker Lamp	194
Side Repeater Lamp (Export)	W5W
Taillamp, Stop/Tail	3057

Bulb Usage (cont'd)

Type of Lamp	Trade Number
Taillamp, Stop/Tail (Export)	P21/W5
Taillamp, Stop, Turn Signal (Pontiac)	3057
Taillamp, Turn Signal (Chevrolet)	3057
Taillamp, Turn Signal (Export)	P21/W5
Taillamp (Fill In)	194
Taillamp (Fill in) (Export)	W5W
Interior Lamp Usage	
Ashtray Lamp	194
Automatic Transmission Indicator Lamp	73
Dome Lamp	906
Front Side Door Courtesy Lamp	74
Heater and Air Conditioning Control Lamp	37
Instrument Cluster Lamp	161
Instrument Panel Compartment Lamp	194
Reading Lamp	212-2
Rear Compartment Lamp (Convertible)	562
Rear Courtesy Lamp (Convertible)	562
Turn Signal Indicator Lamp	161
Warning/Indicator (Chevrolet)	161
Warning/Indicator (Excluding Turn Signal Indicator) (Pontiac)	PC74

GM SPO Group Numbers

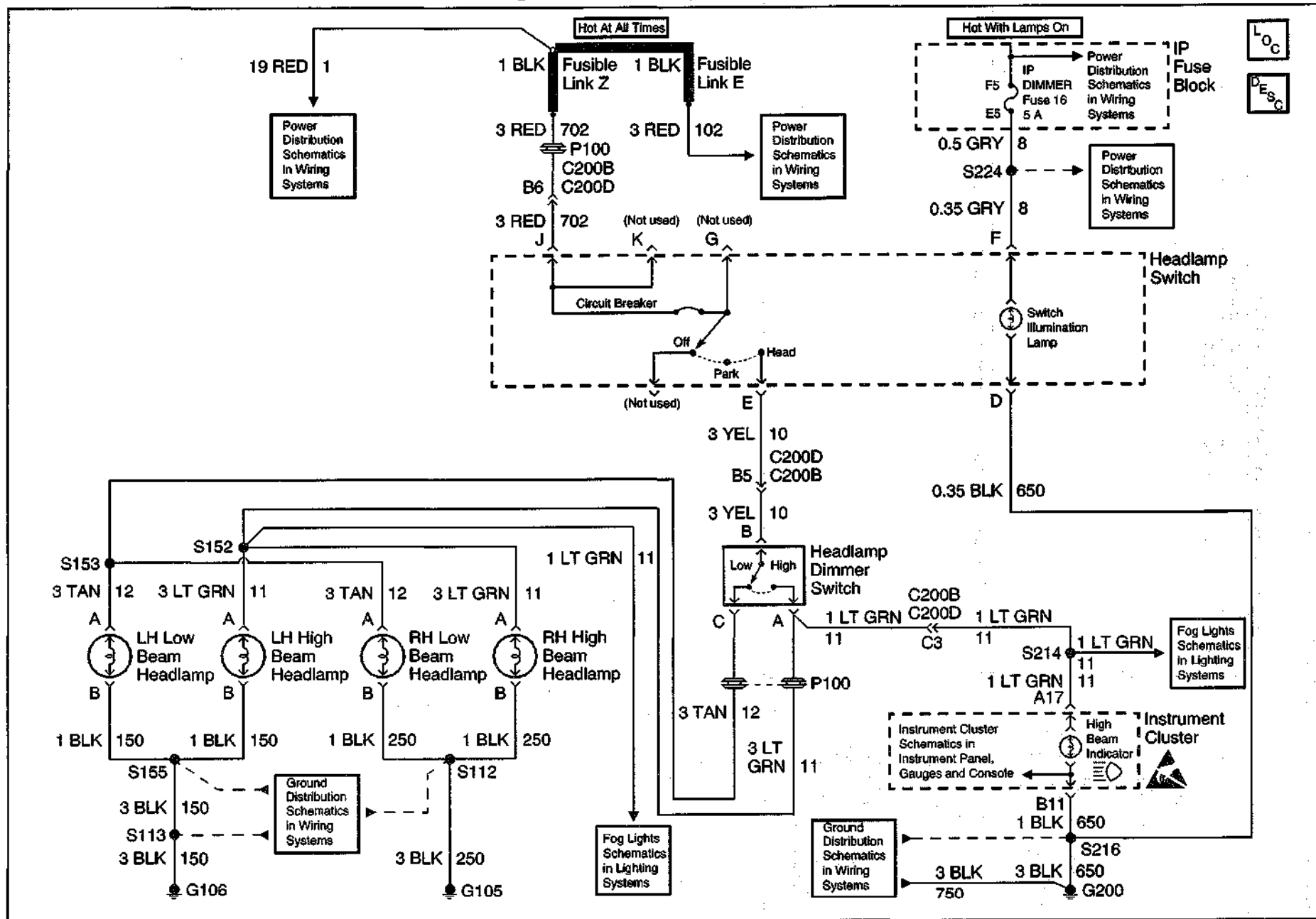
Application	GM SPO Group Number
Backup Lamp	2.679
Cargo Lamp	9.988
Foglamp	2.725
Front Parking Lamp	2.585
Headlamp Bezel	2.728
Headlamp Door	2.728
High Mount Stop Lamp	2.679
Instrument Panel Compartment Lamp	10.275
Rear Fog Lamp	2.679
Rear License Lamp	2.700
Repeater Lamp	2.585
Tail Lamp	2.679
Under Hood Lamp	8.890

Schematic and Routing Diagrams

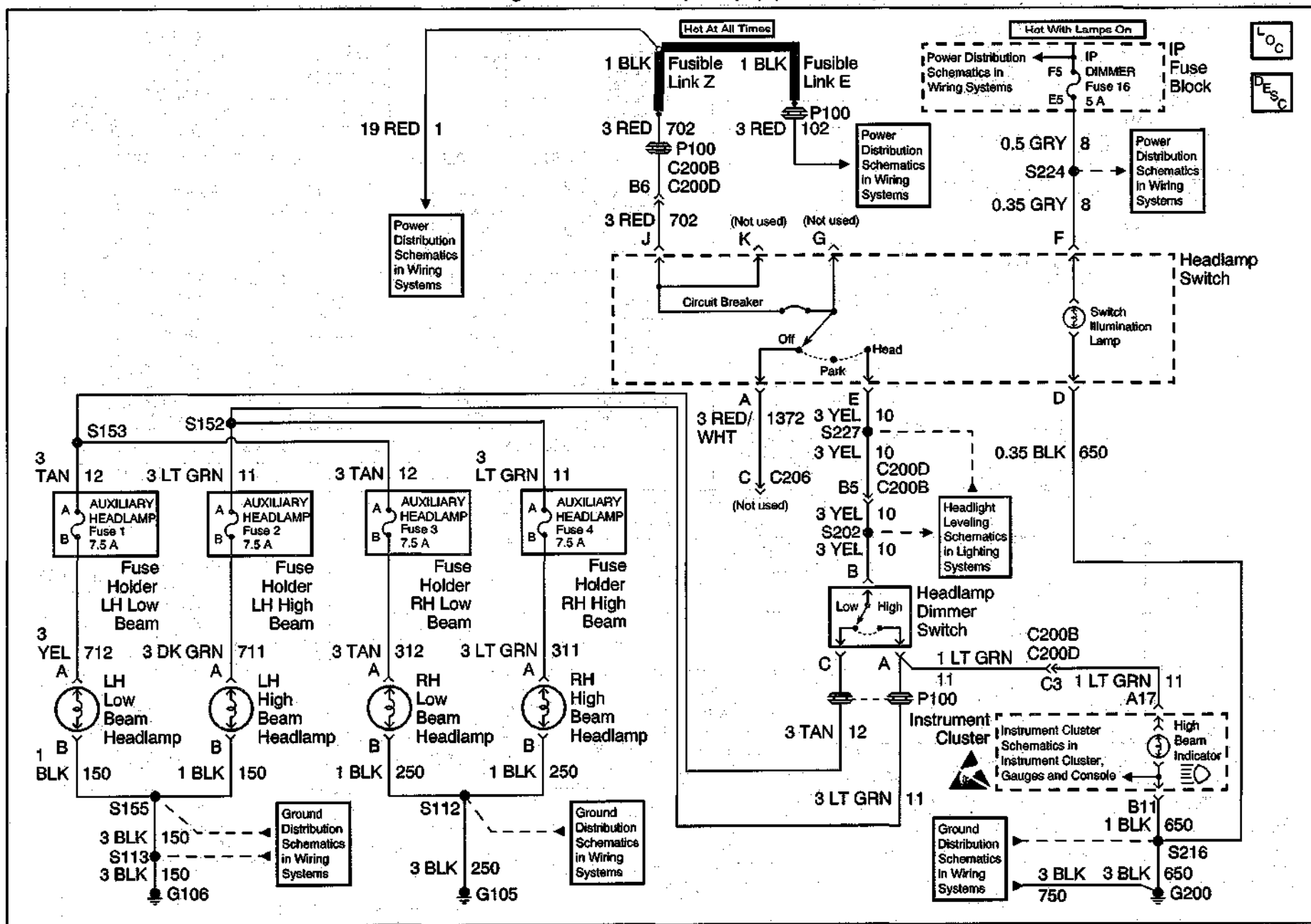
Lighting Systems Schematic Icons

Icon	Icon Definition
 19384	Refer to <i>ESD Notice</i> in Cautions and Notices.
 19386	Refer to <i>SIR Service Precautions Caution</i> in Cautions and Notices

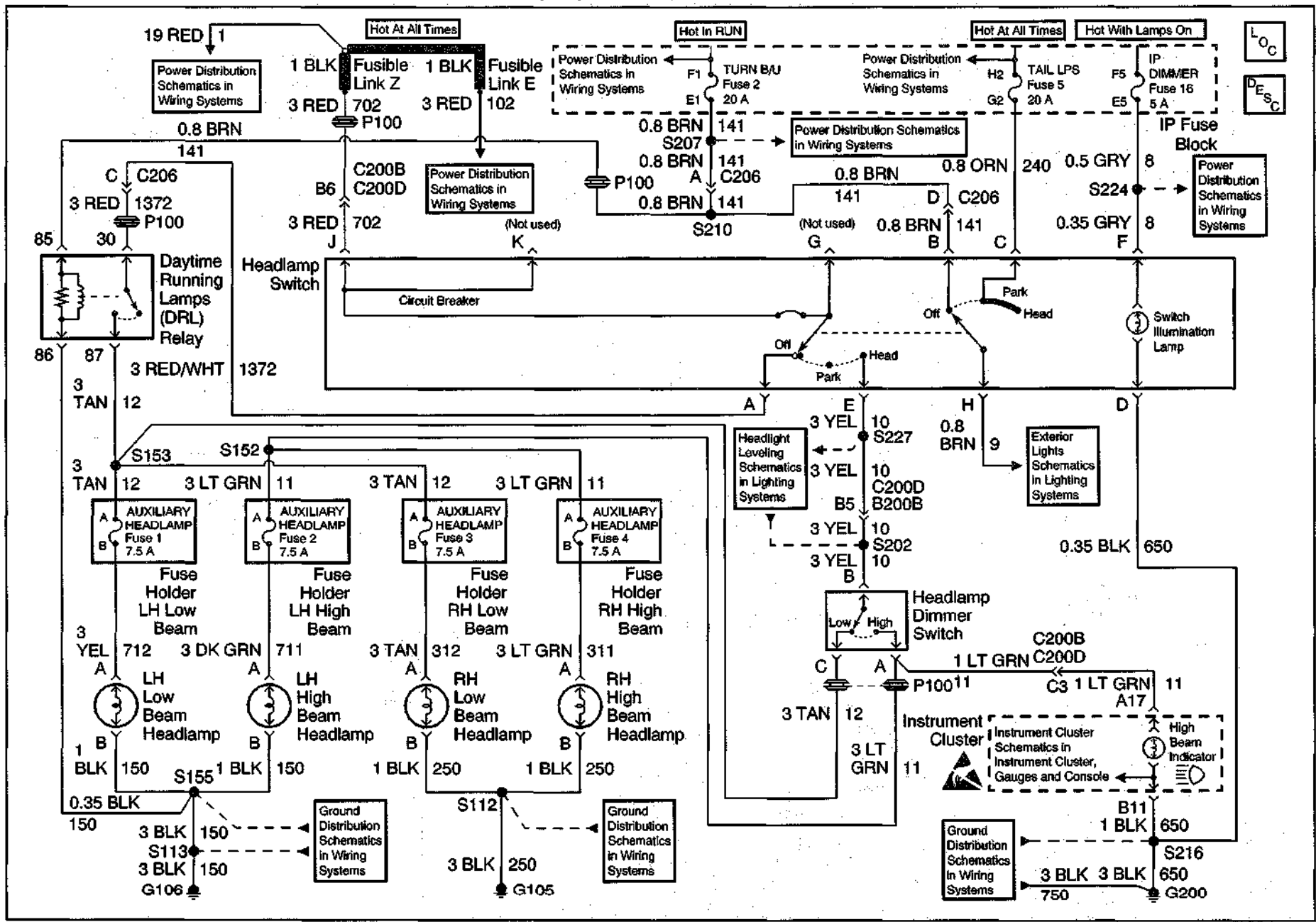
Headlights Schematics (Japan) (Chevrolet)



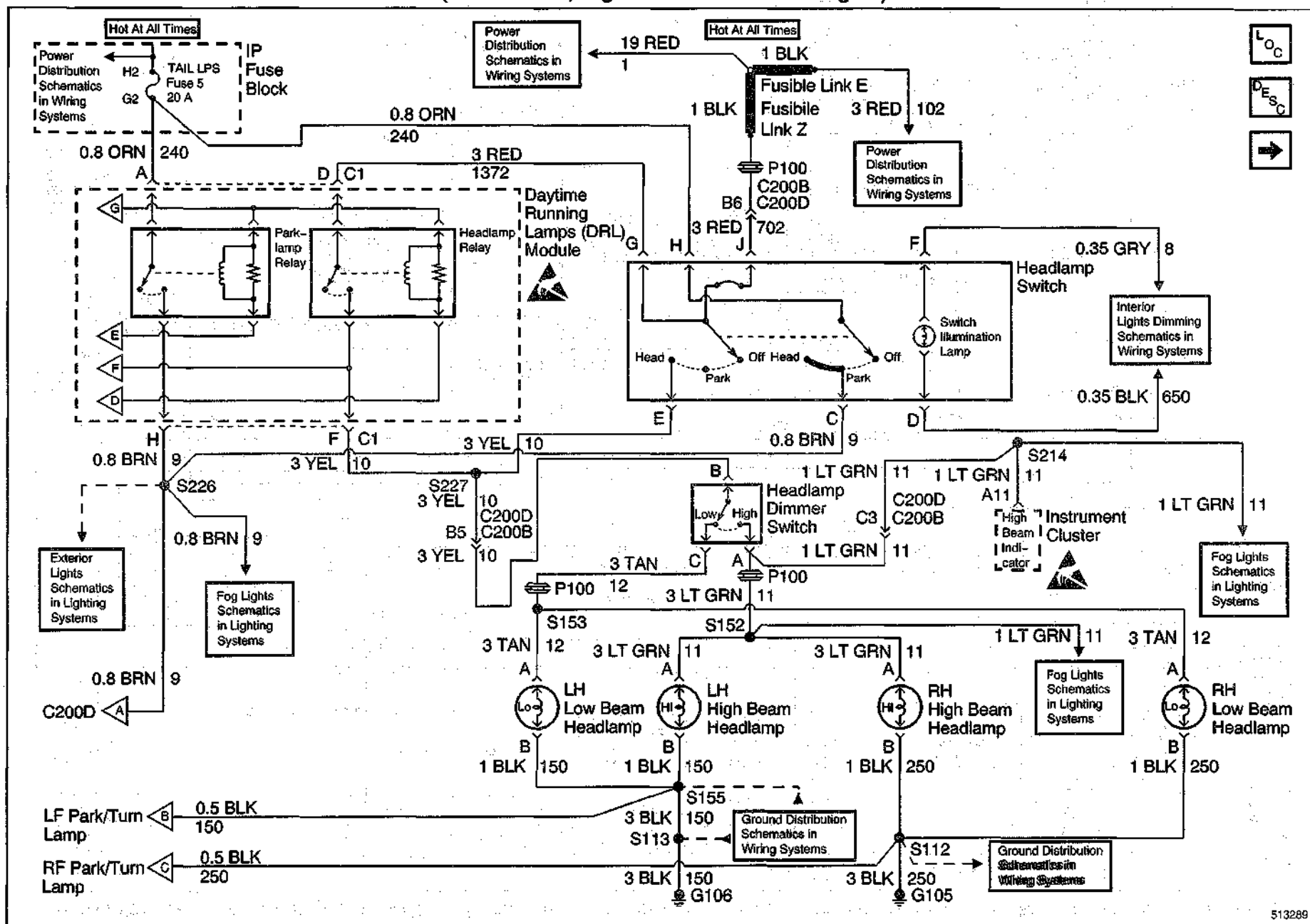
Headlights Schematics (Europe) (Chevrolet)



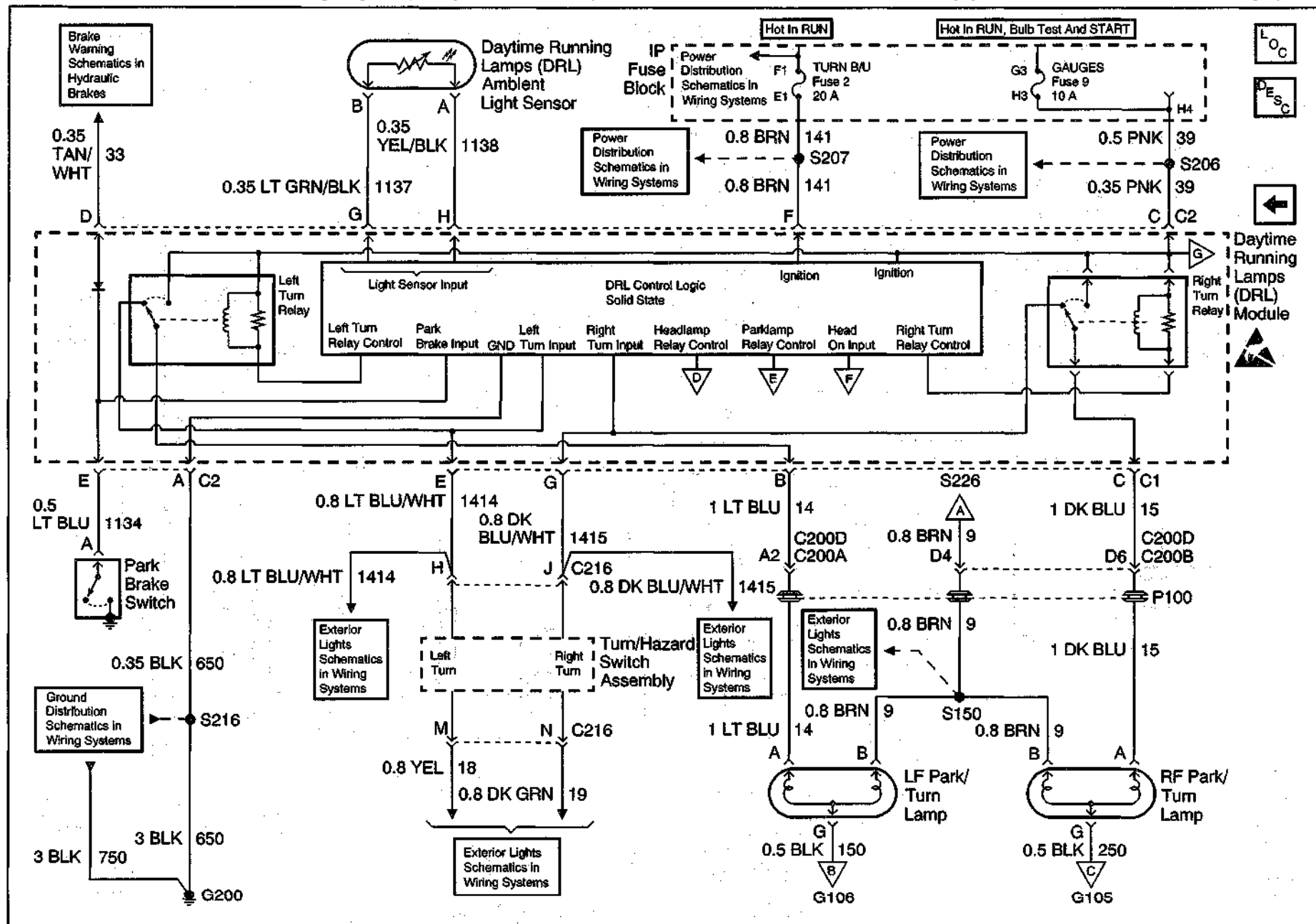
Headlights/Daytime Running Lights (DRL) Schematics (Scandinavia) (Chevrolet)



Headlights/Daytime Running Lights (DRL) Schematics (Chevrolet: Domestic and Gulf States) (DRL Module, High and Lowbeam Headlights)



Headlights/Daytime Running Lights (DRL) Schematics (Chevrolet: Domestic and Gulf States) (DRL Module, Park/Turn Lamps)



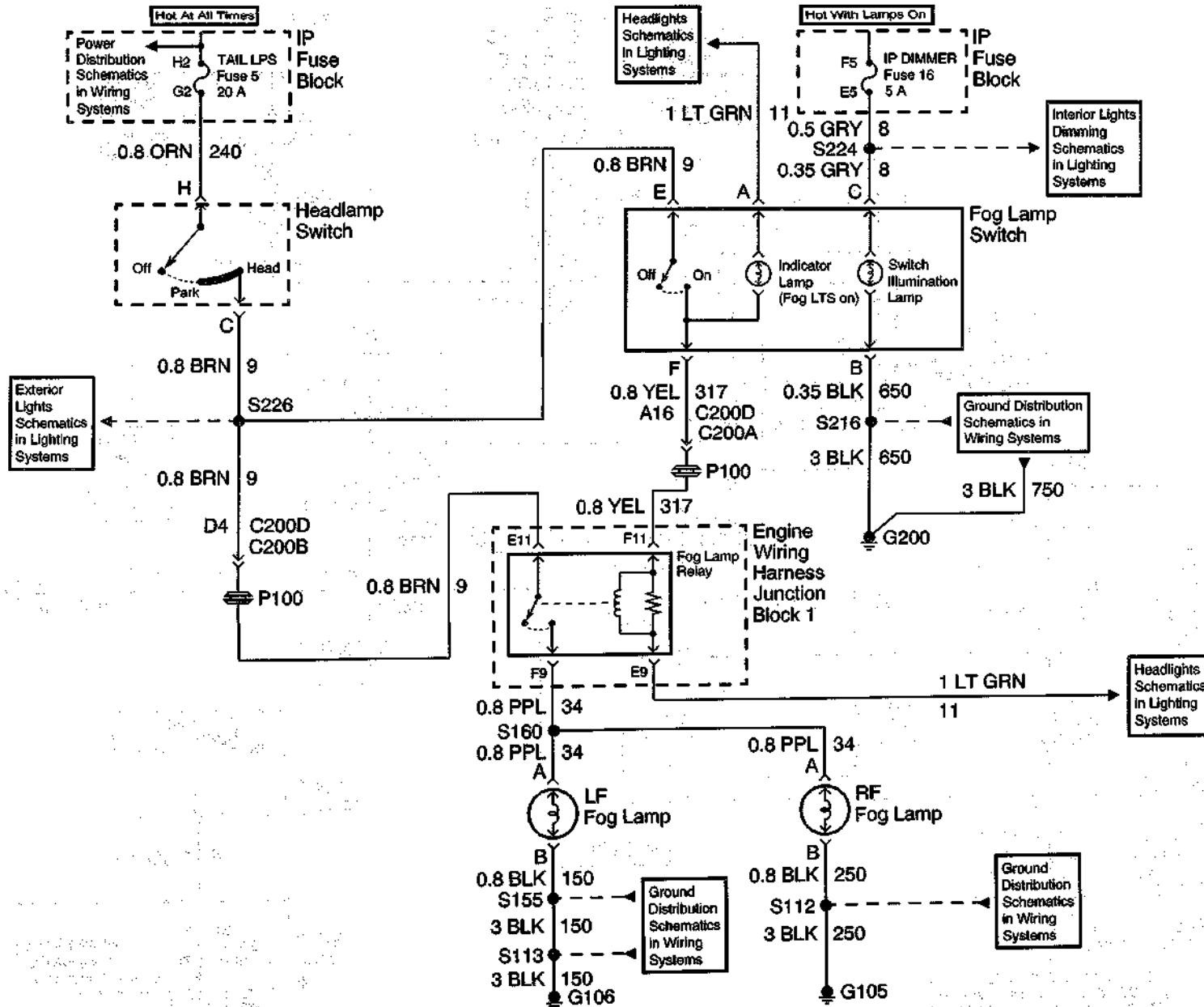
Body and Accessories



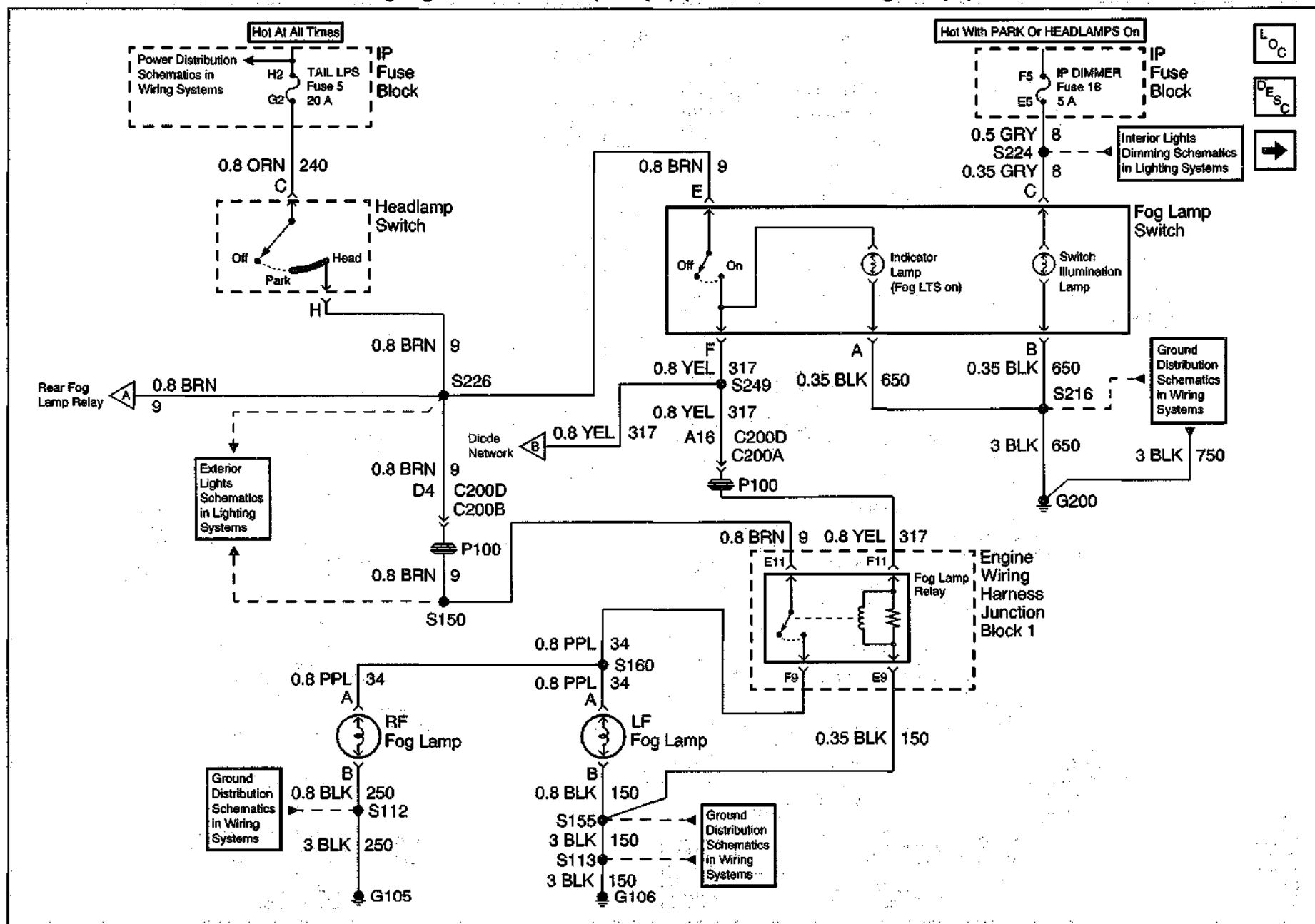
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Fog Lights Schematics (Japan) (Chevrolet)



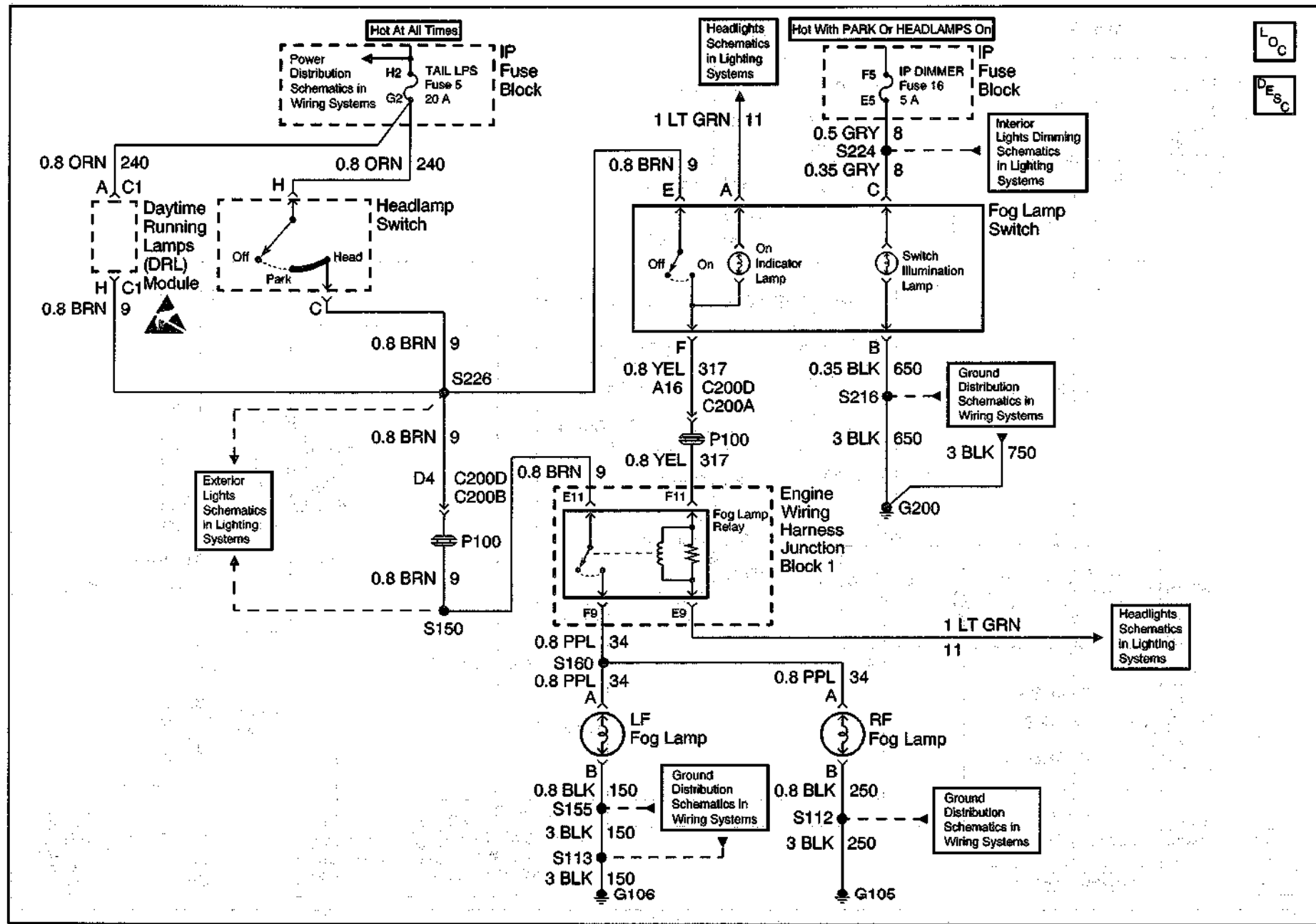
Fog Lights Schematics (Europe) (Chevrolet: Front Fog Lamps)



Body and Accessories



Fog Lights Schematics (Chevrolet: Domestic and Gulf States) (Fog Lamp Switch, Fog Lamps)

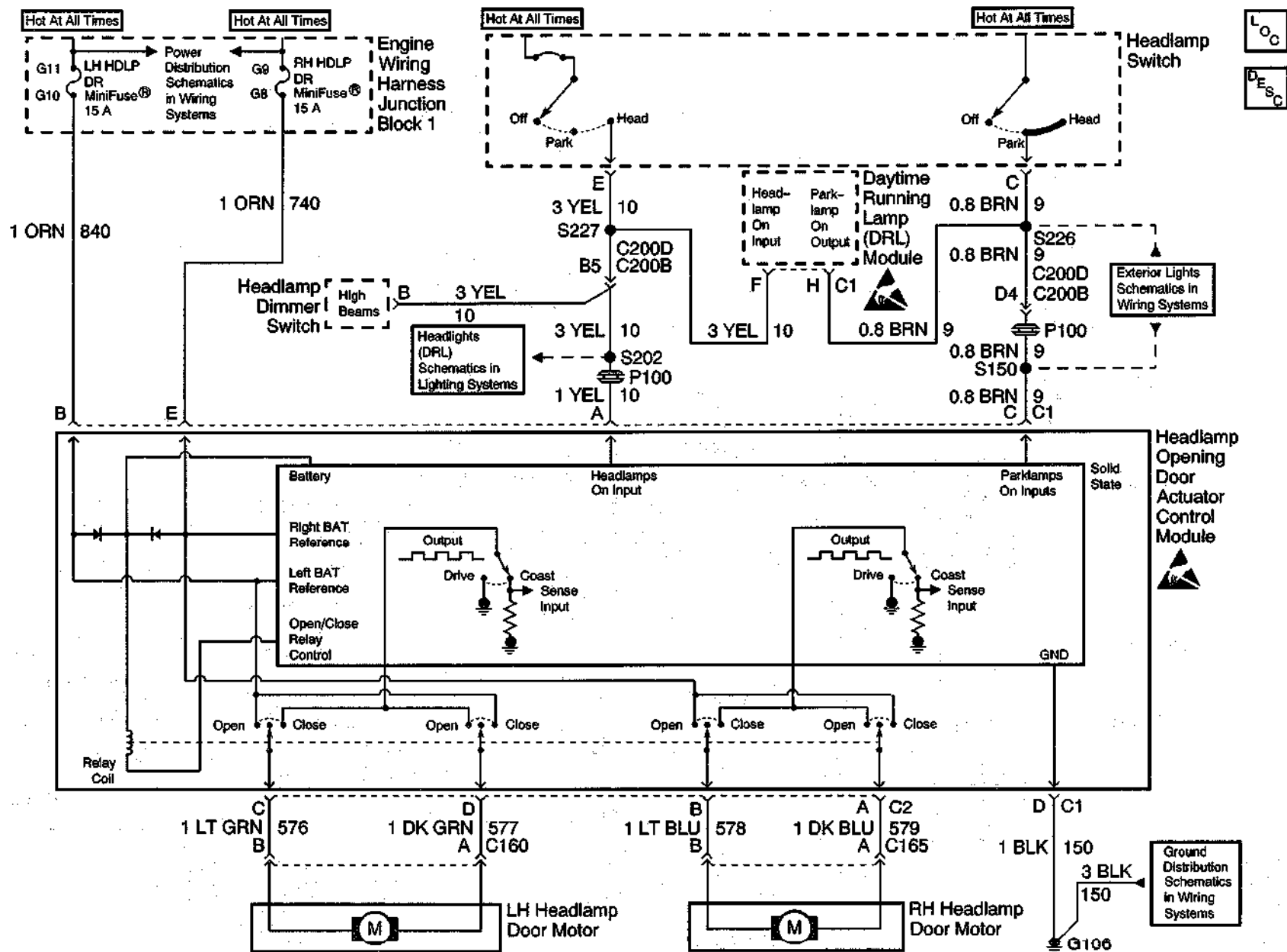


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Body and Accessories



Headlight Doors Schematics (Pontiac) (Headlamp Opening Door Actuator Control Module)

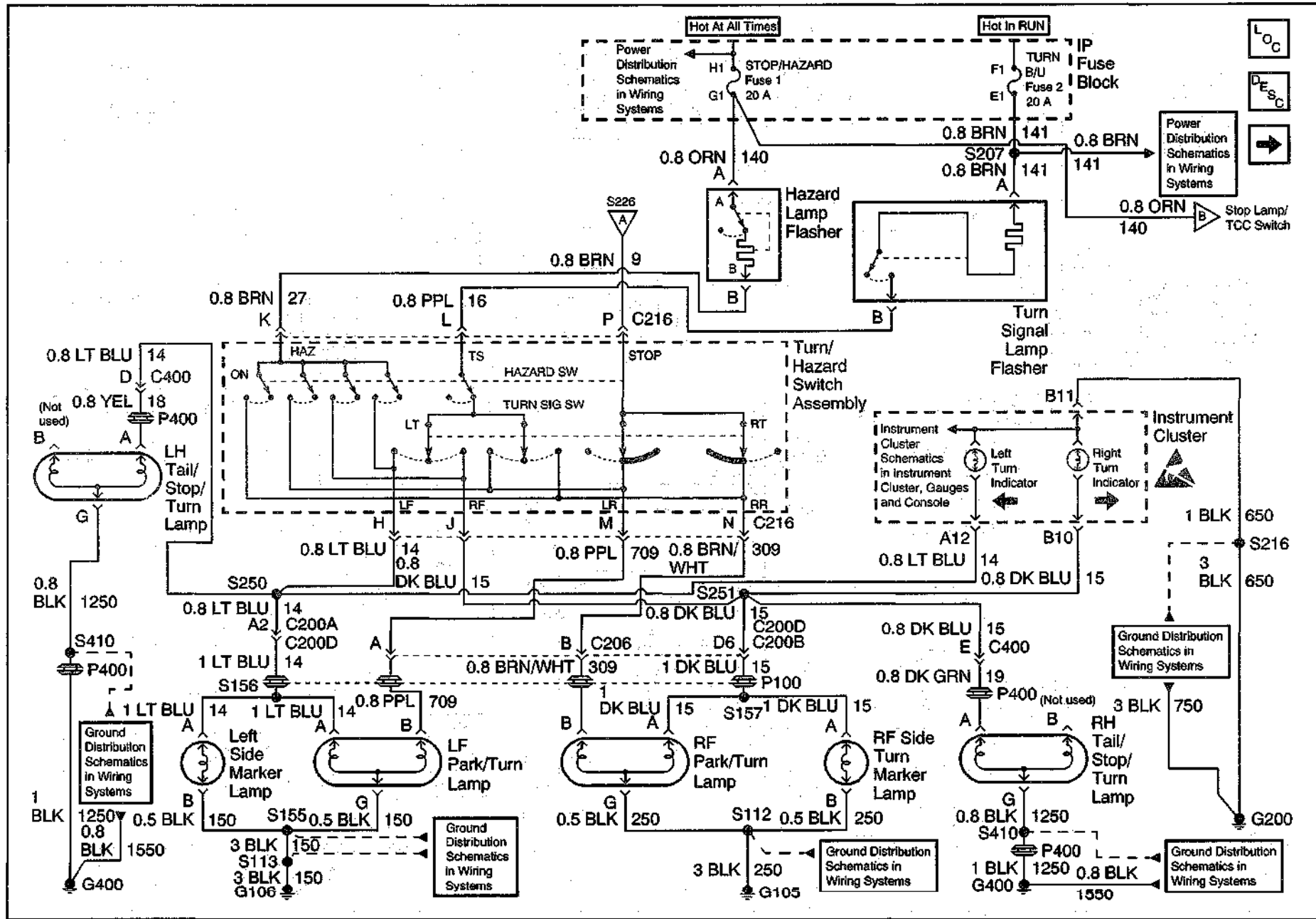


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Body and Accessories



Exterior Lights Schematics (Japan) (Chevrolet: Side Marker Lamps, Park/Turn Lamps)



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Body and Accessories



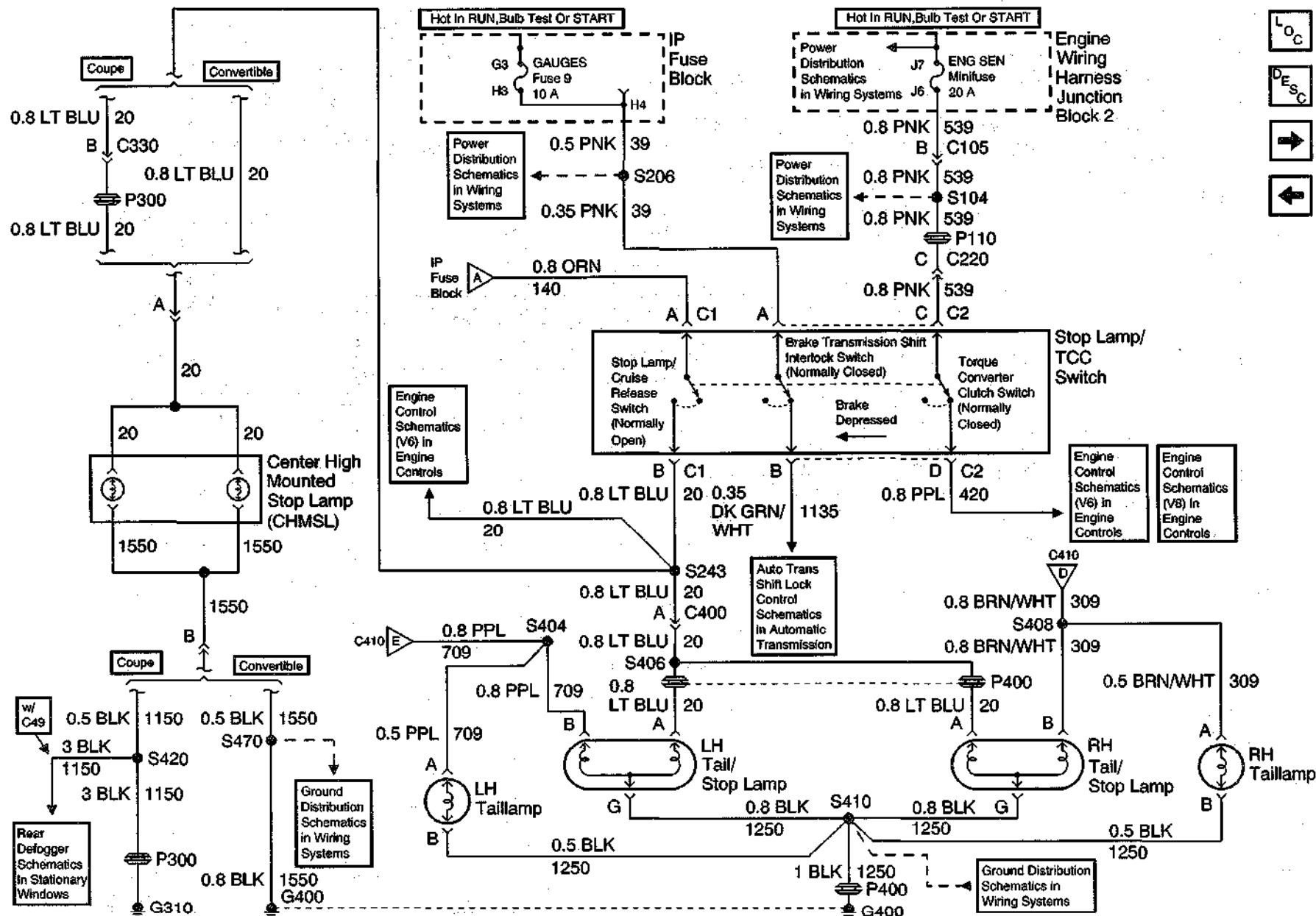
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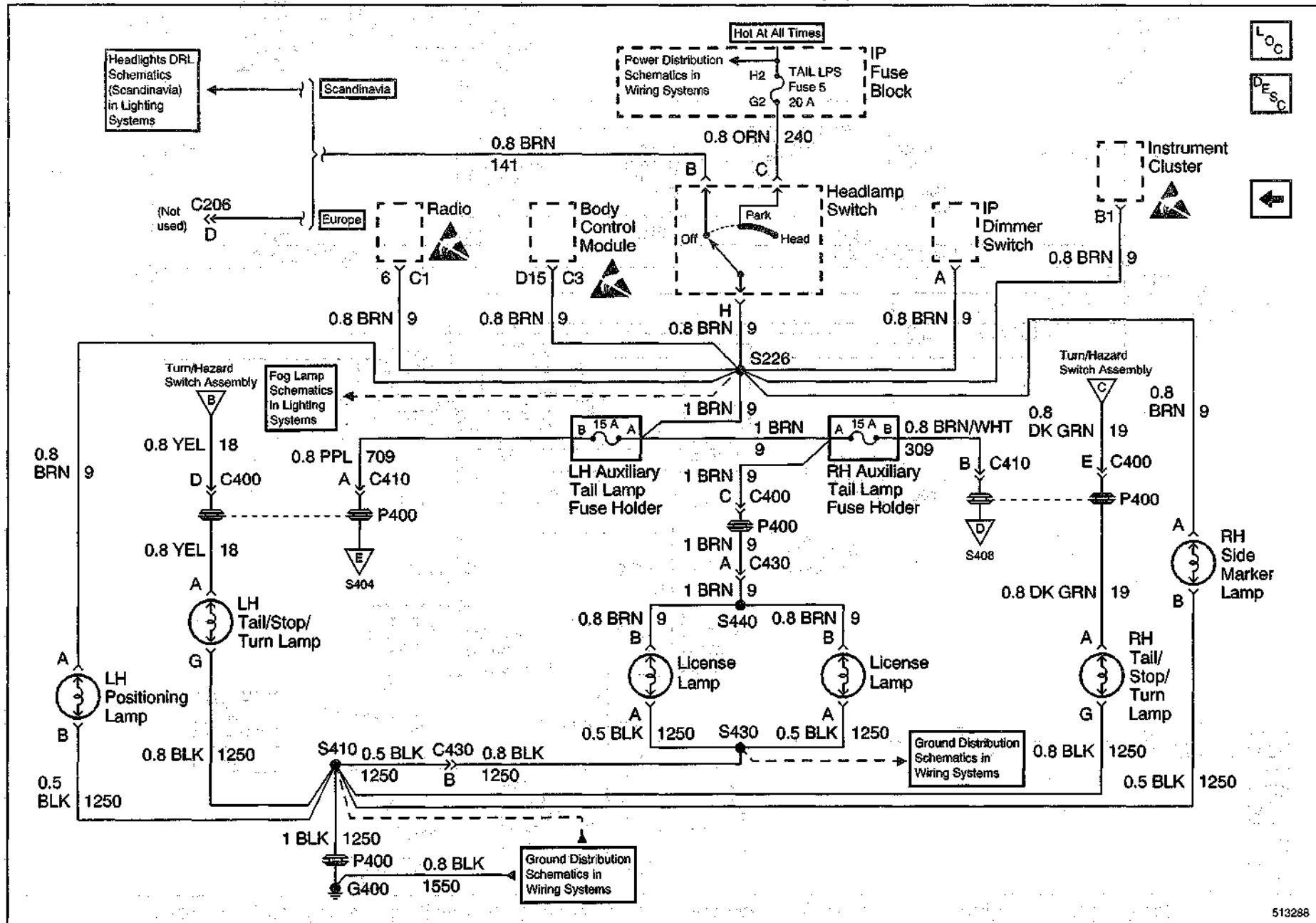
Body and Accessories



Exterior Lights Schematics (Europe and Scandinavia) (Chevrolet: Center High Mounted Stop Lamp, Taillamps, Tail/Stop Lamps)



Exterior Lights Schematics (Europe and Scandinavia) (Chevrolet: Side Marker Lamp, Position Lamp, License Lamps, Tail/Stop/Turn Lamps)



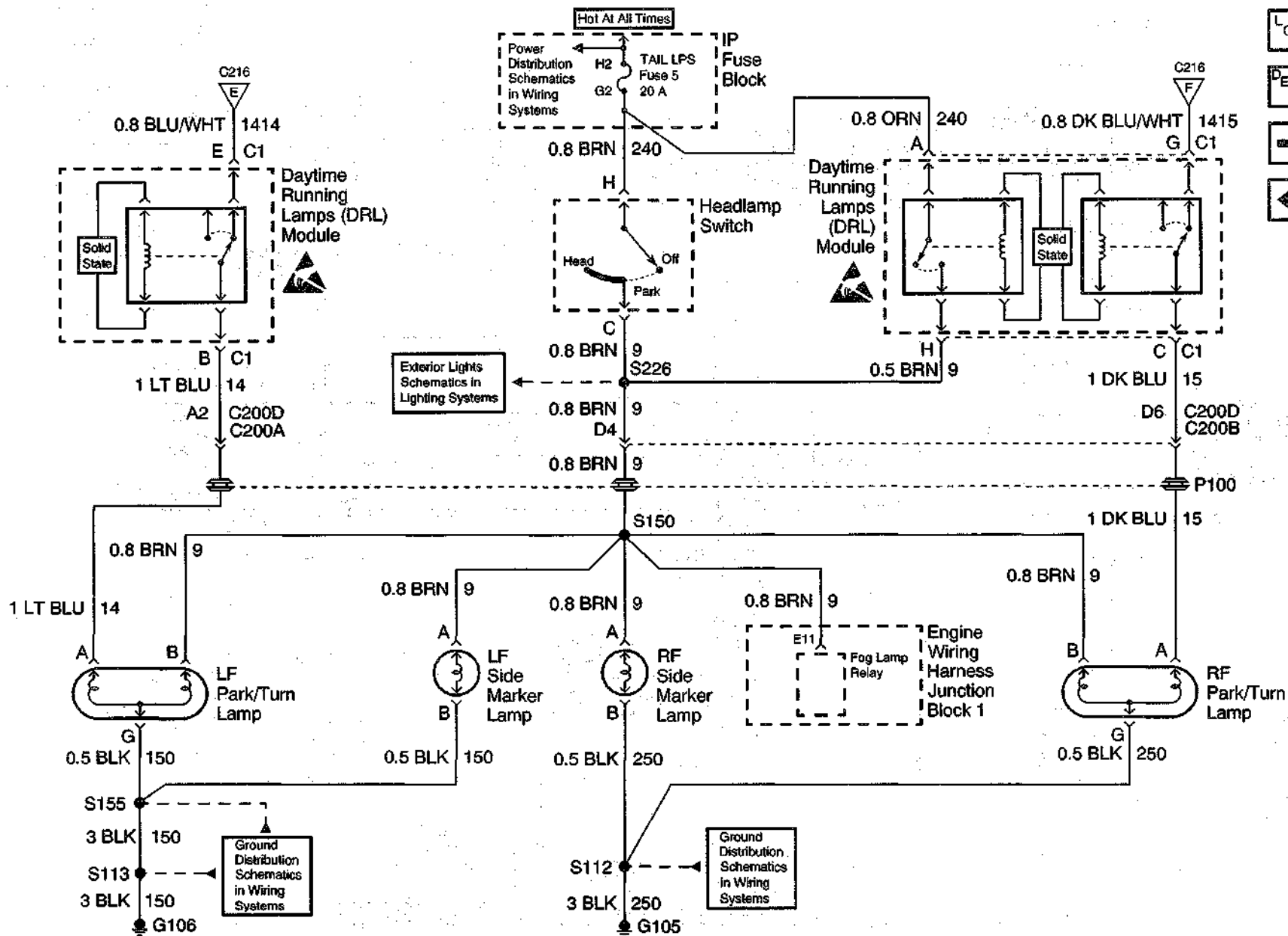
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Body and Accessories

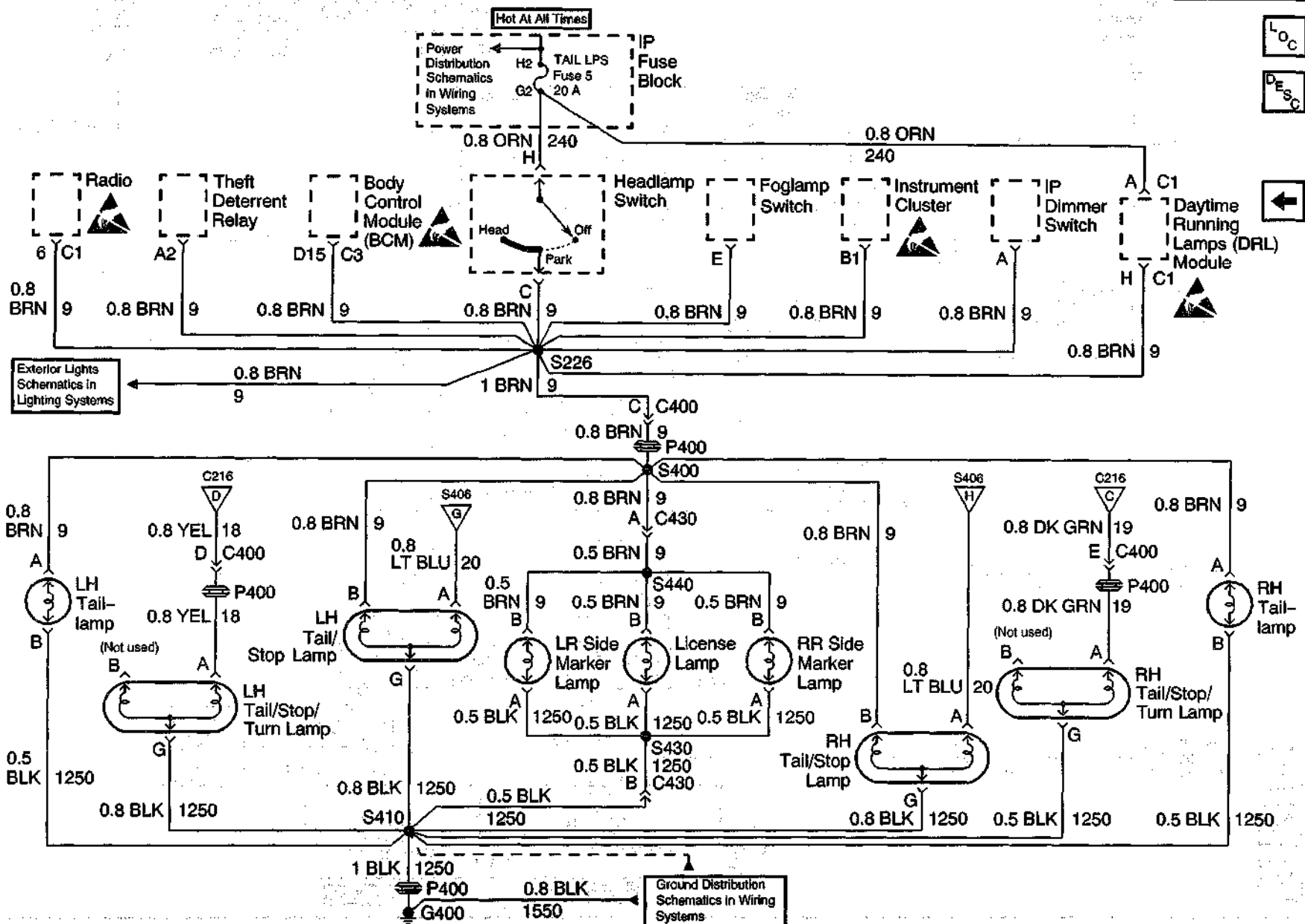


Exterior Lights Schematics (Chevrolet: Domestic and Gulf States) (DRL Module, Side Marker Lamps, Park/Turn Lamps, Fog Lamp Relay)

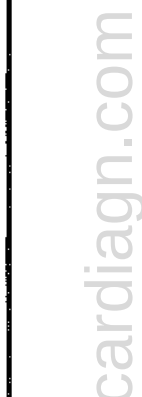


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Exterior Lights Schematics (Chevrolet: Domestic and Gulf States) (Taillamps, Tail/Stop Lamps, Tail/Stop/Turn Lamps, Side Marker Lamps, License Lamp)



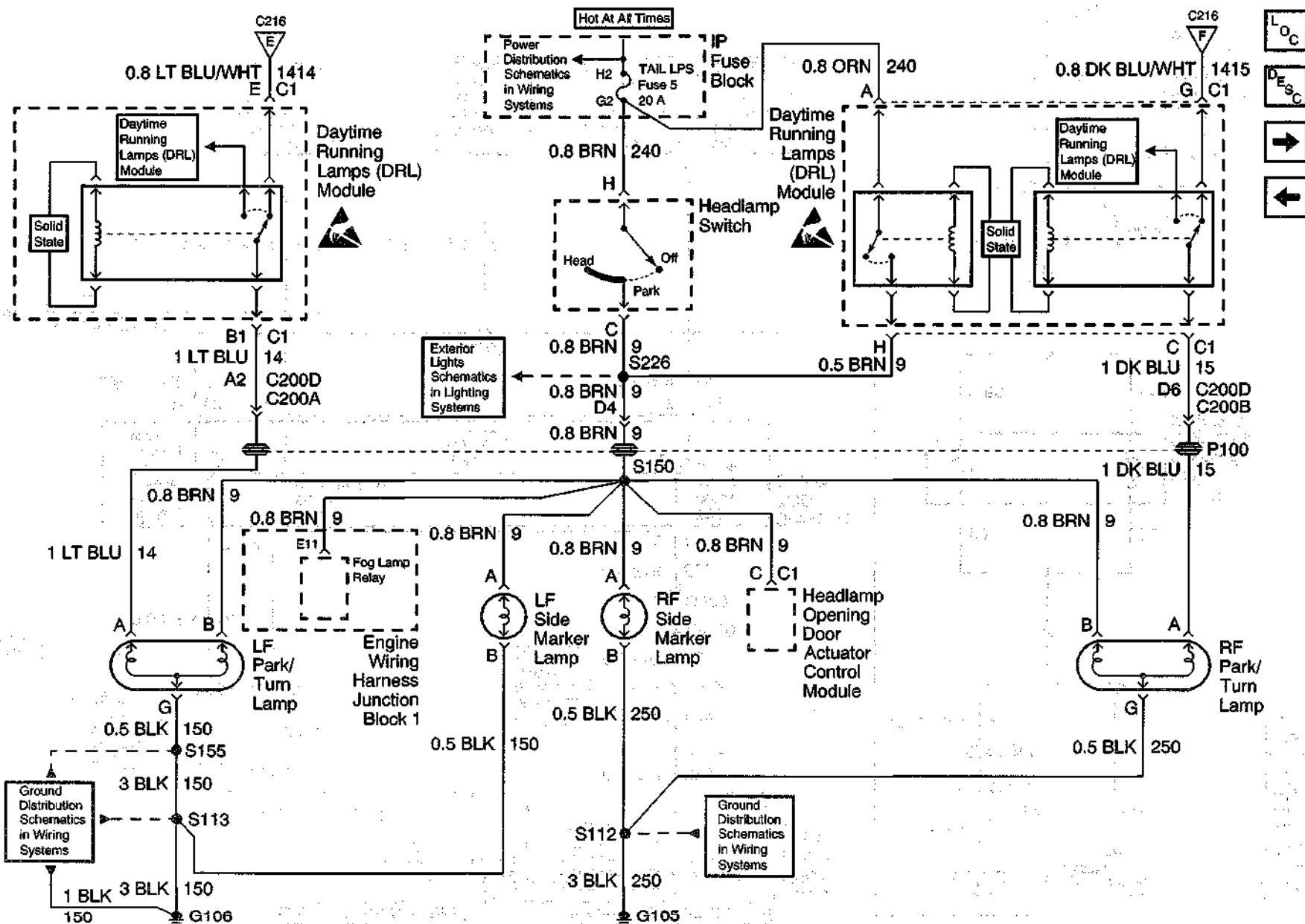
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Body and Accessories



Exterior Lights Schematics (Pontiac) (DRL Module, Side Marker Lamps, Park/Turn Lamps, Fog Lamp Relay)

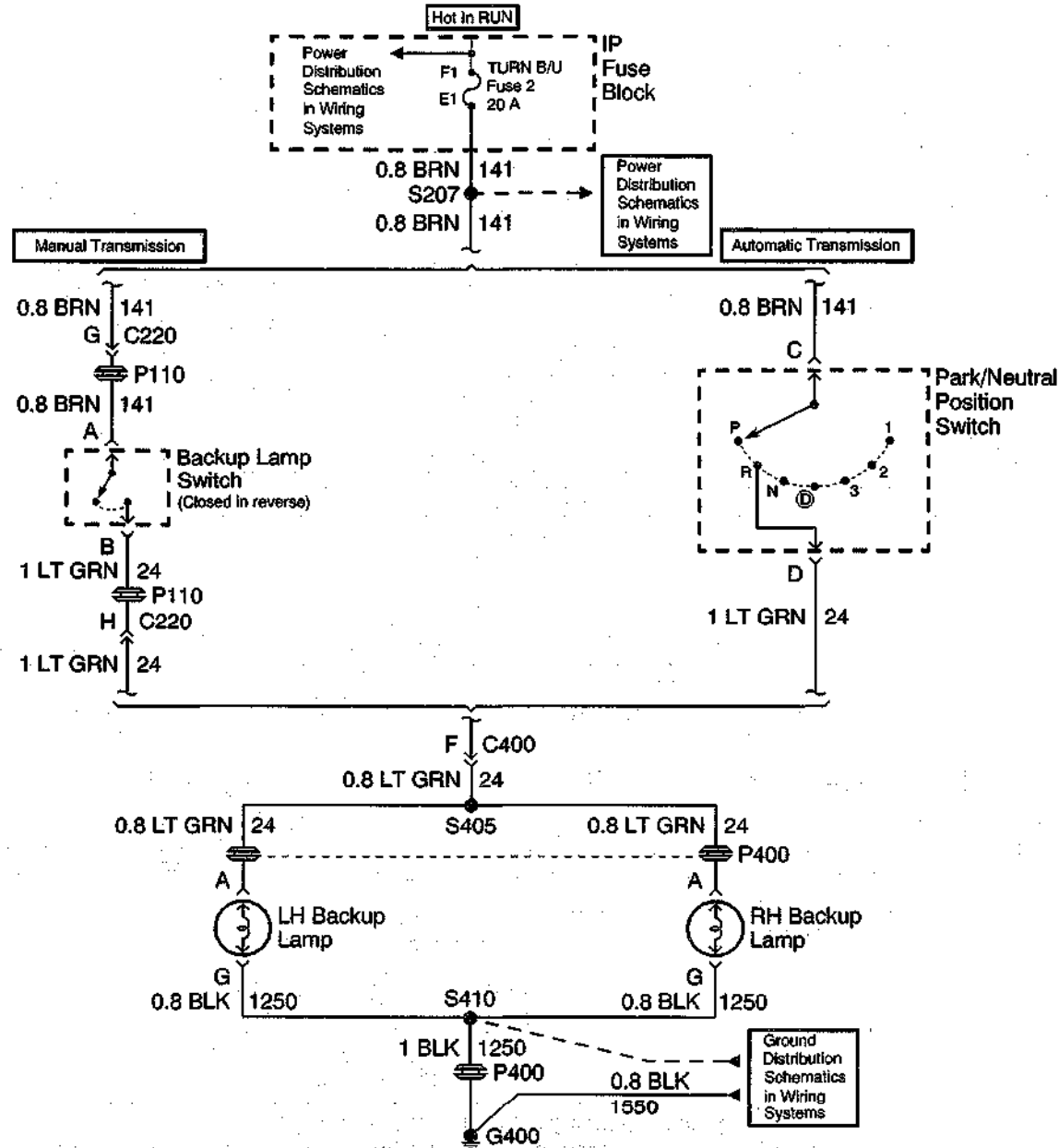


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Body and Accessories

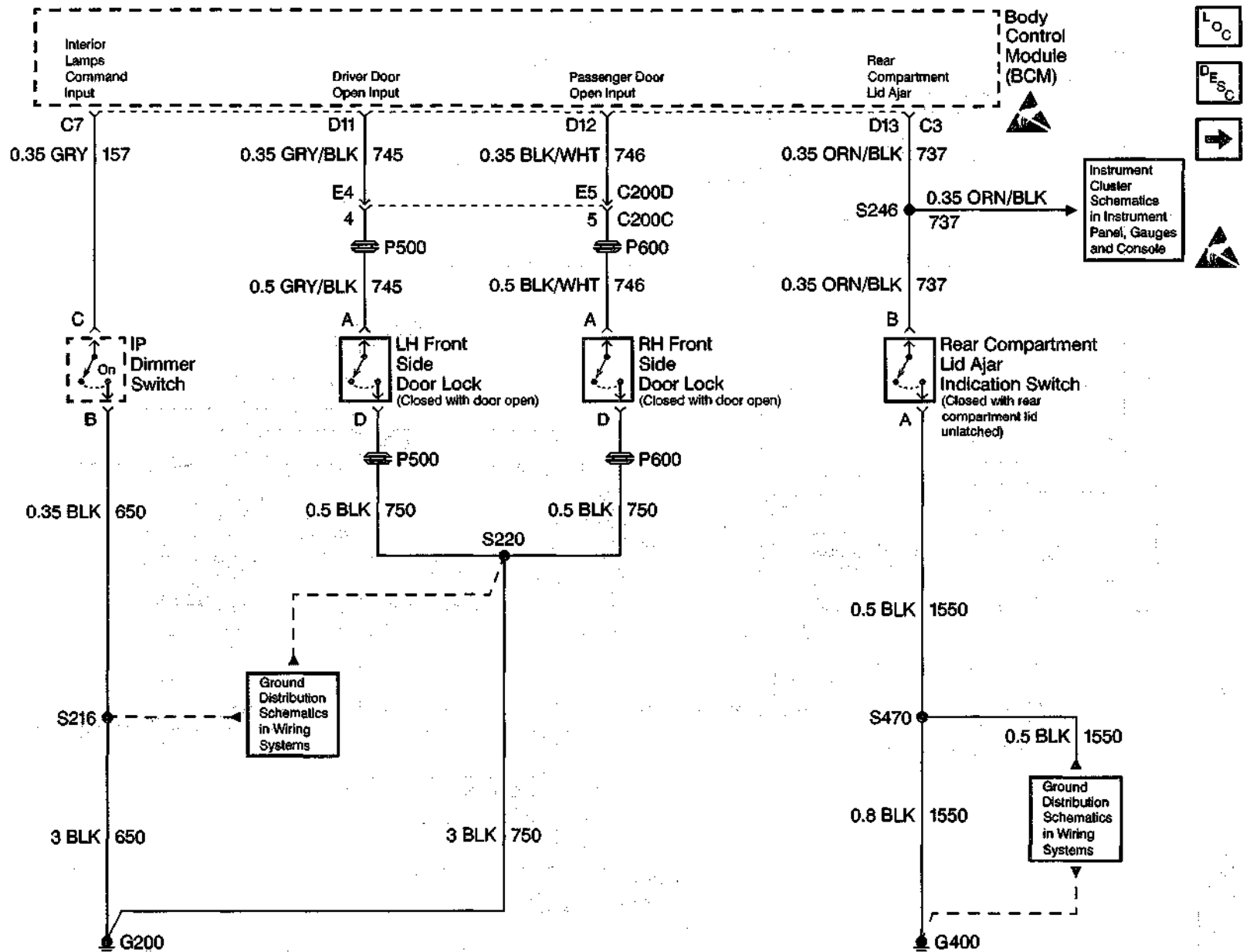


**Backup Lights Schematics (Pont and Chev: Domestic and Gulf States)
(Park Neutral Position Switch, Backup Lamp Switch, Backup Lamps)**

