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2015

Impala Police Package



2015 Chevrolet Impala Police Package

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The information in this manual supplements the owner manual. This manual describes features that may or may not be on the vehicle because of optional equipment that was not purchased on the vehicle, model variants, country specifications, features/applications that may not be available in your region, or changes subsequent to the printing of this owner manual.

Refer to the purchase documentation relating to your specific vehicle to confirm the features.

Keep this manual in the vehicle for quick reference.

Using this Supplement

This supplement contains information specific to the unique components of the vehicle. It does not explain everything you need to know about the vehicle. Read this supplement along with the owner manual to learn about the vehicle's features and controls.

Index

A good place to look for what you need is the Index in back of this supplement. It is an alphabetical list of what is in the supplement, and the page number where you will find it.

Keys, Doors, and Windows

Keys and Locks

Specific Cylinder Unit for Single Key - Random Code System 2-1

Keys and Locks

Specific Cylinder Unit for Single Key - Random Code System

If the vehicles are equipped with one of these options, the entire fleet of vehicle locks can be operated with one key.

- SEO 6E2-Specific Fleet Key Code
- SEO 6E8-Specific Fleet Key Code

The vehicle will be equipped with a standard production random key code if one of the optional fleet codes was not ordered.

For specific key code information, contact your dealer.

The vehicle will be equipped with a key cylinder in the ignition lock, the driver door, and trunk lid. Remote Keyless Entry (RKE) is a standard feature and operates all doors and the trunk lid. Six additional RKE

transmitters may have been ordered with your vehicle. See your dealer for additional information regarding availability of more RKE units for the vehicle.

The RKE transmitter for the police vehicle has the vehicle locator/panic alarm button disabled. The horn will not sound and the exterior lights will not flash when the button is pressed.

Remote Keyless Entry Transmitter Programming – SEO AMF

Do not operate or program the transmitters in the vicinity of other vehicles that are in the keyless entry program mode. This prevents the programming of the transmitters to the incorrect vehicle.

Up to eight transmitters may be programmed to the RKE on police package equipped vehicles.

2-2 Keys, Doors, and Windows

Verify that the proper transmitters are learned to the vehicle. Do not learn a transmitter with a remote start button to a vehicle that does not have remote start.

For the proper procedure to be used for learning transmitters, see *Driver Information Center (DIC) on page 5-4*.

Trunk Lid Keylock Cylinder

The vehicle has a keylock cylinder in the trunk lid.

If the vehicle is equipped with the theft-deterrent system (Option UA6), an audible alarm will occur when the key is used to open the trunk instead of the RKE transmitter. See your dealer to disable the audible alarm.

Seats and Restraints

Airbag System

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 Airbags and Specialty Law
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Airbag System

Questions and Answers About Airbags and Specialty Law Enforcement Vehicles

Q: Can equipment such as radar devices, video cameras, and radio trees be mounted in a specialty vehicle equipped with a front outboard passenger frontal airbag?

A: Yes, but care must be taken to properly mount the equipment outside of the airbag “deployment zone.”

Q: What is the airbag “deployment zone”?

A: The term “deployment zone” describes the space an airbag takes up when fully inflated. Airbags need room to work properly, and anything in the “deployment zone” — such as

improperly mounted equipment — can greatly affect the performance of the airbag.

⚠ Warning

Airbags inflate with great force, faster than the blink of an eye. No objects, such as shotguns, should be placed over or near the airbag covers. Equipment mounted too close to an inflating airbag could prevent the airbag from operating properly to protect the occupants or could be forced into an occupant or break and become a dangerous projectile, causing severe injury or even death. To help prevent injury and to allow the airbag to perform as it was designed, do not mount equipment inside the airbag deployment zones.

3-2 Seats and Restraints

Q: How can I identify the airbag “deployment zone” in my vehicle?

A: See *Airbag Deployment Diagrams* on page 3-4 for more information. The diagrams provide the approximate dimensions of the “deployment zones” for your specialty vehicle. Before doing any service work, including the installation of any equipment, consult the appropriate service manual.

Q: Is it possible to shield equipment so it does not interfere with airbag deployment?

A: While shielding may protect certain equipment from being damaged or dislodged, it may also negatively affect how an airbag inflates. Therefore, we cannot recommend the placement of any equipment in the deployment zone, even when shielding.

Q: Can the installation of push bumpers on the front end of the vehicle affect the deployment of the airbag?

A: General Motors is not aware of adverse effects during crash events from the many push bumpers that have been installed on GM police vehicles. Because there are many styles of push bumpers available with varying crash characteristics, installation of push bumpers may or may not affect deployment timing of the airbags. Push bumpers should be mounted to avoid modifying the vehicle structure and interfering with the front airbag sensors mounted on the upper radiator support cross member. Two front impact sensors are installed in GM vehicles. Do not relocate or disconnect the front sensors. The location and orientation of the front sensors are critical for correct operation of the airbag system. Avoid mounting

components on or near the sensors. Push bumper styles with vertical pushing members that are in fore-aft alignment with the front airbag sensors are not recommended.

See “Adding Equipment to the Airbag-Equipped Vehicle” in the owner manual for more information.

Customer-Installed Equipment

Before installing equipment, read the following.

 **Caution**

GM approved service procedures must be followed to remove and reinstall the instrument panel to the pad to ensure proper airbag deployment.

 **Caution**

Equipment mounted to the instrument panel top pad must not exceed 3.6 kg (8.0 lbs).

 **Caution**

In order not to restrict upward movement of the driver side instrument panel top pad when the airbag deploys, equipment should be securely mounted only to the top pad.

 **Caution**

Do not place equipment on the passenger side of the instrument panel top pad because the edge of it rises when the airbag deploys.

 **Caution**

Do not mount equipment on the passenger side of the instrument panel top pad deployment zone. Equipment should not be mounted on or around the passenger airbag opening because of a deploying airbag. To allow the airbag to perform as it was designed, do not mount equipment inside the airbag deployment zone.

 **Caution**

Passenger airbag contacts inside rearview mirror at the beginning of deployment. Video cameras and other small equipment should be securely mounted outside the airbag zone.

 **Caution**

The police vehicle has roof-rail airbags. Do not mount a security barrier such that the ends of the barrier or brackets are within the roof-rail deployment zones.

 **Caution**

Avoid installing wiring for roof-rail emergency lighting or radio antennas that may restrict the proper deployment of the roof-rail airbags.

 **Caution**

The police vehicle has seat-mounted side impact airbags for the driver and passenger front seat positions. Restricting the

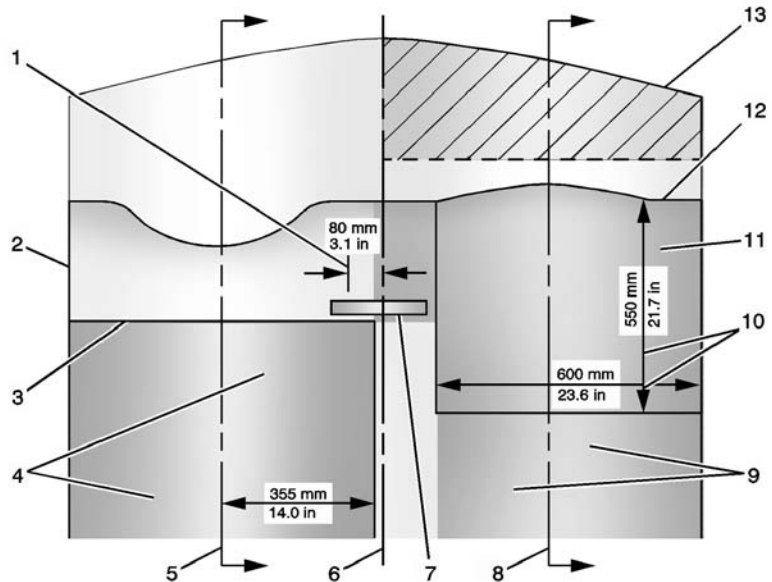
(Continued)

3-4 Seats and Restraints

Caution (Continued)

cover from opening prevents proper deployment of the seat-mounted side impact airbag. Do not cover or restrict the seat-mounted side impact airbag cover on the outboard side of the seatback.

