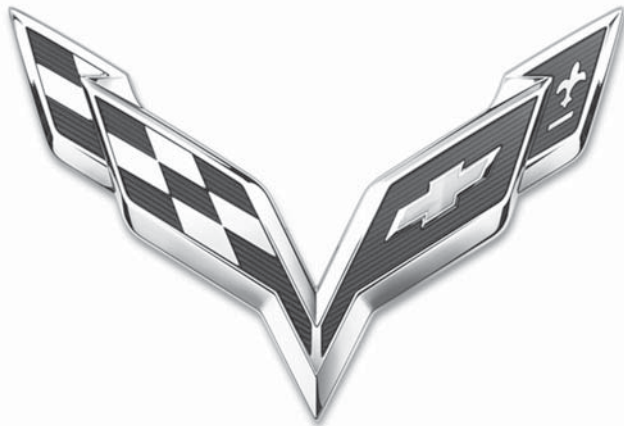




2019



CORVETTE



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Introduction



The names, logos, emblems, slogans, vehicle model names, and vehicle body designs appearing in this manual including, but not limited to, GM, the GM logo, CHEVROLET, the CHEVROLET Emblem, CORVETTE, the CORVETTE Emblem, CORVETTE STINGRAY, and the STINGRAY Emblem are trademarks and/or service marks of General Motors LLC, its subsidiaries, affiliates, or licensors.

For vehicles first sold in Canada, substitute the name "General Motors of Canada Company" for Chevrolet Motor Division wherever it appears in this manual.

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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's manual.

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

Keep this manual in the vehicle for quick reference.

Canadian Vehicle Owners

A French language manual can be obtained from your dealer, at www.helminc.com, or from:

Propriétaires Canadiens

On peut obtenir un exemplaire de ce guide en français auprès du concessionnaire ou à l'adresse suivante:

Helm, Incorporated
Attention: Customer Service
47911 Halyard Drive
Plymouth, MI 48170
USA

Using this Manual

To quickly locate information about the vehicle, use the Index in the back of the manual. It is an alphabetical list of what is in the manual and the page number where it can be found.

Danger, Warning, and Caution

Warning messages found on vehicle labels and in this manual describe hazards and what to do to avoid or reduce them.

Danger

Danger indicates a hazard with a high level of risk which will result in serious injury or death.

Warning

Warning indicates a hazard that could result in injury or death.

Caution

Caution indicates a hazard that could result in property or vehicle damage.



A circle with a slash through it is a safety symbol which means “Do Not,” “Do not do this,” or “Do not let this happen.”

Symbols

The vehicle has components and labels that use symbols instead of text. Symbols are shown along with the text describing the operation or information relating to a specific component, control, message, gauge, or indicator.

 : Shown when the owner's manual has additional instructions or information.

 : Shown when the service manual has additional instructions or information.

↪ : Shown when there is more information on another page — “see page.”

Vehicle Symbol Chart

Here are some additional symbols that may be found on the vehicle and what they mean. See the features in this manual for information.

 : Air Conditioning System

 : Air Conditioning Refrigerant Oil

 : Airbag Readiness Light

 : Antilock Brake System (ABS)

 : Brake System Warning Light

 : Dispose of Used Components Properly

 : Do Not Apply High Pressure Water

 : Engine Coolant Temperature

 : Flame/Fire Prohibited

 : Flammable

 : Forward Collision Alert

 : Fuse Block Cover Lock Location

 : Fuses

 : ISOFIX/LATCH System Child Restraints

4 Introduction

 : Keep Fuse Block Covers Properly Installed

 : Lane Change Alert

 : Lane Departure Warning

 : Lane Keep Assist

 : Malfunction Indicator Lamp

 : Oil Pressure

 : Park Assist

 : Pedestrian Ahead Indicator

 : Power

 : Rear Cross Traffic Alert

 : Registered Technician

 : Remote Vehicle Start

 : Seat Belt Reminders

 : Side Blind Zone Alert

 : Start/Stop

 : Tire Pressure Monitor

 : StabiliTrak/Electronic Stability Control (ESC)

 : Under Pressure

 : Vehicle Ahead Indicator

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Vehicle Features

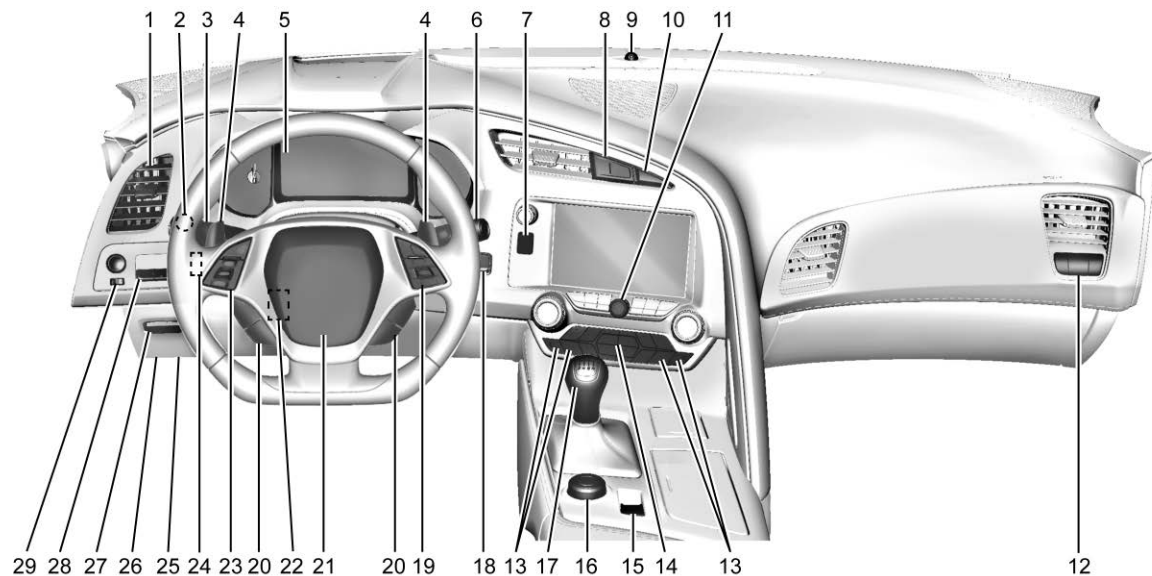
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Instrument Panel



1. <i>Air Vents</i> ⇨ 155. 2. <i>Instrument Panel Illumination Control</i> ⇨ 143 (Out of View). 3. Turn Signal Lever. See <i>Turn and Lane-Change Signals</i> ⇨ 142. <i>Exterior Lamp Controls</i> ⇨ 139. 4. Manual Shift Paddles (If Equipped). See <i>Manual Mode</i> ⇨ 189. <i>Active Rev Match Paddles</i> (If Equipped). See <i>Active Rev Match</i> ⇨ 193. 5. <i>Instrument Cluster</i> ⇨ 103. 6. <i>Windshield Wiper/Washer</i> ⇨ 99. 7. Instrument Panel Storage Button. See <i>Instrument Panel Storage</i> ⇨ 94. 8. Passenger Airbag Status Indicator. See <i>Passenger Sensing System</i> ⇨ 79. 9. Alarm System Indicator Light. See <i>Vehicle Alarm System</i> ⇨ 41.	Light Sensor. See <i>Automatic Headlamp System</i> ⇨ 141. 10. <i>Hazard Warning Flashers</i> ⇨ 142. 11. <i>Infotainment</i> ⇨ 145. 12. Passenger Temperature Control. See <i>Dual Automatic Climate Control System</i> ⇨ 151. Passenger Heated and Ventilated Seat Controls (If Equipped). See <i>Heated and Ventilated Front Seats</i> ⇨ 65. 13. Driver and Redundant Passenger Heated and Ventilated Seat Controls (If Equipped). See <i>Heated and Ventilated Front Seats</i> ⇨ 65. 14. <i>Dual Automatic Climate Control System</i> ⇨ 151. 15. <i>Electric Parking Brake</i> ⇨ 195. 16. MODE SELECT Knob. See <i>Competitive Driving Mode</i> ⇨ 203.	17. Shift Lever (Manual Shown). See <i>Automatic Transmission</i> ⇨ 187 or <i>Manual Transmission</i> ⇨ 192. 18. Keyless Ignition. See <i>Ignition Positions</i> ⇨ 180. 19. Bluetooth Controls. See “Steering Wheel Controls” in the infotainment manual. Voice Recognition Controls. See “Steering Wheel Controls” in the infotainment manual. Driver Information Center (DIC) Controls. See <i>Driver Information Center (DIC)</i> ⇨ 121. 20. See “Steering Wheel Controls” in the infotainment manual. 21. <i>Horn</i> ⇨ 99. 22. <i>Steering Wheel Adjustment</i> ⇨ 99 (Out of View). 23. <i>Cruise Control</i> ⇨ 207. 24. Convertible Top Switch (Out of View) (If Equipped). See <i>Convertible Top</i> ⇨ 52. 25. Hood Release (Out of View). See <i>Hood</i> ⇨ 223.

- 26. Data Link Connector (DLC) (Out of View). See *Malfunction Indicator Lamp (Check Engine Light)* ⇨ 113.
- 27. Hatch/Trunk Release Button. See *Hatch (Trunk)* ⇨ 38.
Intrusion and Inclination Sensors Disable Switch. See *Vehicle Alarm System* ⇨ 41.
- 28. Head-Up Display Controls (If Equipped). See *Head-Up Display (HUD)* ⇨ 123.
- 29. *Power Mirrors* ⇨ 44.

Initial Drive Information

This section provides a brief overview about some of the important features that may or may not be on your specific vehicle.

For more detailed information, refer to each of the features which can be found later in this owner's manual.

Remote Keyless Entry (RKE) System

The Keyless Access system allows for vehicle entry when the Remote Keyless Entry (RKE) transmitter is within 1 m (3 ft). See *Remote Keyless Entry (RKE) System Operation* ⇨ 27.