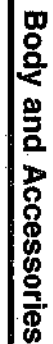


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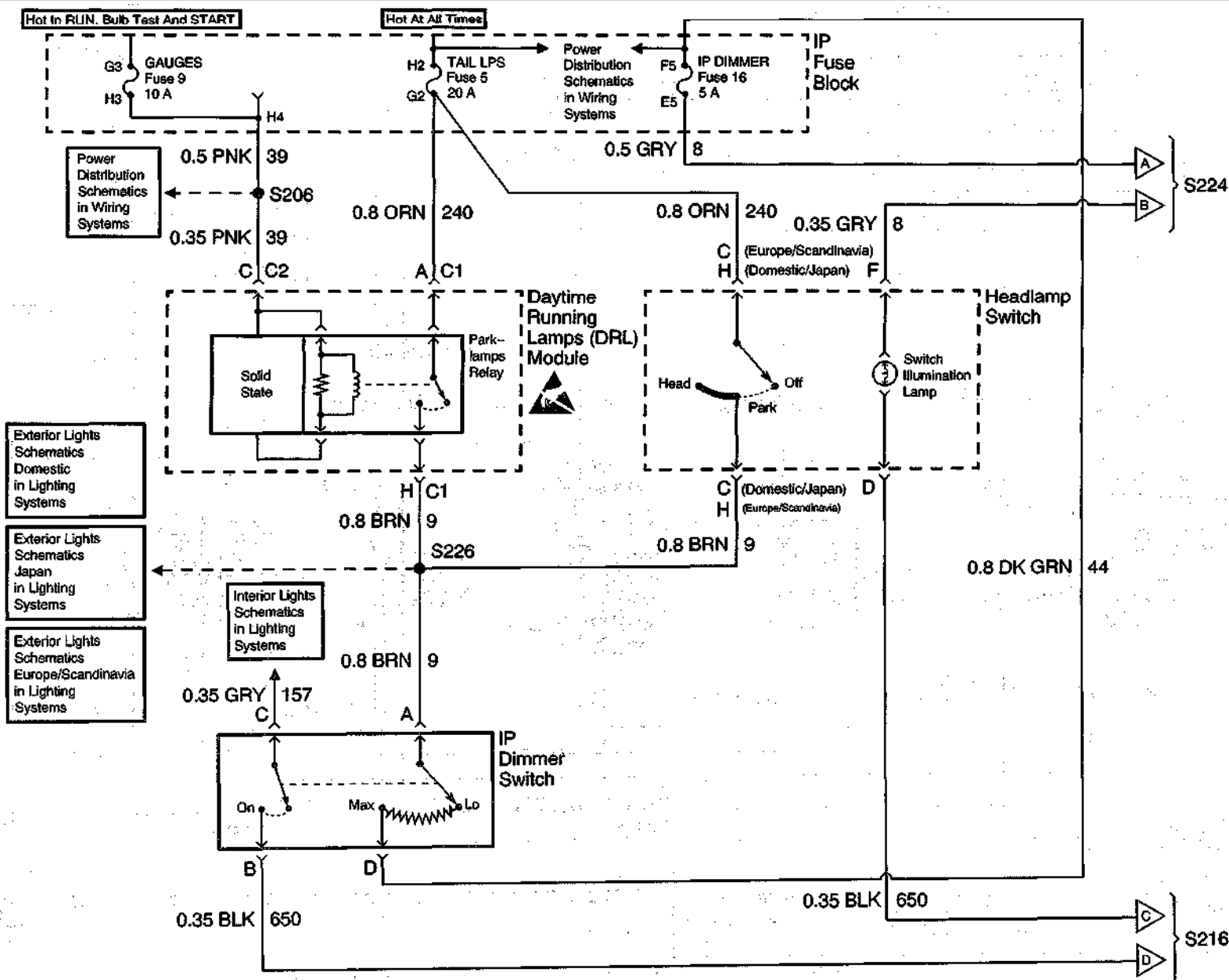
Interior Lights Schematics (Body Control Module and Switch Inputs)



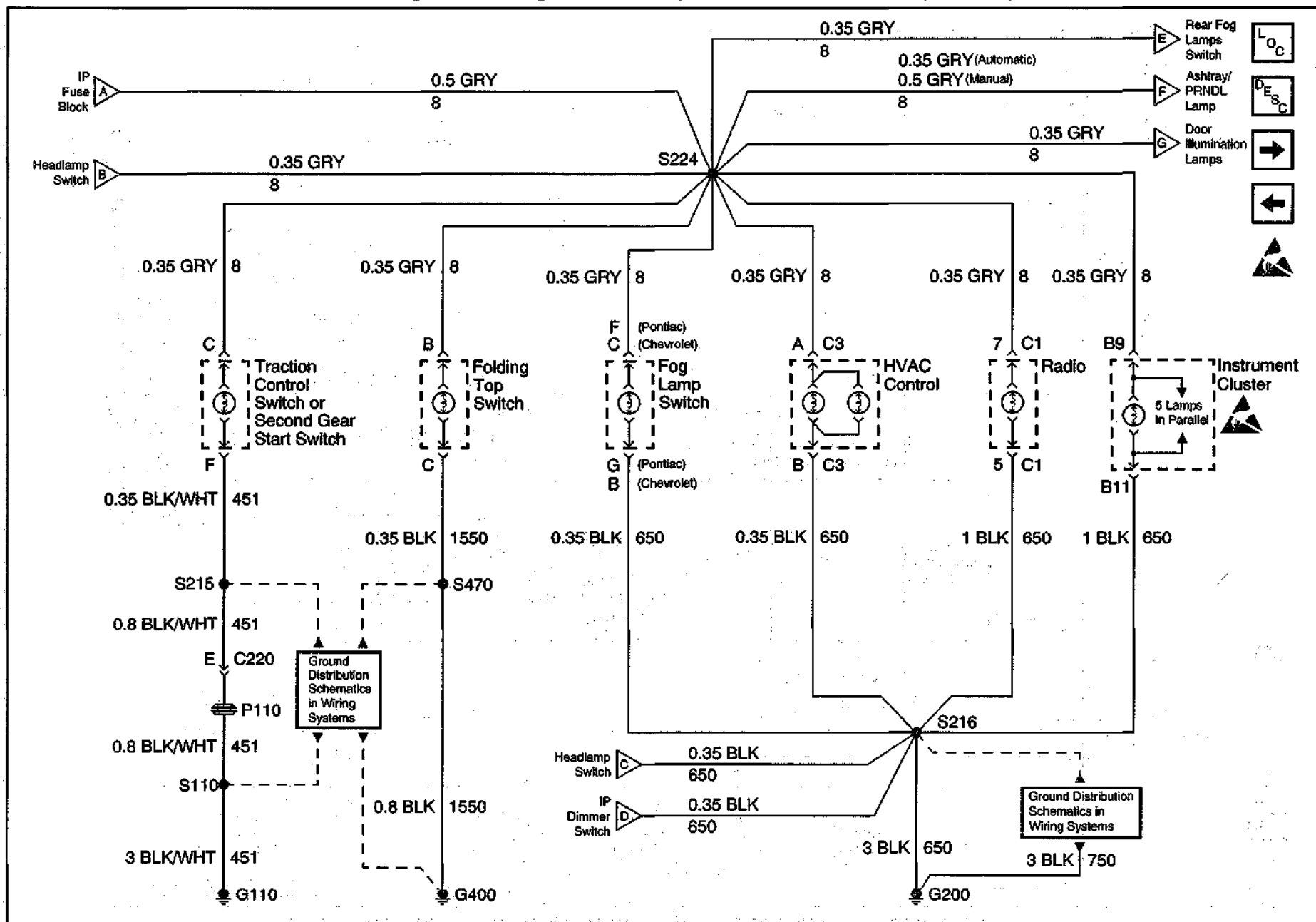
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Interior Lights Dimming Schematics (Headlamp Switch and IP Dimmer Switch)



Interior Lights Dimming Schematics (Interior Illumination Lamps 1 of 2)



Body and Accessories



Component Locator

Lighting Systems Components

Name	Location	Locator View	Connector End View
Ashtray Lamp (Auto Trans)	In the lighting tube from the PRNDL lamp	Hydraulic Brakes Component Views in Hydraulic Brakes	—
Ashtray Lamp (Manual Trans)	Rearward of the shifter, in the ashtray	Hydraulic Brakes Component Views in Hydraulic Brakes	—
Backup Lamp Switch (V6 VIN K) (M49)	In the middle of the manual transmission, on the left side	Lighting Systems Component Views	Lighting Systems Connector End Views
Backup Lamp Switch (V8 VIN G) (MM6)	In the middle of the manual transmission, on the right side	Lighting Systems Component Views	Lighting Systems Connector End Views
Backup Lamps	Mounted in the left and right taillamp assemblies	Lighting Systems Component Views	—
Body Control Module (BCM)	Under the right side of the IP near the blower motor	Body Control Module Component Views in Body Control Systems	Body Control Module Connector End Views in Body Control Systems
Center High Mounted Stop Lamp (CHMSL)	In the center of the rear spoiler	—	—
Courtesy Lamp, Left Rear (Convertible)	Mounted in the left sail panel	—	—
Courtesy Lamp, Rear Compartment (Convertible)	In the center of the rear compartment, near the rear compartment lid release actuator	—	—
Courtesy Lamp, Right Rear (Convertible)	Mounted in the right sail panel	—	—
Daytime Running Lamps (DRL) Ambient Light Sensor	Mounted in the top of the IP, near the defrost grill	Instrument Panel, Gauges, and Console Component Views in Instrument Panel, Gauges and Console	Lighting Systems Connector End Views
Daytime Running Lamps (DRL) Module	Mounted behind the radio and the HVAC control, left of the IP compartment	Data Link Communications Component Views in Data Link Communications	Lighting Systems Connector End Views
Daytime Running Lamps (DRL) Relay (Chevrolet/Scandinavia)	Approximately 31 cm (12 in) back from the windshield wiper motor	—	—
Diode Network (Europe)	Mounted behind the radio and HVAC control, left of the IP compartment	—	Lighting Systems Connector End Views
Dome Lamp (Coupe)	On the inside of the roof, near the hatch	—	—
Door Illumination Lamp	Mounted in the door arm rest	Power Door Systems Component Views in Doors	—
Door Lock Switch	Mounted in the door armrest	Power Door Systems Component Views in Doors	Power Door Systems Connector End Views in Doors
Engine Wiring Harness Junction Block 1	In the left front corner of the engine compartment	Power and Grounding Component Views in Wiring Systems	—
Engine Wiring Harness Junction Block 2	In the left front corner of the engine compartment	Power and Grounding Component Views in Wiring Systems	—
Fog Lamp	On the lower left and right side of the front fascia	Lighting Systems Component Views	—

Lighting Systems Components (cont'd)

Name	Location	Locator View	Connector End View
Fog Lamp Switch (Chevrolet)	In the center of the IP, above the radio	ABS Component Views in ABS Traction Control	Lighting Systems Connector End Views
Fog Lamp Switch (Pontiac)	On the left steering column, below the headlamp switch	Lighting Systems Component Views	Lighting Systems Connector End Views
Folding Top Switch	On the left side of the upper console	Power Roof Systems Component Views in Roof	Power Roof Systems Connector End Views in Roof
Fuse Holder (Export)	On the front of the vehicle, above each headlamp	—	—
Fusible Links	Forward of the left front wheelhouse, behind the underhood electrical center 2	—	—
Hazard Lamp Flasher	Left of the steering column, mounted to the IP carrier	Data Link Communications Component Views in Data Link Communications	Lighting Systems Connector End Views
Hazard Switch	Mounted on the right side of the steering column	—	Lighting Systems Connector End Views
Headlamp Dimmer Switch	Part of the steering column, activated by the multi-function lever	Lighting Systems Component Views	—
Headlamp Door Motor	On the front of the vehicle, near each headlamp door	—	Lighting Systems Connector End Views
Headlamp, High Beam (Chevrolet)	On the front of the vehicle	—	—
Headlamp Leveling Actuator Motor (Chevrolet:Europe, Scandinavia)	Part of the headlamp assembly	—	—
Headlamp Leveling Jumper Resistor	In the IP harness, approximately 12 cm (4 in) from G202 breakout, in inflatable restraint sensing and diagnostic module (SDM) breakout	—	—
Headlamp Leveling Switch (Europe)	On the left side of the upper console	Power Roof Systems Component Views in Roof	—
Headlamp, Low beam (Chevrolet)	On the front of the vehicle	—	—
Headlamp Opening Door Actuator Control Module	On the front right side of the engine compartment, beside the underhood electrical center 2	Power and Grounding Component Views in Wiring Systems	Lighting Systems Connector End Views
Headlamp Opening Door Assembly (Pontiac)	On the front right side of the engine compartment, beside the underhood electrical center 2	—	Lighting Systems Connector End Views
Headlamp Switch	On the left side of the IP	Lighting Systems Component Views	Lighting Systems Connector End Views
HVAC Control	In the center of the IP, below the radio	HVAC Component Views in HVAC with A/C Manual	HVAC Connector End Views in HVAC with A/C Manual
HVAC Control Lamp (Part of HVAC Control)	Part of the HVAC control	—	HVAC Connector End Views in HVAC with A/C Manual
Inflatable Restraint Steering Wheel Module Coil	On the top of the steering column	SIR Component Views in SIR	—

Lighting Systems Components (cont'd)

Name	Location	Locator View	Connector End View
Inside Rearview Mirror	Mounted to the inside center of the windshield	<i>Lighting Systems Component Views</i>	<i>Lighting Systems Connector End Views</i>
Instrument Cluster	On the left side of the IP	<i>Instrument Panel, Gauges, and Console Component Views in Instrument Panel, Gauges and Console</i>	<i>Instrument Panel, Gauges, and Console Connector End Views in Instrument Panel, Gauges and Console</i>
IP Compartment Lamp	Inside the top center of the IP compartment	<i>Instrument Panel, Gauges, and Console Component Views in Instrument Panel, Gauges and Console</i>	—
IP Dimmer Switch	Left of the steering wheel, part of the IP	<i>Instrument Panel, Gauges, and Console Component Views in Instrument Panel, Gauges and Console</i>	<i>Lighting Systems Connector End Views</i>
IP Fuse Block	On the left end of the IP carrier	<i>Instrument Panel, Gauges, and Console Component Views in Instrument Panel, Gauges and Console</i>	—
License Lamp	In the center of the rear fascia, above the license plate	<i>Lighting Systems Component Views</i>	—
Park Brake Switch	Below the center console, at the base of the park brake lever	<i>Hydraulic Brakes Component Views in Hydraulic Brakes</i>	—
Park/Neutral Position Switch	Under the center console, on the base of the shift control lever	<i>Automatic Transmission Shift Lock Control Component Views in Automatic Transmission</i>	<i>Engine Controls Connector End Views in Engine Controls</i>
Park/Turn Lamp, Front	On the left and right side of the exterior of the vehicle	<i>Lighting Systems Component Views</i>	—
Positioning Lamp (Chevrolet/Europe, Scandinavia)	On the front left and right side of the exterior of the vehicle	—	—
PRNDL Illumination Lamp	Under the console, left of the shift control lever	<i>Hydraulic Brakes Component Views in Hydraulic Brakes</i>	—
Radio	In the center of the IP, above the HVAC control	<i>Entertainment Component Views in Entertainment</i>	<i>Entertainment Connector End Views in Entertainment</i>
Rear Compartment Lid Ajar Indicator Switch	Part of the rear compartment lid latch	<i>Body Rear End Component Views in Body Rear End</i>	<i>Instrument Panel, Gauges, and Console Connector End Views in Instrument Panel, Gauges and Console</i>
Rear Fog Lamps (Europe)	On the left and right side of the rear fascia	<i>Lighting Systems Component Views</i>	—
Rear Fog Lamp Relay (Europe)	Behind the IP, mounted to the right side of the inflatable restraint instrument panel module bracket	<i>Theft Deterrent System Component Views in Theft Deterrent</i>	—
Rear Fog Lamp Switch (Europe)	In the center of the IP, above the HVAC control	<i>ABS Component Views in ABS Traction Control</i>	<i>Lighting Systems Connector End Views</i>
Second Gear Start Switch (V6 VIN K) (Chevrolet w/o NW9)	In the center of the IP, above the HVAC control	<i>ABS Component Views in ABS Traction Control</i>	<i>Engine Controls Connector End Views in Engine Controls</i>

Lighting Systems Components (cont'd)

Name	Location	Locator View	Connector End View
Side Marker Lamp	On the left and right front and rear exterior of the vehicle	Lighting Systems Component Views	—
Steering Wheel Controls	On the left and right side of the steering wheel	Entertainment Component Views in Entertainment	SIR Connector End Views in SIR
Stop Lamp/TCC Switch (Automatic)	Mounted on the brake pedal bracket	Cruise Control Component Views in Cruise Control	Lighting Systems Connector End Views
Taillamp	On the left and right rear exterior of the vehicle	Lighting Systems Component Views	—
Tail/Stop Lamp (Chevrolet)	On the left and right rear exterior of the vehicle	Lighting Systems Component Views	—
Tail/Stop/Turn Lamp (Chevrolet)	On the left and right rear exterior of the vehicle	Lighting Systems Component Views	—
Tail/Stop/Turn Lamp, Inboard (Pontiac)	On the left and right rear exterior of the vehicle	Lighting Systems Component Views	—
Tail/Stop/Turn Lamp, Outboard (Pontiac)	On the left and right rear exterior of the vehicle	Lighting Systems Component Views	—
Theft Deterrent Relay	Under the IP, above the floor tunnel, attached to the inflatable restraint IP module bracket	—	Theft Deterrent System Connector End Views in Theft Deterrent
Traction Control Switch (Chevrolet with NW9)	In the center of the IP, above the radio	ABS Component Views in ABS Traction Control	ABS Connector End Views in Antilock Brake System
Traction Control Switch (Pontiac)	On the left side of the upper console	Power Roof Systems Component Views in Roof	ABS Connector End Views in Antilock Brake System
Turn/Hazard Switch Assembly	On the left side of the steering column, part of the multi-function lever	—	Lighting Systems Connector End Views
Turn Signal Lamp Flasher	Under the instrument panel, right of the steering column	Lighting Systems Component Views	Lighting Systems Connector End Views
Turn Signal Lamp Flasher (Europe)	Under the instrument panel, right of the steering column	Lighting Systems Component Views	Lighting Systems Connector End Views
C105 (8 cavities)	Engine to forward lamp harness, in the engine compartment, above the right wheelhouse	Harness Routing Views in Wiring Systems	Inline Harness Connector End Views in Wiring Systems
C160 (5 cavities) (Pontiac)	Left headlamp to the forward lamp harness, behind the headlamp door bracket	Harness Routing Views in Wiring Systems	Lighting Systems Connector End Views
C165 (5 cavities) (Pontiac)	Right headlamp to the forward lamp harness, behind the headlamp door bracket	Harness Routing Views in Wiring Systems	Lighting Systems Connector End Views
C170 (3 cavities) (Export)	Forward lamp harness to the left headlamp leveling motor harness	Harness Routing Views in Wiring Systems	—
C175 (3 cavities) (Export)	Forward lamp harness to the right headlamp leveling motor harness	Harness Routing Views in Wiring Systems	—
C200A (17 cavities)	Forward lamp to IP harness, between the left kick panel and the steering column	Harness Routing Views in Wiring Systems	Inline Harness Connector End Views in Wiring Systems
C200B (18 cavities)	Forward lamp to IP harness, between the left kick panel and the steering column	Harness Routing Views in Wiring Systems	Inline Harness Connector End Views in Wiring Systems
C200C (13 cavities)	Cross car to IP harness, between the left kick panel and the steering column	Harness Routing Views in Wiring Systems	Inline Harness Connector End Views in Wiring Systems

Lighting Systems Components (cont'd)

Name	Location	Locator View	Connector End View
C200D (48 cavities)	Part of the IP harness, between the left kick panel and the steering column	<i>Harness Routing Views in Wiring Systems</i>	<i>Inline Harness Connector End Views in Wiring Systems</i>
C206 (4 cavities) (Chevrolet Export)	Forward lamp to IP harness, under the left side of the IP, behind the knee bolster	—	<i>Inline Harness Connector End Views in Wiring Systems</i>
C216 (11 cavities)	IP to steering column harness, attached to the base of the steering column	<i>Harness Routing Views in Wiring Systems</i>	<i>Lighting Systems Connector End Views</i>
C217 (4 cavities)	IP to inflatable restraint steering wheel module coil harness, near the base of the steering column	<i>Harness Routing Views in Wiring Systems</i>	—
C220 (10 cavities)	IP to engine harness, under the right side of the IP, behind the knee bolster	<i>Harness Routing Views in Wiring Systems</i>	<i>Inline Harness Connector End Views in Wiring Systems</i>
C330 (2 cavities) (Coupe)	Hatch to the IP harness, center of the roof near the dome lamp	<i>Harness Routing Views in Wiring Systems</i>	<i>Inline Harness Connector End Views in Wiring Systems</i>
C400 (6 cavities)	IP to rear body harness, left rear cargo compartment, between the rear end panel and the carpet	<i>Harness Routing Views in Wiring Systems</i>	<i>Inline Harness Connector End Views in Wiring Systems</i>
C410 (2 cavities) (Export)	IP to rear body harness, in the left side of the rear compartment	—	<i>Inline Harness Connector End Views in Wiring Systems</i>
C430 (2 cavities)	Rear body harness to the rear fascia harness, between the rear fascia and the rear panel, on the left side	<i>Harness Routing Views in Wiring Systems</i>	<i>Inline Harness Connector End Views in Wiring Systems</i>
G105	Attached to the top right side of the radiator support	<i>Harness Routing Views in Wiring Systems</i>	—
G106	Attached to the top left side of the radiator support	<i>Harness Routing Views in Wiring Systems</i>	—
G200	Near the left A-pillar, bolted to the IP mounting stud behind the kick panel	<i>Harness Routing Views in Wiring Systems</i>	—
G310	Bolted to the roof, left of the dome lamp	<i>Harness Routing Views in Wiring Systems</i>	—
G400	Bolted to the rear compartment lid release actuator bracket in the rear compartment	<i>Harness Routing Views in Wiring Systems</i>	—
P100	Left side in the dash panel, engine to the passenger compartment	<i>Harness Routing Views in Wiring Systems</i>	—
P110	Right side in the dash panel, engine to the passenger compartment	<i>Harness Routing Views in Wiring Systems</i>	—
P300	In the rear center of the roof, near the dome lamp	<i>Harness Routing Views in Wiring Systems</i>	—
P400	In the rear of the cargo compartment, left of the rear compartment lid release actuator	<i>Harness Routing Views in Wiring Systems</i>	—
P500	Between the driver door and A-pillar	<i>Harness Routing Views in Wiring Systems</i>	—
P600	Between the passenger door and A-pillar	<i>Harness Routing Views in Wiring Systems</i>	—
S104 (V6 VIN K)	In the engine harness, approximately 7 cm (2.3 in) from the right knock sensor breakout	—	—
S104 (V8 VIN G)	in the engine harness, approximately 14 cm (5.5 in) from the powertrain control module (PCM) breakout	—	—

Lighting Systems Components (cont'd)

Name	Location	Locator View	Connector End View
S110 (V6 VIN K)	In the engine harness, approximately 4 cm (1.6 in) from the powertrain control module (PCM) breakout	—	—
S110 (V8 VIN G)	In the engine harness, main branch, approximately 20 cm (7.9 in) from the powertrain control module (PCM) breakout	—	—
S112	In the forward lamp harness, approximately 9 cm (3.5 in) from the right lamps breakout	—	—
S113	In the forward lamp harness approximately 7 cm (2.8 in) from the electronic throttle control (ETC) module/cruise control module breakout	—	—
S150	In the forward lamp harness, approximately 16 cm (6.3 in) from the windshield washer pump breakout	—	—
S152	In the forward lamp harness, approximately 7 cm (2.8 in) from the C120 (left front wheel speed sensor) breakout	—	—
S153	In the forward lamp harness, approximately 13 cm (5.1 in) from the C120 (left front wheel speed sensor) breakout	—	—
S155	In the forward lamp harness, approximately 27 cm (10.6 in) from the electronic throttle control (ETC) module/cruise control module breakout	—	—
S156 (Export)	In the forward lamp harness, main branch, approximately 7 cm (2.8 in) from G106 breakout	—	—
S157 (Export)	In the forward lamp harness, approximately 8 cm (3.2 in) from G105 breakout	—	—
S160	In the forward lamp harness, approximately 4 cm (1.6 in) from the electronic throttle control (ETC) module/cruise control	—	—
S172 (Export)	In the forward lamp harness, approximately 28 cm (11 in) from G105 breakout	—	—
S202 (Export)	In the forward lamp harness, approximately 28 cm (4.3 in) from C200	—	—
S206	In the IP harness, at the rear compartment lid release relay breakout	—	—
S207	In the IP harness, main branch, approximately 4 cm (1.6 in) from the data link connector (DLC) breakout	—	—
S210 (Chevrolet Export)	In the forward lamp harness, main branch, approximately 8 cm (3 in) from the ignition switch breakout	—	—
S214 (Chevrolet: All except Europe)	In the IP harness, approximately 8 cm (3 in) into the instrument cluster breakout	—	—
S215	In the IP harness, main branch, approximately 11 cm (4 in) from the antenna cable breakout	—	—

Lighting Systems Components (cont'd)

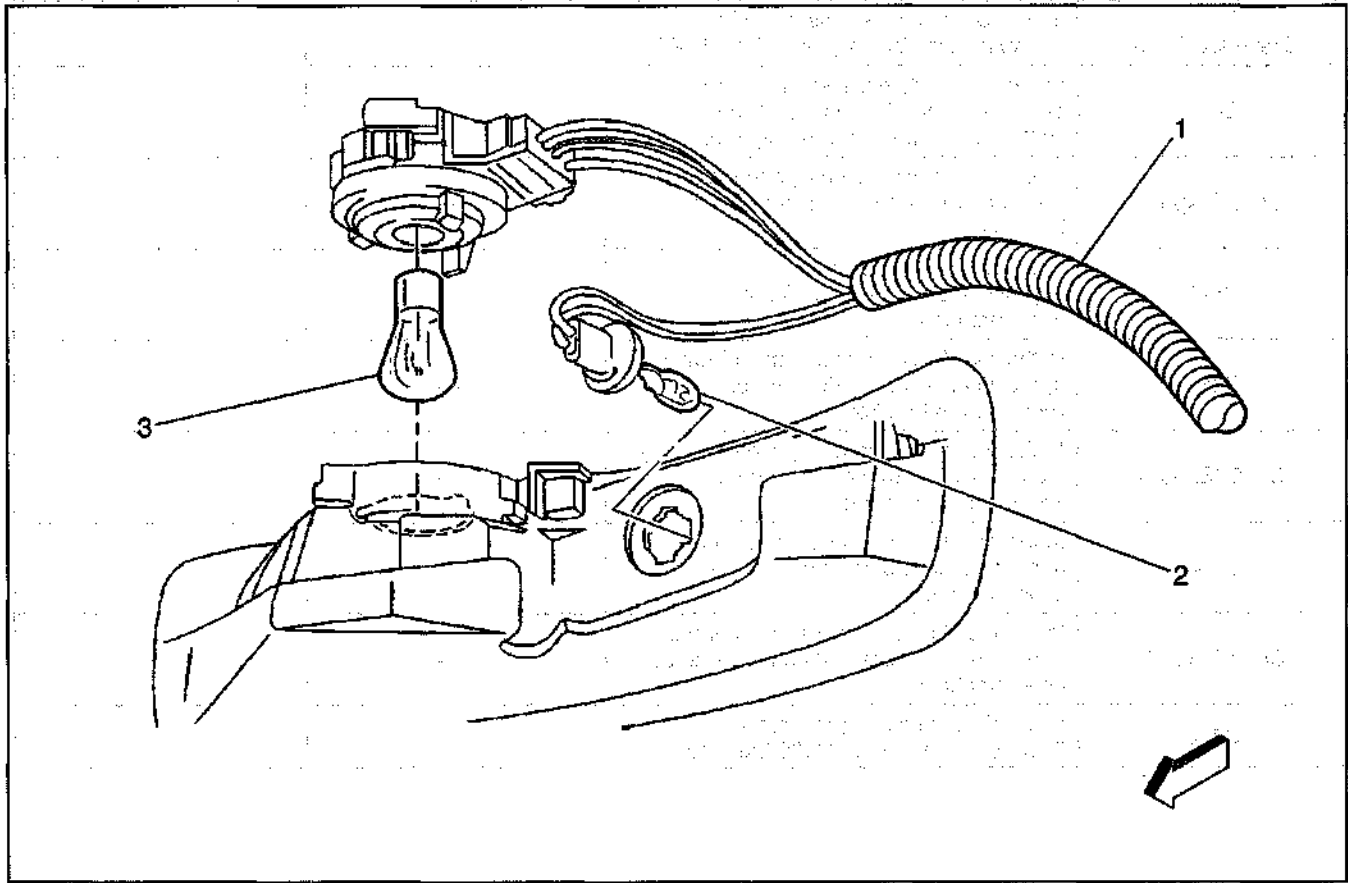
Name	Location	Locator View	Connector End View
S216	In the IP harness, main branch, approximately 10 cm (4 in) from the instrument cluster breakout	—	—
S217	In the IP harness, main branch, approximately 18 cm (6.8 in) from the body control module (BCM) breakout	—	—
S220	In the cross car harness, main branch, approximately 9 cm (3.5 in) from C200C breakout	—	—
S224	In the IP harness, main branch, approximately 17 cm (6.7 in) from the instrument cluster breakout	—	—
S226	In the IP harness, approximately 7 cm (2.8 in) into the headlamp switch breakout	—	—
S227	In the IP harness, approximately 14 cm (5.5 in) into the headlamp switch breakout	—	—
S241	In the IP harness, main branch, approximately 4 cm (1.6 in) from the antenna cable breakout	—	—
S243	In the IP harness, approximately 9 cm (3.5 in) from G200 breakout	—	—
S245 (Export)	In the IP harness, approximately 22 cm (8.7 in) from G200 breakout	—	—
S246	In the IP harness, main branch, approximately 3 cm (1.2 in) from the antenna cable breakout	—	—
S247	In the IP harness, approximately 16 cm (6.3 in) from G200 breakout	—	—
S249 (Export)	In the IP harness, approximately 5 cm (2 in) into the diode network breakout	—	—
S250 (Chevrolet: Export)	In the IP harness, approximately 29 cm (11.4 in) from G200 breakout	—	—
S251 (Chevrolet: Japan)	In the IP harness, at IP fuse block breakout	—	—
S284 (Export)	In the IP harness, approximately 11 cm (4.3 in) from the G202 breakout	—	—
S285 (Export)	In the IP harness, approximately 21 cm (8.3 in) from the G202 breakout	—	—
S317 (Convertible)	In the IP harness, main branch, approximately 40 cm (15.8 in) from the left rear courtesy lamp breakout	—	—
S400 (Chevrolet)	In the rear body harness, main branch, approximately 20 cm (7.9 in) from P400 breakout, toward the right taillamp	—	—
S400 (Pontiac)	In the rear body harness, main branch, approximately 13 cm (5.1 in) from P400 breakout, toward the right taillamp	—	—
S402 (Pontiac)	In the rear body harness, between P400 and C400 in breakout, approximately 13 cm (5.1 in) from P400	—	—
S404 (Chevrolet)	In the rear body harness, approximately 21 cm (8.3 in) from P400	—	—
S406 (Chevrolet)	In the rear body harness, between P400 and C400 in breakout, approximately 11 cm (4.3 in) from P400	—	—

Lighting Systems Components (cont'd)

Name	Location	Locator View	Connector End View
S408 (Chevrolet: Export)	In the rear body harness, main branch, approximately 20 cm (7.9 in) from P400	—	—
S410	In the rear body harness, main branch, approximately 27 cm (10.3 in) from P400 breakout, toward the right taillamp	—	—
S415 (Export)	In the rear fascia harness, approximately 13 cm (5.1 in) from the license lamp breakout	—	—
S420	In the hatch harness, main branch, approximately 7 cm (2.8 in) from P300 breakout	—	—
S430	In the rear fascia harness, main branch, approximately 12 cm (5.7 in) from the license lamp breakout	—	—
S430 (Export)	In the rear fascia harness, approximately 8 cm (3.2 in) from the main branch, in license lamp breakout	—	—
S440	In the rear fascia harness, main branch, approximately 5 cm (2 in) from license lamp breakout	—	—
S440 (Export)	In the rear fascia harness, main branch, approximately 7 cm (2.8 in) from license lamp breakout	—	—
S470	In the IP harness, approximately 6 cm (9.5 in) from the G400 breakout	—	—

Lighting Systems Component Views

Right Side of Front Fascia

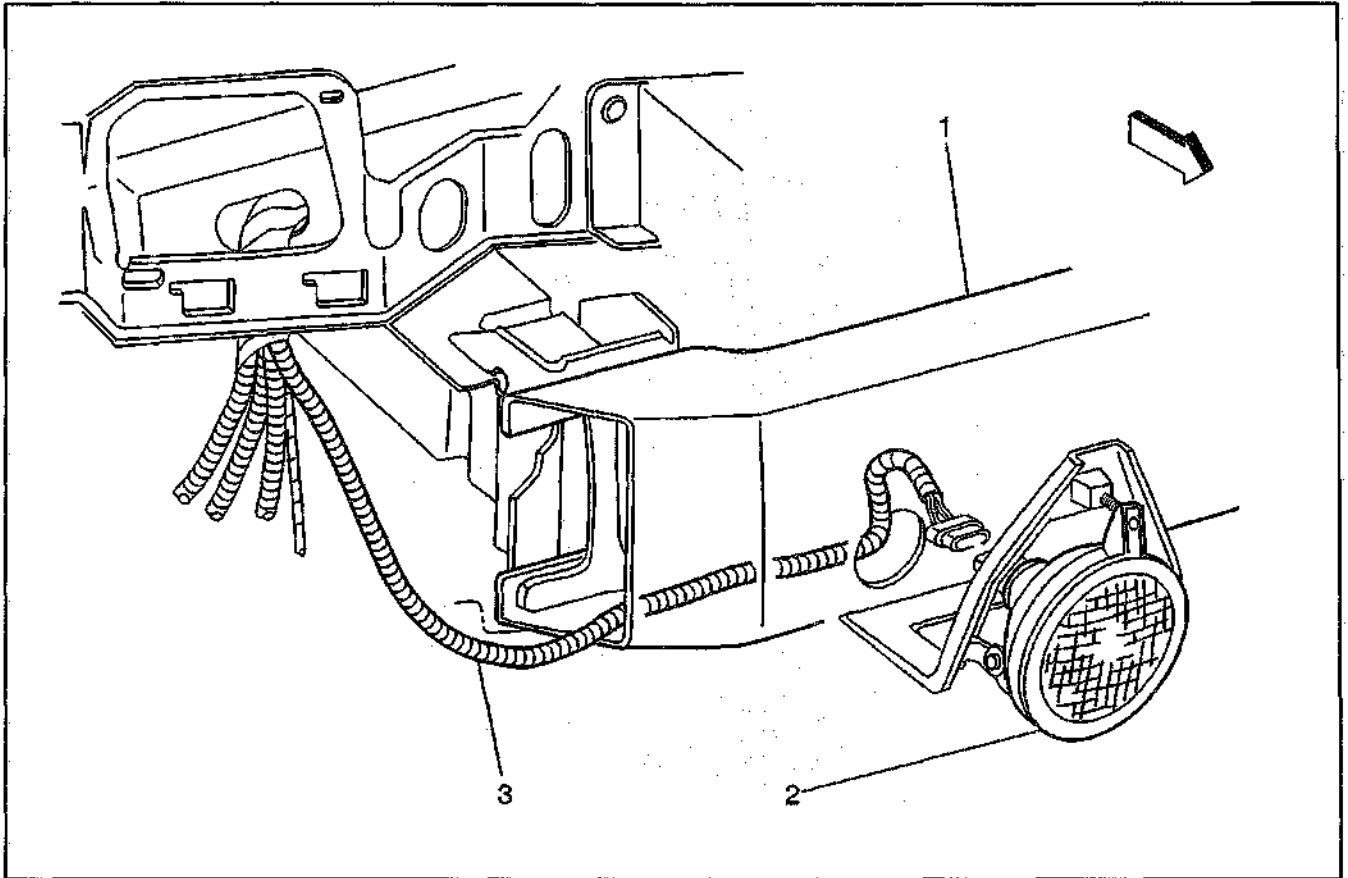


374164

Legend

- | | |
|-----------------------------------|---------------------------------|
| (1) Forward Lamp Harness | (3) Park/Turn Lamp, Right Front |
| (2) Side Marker Lamp, Right Front | |

Lower Right Side of Front Fascia



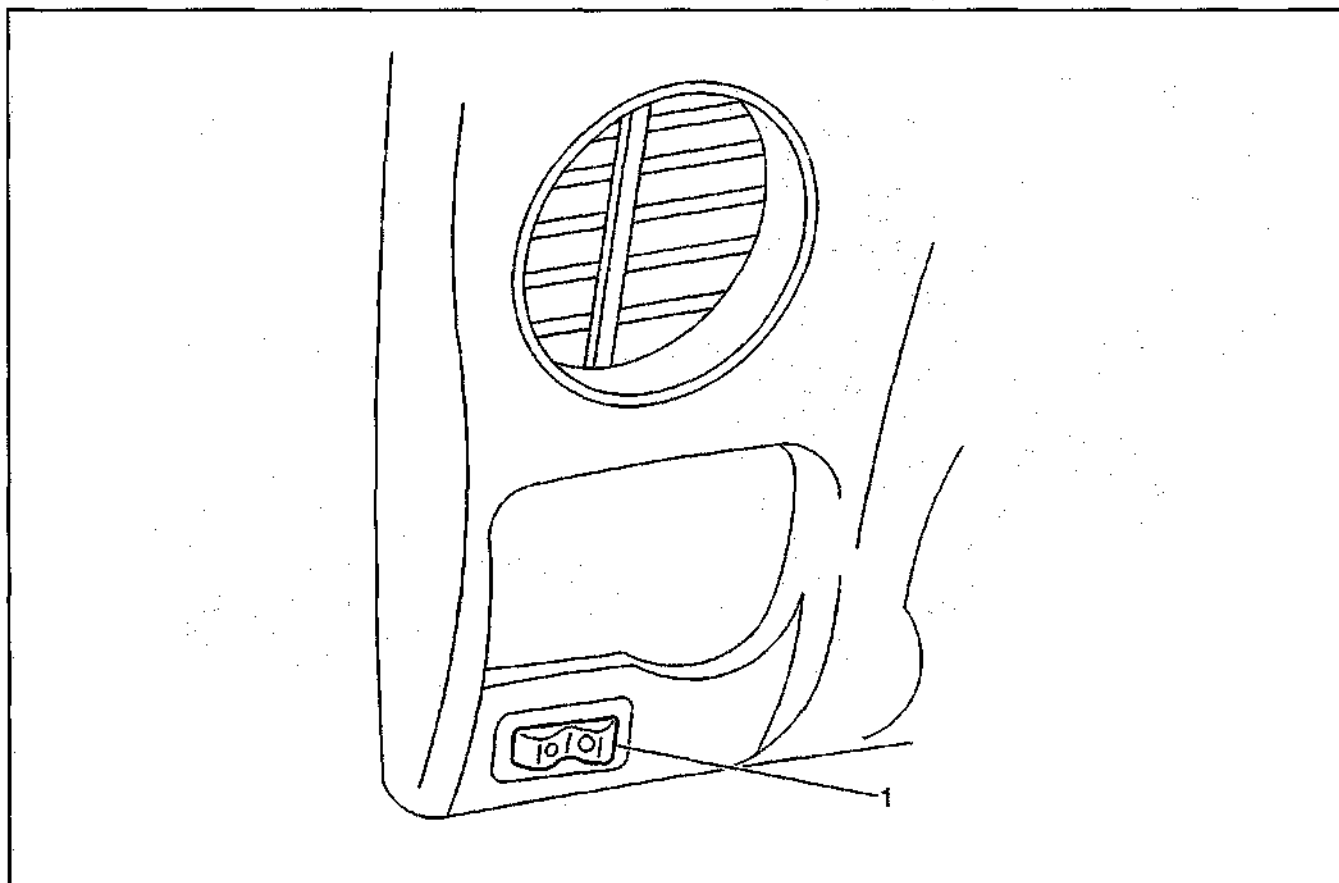
575347

Legend

- (1) Front Bumper Beam
- (2) Fog Lamp

- (3) Forward Lamp Harness

Left Lower Instrument Panel (Pontiac)

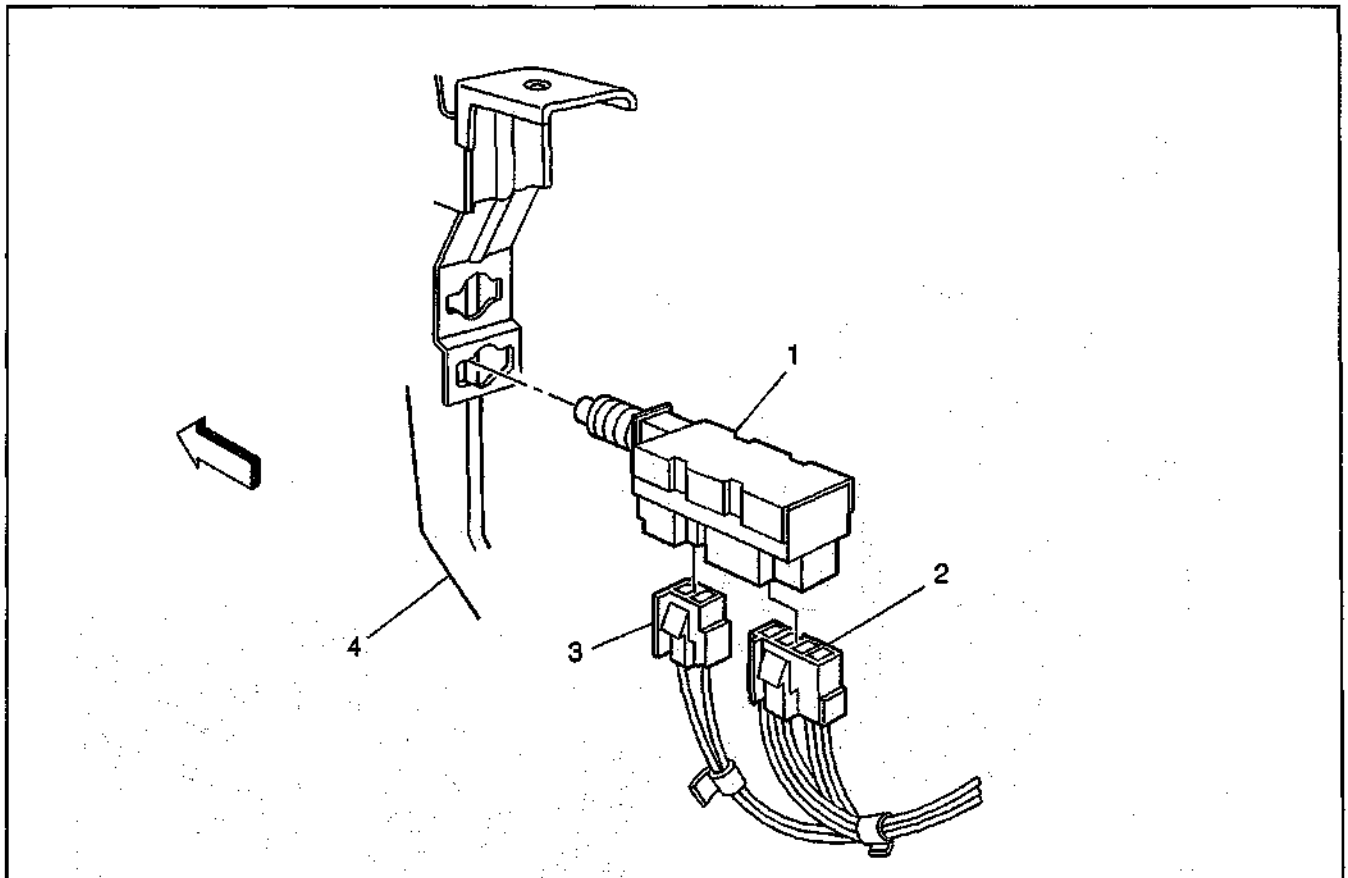


581418

Legend

(1) Fog Lamp Switch

Brake Pedal Bracket

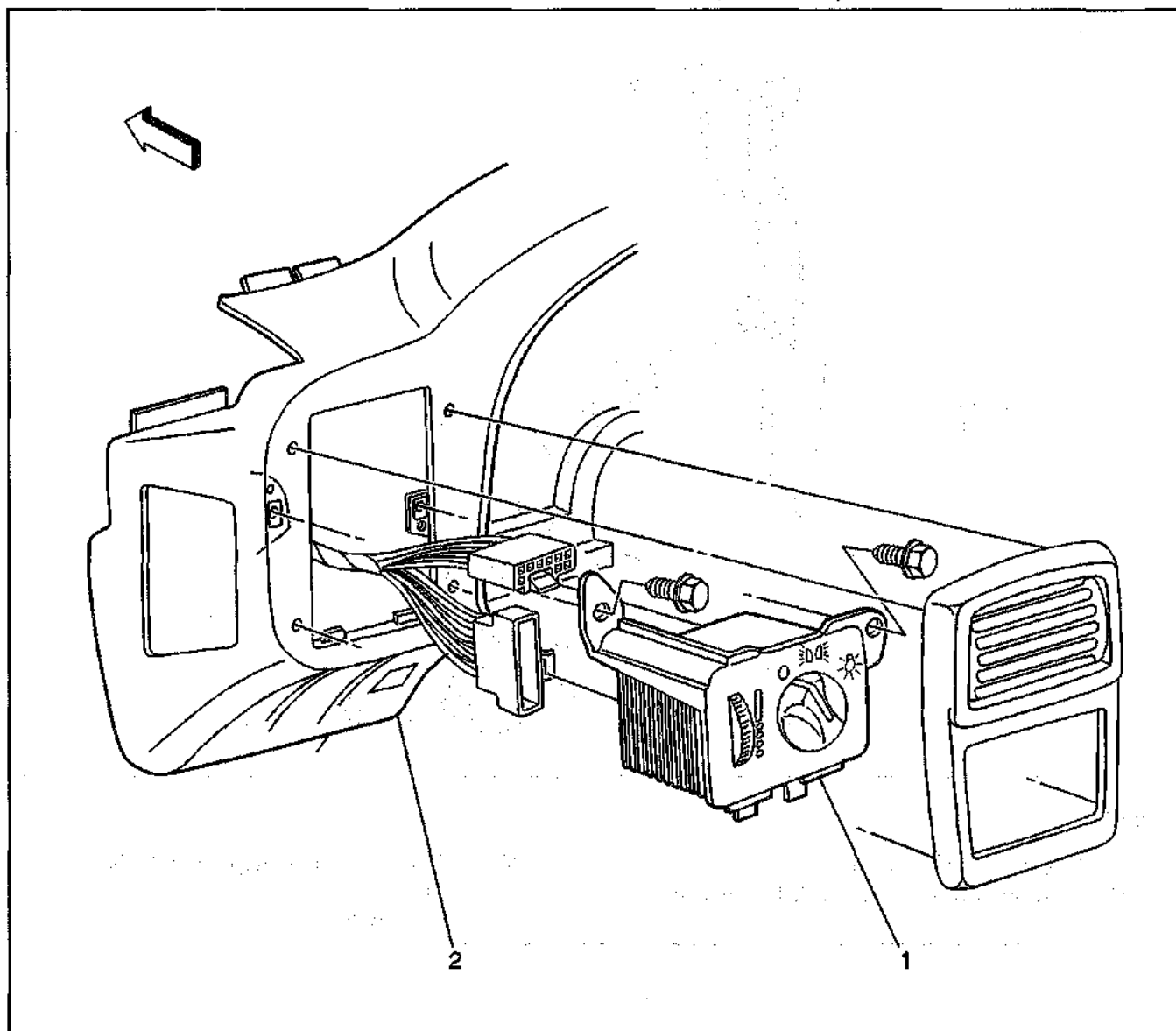


568548

Legend

- | | |
|--|--|
| (1) Stop Lamp/TCC Switch | (3) IP Wiring Harness/Stop Lamp Switch Connector |
| (2) IP Wiring Harness/TCC Switch Connector | (4) Brake Pedal |

Left Side of Instrument Panel (Chevrolet)



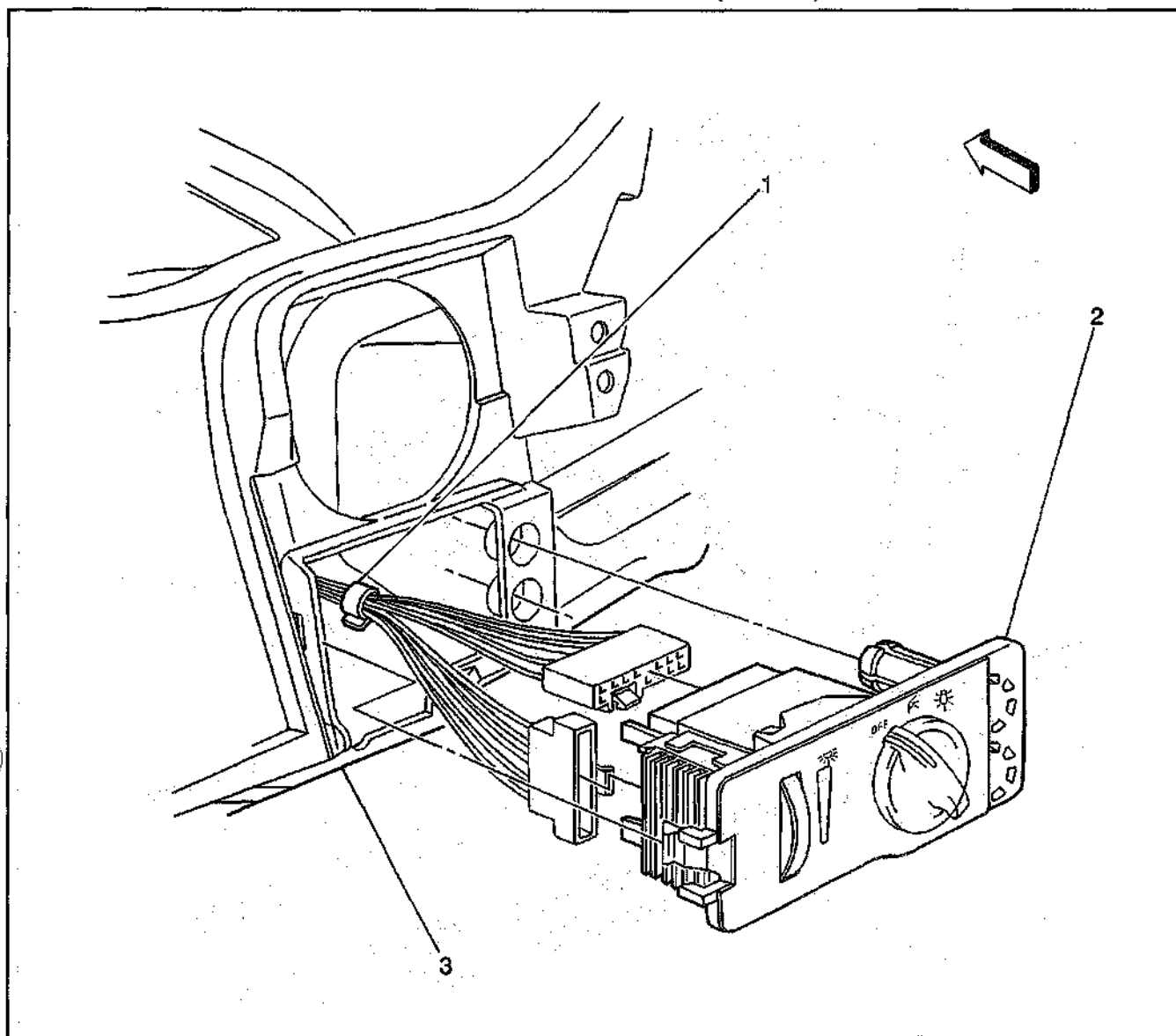
374311

Legend

(1) Headlamp and IP Dimmer Switch Assembly

(2) Instrument Panel

Left Side of Instrument Panel (Pontiac)



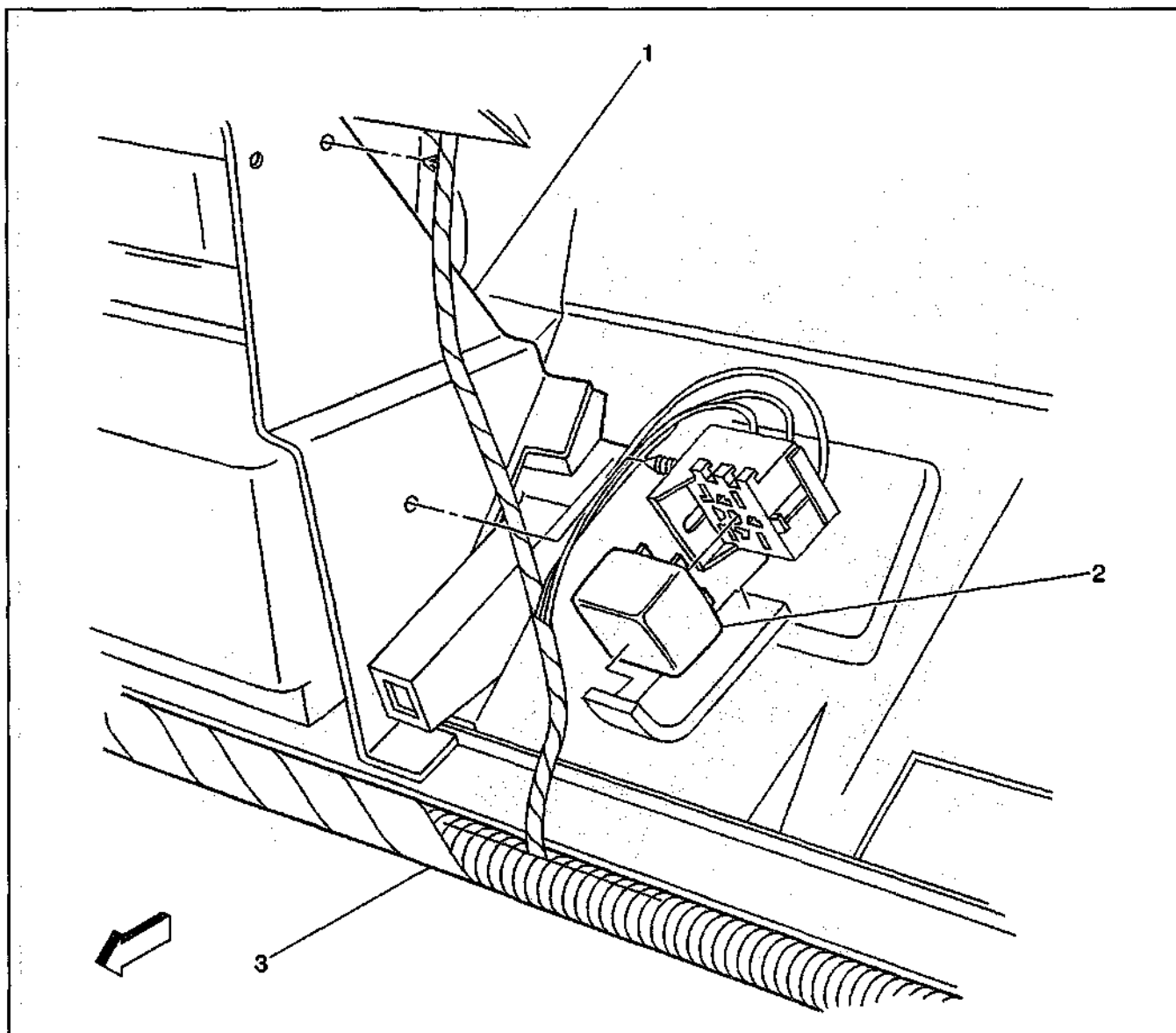
374315

Legend

- (1) Instrument Panel Wiring Harness
- (2) Headlamp Switch Assembly

- (3) Instrument Panel Carrier

Center Instrument Panel



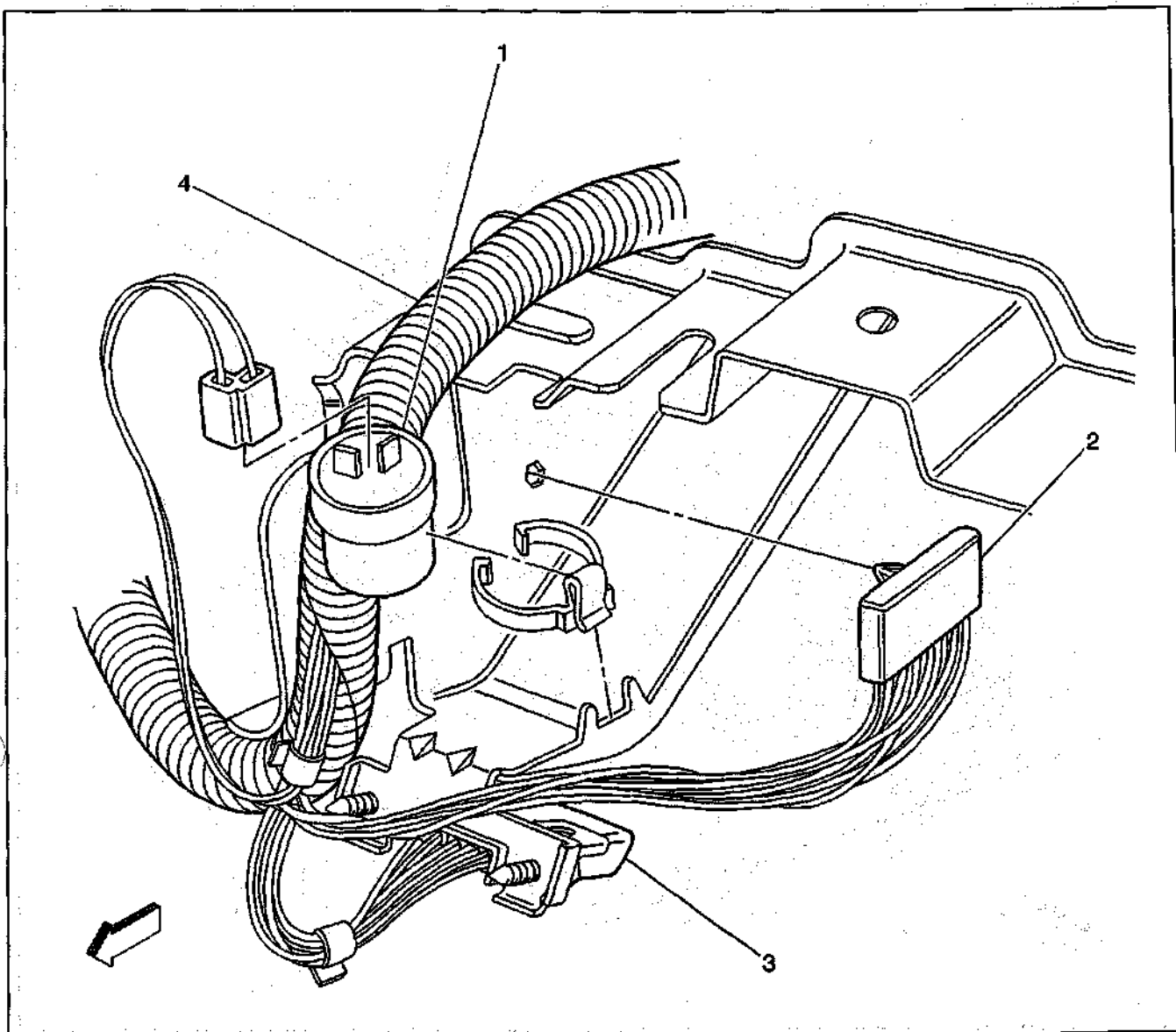
374302

Legend

- (1) SIR Bracket
- (2) Turn Signal Lamp Flasher (Export)

- (3) Instrument Panel Wiring Harness

Left Side of Instrument Panel



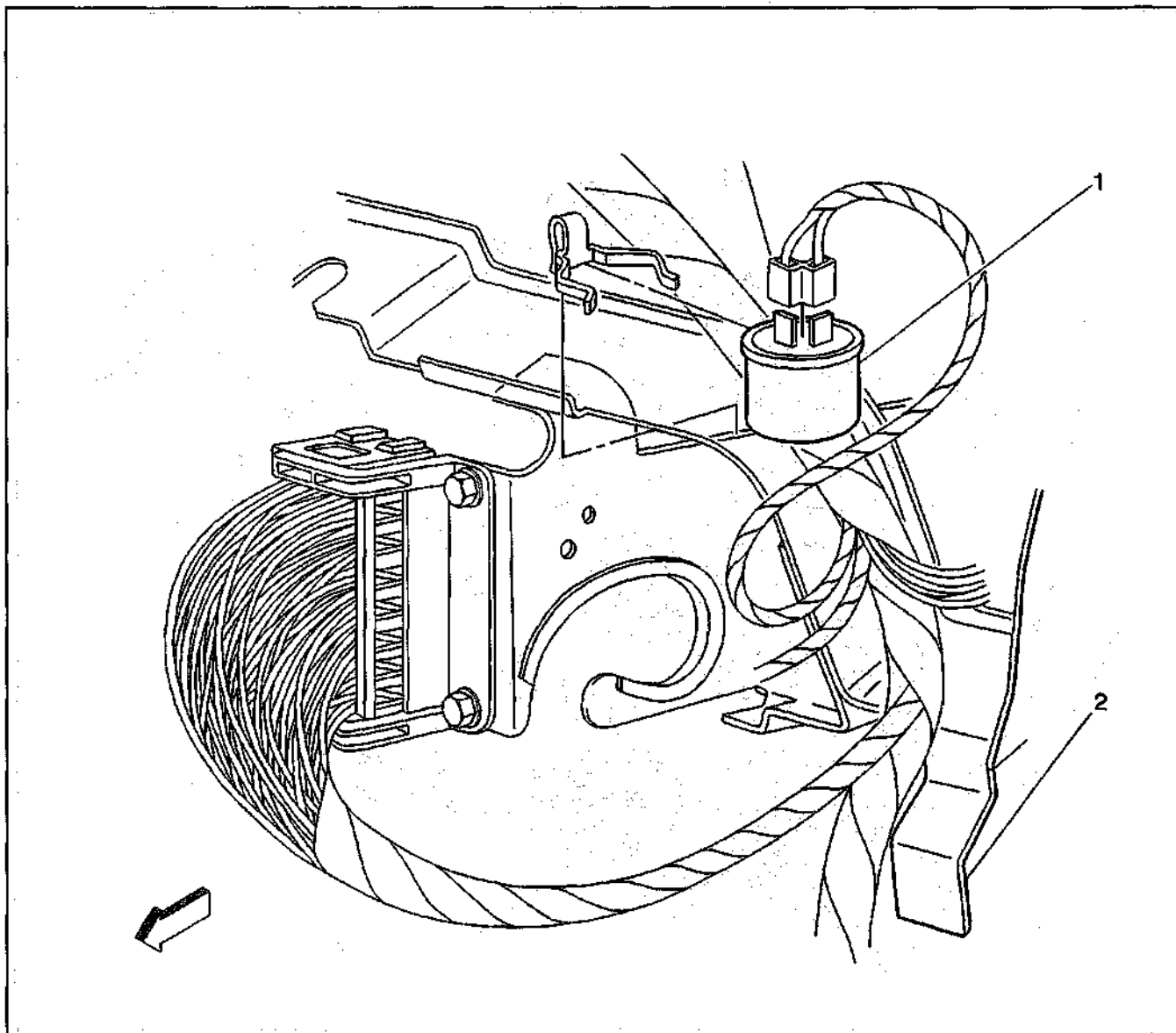
374307

Legend

- (1) Turn Signal Lamp Flasher (Domestic)
- (2) Star Connector (Class 2)

- (3) Data Link Connector (DLC)
- (4) Instrument Panel Wiring Harness

Hazard Warning Flasher



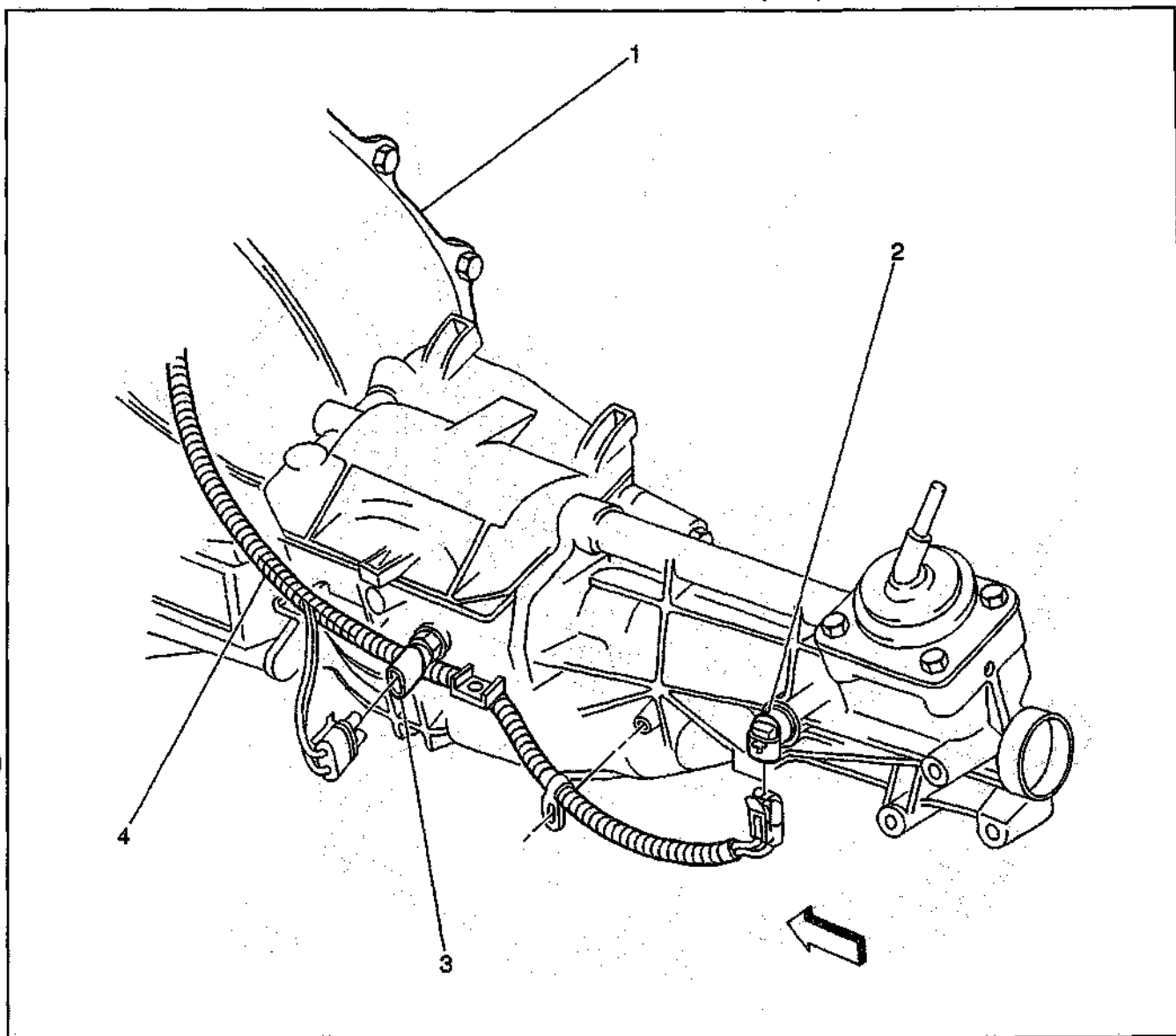
374316

Legend

(1) Hazard Lamp Flasher

(2) Instrument Panel

Left Side of Manual Transmission (M49)