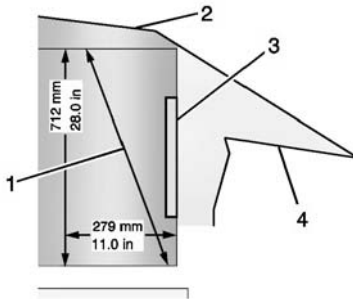
Airbag Deployment Diagrams



Instrument Panel Top View – Approximate Airbag Deployment Zone

1. Shift Selector Arc
2. Driver Side Door
3. Front of Steering Wheel (In Maximum Downward Position)
4. Driver Airbag Deployment Zone
5. Driver Centerline (Also See Side View)
6. Vehicle Centerline
7. Inside Rearview Mirror
8. Passenger Centerline (Also See Side View)
9. Passenger Airbag Deployment Zone
10. Approximate Maximum Dimension of Inflated Airbag
11. Passenger Side Door
12. Rear Edge of Instrument Panel Top Pad
13. Zone from Instrument Panel Top to Windshield

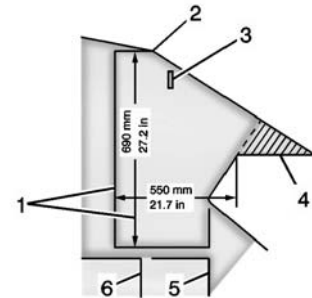
See *Customer-Installed Equipment* on page 3-2.



Side View of Driver Side Airbag Deployment Zone – Centerline of Driver

1. Driver Airbag Deployment Zone
2. Top of Windshield
3. Front of Steering Wheel (Maximum Downward Position)
4. Top of Instrument Panel

See *Customer-Installed Equipment* on page 3-2.

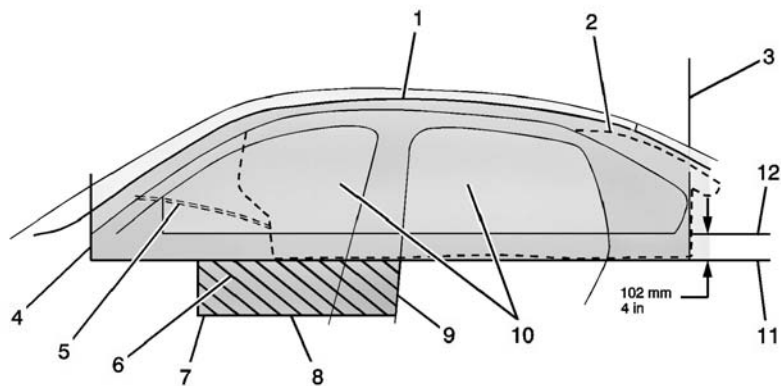


Side View of Passenger Side Airbag Deployment Zone – Centerline of Passenger

1. Passenger Airbag Deployment Zone
2. Top of Windshield
3. Inside Rearview Mirror
4. Top of Instrument Panel
5. Passenger Seat in Foremost Position
6. Passenger Seat in Rearmost Position

See *Customer-Installed Equipment* on page 3-2.

3-6 Seats and Restraints

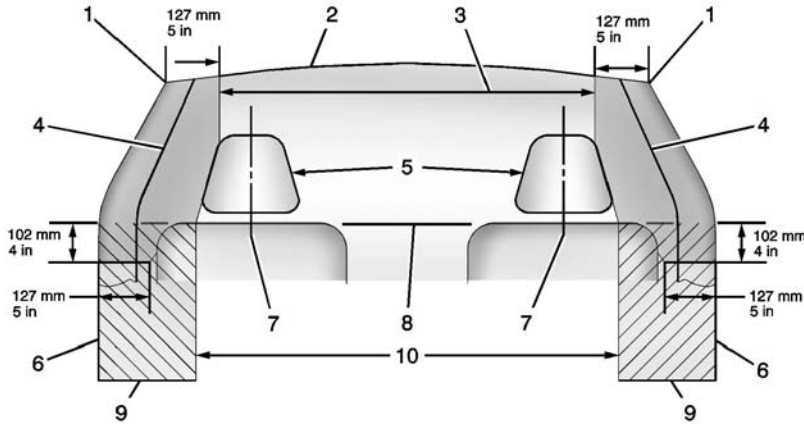


8. Groove in Front Door Armrest
9. Pillar Trim
10. Approximate Shape of Deployed Airbag at Maximum Size
11. Bottom of Deployment Zone
12. Bottom of Door Windows

See *Customer-Installed Equipment* on page 3-2.

Roof Rail and Seat-mounted Side Impact Airbags Maximum Deployment Zone – Driver Side Shown, Passenger Side Similar

- | | |
|--|--|
| 1. Top of Deployment Zone – Along Roof Rail at Edge of Headliner | 4. Front of Deployment Zone – At Front of Outside Mirror Patch |
| 2. Airbag Inflator Location on Sail Panel | 5. Forward Airbag Tether Line |
| 3. Back of Deployment Zone – At Rear of Quarter Window | 6. Seat-mounted Side Impact Airbag Deployment Zone |
| | 7. Door Handle Front End |



Roof Rail and Seat-mounted Side Impact Airbags Driver and Passenger Deployment Zones – View from Rear Seat

- | | |
|--|---|
| <ul style="list-style-type: none"> 1. Edge of Headliner 2. Underside of Headliner 3. Roof Rail Airbag Deployment Zone 4. Inner Center Pillar Trim 5. Headrest | <ul style="list-style-type: none"> 6. Inner Door Pad 7. Seat Centerline 8. Bottom of Door Windows 9. Groove in Front Door Armrest |
|--|---|

10. Seat-mounted Side Impact Airbag Deployment Zone – Front Seat

See *Customer-Installed Equipment* on page 3-2.

Instruments and Controls

Warning Lights, Gauges, and Indicators

- Instrument Cluster 5-2
- Electronic Stability Control (ESC) Off Light 5-3

Information Displays

- Driver Information Center (DIC) 5-4

Vehicle Messages

- Ride Control System Messages 5-5

Warning Lights, Gauges, and Indicators

Instrument Cluster



English Certified Cluster, Metric Similar

The words CERTIFIED SPEEDOMETER will flash in the Driver Information Center (DIC) display for approximately two seconds when the engine is started. The DIC can be set to display digital vehicle speed while the vehicle is being driven. See *Driver Information Center (DIC)* on page 5-4.

Electronic Stability Control (ESC) Off Light



This light comes on briefly while starting the engine.

If it does not, have the vehicle serviced by your dealer. If the system is working normally, the indicator light then goes off.

To turn off the ESC system, press and briefly hold the ESC OFF button until STABILITRAK OFF is displayed on the Driver Information Center (DIC) and the ESC OFF light comes on.

See *Ride Control System Messages* on page 5-5.

If the TCS/ESC system is off, the system does not assist in controlling the vehicle. Turn on the TCS/ESC system and the indicator light turns off.

See *Traction Control/Electronic Stability Control* on page 9-2.

Performance Mode



When the ESC OFF button is pressed, the ESC OFF light comes on and PERFORMANCE MODE displays in the DIC.


The traction control system is still active, but limited to driveline protection only. ESC is also active, but is limited to high-speed pursuit purposes.