The RKE transmitter is used to lock and unlock the doors and may work up to 60 m (197 ft) away from the vehicle.



With Remote Start and Convertible Top Shown, Others Similar

Press the button to remove the key. The key can be used to open the vehicle and hatch/trunk if power to the vehicle is lost. See *Hatch (Trunk)* ⇨ 38.

 : Press to unlock the driver door and the fuel door. Press again within five seconds to unlock both doors.

 : Press to lock both doors and the fuel door.

 : Press and hold to release the hatch/trunk.

 : If equipped, press and release  and then immediately press and hold  continuously to open the convertible top all the way. The vehicle must be off to operate the convertible top. Release the button to stop movement. This button will only open the convertible top.

See *Convertible Top* ⇨ 52.

 : Press and release once to initiate vehicle locator. Press and hold for three seconds to sound the panic alarm. Press again or start the vehicle to stop the panic alarm.

See *Keys* ⇨ 25 and *Remote Keyless Entry (RKE) System Operation* ⇨ 27.

Remote Vehicle Start

If equipped, the engine can be started from outside of the vehicle.

Starting the Vehicle

1. Press and release  on the RKE transmitter.

2. Immediately press and hold  for at least four seconds or until the turn signal lamps flash.

Start the vehicle normally after entering.

When the vehicle starts, the parking lamps will turn on.

Remote start can be extended.

Canceling a Remote Start

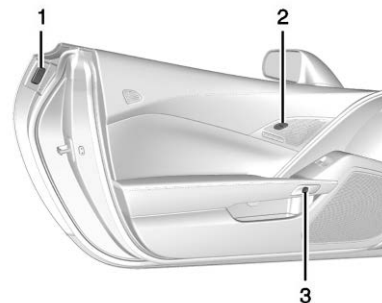
To cancel a remote start, do one of the following:

- Press and hold  until the parking lamps turn off.
- Turn on the hazard warning flashers.
- Turn the vehicle on and then off.

See *Remote Vehicle Start* ⇨ 33.

Door Locks

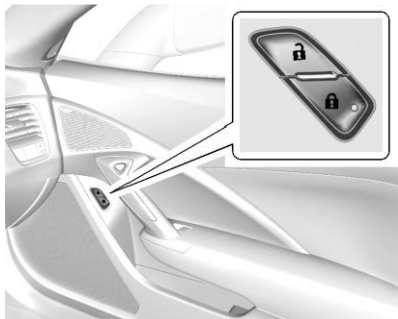
To lock or unlock a door from the outside, press  or  on the Remote Keyless Entry (RKE) transmitter.



Driver Door

1. Door Handle Sensor
2. Power Door Lock Switch
3. Door Latch Button

For Keyless Access, hold the RKE transmitter within 1 m (3 ft) of the door handle. Grip and press the door handle sensor (1). See *Remote Keyless Entry (RKE) System Operation* ⇨ 27. This feature can be programmed. See *Vehicle Personalization* ⇨ 128.



Passenger Door

To lock or unlock a door from the inside, use the power door lock switch.

 : Press to lock the doors.

 : Press to unlock the doors.

To open a door from the inside, press the door latch button.

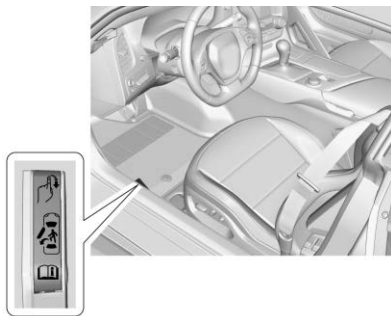
The fuel door is also locked and unlocked using these features.

See *Power Door Locks* ⇨ 36.

Loss of Vehicle Electrical Power

If the vehicle has lost battery power, the doors can be opened manually.

From Inside the Vehicle



Pull the driver door release handle.



Pull the passenger door release handle.

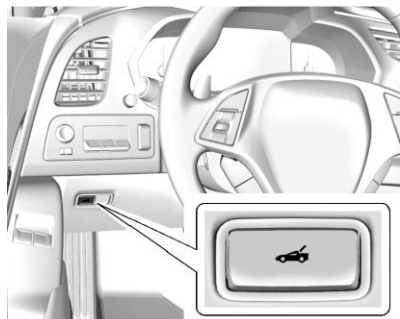
See *Door Locks* ⇨ 34.

Trunk Release

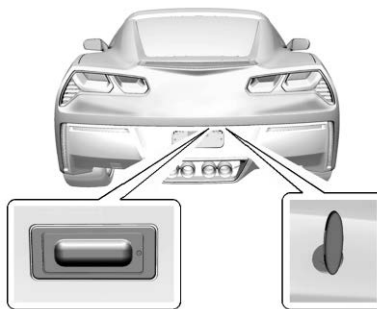
For automatic transmissions, the vehicle must be in P (Park).

For manual transmissions, the vehicle must be off or stationary with the parking brake set. See *Electric Parking Brake* ⇨ 195.

To release the hatch/trunk:



- Press .
- Press and hold  **HOLD** on the Remote Keyless Entry (RKE) transmitter. See *Remote Keyless Entry (RKE) System* ⇨ 26.



- Press the hatch/trunk release touch pad with the RKE transmitter within range or use the key in the key cylinder. See *Remote Keyless Entry (RKE) System* ⇨ 26 and *Keys* ⇨ 25.

See *Hatch (Trunk)* ⇨ 38.

Windows



The power windows work when the ignition is on, in ACC/ACCESSORY, or when Retained Accessory Power (RAP) is active. See *Retained Accessory Power (RAP)* ⇨ 183.

Using the window switch, press to open or pull to close the window.

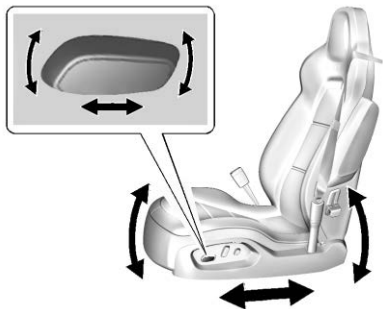
The windows may be temporarily disabled if they are used repeatedly within a short time. See *Power Windows* ⇨ 46.

Window Operation with Convertible Top

The windows will automatically lower fully when the convertible top is lowered or raised. See *Convertible Top* ⇨ 52.

Seat Adjustment

Power Seats



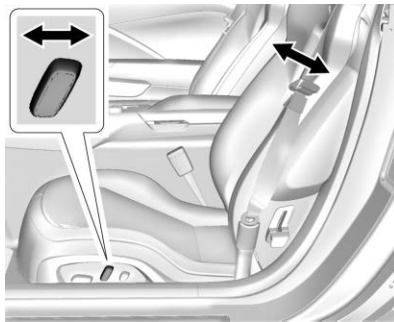
To adjust the seat:

- Move the seat forward or rearward by sliding the control forward or rearward.

- Raise or lower the front part of the seat cushion by moving the front of the control up or down.
- Raise or lower the seat by moving the rear of the control up or down.

See *Power Seat Adjustment* ⇨ 59.

Reclining Seatbacks



To adjust the seatback:

- Tilt the top of the control rearward to recline.
- Tilt the top of the control forward to raise.

See *Reclining Seatbacks* ⇨ 60.

Memory Features



If equipped, memory seats allow two drivers to save and recall their unique seat positions for driving the vehicle, and a shared exit position for getting out of the vehicle. Other feature positions may also be saved, such as power mirrors and power steering wheel, if equipped. Memory positions are linked to RKE transmitter 1 or 2 for automatic memory recalls.

Before saving, adjust all available memory feature positions. Turn the ignition on and then press and release SET; a beep will sound.

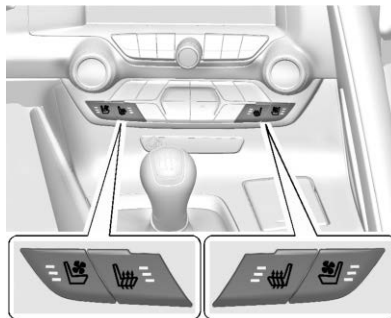
Then immediately press and hold 1, 2, or  (Exit) until two beeps sound. To manually recall these positions, press and hold 1, 2, or  until the saved position is reached.

When Auto Memory Recall is enabled in vehicle personalization, positions previously saved to memory buttons 1 and 2 are recalled when the ignition is changed from off to on or ACC/ACCESSORY.

When Easy Exit Options is enabled in vehicle personalization, the feature automatically recalls the previously saved exit position when exiting the vehicle.

Memory adjustments may not be available upon delivery or after service until steps in “Saving Memory Positions” section are performed. See *Memory Seats* ⇨ 60.

Heated and Ventilated Seats



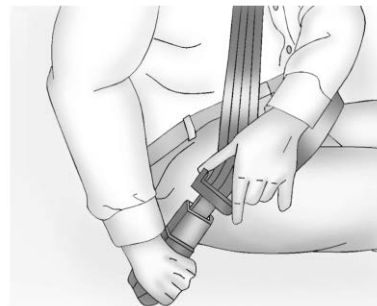
Driver and Passenger Controls

If equipped, the driver buttons are on the center stack. To operate, the ignition must be on.

Press  or  on the left side of the climate control panel to ventilate or heat the driver seat. A ventilated seat has a fan that pulls or pushes air through the seat. The air is not cooled.

See *Heated and Ventilated Front Seats* ⇨ 65.

Seat Belts



Refer to the following sections for important information on how to use seat belts properly:

- *Seat Belts* ⇨ 66.
- *How to Wear Seat Belts Properly* ⇨ 67.
- *Lap-Shoulder Belt* ⇨ 69.
- *Lower Anchors and Tethers for Children (LATCH System)* ⇨ 90.