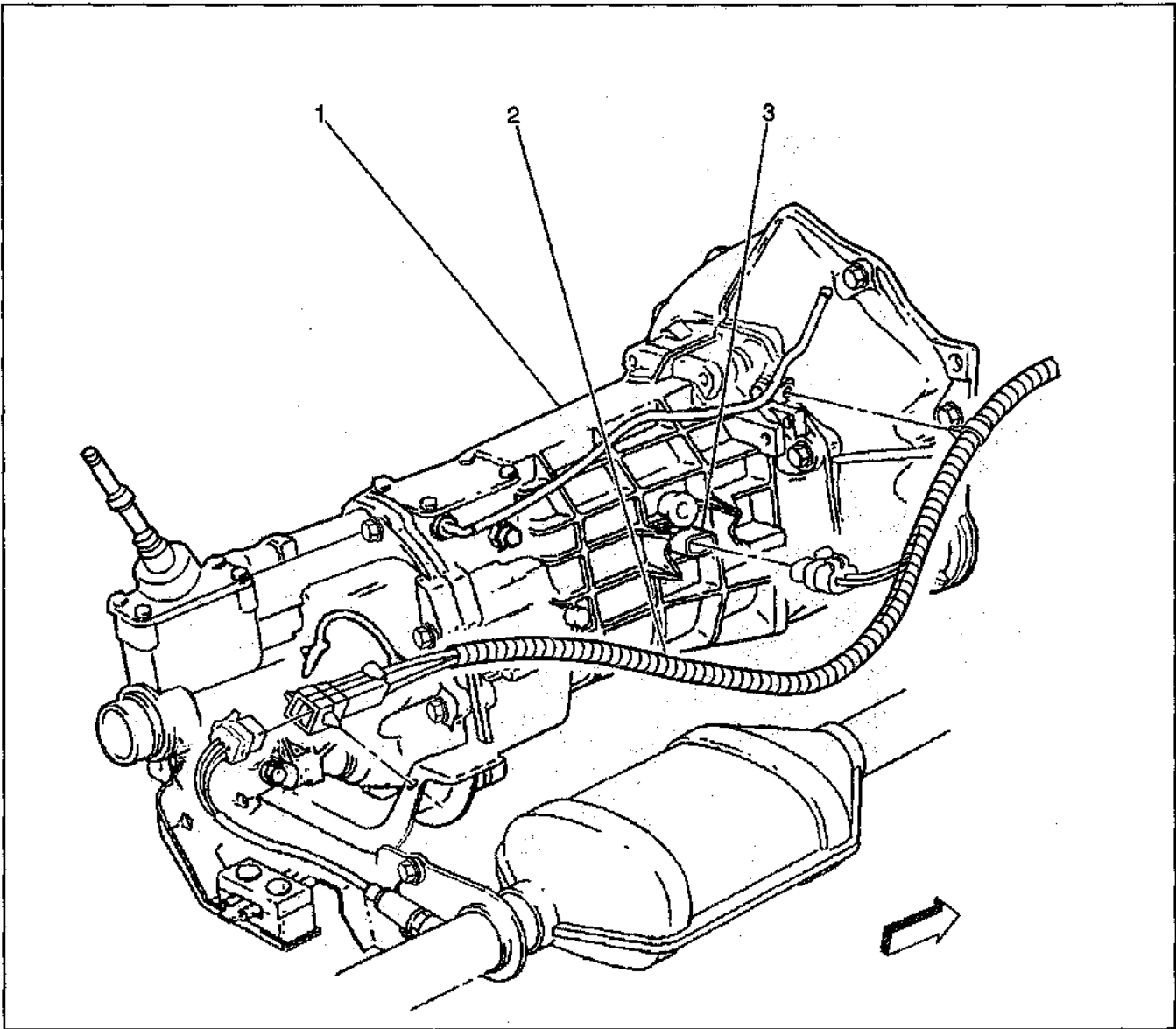
374263

Legend

- (1) Manual Transmission
- (2) Vehicle Speed Sensor

- (3) Backup Lamp Switch
- (4) Engine Wiring Harness

Right Side of Manual Transmission (V8 VIN G) (MM6)



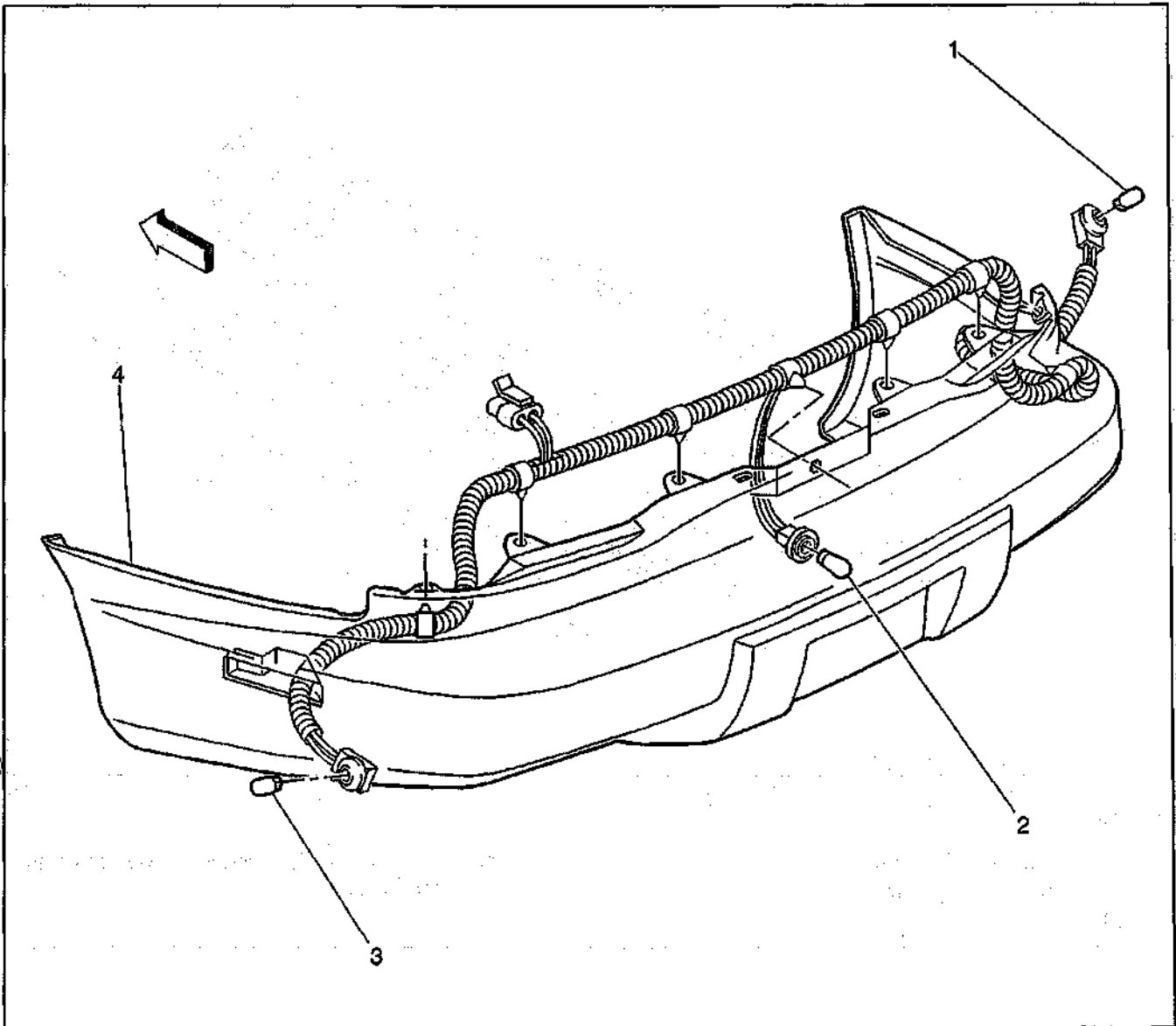
374289

Legend

- (1) Manual Transmission
- (2) Engine Wiring Harness

- (3) Backup Lamp Switch

Rear Fascia

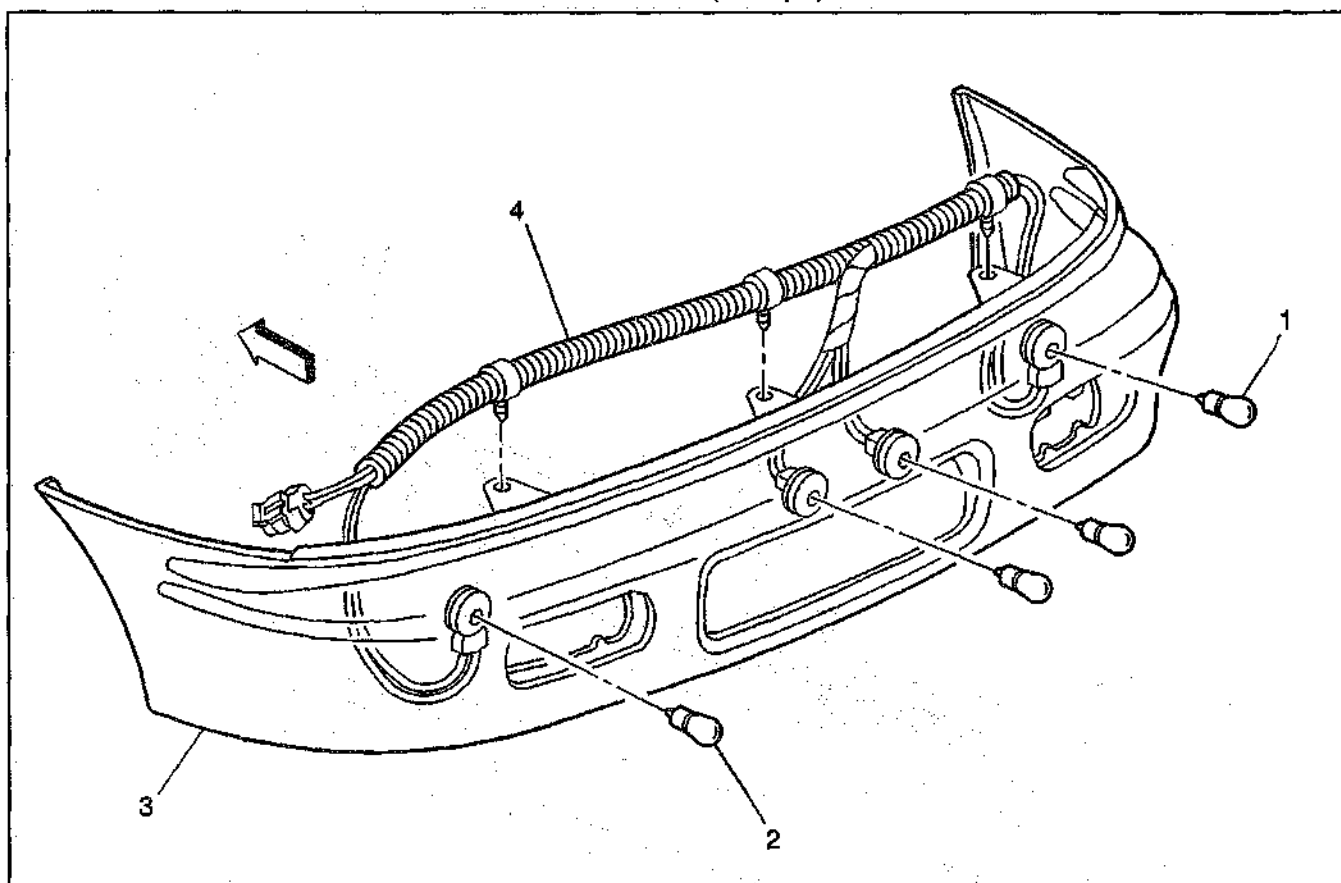


374125

Legend

- | | |
|----------------------------------|---------------------------------|
| (1) Side Marker Lamp, Right Rear | (3) Side Marker Lamp, Left Rear |
| (2) License Lamp | (4) Rear Fascia |

Rear Fascia (Europe)

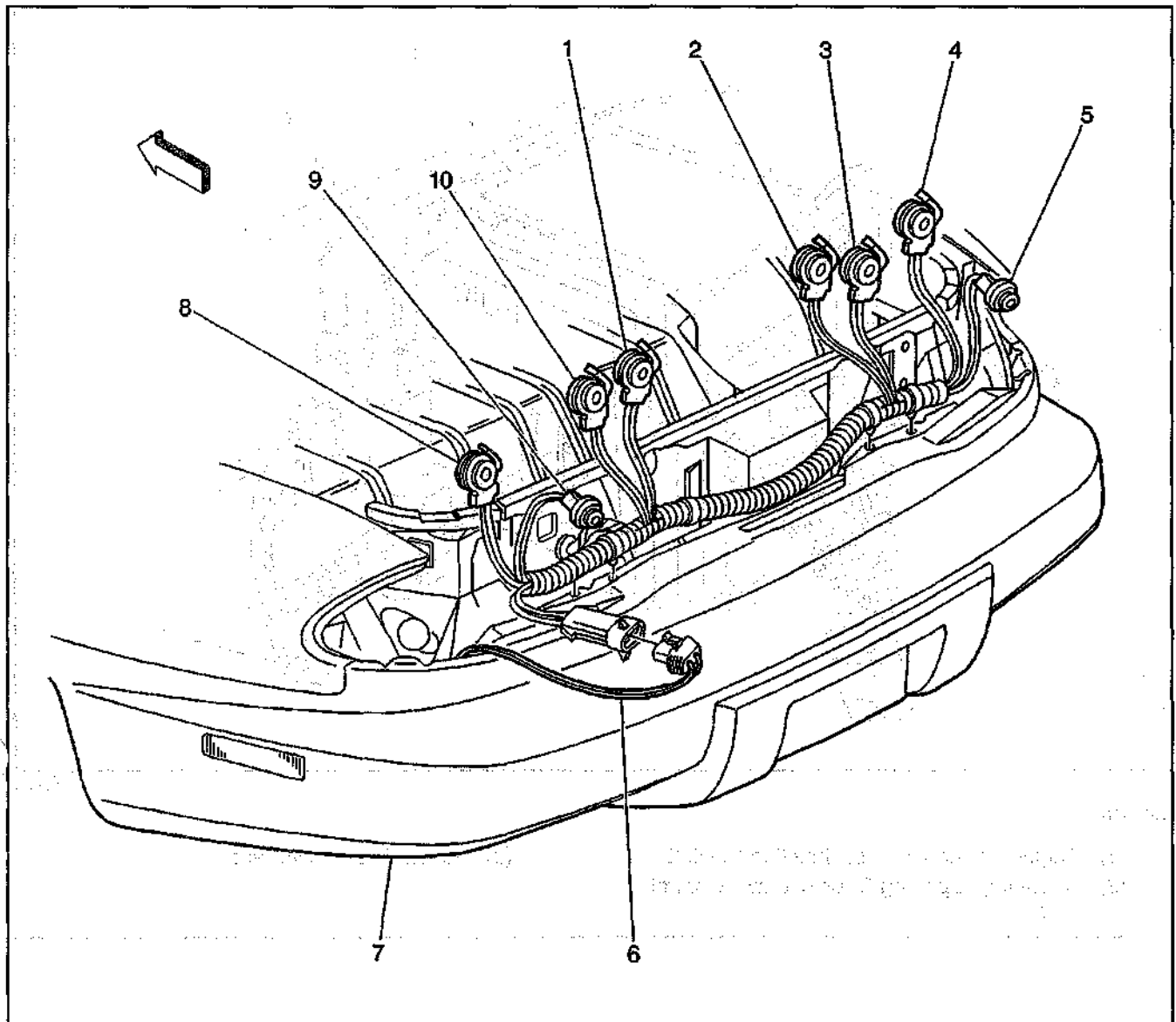


568551

Legend

- | | |
|-------------------------|--|
| (1) Right Rear Fog Lamp | (4) Rear License Plate and Rear Marker Lamp Wiring Harness |
| (2) Left Rear Fog Lamp | |
| (3) Rear Fascia | |

Rear Body

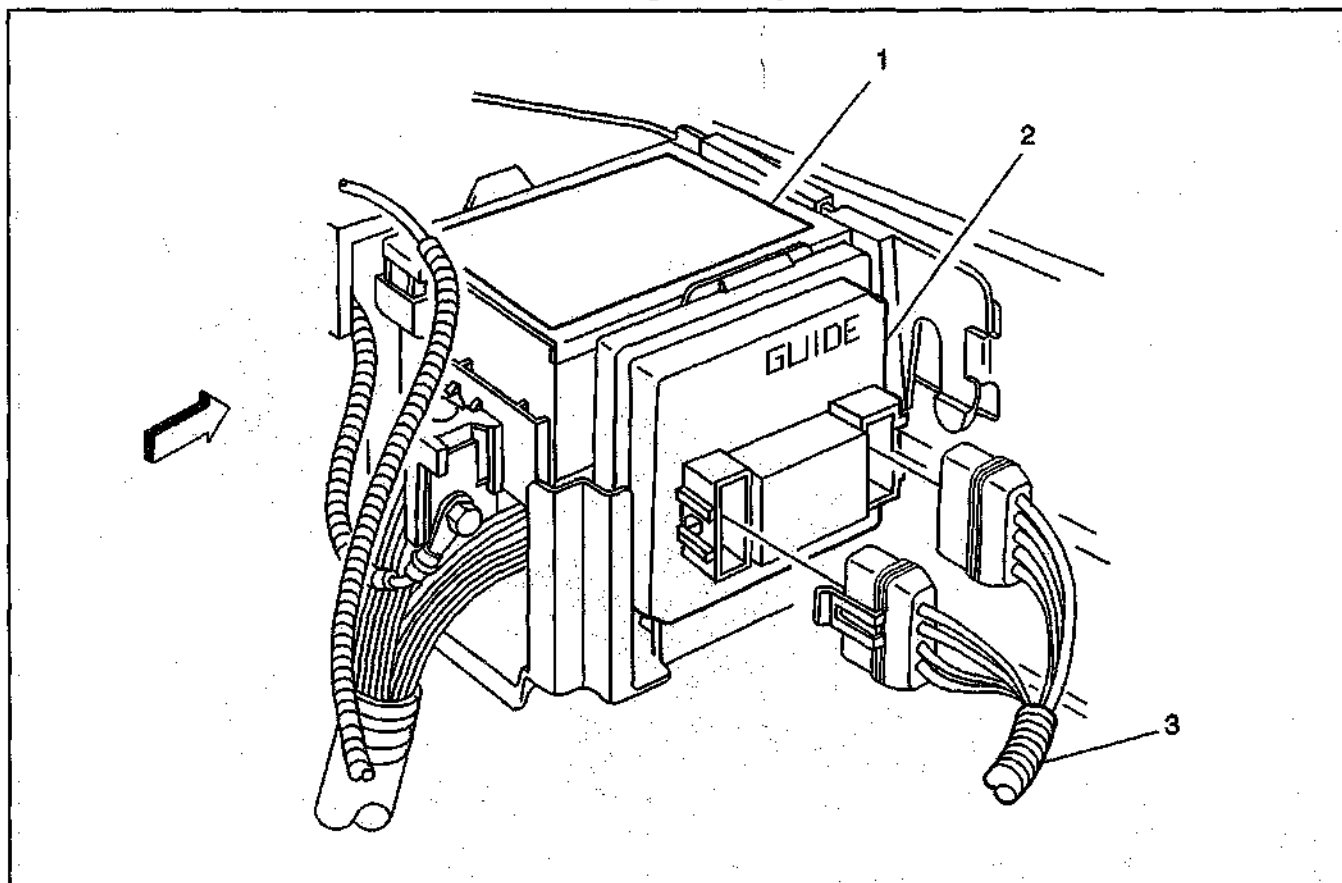


374204

Legend

- | | |
|-------------------------------------|---|
| (1) Backup Lamp, Left Side | (6) Rear Fascia Harness |
| (2) Backup Lamp, Right Side | (7) Rear Fascia |
| (3) Tail Lamp Right Side Inboard | (8) Tail/Stop/Turn Lamp, Left Side Outboard |
| (4) Tail/Stop/Turn Lamp, Right Side | (9) Tail Lamp Left Side Outboard |
| (5) Tail Lamp Right Side Outboard | (10) Tail Lamp Left Side Inboard |

Left Front Engine Compartment



589543

Legend

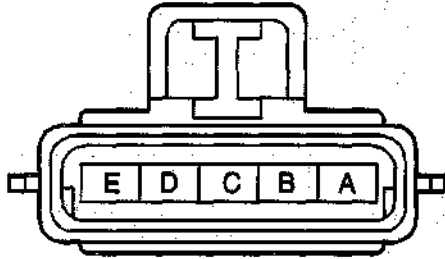
- (1) Engine Wiring Harness Junction Block 2
- (2) Headlamp Opening Door Actuator Control Module

- (3) Forward Lamp Harness

Visual Identification

Lighting Systems Connector End Views

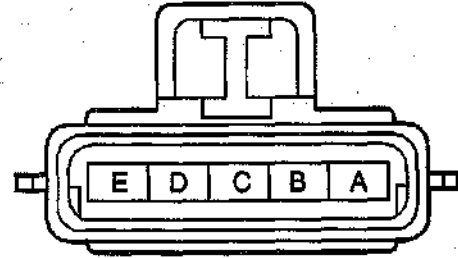
C160 (LH) Connector for Headlamp Door Motor, Headlamp Opening Door Assembly (Pontiac)



243503

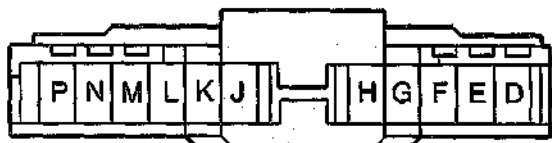
Connector Part Information		• 1208-4891 • 5-Way F Metri-pack 280 Series (GRY)	
Pin	Wire Color	Circuit No.	Function
A	DK GRN	577	LH Headlamp Door-Close
B	LT GRN	576	LH Headlamp Door-Open
C	YEL	10	Low Beam Power Input
D	LT GRN	11	High Beam Power Input
E	BLK	150	Ground

C165 (RH) Connector for Headlamp Door Motor, Headlamp Opening Door Assembly (Pontiac)



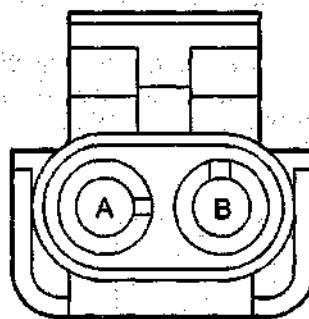
243503

Connector Part Information		• 1208-4891 • 5-Way F Metri-pack 280 Series (GRY)	
Pin	Wire Color	Circuit No.	Function
A	DK BLU	579	RH Headlamp Door-Close
B	LT BLU	578	RH Headlamp Door-Open
C	YEL	10	Low Beam Power Input
D	LT GRN	11	High Beam Power Input
E	BLK	250	Ground

C216 Connector for Ignition Key Warning Switch, Turn/Hazard Switch Assembly

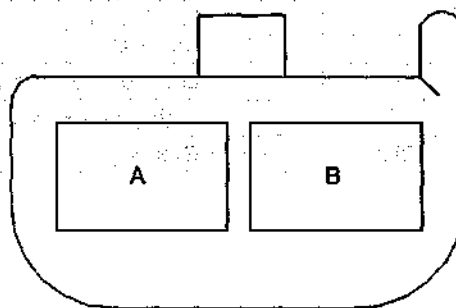
524869

Connector Part Information		• 1200-4147 • 11-Way F Pack-Con (BLK)	
Pin	Wire Color	Circuit No.	Function
D	—	—	Not Used
E	BLK	650	Ground
F	LT GRN	80	Key Reminder Switch Signal
G	BLK	28	Horn Relay Output-Coil
H	LT BLU/ WHT	1414	Turn Signal Switch Output-Left Front
H	LT BLU	14	(Europe, Japan) Turn Signal Lamp Feed-Left Front
J	DK BLU/ WHT	1415	Turn Signal Switch Output-Right Front
J	DK BLU	15	(Europe, Japan) Turn Signal Lamp Feed-Right Front
K	BRN	27	Hazard Flasher Output
L	PPL	16	Turn Signal Flasher Output
M	YEL	18	Stop/Turn Lamp Feed-Left Rear
M	PPL	709	(Japan) Park Lamp Feed-Left
N	DK GRN	19	Stop/Turn Lamp Feed-Right Rear
N	BRN/WHT	309	(Japan) Park lamp feed-right
P	BRN	9	(Japan) Park Lamp Feed
P	LT BLU	20	(Pontiac) Stop Lamp Feed

Backup Lamp Switch

316604

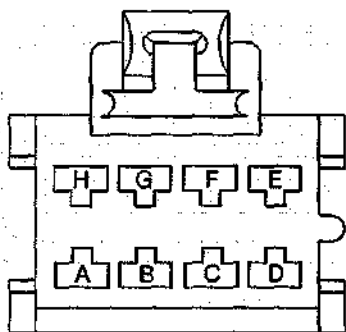
Connector Part Information		• 1210-3584 • 2-Way M Weather pack (BRN)	
Pin	Wire Color	Circuit No.	Function
A	BRN	141	Fused Input Feed
B	LT GRN	24	Fused Output to Backup Lamps

Daytime Running Lamps (DRL) Ambient Light Sensor

82383

Connector Part Information		• 1204-7662 • 2-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	YEL/BLK	1138	Light Sensor Output
A	LT GRN/ BLK	1137	(Pontiac: Convertible) Light Sensor Output
B	LT GRN/ BLK	1137	Light Sensor Output

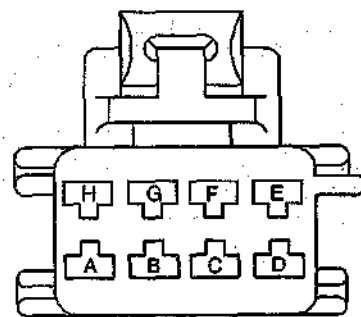
Daytime Running Lamps (DRL) Module Connector C1



62469

Connector Part Information		• 1206-4998 • 8-Way F Metri-pack 280 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	ORN	240	Fused Input Feed
B	LT BLU	14	Park/Turn Signal Lamp Output-Left Front
C	DK BLU	15	Park/Turn Signal Lamp Output-Right Front
D	RED	1372	Fused Input Feed
E	LT BLU/ WHT	1414	Turn Signal Switch Output-Left Front
F	YEL	10	Headlamp Output
G	DK BLU/ WHT	1415	Turn Signal Switch Output-Right Front
H	BRN	9	Exterior Light Output

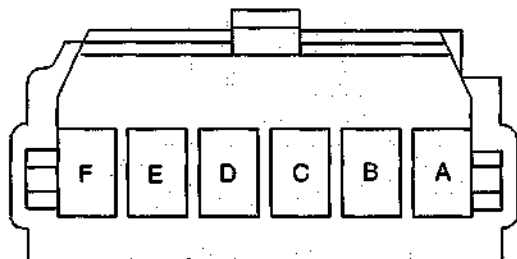
Daytime Running Lamps (DRL) Module Connector C2



62463

Connector Part Information		• 1206-4766 • 8-Way F Metri-pack 150 Series (BLU)	
Pin	Wire Color	Circuit No.	Function
A	BLK	650	Ground
B	—	—	Not Used
C	PNK	39	Fused Input Feed
D	TAN/WHT	33	Brake Warning Indicator Output
E	LT BLU	1134	Park Brake Switch Signal Input
F	BRN	141	Fused Input Feed
G	LT GRN/ BLK	1137	Ambient Light Sensor Input
H	YEL/BLK	1138	Ambient Light Sensor Input
H	LT GRN/ BLK	1137	(Pontiac: Convertible) Ambient Light Sensor Input

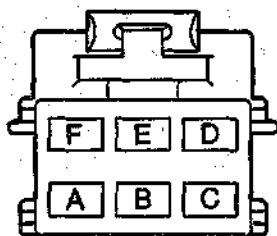
Diode Network (Europe)



95720

Connector Part Information		• 1204-0549 • 6-Way P/C Edgeboard-STD (GRY)	
Pin	Wire Color	Circuit No.	Function
A	YEL	1870	Rear Fog Lamp Relay Output
B	YEL	317	Fog Lamp Switch Input
C	YEL	10	Headlamp Leveling Input
D-F	—	—	Not Used

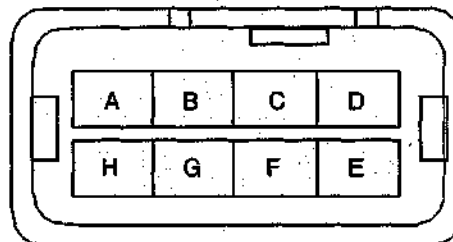
Fog Lamp Switch (Chevrolet)



40422

Connector Part Information		• 1206-4762 • 6-Way F Metri-Pack 150 Series (GRY)	
Pin	Wire Color	Circuit No.	Function
A	LT GRN	11	Headlight Ground Feed Input
A	BLK	650	(Europe) Ground
B	BLK	650	Ground
C	GRY	8	Fused Input Feed
D	—	—	Not Used
E	BRN	9	Headlight Feed Input
F	YEL	317	Fog Lamp Relay Feed Output

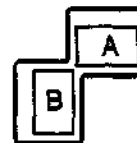
Fog Lamp Switch (Pontiac)



62434

Connector Part Information		• 1204-5688 • 8-Way M Metri-Pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	YEL	317	Fog Lamp Relay Feed Output
B	PPL	34	Fog Lamp Relay Feed Input
C	—	—	Not Used
D	BRN	9	Headlight Feed Input
E	—	—	Not Used
F	GRY	8	Fused Input Feed
G	BLK	650	Ground
H	—	—	Not Used

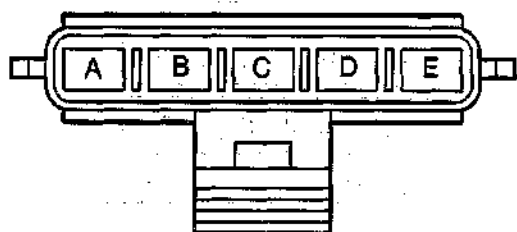
Hazard Lamp Flasher



333032

Connector Part Information		• 0628-8951 • 2-Way F 56 Series (RED)	
Pin	Wire Color	Circuit No.	Function
A	ORN	140	Fused Input Feed
B	BRN	27	Hazard Switch Fused Output

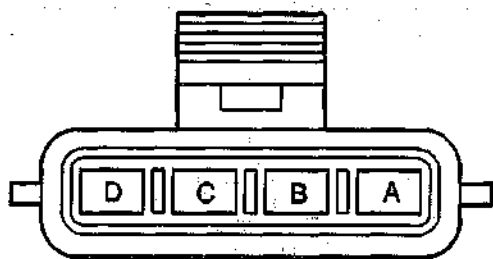
Headlamp Opening Door Actuator Control Module Connector C1 (Pontiac)



324845

Connector Part Information		• 1530-0030 • 5-Way F Metri-pack 280 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	YEL	10	Headlights Feed Input
B	ORN	840	Fused Input Feed
C	BRN	9	Headlights Feed Input
D	BLK	150	Ground
E	ORN	740	Fused Input Feed

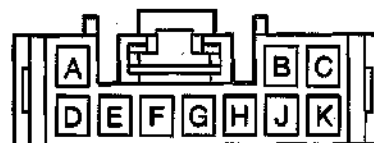
Headlamp Opening Door Actuator Control Module Connector C2 (Pontiac)



324847

Connector Part Information		• 1530-0029 • 4-Way F Metri-pack 280 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	DK BLU	579	RH Headlamp Door Motor-Close Output
B	LT BLU	578	RH Headlamp Door Motor-Open Output
C	LT GRN	576	LH Headlamp Door Motor-Open Output
D	DK GRN	577	LH Headlamp Door Motor-Close Output

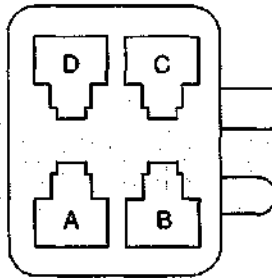
Headlamp Switch



290780

Connector Part Information		• 1212-9077 • 10-Way F Metri-pack 280 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	RED/WHT	1372	(Europe: Scandinavia) DRL Relay Fused Output
B	BRN	141	(Europe: Scandinavia) Fused Input Feed
C	BRN	9	Exterior Lights Feed Output
C	ORN	240	(Europe: Scandinavia) Fused Input
D	BLK	650	Ground
E	YEL	10	Headlight Feed Output
F	GRA	8	Headlight Switch Illumination Input
G	RED	1372	(Domestic, Gulf States) DRL Module Fused Feed Output
H	BRN	9	(Europe: Scandinavia) Exterior Lights Feed Output
H	ORN	240	Fused Input Feed
J	RED	702	Battery Input Feed
K	—	—	Not Used

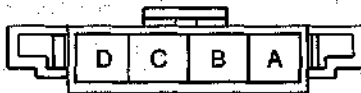
Inside Rearview Mirror



39660

Connector Part Information		• 1204-7785 • 4-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	WHT	156	BCM Courtesy Lamp Return Input
B	BLK	750	Ground
C	DK BLU/ WHT	149	BCM Courtesy Lamp Feed Input
D	—	—	Not Used

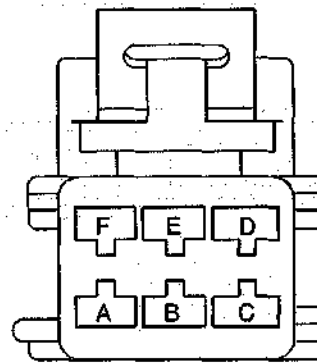
IP Dimmer Switch



38618

Connector Part Information		• 1203-4060 • 4-Way F Metri-pack 480 Series (NAT)	
Pin	Wire Color	Circuit No.	Function
A	BRN	9	Exterior Light Feed Input
B	BLK	650	Ground
C	GRY	157	BCM Interior Lamp Feed Output
D	DK GRN	44	IP Lamp Feed Output

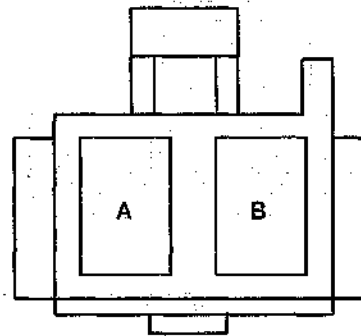
Rear Fog Lamp Switch (Europe)



40446

Connector Part Information		• 1217-7194 • 6-Way F Metri-pack 150 Series (NAT)	
Pin	Wire Color	Circuit No.	Function
A	RED	122	Fog Lamp Indicator Feed Fused Input
B	BLK	650	Ground
C	GRY	8	Fog Lamp Switch Illumination Feed Fused Input
D	—	—	Not Used
E	LT BLU	187	BCM Fog Lamp Feed Input
F	BLK	650	Ground

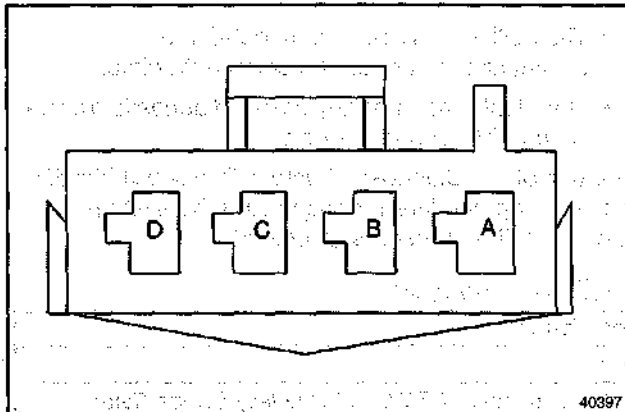
Stop Lamp/TCC Switch Connector C1



73251

Connector Part Information		• 1203-3701 • 2-Way F Metri-pack 480 Series (GRY)	
Pin	Wire Color	Circuit No.	Function
A	ORN	140	Fused Input Feed
B	LT BLU	20	Fused Output Feed

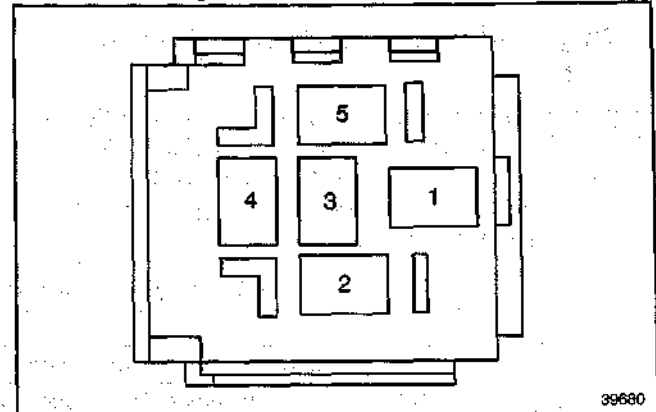
Stop Lamp/TCC Switch Connector C2



40397

Connector Part Information		• 1203-3706 • 4-Way F Metri-pack 208 Series (BLU)	
Pin	Wire Color	Circuit No.	Function
A	PNK	39	(M30) Fused Input Feed
B	DK GRN/ WHT	1135	(M30) Auto Trans Shift Lock Control Feed Output
C	PNK	539	Fused Input Feed
D	PPL	420	Brake Pedal Switch Feed Output-Torque Converter Clutch

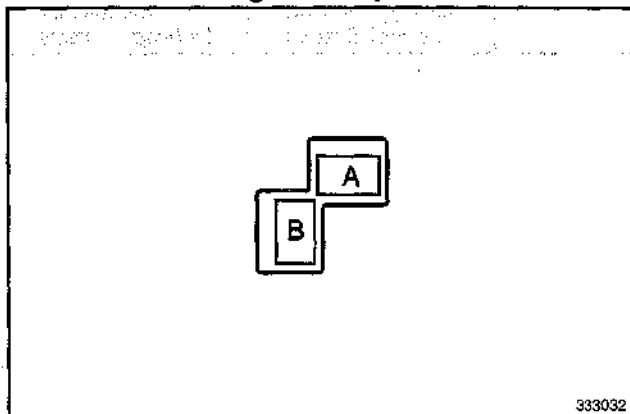
Turn Signal Lamp Flasher (Europe)



39680

Connector Part Information		• 1210-3751 • 5-Way F Metri-pack 630 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
1	—	—	Not Used
2	BRN	141	Fused Input Feed
3	—	—	Not Used
4	PPL	16	Turn/Hazard Feed Output
5	BLK	650	Ground

Turn Signal Lamp Flasher



333032

Connector Part Information		• 0628-8951 • 2-Way F 56 Series (RED)	
Pin	Wire Color	Circuit No.	Function
A	BRN	141	Fused input feed
B	PPL	16	Turn signal feed output

Diagnostic Information and Procedures

A Diagnostic Starting Point - Lighting Systems

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

- The identification of the control module(s) which command the system.

- The ability of the control module(s) to communicate through the serial data circuit.
- The identification of any stored diagnostic trouble codes (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.

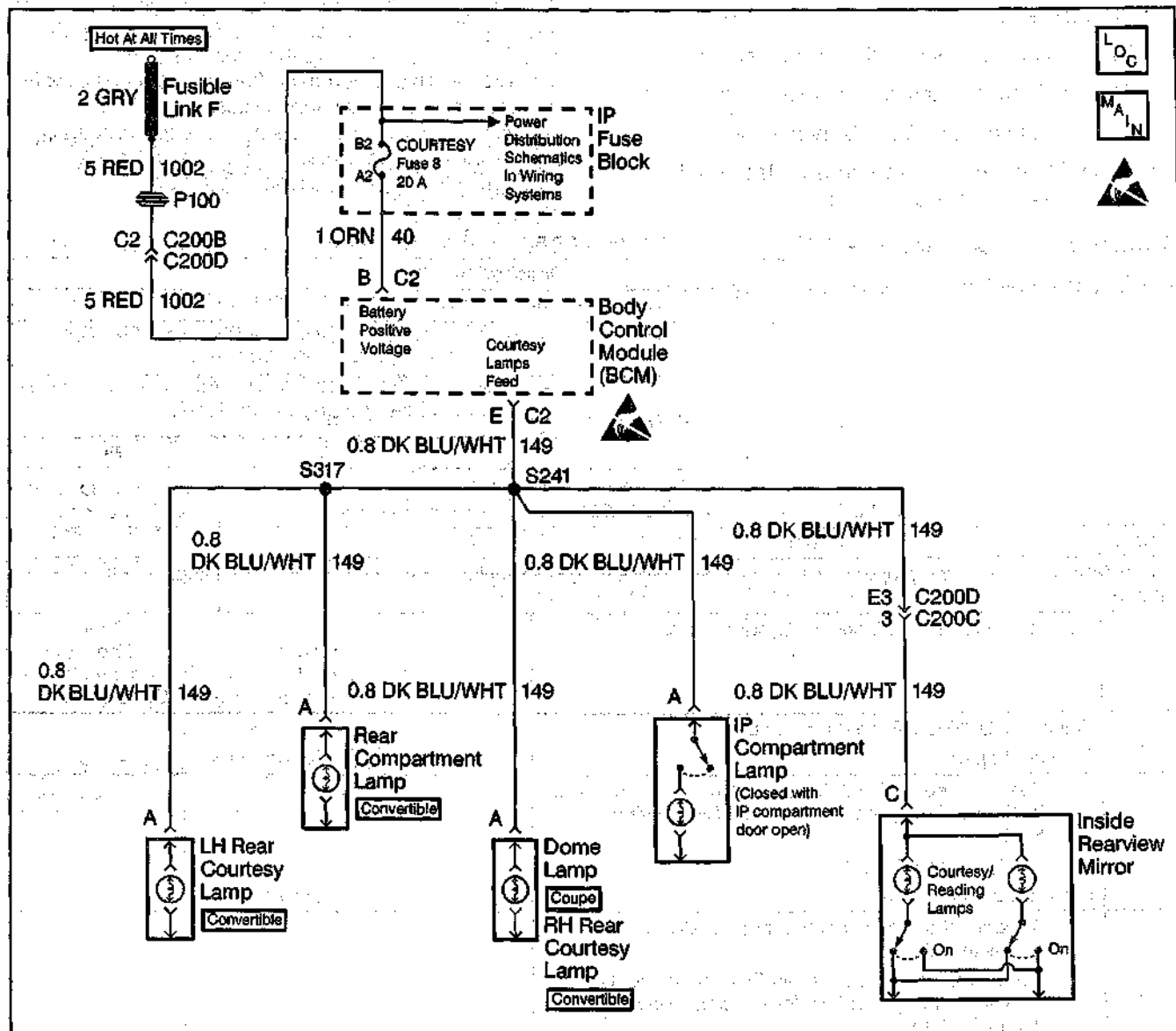
Diagnostic Trouble Code (DTC) List/Type

DTC	Description
21/31	DTC 21/31 Courtesy Lamps Feed Shorted to Ground
22/32	DTC 22/32 Courtesy Lamps Return Shorted to Battery (Coupe) or DTC 22/32 Courtesy Lamps Return Shorted to Battery (Convertible)

A Diagnostic System Check - Lighting Systems

Step	Action	Yes	No
1	Attempt to operate the rear compartment lid release and the power door locks. Are the rear compartment lid release and the power door locks operational?	Go to Step 2	Go to Cannot Enter BCM Diagnostics in Body Control Systems
2	Check for body control module (BCM) DTCs. Refer to <i>Diagnostic Trouble Code (DTC) Displaying</i> in Body Control Systems. Does the BCM flash any of the following codes: • DTC 21/31 • DTC 22/32	Go to Diagnostic Trouble Code (DTC) List/Type	Go to Step 3
3	Does the BCM flash any other DTCs?	Go to Diagnostic Trouble Code (DTC) List/Type in Body Control System	Go to Symptoms - Lighting Systems

DTC 21/31 Courtesy Lamps Feed Shorted to Ground



506912

Circuit Description

The body control module (BCM) provides a 12 volt output to the courtesy lamps on circuit 149 through S241 when the BCM is in the awake state. Ground is applied to the courtesy lamps by the BCM though circuit 156 when commanded by one of the following components:

- The instrument panel (IP) dimmer switch
- The left side door lock
- The right side door lock
- The rear compartment lid ajar indication switch

S241 distributes power to the following lamps on the coupe model:

- The dome lamp
- The courtesy/reading lamp

S241 distributes power to the following lamps on the convertible model:

- S317 (the left rear courtesy lamp and the rear compartment lamp)
- The right rear courtesy lamp
- The IP compartment lamp
- The courtesy/reading lamps

Conditions for Setting the DTC

- Circuit 40/1002 is open due to defective Courtesy Fuse 8.
- There is a harness or connector failure.
- Circuit 149 (courtesy lamps feed) is shorted to the ground for greater than 50 milliseconds while the BCM is attempting to power the circuit.
- The BCM is defective.

Action Taken When the DTC Sets

- DTC 21 will set.
- There is no courtesy lighting in the vehicle.
- The IP dimmer switch is inoperative.
- The IP compartment lamp is inoperative.
- The BCM will read out a series of flash DTCs upon entering diagnostic mode.

Conditions for Clearing the DTC

The fault is corrected and the DTC memory is cleared.

Diagnostic Aids

If the only DTC that flashes is a history code (DTC 31), the problem may be intermittent. Try performing the test shown while wiggling the wiring and the connectors. This action can often cause the fault to appear. Test for poor connections at the BCM connector. Poor connections may cause an open or an intermittent fault. Refer to *Diagnostic Trouble Code (DTC) Displaying* Displaying DTCs

Test Description

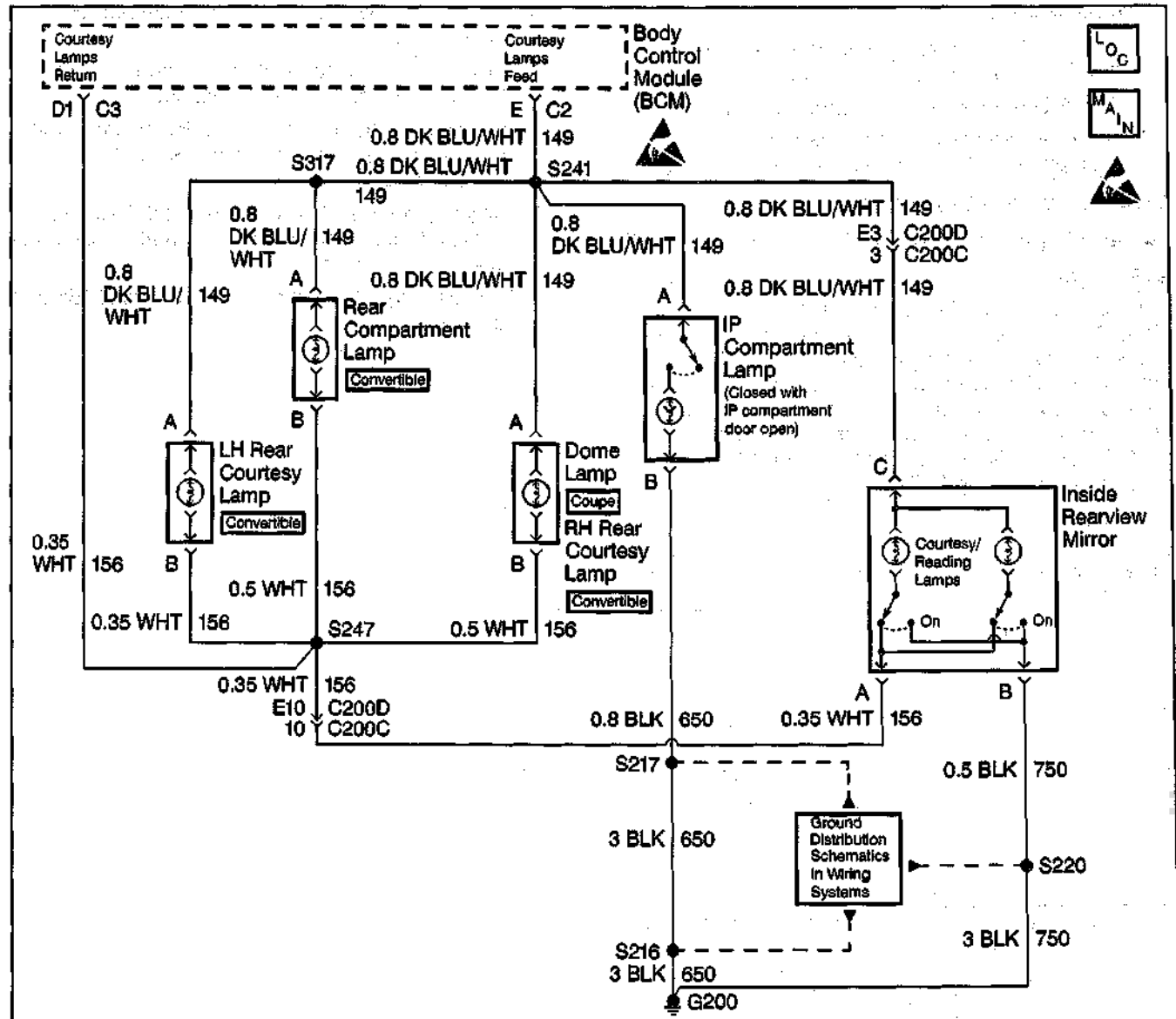
The numbers below refer to the step numbers on the diagnostic table.

2. This step tests for an open COURTESY Fuse 8.
3. If COURTESY Fuse 8 is open, this step tests for a short to the ground on circuit 40.
4. If COURTESY Fuse 8 is OK, this step tests for an open in circuit 40 and circuit 1002.
6. This step tests for a short to the ground in circuit 149.

DTC 21/31 Courtesy Lamps Feed Shorted to Ground

Step	Action	Value(s)	Yes	No
Important: Inspect for the proper installation of aftermarket electronic equipment which may affect the integrity of the system.				
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	Check COURTESY Fuse 8 for an open. Is Fuse 8 open?	—	Go to Step 3	Go to Step 4
3	1. Test and repair circuit 40 for a short to ground. Refer to <i>Circuit Testing and Wiring Repairs</i> in Wiring Systems. 2. If OK, replace Fuse 8. Is the repair complete?	—	System OK	—
4	1. Disconnect the body control module (BCM) connector C2. 2. Connect a test lamp between BCM connector C2 terminal B and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 5
5	Repair the open in circuit 40 or circuit 1002. Refer to <i>Wiring Repairs</i> in Wiring Systems. Is the repair complete?	—	System OK	—
6	1. Close the instrument panel compartment. 2. Connect a DMM between BCM connector C2 terminal E and ground. B and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the meter read the specified value?	0 Ω	Go to Step 6	Go to Step 7
7	Repair the short to ground in circuit 149. Refer to <i>Wiring Repairs</i> in Wiring Systems. Is the repair complete?	—	System OK	—
8	Important: Perform the set up procedure for the body control module (BCM). Replace the BCM. Refer to <i>Body Control Module Replacement</i> in Body Control System. Did you complete the repair.	—	System OK	—

DTC 22/32 Courtesy Lamps Return Shorted to Battery (Coupe)



Circuit Description

The following inputs command the body control module (BCM) to provide a ground path to the courtesy lamps through circuit 156 to S247:

- The instrument panel (IP) dimmer switch input
- The right side door lock input
- The left side door lock input
- The rear compartment lid ajar indication switch input

S247 distributes the ground through circuit 156 to the following components:

- The dome lamp
- The courtesy/reading lamps

Conditions for Setting the DTC

Circuit 156 (courtesy lamps return) is shorted to B+ for greater than 50 milliseconds, while the BCM is attempting to ground the circuit. The BCM grounds circuit 156 if one of the following actions occurs:

- Either door is opened.
- The rear compartment lid is opened.
- The IP dimmer switch is turned on.

Action Taken When the DTC Sets

- DTC 22 will set.
- There is no courtesy lighting in the vehicle.
- The IP dimmer switch is inoperative.
- The IP compartment lamp operates normally.
- The BCM will read out a series of flash codes upon entering the diagnostic mode.

Conditions for Clearing the DTC

The fault is corrected and the DTC memory is cleared.

Diagnostic Aids

If the only DTC that flashes is a HISTORY code (DTC 32), the problem may be intermittent. Perform the test shown while wiggling the wiring and connectors. This can often cause the fault to appear. Test for a poor connections at the BCM connector, which could cause an open or an intermittent fault. Refer to *Diagnostic Trouble Code (DTC) Displaying* Displaying DTCs.

Test Description

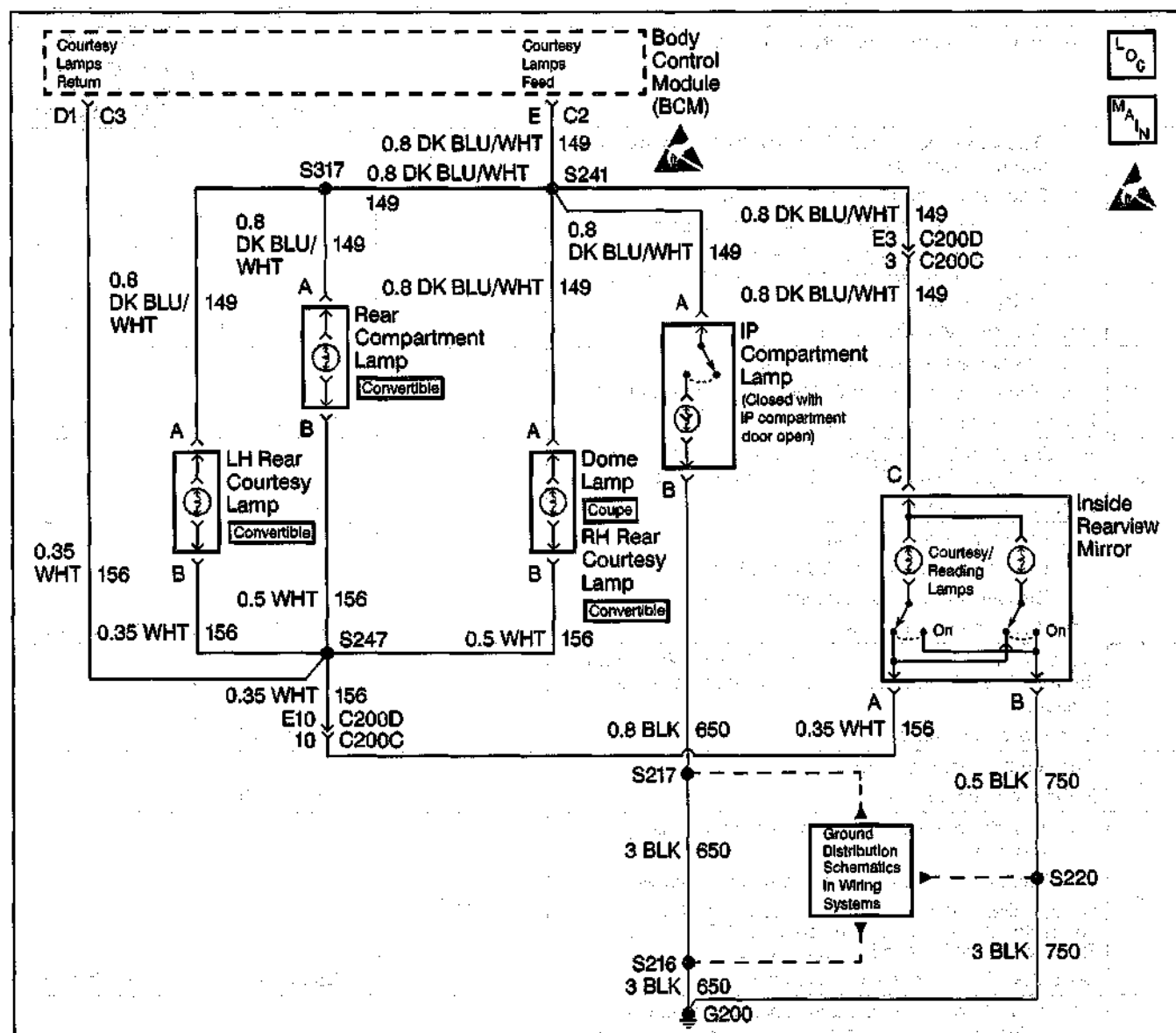
The numbers below refer to the step numbers on the diagnostic table.

2. This step tests circuit 156 for a short to B+ with the body control module disconnected.
3. Knowing that there is a short to B+ in circuit 156, this test isolates the short to one side of connector C200.
5. Knowing that the short is in the C200C side of circuit 156, this test isolates the short to either the harness or the rearview mirror.
8. This step tests for a short between circuit 156 and circuit 149.

DTC 22/32 Courtesy Lamps Return Shorted to Battery (Coupe)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Disconnect body control module (BCM) connector C2 and connector C3. 2. Close the instrument panel compartment. 3. Turn the ignition switch to the RUN position. 4. Connect a test lamp from BCM connector C3 terminal D1 to ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 3	Go to Step 8
3	1. Leave the test lamp connected. 2. Disconnect connector C200C from connector C200D. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Repair a short B+ in circuit 156, between C200D and the BCM. Refer to <i>Wiring Repairs</i> in Wiring Systems. Is the repair complete?	—	System OK	—
5	1. Leave the test lamp connected. 2. Connect connector C200C to C200D. 3. Disconnect the rearview mirror connector. Does the test lamp illuminate?	—	Go to Step 5	Go to Step 6
6	Repair a short to B+ in circuit 156, between C200C and the rearview mirror. Refer to <i>Wiring Repairs</i> in Wiring Systems. Is the repair complete?	—	System OK	—
7	Replace the rearview mirror. Is the repair complete?	—	System OK	—
8	1. Turn the rearview mirror courtesy/reading lamp switches on. 2. Remove the bulb from the dome lamp socket. Using a DMM, test the resistance between BCM connector C2 terminal E and connector C3 terminal D1. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the DMM read infinite resistance?	Infinite	Go to Step 9	Go to Step 10
9	1. Inspect and repair the lamp sockets for conditions which could cause the socket to short with the bulb installed. 2. Inspect and repair exposed filament wires on the base of the bulbs for a shorted condition. Did you find and repair either condition?	—	System OK	Go to Step 11
10	Repair the short between circuit 156 and circuit 149. Refer to <i>Wiring Repairs</i> in Wiring Systems. Is the repair complete?	—	System OK	—
11	Important: Perform the set up procedure for the body control module (BCM). Replace the BCM. Refer to <i>Body Control Module Replacement</i> in Body Control System. Did you complete the replacement?	—	System OK	—

DTC 22/32 Courtesy Lamps Return Shorted to Battery (Convertible)



506914

Circuit Description

The following inputs command the body control module (BCM) to provide a ground path to the courtesy lamps through circuit 156 to S247:

- The instrument panel (IP) dimmer switch input
- The right side door lock input
- The left side door lock input
- The rear compartment lid ajar indication switch

S247 distributes the ground through circuit 156 to the following components:

- The right and left rear courtesy lamps
- The rear compartment lamp
- The courtesy/reading lamps

Conditions for Setting the DTC

Circuit 156 (courtesy lamps return) is shorted to B+ for greater than 50 milliseconds, while the BCM is attempting to ground the circuit. The BCM grounds circuit 156 if one of the following actions occurs:

- Either door is opened.
- The rear compartment lid is opened.
- The IP dimmer switch is turned on.

Action Taken When the DTC Sets

- DTC 22 will set.
- There is no courtesy lighting in the vehicle.
- The IP dimmer switch is inoperative.
- The IP compartment lamp operates normally.
- The BCM will read out a series of flash codes upon entering the diagnostic mode.

Conditions for Clearing the MIL/DTC

The fault is corrected and the DTC memory is cleared.

Diagnostic Aids

If the only DTC that flashes is a HISTORY code (DTC 32), the problem may be intermittent. Perform the test shown while wiggling the wiring and connectors. This can often cause the fault to appear. Test for a poor connections at the BCM connector, which could cause an open or an intermittent fault. Refer to *Diagnostic Trouble Code (DTC) Displaying Displaying DTCs*.

Test Description

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

2. This step tests circuit 156 for a short to B+ with the body control module disconnected.
3. Knowing that there is a short to B+ in circuit 156, this test isolates the short to one side of connector C200.
5. Knowing that the short is in the C200C side of circuit 156, this test isolates the short to either the harness or the rearview mirror.
8. This step tests for a short between circuit 156 and circuit 149.

DTC 22/32 Courtesy Lamps Return Shorted to Battery (Convertible)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Disconnect the body control module (BCM) connector C2 and the body control module (BCM) connector C3. 2. Close the instrument panel compartment. 3. Turn the ignition switch to the RUN position. 4. Connect a test lamp from BCM connector C3 terminal D1 to ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 3	Go to Step 8
3	1. Leave the test lamp connected. 2. Disconnect connector C200C from connector C200D. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Repair a short B+ in circuit 156, between C200D and the BCM. Refer to <i>Wiring Repairs</i> in Wiring Systems. Is the repair complete?	—	System OK	—
5	1. Leave the test lamp connected. 2. Connect connector C200C to C200D. 3. Disconnect the rearview mirror connector. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	Repair a short to B+ in circuit 156, between C200C and the rearview mirror. Refer to <i>Wiring Repairs</i> in Wiring Systems. Is the repair complete?	—	System OK	—
7	Replace the rearview mirror. Is the repair complete?	—	System OK	—
8	1. Turn the rearview mirror courtesy/reading lamp switches to the ON position. 2. Remove the bulb from the following areas: • The left rear courtesy lamp socket • The right rear courtesy lamp socket • The rear compartment lamp socket Using a DMM, test the resistance between BCM connector C2 terminal E and connector C3 terminal D1. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the DMM read infinite resistance?	Infinite	Go to Step 9	Go to Step 10
9	1. Inspect and repair the lamp sockets for conditions which could cause the socket to short with the bulb installed. 2. Inspect and repair exposed filament wires on the base of the bulbs for a shorted condition. Did you find and repair either condition?	—	System OK	Go to Step 11
10	Repair the short between circuit 156 and circuit 149. Refer to <i>Wiring Repairs</i> in Wiring Systems. Is the repair complete?	—	System OK	—
11	Important: Perform the set up procedure for the body control module (BCM). Replace the BCM. Refer to <i>Body Control Module Replacement</i> in Body Control System. Did you complete the replacement?	—	System OK	—

Symptoms - Lighting Systems

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

1. Perform *A Diagnostic System Check - Lighting Systems* before using the Symptom Tables in order to verify that there are no DTCs set.
2. Review the system description in order to familiarize yourself with the system functions. Refer to *Lighting System Description*.

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the Lighting System. Refer to *Checking Aftermarket Accessories* in Wiring Systems.
- 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 and Poor Connections* in Wiring Systems.