See the owner manual for more information.

Information Displays

Driver Information Center (DIC)


Trip/Fuel Menu Items

 (Trip/Fuel): Press this button to scroll through the following menu items:

Digital Speedometer

The speedometer shows how fast the vehicle is moving in either kilometers per hour (km/h) or miles per hour (mph). The speedometer cannot be reset.


Vehicle Information Menu Items


 (Vehicle Information): Press this button to scroll through the following menu items:

Relearn Remote Key

To access this display, the vehicle must be in P (Park). This display allows you to match the Remote Keyless Entry (RKE) transmitter to the vehicle. This procedure will erase all previously learned transmitters. Therefore, they must be relearned as additional transmitters.

To match an RKE transmitter:

1. Press  until PRESS TO RELEARN REMOTE KEY displays.

2. Press . REMOTE KEY LEARNING ACTIVE is displayed.
3. Press and hold the lock and unlock buttons on the first transmitter at the same time for about 15 seconds.

A chime will sound indicating that the transmitter is matched.
4. To match additional transmitters at this time, repeat Step 3.

Each vehicle can have a maximum of eight transmitters matched to it.
5. To exit the programming mode, you must cycle the key to LOCK/OFF.

Vehicle Messages

Ride Control System Messages

PERFORMANCE MODE

This message displays when the ESC OFF button is pressed once. See *Traction Control/Electronic Stability Control on page 9-2*.

Lighting

Exterior Lighting

Exterior Lamp Controls 6-1

Exterior Lighting

Exterior Lamp Controls

Police Package and Special Service Package

The following exterior lighting features apply to vehicles first sold in the United States.

The vehicle has Daytime Running Lamps (DRL) and an Automatic Headlamp System (AHS). The DRL and AHS can be turned to OFF with the headlamp switch when the transmission is in P (Park) and the engine is at idle. If the engine is not turned off, the DRL and AHS will remain OFF when the transmission is placed in gear. The vehicle may be driven with the lamps off for one ignition cycle.

The vehicle may have been built with SEO 9G8, DRL AND AHS DISABLE. This feature turns off DRL and AHS and requires manual

control of the exterior lighting. See your dealer to restore the DRL and AHS to normal operation.

For vehicles first sold in Canada, the DRL and AHS can be turned off if the transmission is in P (Park). See the owner manual.

Special Features

Police Package and Special Service Package

The following standard features are disabled in the Police Package and Special Service Package.

- Entry Lighting and Exit Lighting
- Remote Keyless Entry Feedback: Horn Beep and Lamps Flash
- Automatic Door Locking and Unlocking

Driving and Operating

Driving Information

Vehicle Load Limits 9-1

Starting and Operating

Fast Idle System 9-1

Ride Control Systems

Traction Control/Electronic
Stability Control 9-2

Towing

Trailer Towing 9-4

Driving Information

Vehicle Load Limits

Impala police vehicles may have a full-size spare tire. If the full-size spare tire is stored in the trunk of the vehicle, do not carry more than 64 kg (141 lbs) in the trunk. See "Vehicle Load Limits" in the owner manual.

Starting and Operating

Fast Idle System

While parked with the engine idling for an extended period, turn off the following factory equipment if emergency lighting and communication equipment are operating:

- Air Conditioner
- Fan
- Rear Window Defogger
- Factory Audio System

When the automatic transmission is in P (Park), the driver's foot is off the brake, and the emergency equipment is turned on, the engine rpm may increase to 1200 rpm to keep the electrical power of the vehicle at a steady rate. Even with the extra power boost, the vehicle may stall after long periods of time with a heavy electrical load.

See "Running the Vehicle While Parked" in the owner manual.

Ride Control Systems

Traction Control/ Electronic Stability Control

System Operation

The vehicle has a Traction Control System (TCS) and an Electronic Stability Control (ESC) system. These systems help limit wheel slip and assist the driver in maintaining control, especially on slippery road conditions.

TCS activates if it senses that any of the drive wheels are spinning or beginning to lose traction. When this happens, TCS applies the brakes to the spinning wheels and reduces engine power to limit wheel spin.

ESC activates when the vehicle senses a difference between the intended path and the direction the vehicle is actually traveling. ESC selectively applies braking pressure to any one of the vehicle wheel

brakes to assist the driver in keeping the vehicle on the intended path.

If cruise control is being used and TCS or ESC begins to limit wheel spin, cruise control will disengage. Cruise control may be turned back on when road conditions allow.


Both systems come on automatically when the vehicle is started and begins to move. The systems may be heard or felt while they are operating or while performing diagnostic checks. This is normal and does not mean there is a problem with the vehicle.


It is recommended to leave both systems on for normal driving conditions, but it may be necessary to turn TCS off if the vehicle gets stuck in sand, mud, ice, or snow. See "If the Vehicle is Stuck" under "Driving" in the owner manual and "Turning the Systems Off and On" later in this section.




The indicator light for both systems is in the instrument cluster. This light will:

- Flash when TCS is limiting wheel spin.
- Flash when ESC is activated.
- Turn on and stay on when either system is not working.

If either system fails to turn on or to activate, a message displays in the Driver Information Center (DIC), and  comes on and stays on to indicate that the system is inactive and is not assisting the driver in maintaining control. The vehicle is safe to drive, but driving should be adjusted accordingly.

If  comes on and stays on:

1. Stop the vehicle.
2. Turn the engine off and wait 15 seconds.
3. Start the engine.

Drive the vehicle. If  comes on and stays on, the vehicle may need more time to diagnose the problem. If the condition persists, see your dealer.



Turning the Systems Off and On





The TCS/ESC button is on the instrument panel.


Caution


Do not repeatedly brake or accelerate heavily when TCS is off. The vehicle driveline could be damaged.


To turn off TCS and ESC, press and hold the  button briefly. The ESC Off light  comes on in the instrument cluster and TRACTION CONTROL OFF and STABILITRAK OFF display in the DIC. See “Ride Control System Messages” under “Vehicle Messages” in the owner manual.

When the  button is pressed, the ESC Off light  comes on in the instrument cluster and PERFORMANCE MODE displays in the DIC. See *Ride Control System Messages on page 5-5*. TCS is still active, but limited to driveline protection only. ESC is also active, but is limited to high speed pursuit purposes.

9-4 Driving and Operating

If TCS is limiting wheel spin when the  button is pressed, the system will not turn off until the wheels stop spinning.

To turn TCS and ESC on again, press and release the  button.

The ESC Off light  will turn off in the instrument cluster and TRACTION CONTROL ON displays in the DIC. See “Ride Control System Messages” under “Vehicle Messages” in the owner manual.

Adding accessories can affect the vehicle performance. See “Accessories and Modifications” under “General Information” in the owner manual.

Towing

Trailer Towing

Impala police vehicles are not intended to tow a trailer.

Vehicle Care

Vehicle Checks

Brakes 10-1

Wheels and Tires

Tire Pressure Monitor
System 10-1
Compact Spare Tire 10-2
Full-Size Spare Tire
(SEO N81) 10-3

Vehicle Checks

Brakes

All Impala police vehicles have the Antilock Brake System (ABS). Many of the components of the brake system used on the Impala police vehicle are unique to the vehicle. Before doing any service work, consult the appropriate service manual.

See “Brakes” in the owner manual for additional information on the brake system.