Passenger Sensing System



United States



Canada and Mexico

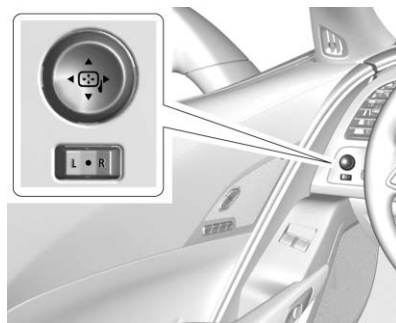
The passenger sensing system will turn off the front outboard passenger frontal airbag under certain conditions. No other airbag

is affected by the passenger sensing system. See *Passenger Sensing System* ⇨ 79.

The passenger airbag status indicator lights on the instrument panel when the vehicle is started. See *Passenger Airbag Status Indicator* ⇨ 112.

Mirror Adjustment

Exterior Mirrors



To adjust the mirrors:

1. Press L (Left) or R (Right) to select the mirror.

2. Press the control pad to adjust the mirror.
3. Return the switch to the center to deselect the mirror.

See *Power Mirrors* ⇨ 44.

If the vehicle has the memory feature, a preferred mirror position can be stored. See *Memory Seats* ⇨ 60.

To fold, pull the mirror toward the vehicle. Push the mirror outward to return it to the original position.

Interior Mirror

Adjustment

Adjust the rearview mirror to clearly view the area behind the vehicle.

Manual Rearview Mirror

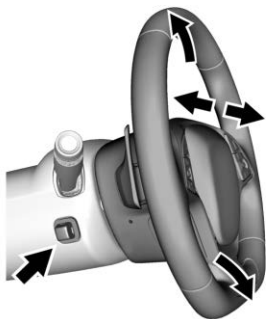
To avoid glare of the headlamps from behind, push the tab forward for daytime and pull it rearward for nighttime use.

Automatic Dimming Rearview Mirror

If equipped, the mirror automatically reduces the glare of the headlamps from behind. The dimming feature comes on when the vehicle is started.

See *Automatic Dimming Rearview Mirror* ⇨ 46.

Steering Wheel Adjustment



Press the control to move the tilt and telescoping steering wheel up and down or forward and rearward.

Both the tilt and telescoping steering column positions can be stored with your memory settings, if equipped. See *Memory Seats* ⇨ 60.

Do not adjust the steering wheel while driving.

Interior Lighting

Interior Light Control

The knob for this feature is on the left side of the instrument panel. Turn clockwise or counterclockwise to brighten or dim the lights. Turn the knob completely clockwise to turn the interior lights on.

Courtesy Lamps

When any door or the hatch/trunk is opened, the interior lamps will come on.

To turn the courtesy lamps on or off, turn the instrument panel brightness knob completely clockwise or counterclockwise.

Reading Lamps



The reading lamps are in the overhead console. The lamps go on when a door is opened. When the doors are closed, press the lamp buttons to turn on each lamp.

For more information on interior lighting, see *Instrument Panel Illumination Control* ⇨ 143.

Exterior Lighting



Exterior Lamps

There are four positions:

☰ : Turns the exterior lamps off and deactivates the AUTO mode. Turn to ☰ again to reactivate the AUTO mode.

In Canada, the headlamps will automatically reactivate when the vehicle is shifted out of P (Park).

AUTO : Sets the exterior lamps to automatic mode. AUTO mode turns the exterior lamps on and off depending on how much light is available outside the vehicle.

☰ : Turns on the parking lamps including all lamps except the headlamps.

☰ : Turns on the headlamps together with the parking lamps and instrument panel lights.

See:

- *Exterior Lamp Controls* ⇨ 139.
- *Automatic Headlamp System* ⇨ 141.

Windshield Wiper/Washer

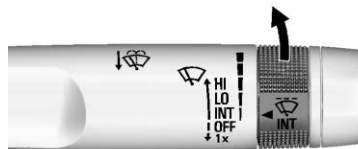


The windshield wiper/washer lever is on the right side of the steering column.

With the ignition on or in ACC/ACCESSORY, move the lever to select the wiper speed.

HI : Use for fast wipes.

LO : Use for slow wipes.



INT : Move the lever up to INT for intermittent wipes, then turn the lever up for more frequent wipes or down for less frequent wipes.

OFF : Use to turn the wipers off.

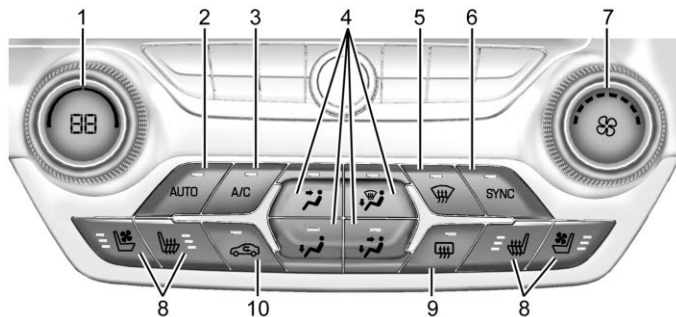
1X : For a single wipe, briefly move the lever down. For several wipes, hold the lever down.

☰ : Pull the lever toward you to spray windshield washer fluid and activate the wipers.

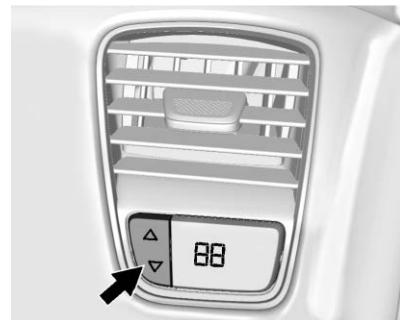
See *Windshield Wiper/Washer* ⇨ 99.

Climate Controls

The heating, cooling, and ventilation for the vehicle can be controlled with this system.



1. Driver Temperature Control	7. Fan Control
2. AUTO (Automatic Operation)	8. Driver and Redundant Passenger Heated and Ventilated Front Seat Controls
3. A/C (Air Conditioning)	9. Rear Window Defogger
4. Air Delivery Modes	10. Recirculation
5. Defrost	
6. SYNC	



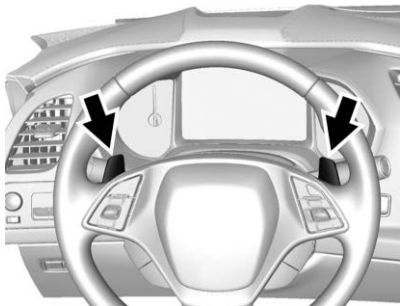
Passenger Temperature Control

The passenger temperature control is below the passenger side air vent.

See *Dual Automatic Climate Control System* ⇨ 151.

Transmission

Manual Paddle Shift (Automatic Transmission)



The Manual Paddle Shift system can be used in D (Drive) or M (Manual Mode). The system is activated by pressing the left paddle to downshift and the right paddle to upshift. The current gear will be displayed in the instrument cluster, or the Head-Up Display (HUD), if equipped.

The Manual Paddle Shift system will not allow either an upshift or a downshift if the vehicle speed is too fast or too slow, nor will it allow a start from 3 (Third) or higher gear.

See *Manual Mode* ⇨ 189.

Active Rev Match (Manual Transmission)

Vehicles equipped with a manual transmission have Active Rev Match (ARM). ARM aids in smoother shifting by matching the engine speed to the next selected gear. The system is normally off. It is activated and deactivated by pressing either of the paddles marked REV MATCH on the steering wheel. See *Active Rev Match* ⇨ 193.

1–4 Shift Message (Manual Transmission)

On vehicles with a manual transmission, when this DIC message is displayed, the transmission can only shift from 1 (First) to 4 (Fourth).

For more information about shifting for the best fuel economy, see *Manual Transmission* ⇨ 192.

Vehicle Features

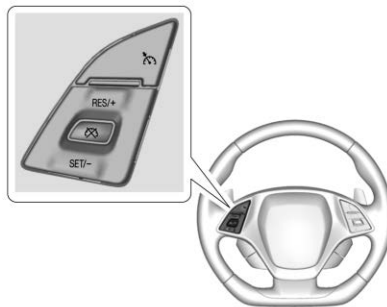
Infotainment System

See the infotainment manual for information on the radio, audio players, phone, navigation system, and voice or speech recognition. It also includes information on settings.

Steering Wheel Controls

The infotainment system can be operated by using the steering wheel controls. See “Steering Wheel Controls” in the infotainment manual.

Cruise Control



 : Press to turn cruise control on or off. A white indicator comes on in the instrument cluster when cruise is turned on.

RES/+ : If there is a set speed in memory, press briefly to resume to that speed or press and hold to accelerate. If cruise control is already active, use to increase vehicle speed.

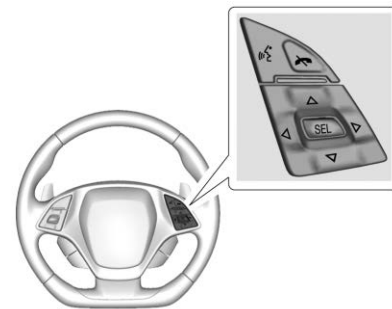
SET/- : Press briefly to set the speed and activate cruise control. If cruise control is already active, use to decrease vehicle speed.

 : Press to disengage cruise control without erasing the set speed from memory.

See *Cruise Control* ⇨ 207.

Driver Information Center (DIC)

The DIC display is in the instrument cluster. It shows the status of many vehicle systems.



△ or ▽ : Press to move up or down in a list.

◀ or ▶ : Press ◀ to open application menus on the left. Press ▶ to open interaction menus on the right.

SEL : Press to open a menu or select a menu item. Press and hold to reset values on certain screens.

See *Driver Information Center (DIC)* ⇨ 121.

Curb View Camera

If equipped, a view of the area in front of the vehicle displays to aid with parking and low-speed maneuvers.

See "Curb View Camera" under *Assistance Systems for Parking or Backing* ⇨ 210.

Rear Vision Camera (RVC)

If equipped, RVC displays a view of the area behind the vehicle on the infotainment display when the

vehicle is shifted into R (Reverse) to aid with parking and low-speed backing maneuvers.