Symptom List

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

- Backup Lamps Always On (Pont, Chevy Domestic)
- Backup Lamps Inoperative (Pont, Chevy Domestic)
- Backup Lamp Inoperative - One Lamp
- Courtesy Lamps Always On
- Courtesy Lamps Inoperative
- Courtesy Lamps Inoperative with IP Dimmer Switch
- Courtesy/Reading Lamps Inoperative w/ Lamp Switch
- Courtesy Lamps Inoperative with Doors Open
- Courtesy Lamps Inop with Rear Compartment Lid Open
- Courtesy/Reading Lamps Always On
- Courtesy/Reading Lamps Inoperative
- Daytime Running Lamps (DRL) Headlamps Inoperative (Scandinavia)
- Daytime Running Lamps (DRL) Headlamps Inoperative (Pontiac, Chevy Domestic, Gulf States)
- Exterior Lamps Inoperative - All
- Fog Lamps Always On (Pont, Chevy Dom, Gulf States, Japan)
- Fog Lamps Always On (Rear Lamps - Europe)
- Fog Lamps Inoperative - All (Pont, Chevy Dom, Gulf States, Japan)
- Fog Lamps Inoperative - All (Front Lamps - Europe)
- Fog Lamps Inoperative - All (Rear Lamps - Europe)
- Fog Lamps Inoperative - One
- Fog Lamp Switch Illumination Lamp Inoperative (Euro, Pont, Chev Dom, Jap, Gulf State)
- Fog Lamp Indicator Inoperative - Front (Pont, Chevy Dom, Gulf States, Japan)
- Fog Lamp Indicator Inoperative - Front (Front Lamps - Europe)
- Fog Lamp Indicator Inoperative - Front (Rear Lamps - Europe)
- Hazard Lamps Inoperative
- Headlamps Always On - Low or High Beam (Japan, Europe)
- Headlamps Always On - Low or High Beam (Scandinavia)
- Headlamps Always On - Low or High Beam (Pontiac)
- Headlamps Always On - Low or High Beam (Chevrolet Domestic, Gulf States)
- Headlamps Inoperative - Low Beams (Eur, Jap, Chev Dom, Pont, Gulf States)
- Headlamps Inoperative - Low Beams (Scandinavia)
- Headlamps Inoperative - High Beams
- Headlamps Inoperative - One Lamp (Pontiac)
- Headlamps Inoperative - One Lamp (Chev Dom, Gulf States, Jap, Eur, Scan)
- Headlamps Inoperative - Low and High Beams (Pontiac)
- Headlamps Inoperative - Low and High Beams (Chev Dom, Gulf States, Eur, Scan, Jap)
- Headlamps Inoperative in Low Light Conditions (Pontiac, Chevy Dom, Gulf States)
- Headlamps, Parklamps, Daytime Running Lamps (DRL) On with Park Brake Applied
- Headlamp Door(s) Inoperative
- Headlamp Doors Inoperative - One Door (Pontiac)
- Headlight Leveling Inoperative - One Actuator (Europe)
- Headlight Leveling Inoperative (Europe)
- Headlight Leveling Inop - Actuator Switch Illum (Europe)
- High Beam Indicator Always On
- High Beam Indicator Inoperative
- IP Compartment Lamp Inoperative
- Instrument Panel Lamps Do Not Dim
- Instrument Panel Lamps Inoperative
- Instrument Panel Lamps Inoperative - One
- Park Lamps Inoperative (with DRL Scandinavia)
- Park Lamps Inoperative - Left
- Park Lamps Inoperative - Right
- Park/Turn Lamps Inoperative - Front

- Park/Turn Lamps Inoperative - One Front
- Position Lamps Inoperative - Left
- Side Marker Lamp Inoperative - One Lamp
- Stop Lamps Inoperative - All
- Stop Lamps Inoperative - One
- Stop Lamps Inoperative - CHMSL Operates
- Stop Lamps Inoperative - Center High Mounted
- Stop Lamps Always On
- Tail Lamps Inoperative - LR
- Tail Lamps Inoperative - RR
- Turn Signal Lamps Inoperative
- Turn Signal Lamp Inoperative - LF
- Turn Signal Lamp Inoperative - RF
- Turn Signal and Hazard Lamps Inoperative
- Turn Signal Lamps Inoperative - LR
- Turn Signal Lamp Inoperative - RR
- Turn Lamps Always On
- Turn Signal Indicator Always On - Left
- Turn Signal Indicator Always On - Right
- Turn Signal Indicators Inoperative - Left
- Turn Signal Indicators Inoperative - Right
- VF Displays Do Not Change with Park Lamps On
- VF Display Inoperative - Radio

Backup Lamps Always On (Pont, Chevy Domestic)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	Place the vehicle in PARK or NEUTRAL. Do the backup lamps remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Inspect to determine if the vehicle is equipped with a manual transmission or an automatic transmission. Is the vehicle equipped with a manual transmission?	—	Go to Step 4	Go to Step 5
4	Disconnect the backup lamp switch. Are the backup lamps still on?	—	Go to Step 6	Go to Step 7
5	Disconnect the park/neutral position switch. Are the backup lamps still on?	—	Go to Step 6	Go to Step 8
6	Repair the short to battery voltage in the supply voltage circuit of the backup lamps. Refer to <i>Wiring Repairs</i> in <i>Wiring Systems</i> . Did you complete the repair?	—	Go to Step 9	—
7	Replace the backup lamp switch. Refer to <i>Backup Lamp Switch Replacement</i> in <i>Manual Transmission - M49</i> or <i>Backup Lamp Switch Replacement</i> in <i>Manual Transmission - MM6</i> . Did you complete the replacement?	—	Go to Step 9	—
8	Adjust or replace the park/neutral position switch. Refer to <i>Park/Neutral Position Switch Adjustment</i> or <i>Park/Neutral Position Switch Replacement</i> in <i>Automatic Transmission</i> . Did you complete the adjustment or 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

Backup Lamps Inoperative (Pont, Chevy Domestic)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Place the ignition in the RUN position. 2. Set the park brake. 3. Apply the brake pedal. 4. Place the transmission in the REVERSE position. Are the back up lamps illuminated?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Leave the ignition in the RUN position. 2. Leave the park brake set. 3. Continue to apply the brake pedal. 4. Leave the transmission in the REVERSE position. 5. Connect a test lamp between connector C400 terminal F and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Connect a test lamp between the backup lamp, LH connector terminals A and G. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
5	Determine if the vehicle has a manual transmission or an automatic transmission. Does the vehicle have a manual transmission?	—	Go to Step 10	Go to Step 11
6	Replace the backup lamps. Refer to <i>Backup Lamp Bulb Replacement (Pontiac)</i> or <i>Backup Lamp Bulb Replacement (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 17	—
7	Connect a test lamp between the backup lamp, LH connector terminals A and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test light illuminate?	—	Go to Step 8	Go to Step 9
8	Repair a poor connection or an open in the backup lamp ground circuit. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 17	—
9	Repair a poor connection or an open in the supply voltage circuit of the backup lamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 17	—
10	Connect a test lamp between the backup lamp switch connector terminal B and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 9	Go to Step 12
11	Connect a test lamp between the park/neutral position switch connector terminal C and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 15	Go to Step 14
12	1. Place the transmission in the PARK position. 2. Turn the ignition switch to the OFF position. 3. Disconnect the backup lamp switch. 4. Turn the ignition switch to the RUN position. 5. Connect a test lamp between the backup lamp connector terminal A and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 13	Go to Step 14

Backup Lamps Inoperative (Pont, Chevy Domestic) (cont'd)

Step	Action	Value(s)	Yes	No
13	Replace the backup lamp switch. Refer to <i>Backup Lamp Switch Replacement</i> in Manual Transmission - M49 or <i>Backup Lamp Switch Replacement</i> in Manual Transmission - MM6. Did you complete the replacement?	—	Go to Step 17	—
14	Repair an open or a poor connection in the ignition 3 voltage circuit of the backup lamp switch or the park/neutral position switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 17	—
15	Connect a test lamp between the park/neutral position switch connector terminal D and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 9	Go to Step 16
16	Adjust or replace the park/neutral position switch. Refer to <i>Park/Neutral Position Switch Adjustment</i> or <i>Park/Neutral Position Switch Replacement</i> in Automatic Transmission. Did you complete the adjustment or the replacement?	—	Go to Step 17	—
17	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Backup Lamp Inoperative - One Lamp

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Place the ignition in the RUN position. 2. Set the park brake. 3. Apply the brake pedal. 4. Place the transmission in the REVERSE position. Do the back up lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the inoperative lamp. 2. Connect a test lamp between the supply voltage circuit of the inoperative lamp and the ground circuit of the inoperative lamp. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the inoperative lamp. Refer to <i>Backup Lamp Bulb Replacement</i> (Pontiac) or <i>Backup Lamp Bulb Replacement</i> (Chevrolet). Did you complete the replacement?	—	Go to Step 8	—
5	Connect a test lamp between the supply voltage circuit of the inoperative lamp and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the ground circuit of the inoperative lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage circuit of the inoperative lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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

Courtesy Lamps Always On

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the OFF position. 2. Ensure that all of the doors are closed. 3. Ensure that the rear compartment lid is closed. 4. Ensure that the IP dimmer switch is in the off position. 5. Ensure that the vehicle has not recently been unlocked using the keyless entry function. 6. Ensure that the reading lamp switches on the rearview mirror are in the OFF position. Do the courtesy lamps remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the ignition switch to the OFF position. 2. Close the IP compartment. 3. Disconnect the body control module (BCM) connector C2 and connector C3. 4. Connect a test lamp between the BCM connector C2 terminal B and the BCM connector C3 terminal C7. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 9	Go to Step 4
4	Connect a test lamp between the BCM connector C2 terminal B and the BCM connector C3 terminal D1. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 11	Go to Step 5
5	1. Close the driver door. 2. Connect a test lamp between the BCM connector C2 terminal B and the BCM connector C3 terminal D11. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 12	Go to Step 6
6	1. Close the passenger door. 2. Connect a test lamp between the BCM connector C2 terminal B and the BCM connector C3 terminal D12. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 14	Go to Step 7
7	1. Close the rear compartment lid. 2. Connect a test lamp between the BCM connector C2 terminal B and the BCM connector C3 terminal D13. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 16	Go to Step 8
8	Replace the BCM. Refer to <i>Body Control Module Replacement</i> in Body Control System. Did you complete the replacement?	—	Go to Step 18	—
9	Test for and repair a short to ground in circuit 175. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. Did you find and repair a short to ground?	—	Go to Step 18	Go to Step 10
10	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Chevrolet)</i> or <i>Headlamp Switch Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 18	—
11	Repair the short to ground in circuit 156. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 18	—

Courtesy Lamps Always On (cont'd)

Step	Action	Value(s)	Yes	No
12	Test for and repair a short to ground in circuit 745. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. Did you find and repair a short to ground?	—	Go to Step 18	Go to Step 13
13	Replace the left front side door lock. Refer to <i>Lock Replacement - Door</i> in Doors. Did you complete the repair?	—	Go to Step 18	—
14	Test for and repair a short to ground in circuit 746. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. Did you find and repair a short to ground?	—	Go to Step 18	Go to Step 15
15	Replace the right front side door lock. Refer to <i>Lock Replacement - Door</i> in Doors. Did you complete the repair?	—	Go to Step 18	—
16	Test for and repair a short to ground in circuit 737. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. Did you find and repair a short to ground?	—	Go to Step 18	Go to Step 17
17	Replace the rear compartment lid ajar indication switch. Refer to <i>Lock Actuator Replacement - Liftgate</i> in Body Rear End. Did you complete the replacement?	—	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

Courtesy Lamps Inoperative

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Open the driver door. 2. Open the passenger door. 3. Open the rear compartment lid. 4. Turn on the reading lamp switches in the rearview mirror. 5. Unlock the vehicle using the keyless entry function. 6. Observe the courtesy lamps. Do the courtesy lamps illuminate during all of the above actions?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Test for and repair a poor connection at the BCM connector C2 terminal E. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 6	Go to Step 4
4	Test for and repair a poor connection at the BCM connector C3 terminal D1. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 6	Go to Step 5
5	Important: Perform the set up procedure for the body control module. Replace the BCM. Refer to <i>Body Control Module Replacement</i> in Body Control System. Did you complete the replacement?	—	Go to Step 6	—
6	Operate the system to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Courtesy Lamps Inoperative with IP Dimmer Switch

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn on the IP dimmer switch. 2. Rotate the dimmer switch from the lowest intensity to the highest intensity. Does the intensity of the courtesy lamps change with the IP dimmer switch?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the body control module (BCM) connector C3. 2. Turn the IP dimmer switch to the ON position. 3. Connect a test lamp between the BCM connector C3 terminal C7 and battery voltage. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 7
4	Test for and repair a poor connection at the BCM connector C3 terminal C7. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 11	Go to Step 5
5	Replace the BCM. Refer to <i>Body Control Module Replacement</i> in Body Control System. Did you complete the replacement?	—	Go to Step 11	—
6	Connect a test lamp between the IP dimmer switch connector terminal C and battery voltage. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 7	Go to Step 8
7	Repair the open in circuit 157 between the IP dimmer switch and the BCM. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 11	—
8	Test for and repair a poor connection at the IP dimmer switch connector terminal C. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 11	Go to Step 9
9	Test for and repair an open in circuit 650 between the IP dimmer switch and S216. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. Did you find and repair an open?	—	Go to Step 11	Go to Step 10
10	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Chevrolet)</i> or <i>Headlamp Switch Replacement (Pontiac)</i> . 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/Reading Lamps Inoperative w/ Lamp Switch

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the IP dimmer switch to the ON position. 3. Turn the courtesy/reading lamps on using the switches. Do the courtesy/reading lamps turn on?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the inside rearview mirror connector. 2. Connect a test lamp between the inside rearview mirror connector terminal C and terminal B. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 6
4	Test for and repair a poor connection at the inside rearview mirror connector terminal C and terminal B. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 7	Go to Step 5
5	Replace the inside rearview mirror. Refer to <i>Rearview Mirror Replacement</i> . Did you complete the replacement?	—	Go to Step 7	—
6	Repair the open in circuit 750 from the inside rearview mirror to S220. Refer to <i>Wiring Repairs</i> in Wiring Systems. 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

Courtesy Lamps Inoperative with Doors Open

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	Open each door separately. Do the courtesy lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Open each door, one at a time, in order to determine which door is inoperative. 2. Connect a 15A fused jumper between the body control module (BCM) connector C3 terminal D11 (driver door) or terminal D12 (passenger door) and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Do the courtesy lamps turn on?	—	Go to Step 5	Go to Step 4
4	Test for and repair a poor connection at the BCM connector C3 terminal D11 (driver door) or terminal D12. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 19	Go to Step 18
5	Connect a 15A fused between the connector C200C terminal 4 (driver door) or terminal 5 (passenger door) and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Do the courtesy lamps turn on?	—	Go to Step 6	Go to Step 7

Courtesy Lamps Inoperative with Doors Open (cont'd)

Step	Action	Value(s)	Yes	No
6	1. Disconnect the inoperative front side door lock. 2. Connect a 15A fused jumper between the side door lock switch terminal A and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Do the courtesy lamps turn on?	—	Go to Step 11	Go to Step 9
7	Test for and repair a poor connection at connector C200. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 19	Go to Step 8
8	Repair the open in circuit 745 (driver door) or 746 (passenger door) between connector C200 and the BCM. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 19	—
9	Test for and repair a poor connection at connector C200. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 19	Go to Step 10
10	Repair the open in circuit 745 (driver door) or 746 (passenger door) between connector C200 and the front side door lock. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 19	—
11	1. Reconnect the front side door lock. 2. Open the inoperative door. 3. Connect a 15A fused jumper between the front side door lock connector terminal D and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Do the courtesy lamps turn on?	—	Go to Step 12	Go to Step 13
12	Repair the open in circuit 750 between the front side door lock and S220. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 19	—
13	Test for and repair a poor connection at the front side door lock. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 19	Go to Step 14
14	Replace the front side door lock. Refer to <i>Lock Replacement - Door</i> in Doors. Did you complete the replacement?	—	Go to Step 19	—
15	Turn on the rearview mirror courtesy/reading lamp switches. Do the courtesy reading lamps turn on?	—	Go to Step 16	Go to Step 17
16	Repair the open in circuit 149 between the BCM and S241. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 19	—
17	Repair the open in circuit 156 between the BCM and S247. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 19	—
18	Replace the BCM. Refer to <i>Body Control Module Replacement</i> in Body Control System. Did you complete the replacement?	—	Go to Step 19	—
19	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Courtesy Lamps Inop with Rear Compartment Lid Open

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	Open the rear compartment lid. Do the courtesy lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the rear compartment lid ajar indication switch. 2. Connect a 15A fused jumper between the switch connector terminal A and terminal B. Refer to <i>Circuit Testing</i> in Wiring Systems. Do the courtesy lamps turn on?	—	Go to Step 5	Go to Step 4
4	Connect a 15A fused jumper between the switch connector terminal B and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Do the courtesy lamps turn on?	—	Go to Step 9	Go to Step 7
5	Test for and repair a poor connection at the rear compartment lid ajar indication switch. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 11	Go to Step 6
6	Replace the rear compartment lid ajar indicator switch. Refer to <i>Latch Replacement - Endgate</i> in Body Rear End. Did you complete the replacement?	—	Go to Step 11	—
7	Test for and repair an open in circuit 737 between the switch and the BCM. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. Did you find and repair an open?	—	Go to Step 11	Go to Step 8
8	Test for and repair a poor connection at the BCM connector C3 terminal D13. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 11	Go to Step 10
9	Repair the open in circuit 1550 between the switch and S470. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 11	—
10	Replace the BCM. Refer to <i>Body Control Module Replacement</i> in Body Control System. 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/Reading Lamps Always On

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Close both doors. 2. Close the rear compartment lid. 3. Turn the IP dimmer switch to the OFF position. 4. Ensure that the vehicle was not unlocked using the keyless entry function. Do the courtesy/reading lamps remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Are all of the courtesy lamps on at all times?	—	Go to Courtesy Lamps Always On	Go to Step 4
4	Replace the inside rearview mirror. Refer to <i>Rearview Mirror Replacement</i> . Did you complete the repair?	—	Go to Step 5	—
5	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Courtesy/Reading Lamps Inoperative

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the IP dimmer to the ON position. Do the courtesy/reading lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Use the courtesy/reading lamp switches to operate the lamps. Do the courtesy/reading lamps illuminate?	—	Go to Step 4	Go to Courtesy/Reading Lamps Inoperative w/ Lamp Switch
4	1. Disconnect the inside rearview mirror connector. 2. Connect a test lamp between the inside rearview mirror connector terminal C and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. 3. Open the driver door. Does the test lamp illuminate?	—	Go to Step 5	Go to Step 8
5	Connect a test lamp between the inside rearview mirror connector terminal C and terminal A. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 9
6	Test for and repair a poor connection at the inside rearview mirror connector terminal C and terminal A. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 10	Go to Step 7
7	Replace the inside rearview mirror. Refer to <i>Rearview Mirror Replacement</i> . Did you complete the replacement?	—	Go to Step 10	—

Courtesy/Reading Lamps Inoperative (cont'd)

Step	Action	Value(s)	Yes	No
8	Repair an open or a poor connection in circuit 149 between the inside rearview mirror and S241. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in <i>Wiring Systems</i> . Did you complete the repair?	—	Go to Step 10	—
9	Repair an open or a poor connection in circuit 156 between the inside rearview mirror and S247. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in <i>Wiring Systems</i> . Did you complete the repair?	—	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) Headlamps Inoperative (Scandinavia)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the headlamp switch to the OFF position. 3. Ensure that the park brake is not engaged. Do the DRL headlamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in <i>Wiring Systems</i>	Go to Step 3
3	Repair a poor connection or an open in the ignition 3 voltage circuit of the daytime running lamps (DRL) relay between S210 and S207. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in <i>Wiring Systems</i> . Did you complete the repair?	—	Go to Step 4	—
4	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Daytime Running Lamps (DRL) Headlamps Inoperative (Pontiac, Chevy Domestic, Gulf States)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the headlamp switch to the OFF position. 3. Ensure that the park brake is not engaged. Do the DRL headlamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in <i>Wiring Systems</i>	Go to Step 3
3	Replace the DRL module. Refer to <i>Daytime Running Lights (DRL) Control Module Replacement</i> . Did you complete the replacement?	—	Go to Step 4	—
4	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Exterior Lamps Inoperative - All

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the headlamp switch to the PARK position. Do all of the following lamps turn on?: • The front park lamps • The front side marker lamps • The rear tail lamps • The rear license lamps • The rear side marker lamps • The positioning lamps (Europe and Scandinavia)	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the headlamp switch. 2. Connect a test lamp between the supply voltage circuit of the exterior lamps at the headlamp switch connector and battery voltage. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	1. Repair a short to ground in the supply voltage circuit of the exterior lamps. Refer to <i>Wiring Repairs</i> in Wiring Systems. 2. Check the TAIL LPS fuse 5. If open, replace. Did you complete the repair?	—	Go to Step 10	—
5	Connect a test lamp between the battery voltage circuit of the headlamps at the headlamp switch connector and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	1. Reconnect the headlamp switch. 2. Connect a test lamp between the supply voltage circuit of the exterior lamps at the headlamp connector and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. 3. Turn the park lamps on. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9
7	Repair a poor connection or an open in the battery voltage circuit of the headlamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
8	Repair a poor connection or an open in the supply voltage circuit of the exterior lamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
9	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Chevrolet)</i> or <i>Headlamp Switch Replacement (Pontiac)</i> . 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 Lamps Always On (Pont, Chevy Dom, Gulf States, Japan)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the OFF position. 2. Turn the fog lamp switch off. Do the fog lamps remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Disconnect the fog lamp relay. Do the fog lamps turn off?	—	Go to Step 4	Go to Step 5
4	Connect a test lamp between the fog lamp relay terminal F11 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
5	Repair the short to battery voltage in the supply voltage circuit of the fog lamps between the fog lamps and the fog lamp relay. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
6	1. Disconnect the connector from the fog lamp switch. 2. Connect a test lamp between the fog lamp relay terminal F11 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9
7	Replace the fog lamp relay. Refer to <i>Fog Lamp Relay Replacement</i> . Did you complete the replacement?	—	Go to Step 10	—
8	Repair the short to battery voltage in the supply voltage circuit of the fog lamps relay coil between the fog lamp switch and the fog lamp relay. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
9	Replace the fog lamp switch. Refer to <i>Fog Lamp Switch Replacement - Front (Pontiac)</i> or <i>Fog Lamp Switch Replacement - Front (Chevrolet)</i> . 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 Lamps Always On (Rear Lamps - Europe)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the OFF position. 2. Turn the rear fog lamp switch off. Do the rear fog lamps remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Repair the short to battery voltage in the rear fog lamp control circuit. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 4	—
4	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Fog Lamps Inoperative - All (Pont, Chevy Dom, Gulf States, Japan)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the headlamps on. 2. Turn the fog lamp switch on. 3. Turn the headlamp dimmer switch to the low beam position. Do the fog lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Leave the headlamps on. 2. Leave the foglamps on. 3. Leave the headlamp dimmer switch in the low beam position. 4. Connect a test lamp between the supply voltage circuit of the fog lamp relay coil at the fog lamp switch connector and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Connect a test lamp between the fog lamp relay connector terminal F9 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
5	Connect a test lamp between the supply voltage circuit of the fog lamp switch at the fog lamp switch connector and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 15	Go to Step 14
6	Repair a poor connection or an open in the supply voltage circuit of the fog lamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 16	—
7	Connect a test lamp between the fog lamp relay terminals E11 and E9. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9
8	Connect a test lamp between the fog lamp relay connector terminals F11 and E9. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 10	Go to Step 11
9	Connect a test lamp between the fog lamp relay connector terminal E11 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 12	Go to Step 13
10	Replace the fog lamp relay. Refer to <i>Fog Lamp Relay Replacement</i> . Did you complete the replacement?	—	Go to Step 16	—
11	Repair a poor connection or an open in the supply voltage circuit of the fog lamp relay coil. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 16	—
12	Repair a poor connection or an open in the supply voltage circuit of the high beam headlamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 16	—

Fog Lamps Inoperative - All (Pont, Chevy Dom, Gulf States, Japan) (cont'd)

Step	Action	Value(s)	Yes	No
13	Repair a poor connection or an open in the supply voltage circuit of the fog lamp relay switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 16	—
14	Repair a poor connection or an open in the supply voltage circuit of the fog lamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 16	—
15	Replace the fog lamp switch. Refer to <i>Fog Lamp Switch Replacement - Front (Pontiac)</i> or <i>Fog Lamp Switch Replacement - Front (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 16	—
16	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Fog Lamps Inoperative - All (Front Lamps - Europe)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the headlamps on. 2. Turn the front fog lamp switch on. Do the front fog lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Leave the headlamps on. 2. Leave the front foglamps on. 3. Connect a test lamp between the front fog lamp switch connector terminal F and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Did the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Connect a test lamp between the fog lamp relay connector terminals F11 and E9. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 10
5	Connect a test lamp between the front fog lamp switch connector terminal E and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	Replace the front fog lamp switch. Refer to <i>Fog Lamp Switch Replacement - Front (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 16	—
7	Repair a poor connection or an open in the supply voltage circuit of the fog lamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 16	—
8	Connect a test lamp between the fog lamp relay connector terminals E11 and E9. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 9	Go to Step 14

Fog Lamps Inoperative - All (Front Lamps - Europe) (cont'd)

Step	Action	Value(s)	Yes	No
9	Connect a test lamp between the fog lamp relay terminals E9 and F9. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 11	Go to Step 15
10	Connect a test lamp between the fog lamp relay terminal F11 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 13	Go to Step 12
11	Repair a poor connection or an open in the supply voltage circuit of the front fog lamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 16	—
12	Repair a poor connection or an open in the supply voltage circuit of the fog lamp relay coil. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 16	—
13	Repair a poor connection or an open in the ground circuit of the front fog lamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 16	—
14	Repair a poor connection or an open in the supply voltage circuit of the fog lamp relay switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 16	—
15	Replace the fog lamp relay. Refer to <i>Fog Lamp Relay Replacement</i> . Did you complete the replacement?	—	Go to Step 16	—
16	Operate the system in order to verify the system. Did you correct the condition?	—	System OK	Go to Step 3

Fog Lamps Inoperative - All (Rear Lamps - Europe)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the headlamps on. 2. Turn the front fog lamp switch on. 3. Turn the rear fog lamp switch on. Do the rear fog lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Leave the headlamps on. 2. Leave the front foglamps on. 3. Leave the rear foglamps on. 4. Connect a test lamp between the rear fog lamp switch connector terminal E and battery voltage. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Connect a test lamp between the BCM connector C3 terminal D9 and battery voltage. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9
5	Connect a test lamp between the rear fog lamp switch connector terminal F and battery voltage. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7

Fog Lamps Inoperative - All (Rear Lamps - Europe) (cont'd)

Step	Action	Value(s)	Yes	No
6	Replace the rear fog lamp switch. Refer to <i>Fog Lamp Switch Replacement - Rear (Export)</i> . Did you complete the replacement?	—	Go to Step 22	—
7	Repair a poor connection or an open in the ground circuit of the rear fog lamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 22	—
8	Connect a test lamp between the BCM connector C3 terminal C8 and battery voltage. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 10	Go to Step 11
9	Repair a poor connection or an open in the signal circuit of the rear fog lamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 22	—
10	Connect a test lamp between the fog lamp relay cavity A1 and battery voltage. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 12	Go to Step 13
11	Important: Perform the set up procedure for the body control module (BCM). Replace the BCM. Refer to <i>Body Control Module Replacement</i> in Body Control System. Did you complete the replacement?	—	Go to Step 22	—
12	Connect a test lamp between the rear fog lamp relay cavities C2 and A1. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 14	Go to Step 15
13	Repair a poor connection or an open in the control circuit of the rear fog lamp relay. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 22	—
14	Connect a test lamp between the rear fog lamp relay cavities A1 and C1. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 16	Go to Step 17
15	Repair a poor connection or an open in the supply voltage circuit of the rear fog lamp relay. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring System. Did you complete the repair?	—	Go to Step 22	—
16	Connect a test lamp between the rear fog lamp relay cavities A1 and A2. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 18	Go to Step 19
17	Repair a poor connection or an open in the supply voltage circuit of the rear fog lamp relay switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 22	—
18	Connect a test lamp between one of the rear fog lamps connector terminal A and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 20	Go to Step 21
19	Replace the rear fog lamp relay. Refer to <i>Fog Lamp Relay Replacement</i> . Did you complete the replacement?	—	Go to Step 22	—

Fog Lamps Inoperative - All (Rear Lamps - Europe) (cont'd)

Step	Action	Value(s)	Yes	No
20	Repair a poor connection or an open in the ground circuit of the rear fog lamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 22	—
21	Repair a poor connection or an open in the supply voltage circuit of the rear fog lamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 22	—
22	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Fog Lamps Inoperative - One

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the headlamps on. 2. Turn the front fog lamp switch on. 3. Turn the rear fog lamp switch on (Europe). Do all of the fog lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the inoperative lamp. 2. Turn on the front fog lamps. 3. Connect a test lamp between the supply voltage circuit of the inoperative fog lamp connector control circuit and the ground circuit of the inoperative fog lamp ground circuit. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the inoperative lamp. Refer to one of the following procedures: • Fog Lamp Replacement - Front (Chevrolet) • Fog Lamp Replacement - Front (Pontiac Firebird/Formula) • Fog Lamp Replacement - Front (Pontiac Trans Am) • Fog Lamp Replacement - Rear (Export) Did you complete the replacement?	—	Go to Step 8	—
5	Connect a test lamp between the supply voltage circuit of the inoperative fog lamp and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the ground circuit of the inoperative lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage circuit of the inoperative lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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

Fog Lamp Switch Illumination Lamp Inoperative (Euro, Pont, Chev Dom, Jap, Gulf State)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn on the headlamps. 2. Turn on the fog lamp switch. 3. Turn the headlamp dimmer switch to the low beam position. Does the fog lamp switch illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Is the vehicle a Pontiac?	—	Go to Step 4	Go to Step 5
4	1. Leave the headlamps on. 2. Leave the foglamps on. 3. Leave the headlamp dimmer switch in the low beam position. Are both the fog lamp switch illumination and the fog lamp on indicator inoperative?	—	Go to Step 9	Go to Step 10
5	1. Leave the headlamps on. 2. Connect a test lamp between the fog lamp switch connector terminal B and terminal C. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	Replace the fog lamp switch. Refer to <i>Fog Lamp Switch Replacement - Front (Pontiac)</i> or <i>Fog Lamp Switch Replacement - Front (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 13	—
7	Connect a test lamp between the fog lamp switch connector terminal C and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 12
8	Repair a poor connection or an open in the ground circuit of the fog lamp switch illumination lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 13	—
9	Connect a test lamp between the fog lamp switch connector terminal G and battery voltage. Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 11
10	Connect a test lamp between the fog lamp switch connector terminals F and G. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 12
11	Repair a poor connection or an open in the ground circuit of the fog lamp switch indicator lamp and the fog lamp switch illumination. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 13	—
12	Repair a poor connection or an open in the supply voltage circuit to the switch illumination lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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

Fog Lamp Indicator Inoperative - Front (Pont, Chevy Dom, Gulf States, Japan)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the headlamps on. 2. Turn the headlamp dimmer switch to the low beam position. 3. Turn the fog lamp switch on. Does the fog lamp indicator illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Is the vehicle a Pontiac?	—	Go to Step 4	Go to Step 5
4	Connect a test lamp between the fog lamp switch connector terminals B and G. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
5	Connect a test lamp between the fog lamp switch connector terminal A and battery voltage. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 8
6	Replace the fog lamp switch. Refer to <i>Fog Lamp Switch Replacement - Front (Pontiac)</i> or <i>Fog Lamp Switch Replacement - Front (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 9	—
7	Repair a poor connection or an open in the supply voltage circuit of the fog lamp indicator. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 9	—
8	Repair a poor connection or an open in the supply voltage circuit of the on indicator lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	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

Fog Lamp Indicator Inoperative - Front (Front Lamps - Europe)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the headlamps on. 2. Turn the headlamp dimmer switch to the low beam position. 3. Turn the fog lamp switch on. Does the fog lamp indicator illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Connect a test lamp between the front fog lamp switch connector terminal A and battery voltage. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the front fog lamp switch. Refer to <i>Fog Lamp Switch Replacement - Front (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 6	—
5	Repair a poor connection or an open in the ground circuit of the fog lamp switch indicator lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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 Lamp Indicator Inoperative - Front (Rear Lamps - Europe)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the headlamps on. 2. Turn the front fog lamp switch on. 3. Turn the rear fog lamps switch on. Does the rear fog lamp indicator illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Leave the headlamps on. 2. Leave the front foglamps on. 3. Leave the rear foglamps on. 4. Connect a test lamp between the rear fog lamp switch connector terminal A and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the rear fog lamp switch. Refer to <i>Fog Lamp Switch Replacement - Rear (Export)</i> Did you complete the replacement?	—	Go to Step 6	—
5	Repair a poor connection or an open in the supply voltage circuit of the indicator lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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

Hazard Lamps Inoperative

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	Turn the hazard lamp switch on. Do the hazard lamps flash?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Connect a test lamp between C216 terminal K and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. 2. Turn the hazard lamp switch on. Does the test lamp flash off and on?	—	Go to Step 4	Go to Step 5
4	Replace the turn/hazard switch assembly. Refer to <i>Hazard Warning Switch Replacement - On Vehicle</i> in Steering. Did you complete the replacement?	—	Go to Step 10	—
5	Connect a test lamp between the hazard lamp flasher terminal B and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp flash off and on?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the signal circuit of the hazard flasher. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—

Hazard Lamps Inoperative (cont'd)

Step	Action	Value(s)	Yes	No
7	Connect a test lamp between the hazard lamp flasher terminal A and ground. Refer to <i>Circuit Testing</i> in <i>Wiring Systems</i> . Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9
8	Replace the hazard lamp flasher. Refer to <i>Hazard Lamp Flasher Replacement</i> . Did you complete the replacement?	—	Go to Step 10	—
9	Repair a poor connection or an open in the battery positive voltage circuit of the hazard lamp flasher. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in <i>Wiring Systems</i> . Did you complete the repair?	—	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

Headlamps Always On - Low or High Beam (Japan, Europe)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the OFF position. 2. Turn the headlamps off. Do the headlamps remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the headlamps off. 2. Turn the headlamp dimmer switch to the low beam position and then to the high beam position. Are the headlamps on in both cases?	—	Go to Step 4	Go to Step 5
4	Inspect for and repair a short to battery voltage in the signal circuit of the headlamp. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in <i>Wiring Systems</i> . Did you find and repair a short?	—	Go to Step 9	Go to Step 6
5	Repair a short to battery voltage in the supply voltage circuit of the low beam headlamps or the supply voltage circuit of the high beam headlamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in <i>Wiring Systems</i> . Did you complete the repair?	—	Go to Step 9	—
6	Connect a test lamp between the headlamp switch terminal E and ground. Refer to <i>Circuit Testing</i> in <i>Wiring Systems</i> . Does the test lamp illuminate?	—	Go to Step 7	Go to Step 8
7	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 9	—
8	Replace the headlamp dimmer switch. Refer to <i>Dimmer Switch Assembly - Disassemble - Off Vehicle</i> and <i>Dimmer Switch Assembly - Assemble - Off Vehicle</i> . 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

Headlamps Always On - Low or High Beam (Scandinavia)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the OFF position. 2. Turn the headlamps off. Do the headlamps remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Are the high beams on at all times?	—	Go to Step 4	Go to Step 5
4	1. Turn the headlamps off. 2. Turn the headlamp dimmer switch from the low beam position to the high beam position and then from the high beam position to the low beam position. Do the headlights illuminate in both cases?	—	Go to Step 7	Go to Step 6
5	1. Turn the ignition switch to the OFF position. 2. Turn the headlamps off. 3. Turn the headlamp dimmer switch from the low beam position to the high beam position and then from the high beam position to the low beam position. Do the headlamps illuminate in both cases?	—	Go to Step 7	Go to Step 8
6	Repair a short to battery voltage in the supply voltage circuit of the headlamp high beams. Refer to <i>Wiring Repairs</i> in Wiring Repairs. Did you complete the repair?	—	Go to Step 13	—
7	Inspect for and repair a short to battery voltage in the signal circuit of the headlamp switch. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. Did you find and repair a short to battery voltage?	—	Go to Step 13	Go to Step 9
8	Inspect for and repair a short to battery voltage in the supply voltage circuit of the headlamp low beams. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. Is a short present?	—	Go to Step 13	Go to Step 10
9	Connect a test lamp between the headlamp switch terminal E and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 11	Go to Step 12
10	Replace the DRL relay. Did you complete the replacement?	—	Go to Step 13	—
11	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 13	—
12	Replace the headlamp dimmer switch. Refer to <i>Dimmer Switch Assembly - Disassemble - Off Vehicle Dimmer Switch Assembly - Assemble - Off Vehicle</i> . 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

Headlamps Always On - Low or High Beam (Pontiac)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the OFF position. 2. Turn the headlamps off. Do the headlamps remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Are the high beam headlamps on?	—	Go to Step 4	Go to Step 5
4	Disconnect the headlamp dimmer switch. Do the high beam headlamps turn off?	—	Go to Step 6	Go to Step 7
5	Disconnect the headlamp switch. Do the low beam headlamps turn off?	—	Go to Step 8	Go to Step 9
6	Replace the headlamp dimmer switch. Refer to <i>Dimmer Switch Assembly - Disassemble - Off Vehicle</i> and <i>Dimmer Switch Assembly - Assemble - Off Vehicle</i> . Did you complete the replacement?	—	Go to Step 12	—
7	Repair a short to battery voltage in the supply voltage circuit of the headlamp high beams. Refer to <i>Wiring Repairs in Wiring Systems</i> . Did you complete the repair?	—	Go to Step 12	—
8	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 12	—
9	Disconnect the DRL module. Do the low beam headlamps turn off?	—	Go to Step 10	Go to Step 11
10	Replace the DRL module. Refer to <i>Daytime Running Lights (DRL) Control Module Replacement</i> . Did you complete the replacement?	—	Go to Step 12	—
11	Repair a short to battery voltage in the signal circuit of the headlamp switch. Refer to <i>Wiring Repairs in Wiring Systems</i> . 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

Headlamps Always On - Low or High Beam (Chevrolet Domestic, Gulf States)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the OFF position. 2. Turn the headlamps off. Do the headlamps remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Make sure that the DRL ambient light sensor is not covered. 2. Turn the headlamps off. 3. Turn the headlamp dimmer switch to the low beam position and then to the high beam position. Do the headlamps illuminate in both cases?	—	Go to Step 4	Go to Step 5
4	Disconnect the headlamp switch. Are the high beam headlamps on?	—	Go to Step 6	Go to Step 7
5	Repair a short to battery voltage in the supply voltage circuit of the low beam headlamps. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 16	—
6	Disconnect the DRL ambient light sensor. Are the high beam headlamps on?	—	Go to Step 8	Go to Step 9
7	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 16	—
8	Inspect for a short to battery voltage and a short to ground in the signal circuit of the ambient light sensor and the low reference signal circuit of the ambient light sensor. Refer to <i>Circuit Testing</i> in Wiring Systems. Is a short present?	—	Go to Step 10	Go to Step 11
9	Replace the DRL ambient light sensor. Refer to <i>Daytime Running Lamps (DRL) Ambient Light Sensor Replacement</i> . Did you complete the replacement?	—	Go to Step 16	—
10	Repair a short in the daytime running lamp photocell signal circuit or the daytime running lamp photocell return circuit. Refer to <i>Wiring Repairs</i> in Wiring System. Did you complete the repair?	—	Go to Step 16	—
11	Disconnect the DRL module. Are the high beam headlamps on?	—	Go to Step 12	Go to Step 13
12	Inspect for a short to battery voltage in the signal circuit of the headlamp switch. Refer to <i>Circuit Testing</i> in Wiring Systems. Is a short present?	—	Go to Step 14	Go to Step 15
13	Replace the DRL module. Refer to <i>Daytime Running Lights (DRL) Control Module Replacement</i> . Did you complete the replacement?	—	Go to Step 16	—
14	Repair a short to battery voltage in the signal circuit of the headlamp switch. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 16	—

Headlamps Always On - Low or High Beam (Chevrolet Domestic, Gulf States) (cont'd)

Step	Action	Value(s)	Yes	No
15	Replace the headlamp dimmer switch. Refer to <i>Dimmer Switch Assembly - Disassemble - Off Vehicle</i> and <i>Dimmer Switch Assembly - Assemble - Off Vehicle</i> . Did you complete the replacement?	—	Go to Step 16	—
16	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Headlamps Inoperative - Low Beams (Eur, Jap, Chev Dom, Pont, Gulf States)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the headlamps on. 2. Turn the headlamp dimmer switch to the low beam position. Do the low beam headlamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Are the low beams inoperative with the switch (Pont, Chevy Dom, Gulf States only)?	—	Go to Step 4	Go to Step 5
4	1. Leave the headlamps on. 2. Connect a test lamp between the headlamp switch terminal E and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9
5	Are the low beams inoperative (DRL switch and Pontiac) only?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the signal circuit of the headlamp switch between C200D/B terminal B5 and S202. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 12	—
7	1. Turn the headlamps on. 2. Turn the headlamp dimmer switch to the low beam position. 3. Connect a test lamp between the headlamp dimmer switch terminal C and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 10	Go to Step 11
8	Repair a poor connection or an open in the signal circuit of the headlamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 12	—
9	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Pontiac)</i> or <i>Headlamp Switch Replacement (Chevrolet)</i> . Did you complete the repair?	—	Go to Step 12	—
10	Repair a poor connection or an open in the supply voltage circuit of the low beam headlamps between the headlamp dimmer switch connector terminal C and S153. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 12	—
11	Replace the headlamp dimmer switch. Refer to <i>Dimmer Switch Assembly - Disassemble - Off Vehicle</i> and <i>Dimmer Switch Assembly - Assemble - Off Vehicle</i> . Did you complete the replacement?	—	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

Headlamps Inoperative - Low Beams (Scandinavia)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the headlamps on. 2. Turn the headlamp dimmer switch to the low beam position. Do the low beams illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Are the low beam headlamps inoperative with DRL and the switch?	—	Go to Step 4	Go to Step 5
4	Inspect the high beam headlamps. Do they operate?	—	Go to Step 8	Go to Step 9
5	Are the low beam headlamps inoperative with just the switch?	—	Go to Step 6	Go to Step 7
6	1. Leave the headlamps on. 2. Leave the headlamp dimmer switch in the low beam position. 3. Connect a test lamp between the headlamp dimmer switch terminal C and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 12	Go to Step 13
7	1. Turn the headlamps off. 2. Connect a test lamp between the headlamp switch terminal A and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 14	Go to Step 15
8	Repair a poor connection or an open in the supply voltage circuit of the low beam headlamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 24	—
9	Connect a test lamp between the headlamp switch terminal J and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 10	Go to Step 11
10	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 24	—
11	Repair a poor connection or an open in the battery positive voltage circuit of the headlamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 24	—
12	Repair a poor connection or an open in the supply voltage circuit of the low beam headlamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 24	—
13	Replace the headlamp dimmer switch. Refer to <i>Dimmer Switch Assembly - Disassemble - Off Vehicle</i> and <i>Dimmer Switch Assembly - Assemble - Off Vehicle</i> . Did you complete the replacement?	—	Go to Step 24	—
14	Connect a test lamp between the DRL relay terminals 30 and 86. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 16	Go to Step 17
15	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 24	—

Headlamps Inoperative - Low Beams (Scandinavia) (cont'd)

Step	Action	Value(s)	Yes	No
16	1. Turn the ignition switch to the RUN position. 2. Connect a test lamp between the DRL relay terminals 87 and 86. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 18	Go to Step 19
17	Connect a test lamp between the DRL relay terminal 30 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 20	Go to Step 21
18	Repair a poor connection or an open in the supply voltage circuit of the low beam headlamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 24	—
19	Connect a test lamp between the DRL relay terminal 85 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 22	Go to Step 23
20	Repair a poor connection or an open in the ground circuit of the DRL relay coil. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 24	—
21	Repair a poor connection or an open in the supply voltage circuit of the DRL relay switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 24	—
22	Replace the DRL relay. Did you complete the replacement?	—	Go to Step 24	—
23	Repair a poor connection or an open in the ignition 3 voltage circuit of the DRL relay coil. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 24	—
24	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Headlamps Inoperative - High Beams

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the headlamps on. 2. Turn the headlamp dimmer switch to the high beam position. Do the headlamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Leave the headlamps on. 2. Leave the headlamp dimmer switch in the high beam position. Does the high beam indicator illuminate?	—	Go to Step 4	Go to Step 5
4	Repair a poor connection or an open in the supply voltage circuit of the high beam headlamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 6	—
5	Replace the headlamp dimmer switch. Refer to <i>Dimmer Switch Assembly - Disassemble - Off Vehicle</i> and <i>Dimmer Switch Assembly - Assemble - Off Vehicle</i> . Did you complete the replacement?	—	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

Headlamps Inoperative - One Lamp (Pontiac)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	Turn the headlamps on. Do the headlamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Test for and repair an open or a poor connection in the supply voltage circuit of the inoperative headlamp. Refer to <i>Circuit Testing or Testing for Intermittent and Poor Connections</i> and <i>Wiring Repairs or Connector Repairs</i> in Wiring Systems. Did you find and repair an open or a poor connection?	—	Go to Step 5	Go to Step 4
4	Replace the inoperative headlamp opening door assembly. Refer to <i>Headlamp Opening Door Replacement</i> . Did you complete the replacement?	—	Go to Step 5	—
5	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Headlamps Inoperative - One Lamp (Chev Dom, Gulf States, Jap, Eur, Scan)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the headlamps on. Do the headlamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Inspect the inoperative headlamp bulb for a damaged or open filament. 2. Inspect the inoperative headlamp connector in order to verify that the seal is not missing or damaged. Are the headlamp bulb and connectors OK?	—	Go to Step 4	Go to Step 5
4	1. Disconnect the inoperative headlamp. 2. Connect a test lamp between the inoperative headlamp connector terminals A and B. Refer to <i>Circuit Testing</i> in Wiring Systems. 3. Turn the headlamps on. 4. Turn the headlamp dimmer switch to the low beam position or to the high beam position (depending on which lamp is inoperative). Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
5	Replace the damaged component. Did you complete the replacement?	—	Go to Step 10	—
6	Replace the inoperative headlamp. Refer to <i>Headlamp Bulb Replacement</i> . Did you complete the replacement?	—	Go to Step 10	—
7	Connect a test lamp between the inoperative headlamp connector terminal A and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9

Headlamps Inoperative - One Lamp (Chev Dom, Gulf States, Jap, Eur, Scan) (cont'd)

Step	Action	Value(s)	Yes	No
8	Repair a poor connection or an open in the ground circuit of the inoperative headlamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
9	Repair a poor connection or an open in the supply voltage circuit of the inoperative headlamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	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

Headlamps Inoperative - Low and High Beams (Pontiac)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the headlamps on. 2. Turn the headlamp dimmer switch to the low beam position and then to the high beam position. Do the headlamps illuminate during both situations?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Connect a test lamp between the headlamp switch terminal J and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 6	—
5	Repair a poor connection or an open in the battery positive voltage circuit of the headlamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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

Headlamps Inoperative - Low and High Beams (Chev Dom, Gulf States, Eur, Scan, Jap)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the headlamps on. 2. Turn the headlamp dimmer switch to the low beam position and then to the high beam position. Do the headlamps illuminate in both situations?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Connect a test lamp between the headlamp switch terminal E and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Connect a test lamp between the headlamp dimmer switch terminal B and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7

Headlamps Inoperative - Low and High Beams (Chev Dom, Gulf States, Eur, Scan, Jap) (cont'd)

Step	Action	Value(s)	Yes	No
5	Connect a test lamp between the headlamp switch terminal J and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9
6	Replace the headlamp dimmer switch. Refer to <i>Dimmer Switch Assembly - Disassemble - Off Vehicle</i> and <i>Dimmer Switch Assembly - Assemble - Off Vehicle</i> . Did you complete the replacement?	—	Go to Step 10	—
7	Repair a poor connection or an open in the signal circuit of the headlamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
8	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 10	—
9	Repair a poor connection or an open in the battery positive voltage circuit of the headlamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	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

Headlamps Inoperative in Low Light Conditions (Pontiac, Chevy Dom, Gulf States)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Cover the DRL ambient light sensor. (if applicable) 2. Turn the ignition to the RUN position. 3. Turn the headlamp switch to the OFF position. Do the headlamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Leave the DRL ambient light sensor covered (if applicable). 2. Turn the ignition switch to the OFF position. 3. Disconnect the DRL module connector C1. 4. Connect a test lamp between the DRL module connector C1 terminal D (headlamps) or A (park lamps) and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 10
4	Connect a fused jumper between the DRL module connector C1 terminal F (headlamp) or H (parklamp) and D (headlamp) or A (parklamp). Do the headlamps turn on?	—	Go to Step 6	Go to Step 7
5	Inspect for an open in the supply voltage circuit of the headlamp relay switch between the headlamp switch and the DRL module. Refer to <i>Circuit Testing</i> in Wiring Systems. Does an open exist?	—	Go to Step 8	Go to Step 9

Headlamps Inoperative in Low Light Conditions (Pontiac, Chevy Dom, Gulf States) (cont'd)

Step	Action	Value(s)	Yes	No
6	Replace the DRL module. Refer to <i>Daytime Running Lights (DRL) Control Module Replacement</i> . Did you complete the replacement?	—	Go to Step 12	—
7	Repair a poor connection or an open in the supply voltage circuit of the headlamp dimmer switch or the supply voltage circuit of the park lamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 12	—
8	Repair a poor connection or an open in the supply voltage circuit of the headlamp relay switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 12	—
9	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Pontiac)</i> or <i>Headlamp Switch Replacement (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 12	—
10	Are the inoperative lamps the headlamps and not the park lamps?	—	Go to Step 5	Go to Step 11
11	Repair a poor connection or an open in the battery positive voltage circuit of the park lamp relay. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring System. 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

Headlamps, Parklamps, Daytime Running Lamps (DRL) On with Park Brake Applied

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Apply the park brake. 2. Turn the ignition to the RUN position. Do the DRLs remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the ignition switch to the OFF position. 2. Apply the park brake. 3. Turn the ignition switch to the RUN position. Is the park brake indicator light in the instrument cluster on?	—	Go to Step 4	Go to Brake Warning Indicator Inoperative in Hydraulic Brakes
4	Replace the DRL Module. Refer to <i>Daytime Running Lights (DRL) Control Module Replacement</i> . Did you complete the replacement?	—	Go to Step 5	—
5	Operate the system to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Headlamp Door(s) Inoperative

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	Turn the headlamps on. Do the headlamp doors open?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the headlight opening door actuator control module connectors C1 and C2. 2. Turn the headlamps on. 3. Connect a test lamp between the headlamp opening door actuator control module connector C1 terminals A and D. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Connect a test lamp between the headlamp opening door actuator control module connector C1 terminals C and D. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
5	Connect a test lamp between the headlamp opening door actuator control module connector C1 terminal A and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9
6	Replace the headlamp opening door actuator control module. Refer to <i>Headlamp Door Module Replacement</i> . Did you complete the replacement?	—	Go to Step 10	—
7	Repair a poor connection or an open in the signal circuit of the park lamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
8	Repair a poor connection or an open in the ground circuit of the headlamp opening door actuator control module. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
9	Repair a poor connection or an open in the signal circuit of the headlamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	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

Headlamp Doors Inoperative - One Door (Pontiac)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	Turn the headlamps on. Do both headlamp doors open?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the headlamp opening door actuator control module connector C1. 2. Connect a test lamp between the headlamp opening door actuator control module connector C1 terminal E or B and ground. 3. Turn the headlamps on. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	1. Disconnect the headlamp opening door actuator control module connector C2. 2. Disconnect C160 (LH) or C165 (RH). 3. Inspect for a short to battery voltage in the following areas: • The left headlamp door motor up circuit and the left headlamp door motor down circuit • The right headlamp door motor up circuit and the right headlamp door motor down circuit Refer to <i>Circuit Testing</i> in Wiring Systems. Is a short to battery voltage present?	—	Go to Step 6	Go to Step 7
5	Inspect for a short to ground in the left headlamp door motor up circuit and the left headlamp door motor down circuit or the right headlamp door motor up circuit and the right headlamp door motor down circuit. Refer to <i>Circuit Testing</i> in Wiring Systems. Is a short to ground present?	—	Go to Step 8	Go to Step 9
6	Repair a short to battery voltage. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 14	—
7	Test for continuity in the following areas: • The left headlamp door motor up circuit and the left headlamp door motor down circuit • The right headlamp door motor up circuit and the right headlamp door motor down circuit Refer to <i>Circuit Testing</i> in Wiring Systems. Is there continuity present?	—	Go to Step 10	Go to Step 11
8	Repair the short to ground. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 14	—
9	Repair the open in circuit 840 or circuit 740. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 14	—
10	1. Reconnect the headlamp door actuator control module connectors C1 and C2. 2. Connect a test lamp between the inoperative motor connector terminals A and B. Refer to <i>Circuit Testing</i> in Wiring Systems. 3. Turn the headlamps on. Does the test lamp illuminate?	—	Go to Step 12	Go to Step 13

Headlamp Doors Inoperative - One Door (Pontiac) (cont'd)

Step	Action	Value(s)	Yes	No
11	Repair a poor connection or an open. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 14	—
12	Replace the inoperative headlamp door motor. Refer to <i>Headlamp Motor/Actuator Replacement</i> . Did you complete the replacement?	—	Go to Step 14	—
13	Replace the headlamp opening door actuator control module. Refer to <i>Headlamp Door Module Replacement</i> . 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

Headlight Leveling Inoperative - One Actuator (Europe)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn on the headlamps. 2. Turn the headlamp leveling switch to each of the four positions. Do the headlamps change position?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the inoperative headlamp leveling actuator connector C170 (at the back of the motor). 2. Turn the headlamps on. 3. Connect a test lamp between the signal circuit of the headlamp switch at the of the headlamp leveling actuator motor connector and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 5	Go to Step 4
4	Locate and repair the open in the signal circuit of the headlamp switch. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
5	Connect a test lamp between terminal 1 and terminal 3 of the headlamp leveling actuator motor connector. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 7	Go to Step 6
6	Locate and repair the open in the ground circuit of the inoperative leveling actuator motor. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
7	1. Place the headlamp leveling switch in the 0 position. 2. Connect a DMM between the inoperative headlamp leveling actuator motor connector terminal 2 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the voltmeter read less than the specified value?	4.5 V	Go to Step 9	Go to Step 8
8	Replace the headlamp leveling actuator motor. Refer to <i>Headlamp Motor/Actuator Replacement</i> . Did you complete the replacement?	—	Go to Step 10	—
9	Locate and repair a poor connection or an open in the signal circuit of the headlamp leveling switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	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

Headlight Leveling Inoperative (Europe)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn on the headlamps. 2. Turn the headlamp leveling switch to each of the four positions. Do the headlamps change position?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the headlamp leveling switch connector. 2. Turn the headlamps on. 3. Connect a test lamp between terminal 7 of the headlamp leveling switch connector and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 5	Go to Step 4
4	Repair a poor connection or an open in the signal circuit of the headlamp switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
5	Connect a test lamp between the headlamp leveling switch connector terminals 4 and 7. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 7	Go to Step 6
6	Repair a poor connection or an open in the ground circuit of the headlamp leveling switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
7	1. Reconnect the headlamp leveling switch. 2. Connect a DMM between the headlamp leveling switch connector terminal 3 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Is voltage present?	—	Go to Step 8	Go to Step 9
8	Repair the open in the signal circuit of the headlamp leveling switch between the headlamp leveling switch and S172. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
9	Replace the headlamp leveling switch. Refer to <i>Headlamp Leveling Switch Replacement (Export)</i> . 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

Headlight Leveling Inop - Actuator Switch Illum (Europe)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	Turn the headlamps on. Does the headlamp leveling switch illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the headlamps on. 2. Disconnect the headlamp leveling switch connector. 3. Connect a test lamp between the headlamp leveling switch connector terminals 6 and 7. Refer to <i>Circuit Testing</i> in Wiring Systems. Did the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the headlamp leveling switch. Refer to <i>Headlamp Leveling Switch Replacement (Export)</i> . Did you complete the replacement?	—	Go to Step 6	—
5	Repair a poor connection or an open in the ground circuit of the headlamp leveling switch. Refer to <i>Wiring Repairs or Connector Repairs</i> in Wiring Systems. 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

High Beam Indicator Always On

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Ensure that the high beam headlights are not turned on. Does the high beam indicator remain off after the bulb test?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Replace the instrument cluster. Refer to <i>IP Cluster Replacement</i> in Instrument Cluster, Gauges, and Console. Did you complete the replacement?	—	Go to Step 4	—
4	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

High Beam Indicator Inoperative

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the headlamps on. 3. Turn the high beam headlamps on. Does the high beam indicator illuminate and remain on?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Remove the instrument cluster. 2. Connect a test lamp from the instrument cluster connector terminal A17 to ground. Refer to <i>Circuit Testing</i> in Wiring Systems. 3. Turn the headlamps on. 4. Place the multi-function lever in the high beam position. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 6
4	Test for and repair a poor connection at the instrument cluster connector terminal A17. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 7	Go to Step 6
5	Replace the instrument cluster. Refer to <i>IP Cluster Replacement</i> in Instrument Cluster, Gauges, and Console. Did you complete the replacement?	—	Go to Step 7	—
6	Repair the open in circuit 11. Refer to <i>Wiring Repairs</i> in Wiring Systems. 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

IP Compartment Lamp Inoperative

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	Open the IP compartment door. Does the IP compartment lamp illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Test for and repair an open or a poor connection in the supply voltage of the IP compartment lamp. Refer to <i>Circuit Testing</i> or <i>Testing for Intermittent and Poor Connections</i> and <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you find and repair an open or a poor connection?	—	Go to Step 6	Go to Step 4
4	Test for and repair an open or a poor connection in the supply voltage of the IP compartment lamp. Refer to <i>Circuit Testing</i> or <i>Testing for Intermittent and Poor Connections</i> and <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you find and repair an open or a poor connection?	—	Go to Step 6	Go to Step 5
5	Replace the IP compartment lamp. Refer to <i>IP Compartment Lamp Replacement</i> in Instrument Cluster, Gauges, and Console. Did you complete the replacement?	—	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

Instrument Panel Lamps Do Not Dim

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn on the park lamps. 3. Attempt to dim the instrument panel lamps using the IP dimmer switch. Do the instrument panel lamps dim?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the ignition switch to the RUN position. 2. Disconnect the IP dimmer switch. 3. Connect a test lamp between the IP dimmer switch connector terminal D and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 5	Go to Step 4
4	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Chevrolet)</i> or <i>Headlamp Switch Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 6	—
5	Repair the short to battery voltage in circuit 44 or in circuit 8. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the replacement?	—	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

Instrument Panel Lamps Inoperative

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn on the park lamps. 3. Set the IP dimmer switch at the maximum intensity. Do the instrument panel lamps illuminate at maximum intensity?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Connect a test lamp between the IP dimmer switch connector terminal D and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 4
4	Connect a test lamp between the IP dimmer switch connector terminal A and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 5
5	Repair the open in circuit 9 between the IP dimmer switch and S226. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 11	—
6	Test for and repair a poor connection at the IP dimmer switch. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 11	Go to Step 7

Instrument Panel Lamps Inoperative (cont'd)

Step	Action	Value(s)	Yes	No
7	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Chevrolet)</i> or <i>Headlamp Switch Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 11	—
8	Connect a test lamp between the IP fuse block terminal E5 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 9	Go to Step 10
9	Repair the open in circuit 8 between the IP fuse block and S224. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 11	—
10	Repair the open in circuit 44 between the IP fuse block and the IP dimmer switch. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	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

Instrument Panel Lamps Inoperative - One

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn on the park lamps. 3. Set the IP dimmer switch at the maximum intensity. Do the instrument panel lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Connect a test lamp between the circuit 8 terminal at the inoperative instrument panel lamp connector and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 5	Go to Step 4
4	Repair the open in circuit 8 between the inoperative component lamp and S224. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 9	—
5	Connect a test lamp between the inoperative component connector circuit 8 and the instrument lamp ground circuit. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 7	Go to Step 6
6	Repair an open or a poor connection in the ground circuit of the inoperative lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 9	—
7	Test for and repair a poor connection at the inoperative lamp. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 9	Go to Step 8
8	Replace the inoperative lamp. 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

Park Lamps Inoperative (with DRL Scandinavia)

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the headlamp switch to the PARK position. Do the park lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Connect a test lamp between the headlamp switch connector terminal B and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 6
4	Connect a test lamp between the headlamp switch connector terminal H and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 5	Go to Step 7
5	Replace the headlamp switch. Refer to <i>Headlamp Switch Replacement (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 8	—
6	Repair a poor connection or an open in circuit 141 between S210 and the headlamp switch connector terminal B. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage circuit of the park lamps. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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 Lamps Inoperative - Left

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the headlamp switch to the PARK position. Do the park lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the left park lamp. 2. Leave the headlamp switch in the PARK position. 3. Connect a test lamp between the supply voltage circuit of the left park lamp and the ground circuit of the left park lamp. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the left park lamp. Refer to one of the following procedures: • <i>Park/Turn Signal Lamp Replacement (Chevrolet)</i> • <i>Park/Turn Signal Lamp Replacement (Pontiac Firebird)</i> • <i>Park/Turn Signal Lamp Replacement (Pontiac Trans Am)</i> Did you complete the replacement?	—	Go to Step 7	—

Park Lamps Inoperative - Left (cont'd)

Step	Action	Value(s)	Yes	No
5	Test for and repair a poor connection or an open in the supply voltage circuit of the left park lamp. Refer to <i>Testing for Intermittent and Poor Connections</i> or <i>Circuit Testing and Connector Repairs</i> or <i>Wiring Repairs</i> in Wiring Systems. Did you find and repair a poor connection or an open?	—	Go to Step 7	Go to Step 6
6	Repair a poor connection or an open in the left park lamp ground circuit. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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

Park Lamps Inoperative - Right

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the headlamp switch to the PARK position. Do the park lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the right park lamp. 2. Leave the headlamp switch in the PARK position. 3. Connect a test lamp between the supply voltage circuit of the right park lamp and the ground circuit of the right park lamp. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the right park lamp. Refer to one of the following procedures: • <i>Park/Turn Signal Lamp Replacement (Chevrolet)</i> • <i>Park/Turn Signal Lamp Replacement (Pontiac Firebird)</i> • <i>Park/Turn Signal Lamp Replacement (Pontiac Trans Am)</i> Did you complete the replacement?	—	Go to Step 7	—
5	Test for and repair an open or a poor connection in the supply voltage circuit of the right park lamp. Refer to <i>Circuit Testing</i> or <i>Testing for Intermittent and Poor Connections</i> and <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you find and repair an open or a poor connection?	—	Go to Step 7	Go to Step 6
6	Repair a poor connection or an open in the ground circuit of the right park lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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

Park/Turn Lamps Inoperative - Front

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn on the park lamps. Do the park/turn lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the ignition switch to the RUN position. 2. Connect a test lamp between the DRL module connector C2 terminal C and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Connect a test lamp between the DRL module connector C2 terminal F and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
5	Repair a poor connection or an open in the ignition 1 voltage circuit of the DRL module. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
6	Replace the DRL module. Refer to <i>Daytime Running Lights (DRL) Control Module Replacement</i> . Did you complete the replacement?	—	Go to Step 8	—
7	Repair a poor connection or an open in the ignition 3 voltage circuit of the DRL module. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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/Turn Lamps Inoperative - One Front

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the park lamps on. Do the park/turn lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Cover the DRL ambient light sensor. 2. Turn the ignition switch to the RUN position. 3. Connect a test lamp between the inoperative park/turn lamp terminal A and terminal G. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the inoperative lamp. Refer to <i>Park/Turn Signal Lamp Replacement (Pontiac Firebird)</i> or <i>Park/Turn Signal Lamp Replacement (Pontiac Trans Am)</i> . Did you complete the replacement?	—	Go to Step 8	—

Park/Turn Lamps Inoperative - One Front (cont'd)

Step	Action	Value(s)	Yes	No
5	Connect a test lamp between the inoperative turn lamp terminal A and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the ground circuit. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage circuit of the park/turn signal lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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

Position Lamps Inoperative - Left

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	Does the system operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the position lamp. 2. Turn on the switch that would turn on the position lamp. 3. Connect a test lamp between the supply voltage circuit of the left position lamp and the ground circuit of the position lamp. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the left position lamp. Did you complete the replacement?	—	Go to Step 8	—
5	Connect a test lamp between the supply voltage circuit of the left position lamp and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the ground circuit of the position lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage circuit of the left position lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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

Side Marker Lamp Inoperative - One Lamp

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn on the park lamps. Do the side marker lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the side marker lamp. 2. Leave the park lamps on. 3. Connect a test lamp between the supply voltage circuit of the side marker lamp and the ground circuit of the side marker lamp. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the side marker lamp. Refer to <i>Marker Lamp Replacement - Side or Side Marker Lamp Replacement</i> . Did you complete the replacement?	—	Go to Step 8	—
5	Connect a test lamp between the supply voltage circuit of the side marker lamp and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the ground circuit of the side marker lamp. Refer to <i>Wiring Repairs or Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage circuit of the side marker lamp. Refer to <i>Wiring Repairs or Connector Repairs</i> in Wiring Systems. 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

Stop Lamps Inoperative - All

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Depress the brake pedal. Do all of the stop lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Connect a test lamp between the stop lamp/tcc switch harness connector C1 terminal A and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	1. Connect a test lamp between the stop lamp/tcc switch harness connector C1 terminal B and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. 2. Depress and hold the brake pedal. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7

Stop Lamps Inoperative - All (cont'd)

Step	Action	Value(s)	Yes	No
5	Repair a poor connection or an open in the battery positive voltage circuit of the stop lamp/TCC switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
6	Repair a poor connection or an open in the supply voltage circuit of the stop lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Adjust/replace the stop lamp/tcc switch. Refer to <i>Stoplamp Switch Replacement</i> in Hydraulic Brakes. Did you complete the replacement?	—	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

Stop Lamps Inoperative - One

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Depress the brake pedal. Do the stop lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the inoperative lamp. 2. Depress the brake pedal. 3. Connect a test lamp between the supply voltage circuit of the inoperative lamp and the ground circuit of the inoperative lamp. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the inoperative lamp. Refer to <i>Tail Lamp Bulb Replacement (Pontiac)</i> or <i>Tail Lamp Bulb Replacement (Chevrolet)</i> . Did you complete the replacement?	—	Go to Step 8	—
5	Connect a test lamp between the supply voltage circuit of the inoperative lamp and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the ground circuit of the inoperative lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage circuit of the inoperative lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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

Stop Lamps Inoperative - CHMSL Operates

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Depress the brake pedal. Do all of the stop lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Repair a poor connection or an open in the supply voltage circuit of the stop lamp between S243 and C216 terminal P (Pontiac) or S406 (Chevrolet, Japan, Europe, Gulf States). Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 4	—
4	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Stop Lamps Inoperative - Center High Mounted

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Depress the brake pedal. Do all of the stop lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Connect a test lamp between the center high mounted stop lamp (CHMSL) terminal A and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. 2. Depress and hold the brake pedal. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	1. Connect a test lamp between the CHMSL terminal A and terminal B. Refer to <i>Circuit Testing</i> in Wiring Systems. 2. Depress and hold the brake pedal. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
5	Repair a poor connection or an open in the supply voltage circuit of the center high mounted stop lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
6	Replace the CHMSL. Refer to one of the following procedures: • High Mounted Stoplamp Replacement (Chevrolet) • High Mounted Stoplamp Replacement (Chevrolet Convertible) • High Mounted Stoplamp Replacement (Pontiac) • High Mounted Stoplamp Replacement (Pontiac Convertible) Did you complete the replacement?	—	Go to Step 8	—
7	Repair a poor connection or an open in the ground circuit of the center high mounted stop lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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

Stop Lamps Always On

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Ensure that the brake pedal is not depressed. Do the stop lamps remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Disconnect the stop lamp/tcc switch. Do the stop lamps turn off?	—	Go to Step 4	Go to Step 5
4	Replace the stop lamp/tcc switch. Refer to <i>Stoplamp Switch Replacement</i> in Hydraulic Brakes. Did you complete the replacement?	—	Go to Step 6	—
5	Repair a short to battery voltage in the supply voltage circuit of the stop lamp. Refer to <i>Wiring Repairs</i> in Wiring Systems. 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

Tail Lamps Inoperative - LR

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the headlamps on. Do all of the tail lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the inoperative lamp. 2. Leave the headlamps on. 3. Connect a test lamp between the supply voltage circuit of the left rear tail lamp and the ground circuit of the left rear tail lamp. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the left rear tail lamp. Refer to <i>Tail Lamp Replacement (Chevrolet)</i> or <i>Tail Lamp Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 8	—
5	Connect a test lamp between the supply voltage circuit of the left rear tail lamp and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the ground circuit of the left rear tail lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage circuit of the left rear tail lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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

Tail Lamps Inoperative - RR

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the headlamps on. Do all of the tail lamps illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the inoperative lamp. 2. Leave the headlamps on. 3. Connect a test lamp between the supply voltage circuit of the right rear tail lamp and the ground circuit of the right rear tail lamp. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the right rear tail lamp. Refer to <i>Tail Lamp Replacement (Chevrolet)</i> or <i>Tail Lamp Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 8	—
5	Connect a test lamp between the supply voltage circuit of the right rear tail lamp and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the ground circuit of the right rear tail lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage circuit of the inoperative lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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 Inoperative

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the left turn signal on. 3. Turn the right turn signal on. Do the turn signal lamps flash?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the ignition switch to the RUN position. 2. Place the turn signal switch in the left turn position. 3. Connect a test lamp between C216 terminal L and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp flash on and off?	—	Go to Step 4	Go to Step 5
4	Replace the turn/hazard switch assembly. Refer to <i>Turn Signal and Multifunction Switch Assembly - Disassemble - Off Vehicle</i> and <i>Turn Signal and Multifunction Switch Assembly - Assemble - Off Vehicle</i> in Steering Wheel and Column - Tilt. Did you complete the replacement?	—	Go to Step 10	—

Turn Signal Lamps Inoperative (cont'd)

Step	Action	Value(s)	Yes	No
5	Connect a test lamp between the signal circuit of the turn signal lamp flasher at the flasher and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp flash off and on?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the signal circuit of the turn signal flasher. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
7	Connect a test lamp between the battery positive voltage circuit of the turn signal flasher and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9
8	Replace the turn signal lamp flasher. Refer to <i>Turn Signal Flasher Replacement (Domestic)</i> or <i>Turn Signal Flasher Replacement (Export)</i> . Did you complete the replacement?	—	Go to Step 10	—
9	Repair a poor connection or an open in the battery positive voltage circuit of the turn signal flasher. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	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

Turn Signal Lamp Inoperative - LF

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the left turn signal on. Does the left turn signal lamp flash?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the left front turn lamp. 2. Turn on the left turn signal. 3. Connect a test lamp between the supply voltage circuit of the left front turn lamp and the ground circuit of the left front turn lamp. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp flash?	—	Go to Step 4	Go to Step 5
4	Replace the left front turn lamp. Refer to one of the following procedures: • <i>Park/Turn Signal Lamp Replacement (Chevrolet)</i> • <i>Park/Turn Signal Lamp Replacement (Pontiac Firebird)</i> • <i>Park/Turn Signal Lamp Replacement (Pontiac Trans Am)</i> Did you complete the replacement?	—	Go to Step 8	—
5	Connect a test lamp between the supply voltage circuit of the left front turn lamp and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp flash?	—	Go to Step 6	Go to Step 7

Turn Signal Lamp Inoperative - LF (cont'd)

Step	Action	Value(s)	Yes	No
6	Repair a poor connection or an open in the ground circuit of the left front turn lamp. Refer to <i>Connector Repairs</i> or <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage circuit of the left front turn lamp. Refer to <i>Connector Repairs</i> or <i>Wiring Repairs</i> in Wiring Systems. 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 Lamp Inoperative - RF

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn the right turn signal on. Does the right turn signal lamp flash?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the right front turn lamp. 2. Turn on the right turn signal. 3. Connect a test lamp between the supply voltage circuit of the right front turn signal lamp and the ground circuit of the right front turn signal lamp. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp flash?	—	Go to Step 4	Go to Step 5
4	Replace the right front turn signal lamp. Refer to one of the following procedures: • <i>Park/Turn Signal Lamp Replacement (Chevrolet)</i> • <i>Park/Turn Signal Lamp Replacement (Pontiac Firebird)</i> • <i>Park/Turn Signal Lamp Replacement (Pontiac Trans Am)</i> Did you complete the replacement?	—	Go to Step 8	—
5	Connect a test lamp between the supply voltage circuit of the right front turn signal lamp and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp flash?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the ground circuit of the right front turn signal lamp. Refer to <i>Connector Repairs</i> or <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage control circuit of the right front turn signal lamp. Refer to <i>Connector Repairs</i> or <i>Wiring Repairs</i> in Wiring Systems. 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 and Hazard Lamps Inoperative

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn on the hazard lamps. 3. Turn off the hazard lamps. 4. Turn on the right turn signal. 5. Turn on the left turn signal. Do the hazard lamps and the turn signal lamps flash?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Test for and repair a poor connection at C216. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 5	Go to Step 4
4	Replace the turn/hazard switch assembly. Refer to <i>Turn Signal and Multifunction Switch Assembly - Disassemble - Off Vehicle</i> and <i>Turn Signal and Multifunction Switch Assembly - Assemble - Off Vehicle</i> in Steering Wheel and Column - Tilt. Did you complete the replacement?	—	Go to Step 5	—
5	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Turn Signal Lamps Inoperative - LR

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn on the left turn signal. Does the left rear turn signal lamp flash?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the left rear turn signal lamp. 2. Turn on the left turn signal. 3. Connect a test lamp between the supply voltage circuit of the left rear turn signal lamp and the ground circuit of the left rear turn signal lamp. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp flash?	—	Go to Step 4	Go to Step 5
4	Replace the left rear turn signal lamp. Refer to one of the following procedures: • <i>Turn Signal Lamp Bulb Replacement - Rear (Chevrolet)</i> • <i>Turn Signal Lamp Bulb Replacement - Rear (Pontiac)</i> Did you complete the replacement?	—	Go to Step 8	—
5	Connect a test lamp between the supply voltage circuit of the left rear turn signal lamp and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp flash?	—	Go to Step 6	Go to Step 7

Turn Signal Lamps Inoperative - LR (cont'd)

Step	Action	Value(s)	Yes	No
6	Repair a poor connection or an open in the ground circuit of the left rear turn signal lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage circuit of the left rear turn signal lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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 Lamp Inoperative - RR

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn on the right turn signal. Does the right rear turn signal lamp flash?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the right rear turn signal lamp. 2. Leave the right turn signal switch on. 3. Connect a test lamp between the supply voltage circuit of the right rear turn signal lamp and the ground circuit of the turn signal lamp. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp flash?	—	Go to Step 4	Go to Step 5
4	Replace the inoperative lamp. Refer to one of the following procedures: • Turn Signal Lamp Bulb Replacement - Rear (Chevrolet) • Turn Signal Lamp Bulb Replacement - Rear (Pontiac) Did you complete the replacement?	—	Go to Step 8	—
5	Connect a test lamp between the supply voltage circuit of the right rear turn signal lamp and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp flash?	—	Go to Step 6	Go to Step 7
6	Repair a poor connection or an open in the ground circuit of the right rear turn signal lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
7	Repair a poor connection or an open in the supply voltage circuit of the right rear turn signal lamp. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. 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 Lamps Always On

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the OFF position. 2. Ensure that the turn signal switch is OFF. Do the turn signal lamps remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Leave the ignition switch at the OFF position. 2. Place the turn signal and hazard switches to the OFF position. 3. Disconnect the turn/hazard switch assembly connector C216. Are the turn signal lamps still on?	—	Go to Step 4	Go to Step 5
4	Repair a short to battery voltage in the supply voltage circuit of the turn signal lamps. Refer to <i>Wiring Repairs</i> in <i>Wiring Systems</i> . Did you complete the repair?	—	Go to Step 6	—
5	Replace the turn/hazard switch assembly. Refer to <i>Turn Signal and Multifunction Switch Assembly - Disassemble - Off Vehicle</i> and <i>Turn Signal and Multifunction Switch Assembly - Assemble - Off Vehicle</i> in <i>Steering Wheel and Column - Tilt</i> . Did you complete the replacement?	—	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

Turn Signal Indicator Always On - Left

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Ensure that the turn signal switch is in the OFF position. 3. Verify that the left turn signal indicator is on. Does the left turn signal indicator remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Replace the instrument cluster. Refer to <i>IP Cluster Replacement</i> in <i>Instrument Cluster, Gauges, and Console</i> . Did you complete the replacement?	—	Go to Step 4	—
4	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Turn Signal Indicator Always On - Right

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Ensure that the turn signal switch is in the OFF position. Does the right turn signal indicator remain off?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Replace the instrument cluster. Refer to <i>IP Cluster Replacement</i> in Instrument Cluster, Gauges, and Console. Did you complete the replacement?	—	Go to Step 4	—
4	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Turn Signal Indicators Inoperative - Left

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn on the left turn signal. Does the left turn signal indicator illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Remove the instrument cluster. 2. Connect a test lamp from the instrument cluster connector terminal A12 to ground. Refer to <i>Circuit Testing</i> in Wiring Systems. 3. Turn the ignition switch to the RUN position. 4. Place the multi-function lever in the left turn position. Does the test lamp blink on then off?	—	Go to Step 4	Go to Step 6
4	Test for and repair a poor connection at the instrument cluster terminal A12. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 7	Go to Step 5
5	Replace the instrument cluster. Refer to <i>IP Cluster Replacement</i> in Instrument Cluster, Gauges, and Console. Did you complete the replacement?	—	Go to Step 7	—
6	Repair the open in circuit 1414 (USA or Gulf States) or circuit 14 (Europe or Japan). Refer to <i>Wiring Repairs</i> in Wiring Systems. 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

Turn Signal Indicators Inoperative - Right

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn on the left turn signal. Does the right turn signal indicator illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Remove the instrument cluster. 2. Connect a test lamp from the instrument cluster connector terminal B10 to ground. Refer to <i>Circuit Testing</i> in Wiring Systems. 3. Turn the ignition switch to the RUN position. 4. Place the multi-function lever in the right turn position. Does the test lamp blink on then off?	—	Go to Step 4	Go to Step 6
4	Test for and repair a poor connection at the instrument cluster terminal B10. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 7	Go to Step 5
5	Replace the instrument cluster. Refer to <i>IP Cluster Replacement</i> in Instrument Cluster, Gauges, and Console. Did you complete the replacement?	—	Go to Step 7	—
6	Repair the open in circuit 1415 (USA or Gulf States) or circuit 15 (Europe or Japan). Refer to <i>Wiring Repairs</i> in Wiring Systems. 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

VF Displays Do Not Change with Park Lamps On

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	1. Turn the ignition to the RUN position. 2. Turn on the park lamps. Does the radio VF display change brilliance with the park lamps on?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the radio connector C1. 2. Turn the ignition switch to the RUN position. 3. Connect a test lamp between the radio connector C1 terminal 7 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. 4. Turn the park lamps on. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 4
4	Repair the open in circuit 8 between the radio and S224. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 7	—

VF Displays Do Not Change with Park Lamps On (cont'd)

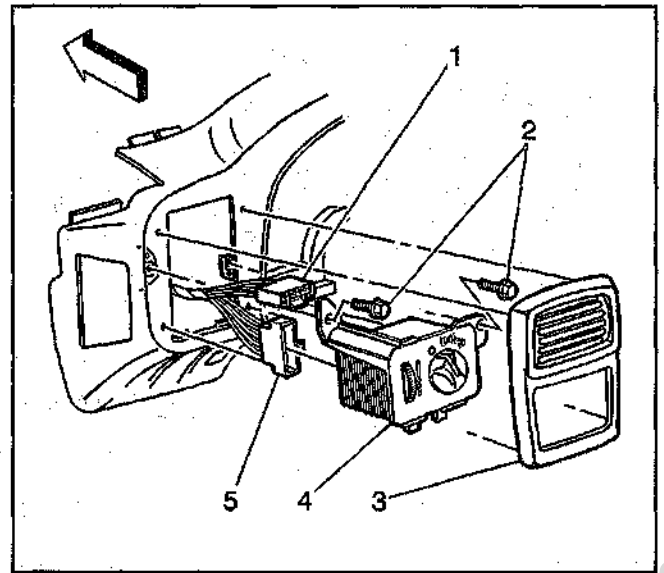
Step	Action	Value(s)	Yes	No
5	Test for and repair a poor connection at the radio connector C1 terminal 7. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 7	Go to Step 6
6	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> in Entertainment. Did you complete the replacement?	—	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

VF Display Inoperative - Radio

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check?	—	Go to Step 2	Go to A Diagnostic System Check - Lighting Systems
2	Turn the ignition to the RUN position. Does the radio VF display illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the radio connector C1. 2. Turn the ignition switch to the RUN position. 3. Connect a test lamp between the radio connector C1 terminal 7 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. 4. Turn the park lamps on. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 4
4	Repair the open in circuit 8 between the radio and S224. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 7	—
5	Test for and repair a poor connection at the radio connector C1 terminal 7. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 7	Go to Step 6
6	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> in Entertainment. Did you complete the replacement?	—	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

Repair Instructions**Headlamp Switch Replacement (Chevrolet)****Removal Procedure**

1. Remove the left hand instrument panel accessory trim plate (3).
2. Remove the headlamp switch bolts (2).
3. Disconnect the headlamp switch connector (1) from the headlamp switch (4).
4. Disconnect the dimmer switch connector (5) from the headlamp switch (4).