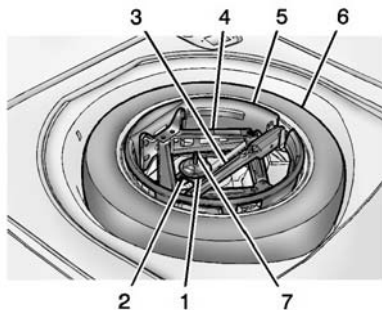
Wheels and Tires

Tire Pressure Monitor System

The Impala full-size spare includes a sensor for the Tire Pressure Monitor System (TPMS). The compact spare tire/wheel, which is standard with the Impala Police Package, does not include a TPMS sensor. The TPMS will not monitor or display the spare tire air pressure until the tire/wheel is installed at one of the four tire/wheel positions on the vehicle.

Once installed, the spare tire sensor code must be matched to the new position on the vehicle. See “Tire Pressure Monitor Operation” in the owner manual for information about matching the spare tire to the TPMS.

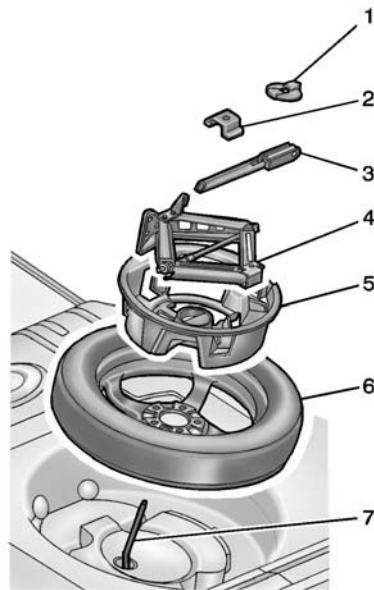
Compact Spare Tire



1. Retainer
2. Retainer Bracket
3. Wheel Wrench
4. Jack
5. Jack Container
6. Compact Spare Tire
7. Bolt Screw

Impala police vehicles may be equipped with a 17-inch compact spare tire instead of a full-size spare tire.

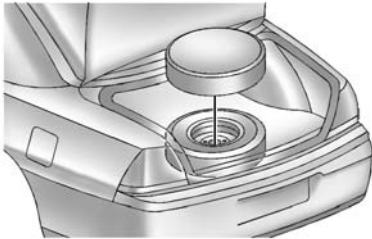
Refer to the following diagram as a guide for storing the compact spare tire in the trunk. For more information on spare tire storage and changing a flat tire, see "Tire Changing" in the Vehicle Care section of the owner manual.



Compact Spare Tire

1. Retainer
2. Retainer Bracket
3. Wheel Wrench
4. Jack
5. Jack Container
6. Compact Spare Tire
7. Bolt Screw

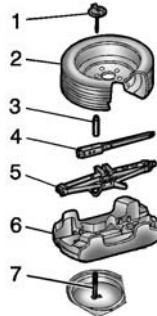
Full-Size Spare Tire (SEO N81)



Impala police vehicles may be equipped with a full-size spare tire. When the full-size spare tire option

is ordered, the tire is equipped with a vinyl cover and a surrounding trunk mat. See *Vehicle Load Limits on page 9-1* for more information.

Refer to the following diagram as a guide for storing the full-size spare tire in the trunk. For more information on spare tire storage and changing a flat tire, see "Tire Changing" in the Vehicle Care section of your owner manual.



Full-Size Spare Tire

1. Retainer
2. Full-Size Spare Tire

3. Extension Bolt Screw
4. Wheel Wrench
5. Jack
6. Foam Holder
7. Bolt Screw

Service and Maintenance

Recommended Fluids, Lubricants, and Parts

Maintenance Replacement
Parts 11-2

Recommended Fluids, Lubricants, and Parts

Maintenance Replacement Parts

Replacement parts identified below by name, part number, or specification can be obtained from your dealer.

Maintenance Replacement Parts

Part	GM Part Number	ACDelco Part Number
Engine Air Cleaner/Filter	10350737	A2962C
Engine Oil Filter	89017524	PF48
Passenger Compartment Air Filter	15284938	CF132
Spark Plugs	12622561	41-109
Wiper Blades		
Driver Side - 55.0 cm (21.7 in)	15941731	—
Passenger Side - 55.0 cm (21.7 in)	15941732	—

Special Equipment Options

SEO Standard Options

SEO Standard Options -	
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SEO Standard Options

SEO Standard Options - Police Package and Special Service Package

Caution

GM cannot be responsible for any changes made to the vehicle. Have all electrical and body modifications performed by experienced technicians.

- Be sure that any modified or added wiring will work properly with your vehicle's wiring system.
- See that all wiring is properly protected by fuses, and not causing an overload to connectors and components.

(Continued)

Caution (Continued)

- Do not route wiring in areas of the vehicle where temperatures can be high or where wiring may be cut, pinched, or rubbed.
- See that all added wiring is of the same or larger gauge than the wire it is being attached to for proper fuse protection.
- Be sure that all holes drilled in the body are properly sealed and corrosion protected. See that the vehicle's wiring harnesses, piping, and other components have not been displaced or damaged during customer installations of equipment and wiring.
- Do not route wiring or equipment which could interfere with roof-mounted

(Continued)

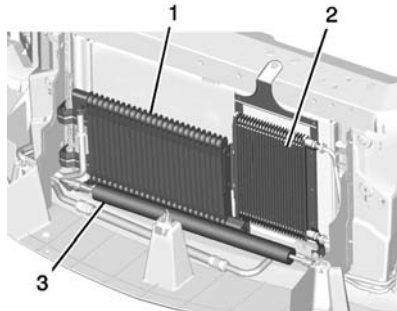
Caution (Continued)

side impact airbags. See *Airbag Deployment Diagrams on page 3-4*.

Caution

Overloading the vehicle's electrical system may damage your vehicle's accessories. Do not overload the vehicle's system by having unnecessary accessories on at the same time.

Power Steering/Engine Oil Cooling System

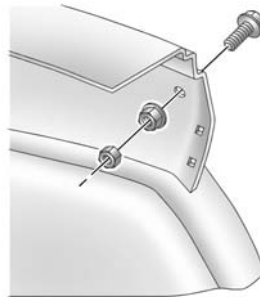


1. Engine Oil Cooler
2. Transmission Fluid Cooler
3. Power Steering Cooler

Your Impala police vehicle is equipped with auxiliary fin-type air-to-oil coolers mounted in front of the engine coolant radiator.

The auxiliary coolers are mounted separately, with the power steering cooler just below the engine oil cooler. The transmission fluid cooler is to the left of the engine oil cooler and is connected in series with the coolant radiator end-tank cooler.

Trunk Ground Stud

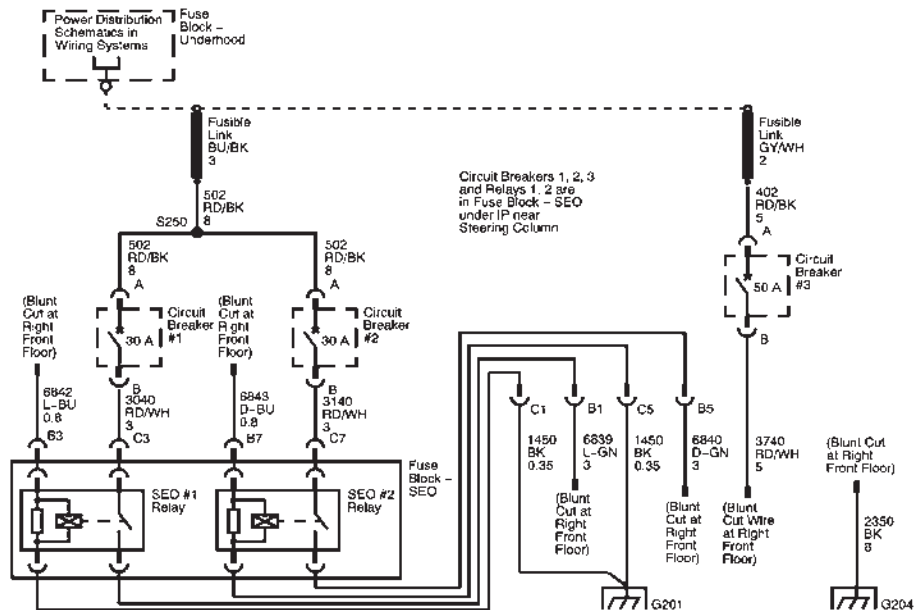


A 10 mm ground stud can be found in the trunk on the passenger side of the vehicle. The stud is located

above the trunk auxiliary junction block. See "Auxiliary Battery Power Junction Block" for more information on location. A 10 mm flanged hex nut grounds the 10 mm bolt to the vehicle. Recommended torque for the flanged nut is 35 N·m (26 lb ft), plus or minus 5 N·m (4 lb ft). A 10 mm hex nut is provided for customer ground termination. Recommended torque for the terminal connection nut is 10 N·m (7.3 lb ft), plus or minus 1.3 N·m (1 lb ft).