See *Assistance Systems for Parking or Backing* ⇨ 210.

Power Outlets

Use the accessory power outlet to plug in electrical equipment, such as a cell phone or MP3 player.

There are three accessory power outlets:

- Inside the center console storage compartment.
- In front of the cupholder.
- In the rear compartment.

Lift the cover to access and replace when not in use.

See *Power Outlets* ⇨ 101.

Universal Remote System



This system, if equipped, provides a way to replace up to three remote control transmitters used to activate devices such as garage door openers, security systems, and home automation devices.

Read the instructions completely before attempting to program the Universal Remote system. Because of the steps involved, it may be helpful to have another person available to assist you with programming the Universal Remote system.

See *Universal Remote System* ⇨ 135.

Roof Panel

If equipped with a removable roof panel, there are three release handles. Two are at the front of the roof panel and one is at the rear of the roof panel. See “Removing the Roof Panel” under *Roof Panel* ⇨ 48.

Help may be needed to remove the roof panel. Always store the roof panel properly in the rear storage compartment.

For more information:

- See “Storing the Roof Panel” under *Roof Panel* ⇨ 48.
- See “Installing the Roof Panel” under *Roof Panel* ⇨ 48.

Convertible

If equipped, the convertible top can be automatically opened and closed. For step-by-step instructions, see *Convertible Top* ⇨ 52.

Performance and Maintenance

Traction Control/ Electronic Stability Control

The Traction Control System (TCS) limits wheel spin. The system turns on automatically every time the vehicle is started.

StabiliTrak/Electronic Stability Control (ESC) is a computer controlled system that helps the driver maintain directional control of the vehicle in difficult driving conditions. This is accomplished by selectively applying any one of the vehicle's brakes. The system turns on automatically every time the vehicle is started.

- To turn off TCS, press and release  on the center console.  illuminates in the instrument cluster.

- To turn off both TCS and StabiliTrak/ESC, press and hold , until the Traction Off light  and the StabiliTrak/ESC OFF light  illuminate in the instrument cluster.
- Press and release  again to turn on both systems.

See *Traction Control/Electronic Stability Control* ⇨ 198.

The vehicle has Driver Mode Control and may have Competitive Driving Mode.

See *Driver Mode Control* ⇨ 200 and *Competitive Driving Mode* ⇨ 203.

Tire Pressure Monitor

This vehicle may have a Tire Pressure Monitor System (TPMS).



The low tire pressure warning light alerts to a significant loss in pressure of one of the vehicle's tires. If the warning light comes on, stop as soon as possible and inflate the tires to the recommended pressure shown on the Tire and Loading Information label. See *Vehicle Load Limits* ⇨ 175. The warning light will remain on until the tire pressure is corrected.

The low tire pressure warning light may come on in cool weather when the vehicle is first started, and then turn off as the vehicle is driven. This may be an early indicator that the tire pressures are getting low and the tires need to be inflated to the proper pressure.

The TPMS does not replace normal monthly tire maintenance. Maintain the correct tire pressures.

See *Tire Pressure Monitor System* ⇨ 275.

Performance Vehicle Features

Checking Engine Oil

Your vehicle may have a high performance dry sump lubrication system. This system operates differently than a standard engine lubrication system. See *Engine Oil* ⇨ 232.

Check the oil level only after the engine has been thoroughly warmed up and then check between five and 10 minutes of shutoff. This ensures that the oil level reading obtained will be accurate.

Brake Noise

Under certain weather or operating conditions, occasional brake squeal may be heard with the vehicle's performance braking system. This brake system is designed for superior fade resistance and consistent operation using high performance brake pads. Brake squeal is normal and does not affect system performance.

Tire Chatter/Hop

When driving at slow speeds and in very tight turns, the vehicle may have tire chatter/hop. This condition is normal and the vehicle does not require service.

Road Imperfections/Crown Effects

The vehicle's precise steering and handling make it very responsive to road surface feedback. A slight pull may be felt in the steering depending on the crown of the road and/or other road surface variations such as troughs or ruts. This is normal and the vehicle does not require service.

Fuel (LT1 6.2L V8 Engine)



Premium Recommended

Use premium 93 octane — (R+M)/2 — unleaded gasoline in your vehicle. TOP TIER Detergent Gasoline is recommended. Unleaded gasoline with an octane rating as low as 87 may be used, but it will reduce performance and fuel economy.

See *Recommended Fuel (LT1 6.2L V8 Engine)* ⇨ 212 or *Recommended Fuel (LT4 and LT5 6.2L Supercharged V8 Engines)* ⇨ 213.

Fuel (LT4 and LT5 6.2L Supercharged V8 Engines)
**Premium Required**

Use premium 93 octane — (R+M)/2 — unleaded gasoline in your vehicle. TOP TIER Detergent

Gasoline is recommended. Unleaded gasoline with a 91 octane rating may be used, but it will reduce performance and fuel economy.

See *Recommended Fuel (LT1 6.2L V8 Engine)* ⇨ 212 or *Recommended Fuel (LT4 and LT5 6.2L Supercharged V8 Engines)* ⇨ 213.

E85 or FlexFuel**No E85 or FlexFuel**

Gasoline-ethanol fuel blends greater than E15 (15% ethanol by volume), such as E85, cannot be used in this vehicle.

Engine Oil Life System

The engine oil life system calculates engine oil life based on vehicle use and displays a Driver Information

Center (DIC) message when it is necessary to change the engine oil and filter. The oil life system should be reset to 100% only following an oil change.

Dry Sump Engine Break-In Oil Change

If equipped with a dry sump engine, the initial oil and filter change must be performed at 800 km/500 mi. Follow the engine oil life system for every oil change thereafter.

Resetting the Oil Life System

1. Scroll through the DIC Info Pages menu until the REMAINING OIL LIFE percentage is displayed. See *Driver Information Center (DIC)* ⇨ 121.
2. Press and hold SEL on the DIC while the Oil Life display is active. The oil life will change to 100%.

See *Engine Oil Life System* ⇨ 237.

Car Wash Guidelines

Caution

Some automatic car washes can cause damage to the vehicle, wheels, or convertible top, if equipped. Automatic car washes are not recommended, due to lack of clearance for the undercarriage and/or wide rear tires and wheels. See "Washing the Vehicle" under *Exterior Care* ⇨ 300

Driving for Better Fuel Economy

Driving habits can affect fuel mileage. Here are some driving tips to get the best fuel economy possible:

- Set the climate controls to the desired temperature after the engine is started, or turn them off when not required.
- Avoid fast starts and accelerate smoothly.

- Brake gradually and avoid abrupt stops.
- Avoid idling the engine for long periods of time.
- When road and weather conditions are appropriate, use cruise control.
- Always follow posted speed limits or drive more slowly when conditions require.
- Keep vehicle tires properly inflated.
- Combine several trips into a single trip.
- Replace the vehicle's tires with the same TPC Spec number molded into the tire's sidewall near the size.
- Follow recommended scheduled maintenance.
- Select Eco Mode for improved fuel economy. This will result in better Active Fuel Management operation. See *Active Fuel Management (Except ZR1/LT5)* ⇨ 185.

- For recommended shift speeds, see *Manual Transmission* ⇨ 192.

Premium Fuel

Use the recommended fuel. See *Recommended Fuel (LT1 6.2L V8 Engine)* ⇨ 212 or *Recommended Fuel (LT4 and LT5 6.2L Supercharged V8 Engines)* ⇨ 213.

Roadside Assistance Program

U.S.: 1-800-243-8872

TTY Users (U.S. Only):
1-888-889-2438

Canada: 1-800-268-6800

New Chevrolet owners are automatically enrolled in the Roadside Assistance Program.

See *Roadside Assistance Program* ⇨ 334.

Keys, Doors, and Windows

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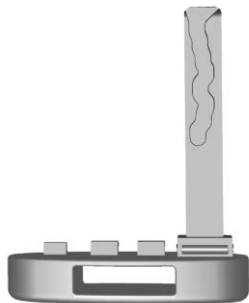
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Keys and Locks

Keys

Warning

Leaving children in a vehicle with a Remote Keyless Entry (RKE) transmitter is dangerous and children or others could be seriously injured or killed. They could operate the power windows or other controls or make the vehicle move. The windows will function with the RKE transmitter in the vehicle, and children or others could be caught in the path of a closing window. Do not leave children in a vehicle with an RKE transmitter.



The key inside the RKE transmitter can be used to open the vehicle and hatch/trunk if power to the vehicle is lost. See *Hatch (Trunk)* ⇨ 38.



With Remote Start and Convertible Top Shown, Others Similar

Press the button near the bottom of the RKE transmitter to remove the key. Never pull the key out without pressing the button.

This vehicle has a Keyless Access system with pushbutton start. See *Ignition Positions* ⇨ 180 for information on starting the vehicle.

If it becomes difficult to turn the key, inspect the key blade for debris.

If locked out of the vehicle, contact Roadside Assistance. See *Roadside Assistance Program* ⇨ 334.

With an active OnStar or connected service plan, an OnStar Advisor may remotely unlock the vehicle. See *OnStar Overview* ⇨ 344.

Remote Keyless Entry (RKE) System

See *Radio Frequency Statement* ⇨ 340.

If there is a decrease in the Remote Keyless Entry (RKE) operating range:

- Check the distance. The transmitter may be too far from the vehicle.
- Check the location. Other vehicles or objects may be blocking the signal.
- Check the transmitter's battery. See "Battery Replacement" later in this section.
- If the transmitter is still not working correctly, see your dealer or a qualified technician for service.

Remote Keyless Entry (RKE) System Operation

The Keyless Access system allows for vehicle entry when the Remote Keyless Entry (RKE) transmitter is within 1 m (3 ft). See “Keyless Access Operation” later in this section.

The RKE transmitter functions may work up to 60 m (197 ft) away from the vehicle.

Other conditions can affect the performance of the transmitter. See *Remote Keyless Entry (RKE) System* ⇨ 26.