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Installation Procedure

1. Connect the dimmer switch connector (5) to the headlamp switch (4).
2. Connect the headlamp switch connector (1) to the headlamp switch (4).

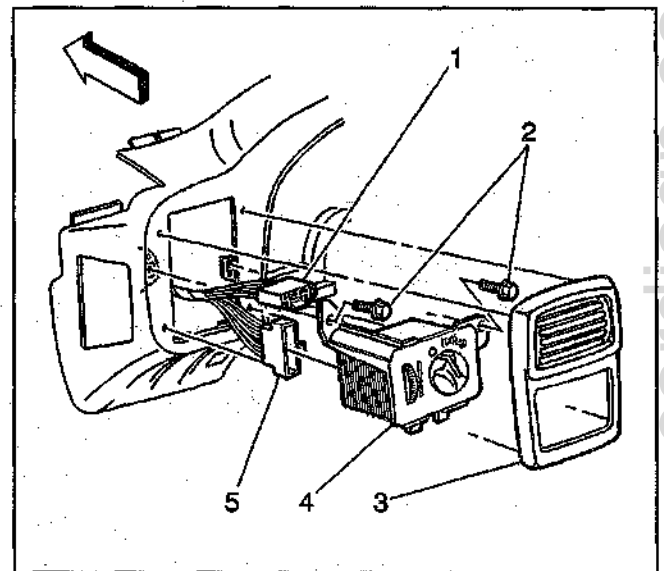
Notice: Refer to *Fastener Notice* in Cautions and Notices.

3. Install the headlamp switch bolts (2).

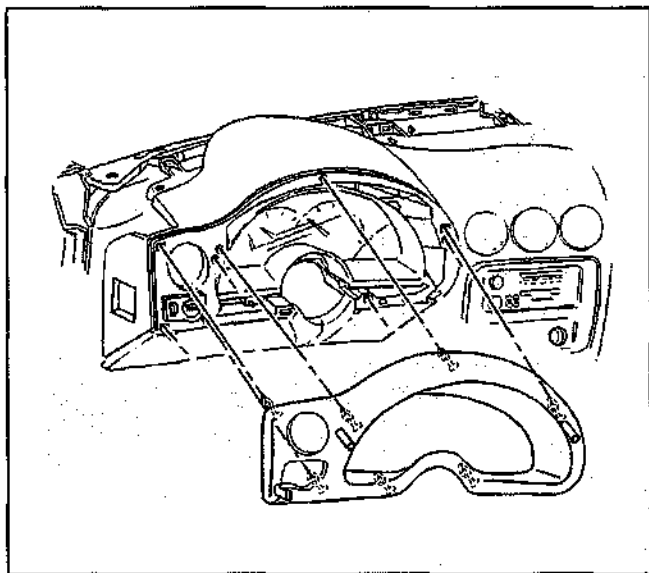
Tighten

Tighten the headlamp switch bolts (2) to 1.9 N·m (17 lb in).

4. Install the left hand instrument panel accessory trim plate (3).



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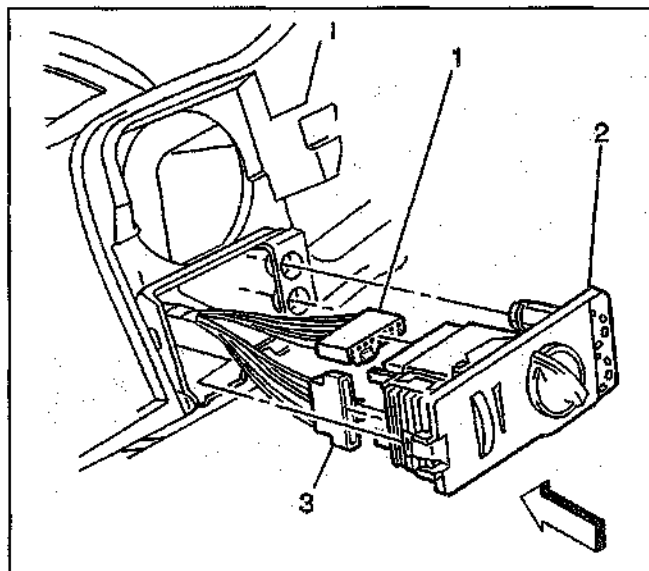


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Headlamp Switch Replacement (Pontiac)

Removal Procedure

1. Remove the instrument panel cluster trim plate bezel.

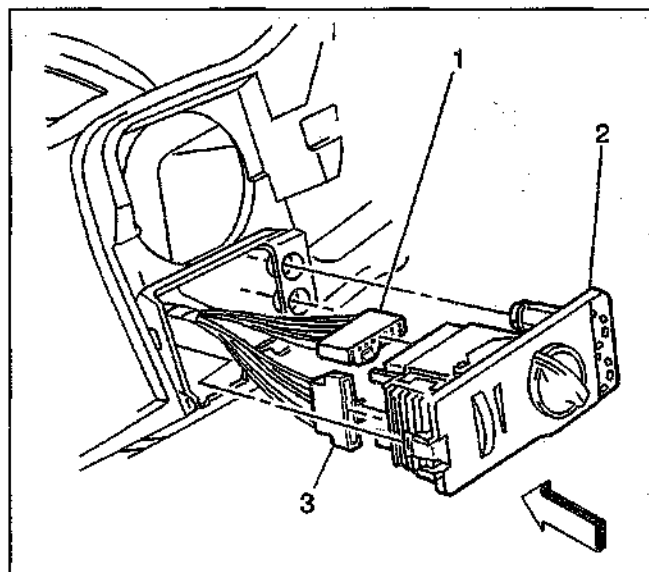


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2. Unsnap the headlamp switch (2) from the instrument panel.

3. Disconnect the headlamp switch (1) connector from the headlamp switch (2).

4. Disconnect the dimmer switch connector (3) from the headlamp switch (2).

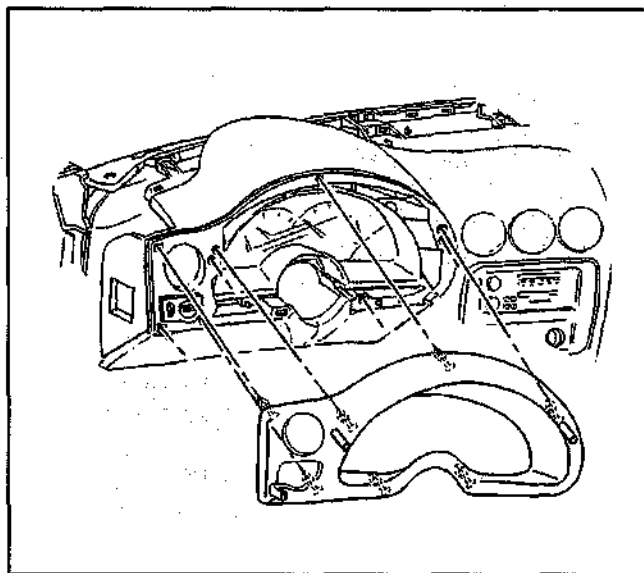


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Installation Procedures

1. Connect the dimmer switch connector (3) to the headlamp switch (2).
2. Connect the headlamp switch connector (1) to the headlamp switch (2).
3. Install the headlamp switch (2) to the instrument panel.

4. Install the instrument panel cluster trim plate bezel.

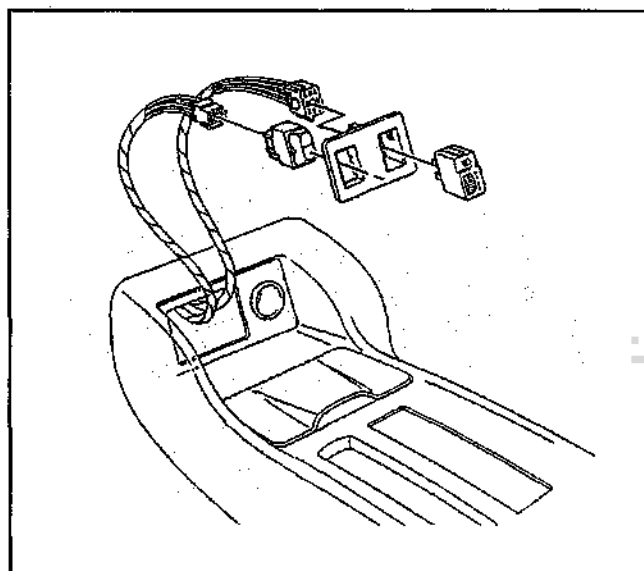


367399

Headlamp Leveling Switch Replacement (Export)

Removal Procedure

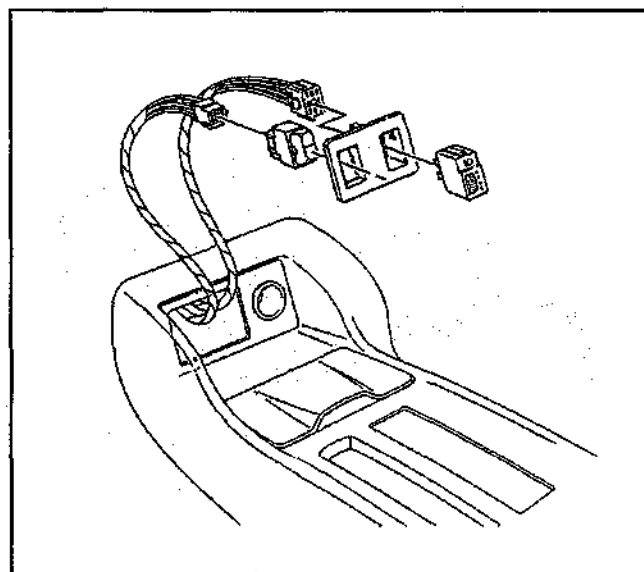
1. Remove the console accessory switch plate from the console.
2. Disconnect the headlamp leveling switch electrical connector.
3. Remove the headlamp leveling switch from the accessory switch plate.



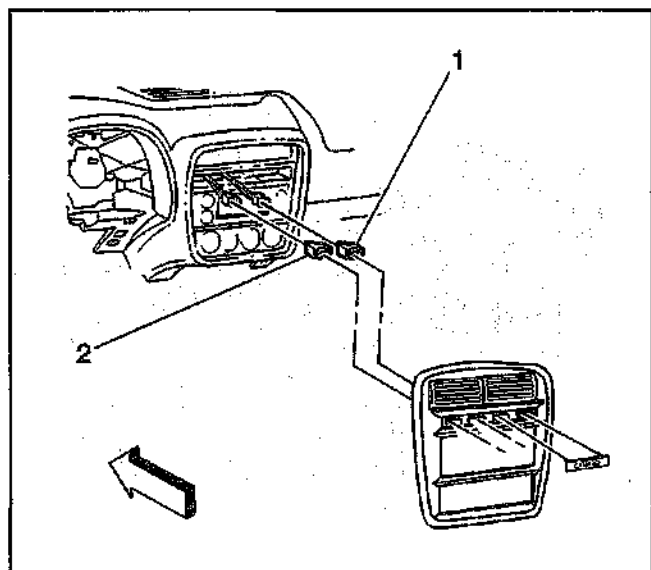
379377

Installation Procedure

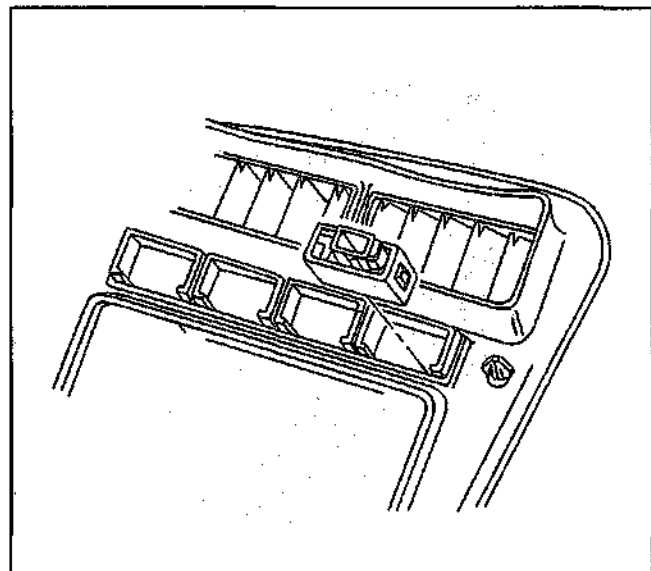
1. Install the headlamp leveling switch into the accessory switch plate.
2. Connect the headlamp leveling switch electrical connector.
3. Install the console accessory switch plate to the console.



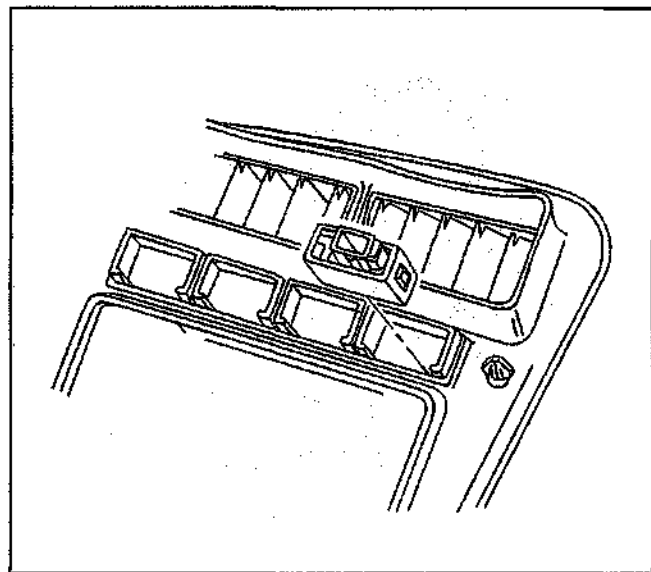
379377



294806



366717



366717

Fog Lamp Switch Replacement - Front (Chevrolet)

Removal Procedure

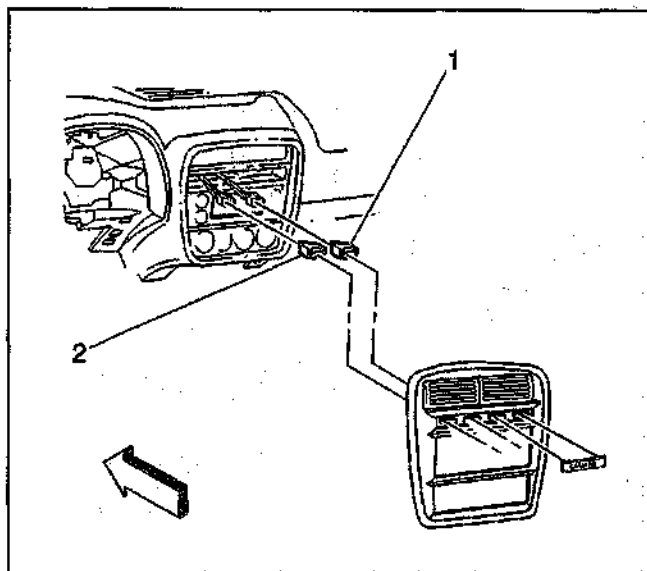
1. Remove the instrument panel accessory trim plate.
2. Disconnect the fog lamp switch (2) electrical connector.
3. Disconnect the electrical connector from one of the following switches (1), if equipped:
 - Traction control
 - Second gear start

4. Unsnap the fog lamp switch from the instrument panel accessory trim plate.

Installation Procedure

1. Install the fog lamp switch to the instrument panel accessory trim plate.
2. Connect the electrical connector to one of the following switches (1), if equipped:
 - Traction control
 - Second gear start

3. Connect the fog lamp switch (2) electrical connector.
4. Install the instrument panel accessory trim plate.

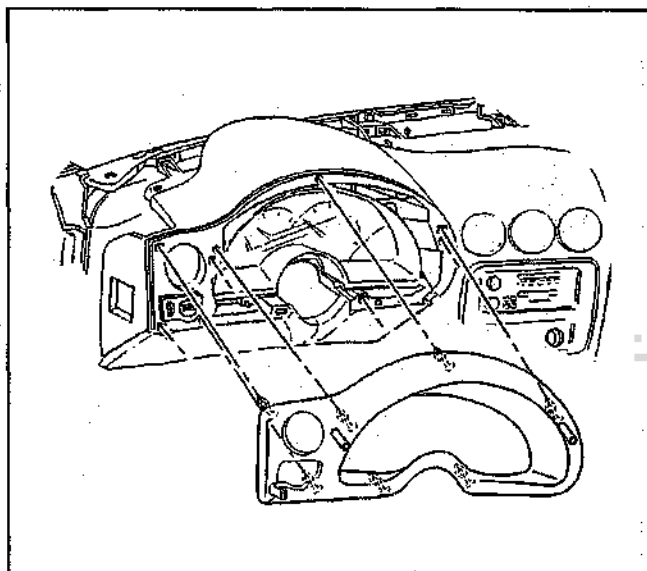


294806

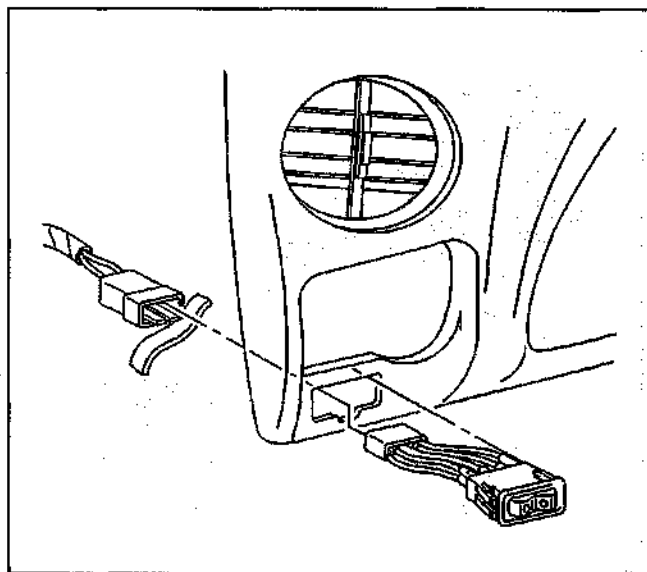
Fog Lamp Switch Replacement - Front (Pontiac)

Removal Procedure

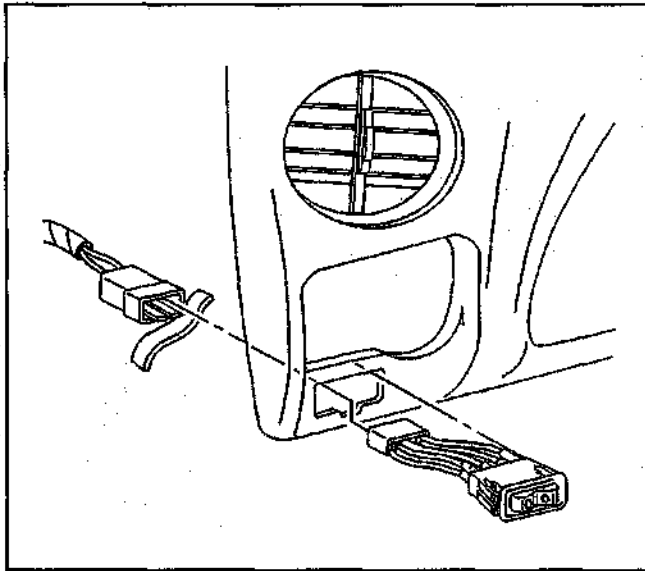
1. Remove the instrument panel cluster trim plate bezel.
2. Remove the foam tape from around the electrical connector.
3. Disconnect the fog lamp switch electrical connector.
4. Remove the fog lamp switch from the instrument panel cluster trim plate bezel.



367399



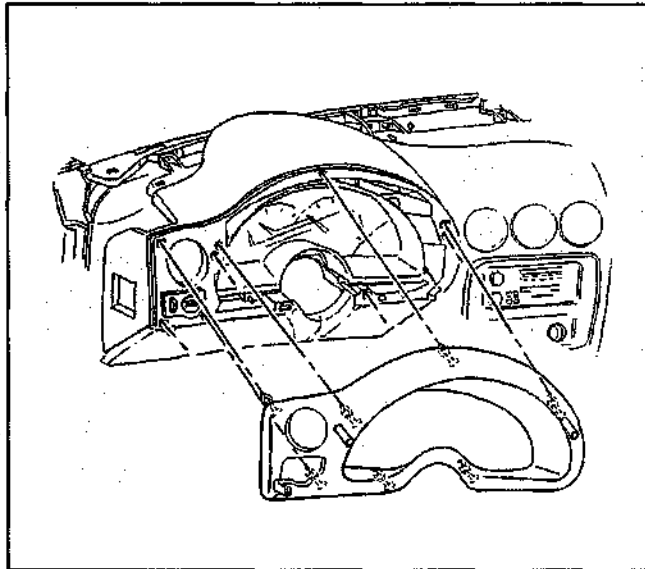
294808



294806

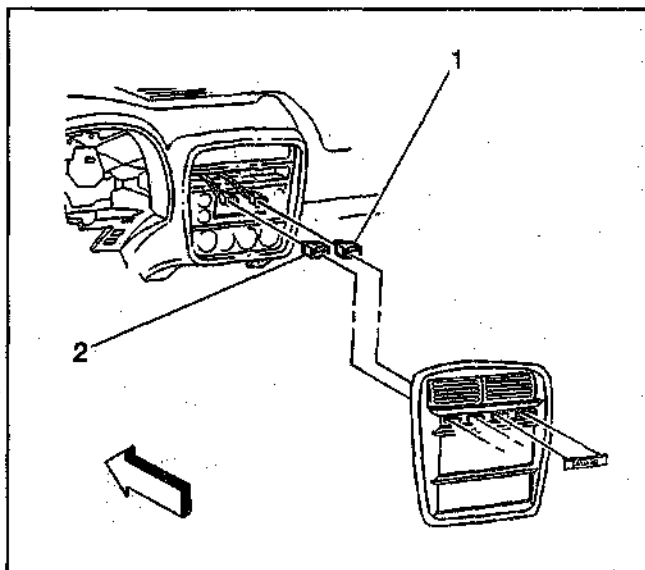
Installation Procedure

1. Install the fog lamp switch to the instrument panel cluster trim plate bezel.
2. Connect the fog lamp switch electrical connector.
3. Reinstall the foam tape around the electrical connector.



367399

4. Install the instrument panel cluster trim plate bezel.



294806

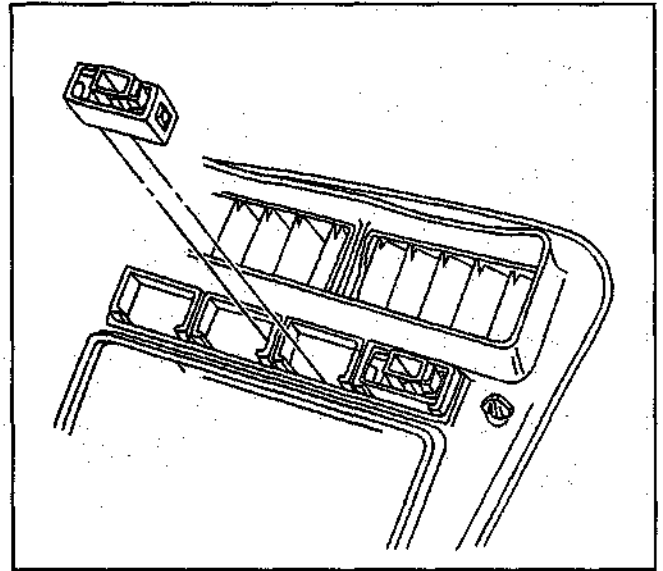
Fog Lamp Switch Replacement - Rear (Export)**Removal Procedure**

1. Remove the instrument panel accessory trim plate.
2. Disconnect the rear fog lamp switch (1) electrical connector.

Important: The rear fog lamp switch (1) will be located in either the 2nd or 3rd position in the trim plate, depending on option content.

3. Disconnect the electrical connector from one of the following switches (2), if equipped:
 - Traction control
 - Second gear start
 - Front fog lamp

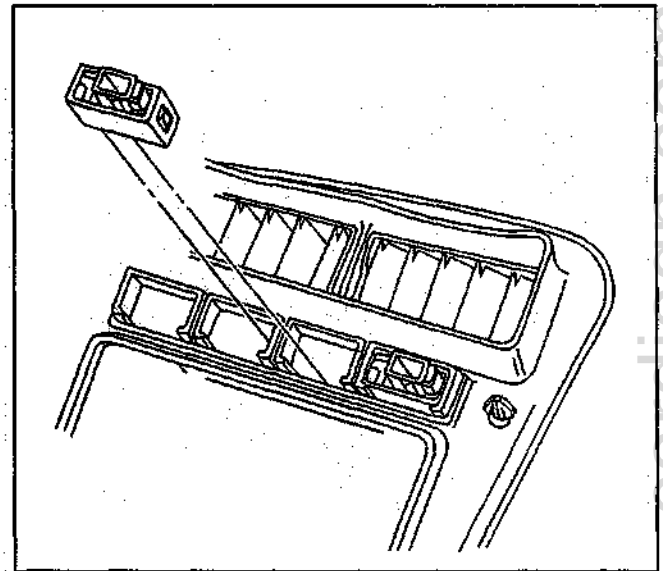
4. Remove the rear fog lamp switch from the instrument panel trim plate.



367395

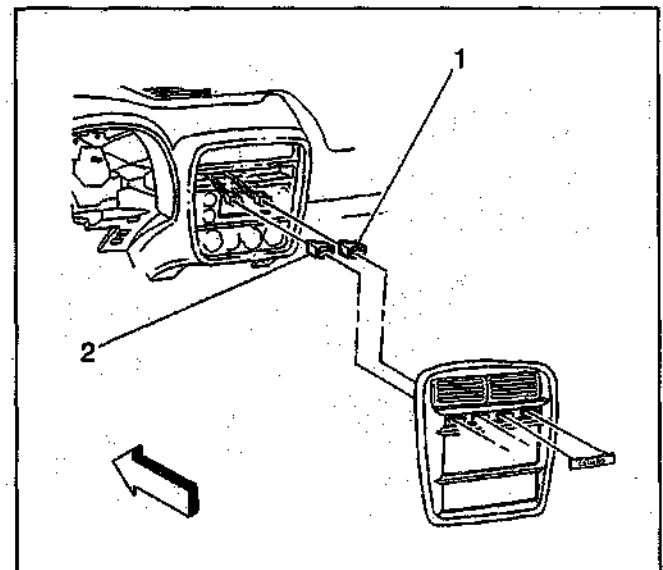
Installation Procedure

1. Install the rear fog lamp switch to the instrument panel trim plate.
2. Connect the electrical connector to one of the following switches if equipped:
 - Traction control
 - Second gear start
 - Front fog lamp



367395

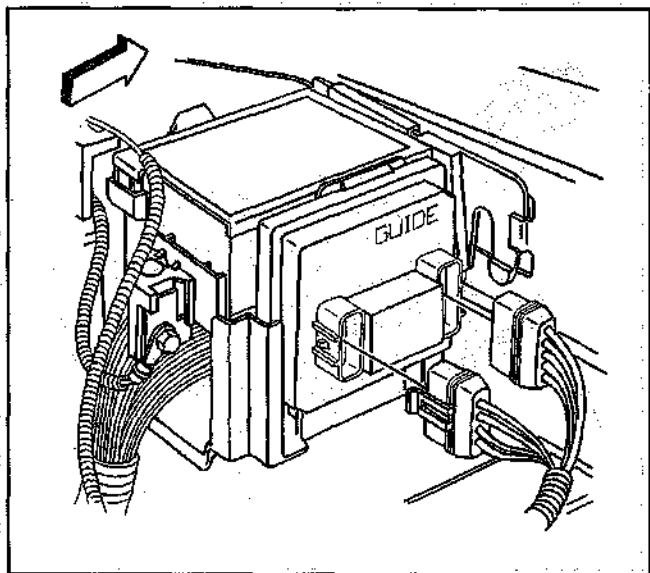
3. Connect the rear fog lamp switch (1) electrical connector.
4. Install the instrument panel accessory trim plate.



294806

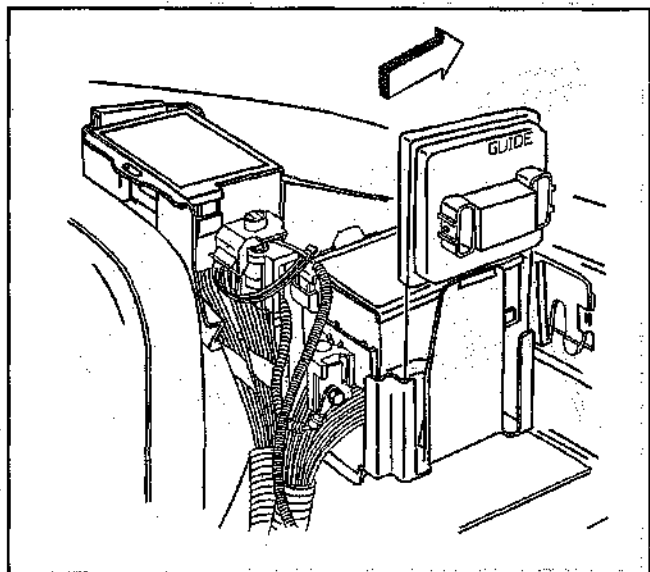
Headlamp Door Module Replacement**Removal Procedure**

1. Disconnect the headlamp door opening actuator control module electrical connectors.



294733

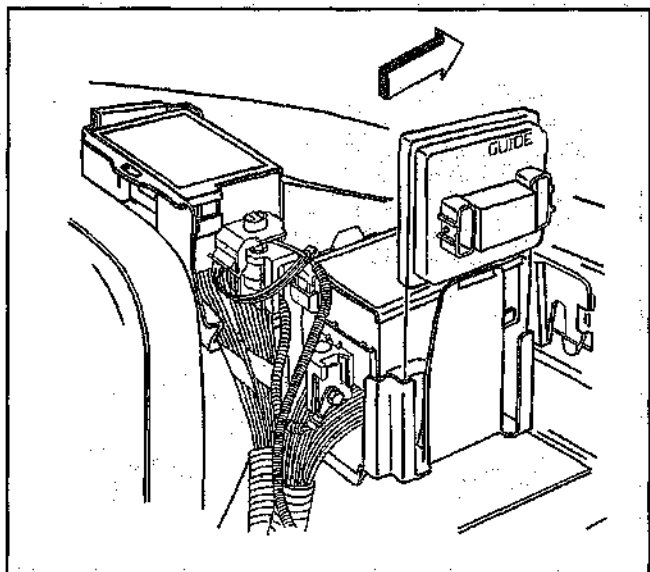
2. Remove the headlamp door opening actuator control module from the forward lamp harness bracket.



294735

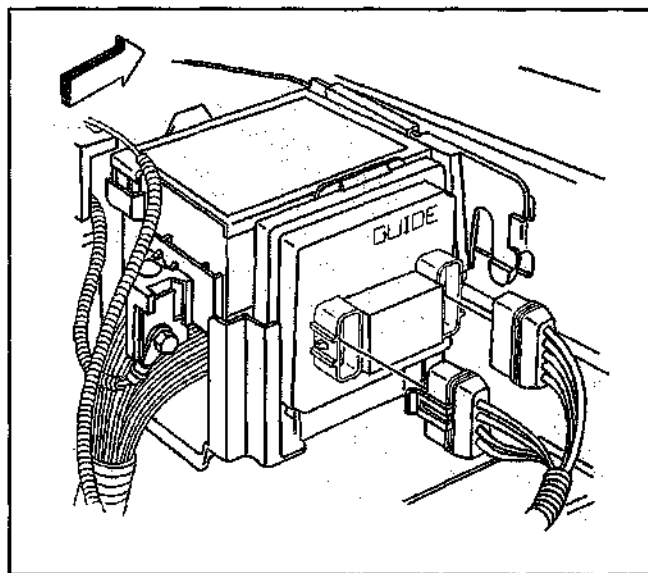
Installation Procedure

1. Install the headlamp opening door actuator control module to the forward lamp harness bracket.
2. Slide the module into the bracket until module locks into place.



294735

3. Connect the headlamp opening door actuator control module electrical connectors.

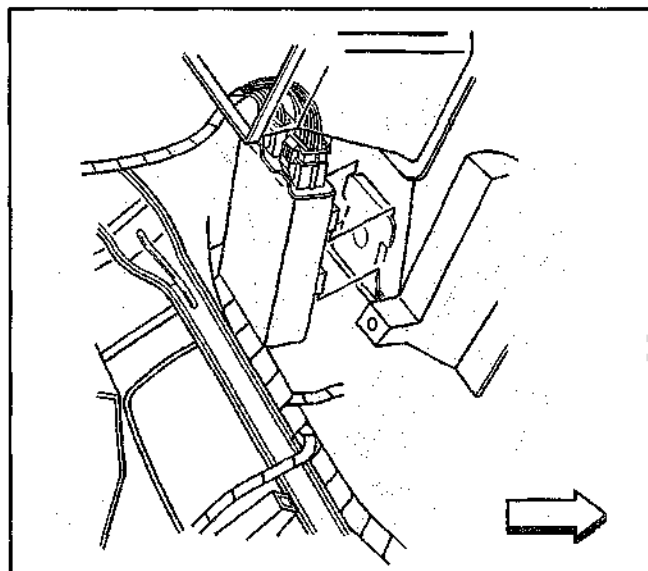


294733

Daytime Running Lights (DRL) Control Module Replacement

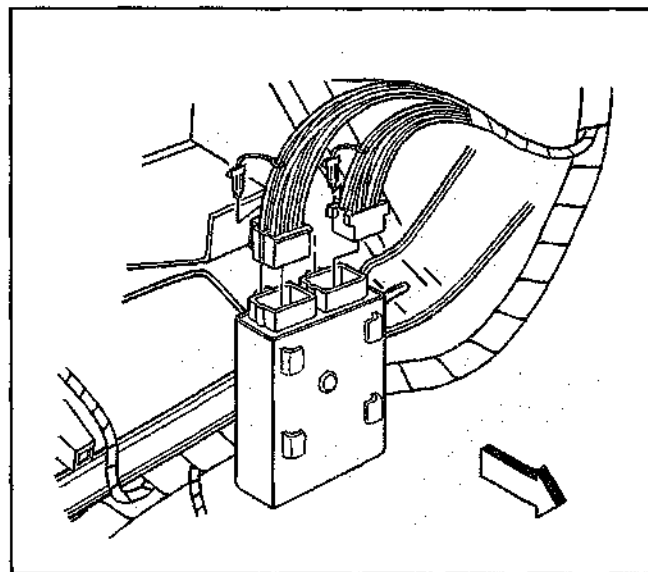
Removal Procedure

1. Remove the radio. Refer to *Radio Replacement (Chevrolet)* or *Radio Replacement (Pontiac)* in Entertainment.
2. Remove the daytime running light (DRL) ambient light sensor module from the HVAC duct.

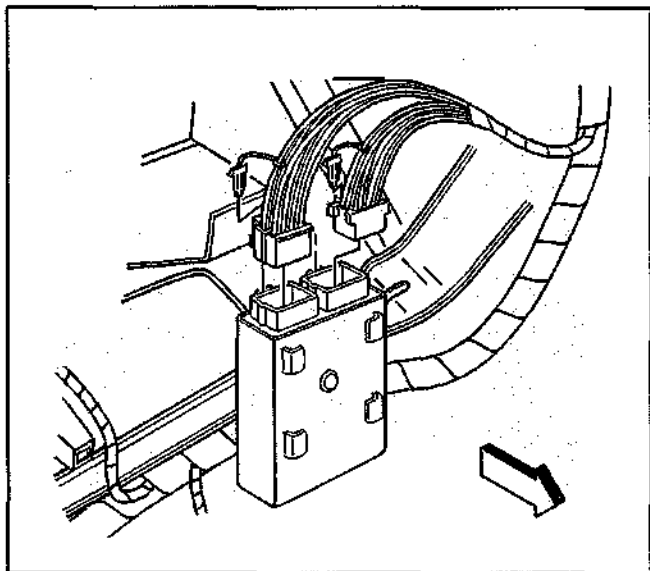


294803

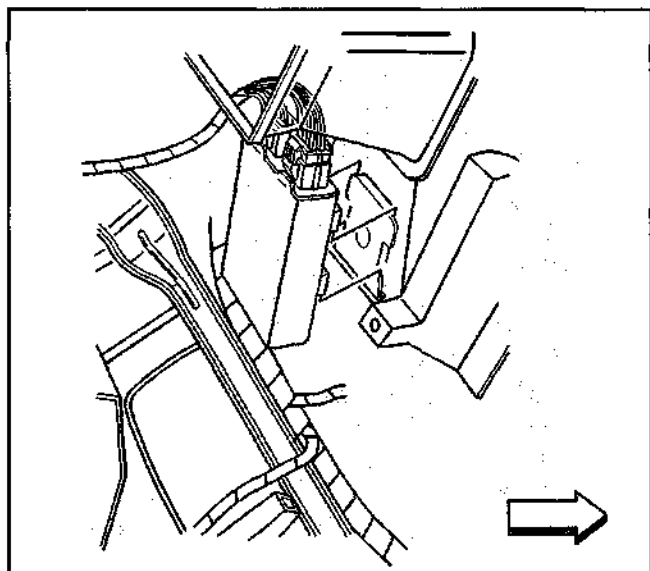
3. Disconnect the DRL module electrical connectors.
4. Remove the DRL module.



294804



294804

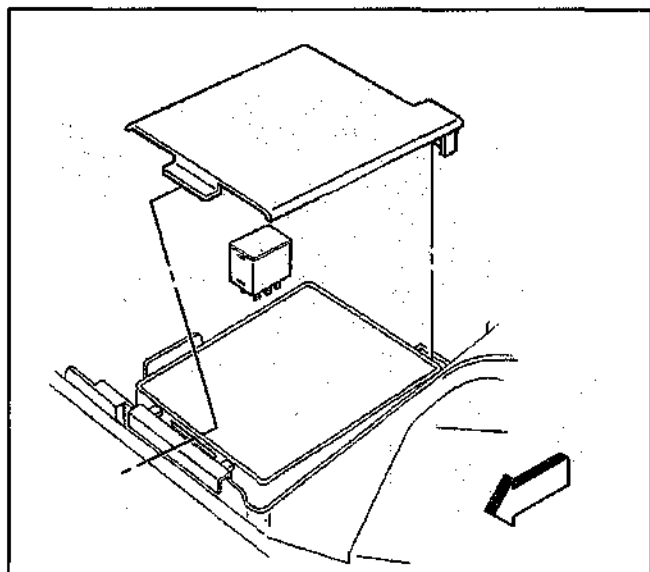


294803

Installation Procedure

1. Install the DRL module.
2. Connect the DRL module electrical connectors.

3. Slide the module onto the HVAC duct retainers.
4. Install the radio. Refer to *Radio Replacement (Chevrolet)* or *Radio Replacement (Pontiac)* in Entertainment.



401242

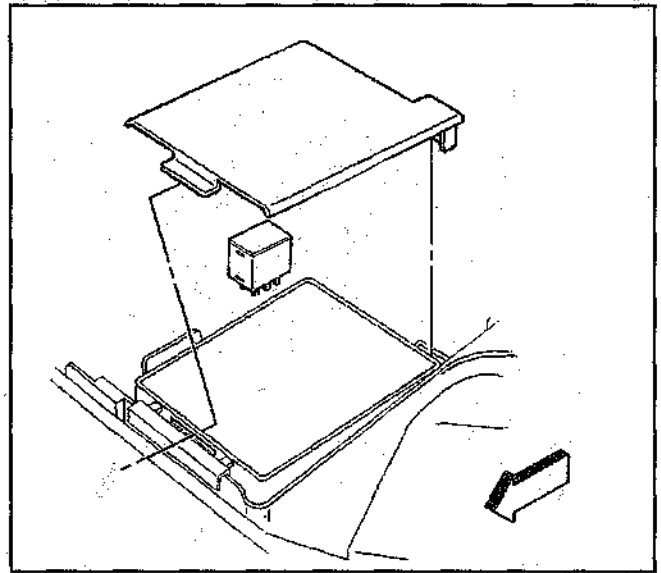
Fog Lamp Relay Replacement

Removal Procedure

1. Remove the cover the on the number 1 underhood electrical center.
2. Remove the fog lamp relay from the electrical center. Refer to *Electrical Center Identification Views* for the location.

Installation Procedure

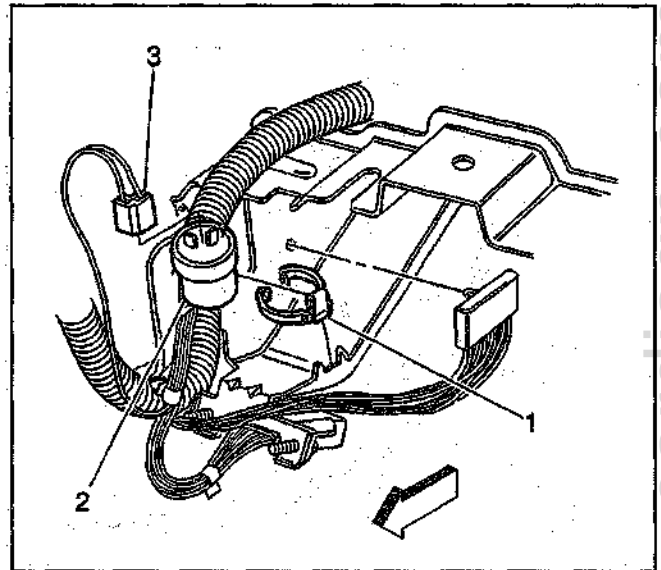
1. Install the fog lamp relay to the electrical center. Refer to *Electrical Center Identification Views* for the location.
2. Install the cover on the number 1 underhood electrical center.



401242

Turn Signal Flasher Replacement (Domestic)**Removal Procedure**

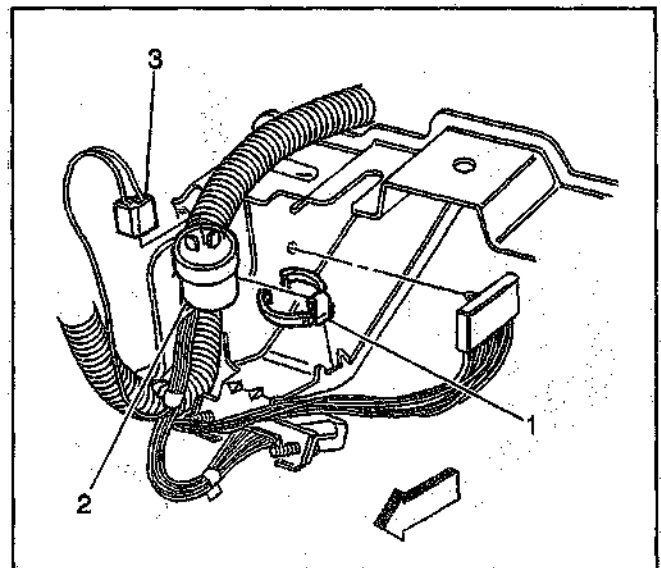
1. Remove the clip (1) from the instrument panel tie bar.
2. Disconnect the turn signal flasher (2) electrical connector (3).
3. Remove the clip (1) from the turn signal flasher (2).



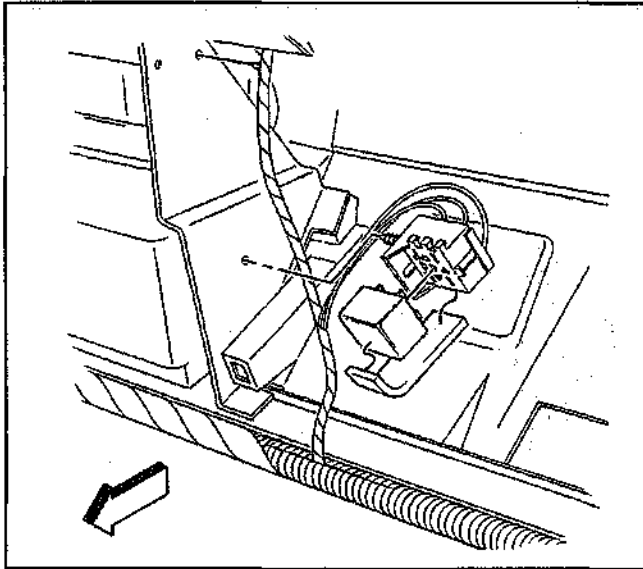
294777

Installation Procedure

1. Install the clip (1) to the turn signal flasher (2).
2. Connect the turn signal flasher (2) electrical connector (3).
3. Install the clip (1) to the instrument panel tie bar.



294777

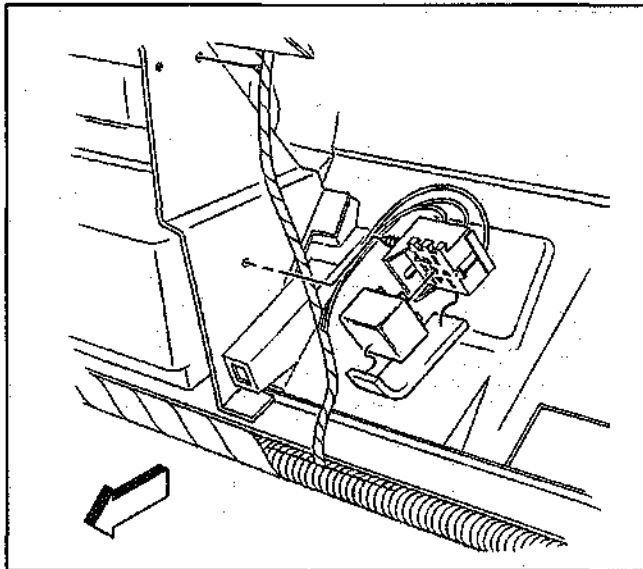


379373

Turn Signal Flasher Replacement (Export)

Removal Procedure

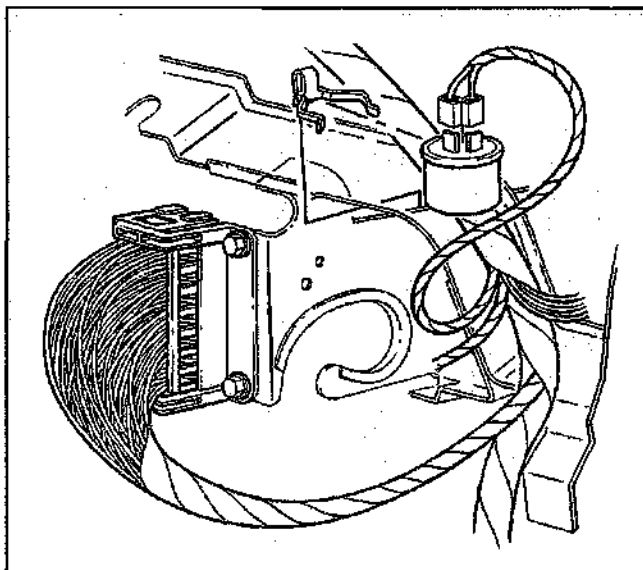
1. Open the I/P compartment door.
Push in on the sides of the compartment, and drop the compartment down.
2. Remove the turn signal flasher from the S.I.R. bracket.
3. Remove the insulator tape from the flasher.
4. Disconnect the turn signal flasher electrical.



379373

Installation Procedure

1. Connect the turn signal flasher electrical connector.
2. Install the insulator tape to the flasher.
3. Install the turn signal flasher to the S.I.R. bracket.
4. Push in on the sides of the compartment, and insert the compartment.
5. Close the I/P compartment door.



294724

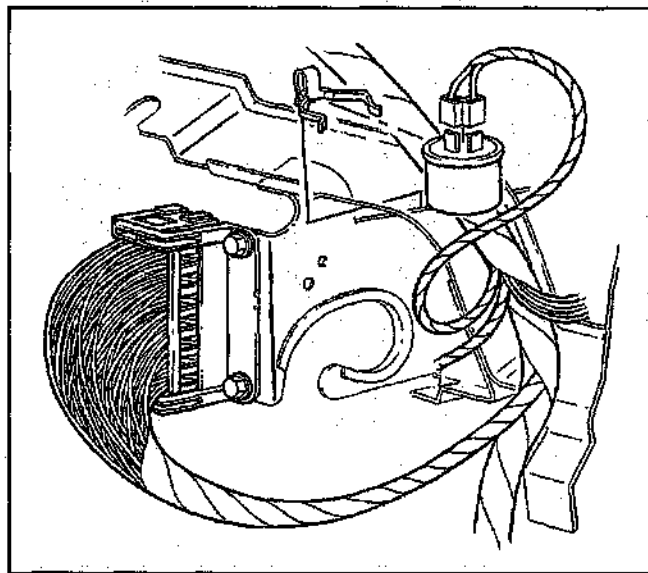
Hazard Lamp Flasher Replacement

Removal Procedure

1. Remove the instrument panel driver knee bolster.
Refer to *Knee Bolster Replacement - Left* in Instrument Panel, Gauges and Console.
2. Remove the retaining clip from the 48 way connector bracket.
3. Remove the hazard lamp flasher from the retaining clip.
4. Disconnect the hazard lamp flasher electrical connector.

Installation Procedure

1. Connect the hazard lamp flasher electrical connector.
2. Install the hazard lamp flasher to the retaining clip.
3. Install the retaining clip to the 48 way connector bracket.
4. Install the instrument panel driver knee bolster. Refer to *Knee Bolster Replacement - Left* in Instrument Panel, Gauges and Console.



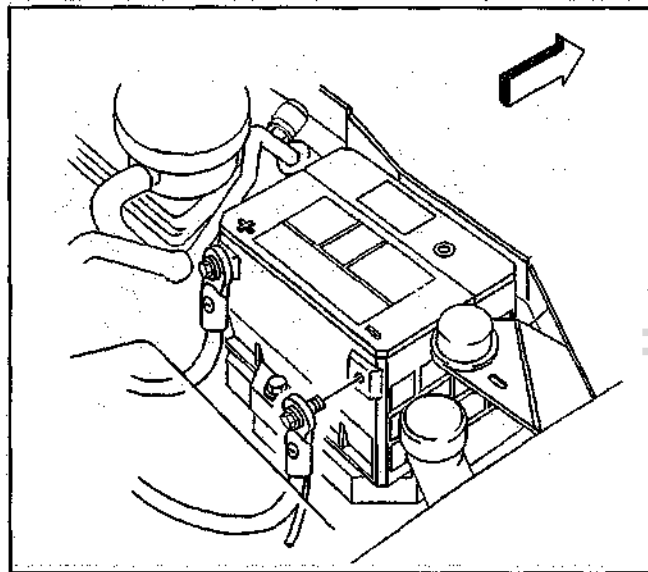
294724

Headlamp Replacement (Chevrolet)

Removal Procedure

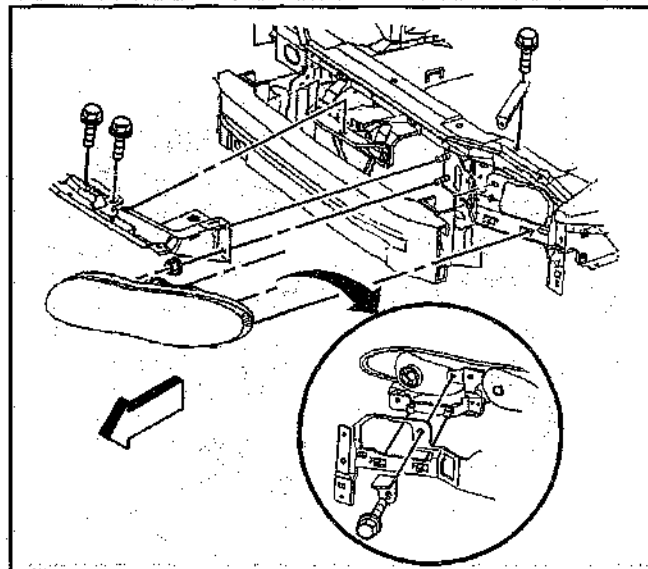
Caution: Refer to *Battery Disconnect Caution in Cautions and Notices*.

1. Disconnect the negative battery cable. Refer to *Battery Negative Cable Disconnect/Connect Procedure* in Engine Electrical.

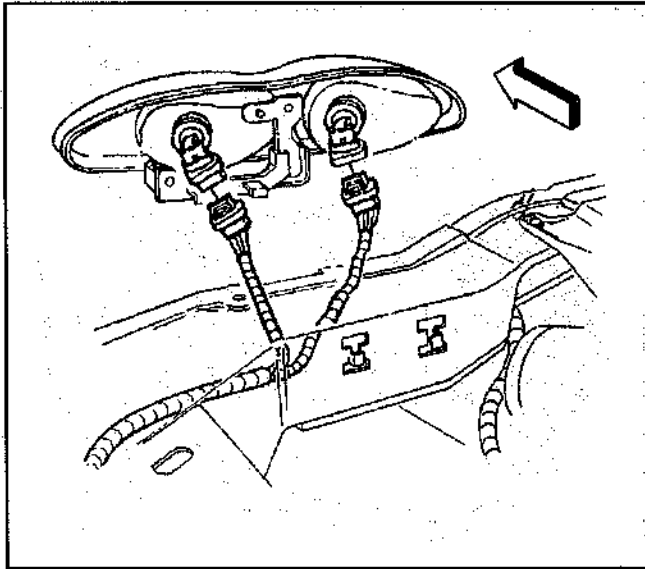


208241

2. Remove the headlamp housing bracket bolt attaching the headlamp to the headlamp bracket.
3. Slide the headlamp outboard to disengage the headlamp tabs from the headlamp brackets slots.

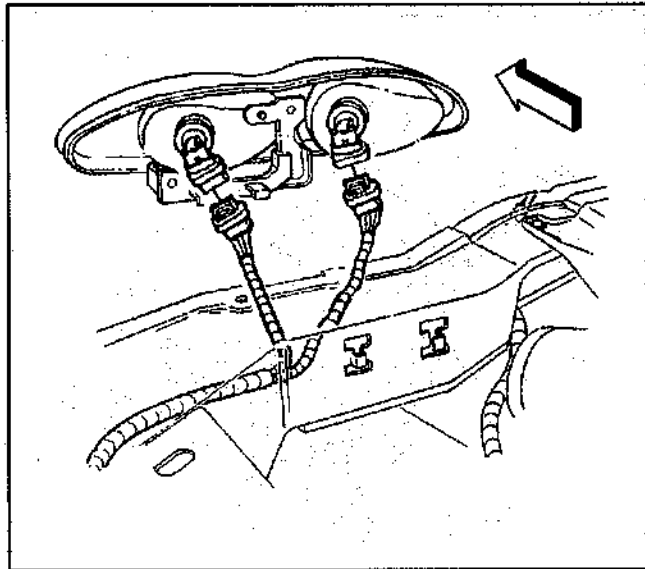


294727



294726

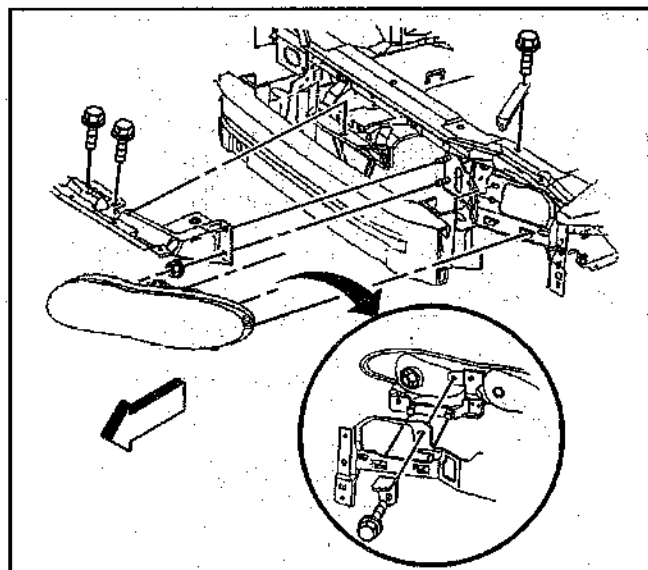
4. Pull the headlamp forward to access electrical connectors.
5. Disconnect the electrical connectors from the headlamp.
6. Remove the headlamp.



294726

Installation Procedure

1. Perform the following to install the headlamp:
 - 1.1. Connect the electrical connector to the headlamp.
 - 1.2. Engage tabs on back of headlamp into the slots in the headlamp bracket.



294727

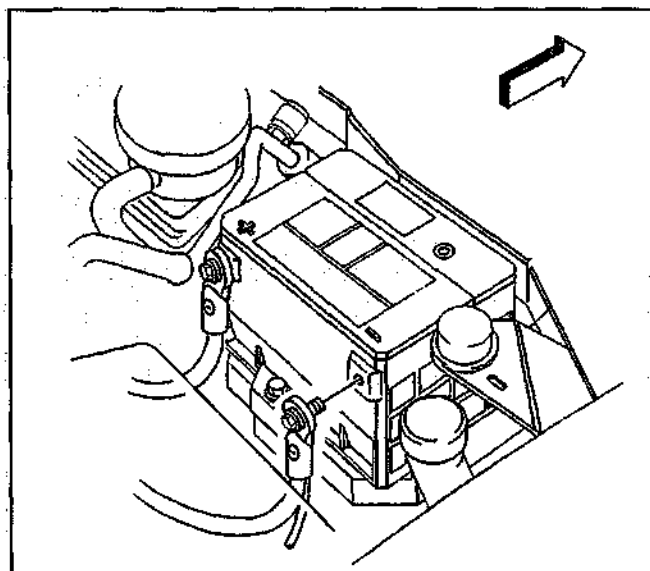
Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the headlamp housing bracket bolt attaching the headlamp to the headlamp bracket.

Tighten

Tighten the headlamp housing bracket bolt to 7 N·m (62 lb in).

3. Connect the negative battery cable. Refer to *Battery Negative Cable Disconnect/Connect Procedure* in Engine Electrical.

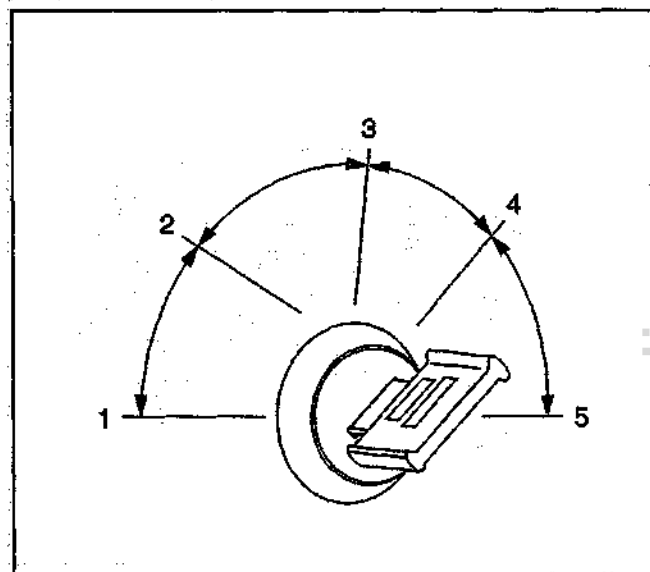


208241

Headlamp Replacement (Pontiac)

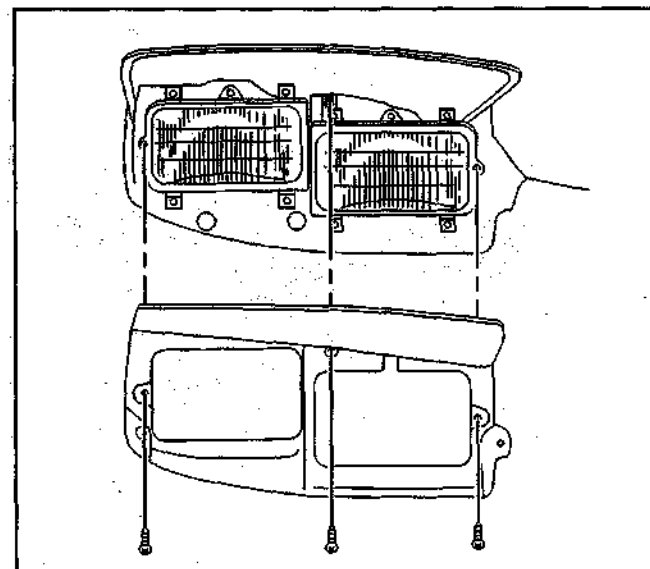
Removal Procedure

1. Turn the ignition key to the RUN position (4).
2. Turn the headlamps ON, then turn the switch back to park lamps.
This will leave the headlamps in the up position with the lamps off.
3. Turn the ignition key to the OFF position (1).

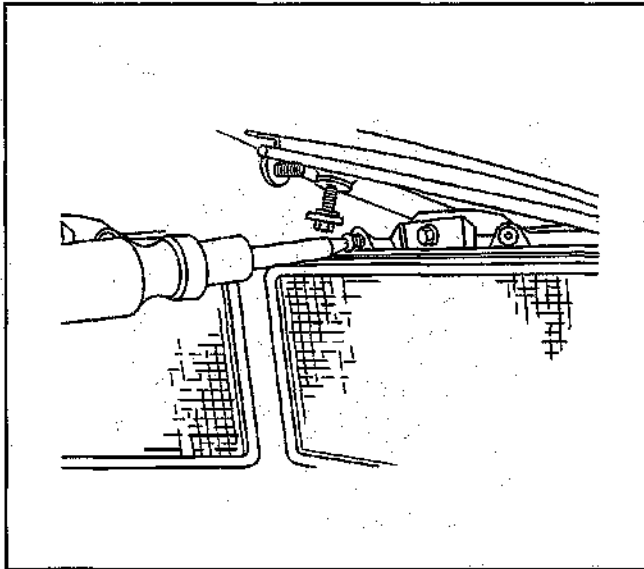


341078

4. Open the hood.
5. Remove the headlamp bezel screws.
6. Remove the headlamp bezel.

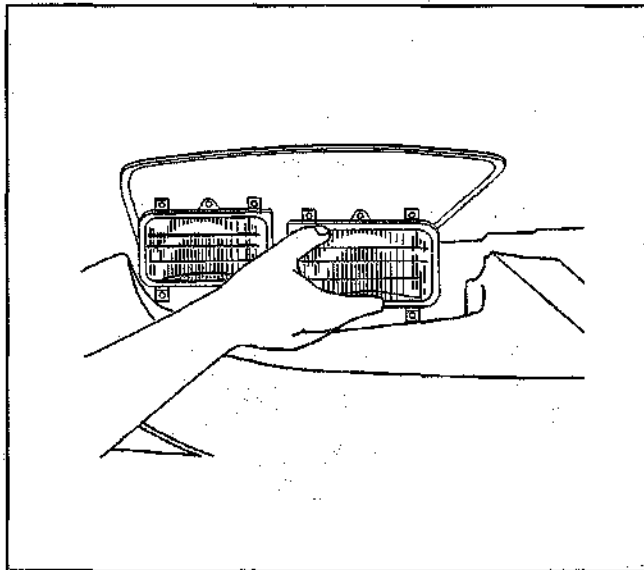


402675



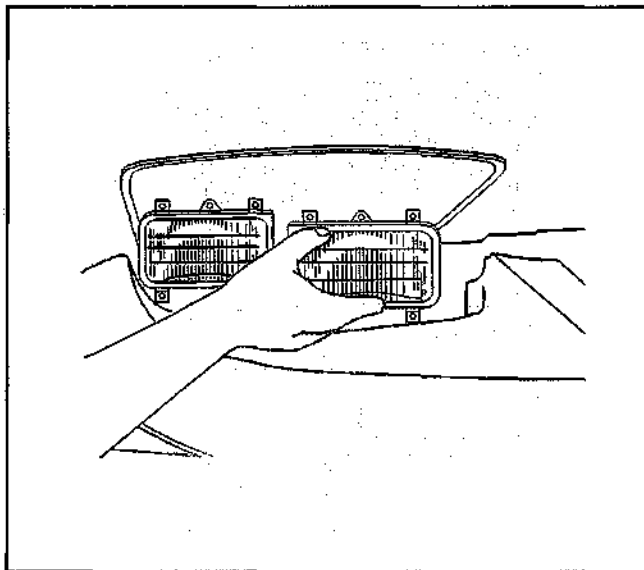
402683

7. Remove the headlamp screws that attach the mounting ring to the headlamp housing.
8. Remove the headlamp mounting ring.
9. Disconnect the electrical connector from the headlamp.