15-4 Special Equipment Options

Wiring Provisions for 12-Volt Battery Power Supply



Fuse RAP Instr.
Pnl Fuse Block
ACCY/RUN

643
YE
0.5



Fuse POWER DROP/CRANK
Underhood Fuse Block
START, RUN

739
PK
0.5



BCM
Park –
Enable

5810
YE/BK
0.5



ABS
Vehicle
Speed

818
BN
0.35



Blunt Cut at Right Front Floor
Ignition Controlled Power and Signals

15-6 Special Equipment Options

Battery power is supplied through two fusible links, one 50 amp and one 65 amp, to three circuit breakers and two control relays located in the relay center above the accelerator pedal. For location information, see "Servicing Relays and Circuit Breakers" following. A 50 amp circuit breaker feeds power directly from the 50 amp fusible link through a 5.0 mm² (10 gauge) blunt cut wire. Two 30 amp circuit breakers supply power from the 65 amp fusible link through the contacts of the control relays to 3.0 mm² (12 gauge) blunt cut wires. The blunt cut leads are part of a 1.5 m (5 ft) loop of wire coiled under the instrument panel in the front passenger side footwell.

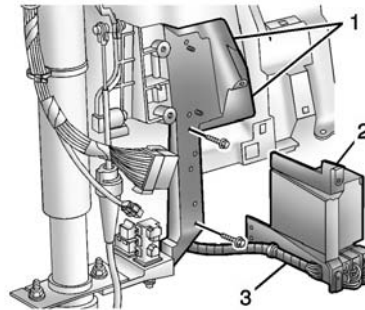
Each relay is operated by a 0.8 mm² (18 gauge) blunt cut, light or dark blue control lead included in the 1.5 m (5 ft) coil under the instrument panel. An 8.0 mm² (8 gauge) ground lead is also provided in the 1.5 m (5 ft) coil. The total current available through the 12-volt power supply is 110 amps (1320 watts).

Blunt cut ignition controlled power and signal circuits are also included in the following 1.5 m (5 ft) right foot loop:

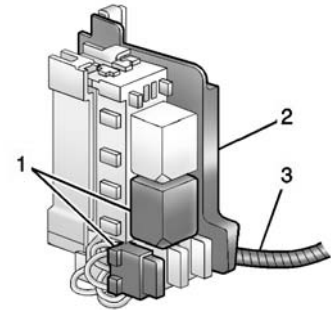
- A yellow, 0.5 mm² (20 gauge) 10 amp fused circuit, Hot in ACC/ACCESSORY, ON/RUN or RAP (Retained Accessory Power). The fuse for this circuit is labeled "RAP" and is located in the fuse block in the front passenger side instrument panel.
- A pink, 0.5 mm² (20 gauge) 10 amp fused circuit, hot in START and ON/RUN. The fuse for this circuit is labeled "PWR DROP/CRANK" and is located in the underhood fuse block in the engine compartment.
- A yellow/black, 0.5 mm² (20 gauge) transaxle park signal from the Body Control Module (BCM). The circuit provides a switched power when the transaxle is not in (P) PARK and the engine is running. The electrical load attached to the park circuit must not exceed 0.5 amps and is meant to drive one relay coil.
- A brown, 0.35 mm² (22 gauge) vehicle speed signal (4,000 pulses/mile) from the ABS module. Connect only high impedance load.

Servicing Relays and Circuit Breakers

The following diagrams show the locations of the relays and circuit breakers in the Fuse Block-SEO.



1. Instrument Panel Carrier
2. Relay Center for Circuit Breakers and Control Relay
3. Instrument Panel Harness Branch



Enlarged View of the SEO Fuse Block

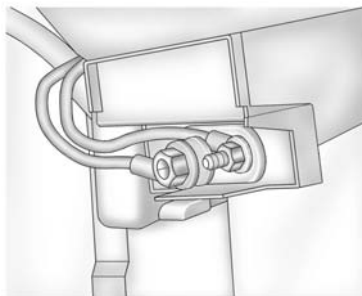
1. Relays and Circuit Breakers
2. Front of the Vehicle
3. Floor of the Vehicle

15-8 Special Equipment Options

Auxiliary Battery Power Junction Blocks

The auxiliary battery power junction block is mounted in the trunk of your Impala police vehicle. It is located on the passenger side support strut behind the rear wheel housing.

This junction block is split to provide two circuits and can be used to connect customer-furnished equipment directly to the battery through 8.0 mm² (8 gauge) body wiring and fusible links. A maximum of 100 amps (1200 watts) can be connected. Torque the connections to the studs to 15 N·m (11 lb ft). It is fed by two fusible links of 50 amps each.

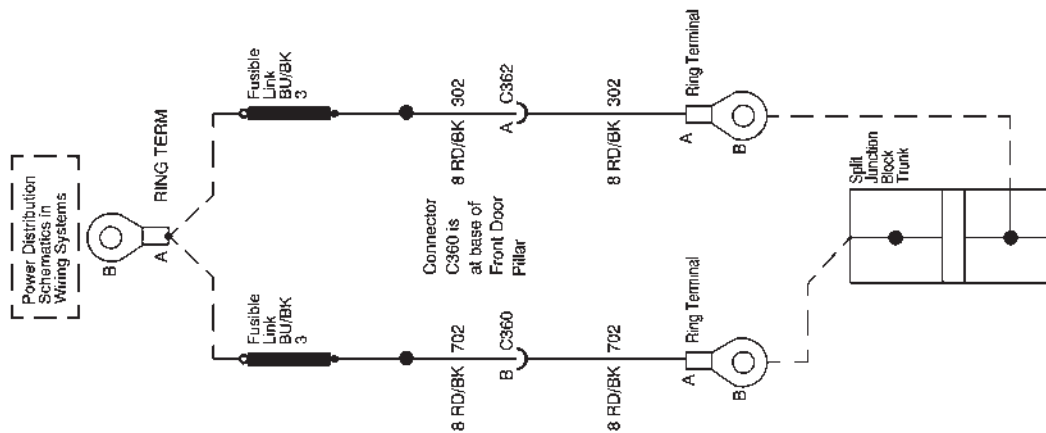


To connect the customer-furnished equipment at the junction block:

1. Disconnect the negative (-) battery cable.
2. Connect the customer-furnished equipment positive leads to the junction block terminals and tighten to 15 N·m (11 lb ft).

The ignition must be turned off and the vehicle vacated prior to connecting the negative (-) battery cable to the battery.

3. Reconnect the negative (-) battery cable to the battery.
4. Set the time on the clock and radio pushbuttons as needed. See “Infotainment System” in the owner manual.