With Remote Start and Convertible Top Shown, Others Similar

 : Press to lock both doors and the fuel door. The turn signal indicators may flash and/or the horn may sound on the second press to indicate locking. See “Remote Lock, Unlock, Start” under *Vehicle Personalization* ⇨ 128.

If the driver door is open when  is pressed and Unlocked Door Anti-Lockout is enabled through vehicle personalization, all doors will lock and then the driver door will immediately unlock. See “Unlocked Door Anti-Lockout” under *Vehicle*

Personalization ⇨ 128. If the passenger door is open when  is pressed, both doors lock.

Pressing  may also arm the theft-deterrent system. See *Vehicle Alarm System* ⇨ 41.

 : Press to unlock the driver door and the fuel door. Press again within five seconds to unlock both doors. When remotely unlocking the vehicle at night, the headlamps and back-up lamps will come on for about 30 seconds to light your approach to the vehicle. The turn signal indicators may flash to indicate unlocking.

Pressing  will disarm the theft-deterrent system. See *Vehicle Alarm System* ⇨ 41.

 : If equipped, press and release  and then immediately press and hold  for at least four seconds to start the engine from outside the vehicle using the RKE transmitter. See *Remote Vehicle Start* ⇨ 33.

 : Press and release to initiate vehicle locator. The exterior lamps flash and the horn chirps three times. Press and hold  for three seconds to sound the panic alarm. The horn sounds and the turn signal lamps flash for 30 seconds, or until  is pressed again or the vehicle is started.

 : Press and hold to release the hatch/trunk. If the engine is running, the shift lever must be in P (Park) for an automatic transmission. For a manual transmission, the shift lever must be in Neutral with the parking brake set.

 : If equipped, press and release , then immediately press and hold  continuously to open the convertible top all the way. The vehicle must be off to operate the convertible top. Release the button to stop movement. This button will only open the convertible top.

Convertible Top

- Do not try to start the vehicle while using the RKE transmitter to open the convertible top. Release both the RKE transmitter button and ENGINE START/STOP and wait a few seconds before starting the vehicle normally.
- The passive door unlock feature may not operate properly while using the RKE transmitter to open the convertible top.

Keyless Access Operation

This vehicle has the Keyless Access system that lets you unlock and unlatch the doors and access the trunk without removing the RKE transmitter from your pocket, purse, briefcase, etc. The RKE transmitter must be within 1 m (3 ft) of the trunk or door being opened. There will be a touch pad on the inside of the door handles.

The Keyless Access system can be programmed to unlock both doors on the first door handle sensor press from the driver door. See *Vehicle Personalization* ⇨ 128.

If equipped with memory seats, RKE transmitters 1 and 2 are linked to seating positions of memory 1 or 2. See *Memory Seats* ⇨ 60.

Keyless Unlocking

Press the door handle sensor to unlock and open the doors if the RKE transmitter is within 1 m (3 ft). Pull the door handle to unlatch the door. See *Door Locks* ⇨ 34 and “Passive Door Unlock” under *Vehicle Personalization* ⇨ 128.

Passive Locking

Keyless Access will lock several seconds after all doors are closed if the vehicle is off and at least one transmitter has been removed or none remain in the vehicle.

The fuel door will also lock.

If other electronic devices interfere with the RKE transmitter signal, the vehicle may not detect the RKE

transmitter inside the vehicle. If passive locking is enabled, the doors may lock with the RKE transmitter inside the vehicle. Do not leave the RKE transmitter in an unattended vehicle.

To customize whether the doors automatically lock when exiting the vehicle, see “Passive Door Lock” under *Vehicle Personalization* ⇨ 128.

Temporary Disable of Passive Locking

Temporarily disable passive locking by pressing and holding  on the interior door switch with a door open for at least four seconds, or until three chimes are heard. Passive locking will then remain disabled until  on the interior door is pressed, or until the vehicle is turned on.

To customize the doors to automatically lock when exiting the vehicle, see “Remote Lock, Unlock, Start” under *Vehicle Personalization* ⇨ 128.

Remote Left in Vehicle Alert

When the vehicle is turned off and an RKE transmitter is left in the vehicle, the horn will chirp three times after both doors are closed. To turn on or off, see “Remote Left in Vehicle Alert” under *Vehicle Personalization* ⇨ 128.

Remote No Longer in Vehicle Alert

If the vehicle is on, with a door open, and then all doors are closed, the vehicle will check for RKE transmitters inside. If an RKE transmitter is not detected, the Driver Information Center (DIC) will display NO REMOTE DETECTED and the horn will chirp three times. This occurs only once each time the vehicle is driven. To turn on or off, see *Vehicle Personalization* ⇨ 128.

Keyless Trunk Opening



Press the hatch/trunk release touch pad to open the trunk if the RKE transmitter is within 1 m (3 ft).

Programming Transmitters to the Vehicle

Only RKE transmitters programmed to this vehicle will work. If a transmitter is lost or stolen, a replacement can be purchased and programmed through your dealer. The vehicle can be reprogrammed so that lost or stolen transmitters no

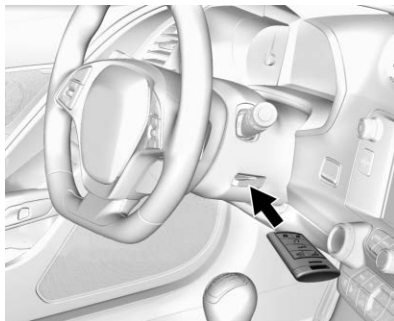
30 Keys, Doors, and Windows

longer work. Each vehicle can have up to eight transmitters programmed to it.

Programming with Recognized Transmitters

A new transmitter can be programmed to the vehicle when there are two recognized transmitters.

1. The vehicle must be off and both the recognized and new transmitters must be with you.
2. Place the two recognized transmitters in the cupholder.
3. Insert the vehicle key of the new transmitter into the key cylinder above the license plate.
4. Open the hatch/trunk.
5. Turn the key five times within 10 seconds.
6. The DIC displays READY FOR REMOTE # 3 or 4, up to 8.



7. Place the new transmitter in the steering column transmitter pocket with the buttons facing up and the bottom of the transmitter facing the passenger side.
8. Press ENGINE START/STOP.
9. The DIC displays READY FOR REMOTE # 4 or 5, up to 8.
10. Press  on each newly programmed transmitter to complete the process.

11. To program additional transmitters, repeat Steps 7–10. Press and hold ENGINE START/STOP for 12 seconds if programming is complete.
12. Return the key back into the RKE transmitter.

Programming without Two Recognized Transmitters

If two currently recognized transmitters are not available, follow this procedure to program up to eight transmitters. This feature is not available in Canada. This procedure will take approximately 30 minutes to complete. The vehicle must be off and all transmitters to be programmed must be present.

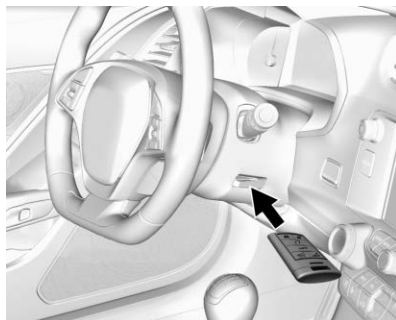
1. The vehicle must be off.
2. Remove the key from the new transmitter and insert the vehicle key into the key cylinder above the license plate.
3. Open the hatch/trunk.
4. Turn the key five times within 10 seconds.

The DIC displays REMOTE LEARN PENDING PLEASE WAIT.

5. Put the key back into the RKE transmitter.
6. Wait for 10 minutes until the DIC displays PRESS ENGINE START BUTTON TO LEARN, then press ENGINE START/STOP.

The DIC reads REMOTE LEARN PENDING, PLEASE WAIT.

7. Repeat Step 6 two additional times. After the third time all previously known transmitters will no longer work with the vehicle. Remaining transmitters can be relearned during the next steps. The DIC display should now show READY FOR REMOTE #1.



8. Place the new transmitter in the steering column transmitter pocket with the buttons facing up and the bottom of the transmitter facing the passenger side.
9. Press ENGINE START/STOP. When the transmitter is learned, the DIC display will show that it is ready to program the new transmitter.
10. Remove the transmitter from the transmitter pocket and press  or  on the transmitter.

11. To program additional transmitters, repeat Steps 8–10. When all additional transmitters are programmed, press and hold ENGINE START/STOP for approximately 12 seconds to exit programming mode.
12. Return the key back into the RKE transmitter.

Starting the Vehicle with a Low Transmitter Battery

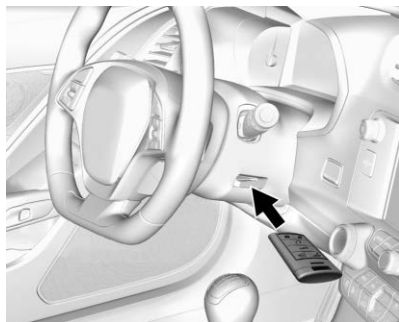
If the transmitter battery is weak or if there is interference with the signal, the DIC may display NO REMOTE DETECTED or NO REMOTE KEY WAS DETECTED PLACE KEY IN TRANSMITTER POCKET, THEN START YOUR VEHICLE when you try to start the vehicle.

Caution

When replacing the battery, do not touch any of the circuitry on the transmitter. Static from your body could damage the transmitter.

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To start the vehicle:



1. Place the transmitter in the steering column transmitter pocket with the buttons facing up and the bottom of the transmitter facing the passenger side.
2. With the vehicle in P (Park) or N (Neutral), press the brake pedal and ENGINE START/STOP.

Replace the transmitter battery as soon as possible.

Battery Replacement

Caution

When replacing the battery, do not touch any of the circuitry on the transmitter. Static from your body could damage the transmitter.

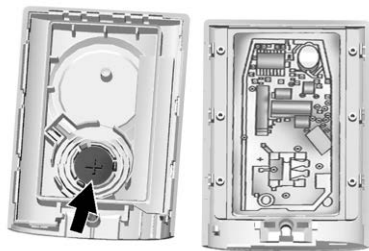
Replace the battery if the DIC displays REPLACE BATTERY IN REMOTE KEY.