402693

10. Remove the headlamp.

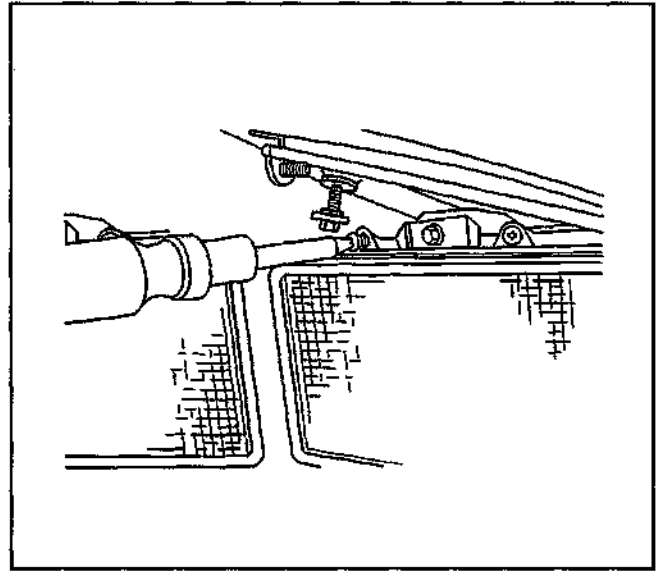


402693

Installation Procedure

1. Connect the electrical connector to the headlamp.
2. Install the headlamp.

3. Install the headlamp mounting ring.
4. Install the headlamp screws that attach the mounting ring to the headlamp housing.



402683

5. Install the headlamp bezel.

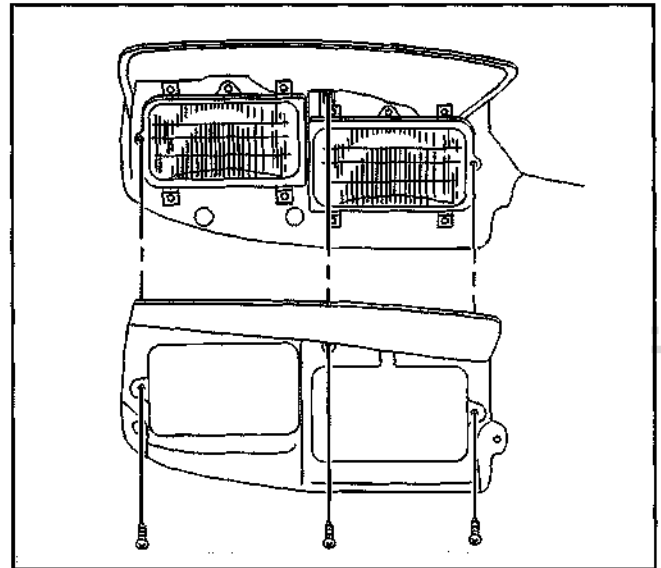
Notice: Refer to *Fastener Notice* in Cautions and Notices.

6. Install the headlamp bezel screws.

Tighten

Tighten the headlamp bezel screws to 1.7 N·m (15 lb in).

7. Close the hood.
8. Turn the headlamp switch off.



402675

Headlamp Bulb Replacement

Removal Procedure

1. Raise the hood.
2. Twist the harness socket from the rear of the headlamp.
3. Remove the headlamp bulb from the harness socket.

Installation Procedure

Caution: Halogen bulbs contain gas under pressure. Handling a bulb improperly could cause it to shatter into flying glass fragments. To help avoid personal injury:

- Turn off the lamp switch and allow the bulb to cool before changing the bulb.
- Leave the lamp switch OFF until the bulb change is complete.
- Always wear eye protection when changing a halogen bulb.
- Handle the bulb only by its base. Avoid touching the glass.
- Keep dirt and moisture off the bulb.
- Properly dispose of the used bulb.
- Keep halogen bulbs out of the reach of children.

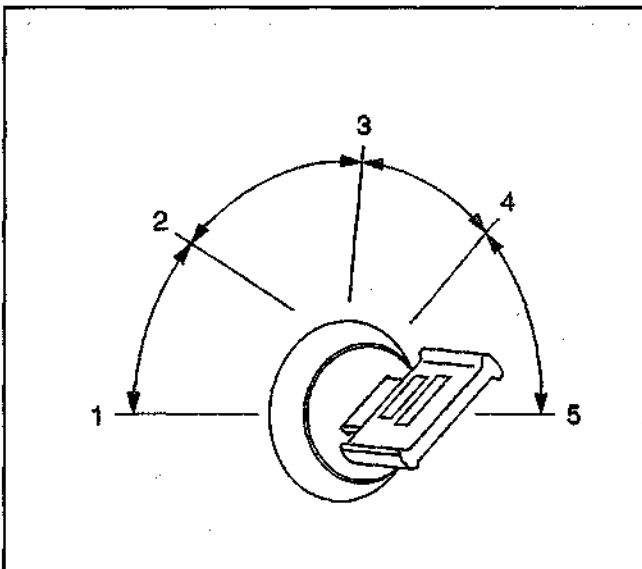
Notice: Avoid touching the bulb or letting the bulb come in contact with anything damp. Oil from your skin or moisture on the bulb can cause the bulb to explode when the bulb is turned on. If either comes in contact with the bulb, clean the bulb with alcohol or a suitable degreaser and wipe the bulb dry.

1. Install the headlamp bulb to the harness socket.
2. Install the harness socket to the rear of the headlamp.
3. Close the hood.

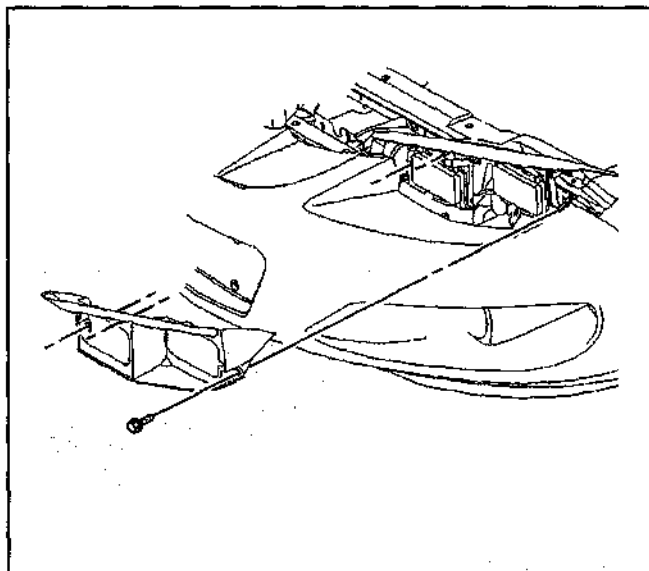
Headlamp Opening Door Replacement

Removal Procedure

1. Turn the ignition key to the RUN position (4).
2. Turn the headlamps ON, then turn the switch back to park lamps.
This will leave the headlamps in the up position with the lamps off.
3. Turn the ignition key to the OFF position (1).

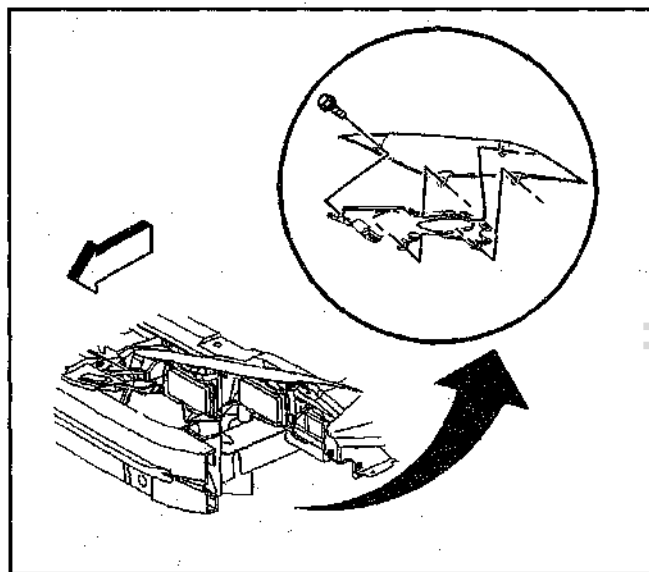


4. Open the hood.
5. Remove the two rear headlamp door bolts.
6. Remove the headlamp bezel screws.
7. Remove the headlamp bezel.



294737

8. Remove the two front headlamp door bolts.
9. Turn the headlamp switch off to lower the headlamps.
10. Remove the headlamp door.



294732

Installation Procedure

1. Install the headlamp door.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install rear inboard headlamp door bolt first.

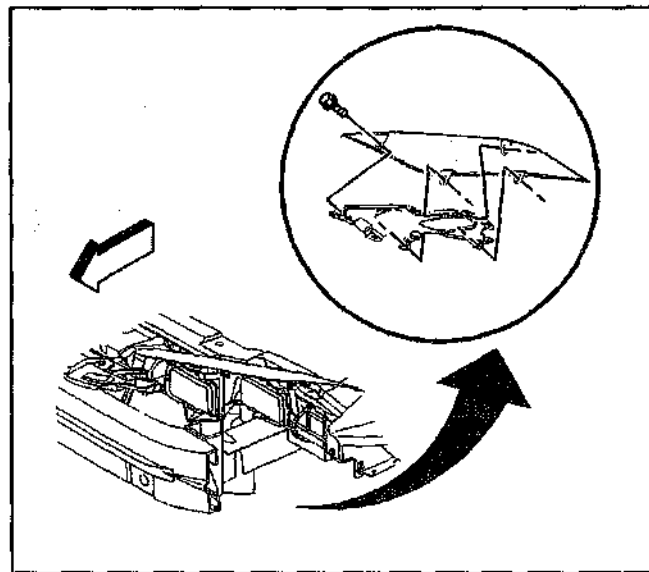
Tighten

Tighten the headlamp door bolt to 1.7 N·m (15 lb in).

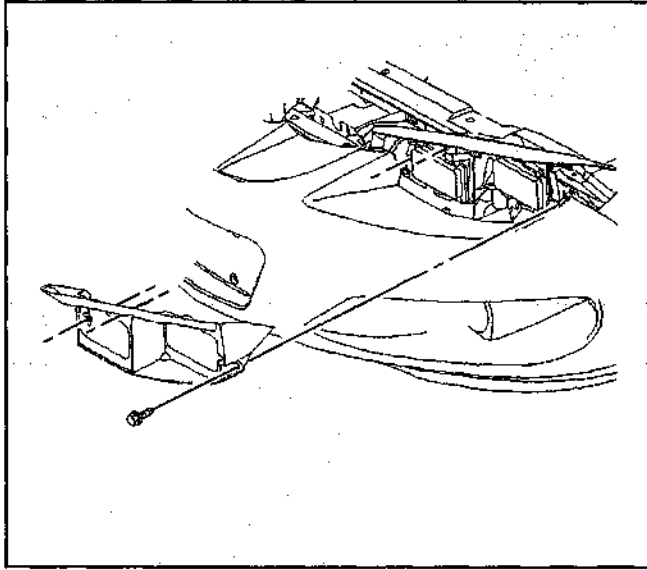
3. Install the rear outboard headlamp door bolt next.

Tighten

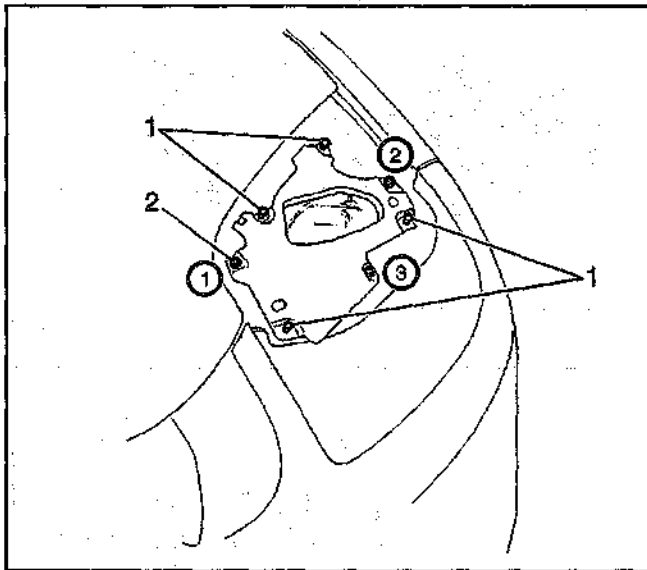
Tighten the headlamp door bolt to 2.0 N·m (18 lb in).



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294737



379376

4. Turn headlamp switch on, then turn switch back to park lamp.
This will leave headlamps in the up position with lamps off.

5. Install the front two headlamp door bolts.

Tighten

Tighten the headlamp door bolt to 1.7 N·m (15 lb in).

6. Install the headlamp bezel.
7. Install the headlamp bezel screws.

Tighten

Tighten the headlamp bezel screws to the 1.7 N·m (15 lb in).

8. Close the hood.
9. Turn the headlamp switch off to lower the headlamps.

Headlamp Opening Door Adjustment

Important: A new headlamp door should be placed on the vehicle without any door inner adjustment.

1. Inspect the headlamp door for the following:
 - Gap
 - Flushness
 - Height
2. To adjust for gap and/or flushness relative to the hood, fascia, and fender, perform the following:
 - 2.1. Remove the headlamp door. Refer to *Headlamp Opening Door Replacement*.
 - 2.2. Loosen the intermediate bracket to headlamp housing screws (2).
 - 2.3. Place the headlamp door into position.
 - 2.4. Check gap and/or flushness.
 - 2.5. Repeat the previous 3 steps as necessary, until the correct gap and/or flushness is achieved.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

- 2.6. Tighten the intermediate bracket headlamp housing screws (2) in the sequence shown.

Tighten

Tighten the intermediate bracket headlamp housing screws to 2.0 N·m (18 lb in).

- 2.7. Install the headlamp door. Refer to *Headlamp Opening Door Replacement*.

3. To adjust the headlamp door height relative to the hood, fascia, and fender, perform the following:
 - 3.1. Remove the headlamp door. Refer to *Headlamp Opening Door Replacement*.
 - 3.2. Adjust the height by turning the adjustable set screws (1) located on the four corners of the intermediate bracket.
 - 3.3. Place the headlamp door into position.
 - 3.4. Check the height.
 - 3.5. Repeat the previous 3 steps as necessary, until the correct height is achieved.
 - 3.6. Install the headlamp door. Refer to *Headlamp Opening Door Replacement*.

Headlamp Motor/Actuator Replacement

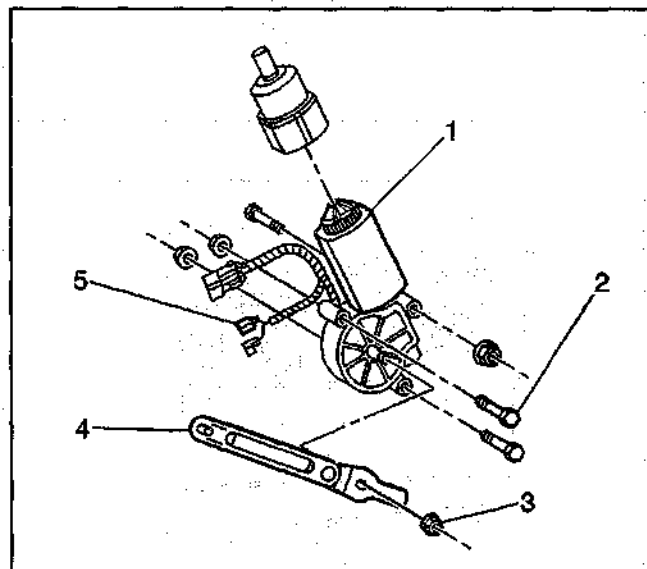
Removal Procedure

1. Remove the headlamp assembly. Refer to *Headlamp Replacement (Pontiac)*.
2. Disconnect the headlamp wiring harness electrical connectors from the headlamp bulbs (5).

Important: Take note of the linkage-to motor relationship for reassembly.

Remove the nut (3) retaining the headlamp assembly pivot arm (4) to the headlamp motor/actuator (1).

3. Remove the three bolts (2) mounting the motor to the headlamp assembly.
4. Remove the headlamp motor/actuator.



506469

Installation Procedure

1. Install the motor/actuator into the position on the headlamp assembly.
2. Install the pivot arm to the motor.
Place the pivot arm in the position that you noted prior to removal.
3. Loosely install the nut retaining the headlamp assembly pivot arm to the motor/actuator.

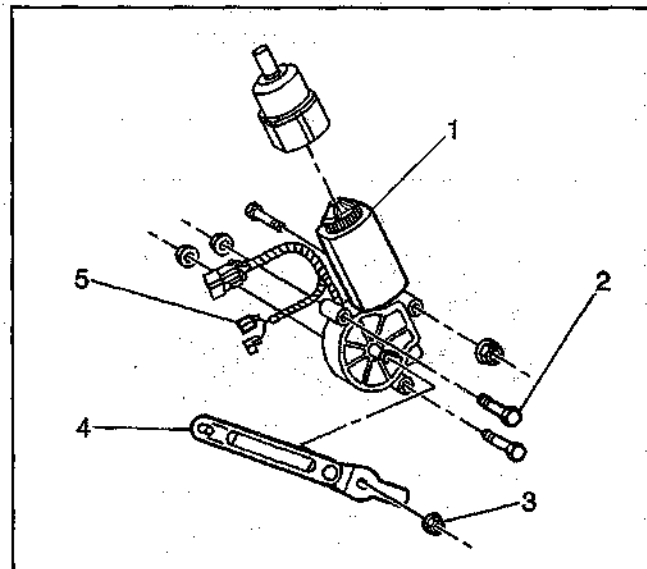
Notice: Refer to *Fastener Notice* in Cautions and Notices.

4. Install the three bolts mounting the headlamp motor/actuator to the headlamp assembly.

Tighten

- Tighten the headlamp motor/actuator mounting bolts to 6.8 N·m (60 lb in).
- Tighten the headlamp motor/actuator to pivot arm not to 56 N·m (50 lb in).

5. Install the headlamp assembly to the vehicle. Refer to *Headlamp Replacement (Pontiac)*.
6. Install the pivot arm (4) with retaining nut (3) to the headlamp motor/actuator (1).
7. Connect the headlamp wiring harness (5) electrical connectors to the headlamp bolts.

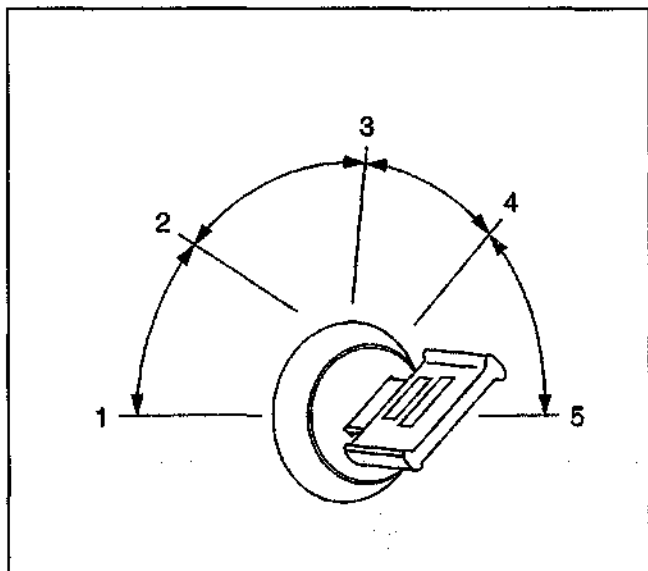


506469

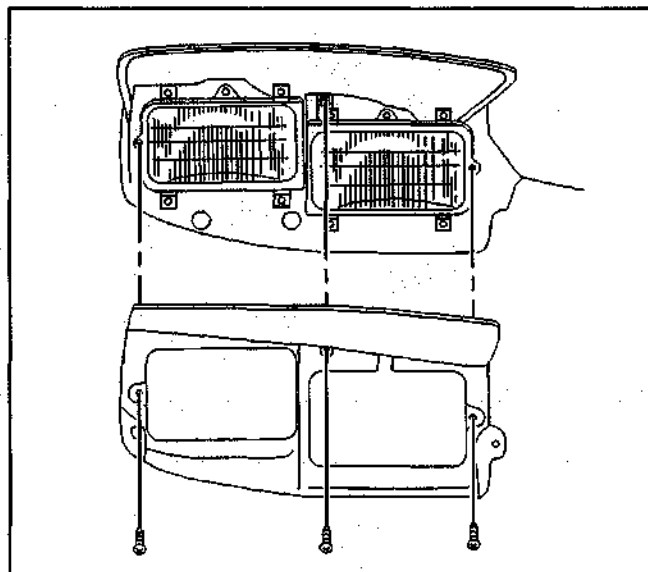
Headlamp Bezel Replacement

Removal Procedure

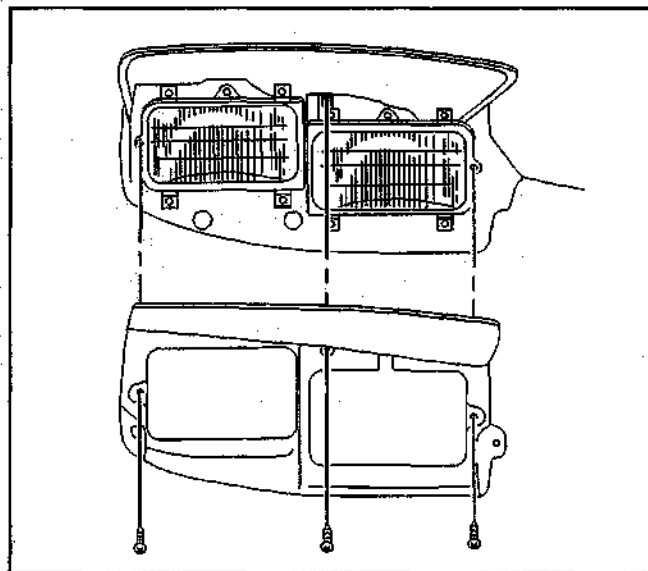
1. Turn the ignition key to the RUN position (4).
2. Turn the headlamps ON, then turn the switch back to park lamps.
This will leave the headlamps in the up position with the lamps off.
3. Turn the ignition key to the OFF position (1).



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4. Open the hood.
5. Remove the headlamp bezel screws.
6. Remove the headlamp bezel.

Installation Procedure

1. Install the headlamp bezel.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the headlamp bezel screws.

Tighten

Tighten the headlamp bezel screws to 1.7 N·m (15 lb in).

3. Close the hood.
4. Turn the headlamp switch off.

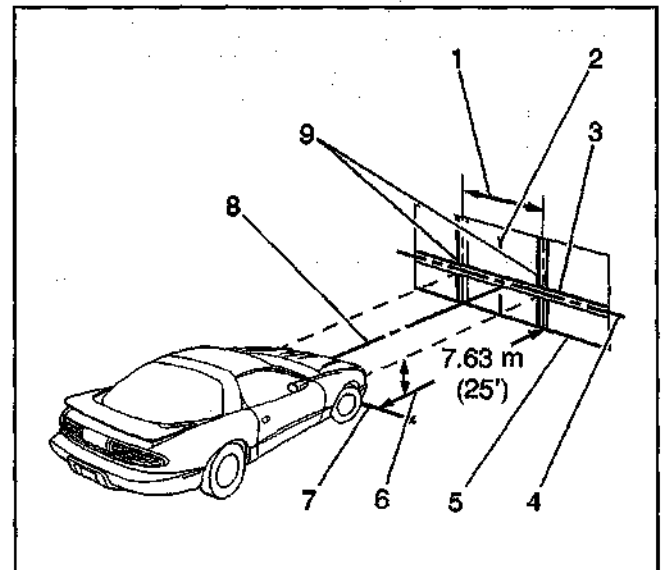
Headlamp Aiming (Screen Method)

Aliming By Screen Method

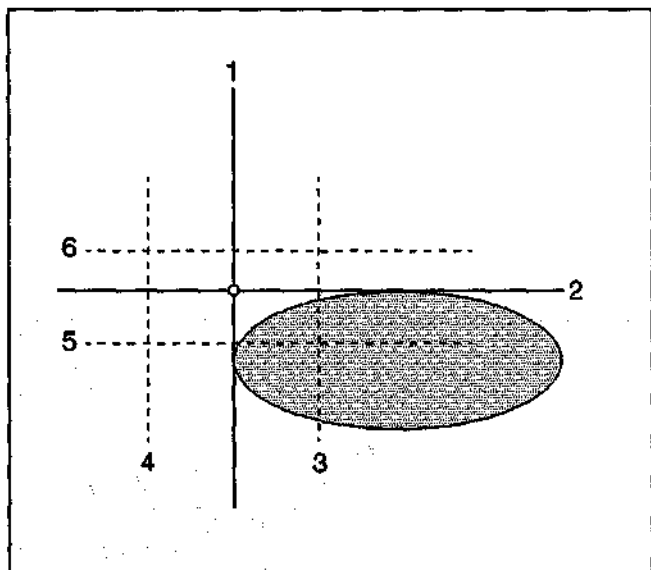
- To correct the horizontal aim use the adjusting screw located on the outer side of the headlamps.
- To correct the vertical aim by use the adjusting screw located in the top center of the headlamps.
- Use a specific aiming area in a darkened location. Ensure that the aiming area meets the followings:
 - The area used must accommodate the vehicle with a space of 7.6 m (25 ft) left over.
 - Measure the additional 7.6 m (25 ft) from the face of the headlamps to the front of the screen.
 - The floor that the vehicle rests on is level with the bottom of the screen.
 - If the floor is not level, then compensate for the unlevel floor.
- Ensure that the aiming screen meets the following:
 - The screen (2) is 1.5 m (5 ft) high and 3.6 m (12 ft) wide.
 - The surface of the screen (2) is a matte white.
 - The screen (2) is well shaded from outside light.
 - The screen (2) is correctly adjusted to the floor on which the vehicle stands.
 - The following items are present:
 - A vertical center line (2)
 - A horizontal center line (4) for the center line of the lamps
 - A horizontally adjustable horizontal tape (3)
 - 2 laterally adjustable vertical tapes (9)

Important: Adjust the horizontal lines or tape (3) on the screen (2) for each vehicle that you inspect. Vehicles of the same model and year may have different standing height for the headlamps.

- Make provisions for moving the aiming screen in order to align the aiming screen parallel with the rear axle of the vehicle.
 - This will allow for a horizontal line (4) drawn to pass through the center point between the two headlamp capsules.
 - The horizontal line (4) will be drawn perpendicular from the center line of the screen (2).
- Once you set up the screen (2) in a permanent location, paint a reference line (7) on the floor. The reference line (7) will identify the proper location of the headlamps when the headlamps are being aimed.



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- If a regular commercial aiming screen is not available, the screen may consist of the following items:
 - A vertical wall that has a clear, uninterrupted area. Ensure that the area is 1.8 m (6 ft) high and 3.6 m (12 ft) wide
 - Ensure that the area is finished with a washable, nongloss white paint.

Vehicle Preparation

Prepare the vehicle for inspecting the headlamp beam aim.

1. Perform the following to ensure an accurate headlamp aim.
 - 1.1. Completely assemble all of the components on the vehicle.
 - 1.2. Ensure that the fuel load is $\frac{1}{2}$ tank or less.
 - 1.3. Ensure that the only other load in the vehicle is the driver.
 - 1.4. Mark the center of the front and rear windows with narrow tape. Use these sights to locate the center of the vehicle.
 - 1.5. Do this by moving the vehicle or the screen until the center line (2) of the screen comes into alignment with the two points.
 - 1.6. Close the doors.
 - 1.7. Rock the vehicle sideways in order to stabilize the suspension.
2. Position the vehicle so that the vehicle is square with the aiming screen.
3. Position the headlamps directly over the reference line (7) that you painted on the floor.
4. Locate the vertical line (4) on the aiming screen so that the vertical lines meets the following criteria:
 - The vertical line is aligned with the center of the rear window.
 - The vertical line is over the hood.

Domestic Low Beam

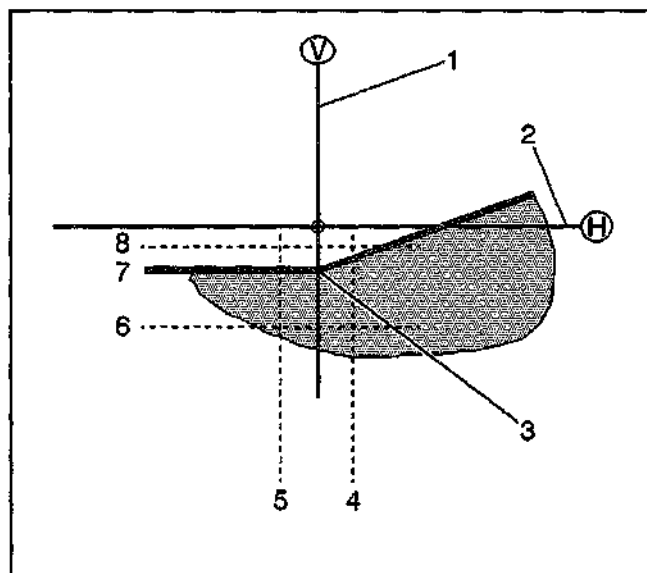
Check the following for the low beam headlamps.

1. With the low beams on, observe the beam's high intensity zone on the screen.
2. To adjust the headlamp aim perform the following:
 - For the horizontal aim the left edge of the high intensity zone should be on the vertical axis (1), or within +102 mm (+4.0 in) (3), or (4) -102 mm (-4.0 in) of the vertical axis (1).
 - For the vertical aim the top edge of the high intensity zone should be on the horizontal axis (2), or within -63.5 mm (-2.5 in) (5), or +51 mm (+2.0 in) (6) of the horizontal axis (2).
3. If the above specifications are not met adjust the headlamps accordingly.

European Low Beam (Right Hand Rule of Road) (Export Only)

Check the following for the European low beam headlamps.

1. With the low beams on, observe the beam's high intensity zone on the screen.
2. To adjust the headlamp aim perform the following:
 - For the horizontal aim the center beam's break point (3) should be on the vertical axis (1), or within -38.1 mm (-1.5 in) (5) or 38.1 mm (1.5 in) (4) of the vertical axis (1).
 - For the vertical aim set the beam's break point (3) at -92.25 mm (-3.75 in) (7) below the horizontal axis (2), or within -57.15 mm (-2.25 in) (8) or -171.45 mm (-6.75 in) (6) below the horizontal axis (2).
3. If the above specifications are not met adjust the headlamps accordingly.

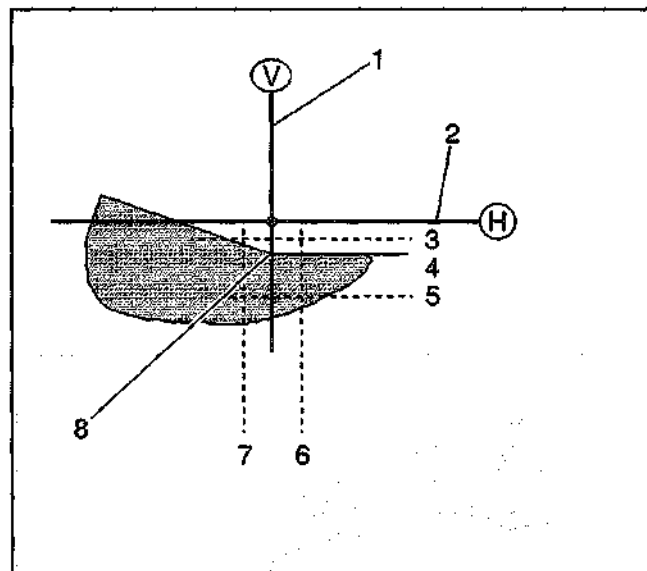


379384

United Kingdom (UK) and Japanese Low Beam (Left Hand Rule of Road) (Export Only)

Check the following for the UK and Japanese low beam headlamps.

1. With the low beams on, observe the beam's high intensity zone on the screen.
2. To adjust the headlamp aim perform the following:
 - For the horizontal aim the center beam's break point (8) should be on the vertical axis (1), or within $+38.1 \text{ mm}$ ($+1.5 \text{ in}$) (6) or -38.1 mm (-1.5 in) (7) of the vertical axis (1).
 - For the vertical aim set the beam's break point (3) at -92.25 mm (-3.75 in) (4) below the horizontal axis (2), or within -57.15 mm (-2.25 in) (3) or -171.45 mm (-6.75 in) (5) below the horizontal axis (2).
3. If the above specifications are not met adjust the headlamps accordingly.



379385

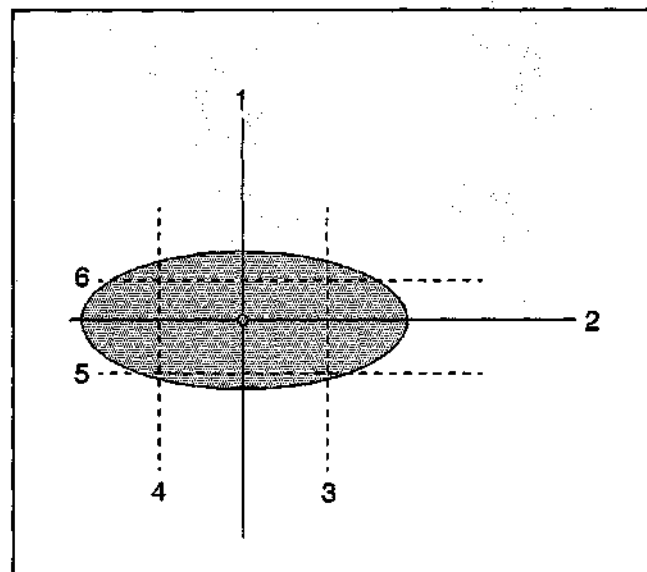
Domestic and Export High Beam

Check the following specifications for the high beam headlamps.

1. With the headlamps on high beam, observe the center of the high intensity zone on the screen.

Important: With composite headlamps (Chevrolet) it may not be necessary to aim the high beam lamps, the low beam adjustment may have taken care of the high beams.

2. To adjust the headlamp aim perform the following:
 - For the horizontal aim the center beam's high intensity zone should be on the vertical axis (1), or within $+102 \text{ mm}$ ($+4.0 \text{ in}$) (3), or (-102 mm (-4.0 in) (4) of the vertical axis (1).
 - For the vertical aim the center beam's high intensity zone should be on the horizontal axis (2), or within -63.5 mm (-2.5 in) (5), or $+51 \text{ mm}$ ($+2.0 \text{ in}$) (6) of the horizontal axis (2).



294753

Headlamp Aiming (Alternate Procedure)**Tools Required**

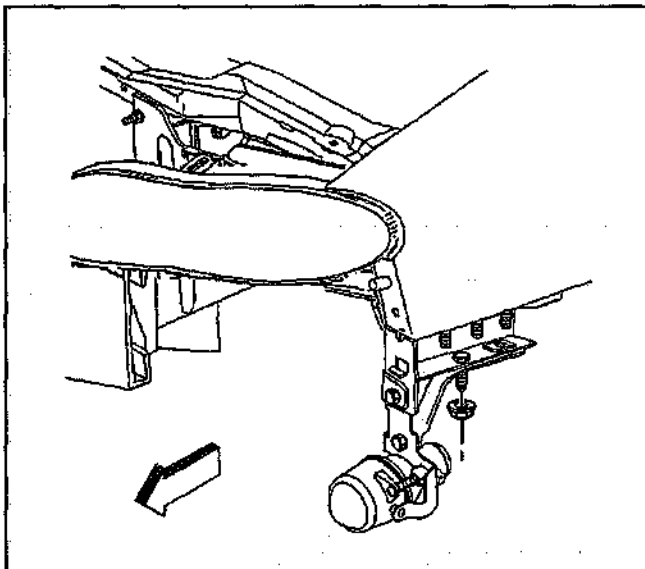
J 25300-E Headlamp Aimer (Mechanical Type), or equivalent

Important: When using headlamp aiming equipment which attaches to the headlamps with a suction cup type devise, DO NOT leave the headlamps on while the equipment is attached. On vehicles with plastic headlamps (body styled composite or sealed beam) having the headlamps illuminated when the equipment is attached, may cause heat build-up combined with the suction cup may cause the plastic headlamp lens to become distorted, requiring lamp replacement.

1. Prepare the vehicle for checking beam aim as follows:
 - Place the vehicle on a flat surface.
 - Remove large amounts of mud or ice from the underside of the fenders, if necessary.
 - Check whether tires are noticeably deflated and inflate if necessary.
 - Ensure there is no load in the vehicle other than the driver.
 - Rock the vehicle sideways to stabilize the suspension.
 - Clean the headlamp lenses and aiming pads.
2. Refer to the manufacture's instruction for the correct operation of the headlamp aiming equipment.

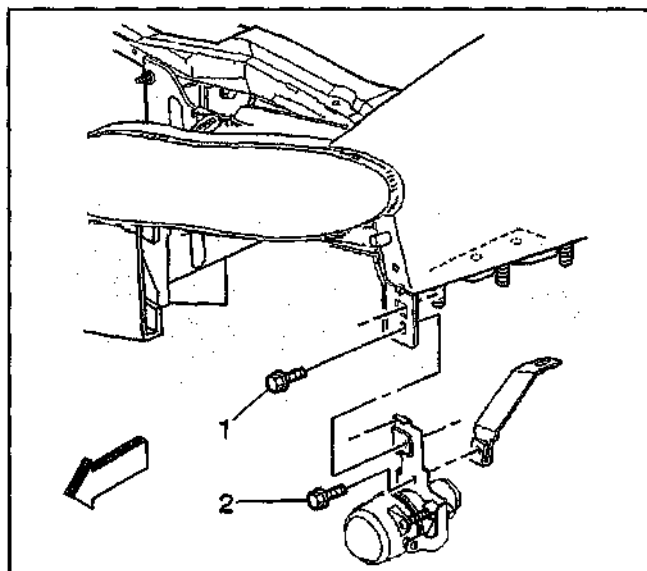
Fog Lamp Replacement - Front (Chevrolet)**Removal Procedure**

1. Remove the headlamp. Refer to *Headlamp Replacement (Chevrolet)*.
2. Loosen the front fender front reinforcement nut, if necessary.
3. Disconnect the electrical connector and bulb from the lamp socket.



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4. Remove the fog lamp to headlamp bracket bolt (1).
5. Remove the fog lamp to fog lamp bracket bolt (2).
6. Remove the fog lamp from the vehicle.



295047

Installation Procedure

1. Install the fog lamp to the vehicle.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the fog lamp to fog lamp bracket bolt (2).

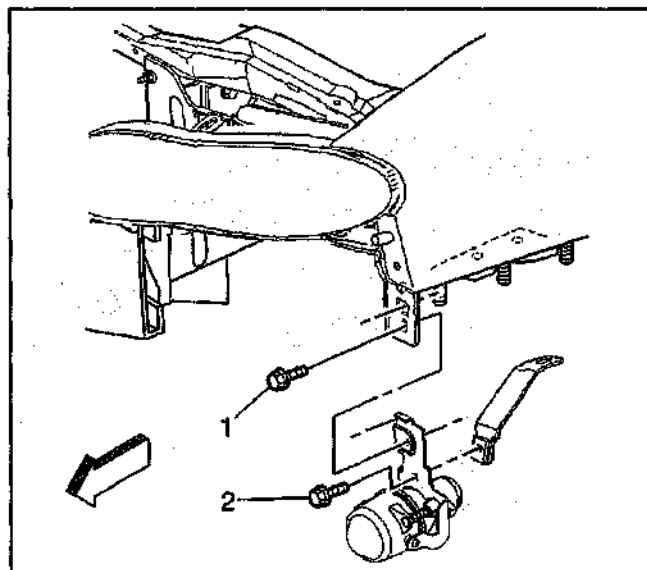
Tighten

Tighten the fog lamp to fog lamp bracket bolt (2) to 10 N·m (89 lb in).

3. Install the fog lamp to headlamp bracket bolt (1).

Tighten

Tighten the fog lamp to headlamp bracket bolt (1) to 10 N·m (89 lb in).



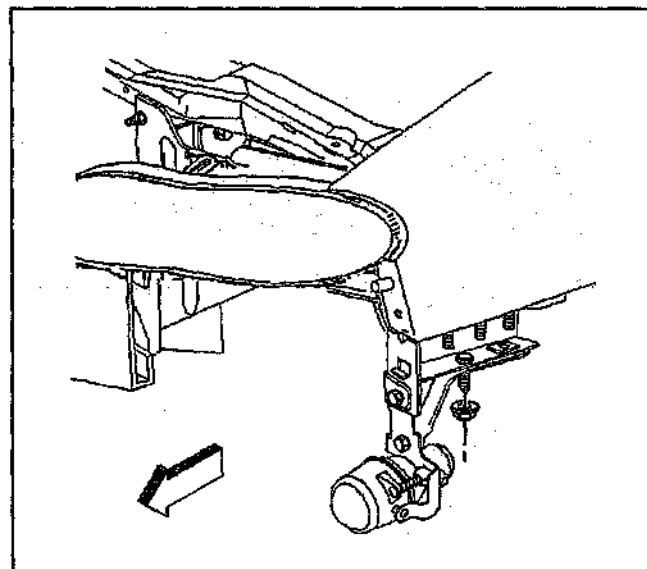
295047

4. Connect the electrical connector and the bulb to the lamp socket.
5. Tighten the front fender front reinforcement nut, if necessary.

Tighten

Tighten the front fender front reinforcement nut to 10 N·m (89 lb in).

6. Install the headlamp. Refer to *Headlamp Replacement (Chevrolet)*.

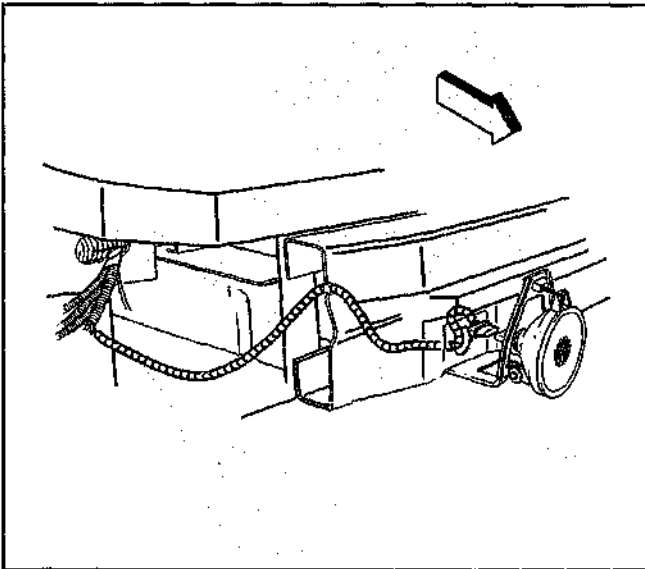


379382

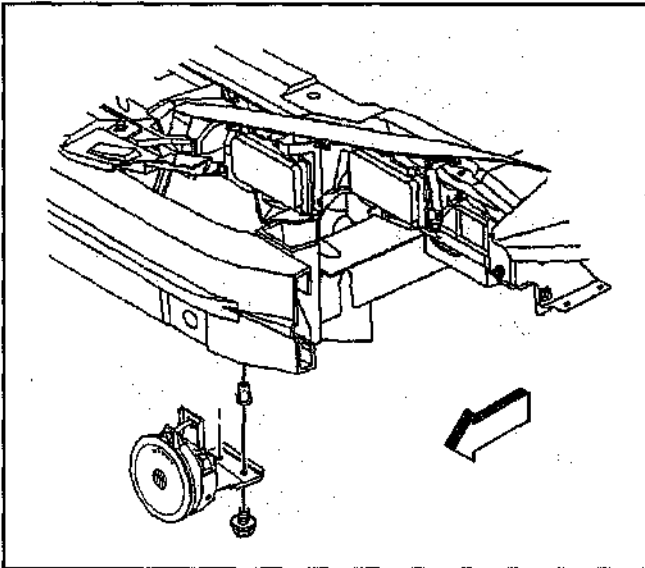
Fog Lamp Replacement - Front (Pontiac Trans Am)

Removal Procedure

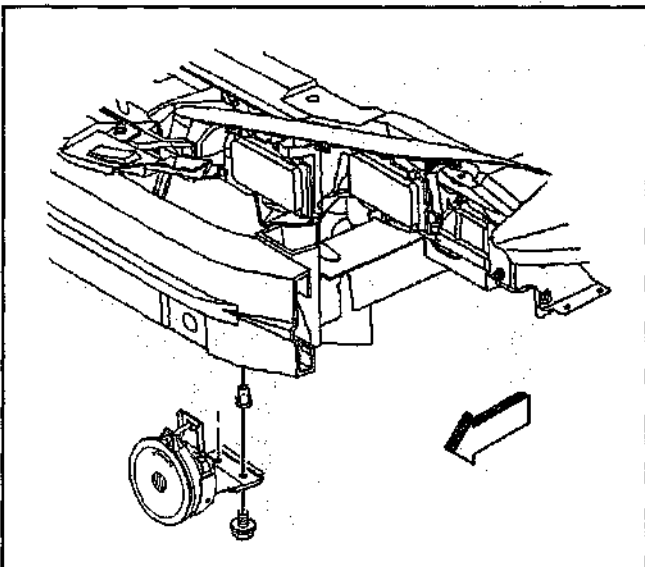
1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. Remove the push pin retainers that are located at the bottom center of the front fascia.
3. Disconnect the electrical connector from the fog lamp.



294718



294719



294719

4. Remove the fog lamp bolts.
5. Remove the fog lamp and bracket.

Installation Procedure

1. Install the fog lamp and bracket.

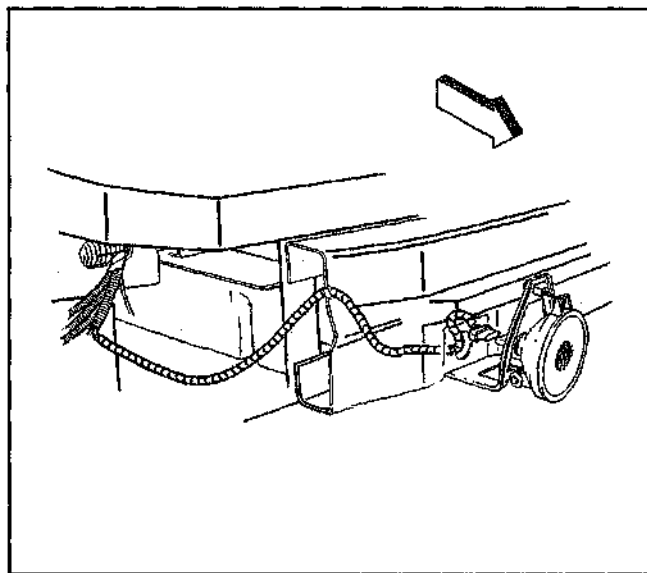
Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the fog lamp bolts.

Tighten

Tighten the fog lamp bolt to 15 N·m (11 lb ft).

3. Connect the electrical connector to the fog lamp.
4. Install the push pin retainers at the bottom center of the front fascia.
5. Lower the vehicle.

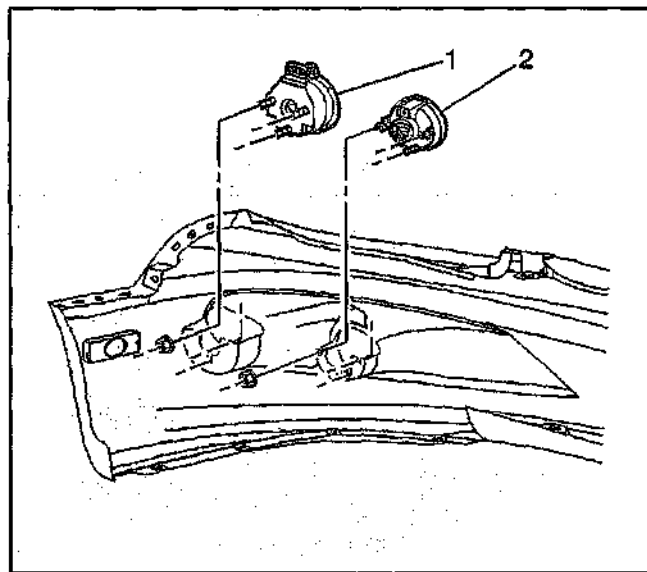


294718

Fog Lamp Replacement - Front (Pontiac Firebird/Formula)

Removal Procedure

1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. Open the access door in the front bumper air deflector.
3. Disconnect the fog lamp electrical connector from the socket.
4. Remove the fog lamp nuts.
5. Remove the fog lamp (1).



294763

Installation Procedure

1. Install the fog lamp (1).

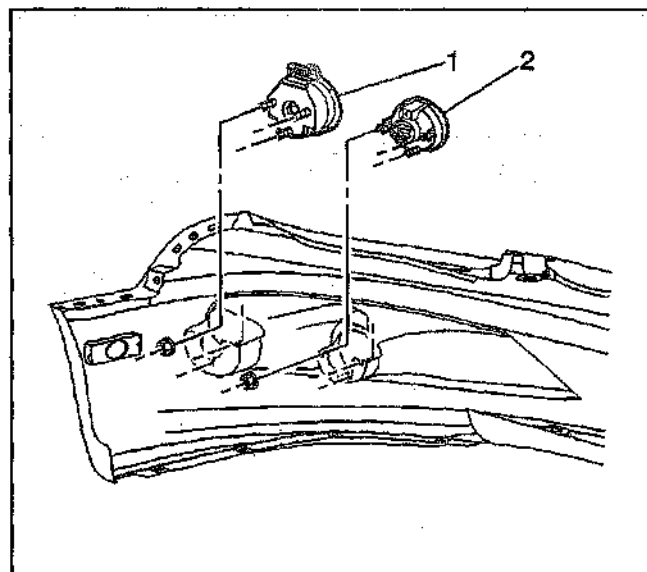
Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the fog lamp nuts.

Tighten

Tighten the fog lamp (1) nuts to 8.0 N·m (71 lb in).

3. Connect the fog lamp electrical connector to the socket.
4. Close the access door in the front bumper air deflector.
5. Lower the vehicle.



294763

Fog Lamp Bulb Replacement - Front**Removal Procedure**

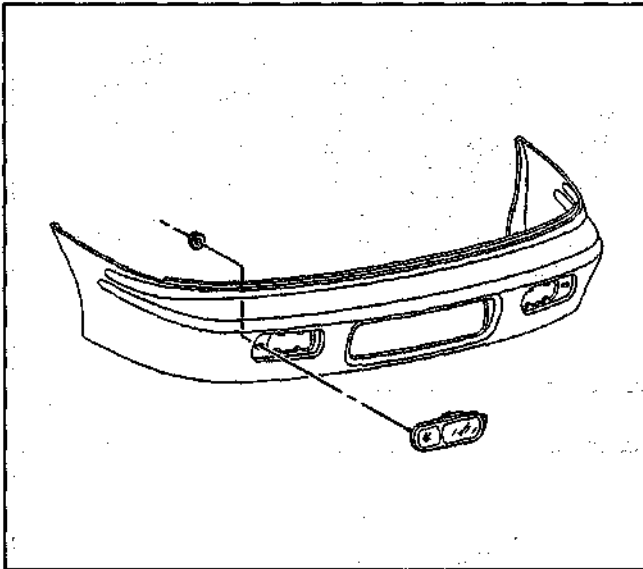
1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. On Camaro and Firebird vehicles, open the access door in the front bumper air deflector.
3. On Trans Am vehicles, remove the push pin retainers which are located at the bottom center of the front fascia.
4. Disconnect the electrical connector from the fog lamp.
5. Remove the fog lamp bulb from the electrical connector.

Installation Procedure

1. Install the fog lamp bulb to the electrical connector.
2. Connect the electrical connector to the fog lamp.
3. On Trans Am vehicles, install the push pin retainers to the bottom center of the front fascia.
4. On Camaro and Firebird vehicles, close the access door in the front bumper air deflector.
5. Lower the vehicle.

Fog Lamp Replacement - Rear (Export)**Removal Procedure**

1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. Disconnect the rear fog lamp electrical connector (1).
3. Remove the rear fog lamp self threading nuts.
4. Remove the rear fog lamp from the rear fascia.



379381

Installation Procedure

1. Install the rear fog lamp to the rear fascia.

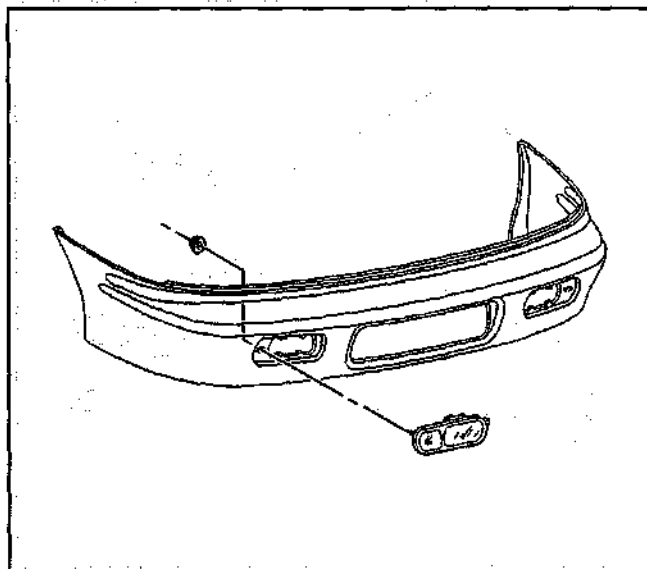
Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the rear fog lamp self threading nuts.

Tighten

Tighten the rear fog lamp self threading nuts to 1.4 N-m (12 lb in).

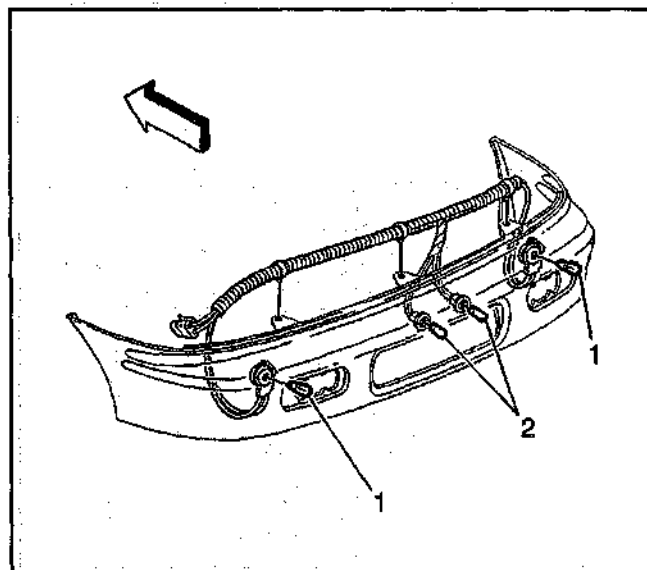
3. Connect the rear fog lamp electrical connector.
4. Lower the vehicle.



379381

Fog Lamp Bulb Replacement - Rear (Export)**Removal Procedure**

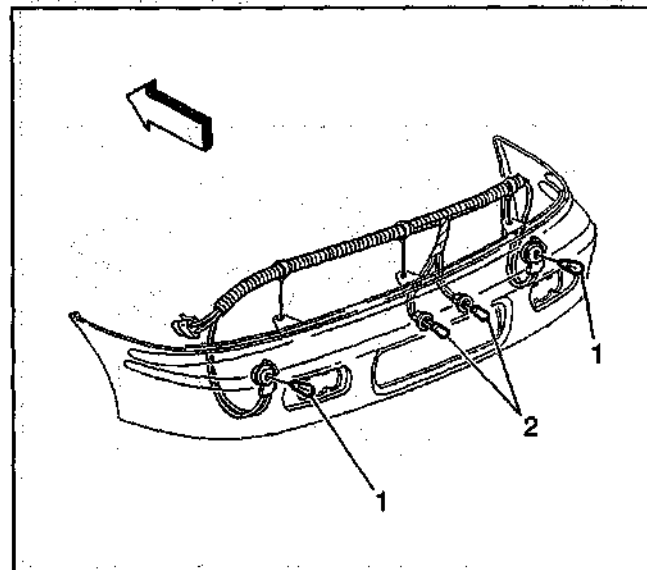
1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. Disconnect the rear fog lamp electrical connector.
3. Remove the rear fog lamp bulb (1) from the harness socket.



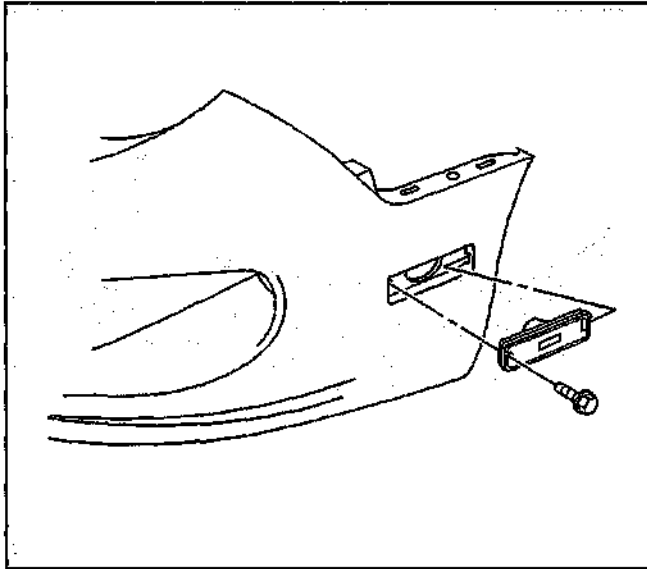
379383

Installation Procedure

1. Install the rear fog lamp bulb (1) to the harness socket.
2. Connect the rear fog lamp electrical connector.
3. Lower the vehicle.



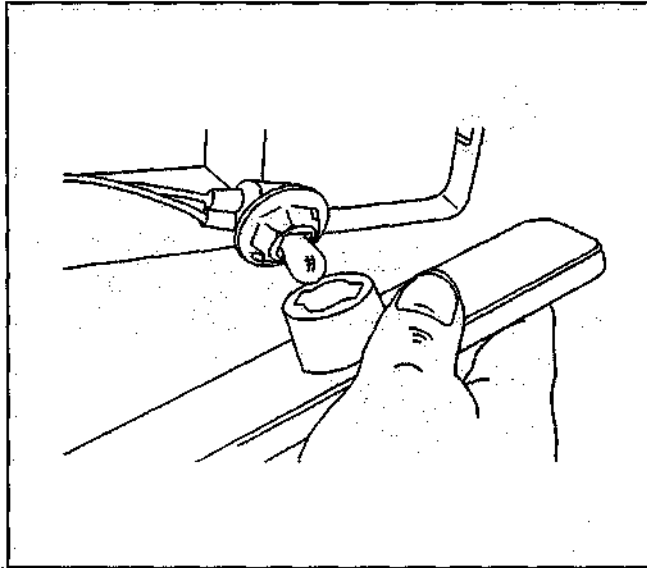
379383



366724

Marker Lamp Replacement - Side**Removal Procedure**

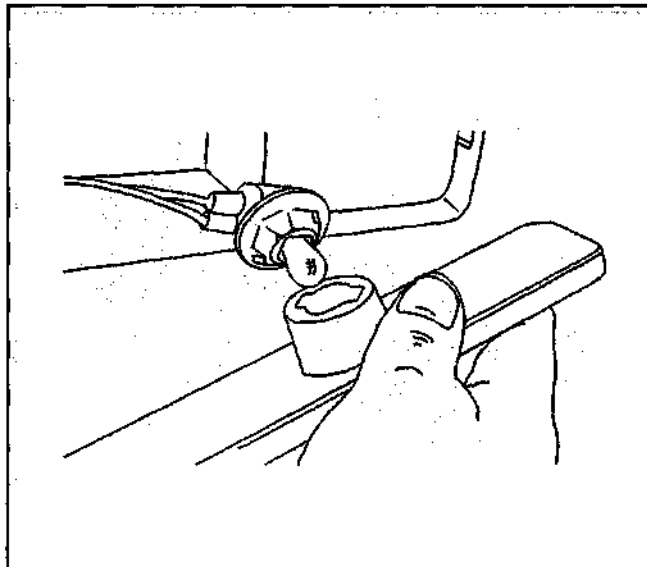
1. Remove the sidemarker lamp screw from the front fascia.



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2. Disconnect the electrical connector from the sidemarker lamp.

3. Remove the side marker lamp.



402703

Installation Procedure

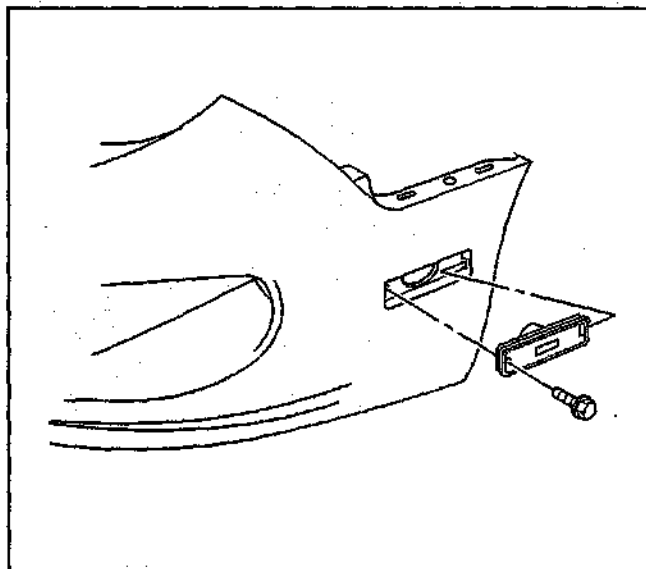
1. Connect the electrical connector and bulb to the sidemarker lamp.
2. Install the side marker lamp.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

3. Install the sidemarker lamp screw to the front fascia.

Tighten

Tighten the sidemarker lamp screw to 1.4 N·m (12 lb in).

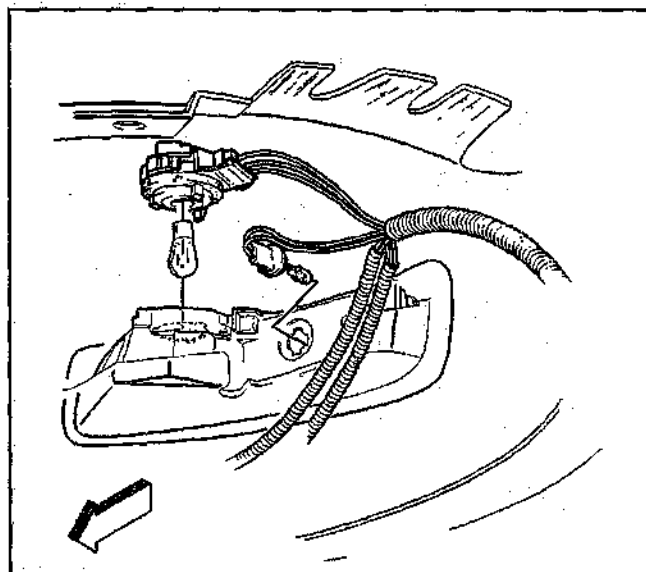


366724

Park/Turn Signal Lamp Replacement (Chevrolet)

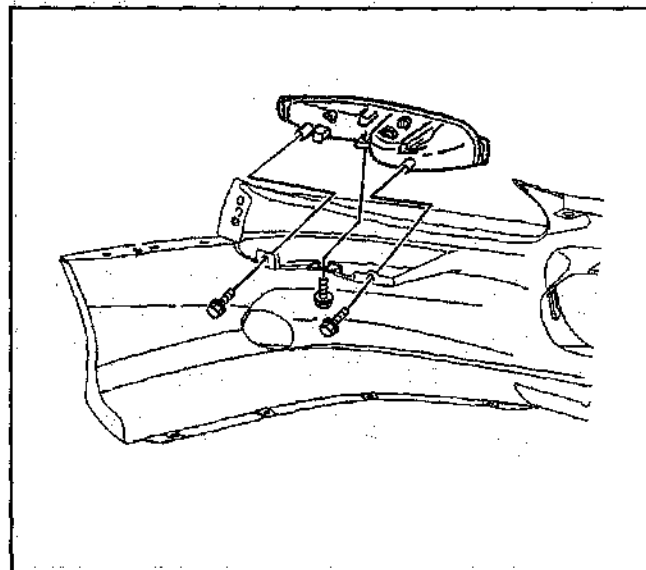
Removal Procedure

1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. Open the access door in the front bumper air deflector.
3. Disconnect the following connectors from the sockets:
 - The sidemarker lamp
 - The park and turn signal lamp

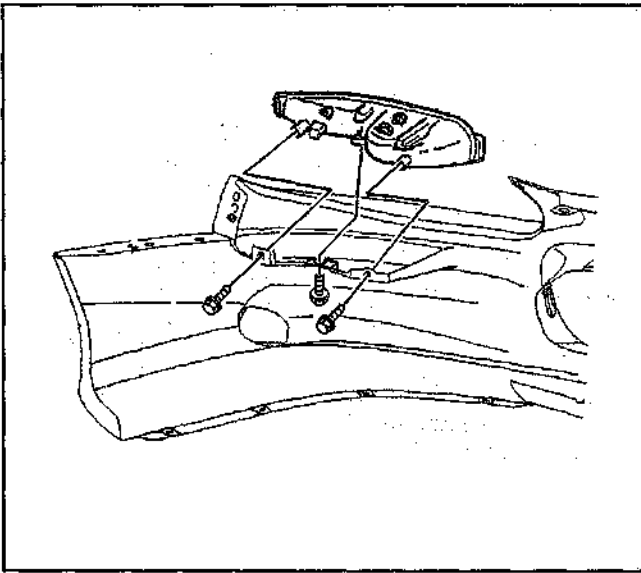


294760

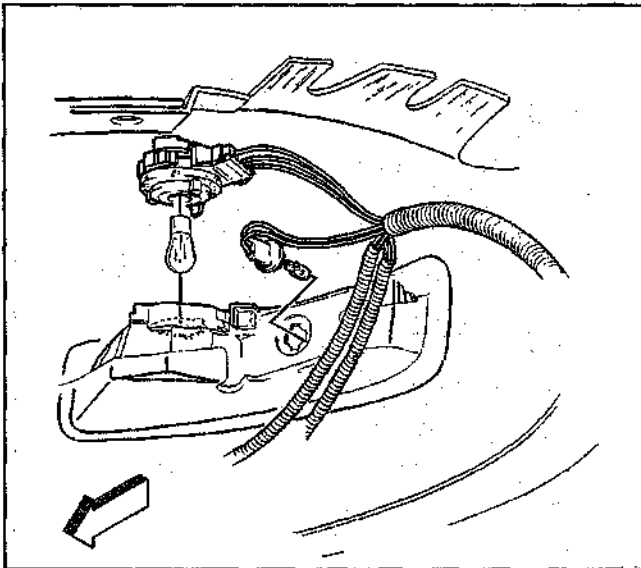
4. Remove the park and turn signal lamp bolts.
5. Remove the park and turn signal lamp from the front bumper fascia.



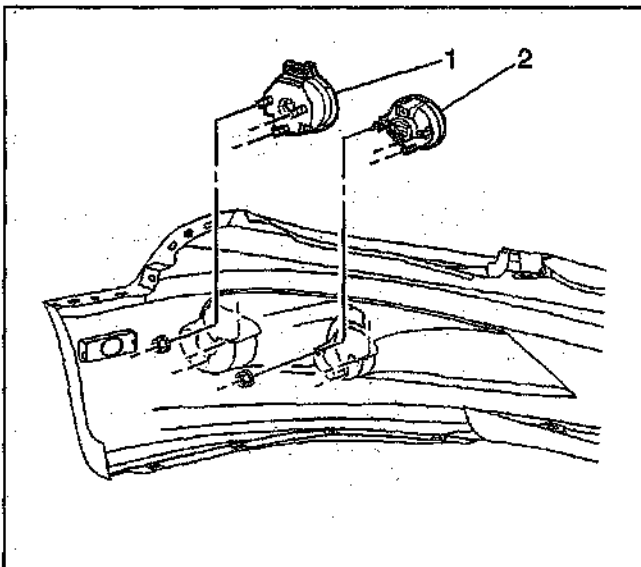
294761



294761



294760



294763

Installation Procedure

1. Install the park and turn signal lamp to the front bumper fascia.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the park and turn signal lamp bolts.

Tighten

Tighten the park and turn signal lamp bolts to 2.5 N·m (22 lb in).