Wiring Diagram for Trunk Auxiliary Battery Power Junction Block

Heavy Duty Cooling System

A high capacity radiator and fan replace the standard cooling system. Refer to the owner manual for more information on the cooling system.

Radios

Chime Level Adjustment

Impala police vehicles are equipped with a radio that provides an AM-FM stereo with a CD player. The radio produces the required warning chimes for the vehicle. The volume level of the chimes can be adjusted to be louder, but cannot be turned off.

The sound for the warning chimes is directed to the left front door speaker. When SEO WX7 (wiring provisions for the front speakers) is installed, the sound is directed to the left rear speaker.

See "Infotainment System" in the owner manual to adjust the chime volume or contact your dealer for assistance.

Radio Suppression

Impala police vehicles are equipped with spark plugs and spark plug wires designed to reduce radio interference noise levels which may affect communication equipment, including operating frequencies in the 38 MHz to 58 MHz range.

Seats

Impala SEO 9C1 police vehicles are equipped with high-density foam front seats that have security panels in the seatbacks and a high-density foam rear seat cushion and seatback.

Trunk Mat

A heavy duty vinyl mat covers the trunk floor in vehicles equipped with either a compact or full-size spare tire.

SEO Available Options

SEO Available Options - Police Package and Special Service Package



Caution

GM cannot be responsible for any changes made to the vehicle. Have all electrical and body modifications performed by experienced technicians.

- Be sure that any modified or added wiring will work properly with your vehicle's wiring system.
- See that all wiring is properly protected by fuses, and not causing an overload to connectors and components.

(Continued)

Caution (Continued)

- Do not route wiring in areas of the vehicle where temperatures can be high or where wiring may be cut, pinched, or rubbed.
- See that all added wiring is of the same or larger gauge than the wire it is being attached to for proper fuse protection.
- Be sure that all holes drilled in the body are properly sealed and corrosion protected. See that the vehicle's wiring harnesses, piping, and other components have not been displaced or damaged during customer installations of equipment and wiring.

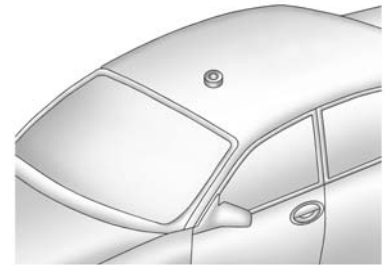
(Continued)

Caution (Continued)

- Do not route wiring or equipment which could interfere with roof-mounted side impact airbags. See *Airbag Deployment Diagrams on page 3-4*.

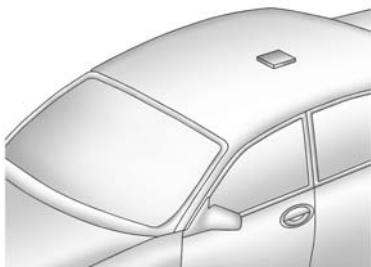
⚠ Caution

Overloading the vehicle's electrical system may damage your vehicle's accessories. Do not overload the vehicle's system by having unnecessary accessories on at the same time.

Auxiliary Dome Lamp - SEO 6C7

The auxiliary dome lamp has red LED/white incandescent lights and is located on the headliner between the driver and the front passenger seating positions. The button for this lamp is located at the rear base of the lamp. The lamp is wired independently. To operate the lamp, press the button. To turn the lamp off, press the button again.

Dome Lamp Inoperative Function - SEO 7Y6



This feature makes the dome lamp inoperative when a door is opened. The dome and courtesy lamps can only be controlled using the dome lamp button on the overhead console.

Inoperative Rear Door Handles - SEO 6B2

This feature makes the rear door handles inoperative. When the feature is enabled, the inside rear door handles are disconnected and the rear doors can only be opened from the outside.

Exterior Lamp Emergency Flashing System - SEO 6J7

SEO 6J7 provides a high-beam headlamps flashing module, rear lamps flashing, and control wire for a customer-furnished switch to turn the module on or off. The flasher control wire is coiled in the passenger side footwell under the instrument panel. This control lead may be combined with the interior wiring leads for SEO 6J3 when that option is ordered with SEO 6J7.

The headlamps flashing module is located at the inboard end of the passenger side headlamps assembly. The headlamps flashing module is activated by the application of 12 volts to a red/white wire coiled in the passenger side footwell. When activated, the driver and passenger side high-beam headlamps will flash alternately at 2.4 flashes per second.

Activation of the headlamp and rear lamp flashing can be separated by opening the dark-blue/yellow BCM circuit at the flasher module connector, C122-F, and applying a customer-switched ground to the harness side of the wire in the connector.

During daylight conditions, the Daytime Running Lamps (DRL) are automatically turned off whenever the headlamps flasher module is activated. During nighttime conditions, the low-beam headlamps turn on automatically while the high-beam headlamps flash. Turning on the high-beam headlamps manually with the turn signal lever will override the flashing module and the high-beam headlamps will operate continuously.

A fuse labeled HDLP MDL protects the flasher module circuit. This fuse is located in the underhood fuse block in the engine compartment on the passenger side of the vehicle. See "Fuses and Circuit Breakers" in the owner manual.

When the headlamps flashing module is turned on, the module sends a signal to the Body Control Module (BCM). The BCM alternately flashes the stoplamps and backup lamps. Pressing the brake pedal will override the stoplamp flashing and placing the transaxle in R (Reverse) will override the back-up lamp flashing.

When it is dark outside, the taillamps will turn on automatically. The Center High-Mounted Stoplamp (CHMSL) will not flash and will operate only when the regular brake pedal is pressed.

15-14 Special Equipment Options

				C122		
GROUND	1250	0.8 BLK	A			
LH HI BEAM	711	0.5 D-GN/WH	B	<< B	711	0.5 D-GN/WH
POWER *	2940	0.8 RD/WH	C			
RF HI BEAM	311	0.5 L-GN/BK	D	<< D	311	0.5 L-GN/BK
CONTROL	6820	0.35 D-GN/RD	E			
BCM	6841	0.5 D-BU/YE	F			

* FUSE "HDLP MDL", FUSE BLOCK, UNDERHOOD

Forward Lamp Harness In-Line Connector for use with Headlamps Flasher Module, Option 6J7

The connector is located on the back of the passenger side of the bumper beam.

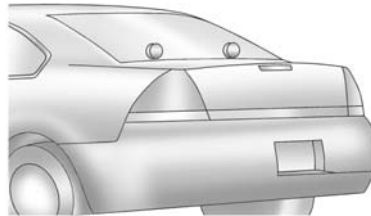
Heavy Duty Floor Covering - SEO 6A3

Impala police vehicles are equipped with carpet and carpeted floor mats. Optional heavy floor covering may replace the carpeting and floor mats.

Ignition Control Trunk Release - SEO A98

Operation of the trunk release occurs only when the key is in the ON/RUN position. Standard operation of the trunk release occurs only when the key is in the LOCK/OFF position. If not installed, ignition controlled trunk release can be enabled by your dealer.

Rear Panel Lamps - SEO 6J6



Two 10 cm (4 in) red single faced lamps are mounted behind the rear seatback to be viewed through the rear window. The lamps work as auxiliary turn signal lamps, stoplamps, and hazard warning

flashers. The wire to each lamp is extended to a loop with yellow (left) and green (right) wires coiled in the passenger side footwell. These loops allow customer installation of an in-line switch in each lamp circuit to disable the auxiliary lamp feature.

Rear Windows Inoperative - SEO 6N5

This feature makes the rear window switches inoperative. When the feature is enabled, the rear window switches are disconnected and the rear windows can only be operated from the driver window switch.