1. Press the button near the bottom of the transmitter and pull the key out.



2. Use the oval base of the key blade to separate the two halves of the transmitter.



3. Remove the old battery. Do not use a metal object.
4. Insert the new battery on the back housing, positive side facing down. Replace with a CR2032 or equivalent battery.
5. Align the key release button and snap the transmitter back together.

Remote Vehicle Start

If equipped, this feature allows the engine to be started from outside the vehicle.

 : This button will be on the RKE transmitter if the vehicle has remote start.

The climate control system will use the previous settings during a remote start. The rear window defogger may come on during remote start based on cold ambient conditions. The rear defog indicator light does not come on during a remote start. See “Auto Rear Defog” in *Vehicle Personalization* ⇨ 128.

During a remote start, the heated or ventilated seats, if equipped, may turn on automatically. See *Heated and Ventilated Front Seats* ⇨ 65.

Laws in some local communities may restrict the use of remote starters. For example, some laws may require a person using remote start to have the vehicle in view. Check local regulations for any requirements.

If the vehicle is low on fuel, do not use the remote start feature. The vehicle may run out of fuel.

The RKE transmitter range may be less while the vehicle is running.

Other conditions can affect the performance of the transmitter. See *Remote Keyless Entry (RKE) System* ⇨ 26.

Starting the Engine Using Remote Start

1. Press and release  on the RKE transmitter.
2. Immediately press and hold  for at least four seconds or until the turn signal lamps flash. The lamps flash to confirm the request to remote start the vehicle has been received.

During the remote start, the doors will be locked and the parking lamps will remain on as long as the engine is running.

The engine will shut off after 15 minutes unless a time extension is done.

3. To drive, have the RKE transmitter in the vehicle, press the brake pedal, and then start the vehicle.

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Extending Engine Run Time

The engine run time can also be extended by another 15 minutes, if during the first 15 minutes Steps 1 and 2 are repeated while the engine is still running. An extension can be requested 30 seconds after starting. This provides a total of 30 minutes.

The remote start can only be extended once per ignition cycle.

A maximum of two remote starts, or a remote start with an extension, are allowed between ignition cycles.

After two remote starts, or a remote start with an extension, the ignition must be turned on and then off before the remote start procedure can be used again.

Canceling a Remote Start

To cancel a remote start, do any of the following:

- Press and hold  until the parking lamps turn off.
- Turn on the hazard warning flashers.

- Turn the vehicle on and then off.

Conditions in Which Remote Start Will Not Work

The remote start will not operate if any of the following occur:

- The ignition is in any mode other than off.
- The RKE transmitter is in the vehicle.
- The hood is not closed.
- The hazard warning flashers are on.
- There is an emission control system malfunction.
- The engine coolant temperature is too high.
- The oil pressure is low.
- Two remote vehicle starts, or a remote start with an extension, have already been used.
- The vehicle is not in P (Park).

Door Locks



Warning

Unlocked doors can be dangerous.

- Passengers, especially children, can easily open the doors and fall out of a moving vehicle. The doors can be unlocked and opened while the vehicle is moving. The chance of being thrown out of the vehicle in a crash is increased if the doors are not locked. So, all passengers should wear seat belts properly and the doors should be locked whenever the vehicle is driven.
- Young children who get into unlocked vehicles may be unable to get out. A child can be overcome by extreme heat and can suffer

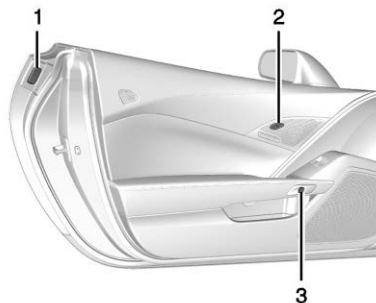
(Continued)

Warning (Continued)

permanent injuries or even death from heat stroke. Always lock the vehicle whenever leaving it.

- Outsiders can easily enter through an unlocked door when you slow down or stop the vehicle. Locking the doors can help prevent this from happening.

To lock or unlock from the outside, press  or  on the Remote Keyless Entry (RKE) transmitter.



1. Door Handle Sensor
2. Power Door Lock Switch
3. Door Latch Button

For Keyless Access, hold the RKE transmitter within 1 m (3 ft) of the door handle. Grip and press the door handle sensor (1) to open. See *Remote Keyless Entry (RKE) System Operation* ⇨ 27. When the passenger door is opened first, the driver door will also unlock. To program this feature, see *Vehicle Personalization* ⇨ 128.

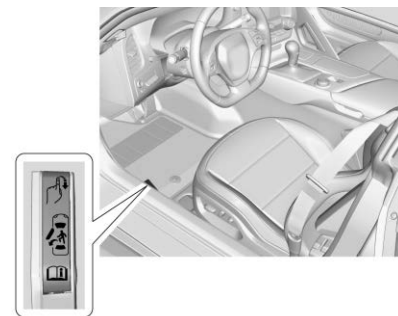
To lock or unlock from the inside, use the power door lock switch (2). See *Power Door Locks* ⇨ 36.

To open a door from the inside, press the door latch button (3).

Loss of Vehicle Electrical Power

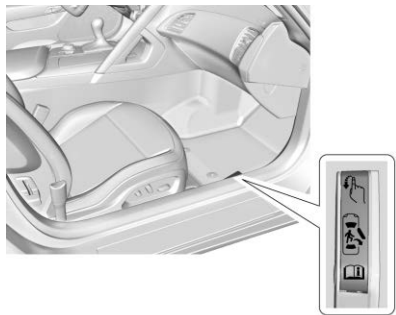
If the vehicle has lost battery power, open the doors manually.

From Inside the Vehicle



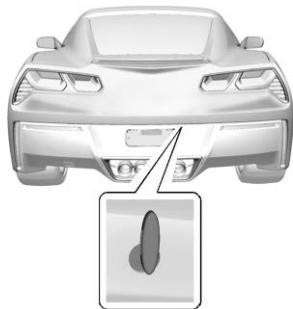
Pull the driver door release handle.

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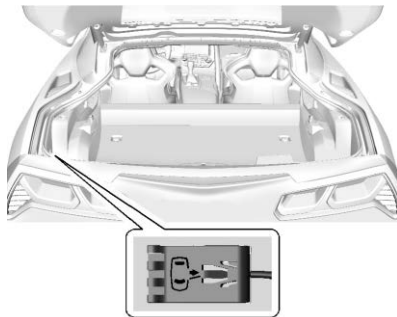


Pull the passenger door release handle.

From Outside the Vehicle

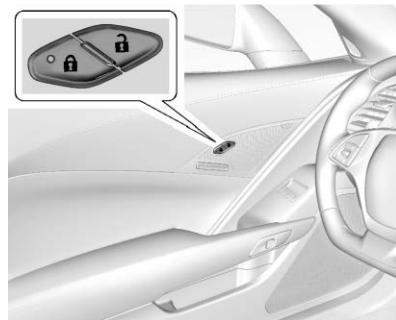


Use the key to open the hatch/trunk.
See *Keys* ⇨ 25.

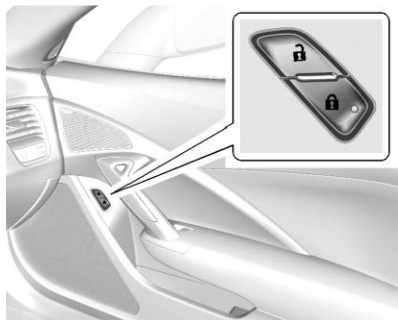


Pull the manual door release handle.

Power Door Locks



Driver Door



Passenger Door

To lock or unlock the doors and fuel door from inside the vehicle, press  or  on a power door lock switch. The indicator light in the switch will illuminate when the door is locked.

Delayed Locking

This feature delays the actual locking of the doors until five seconds after all doors are closed.

Delayed locking can only be turned on when the Unlocked Door Anti-Lockout feature has been turned off.

When  is pressed on the power door lock switch with the door open, a chime will sound three times indicating that delayed locking is active.

The doors will then lock automatically five seconds after all doors are closed. If a door is reopened before five seconds have elapsed, the five-second timer will reset once all the doors are closed again.

Press  on the door lock switch again, or press  on the RKE transmitter, to override this feature and lock the doors immediately.

Delayed locking can be programmed. See *Vehicle Personalization* ⇨ 128.

Automatic Door Locks

The doors will lock automatically when all doors are closed, the ignition is on, and the shift lever is moved out of P (Park) for automatic transmissions, or when vehicle speed becomes faster than 13 km/h (8 mph) for manual transmissions.

If a vehicle door is unlocked and then opened and closed, the doors will lock either when your foot is removed from the brake or the vehicle speed becomes faster than 13 km/h (8 mph).

To unlock the doors:

- Press  on a power door lock switch.
- For an automatic transmission, shift into P (Park).
- For a manual transmission, turn the vehicle off when parked.

Automatic door locking cannot be disabled. Automatic door unlocking can be programmed. See *Vehicle Personalization* ⇨ 128.

Lockout Protection

If the ignition is on or in ACC/ACCESSORY and the power door lock switch is pressed with the driver door open, all the doors will lock and only the driver door will unlock.

If the vehicle is off and locking is requested while a door is open, when all doors are closed the vehicle will check for RKE transmitters inside. If an RKE transmitter is detected and the number of RKE transmitters inside has not reduced, the driver door will unlock and the horn will chirp three times.

Lockout Protection can be manually overridden with the driver door open by pressing and holding  on the power door lock switch.

Unlocked Door Anti-Lockout

If Unlocked Door Anti-Lockout is turned on and the vehicle is off, the driver door is open, and locking is requested, all the doors will lock and the driver door will remain open. Press the button again to lock the driver door. The Unlocked Door Anti-Lockout feature can be turned on or off. See *Vehicle Personalization* ⇨ 128.