3. Connect the following connectors to the sockets:
 - The sidemarker lamp
 - The park and turn signal lamp
4. Close the access door in the front bumper air deflector.
5. Lower the vehicle.

Park/Turn Signal Lamp Replacement (Pontiac Firebird)**Removal Procedure**

1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. Open the access door in the front bumper air deflector.
3. Disconnect the electrical connector from the park and turn signal lamp.
4. Remove the park and turn signal lamp nuts.
5. Remove the park and turn signal lamp (2) from the fascia.

Installation Procedure

1. Install the park and turn signal lamp (2) to the fascia.

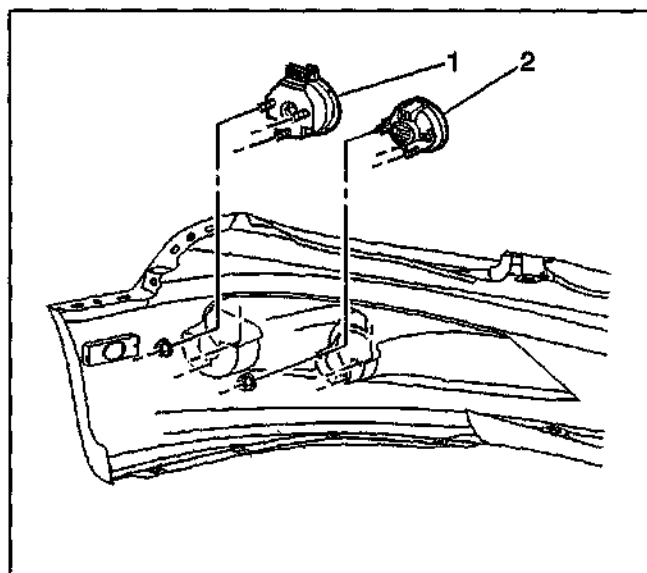
Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the park and turn signal lamp bolts.

Tighten

Tighten the park and turn signal lamp nuts to 4 N·m (35 lb in).

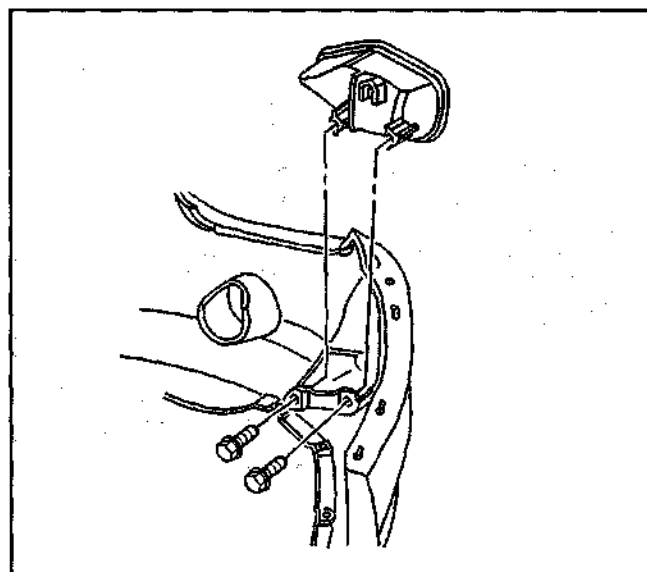
3. Connect the electrical connector to the park and turn signal lamp.
4. Close the access door in the front bumper air deflector.
5. Lower the vehicle.



294763

Park/Turn Signal Lamp Replacement (Pontiac Trans Am)**Removal Procedure**

1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. Open the access door in the front bumper air deflector.
3. Disconnect the electrical connector from the park and turn signal lamp.
4. Remove the park and turn signal lamp bolts.
5. Remove the park and turn signal lamp from the fascia.



366720

Installation Procedure

1. Install the park and turn signal lamp to the fascia.

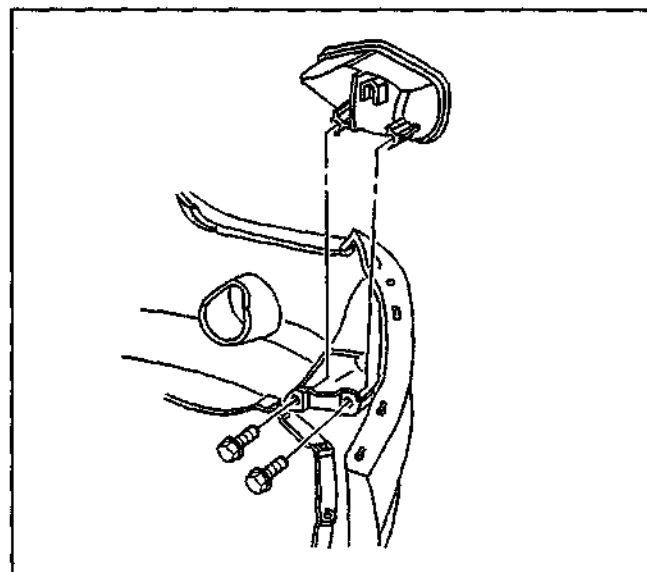
Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the park and turn signal lamp bolts.

Tighten

Tighten the park and turn signal lamp bolts to 2.5 N·m (22 lb in).

3. Connect the electrical connector to the park and turn signal lamp.
4. Close the access door in the front bumper air deflector.
5. Lower the vehicle.



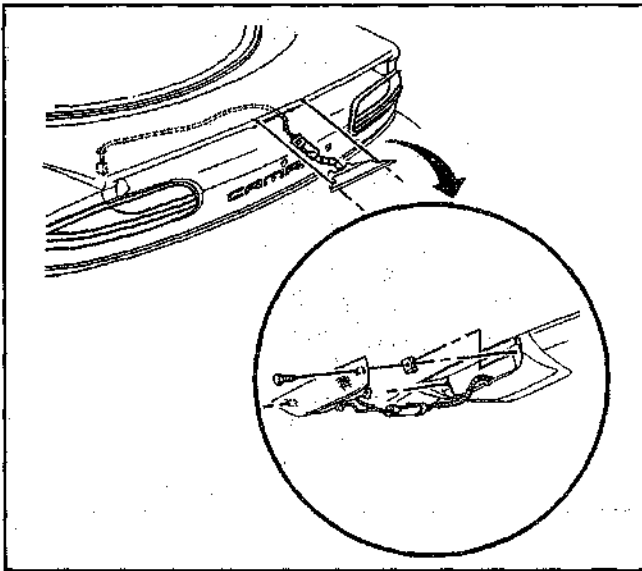
366720

Park/Turn Signal Lamp Bulb Replacement**Removal Procedure**

1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. Open the access door in the front bumper air deflector.
3. Disconnect the electrical connector from the park and turn signal lamp.
4. Remove the park and turn signal lamp bulb from the socket.

Installation Procedure

1. Install the park and turn signal lamp bulb to the socket.
2. Connect the electrical connector to the park and turn signal lamp.
3. Close the access door in the front bumper air deflector.
4. Lower the vehicle.

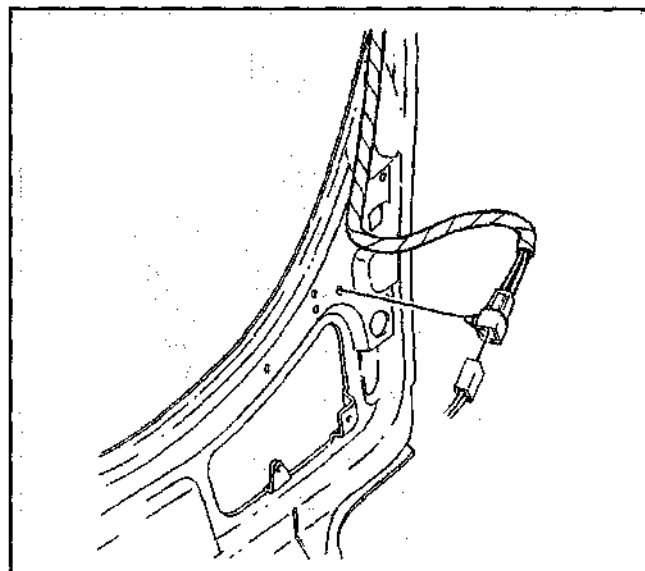


294755

High Mounted Stoplamp Replacement (Chevrolet)**Removal Procedure**

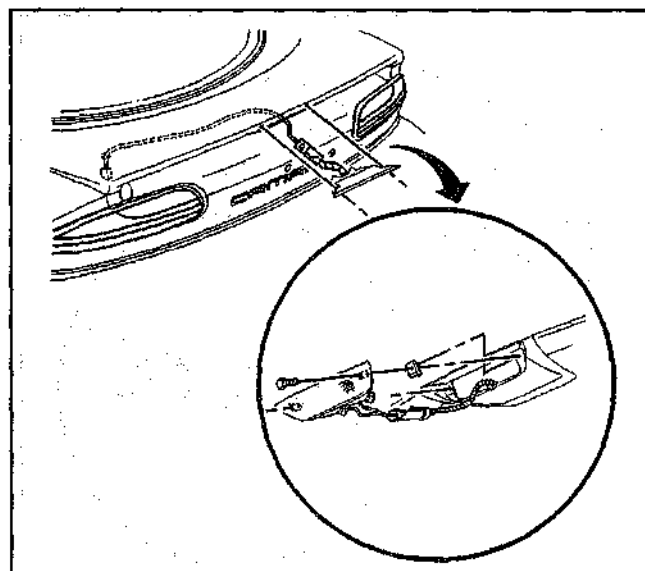
1. Remove the high mount stoplamp screws.
2. Remove the liftgate window trim panel. Refer to *Trim Panel Replacement - Liftgate* in Body Rear End.

3. Disconnect the high mount stoplamp connector from the electrical harness.



294758

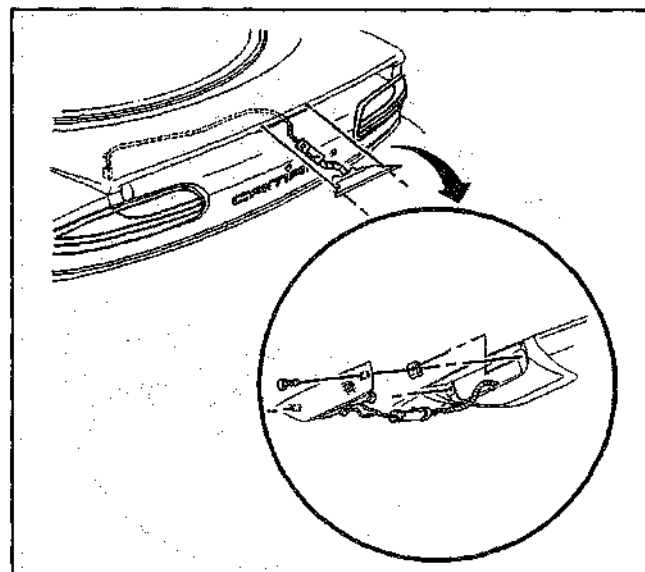
4. Remove the high mount stoplamp from the rear end spoiler.



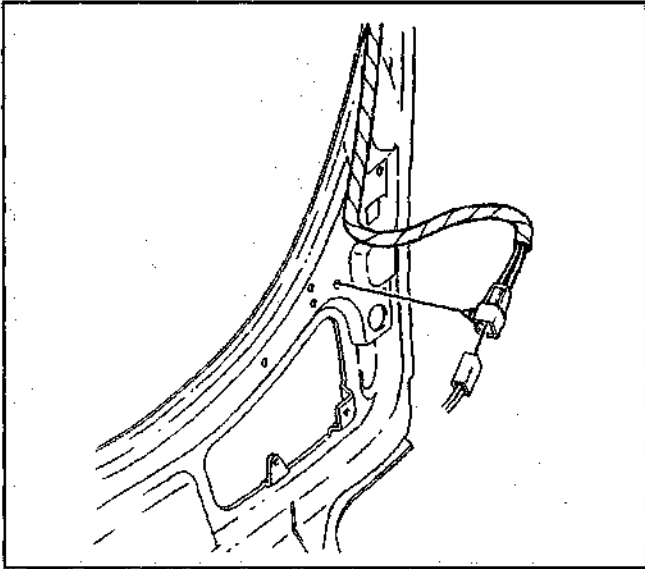
294755

Installation Procedure

1. Install the high mount stoplamp to the rear end spoiler.



294755



294758

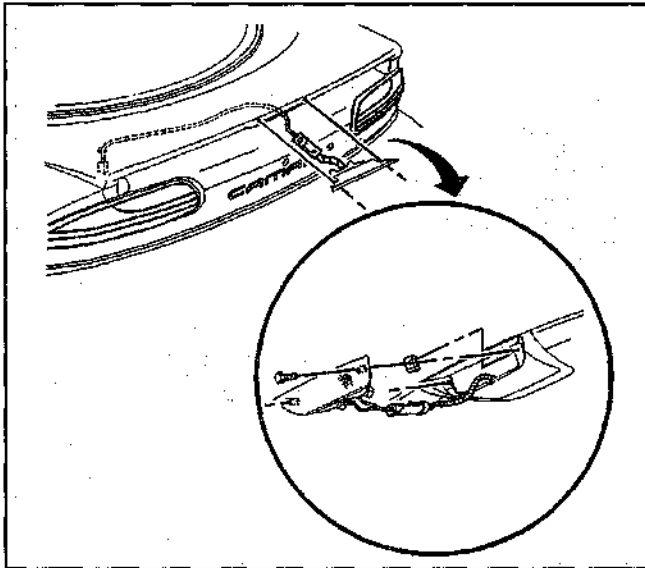
2. Connect the high mount stoplamp connector to the electrical harness.
3. Install the liftgate window finishing lace. Refer to *Trim Panel Replacement - Liftgate* in Body Rear End.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

4. Install the high mount stoplamp screws.

Tighten

Tighten the high mount stoplamp screws to 1.7 N-m (15 lb in).

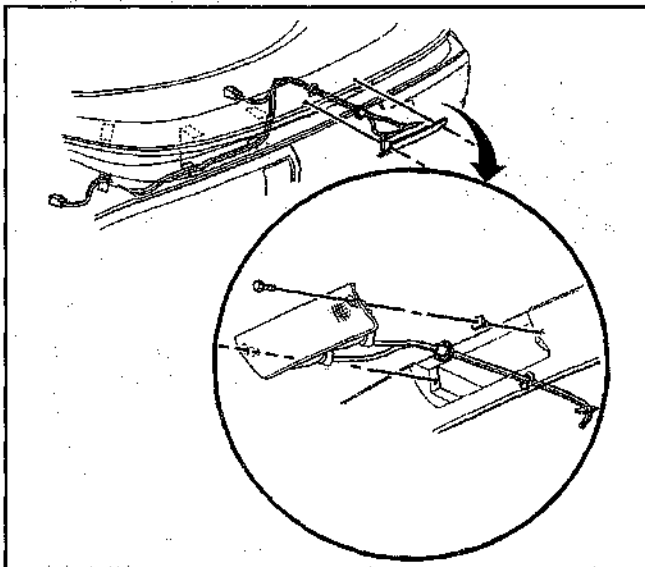


294755

High Mounted Stoplamp Replacement (Pontiac)

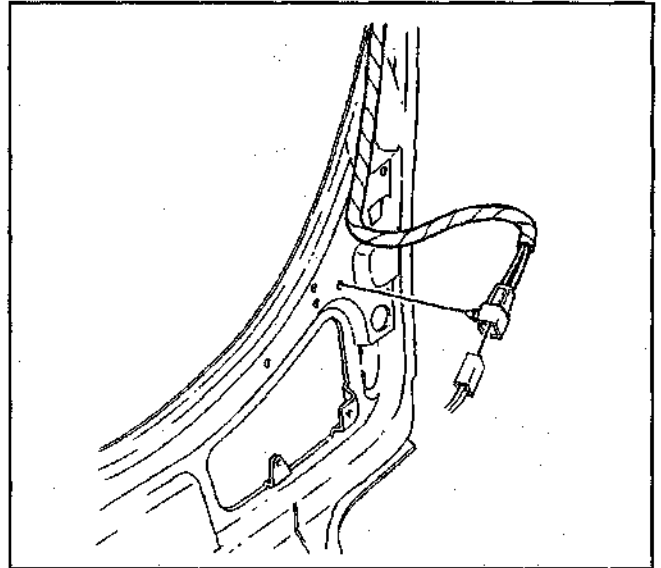
Removal Procedure

1. Remove the high mount stoplamp screws.
2. Remove the liftgate window finishing lace. Refer to *Trim Panel Replacement - Liftgate* in Body Rear End.



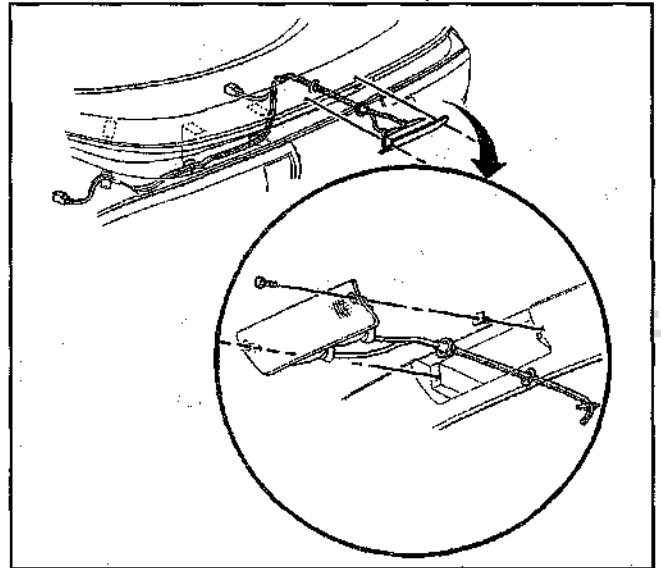
294756

3. Disconnect the high mount stoplamp connector from the electrical harness.



294758

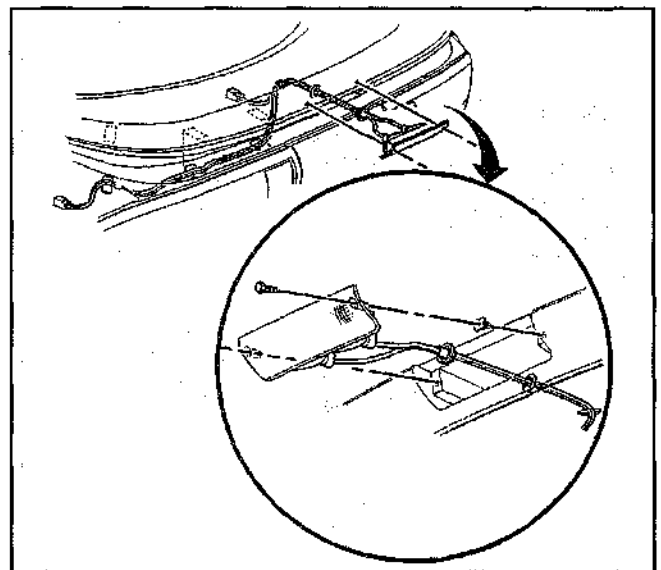
4. Remove the high mount stoplamp from the rear end spoiler.



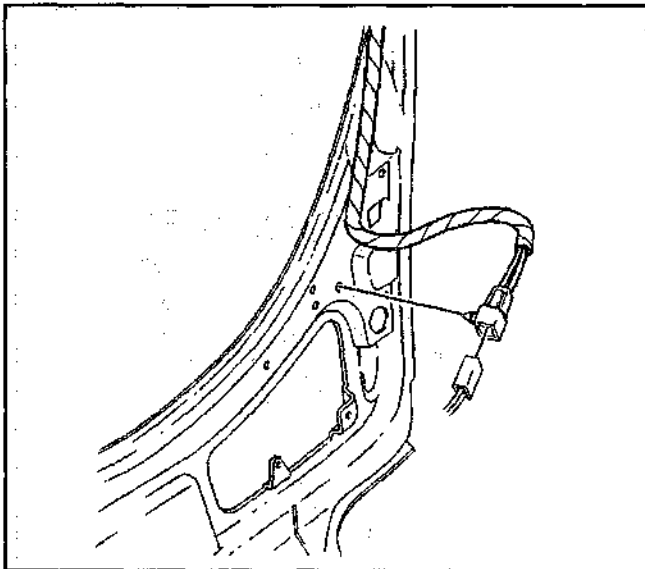
294756

Installation Procedure

1. Install the high mount stoplamp to the rear end spoiler.



294756



294758

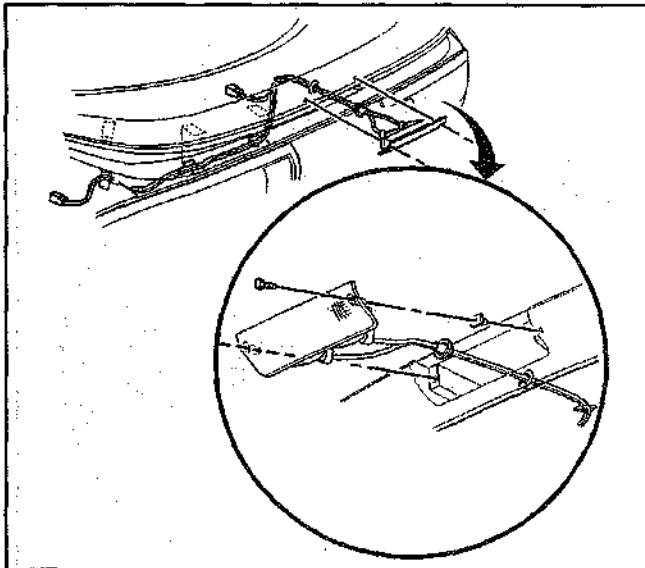
2. Connect the high mount stoplamp connector to the electrical harness.
3. Install the liftgate window finishing lace. Refer to *Trim Panel Replacement - Liftgate in Body Rear End*.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

4. Install the high mount stoplamp screws.

Tighten

Tighten the high mount stoplamp screws to 1.7 N·m (15 lb in).

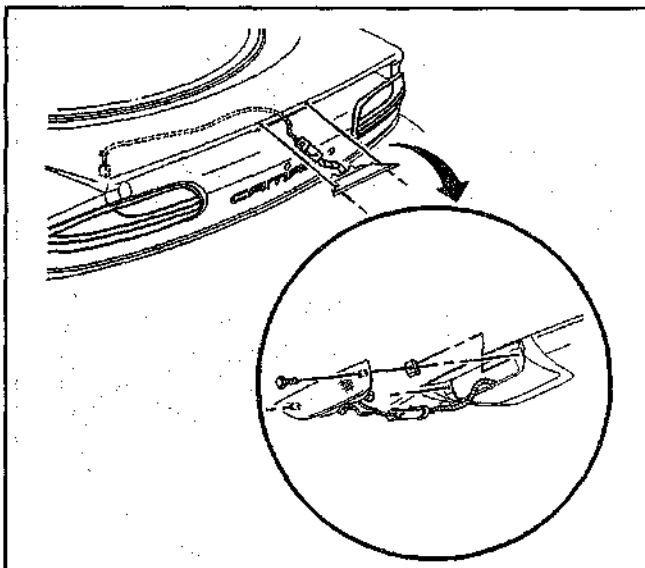


294756

High Mounted Stoplamp Replacement (Chevrolet Convertible)

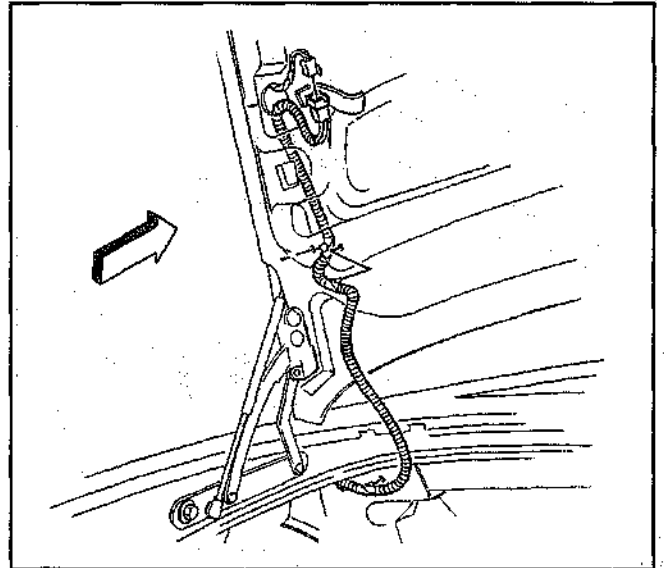
Removal Procedure

1. Remove the high mount stoplamp screws.
2. Open the trunk.
3. Remove the rubber access plug located in the center of the trunk inner.



294755

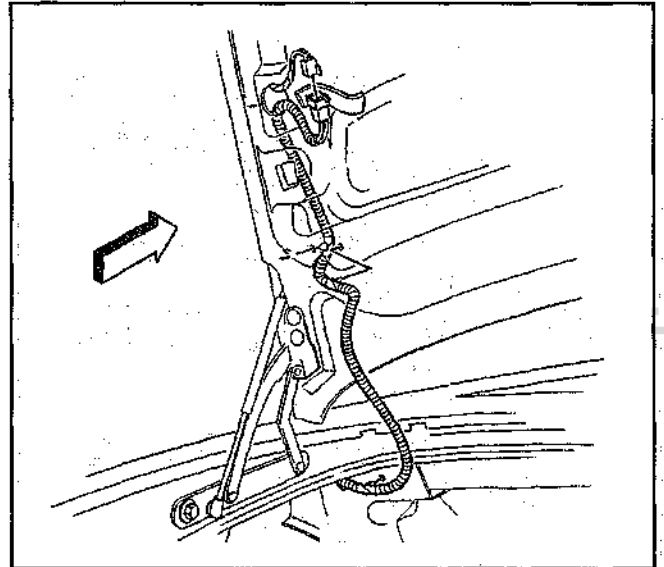
4. Gently pull the wires through the access hole until the connector is reached.
5. Remove the foam tape from the connector.
6. Disconnect the high mount stoplamp electrical connector.
7. Remove the high mount stoplamp.



379376

Installation Procedure

1. Install the high mount stoplamp.
2. Connect the high mount stoplamp electrical connector.
3. Install foam tape around the connector.
4. Push the wires into the access hole.
5. Install the rubber access hole cover.



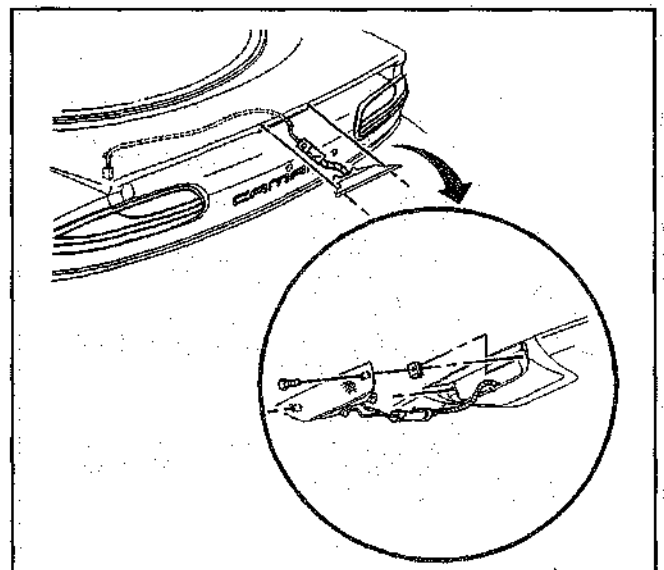
379376

Notice: Refer to *Fastener Notice* in Cautions and Notices.

6. Install the high mount stoplamp screws.

Tighten

Tighten the high mount stoplamp screws to 1.7 N·m (15 lb in).

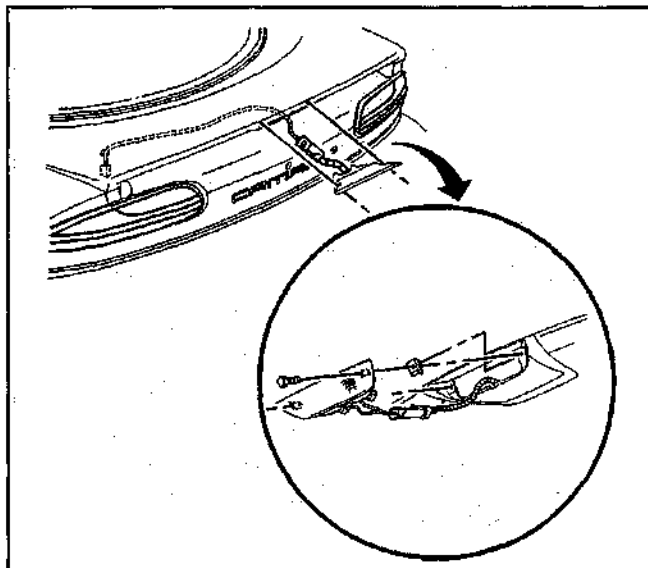


294755

High Mounted Stoplamp Replacement (Pontiac Convertible)

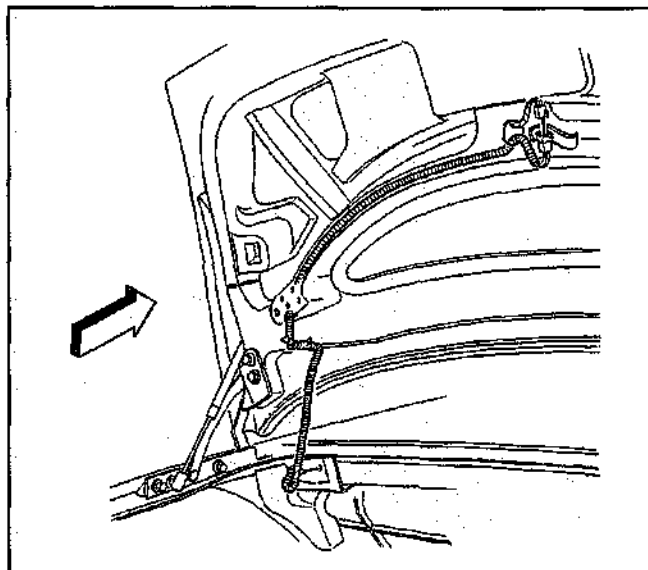
Removal Procedure

1. Remove the high mount stoplamp screws.
2. Open the trunk.
3. Remove the rubber access plug located in the center of the trunk inner.



294755

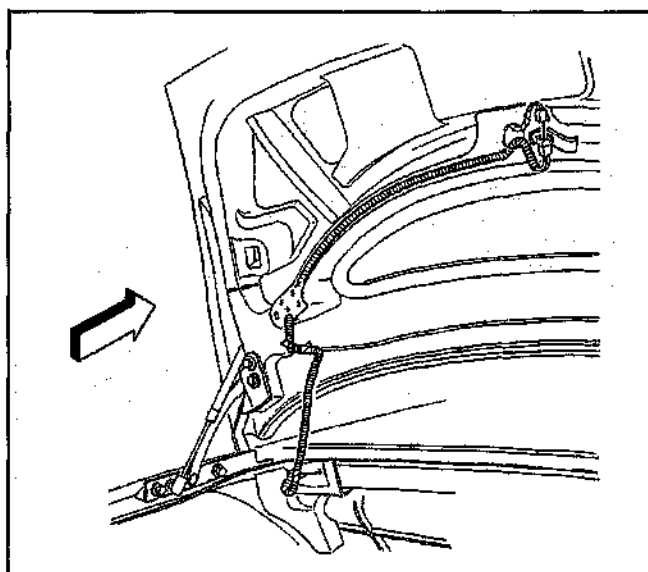
4. Gently pull the wires through the access hole until the connector is reached.
5. Remove the foam tape from the connector.
6. Disconnect the high mount stoplamp electrical connector.
7. Remove the high mount stoplamp.



379375

Installation Procedure

1. Install the high mount stoplamp.
2. Connect the high mount stoplamp electrical connector.
3. Install foam tape around the connector.
4. Push the wires into the access hole.
5. Install the rubber access hole cover.



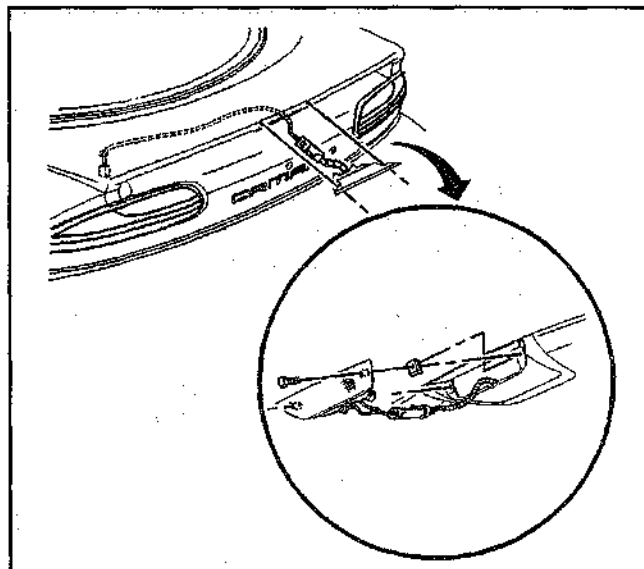
379375

Notice: Refer to *Fastener Notice* in Cautions and Notices.

6. Install the high mount stoplamp screws.

Tighten

Tighten the high mount stoplamp screws to 1.7 N·m (15 lb in).

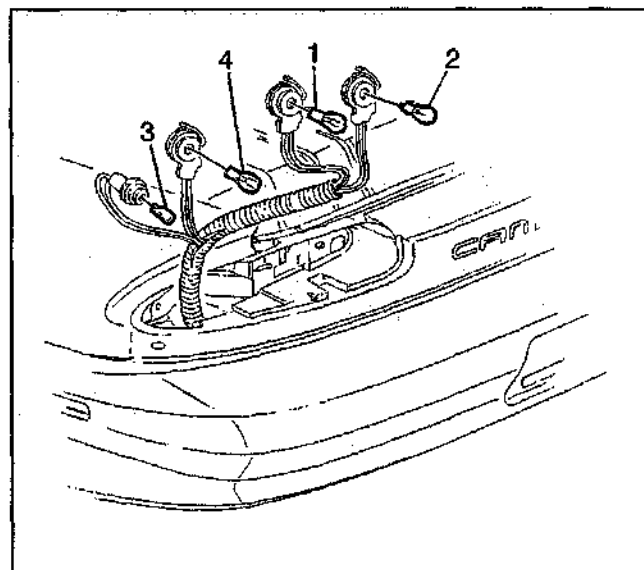


294755

Backup Lamp Bulb Replacement (Chevrolet)

Removal Procedure

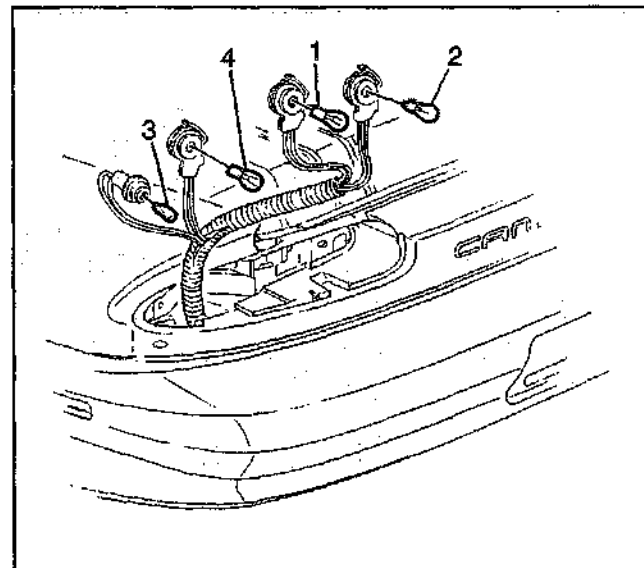
1. Remove the taillamp. Refer to *Tail Lamp Replacement (Chevrolet)*.
2. Remove the backup lamp bulb (2) from the harness socket.



294770

Installation Procedure

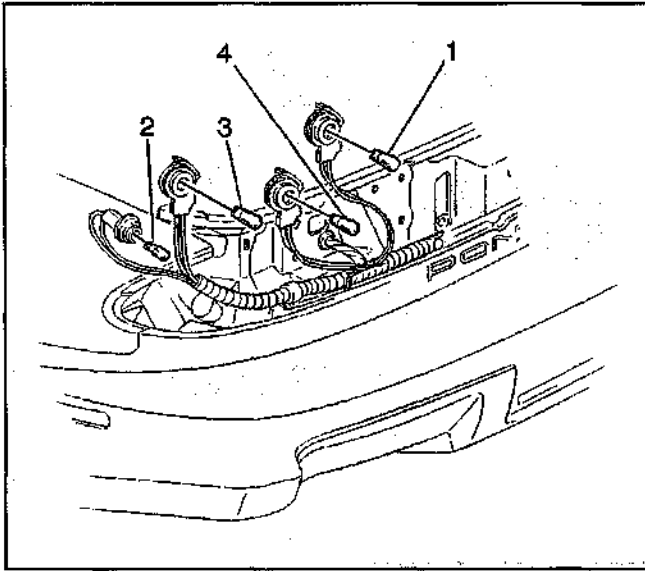
1. Install the backup lamp bulb (2) to the harness socket.
2. Install the taillamp. Refer to *Tail Lamp Replacement (Chevrolet)*.



294770

Backup Lamp Bulb Replacement (Pontiac)**Removal Procedure**

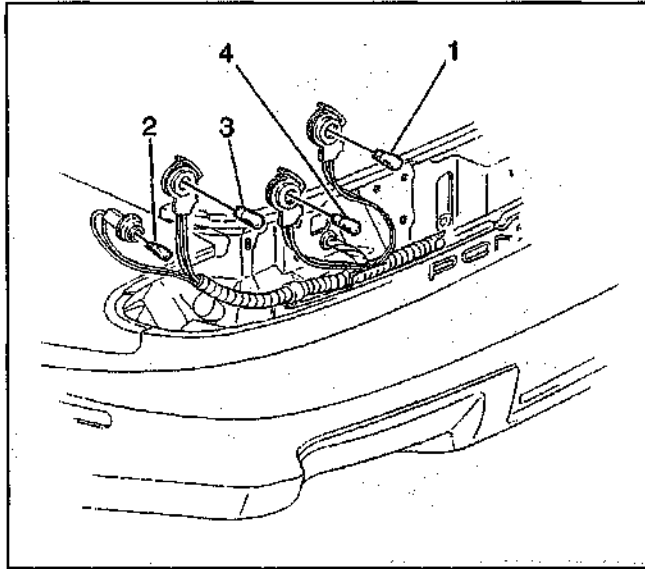
1. Remove the taillamp. Refer to *Tail Lamp Replacement (Pontiac)*.
2. Remove the backup lamp bulb (1) from the harness socket.



294776

Installation Procedure

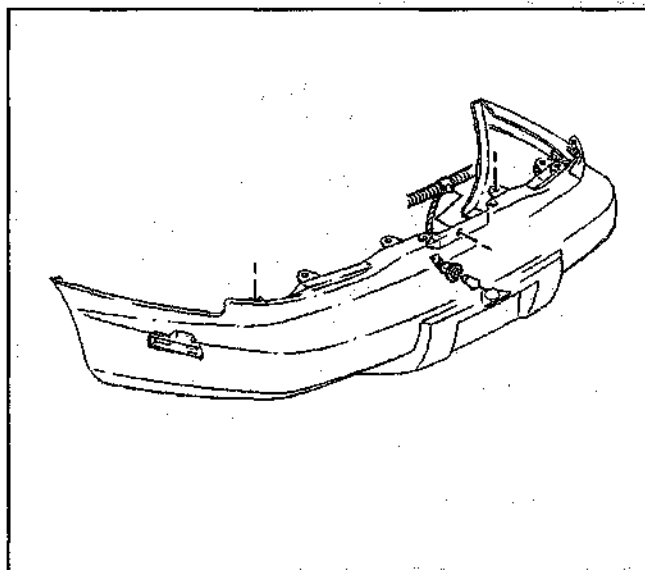
1. Install the backup lamp bulb (1) to the harness socket.
2. Install the taillamp. Refer to *Tail Lamp Replacement (Pontiac)*.



294776

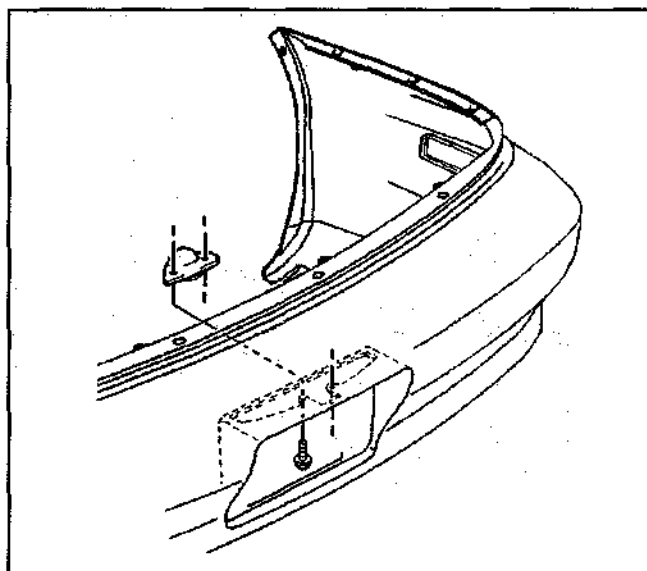
License Lamp Replacement (Domestic)**Removal Procedure**

1. Disconnect the rear license lamp electrical connector.



294785

2. Remove the rear license lamp screws.
3. Remove the rear license lamp from the rear bumper fascia.



294766

Installation Procedure

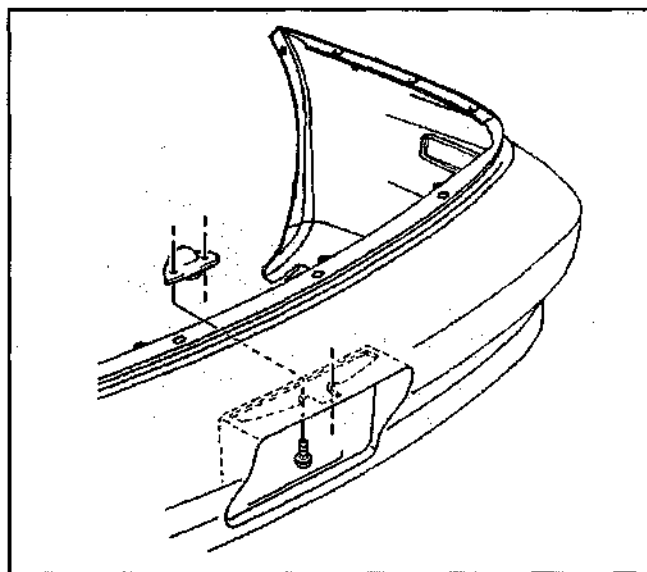
1. Install the rear license lamp to the rear bumper fascia.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the rear license lamp screws.

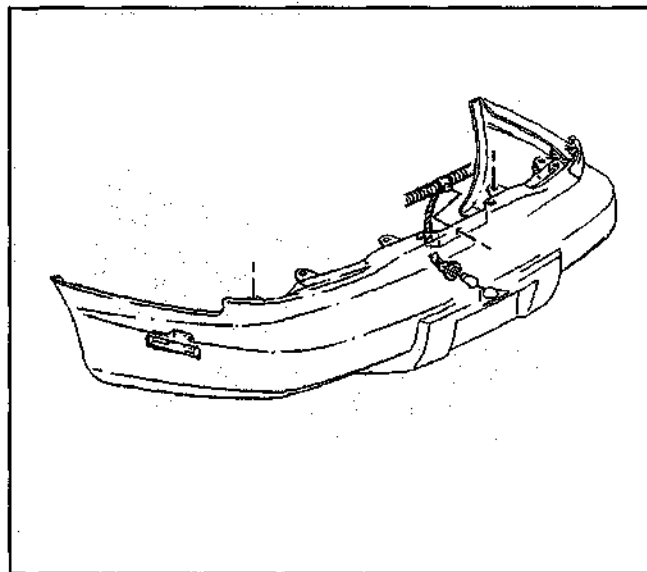
Tighten

Tighten the rear license lamp screws to 1.9 N·m (17 lb in).

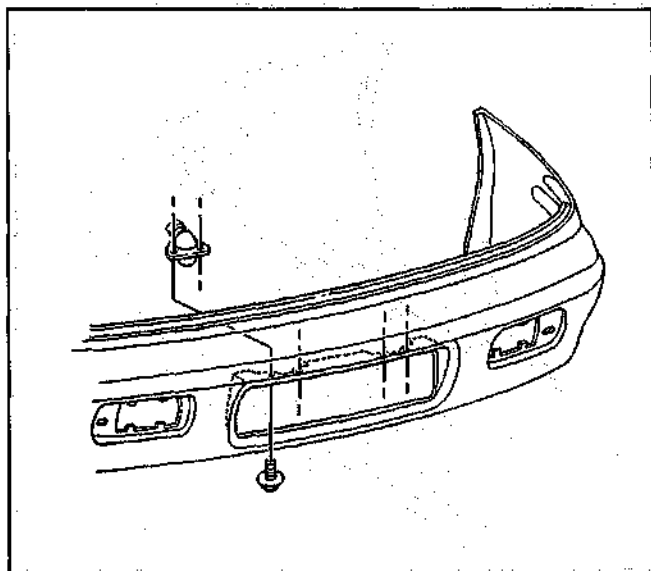


294766

3. Connect the rear license lamp electrical connector.



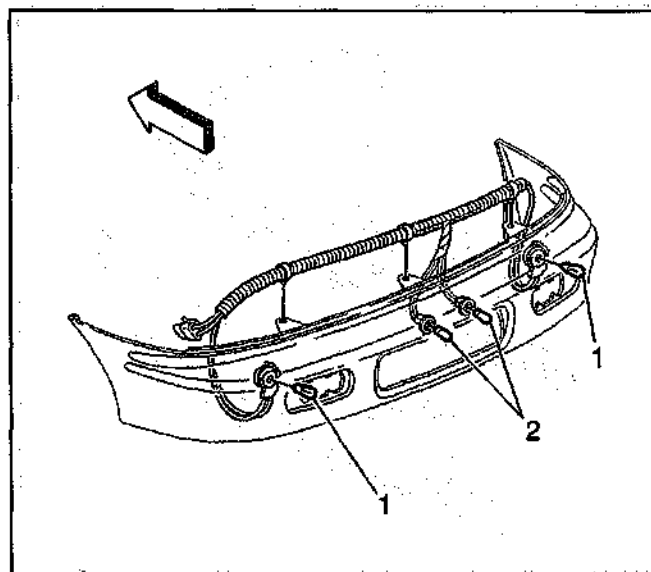
294765



379380

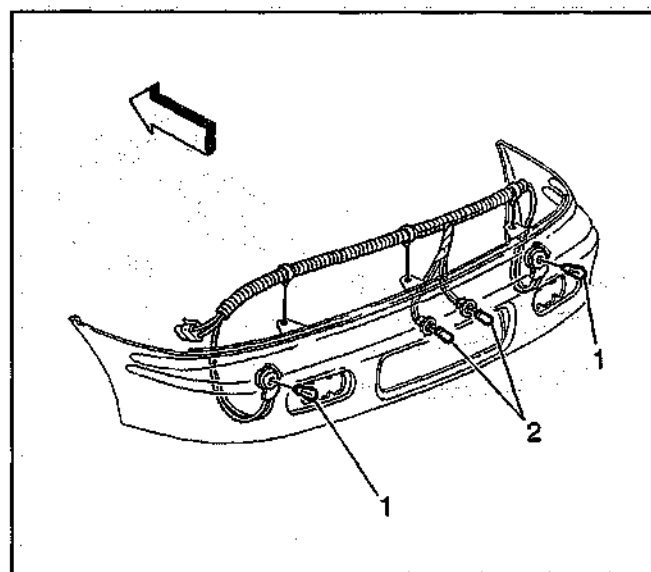
License Lamp Replacement (Export)**Removal Procedure**

1. Disconnect the license lamp electrical connector.
2. Remove the rear license lamp screws.
3. Remove the rear license lamp from the rear fascia.



379383

4. Remove the rear license lamp bulbs (2), if necessary.



379383

Installation Procedure

1. install the rear license lamp bulbs (2), if necessary.

2. Install the rear license lamp to the rear fascia.

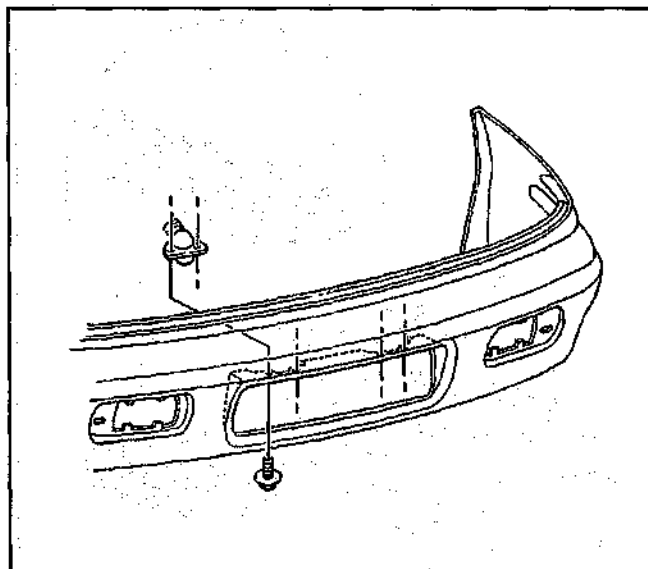
Notice: Refer to *Fastener Notice* in Cautions and Notices.

3. Install the rear license lamp screws.

Tighten

Tighten the rear license lamp screws to 1.9 N·m (17 lb in).

4. Connect the license lamp electrical connector.

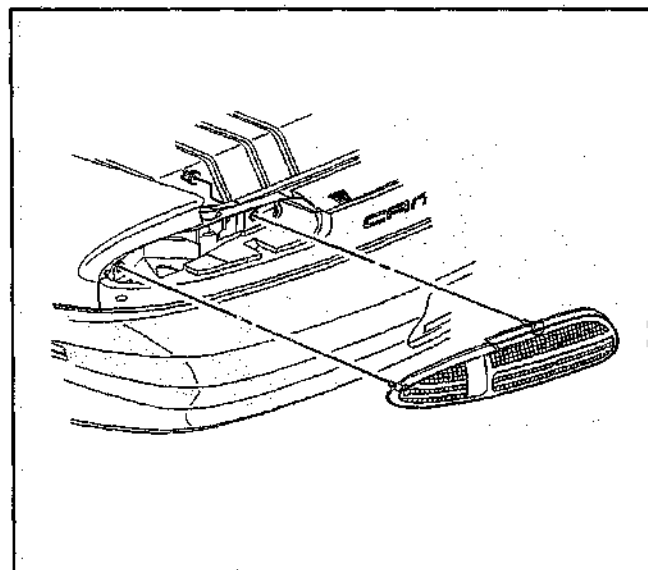


379380

Tail Lamp Replacement (Chevrolet)

Removal Procedure

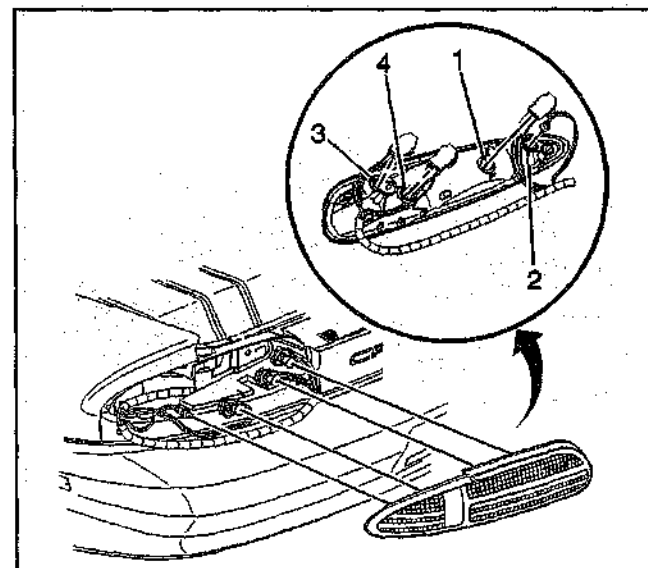
1. Reposition the rear compartment trim to access the taillamp nuts.
2. Remove the taillamp nuts.
3. Pull the taillamp outward from the rear end finishing panel.



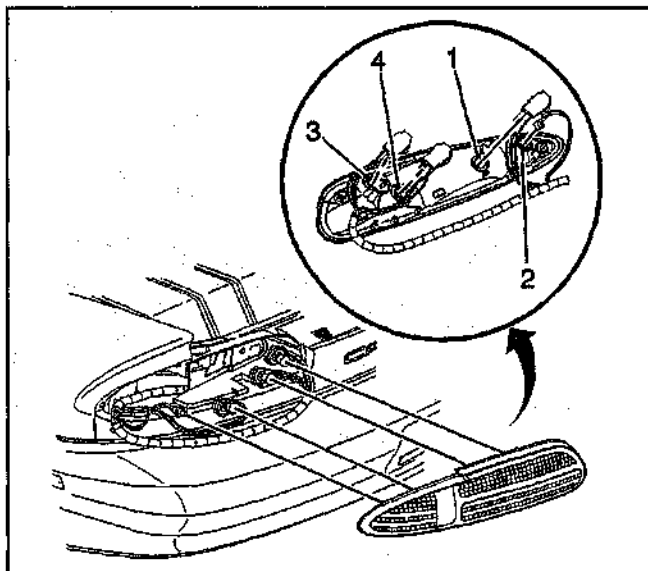
294768

4. Remove the following wiring harness sockets from the taillamp:

- The taillamp/stoplamp socket (1)
- The taillamp socket (2)
- The back-up lamp socket (3)
- The turn signal socket (4)



294769

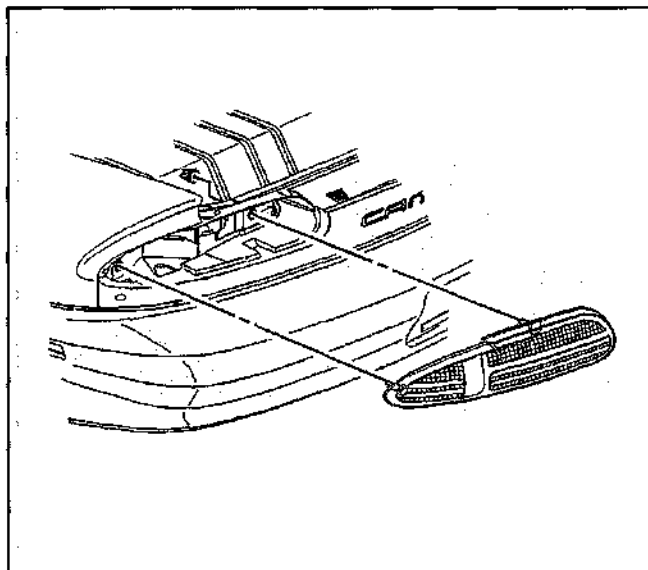


294769

Installation Procedure

1. Install the following wiring harness sockets to the taillamp.

- The turn-signal socket (4)
- The back-up lamp socket (3)
- The taillamp socket (2)
- The taillamp/stoplamp socket (1)



294768

2. Install the taillamp to the rear end finishing panel.

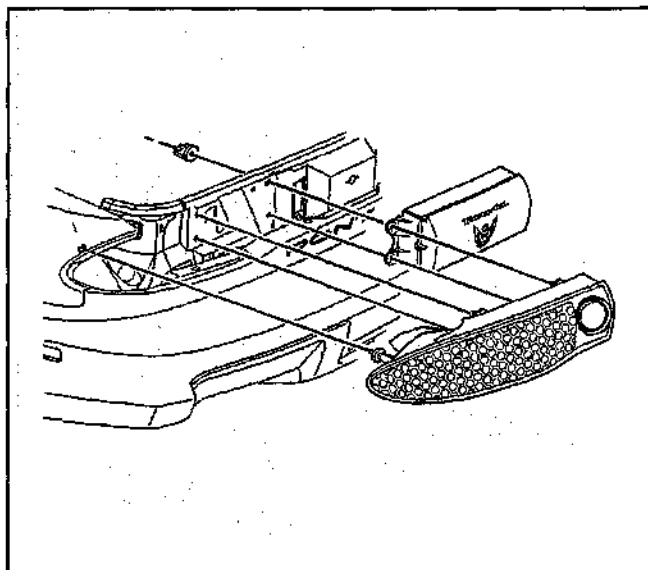
Notice: Refer to *Fastener Notice* in Cautions and Notices.

3. Install the taillamp nuts.

Tighten

Tighten the taillamp nuts to 3 N·m (27 lb in).

4. Reinstall the rear compartment trim.



294772

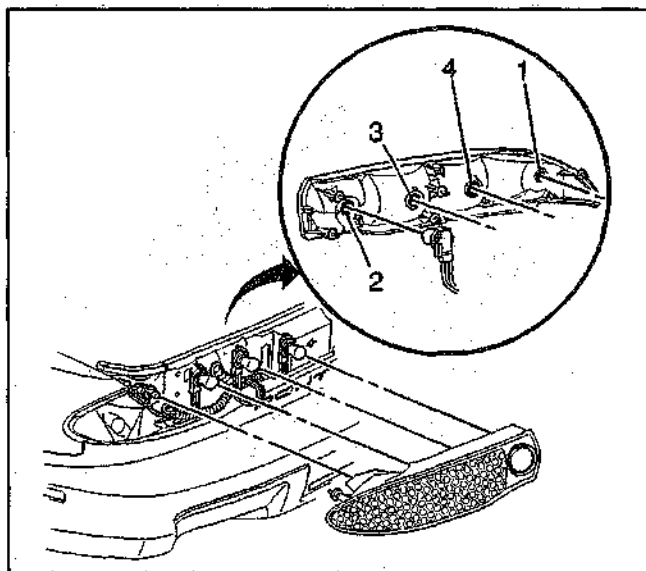
Tail Lamp Replacement (Pontiac)**Removal Procedure**

1. Reposition the rear compartment trim to access the taillamp nuts.
2. Remove the taillamp nuts.
3. Remove the taillamp from the rear end panel.
4. Remove the taillamp filler, if needed.

Remove both taillamps in order to replace the taillamp filler.

5. Remove the following wiring harness sockets remove the taillamp:

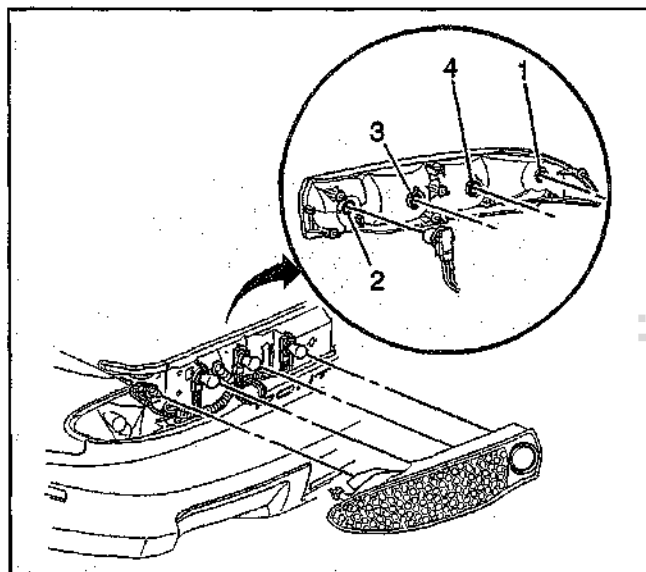
- The taillamp socket (1)
- The taillamp/stoplamp/turn signal sockets (3, 4)
- The back-up lamp socket (2)



294774

Installation Procedure

1. Install the following wiring harness sockets to the taillamp.
 - The back-up lamp socket (2)
 - The taillamp/stoplamp/turn signal sockets (3, 4)
 - The taillamp socket (1)
2. Install the taillamp filler, if needed.



294774

3. Install the taillamp to the rear end panel.

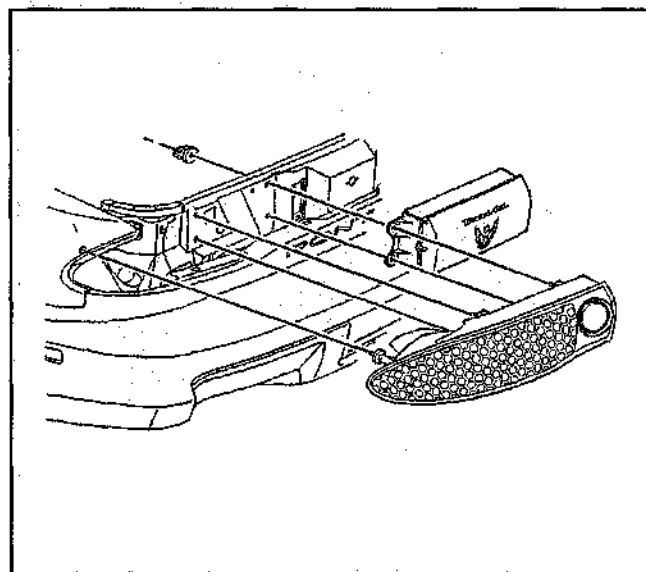
Notice: Refer to *Fastener Notice* in Cautions and Notices.

4. Install the taillamp nuts.

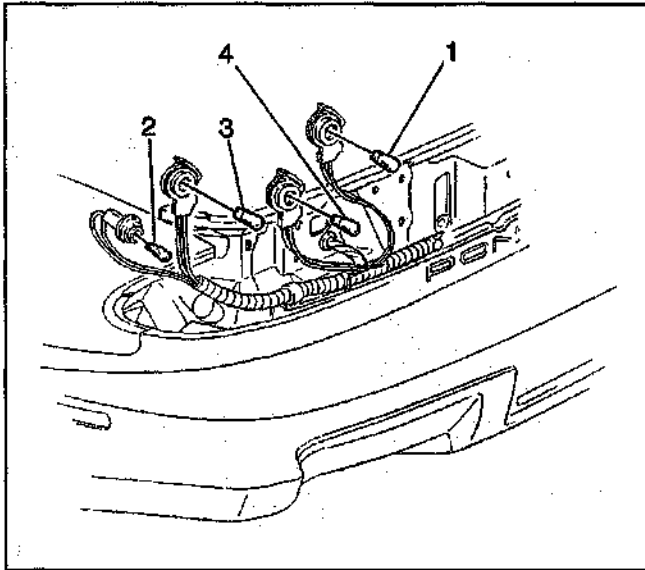
Tighten

Tighten the taillamp nuts to 3 N·m (27 lb.in).

5. Reinstall the rear compartment trim.



294772

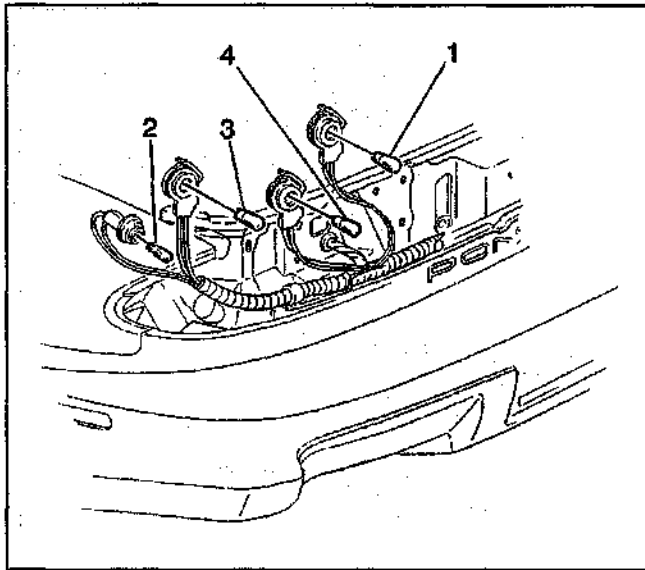


294776

Tail Lamp Bulb Replacement (Pontiac)

Removal Procedure

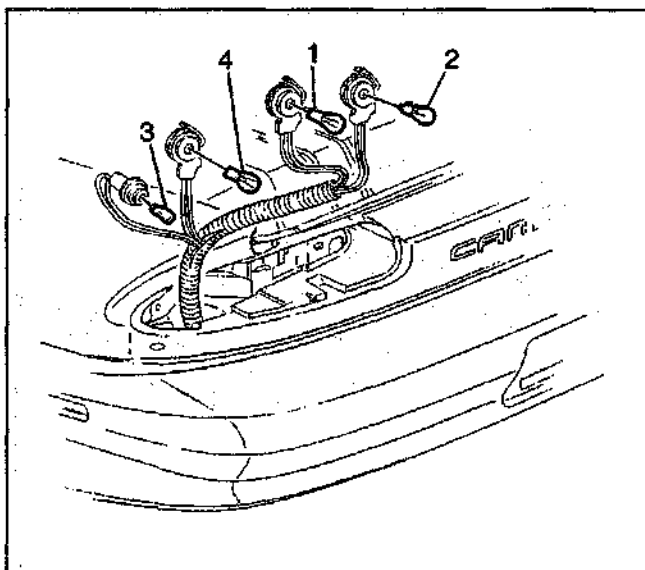
1. Remove the taillamp. Refer to *Tail Lamp Replacement (Pontiac)*.
2. Remove the following taillamp bulbs from the harness socket.
 - Back up (1)
 - Taillamp (2)
 - Taillamp/stoplamp/turn signal (3, 4)



294776

Installation Procedure

1. Install the following taillamp bulbs to the harness socket.
 - Back up (1)
 - Taillamp (2)
 - Taillamp/stoplamp/turn signal (3, 4)
2. Install the taillamp. Refer to *Tail Lamp Replacement (Pontiac)*.



294770

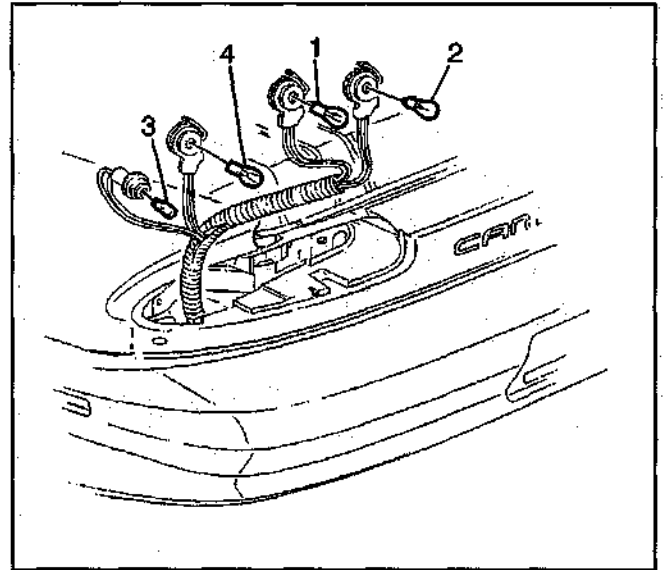
Tail Lamp Bulb Replacement (Chevrolet)

Removal Procedure

1. Remove the taillamp. Refer to *Tail Lamp Replacement (Chevrolet)*.
2. Remove the following taillamp bulbs from the harness socket.
 - Turn signal (1)
 - Back up (2)
 - Taillamp (3)
 - Taillamp/stoplamp (4)

Installation Procedure

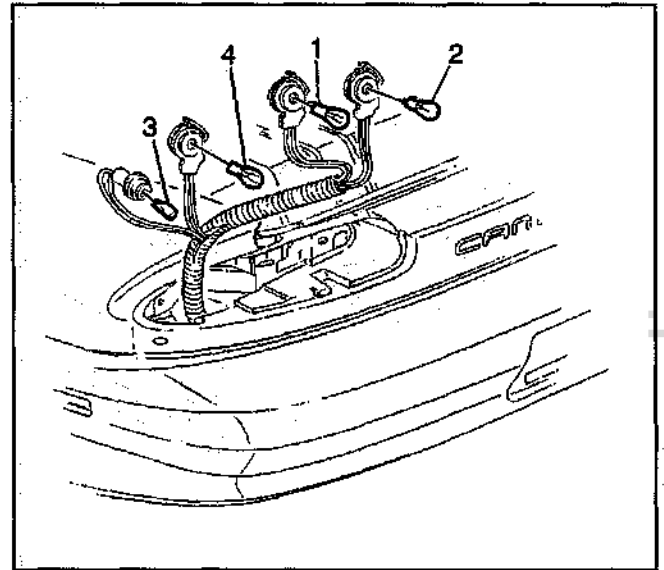
1. Install the following taillamp bulbs to the harness socket.
 - Turn signal (1)
 - Back up (2)
 - Taillamp (3)
 - Taillamp/stoplamp (4)
2. Install the taillamp. Refer to *Tail Lamp Replacement (Chevrolet)*.