15-16 Special Equipment Options

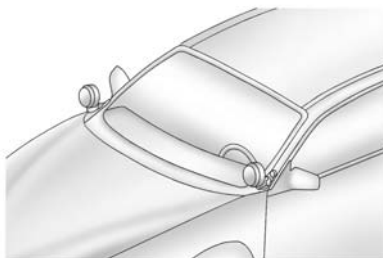
Inoperative Rear Door Locks - SEO 6N6

This feature makes the rear door locks inoperative. When the feature is enabled, the rear door lock switches are disconnected and the rear doors can only be locked or unlocked from the driver door lock switch.

Spotlamp - SEO 7X6

This option includes one pillar-mounted driver side halogen spotlamp. The spotlamp has a fuse located in the passenger side underhood fuse block.

Spotlamps - SEO 7X7

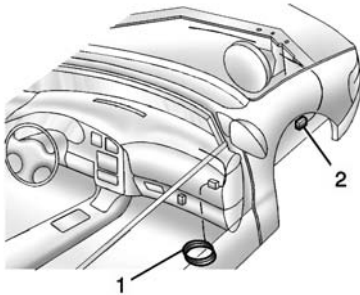


SEO 7X7 includes a driver and a passenger side spotlamp.

The spotlamp fuses are located in the passenger side underhood fuse block. See “Fuses and Circuit Breakers” in the owner manual.

For spotlamp bulb replacement procedures, see the appropriate section of the service manual.

Wiring Provisions for Vehicle Grille Lamps and Speaker/Siren - SEO 6J3



Alternating Signal Flasher

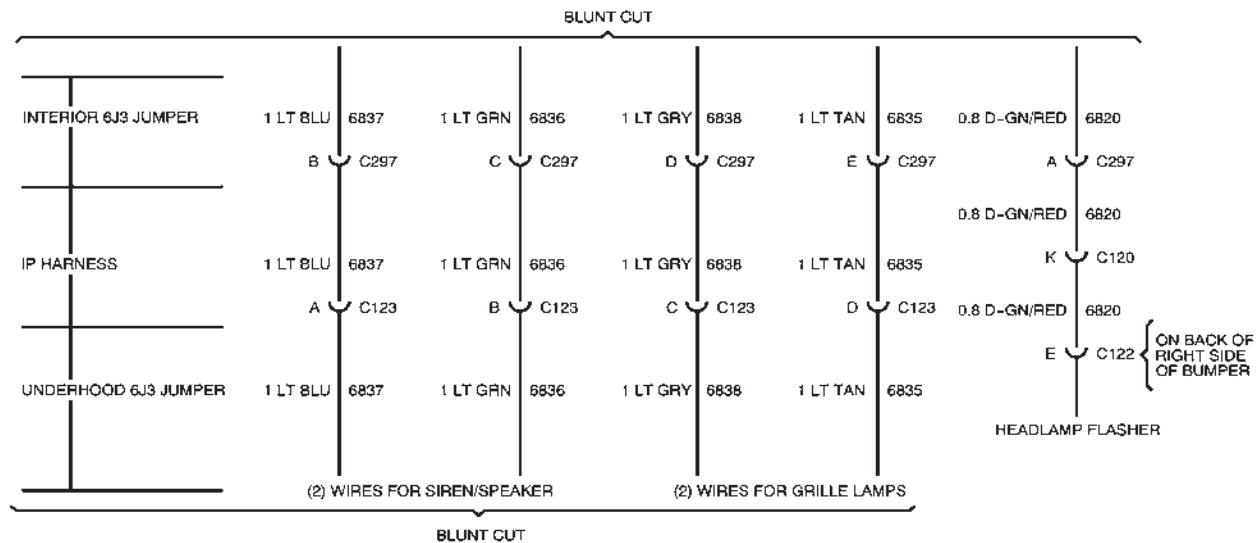
1. Blunt Cut Ends for the Customer-Furnished Grille Lamps and Customer-Furnished Siren/ Speaker
2. Control Wires from In-Line Connector in Forward Lamp Harness for Customer-Furnished Grille Lamps and Speaker

The SEO 6J3 wiring provision option consists of a 1.5 m (5 ft) wiring harness coiled underneath the instrument panel on the passenger side. The wiring circuits are routed from underneath the instrument panel to a 30 cm (1 ft) coil secured in the area behind the grille. There are four 1.0 mm² (16 gauge) wires for connecting to the grille lights (GRY, TAN) and siren speaker (LT BU, LT GN).

The SEO 6J3 wiring provision also includes one 0.8 mm² (18 gauge) control wire for the SEO 6J7 exterior lamps emergency flashing system.

When option SEO 6J7 is installed without option SEO 6J3, only the dark green/red control wire is provided for connection to customer-furnished 12-volt switching to turn the emergency flashing system on or off.

15-18 Special Equipment Options



Wiring Diagram for SEO 6J3 and SEO 6J7

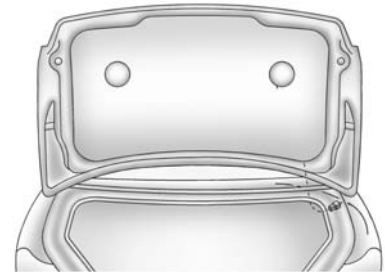
Spotlamp Provisions - SEO 7X8

This option includes a provision for the installation of a driver side pillar-mounted spotlamp. The provision includes a hole in the A pillar for spotlamp shaft routing, mounting bracket, and a power connector. The spotlamp wiring is powered by a fuse located in the passenger side underhood fuse block.

Spotlamp Provisions - SEO 7X9

This option includes provisions for the installation of driver and passenger side pillar-mounted spotlamps. The provision includes a hole in the A pillar for spotlamp shaft routing, mounting bracket, and a power connector. The spotlamp wiring is powered by fuses that are located in the passenger side underhood fuse block.

Trunk Lid Warning Lamps - SEO T53

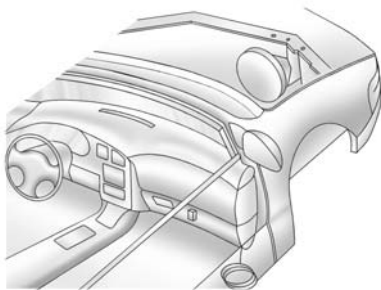


Two 10 cm (4 in) single faced lamps are mounted to the inside of the trunk lid. The lamps work while the trunk lid is opened. They are wired to flash alternately through a flasher located at the right front corner of the trunk opening.

Fuse for the trunk lid warning lamps is labeled HTDSEAT in the instrument panel fuse block.

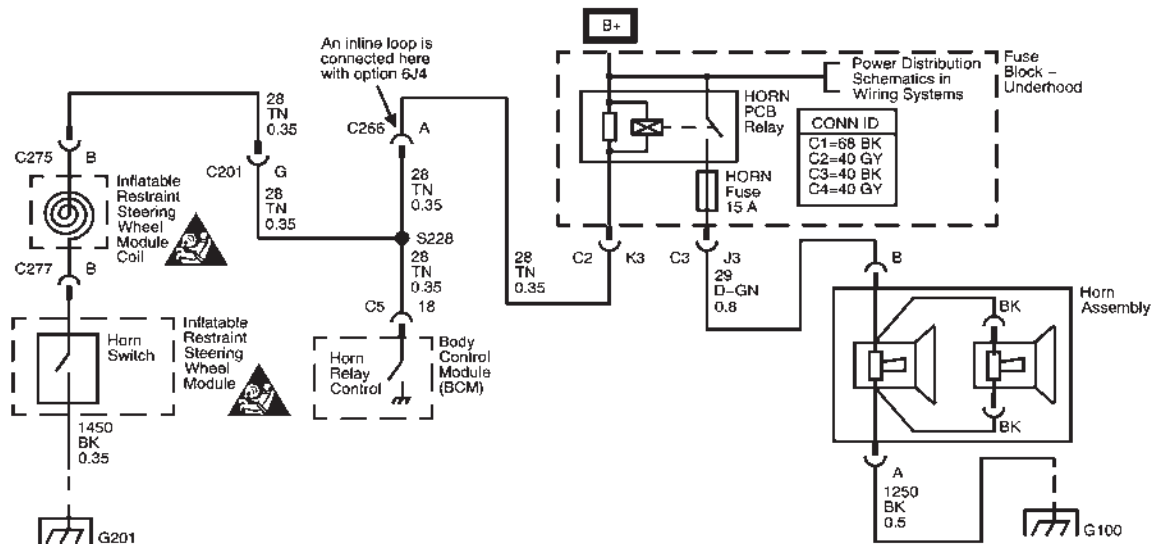
15-20 Special Equipment Options

Wiring Provisions for Horn/Siren Circuit - SEO 6J4



This provision permits customer connection of a switch to select either horn or siren operation when the horn pad is pressed.