Doors

Hatch (Trunk)

Warning

Exhaust gases can enter the vehicle if it is driven with the liftgate, hatch/trunk open, or with any objects that pass through the seal between the body and the hatch/trunk or liftgate. Engine exhaust contains carbon monoxide (CO) which cannot be seen or smelled. It can cause unconsciousness and even death.

If the vehicle must be driven with the liftgate or hatch/trunk open:

- Close all of the windows.
- Fully open the air outlets on or under the instrument panel.
- Adjust the climate control system to a setting that brings in only outside air

(Continued)

Warning (Continued)

and set the fan speed to the highest setting. See “Climate Control Systems” in the Index.

- If the vehicle is equipped with a power liftgate, disable the power liftgate function.

For more information about carbon monoxide, see *Engine Exhaust* ⇨ 186.

Hatch/Trunk Release

For automatic transmissions, the vehicle must be in P (Park).

For manual transmissions, the vehicle must be off or stationary with the parking brake set. See *Electric Parking Brake* ⇨ 195.

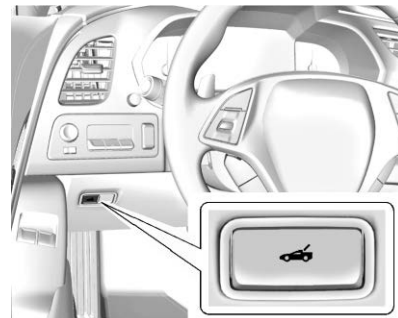
Warning

When opening or closing the hatch/trunk, keep hands away from the closure area. You or others could be injured.

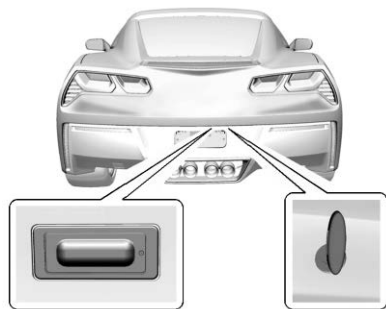
Warning

The ZR1 has a small amount of space between the hatch/trunk lid and the rear adjustable performance wing. To help avoid potential injury from pinching, use one hand to raise the hatch/trunk lid enough to clear the wing, and use the other hand to fully open the hatch/trunk lid.

To release the hatch/trunk:



- Press .
- Press and hold  on the Remote Keyless Entry (RKE) transmitter. See *Remote Keyless Entry (RKE) System* ⇨ 26.



- Press the hatch/trunk release touch pad with the RKE transmitter within range or use the key in the key cylinder. See Keys ⇨ 25.

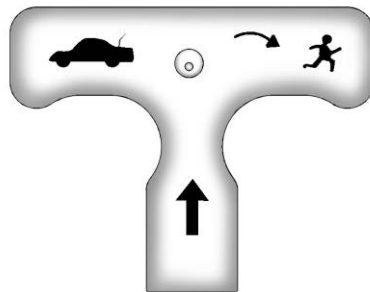
Hatch/Trunk Closing

Caution

Do not store heavy or sharp objects in the rear storage compartments located in the hatch/trunk area. The objects could damage the underside of the hatch/trunk.

Use the pull cup to close the hatch/trunk with light force until the power latch feature activates. The hatch/trunk will close the rest of the way and latch automatically.

Emergency Trunk Release Handle (Convertible)



Caution

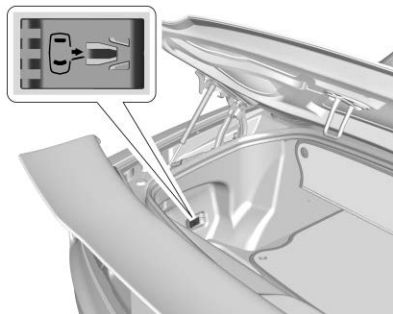
Do not use the emergency trunk release handle as a tie-down or anchor point when securing items in the trunk as it could damage the handle.

There is a glow-in-the-dark emergency trunk release handle on the rear wall of the storage compartment. This handle will glow

following exposure to light. Pull the release handle to open the trunk from the inside.

After use, return to the stored position.

Emergency Door Open Lever



ZR1 Shown, Other Models Similar

In the case of a dead battery:

1. Use the key to open the hatch/trunk.
2. Pull the lever to unlock the doors.

Vehicle Security

This vehicle has theft-deterrent features; however, they do not make the vehicle impossible to steal.

Vehicle Alarm System

This vehicle has an anti-theft alarm system.



The indicator light, on the instrument panel near the windshield, indicates the status of the system.

Off : Alarm system is disarmed.

On Solid : Vehicle is secured during the delay to arm the system.

Fast Flash : Vehicle is unsecured. A door, the hood, or the hatch/trunk is open.

Slow Flash : Alarm system is armed.

Arming the Alarm System

1. Turn off the vehicle.
2. Lock the vehicle in one of three ways:
 - Use the RKE transmitter.
 - Use the Keyless Access system.
 - With a door open, press  on the interior of the door.
3. After 30 seconds the alarm system will arm, and the indicator light will begin to slowly flash indicating the alarm system is operating. Pressing  on the RKE transmitter a second time will

bypass the 30-second delay and immediately arm the alarm system.

The vehicle alarm system will not arm if the doors are locked with the key.

If the driver door is opened without first unlocking with the RKE transmitter, the horn will chirp and the lights will flash to indicate pre-alarm. If the vehicle is not started, or the door is not unlocked by pressing  on the RKE transmitter during the 10-second pre-alarm, the alarm will be activated.

The alarm will also be activated if the passenger door, the hatch/trunk, or the hood is opened without first disarming the system. When the alarm is activated, the turn signals flash and the horn sounds for about 30 seconds. The alarm system will then re-arm to monitor for the next unauthorized event.

Disarming the Alarm System

To disarm the alarm system or turn off the alarm if it has been activated, do one of the following:

- Press  on the RKE transmitter.
- Unlock the vehicle using the Keyless Access system.
- Start the vehicle.

To avoid setting off the alarm by accident:

- Lock the vehicle after all occupants have left the vehicle and both doors are closed.
- Always unlock a door with the RKE transmitter or use the Keyless Access system.

Unlocking the driver door with the key will not disarm the system or turn off the alarm.

How to Detect a Tamper Condition

If  is pressed on the transmitter and the horn chirps and the lights flash three times, a previous alarm occurred while the system was armed.

If the alarm has been activated, a message will appear on the DIC.

Inclination Sensor and Intrusion Sensor

In addition to the standard theft-deterrent system features, this system may also have an inclination sensor and intrusion sensor.

The inclination sensor can set off the alarm if it senses movement of the vehicle, such as a change in vehicle orientation.

The intrusion sensor monitors the vehicle interior, and can activate the alarm if it senses unauthorized entry into the vehicle's interior. Do not allow passengers or pets to remain in the vehicle when the intrusion sensor is activated.

Before arming the theft-deterrent system and activating the intrusion sensor:

- Make sure both doors and windows are completely closed.
- Secure any loose items such as sunshades.
- Make sure there are no obstructions blocking the sensors.

Intrusion and Inclination Sensors Disable Switch

It is recommended that the intrusion and inclination sensors be deactivated if pets are left in the vehicle or if the vehicle is being transported.

When the roof panel is off, or the convertible top is down, the intrusion system is turned off.

With the vehicle turned off, press  to the right of the hatch/trunk release button. The indicator light will come on momentarily, indicating

that these sensors have been disabled until the next time the alarm system is armed.

Immobilizer

See *Radio Frequency Statement* ⇨ 340.

Immobilizer Operation

The vehicle has a passive theft-deterrent system.



The security light comes on in the instrument cluster if there is a problem with arming or disarming the theft-deterrent system. This light also comes on briefly when the engine is started.

The system is automatically armed when the ignition is turned off.

The immobilization system is disarmed when the ignition is turned on or placed in ACC/ACCESSORY and a valid transmitter is found in the vehicle.

You do not have to manually arm or disarm the system.

The system has one or more RKE transmitters that are matched to an immobilizer control unit in the vehicle. Only a correctly matched RKE transmitter starts the vehicle. The vehicle may not start if the RKE transmitter is damaged.

If the engine does not start and the security light comes on, there may be a problem with the immobilizer system. Press ENGINE START/STOP again.

If the vehicle does not start and the RKE transmitter appears to be undamaged, try another RKE transmitter. Or, place the transmitter in the transmitter pocket. Check the fuse. See *Fuses* ⇨ 258. If the engine still does not start with the other transmitter, or with the transmitter in the transmitter pocket, the vehicle

needs service. If the engine does start, the first transmitter may be faulty. See your dealer or have a new RKE transmitter programmed to the vehicle.

The immobilizer system can learn new or replacement RKE transmitters. Up to eight RKE transmitters can be programmed for the vehicle. To program additional transmitters, see "Programming Transmitters to the Vehicle" under *Remote Keyless Entry (RKE) System Operation* ⇨ 27.

Do not leave the transmitter or device that disarms or deactivates the theft-deterrent system in the vehicle.

Exterior Mirrors

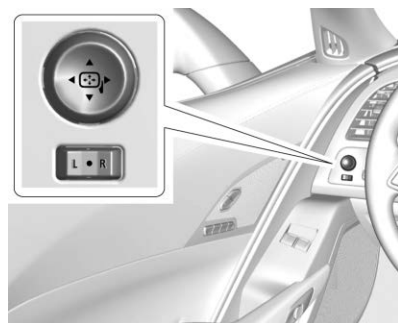
Convex Mirrors

Warning

A convex mirror can make things, like other vehicles, look farther away than they really are. If you cut too sharply into the right lane, you could hit a vehicle on the right. Check the inside mirror or glance over your shoulder before changing lanes.

The passenger side mirror is convex shaped. A convex mirror's surface is curved so more can be seen from the driver seat.

Power Mirrors



To adjust the mirrors:

1. Press L (Left) or R (Right) to select a mirror.
2. Press the control pad to adjust the mirror.
3. Return the switch to the center to deselect the mirror.