294770

Turn Signal Lamp Bulb Replacement - Rear (Chevrolet)**Removal Procedure**

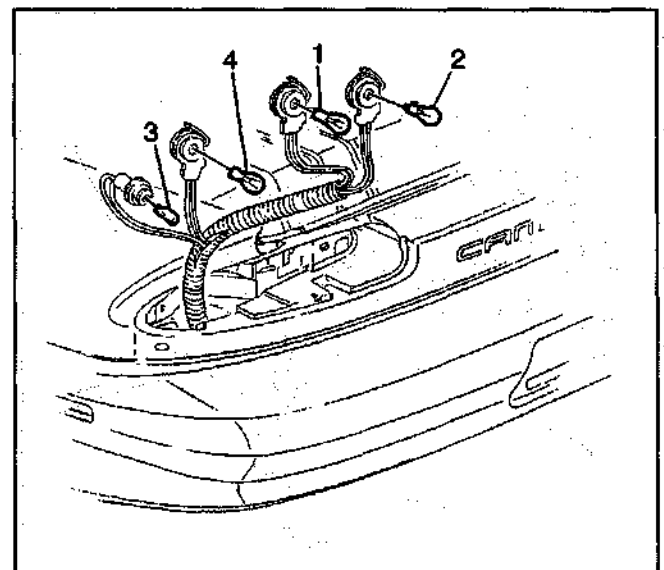
1. Remove the taillamp. Refer to *Tail Lamp Replacement (Chevrolet)*.
2. Remove the following turn signal bulb (1) from the harness socket.



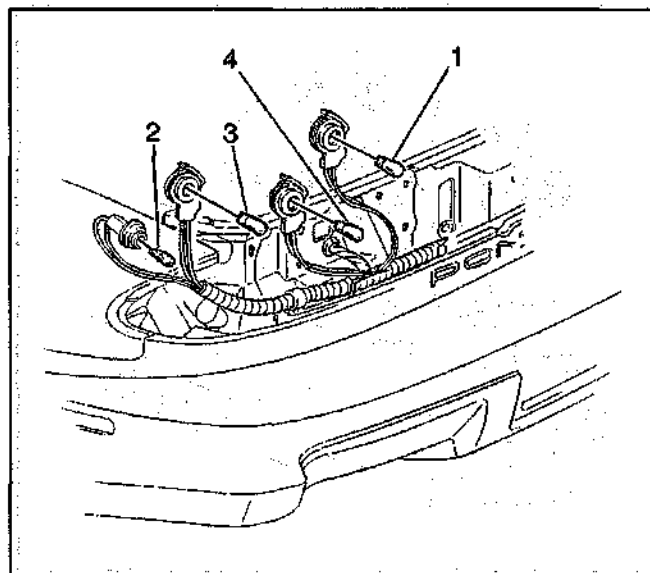
294770

Installation Procedure

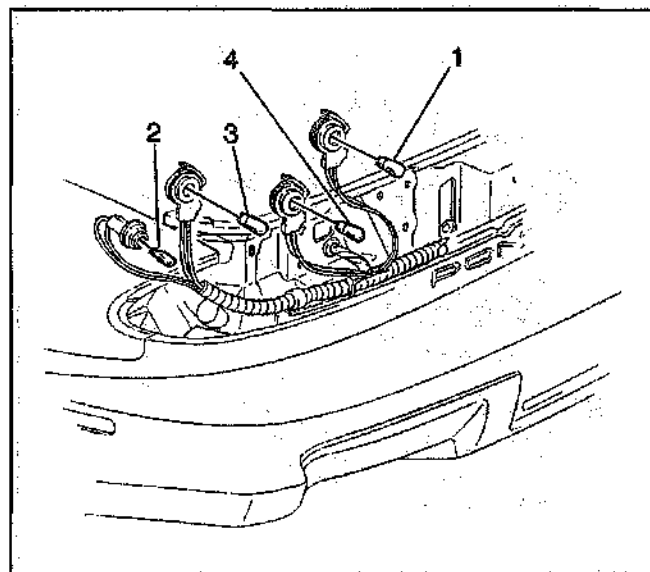
1. Install the following turn signal bulb (1) to the harness socket.
2. Install the taillamp. Refer to *Tail Lamp Replacement (Chevrolet)*.



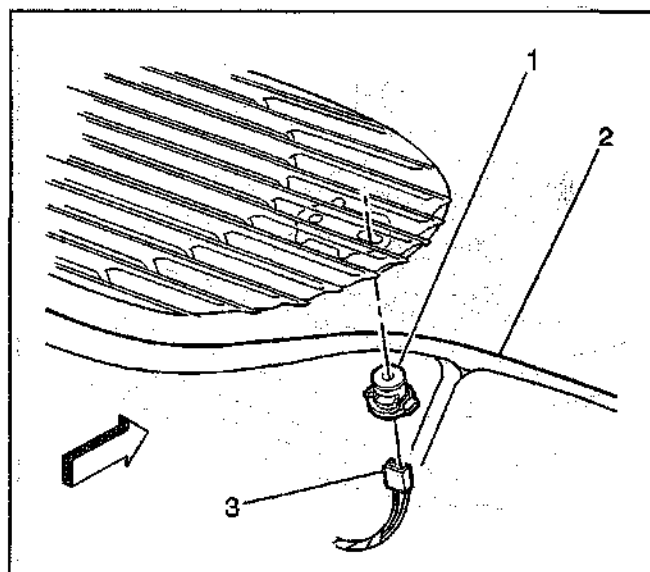
294770



294776



294776



294801

Turn Signal Lamp Bulb Replacement - Rear (Pontiac)

Removal Procedure

1. Remove the taillamp. Refer to *Tail Lamp Replacement (Pontiac)*.
2. Remove the following turn signal bulbs (3 and/or 4) from the harness socket.

Installation Procedure

1. Install the following turn signal bulbs (3 and/or 4) to the harness socket.
2. Install the taillamp. Refer to *Tail Lamp Replacement (Pontiac)*.

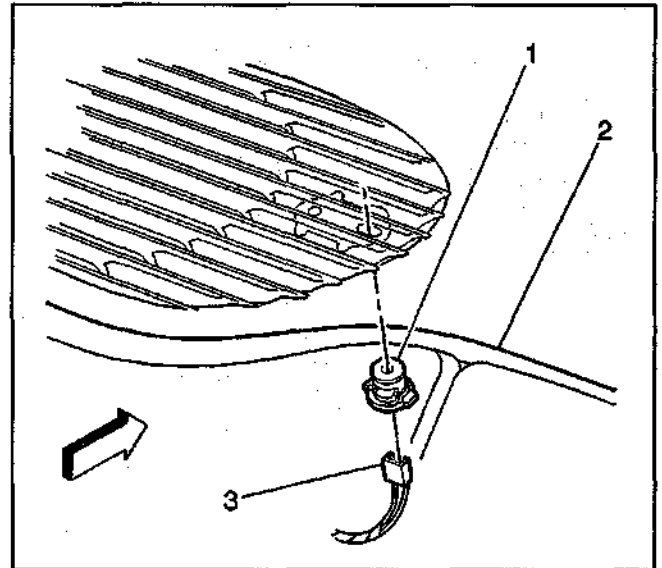
Daytime Running Lamps (DRL) Ambient Light Sensor Replacement

Removal Procedure

1. Remove the I/P upper trim pad. Refer to *Trim Pad Replacement - IP Upper* in Instrument Panel, Gauges and Console.
2. Remove the DRL ambient light sensor (1) from the trim pad (2).
Twist the DRL ambient light sensor (1) counterclockwise.
3. Disconnect the DRL electrical connector (3) from sensor (1).

Installation Procedure

1. Connect the sensor (1) to the DRL electrical connector (3).
2. Install the DRL ambient light sensor (1) to the trim panel (2).
Twist the DRL ambient light sensor (1) clockwise.
3. Install the IP upper trim pad. Refer to *Trim Pad Replacement - IP Upper* in Instrument Panel, Gauges and Console.



294801

Dome and Reading Lamp Bulb Replacement**Removal Procedure**

1. Remove the dome lamp cover.
2. Using a flat-bladed tool gently remove the bulb.

Installation Procedure

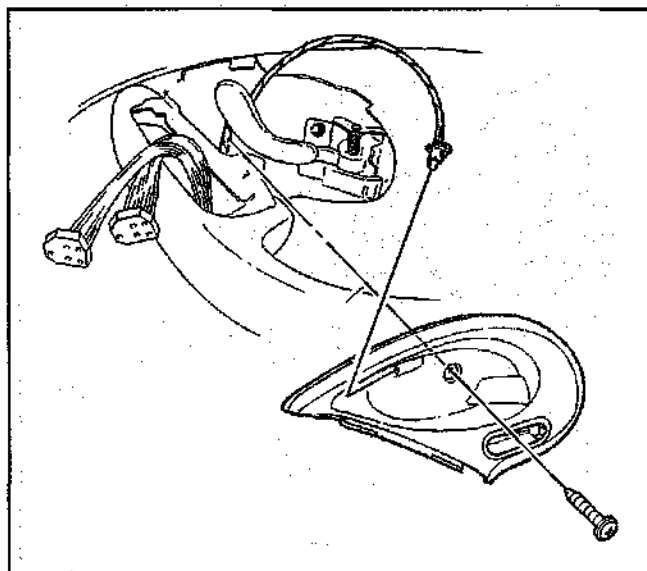
1. Install the bulb to the socket.
2. Install the dome lamp cover.

Ashtray Lamp Bulb Replacement**Removal Procedure**

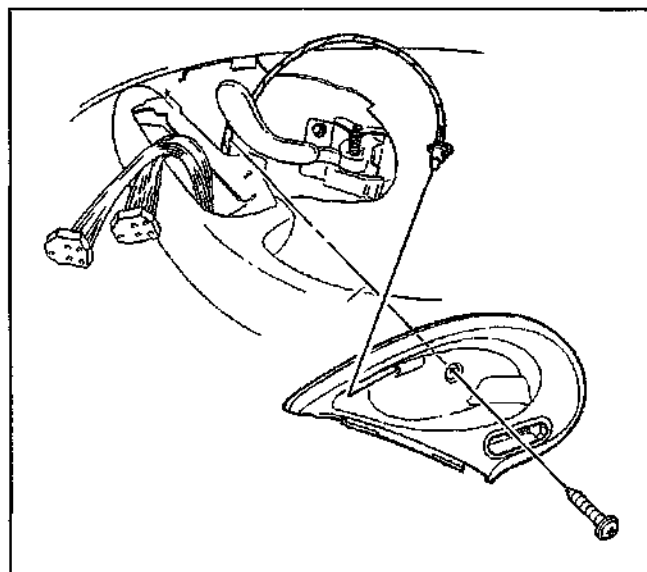
1. Open the ashtray cover.
2. Remove the ashtray.
3. Pull the bulb, the socket and the shield through the opening in the front floor console.
4. Remove the bulb and the socket from the shield.
5. Remove the bulb from the socket.

Installation Procedure

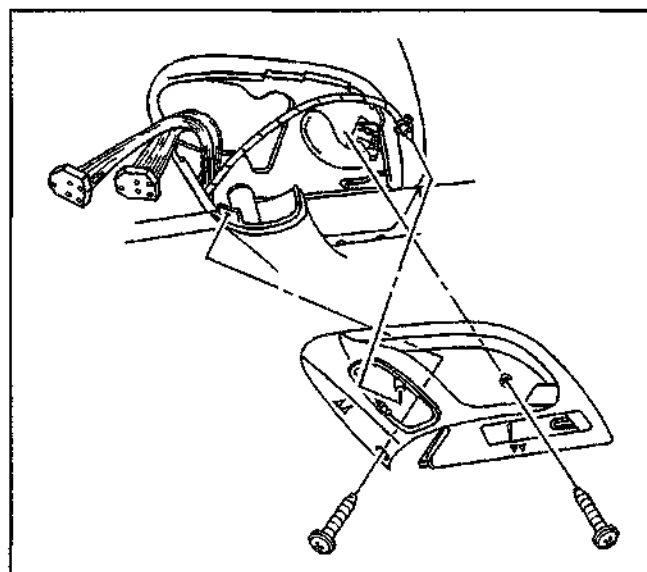
1. Install the bulb to the socket.
2. Install the shield to the bulb and the socket.
3. Install the bulb, the socket and the shield to the opening which is in the front floor console.
4. Install the ashtray.
5. Close the ashtray cover.



294781



294781



294790

Door Lamp Replacement (Pontiac)

Removal Procedure

1. Remove the door switch panel from the door.
2. Disconnect the switches electrical connectors.
3. Remove the inside handle bezel screw.
4. Remove the inside handle bezel.
5. Disconnect the socket from the inside handle bezel.
6. Remove the bulb from the socket.

Installation Procedure

1. Install the bulb to the socket.
2. Install the socket to the inside handle bezel.
3. Install the inside handle bezel.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

4. Install the inside handle bezel screw.

Tighten

Tighten the inside handle bezel screw to 1.4 N·m (12 lb in).

5. Install the door switch panel to the door.
6. Connect the switches electrical connectors.

Door Lamp Replacement (Chevrolet)

Removal Procedure

1. Remove the door switch panel from the door.
2. Disconnect the switches electrical connectors.
3. Remove the inside handle bezel screws.
4. Remove the inside handle bezel.
5. Disconnect the harness socket from the bezel.
6. Remove the bulb from the socket.

Installation Procedure

1. Install the bulb to the socket.
2. Connect the harness socket to the bezel.
3. Install the inside handle bezel.

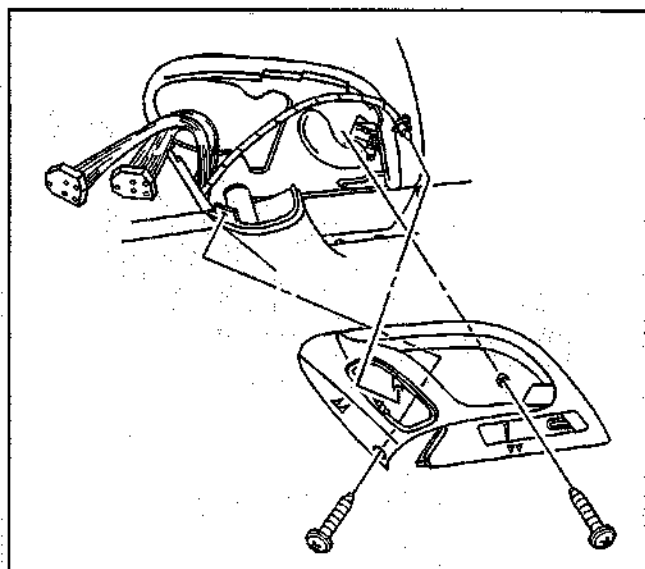
Notice: Refer to *Fastener Notice* in Cautions and Notices.

4. Install the inside handle bezel screws.

Tighten

Tighten the inside handle bezel screws to 1.4 N·m (12 lb in).

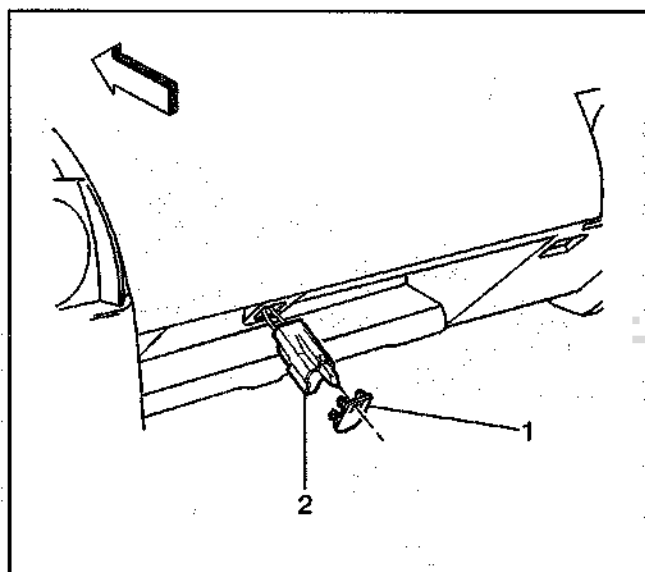
5. Connect the switches electrical connectors.
6. Install the door switch panel to the door.



294790

IP Compartment Lamp Replacement**Removal Procedure**

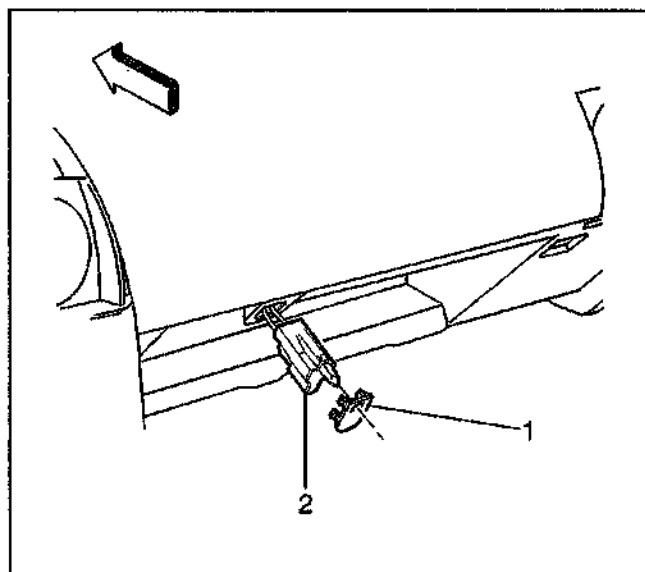
1. Open the I/P compartment door.
2. Remove the bulb from the harness connector (2).
3. Remove the retainer (1) and connector (2) from the I/P compartment, if necessary.



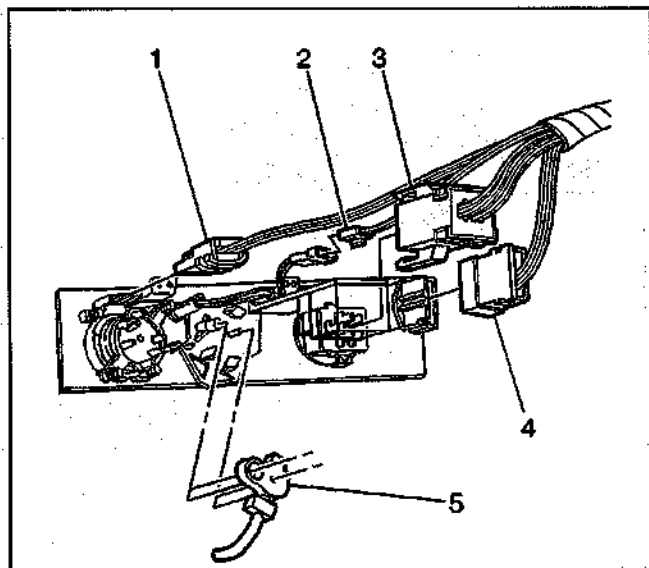
366722

Installation Procedure

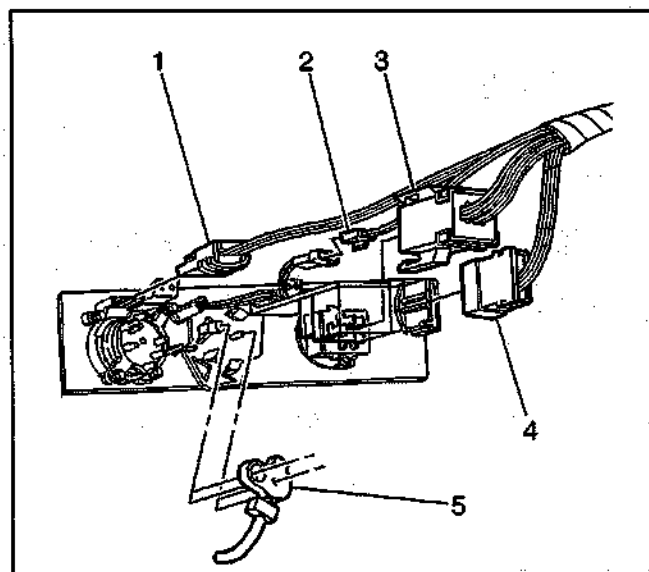
1. Install the retainer (1) and connector (2) to the I/P compartment, if necessary.
2. Install the bulb to the harness connector (2).
3. Close the I/P compartment door.



366722



282917



282917

HVAC Control Lamp Replacement

Removal Procedure

1. Remove the HVAC control. Refer to *HVAC Control Lamp Bulb Replacement* in HVAC Systems With AC-Manual
2. Disconnect the HVAC bulb jumper connector (2).
3. Disconnect the harness socket from the HVAC control.
4. Remove the bulb from the socket.

Installation Procedure

1. Install the bulb to the socket.
2. Connect the harness socket to the HVAC control.
3. Connect the HVAC bulb jumper connector (2).
4. Install the HVAC control. Refer to *HVAC Control Lamp Bulb Replacement* in HVAC Systems With AC-Manual

Courtesy Lamp Replacement - Rear Quarter

Removal Procedure

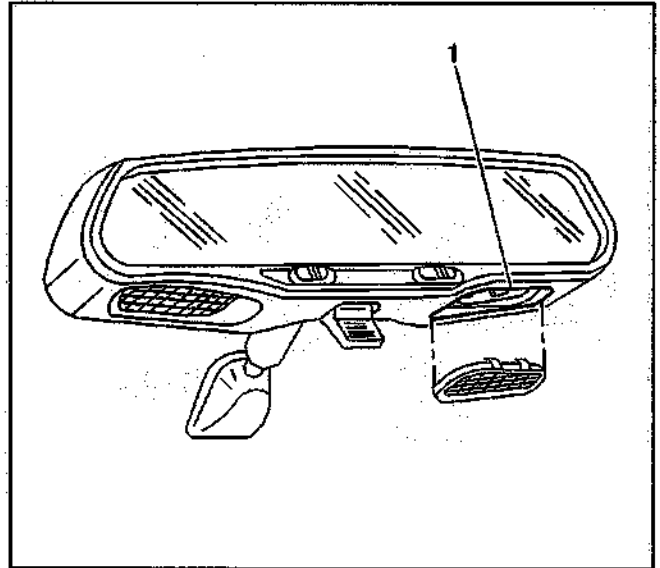
1. Remove the rear courtesy lamp from the quarter trim finishing panel.
2. Disconnect the electrical connector from the courtesy lamp.

Installation Procedure

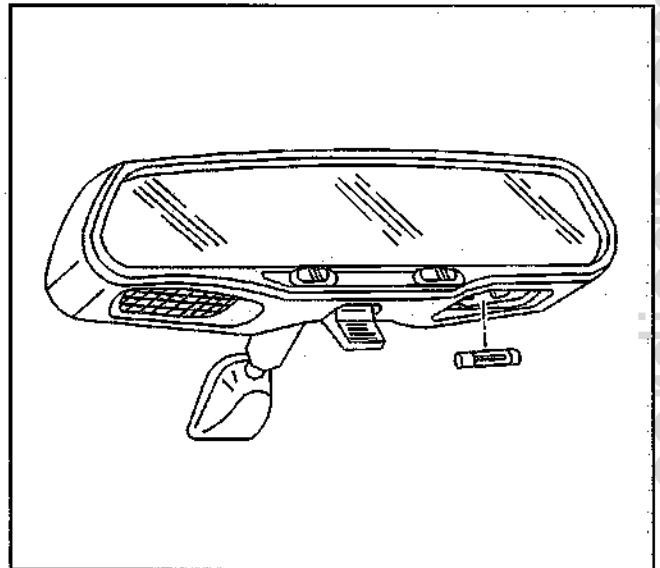
1. Connect the electrical connector to the courtesy lamp.
2. Install the rear courtesy lamp to the quarter trim finishing panel.

Rearview Mirror Lamp Replacement**Removal Procedure**

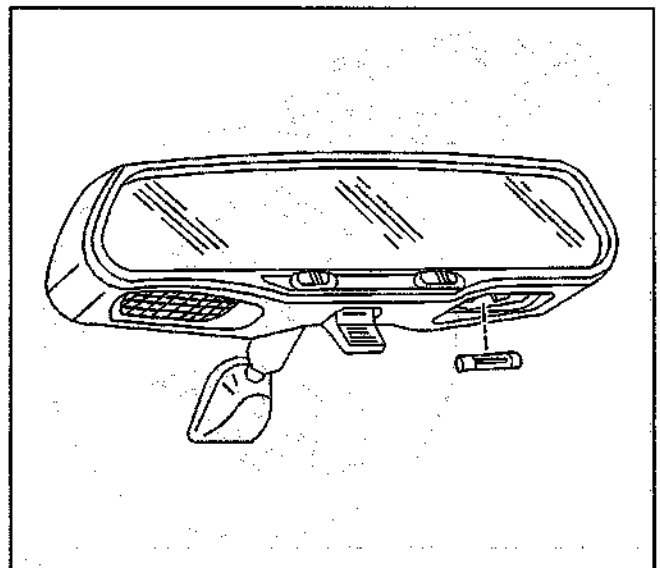
1. Use a flat-bladed tool to gently remove the lamp lens from the inside rearview mirror (1).

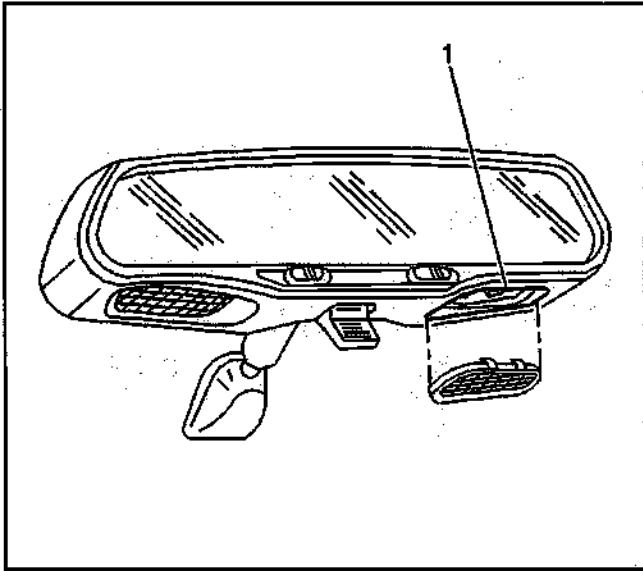


2. Use a flat-bladed tool to gently remove the bulb from the lamp.
3. Remove the bulb from the socket.

**Installation Procedure**

1. Install the bulb to the lamp.





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2. Install the lens to the inside rearview mirror (1).

Trans Flr Shift Control Indicator Lamp Replacement

Removal Procedure

1. Remove the front floor console transmission opening trim plate.
2. Remove the bulb and socket from the front floor console transmission opening trim plate.
3. Remove the bulb from the socket.

Installation Procedure

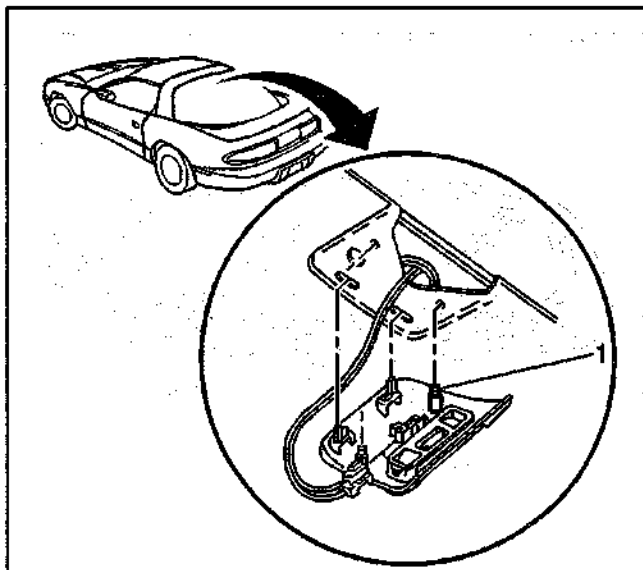
1. Install the bulb to the socket.
2. Install the bulb and socket to the front floor console transmission opening trim plate.
3. Install the front floor console transmission opening trim plate.

Snap the trim plate in place to secure the trim plate.

Dome Lamp Replacement

Removal Procedure

1. Remove the dome lamp bolts (1).
2. Disconnect the electrical connector from the dome lamp.
3. Remove the dome lamp bulb from the dome lamp.



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Installation Procedure

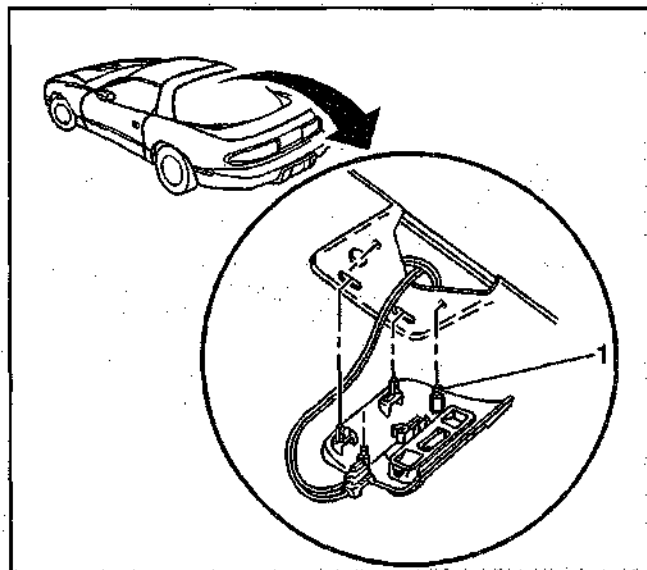
1. Install the dome lamp bulb to the dome lamp.
2. Connect the electrical connector to the dome lamp.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

3. Install the dome lamp bolts (1).

Tighten

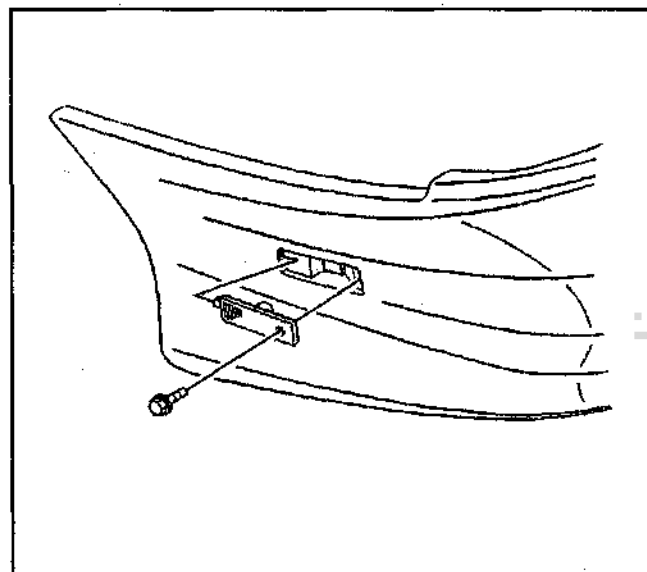
Tighten the dome lamp bolts (1) to 1.7 N·m (15 lb in).



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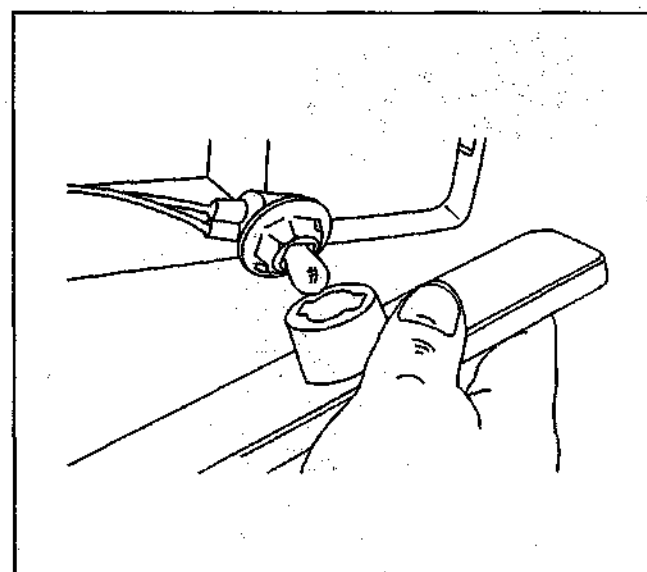
Side Marker Lamp Replacement**Removal Procedure**

1. Remove the rear sidemarker lamp screw from the rear sidemarker lamp.

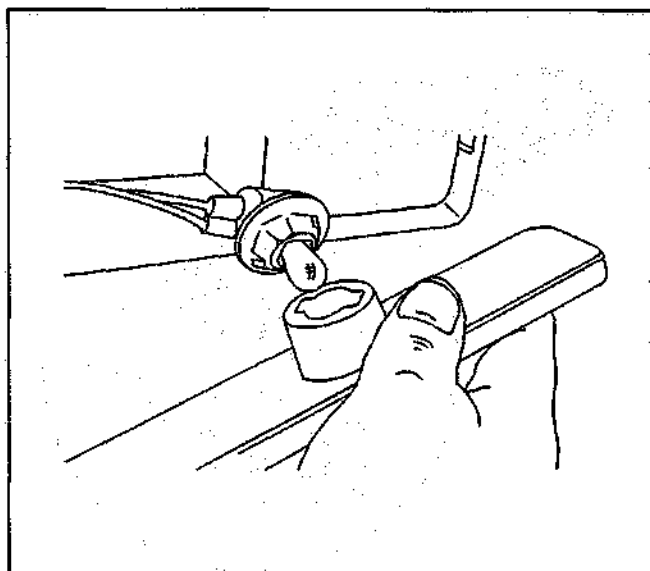


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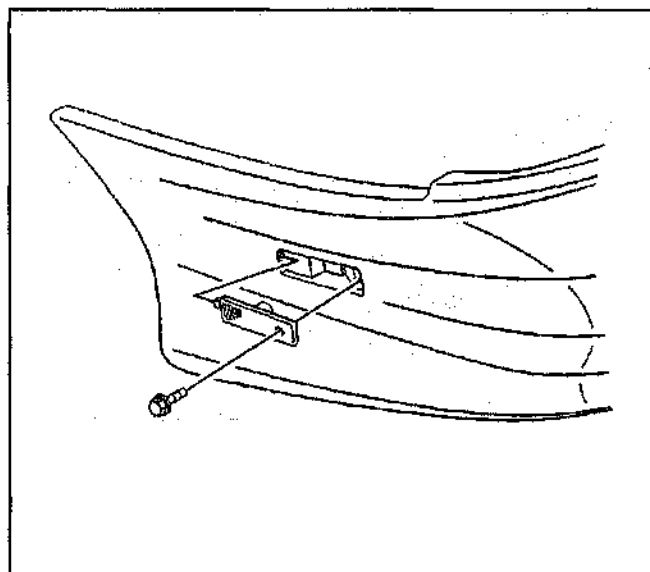
2. Remove the harness socket from the rear sidemarker lamp.
3. Remove the rear sidemarker lamp from the rear fascia.



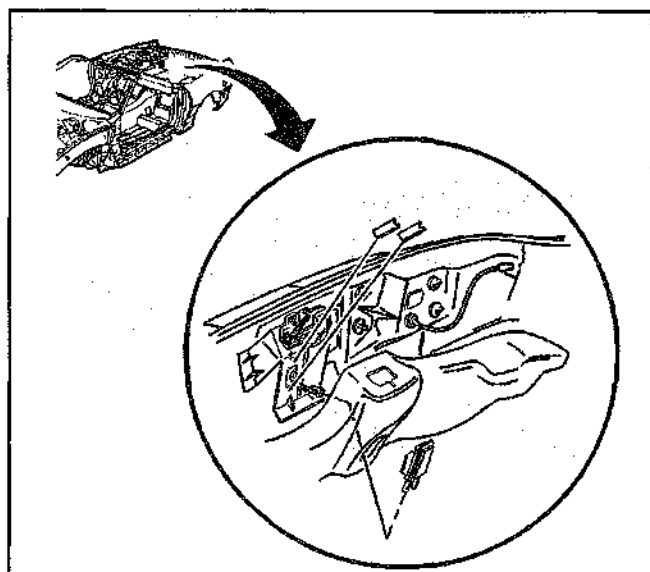
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Installation Procedure

1. Install the rear sidemarker lamp from the rear fascia.
2. Install the harness socket from the rear sidemarker lamp.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

3. Install the rear sidemarker lamp screw to the rear sidemarker lamp.

Tighten

Tighten the rear sidemarker lamp screw to 1.4 N·m (12 lb in).

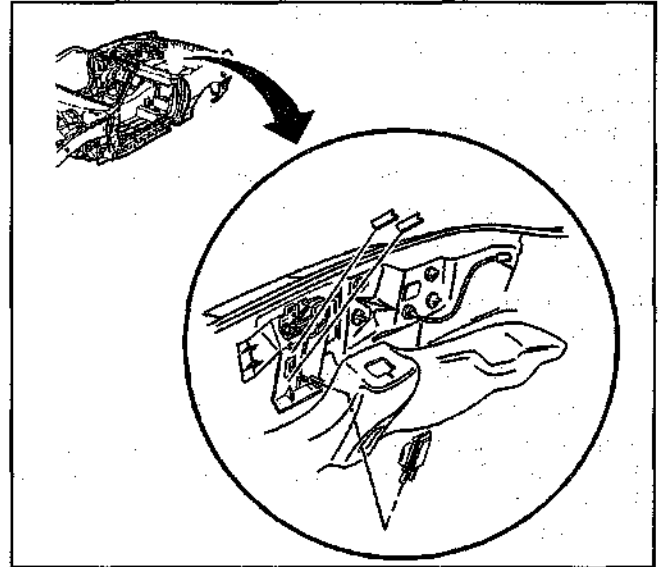
Rear Compartment Lamp Replacement

Removal Procedure

1. Unsnap the rear compartment lamp from the rear finish panel.
2. Disconnect the electrical connector from the lamp.
3. Push the top of the rear compartment lamp bulb down in order to remove the bulb from the clips.

Installation Procedure

1. Install the rear compartment lamp bulb to the lamp by performing the following actions:
 - 1.1. Push the top of the metal strip down.
 - 1.2. Attach the bulb to the clips.
2. Connect the electrical connector to the lamp.
3. Snap the rear compartment lamp to the rear finish panel.



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Description and Operation**Lighting System Description****Halogen Bulbs**

Caution: Halogen bulbs contain gas under pressure. Handling a bulb improperly could cause it to shatter into flying glass fragments. To help avoid personal injury:

- Turn off the lamp switch and allow the bulb to cool before changing the bulb.
- Leave the lamp switch OFF until the bulb change is complete.
- Always wear eye protection when changing a halogen bulb.
- Handle the bulb only by its base. Avoid touching the glass.
- Keep dirt and moisture off the bulb.
- Properly dispose of the used bulb.
- Keep halogen bulbs out of the reach of children.

Back-up Lamps

On Chevrolet vehicles, the back-up lamps are located on the upper, innermost side of the taillamp. On Pontiac vehicles, the back-up lamps are located on the innermost side of the taillamp, next to the taillamp filler. The back-up lamps will come on when the transmission is placed into the REVERSE position. On vehicles with automatic transmissions, the back-up lamps are activated by the park/neutral position switch. On vehicles with a manual transmission, the back-up lamps are activated by the back-up lamp switch.

Daytime Running Lamps (DRL)

All vehicles are equipped with daytime running lamps (DRL). The DRL system includes a solid state module, and on Chevrolet vehicles only the system includes an automatic control ambient light sensor.

Chevrolet and Canadian Chevrolet/Pontiac

The light sensor is located on the I/P, inside of the vent grille. The light sensor triggers the DRL module to turn on the turn signal lamps when all of the following conditions apply:

- The vehicle has been started.
- The vehicle is in daylight.
- The headlamp switch is in the OFF position.

Turning the headlamps on manually overrides the DRL system. The following lights are not on when the DRL are on:

- The I/P lights
- The taillamps

The car light sensor triggers the module to turn the headlamps ON under the following conditions:

- At dusk
- If the car is started in the darkness

The light sensor will perform the following actions after sunrise, or when the vehicle is in a bright enough area:

- Turn OFF the headlamps
- Turn ON the turn signal lamps

Pontiac

The DRL system turns the turn signal lamps ON when the vehicle is started. The turn signal lamps will stay on until the headlamps are turned on manually in order to override the system.

Front Fog Lamps

On Chevrolet vehicles equipped with fog lamps, the fog lamp switch is located above the radio and to the right of the steering wheel. On Pontiac vehicles, the fog lamp switch is located below the headlamp and instrument panel dimmer switch, to the left of the steering column. Perform the following steps in order to use the fog lamps:

1. Turn on the headlamps or the parking lamps.
2. Push the right side of the fog lamp switch in order to turn on the fog lamps.
3. Push the left side of the fog lamp switch in order to turn off the fog lamps.

Do not use the fog lamps as a substitute for the headlamps.

Switching to the high-beam headlamps will turn the fog lamps off. Switching back to low-beam headlamps will turn the fog lamps on again.

Aim the fog lamps for proper illumination of the road. Inspect the fog lamp aim after the following situations:

- When a new bulb is installed
- If service repairs to the front end area may have disturbed the fog lamp mounting

Front Sidemarkers Lamps

On Chevrolet vehicles, the front sidemarkers lamps are part of the park and turn signal lamp. On Pontiac vehicles, the front side marker lamp on the outer sides of the front fascia. The front sidemarkers lamps will come on when either of the following lamps are on:

- The headlamps
- The parking lamps

The front sidemarkers lamps also have reflectors that will shine when light strikes the reflectors. The reflectors will shine whether or not the vehicle lamps are on.

The appropriate front sidemarkers lamps will flash in unison with the front turn signal lamp on the same side when one of the following situations occurs:

- The headlamps are off when a turn is signaled.
- The parking lamps are off when a turn is signaled.

The front sidemarkers lamp and the front turn signal lamp will flash alternately when one of the following situations exists:

- The headlamps are on and a turn is signaled.
- The parking lamps are on and a turn is signaled.

Hazard Lamp Flasher

The hazard warning flashers are part of the turn signal circuit. The hazard warning switch is on the right side of the steering column. Pressing in on the hazard warning switch button causes the following lamps to flash:

- The front turn signal lamps
- The rear turn signal lamps
- The front sidemarkers lamps

Pulling on the hazard warning switch knob will turn off the hazard warning flashers.

The hazard warning flashers will work with the ignition switch in any position. When the hazard warning flashers are on, the turn signals do not work.

Headlamps

The headlamps are controlled by the headlamp switch. The headlamp switch is located in the headlamp and instrument panel lamp dimmer switch to the left of the steering column. The headlamps will come on with the ignition switch in any position. The headlamps are turned on by rotating the headlamp switch completely to the right. The headlamps are turned off by turning the headlamp switch completely to the left.

The following headlamps beams are controlled by the multi-function lever (turn signal lever) that is located on the left side of the steering column:

- The headlamp low-beam
- The headlamp high-beam

Once the headlamps are on, the headlamp beam can be changed as described below:

- From high-beam to low-beam
- From low-beam to high-beam

Change the headlamp beam by pulling the lever toward the driver seat until the switch clicks. An indicator lamp on the instrument cluster will come on when the high-beam headlamps are on.

Important: Some state and local laws specify requirements for headlamp aim. You must follow these laws.

Aim the headlamps for proper illumination of the road. Inspect the headlamp aim when one of the following situations occurs:

- A new headlamp is installed.
- Service repairs are made to the front end area that may have disturbed the headlamp or the headlamp mounting.

High-Mount Stoplamp

The high-mount stoplamp is located in the center of the rear end spoiler. The high-mount stoplamp illuminates whenever the brake pedal is pushed down. The lamp is powered separately from the taillamps through a circuit in the stoplamp switch.

Parking and Turn Signal Lamps

When the turn signals are activated, the appropriate front parking lamp flashes to signal a turn. The turn signal works only when the following conditions apply:

- The ignition switch is on.
- The hazard lamp flashers are turned off.

The turn signals are controlled by the multi-function lever. The multi-function lever is located on the left side of the steering column. Moving the lever up or down (past the detent) will activate the turn signals. When the turn is complete the following actions will occur:

- The multi-function lever will return to the horizontal position.
- The turn signals will stop flashing.

Move the signal only to the first detent and hold it there during the following actions:

- Changing lanes
- Shallow turns where the steering wheel does not turn far enough to cancel the signal

When you release the lever, the lever will return to the horizontal and the turn signal will cancel.

Rear License Lamp

The rear license lamp will come on when the headlamps are on. The rear license lamp is mounted on the rear bumper fascia above the license plate.

Rear Sidemarkers Lamps

The rear sidemarkers lamps are mounted on the rear bumper fascia. The rear sidemarkers lamps will come on when the headlamps are on. The rear sidemarkers lamps also have reflectors that shine when the reflectors are struck by light. The reflectors will shine whether or not the vehicle's lamps are on.

Taillamps

The following lamps are part of the taillamp:

- The taillamps
- The back-up lamps
- The turn signal lamps

Turning on the headlamps will also turn on the taillamps. When the brake pedal is pushed down, the taillamps will glow brighter in order to function as stoplamps.

If the brake pedal is held down when a turn is signaled, the following situations will occur:

- One side will flash
- The other side will stay on brightly

Turn Signal Lamp Flasher

The turn signal lamp flasher is mounted behind the instrument panel above the data link connector to the knee bolster bracket.

Ashtray Lamp

On vehicles equipped with a manual transmission, the ashtray lamp is mounted beneath the ashtray. The ashtray lamp will come on when the headlamps are turned on. On vehicles equipped with an automatic transmission, the ashtray light comes from the automatic transmission range selector indicator lamp through a small tunnel. The ashtray lamp will come on when the headlamps are turned on.

Automatic Transmission Range Selector Indicator Lamp

On vehicles with an automatic transmission, the automatic transmission range selector indicator lamp will illuminate the transmission control indicator lamp. The transmission control indicator lamp is located on the front floor console. The automatic transmission range selector indicator lamp will come on when one of the following lamps are turned on:

- The parking lamps
- The headlamps

Dome and Reading Lamps

On coupes and T-top equipped vehicles, the dome lamp is located on the roof, above the rear seat. The dome lamp will come on when one of the following conditions apply:

- A door is opened.
- The interior lamps are turned on.

To turn on the interior lamps, rotate the thumbwheel switch, located to the left of the headlamp switch, full up.

The front reading lamps are part of the inside rearview mirror on the following types of vehicles:

- Coupes
- Convertibles
- Vehicles equipped with T-tops

When the doors are closed, use the lamp switch in order to turn a reading lamp on or off. When the doors are open, the reading lamps will come on and stay on until the doors are closed.

Front Side Door Courtesy Lamps

The front side door courtesy lamps are mounted behind the front side door inside handle bezels. The front side door courtesy lamps come on when the driver turns on the parking lamps or the headlights. The front side door courtesy lamps illuminate the door handles and controls.

Heater, Ventilation, and Air Conditioning

The HVAC control lamp is mounted on the back of the HVAC control. The HVAC control lamp will come on when the headlights are turned on. The HVAC control lamp illuminates the HVAC control knobs.

Instrument Panel Compartment Lamp

The instrument panel compartment lamp lights when the instrument panel compartment door is opened.

Rear Quarter Courtesy Lamps

Convertible

The rear quarter courtesy lamps are mounted in the following areas:

- The right quarter inner rear trim finishing panel
- The left quarter inner rear trim finishing panel

The rear quarter courtesy lamps come on during either of the following situations:

- A door is opened
- The interior lamps are turned on

Rear Compartment Lamp

Convertible

The rear compartment lamp is located in the rear compartment, below the rear compartment lid latch. The rear compartment lamp will come on when the rear compartment lid is opened.

Headlights Circuit Description (Europe and Japan)

When the headlamp switch is in the HEAD position, voltage is applied through the signal circuit of the headlamp switch to the headlamp dimmer switch. When the headlamp dimmer switch is in the low beam position, voltage is then applied to the left and right low beam headlamps through the supply voltage circuit of the low beam headlamps. When the voltage is applied through the supply voltage circuit of the low beam headlamps, the low beam headlamps turn on.

When the headlamp dimmer switch is moved to the high beam position, voltage is no longer applied through the supply voltage circuit of the low beam headlamps. Voltage is now applied through the supply voltage circuit of the high beam headlamps to the left and right high beam headlamps, turning them on. When the headlamp dimmer switch is in the high beam position, voltage is also applied to the instrument cluster through the supply voltage circuit of the high beam headlamps turning the IP high beam indicator on.

Headlights/Daytime Running Lights (DRL) Circuit Description (Pontiac Domestic)

The daytime running lamps (DRL) module is designed to automatically turn on the low beam headlamps and the front park/turn lamps when the ignition switch is in the RUN position, the headlamps are off, and the park brake is off. There is no ambient light sensor. It is replaced by a jumper.

The DRL module will not operate any headlamps or exterior lamps if the park brake is applied before the ignition switch is turned to the RUN position. This allows the driver to start the vehicle and keep the headlamps off, as long as the park brake is applied. The DRL module activates the headlamps when the park brake is released with the ignition switch in the RUN position. The headlamps will not turn off if the park brake is applied after the ignition switch is turned to the RUN position.

When the headlamp switch is turned to the PARK or HEAD position, the DRL module turns the front park/turn lamps off. When the headlamp switch is turned to the HEAD position, battery voltage is applied to the low beam headlamps. Battery voltage is also applied to the headlamp dimmer switch. When the headlamp dimmer switch is turned to high beam, voltage is now applied to both high beam headlamps. The low beam headlamps stay on when the headlamp dimmer switch is in the high beam position. When the headlamp dimmer switch is in the high beam position, the instrument cluster high beam indicator turns on.

Headlights/Daytime Running Lights (DRL) Circuit Description (Chevy Dom, Pont Can, and Gulf States)

The DRL module does not operate if the system voltage is less than 9 volts or greater than 18 volts.

The daytime running lamps (DRL) module is designed to automatically operate the front park/turn lamps and the low beam headlamps depending on the outside light conditions.

The DRL module operates in 2 modes:

- The day mode

In the day mode, the DRL module turns on the low beam headlamps (at a reduced intensity) and the turn lamps when the DRL ambient light sensor detects daylight under the following conditions:

- The ignition switch is in the RUN position.
- The headlamp switch is off.
- The park brake switch is off.

- The low light mode

In the low light mode, the DRL ambient light sensor detects darkness, turning on the low beam headlamps (to full intensity) and the turn lamps.

Additionally, the DRL ambient light sensor turns on the following lamps:

- The tail/stop lamps (Chevrolet)
- The license lamps
- The tail lamps
- The park/turn lamps
- The tail/stop/turn lamps
- The side marker lamps

If the engine stalls with the DRL module in the low light mode, the DRL module turns off the low beam headlamps and the turn lamps while the engine is being cranked. The DRL module turns on the following lamps while the engine is being cranked:

- The park/turn lamps
- The side marker lamps
- The license lamps
- The tail lamps
- The tail/stop lamps (Chevrolet)
- The tail/stop/turn lamps

Pontiac Canada

When the headlamp switch is turned to the PARK or HEAD position, the DRL module turns the front turn lamps off. When the headlamps are turned on by the headlamp switch, battery voltage is applied to the low beam headlamps. Battery voltage is also applied to the headlamp dimmer switch. When the headlamp dimmer switch is turned to high beam, battery voltage is now applied to both high beam headlamps. The low beam headlamps stay on when the headlamp dimmer switch is in the high beam position. When the headlamp dimmer switch is in the high beam position, the instrument cluster high beam indicator turns on.

Chevrolet

When the headlamp switch is turned to the PARK or HEAD position, battery voltage is applied to the headlamp dimmer switch. When the headlamp dimmer switch is in the low beam position, battery voltage is applied to the low beam headlamps. When the headlamp dimmer switch is moved to the high beam position, the low beam headlamps turn off. Voltage is now applied to the high beam headlamps, and the instrument cluster high beam indicator turns on.

Daytime Running Lamps (DRL) Ambient Light Sensor

The DRL ambient light sensor is a light sensitive variable resistor. The resistor of the DRL ambient light sensor decreases as the outside light intensity increases. The DRL module performs the following functions:

- Measures the voltage drop across the DRL ambient light sensor.
- Determines whether the DRL ambient light sensor should operate in the day mode or the low light mode.

Park Brake Input

The DRL module will not operate any headlamps or exterior lamps if the park brake is applied before the ignition switch is turned to the RUN position. This allows the driver to start the vehicle and keep the headlamps off, as long as the park brake is applied. The DRL module activates the headlamps when the park brake is released with the ignition switch in the RUN position. The headlamps will not turn off if the park brake is applied after the ignition switch is turned to the RUN position.

Headlights/Daytime Running Lights (DRL) Circuit Description (Scandinavia)

When the ignition switch is turned to the RUN position, battery voltage is supplied from the TURN B/U Fuse 2 to the headlamp switch and the DRL relay. Voltage is then applied at all times (when the ignition switch is in RUN) to the exterior lights. The LH positioning lamp, the license lamps, the RH side marker lamps, the tail lamps, and the tail/stop lamps turn on and stay on.

When the ignition switch is in the RUN position the DRL relay is energized. Voltage is applied to the low beam headlamps with the switch closed, turning the low beam headlamps on.

When the headlamp switch is moved from OFF to HEAD, voltage is no longer applied to the DRL relay. Voltage is now supplied to turn the high beam or the low beam headlamps on.

When the headlamp dimmer switch is in the high beam position, voltage is applied to the instrument cluster, turning the high beam indicator on.

Fog Lights Circuit Description

Front Fog Lamps: Chevrolet Domestic, Gulf States, Japan, Europe, Pontiac Domestic

With the headlamp switch in the HEAD or PARK position, voltage is applied to the fog lamp switch. When the fog lamp switch is closed, voltage is applied to the fog lamp relay (coil), energizing the relay as long as the headlamp dimmer switch is in the low beam position.

When the high beams are activated, ground is removed from the ground side of the fog lamp relay (coil), de-energizing the relay and turning off the fog lamps.

Rear Fog Lamps: Europe

With the headlamp switch in the HEAD position, voltage is applied to the rear fog lamp relay (switch). When the front foglamp switch is turned on, voltage is applied to the rear fog lamp relay (coil). When the rear fog lamp switch is turned on (closed), voltage is applied to the BCM. When the BCM receives this input ground, the BCM sends a ground signal to the rear fog lamp relay (coil). When the rear fog lamp relay receives this ground, the coil is energized, closing the internal switch. Voltage is supplied to turn on the rear fog lamps.

Headlight Doors Circuit Description (Pontiac)

When the headlamp switch is turned to the HEAD position, battery voltage is applied to the headlamp opening door actuator control module through circuit 10. Battery voltage is constantly applied to the headlamp opening door actuator control module from the LH HDLP DR MiniFuse® 15A and from the RH HDLP DR, MiniFuse® 15A. The headlamp opening door actuator control module is grounded by G106. The LH headlamp door opens when battery voltage is applied to the LH headlamp opening door motor through circuit 840, the headlamp opening door actuator control module, and circuit 576. Ground is applied through circuit 577. The RH headlamp door opens when battery voltage is applied to the RH headlamp door motor through circuit 740, the headlamp opening door actuator control module, and circuit 578. Ground is applied to circuit 579. When the headlamp switch is moved to the OFF position, battery voltage is no longer applied to the headlamp opening door actuator control module through circuit 10. The LH headlamp door closes when battery voltage is applied to the LH headlamp door motor through circuit 577 and ground is applied to circuit 576. The RH headlamp door closes when battery voltage is applied to the RH headlamp door through circuit 579 and ground is applied to circuit 578.

Headlight Leveling Circuit Description (Europe)

Voltage is supplied to the headlamp leveling switch and the headlamp leveling actuator motors through circuit 10 with the headlamp switch in the HEAD position. Ground is provided at all times to the headlamp leveling switch through G200, circuit 650, the leveling jumper resistor, and the headlamp leveling switch signal circuit.

The headlamp leveling switch provides 4 headlamp leveling positions. When a position is selected, a different resistance value is provided to the headlamp leveling actuator motors. The actuator motors have an internal motor logic driving a motor to move the headlamps based on the resistance it receives. Ground is provided through circuit 150 (left) and 250 (right) to the actuator motors at all times.

Exterior Lights Circuit Description (Pont, Chevy Domestic, Gulf States)

Daytime Running Lamps (Chevrolet Domestic, Gulf States, Pontiac Canada)

The daytime running lamps (DRL) module is designed to automatically operate the front park/turn lamps through the park lamp feed circuit and the low beam headlamps through the headlamp switch output circuit, depending on the outside light conditions. The DRL control module operates in 2 modes:

- The day mode allows the two front turn signal lamps to be on and non-flashing.
- The night mode allows the following components to be on:
 - Low beam headlamps
 - Front side marker lamps
 - Park/turn lamps
 - Tail lamps
 - License lamps
 - Tail/stop/turn lamps
 - Tail/stop lamps (Chevrolet)

The DRL module operates in the night mode when the DRL ambient light sensor senses darkness. When this happens, the night mode contacts close, and voltage is applied to the headlamps and the exterior lights through the same circuit path as when the headlamp switch is in the HEAD position.

The DRL module turns off the headlamps when the engine stalls with the DRL in the night mode. The side marker lamps, the park/turn lamps and the tail lamps are on while the engine is cranking. The headlamp switch operates as usual.

Daytime Running Lamps (DRL) Ambient Light Sensor Input

The DRL ambient light sensor is a light sensitive variable resistor. The DRL ambient light sensor decreases in resistance as outside light intensity increases. The DRL module measures the voltage drop across the DRL ambient light sensor. The DRL module then determines whether the day mode or the night mode should be in operation.

Daytime Running Lamps (Pontiac Domestic)

The daytime running lamps (DRL) module is designed to automatically turn on the low beam headlamps through the headlamp switch output circuit and the front park/turn lamps through the park lamp feed circuit when the following is true:

- The ignition switch is in the RUN position.
- The headlamps are off.
- The park brake is off.

The ambient light sensor is replaced by a jumper.

Park Brake Input

The DRL module will not operate any headlamps or exterior lamps if the park brake is applied before the ignition switch is turned to the RUN position. This allows the driver to start the vehicle and keep the headlamps off as long as the park brake is applied. The DRL module activates the headlamps when the park brake is released with the ignition switch in the RUN position. The headlamps will not turn off if the park brake is applied after the ignition switch is turned to the RUN position.

Front Park/Turn and Front Side Marker

Whenever the park lamps or the headlamps are on, voltage is applied from the TAIL LPS fuse 5 through the headlamp switch and the park lamp feed circuit to both the front side marker lamps and the front park/turn lamps.

Tail/Stop (Chevrolet), Tail/Stop/Turn (Pontiac), Rear Side Marker, Tail and License Plate Lamps

Voltage is applied at all times from the TAIL LPS fuse 5 to the headlamp switch and the daytime running lamps (DRL) module through circuit 240. Voltage is applied to the park lamp feed circuit when the headlamp switch is in the PARK or the HEAD position. Voltage then flows to all tail/stop lamps (Chevrolet), the tail/stop/turn (Pontiac) lamps, the rear side marker lamps, the tail lamps, and the license plate lamps, turning them on.

Turn Signal Lamps

Voltage is applied from the TURN B/U fuse 2 to the normally closed pole of the turn/hazard switch assembly (turn signal switch) when the ignition is in the RUN position. The voltage then flows through circuit 141 to the turn signal lamp flasher. Current flow heats the timing element in the turn signal lamp flasher causing the timing element to continuously open and close.

With the turn signal switch in the left turn position, voltage is applied through two circuits. Voltage flows through the left turn signal switch output circuit at terminal H of harness connector C216 and the left rear stop/turn lamp feed circuit at terminal M of C216. Voltage also flows through the left rear stop/turn lamp feed circuit to the left rear turn signal lamp. Voltage flows through the left turn signal switch output circuit to the instrument cluster for the left turn indicator and to the daytime running lamps module. Voltage then flows through the left front turn signal lamp feed circuit to the left front turn signal lamp.

Voltage for the right turn signal lamps flows through the right front turn signal switch output circuit terminal J of C216 and the right rear stop/turn lamp feed circuit terminal N of C216. Operation of the right turn signal lamp is similar to the left turn signal.

Tail/Stop/Turn Lamps

Voltage is applied when the ignition is in the RUN position through the TURN B/U Fuse in the fuse block, to the turn signal lamp flasher through circuit 141.

Voltage is then applied from the turn signal lamp flasher to the turn/hazard switch assembly through the turn signal flasher output circuit. When the turn signal switch is placed in the left turn position, voltage is applied through the closed contacts of the turn signal switch to the left tail/stop/turn lamp through the left rear stop/turn lamp feed circuit. When the turn signal switch is placed in the TURN RIGHT position, voltage is applied through the closed contacts of the turn signal switch to the right tail/stop/turn lamp through the right rear stop/turn lamp feed circuit.

Hazard Lamps

Voltage is applied at all times from the STOP/HAZARD fuse 1 to the hazard lamp flasher through circuit 140. The current flow heats the timing element in the hazard lamp flasher. The voltage continuously opens and closes the hazard flasher output circuit to the turn/hazard switch and then to all the turn signal lamps and both of the turn telltale lamps. All of the turn signal lamps and both of the turn indicator lamps flash on and off.

Stop Lamps

Voltage is applied at all times from the STOP/HAZARD fuse 1 to the stop lamp/tcc switch through circuit 140. Voltage is applied from the stop lamp/tcc switch through the stop lamp feed circuit to the left and the right tail/stop lamps (Chevrolet) or the tail/stop/turn lamps (Pontiac) and the center high mounted stop lamp (CHMSL) when the brake pedal is depressed.

Exterior Lights Circuit Description (Japan, Europe, Scandinavia)

Daytime Running Lamps (Scandinavia)

When the ignition switch is turned to the RUN position, voltage is supplied from the TURN B/U Fuse 2 through circuit 141 to the headlamp switch and the DRL relay. Through the headlamp switch, voltage is applied when the ignition switch is in the RUN position through the park lamp feed circuit to the exterior lights. The left positioning lamp, the license lamps, the right side marker lamp, the taillamps, and the tail/stop lamps turn on and stay on.

License, Tail, Tail/Stop Lamps

Whenever the park lamps or the headlamps are on, voltage is applied from the TAIL LPS fuse 5 through the headlamp switch and the park lamp feed circuit to the license lamps, the tail lamps, the tail/stop/turn lamps, the left positioning lamp (Europe), the right side marker lamp, and the park/turn lamps (Japan).

Turn Signal Lamps

Voltage is applied from the TURN B/U fuse 2 to the turn signal lamp flasher through circuit 141 when the ignition switch is in the RUN position. Current flow heats the timing element in the turn signal lamp flasher causing the timing element to continuously open and close. When the turn signal switch is moved to the turn left position, voltage is applied to the left front turn signal lamp feed circuit (Europe) or the left park lamp feed circuit (Japan) and the left rear stop/turn lamp feed circuit.

Voltage flows through the left front turn signal lamp feed circuit to the instrument cluster for the left turn indicator, to the side marker lamp, to the park/turn lamp, and to the tail/stop/turn lamp (Japan).

Voltage also flows through the left rear stop/turn lamp feed circuit to the left tail/stop/turn lamp (Europe) or through the left park lamp feed circuit to the park/turn lamp (Japan). Voltage for the right turn signal lamps flows through the right front turn signal lamp feed circuit (Europe) or the right park lamp feed circuit (Japan) and the right rear stop/turn lamp feed circuit. Operation of the right turn signal is similar to that of the left turn signal.

Tail/Stop/Turn Lamps

Voltage is applied when the ignition is in the RUN position through the TURN B/U Fuse 2 to the turn signal lamp flasher through circuit 141. Voltage is then applied from the flasher to the turn/hazard switch assembly through the turn signal flasher output circuit. When the turn signal switch is placed in the left turn position, voltage is applied through the closed contacts of the turn signal switch to the left tail/stop/turn lamp through the left rear stop/turn lamp feed circuit (Europe) or through the left front turn signal lamp feed circuit (Japan). When the turn signal switch is placed in the right turn position, voltage is applied through the closed contacts of the turn signal switch to the right tail/stop/turn lamp through the right rear stop/turn lamp feed circuit (Europe) or the right front turn signal lamp feed circuit (Japan).

Hazard Lamps

Voltage is applied at all times from the STOP/HAZARD fuse 1 to the hazard lamp flasher through circuit 140. The current flow heats the timing element in the hazard lamp flasher. The voltage continuously opens and closes the hazard flasher output circuit to the turn/hazard switch assembly and then to the side marker lamps, the park/turn lamps, and the tail/stop/turn lamps and both of the turn signal indicator lamps in the instrument cluster. All of the turn signal lamps and both of the turn telltale lamps flash on and off.

Stop Lamps

Voltage is applied at all times from the STOP/HAZARD fuse 1 to the stop lamp/tcc switch through circuit 140. Voltage is applied from the stop lamp/tcc switch through the stop lamp feed circuit to turn on the left and right tail/stop lamps and the center high mounted stop lamp (CHMSL) when the brake pedal is depressed.

Backup Lights Circuit Description

With the ignition switch in the RUN position, voltage is applied through the TURN B/U Fuse 2 to the backup lamp switch (manual transmission) or the park/neutral position switch (automatic transmission) through circuit 141. When either transmission is shifted into reverse, voltage is applied through the back-up lamp feed circuit to the backup lamps to turn them on.

Interior Lights Circuit Description**Body Control Module**

The body control module (BCM) controls the interior lights based on inputs it receives from the following switches:

- The right and left side door lock switches
- The IP dimmer switch
- The rear compartment lid ajar indication switch

Dome Lamp, Courtesy Lamps and Reading Lamps

Voltage is applied through circuit 149 from the BCM to the following lamps on coupes:

- The dome lamp
- The inside rearview mirror courtesy/reading lamps

Voltage is applied through circuit 149 from the BCM to the following lamps on convertibles:

- The right and left rear courtesy lamps
- The rear compartment lamp
- The inside rearview mirror courtesy/reading lamps

The BCM provides a ground through circuit 156 and the lamps illuminate when the following actions occur:

- The driver door is opened
- The rear compartment is opened
- The IP dimmer switch is moved to the on position
- The vehicle is unlocked using the keyless entry function

The inside rearview mirror contains switches which provide ground through circuit 750 to allow manual operation of the reading lamps.

IP Compartment Lamp

Ground is applied from G200 through circuit 650 to the IP compartment lamp. When the IP compartment door is opened, voltage is applied by the BCM through circuit 149 to the IP compartment lamp.

Delayed Illumination

The BCM keeps the interior lights on for approximately 25 second after the doors and rear compartment are closed. The BCM gradually decreases the voltage on circuit 149 until the lamps are off. The lamps immediately go out under either of the following conditions:

- The ignition switch is turned to the run or start position.
- The vehicle doors are locked.

Exit Lighting

The BCM illuminates the courtesy lamps for approximately thirty seconds after the ignition key is removed from the ignition switch. The lamps immediately go out under either of the following conditions:

- The ignition key is reinserted into the ignition switch.
- The vehicle doors are locked.

Illuminated Entry

When the remote control door lock transmitter is used to access the vehicle, the BCM applies voltage through circuit 149 to the interior lights. The lights remain illuminated for approximately 40 seconds or until the ignition is turned to the start position.

Inadvertent Power Control

The BCM turns off lamps that are left on to conserve battery power. The BCM removes voltage from circuit 149 and all lamps are turned off 10 minutes after the ignition switch is turned to the off position. After the 10 minute period, the BCM turns the lamps back on under any of the following conditions:

- Either door is opened.
- The rear compartment is opened.
- The IP compartment is opened.
- Either of the courtesy/reading lamp switches are turned on.
- The remote control door lock transmitter is used to perform any function.

Interior Lights Dimming Circuit Description

Circuit Operation

The IP dimmer switch controls the brightness of the following components:

- The incandescent illumination lamps of the instrument cluster.
- The vacuum fluorescent (VF) displays of the radio.

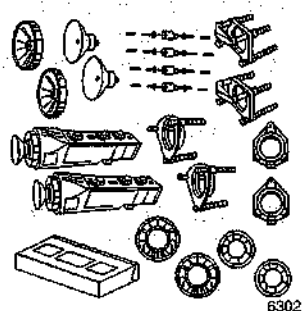
Incandescent Dimming

When the headlamp switch is in the PARK position or the HEAD position or the vehicle is in a low light condition with DRL active, voltage is applied through circuit 9 to the IP dimmer switch. Voltage from the IP dimmer switch is applied through circuit 44, the IP dimmer fuse and circuit 8 to the incandescent lamps. Turning the IP dimmer switch changes the voltage on circuit 8 which varies the intensity of the lamps.

Vacuum Fluorescent Dimming

When the headlamp switch is in the PARK position or the HEAD position or the vehicle is in a low light condition with DRL active, voltage is applied through circuit 9 to the IP dimmer switch. Voltage from the IP dimmer switch is applied through circuit 44, the IP dimmer fuse and circuit 8 to the radio VF display. The radio VF display dims for night viewing. Turning the IP dimmer switch changes the voltage on circuit 8 which varies the intensity of the radio VF display.

Special Tools and Equipment

Illustration	Tool Number/ Description
	J 25300-E Headlamp Aimer