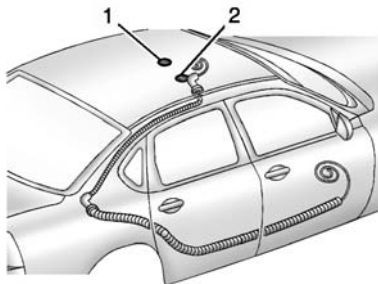
A 0.35 mm² (22 gauge) wire is connected to an in-line connector in the horn circuit of the instrument panel harness under the instrument panel. The end of this harness extension is in a 1.5 m (5 ft) loop of wire coiled under the instrument panel.



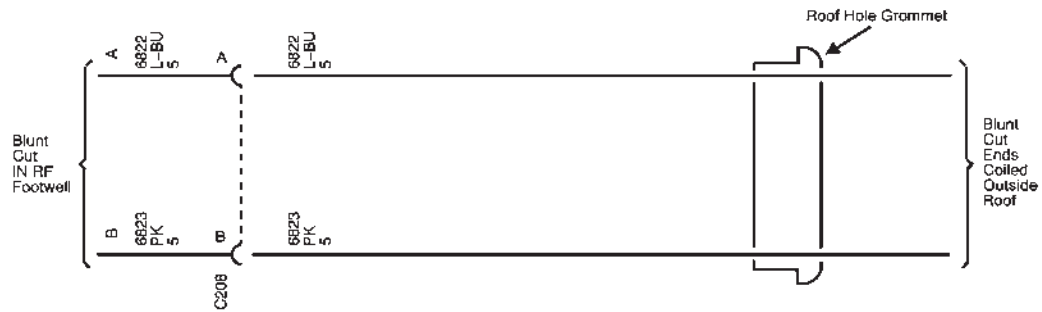
Wiring Diagram for SEO 6J4 Inline Connector

15-22 Special Equipment Options

Wiring Provisions for Roof-Mounted Accessories - SEO 6F5



1. 6B7 Hole Location
2. 6J5 Hole Location



Wiring Diagram for SEO 6F5

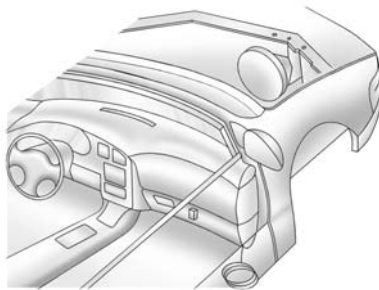
15-24 Special Equipment Options

Option 6F5 is a universal wiring harness for roof-mounted equipment. The harness is routed from a 1.5 m (5 ft) coil of wire in the passenger side footwell to a connector on the passenger side of the trunk.

When the SEO 6B7 (center hole) is ordered, two color-coded 5.0 mm² (10 gauge) wires extend 60 cm (24 in) through a grommet approximately 74 cm (30 in) behind the top of the windshield at the center of the roof.

When SEO 6J5 (passenger side hole) is ordered, two color-coded 5.0 mm² (10-gauge) wires extend 60 cm (24 in) through a grommet approximately 74 cm (30 in) behind the top of the windshield and 15 cm (6 in) inboard from the passenger side longitudinal roof joint.

Wiring Provisions Front Speakers - SEO WX7



About 165 cm (65 in) of auxiliary speaker wire is run from the instrument panel radio connector and is coiled under the center of the instrument panel. The wiring permits the connection of front door speakers to customer-installed communication equipment.

Radio outputs from the front speakers are sent to the rear speakers to maintain the required open door/key in the ignition reminder chime.

Electrical Connections

1. Disconnect the negative (-) battery cable at the battery.
2. Remove the tape from the wire coiled under the instrument panel to uncoil it.
3. Using proper electrical connectors, connect the wires for the left front audio output of the customer-installed communication device. The left front positive wire is tan and the left front negative wire is gray.

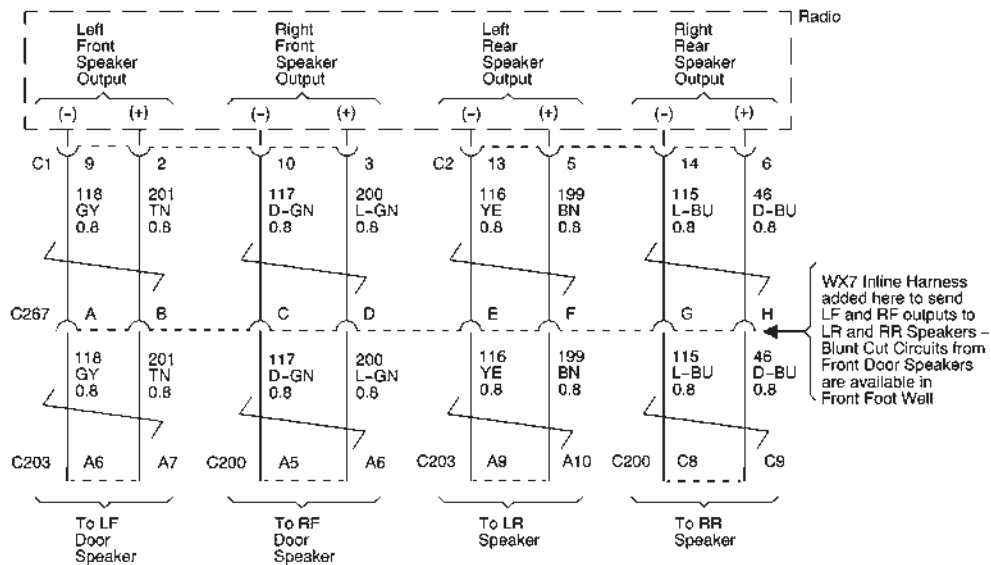
- Using proper electrical connectors, connect the wires for the right front audio output of the customer-installed communication device. The right front positive wire is light green and the right front negative wire is dark green. The electrical impedance of each speaker installed is 10 ohms.

 **Caution**

Overloading the vehicle's electrical system may damage your vehicle's accessories. Do not overload the vehicle's system by having unnecessary accessories on at the same time.

- The ignition must be turned off and the vehicle must be vacated prior to attaching the cable to the battery. Connect the negative (-) battery cable to the battery and tighten the bolt to 15 N·m (11 lb ft).
- Set the time on the clock and radio pushbuttons as needed. See "Infotainment System" in the owner manual.

15-26 Special Equipment Options



Wiring Diagram for SEO WX7 Inline Connector

Wiring Provisions Rear Coaxial Cable - SEO 6C8



About 240 cm (95 in) of RG58 coaxial radio antenna cable is run from the roof panel just rear of the center dome lamp and coiled in the trunk to reach either corner. The cable permits the connection of customer-installed communication equipment.

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