If the vehicle has the memory feature, a preferred mirror position can be stored. See *Memory Seats* ⇨ 60.

Folding Mirrors

To fold, pull the mirror toward the vehicle. Push the mirror outward to return it to the original position.

Heated Mirrors

 : Press to heat the mirrors.

See “Rear Window Defogger” under *Dual Automatic Climate Control System* ⇨ 151.

Automatic Dimming Mirror

If equipped, the driver side mirror automatically adjusts for the glare of headlamps from behind.

Reverse Tilt Mirrors

If equipped with memory seats, the passenger and/or driver mirror tilts to a preselected position when the vehicle is in R (Reverse). This allows the curb to be seen when parallel parking.

The mirror(s) return to the original position when:

- The vehicle is shifted out of R (Reverse), or remains in R (Reverse) for about 30 seconds.
- The ignition is turned off.
- The vehicle is driven in R (Reverse) above a set speed.

To turn this feature on or off, see *Vehicle Personalization* ⇨ 128.

Interior Mirrors

Interior Rearview Mirrors

Adjust the rearview mirror for a clear view of the area behind your vehicle.

If equipped with OnStar, there are three buttons at the bottom of the mirror. See *OnStar Overview* ⇨ 344.

To avoid accidental OnStar calls, clean the mirror with the ignition off. Do not spray glass cleaner directly on the mirror. Use a soft towel dampened with water.

Manual Rearview Mirror

Push the tab forward for daytime use and pull it rearward for nighttime use to avoid glare of the headlamps from behind.

Automatic Dimming Rearview Mirror

If equipped, automatic dimming reduces the glare of headlamps from behind. The dimming feature comes on when the vehicle is started.

Windows

Warning

Never leave a child, a helpless adult, or a pet alone in a vehicle, especially with the windows closed in warm or hot weather. They can be overcome by the extreme heat and suffer permanent injuries or even death from heat stroke.



Power Windows

Warning

Children could be seriously injured or killed if caught in the path of a closing window. Never leave the Remote Keyless Entry (RKE) transmitter in a vehicle with children. When there are children in the rear seat, use the window lockout switch to prevent operation of the windows. See *Keys* ⇨ 25.



Power windows work when the vehicle is on or in ACC/ACCESSORY, or when Retained Accessory Power (RAP) is active. See *Retained Accessory Power (RAP)* ⇨ 183.

Using the window switch, press to open or pull to close the window.

The windows may be temporarily disabled if they are used repeatedly within a short time.

Window Express Movement

All windows can be opened without holding the window switch. Press the switch down fully and quickly release to express open the window.

If equipped, pull the window switch up fully and quickly release to express close the window.

Briefly press or pull the window switch in the same direction to stop that window's express movement.

Window Automatic Reversal System

The express-close feature will reverse window movement if it comes in contact with an object. Extreme cold or ice could cause the window to auto-reverse. The window will operate normally after the object or condition is removed.

Automatic Reversal System Override

Warning

If automatic reversal system override is active, the window will not reverse automatically. You or others could be injured and the window could be damaged. Before using automatic reversal system override, make sure that all people and obstructions are clear of the window path.

When the engine is on, override the automatic reversal system by pulling and holding the window switch if conditions prevent it from closing.

Programming the Power Windows

Programming may be necessary if the vehicle's battery has been disconnected or discharged. If the window will not express close, program each express-close window:

1. Close all doors.
2. Turn the ignition on or to ACC/ACCESSORY.
3. Partially open the window to be programmed. Then close it and continue to pull the switch briefly after the window has fully closed.
4. Open the window and continue to press the switch briefly after the window has fully opened.

Window Operation with Convertible Top

Windows automatically lower fully when the convertible top is lowered or raised. See *Convertible Top* ⇨ 52.

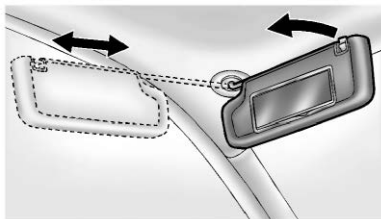
Window Indexing

If the window freezes to the door:

1. Push the top of the window inward while opening the door.
2. Clear all snow and ice from the door and glass.
3. Open the window completely and then close it.
4. Close the door.

When fully closed, indexing automatically lowers the window a small amount when the door is opened. When the door is closed, the window will raise to its previous position. If either window does not index properly, it could be due to loss of power. Before seeing your dealer for service, program the power windows.

Sun Visors



Pull the sun visor down to block glare. Detach the sun visor from the center mount to pivot to the side window and, if equipped, extend along the rod.

Caution

Close the vanity mirror cover before closing the convertible top, otherwise damage may occur.

Roof

Roof Panel

If equipped with a removable roof panel, use the following procedures to remove or install it.

Caution

If a roof panel is dropped or rested on its edges, the roof panel, paint, and/or weatherstripping may be damaged. Always place the roof panel in the stowage receivers after removing it from the vehicle.

Caution

Use care when storing and removing the roof panel. The roof panel pins and vehicle finish could be damaged if they contact the rear adjustable performance wing, if equipped.

Removing the Roof Panel

Warning

Do not remove a roof panel while the vehicle is moving. The panel could fall into the vehicle and strike an occupant and cause you to lose control. It could also fly off and strike another vehicle. Remove the roof panel only when the vehicle is parked.

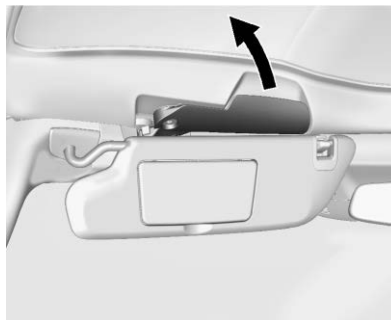
It may be necessary to have help removing the roof panel.

To remove:

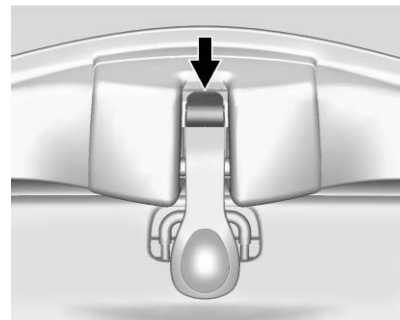
1. Shift an automatic transmission into P (Park) or a manual transmission into 1 (First) or R (Reverse).
2. Turn the ignition off and set the parking brake.
3. Lower both sun visors.
4. Open the rear hatch/trunk and remove any items that may interfere with proper storage of the roof panel.

5. Lower the windows.

There are two release handles on the front and one release handle on the rear of the roof panel.



6. To unlock the front release handles, pull them outward, turning fully.



7. Press the button on the front of the rear release handle to unlock it. The latch lever will open.
8. Stand on one side of the vehicle, and if necessary, have someone stand on the other side. Together, carefully lift the front edge of the roof panel up and forward. Avoid dropping the rear edge downward.
9. When the roof panel is loose, grasp it as close to the center as possible and lift it away from the vehicle.

Storing the Roof Panel

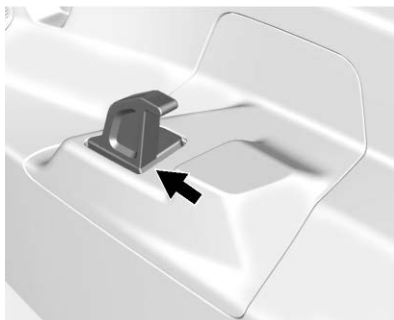
Warning

If a roof panel is not stored properly, it could be thrown about the vehicle in a crash or sudden maneuver. People in the vehicle could be injured. Always use the stowage receivers.

Caution

Dirt, dust, or other contaminants on the removable roof panel or cargo shade could cause damage to the finish of the roof panel if it is stored under the shade. Remove the cargo shade when storing the roof in the rear compartment.

1. Turn the roof panel so that the front edge of the panel is facing the front of the vehicle.



2. Insert the front of the roof panel so that the indents lay on top of the receivers.



3. Line up the rear roof panel pins so that they drop into the receivers on the back of the storage area.
4. Press down firmly to seat the pins in the rear receivers.

Installing the Roof Panel

Warning

An improperly attached roof panel may fall into or fly off the vehicle. You or others could be injured. After installing the roof panel, always check that it is firmly attached by pushing up on the underside of the panel. Check now and then to be sure the roof panel is firmly in place.

Caution

Installing the roof with the release handles in the closed position could cause damage to the

(Continued)

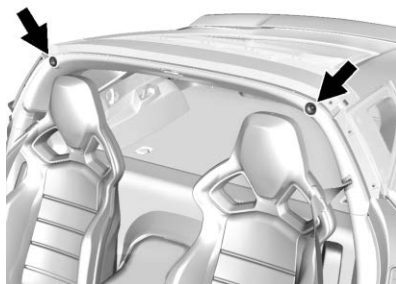
Caution (Continued)

interior trim. Always move handles to the open position when installing the roof.

It is easier if two people install the roof panel.

To install:

1. Shift an automatic transmission into P (Park). Shift a manual transmission into 1 (First) or R (Reverse).
2. Turn the ignition off and set the parking brake.
3. To remove the roof panel, pull up on the rear edge and remove it from the storage area.
4. Carefully place the roof panel over the top of the vehicle.



5. Position the rear edge of the roof panel next to the weatherstrip on the back of the roof opening. Then align and fit the pins at the rear of the roof panel inside the openings in the rear overhead weatherstrip. Gently lower the front edge of the roof panel to the front of the roof opening.
6. Check that the weatherstripping on each side of the roof panel is under the panel.
7. Make sure the front release handles are in the full open position.

8. Push the roof firmly downward to engage the pins.
9. Turn the front release handles inward so that they fully latch to the closed position. It is critical that the handles fully latch.



10. Push back and up on the rear release handle to insert the hook in the loop.
11. Push and pull the roof panel up and down and side to side to ensure the roof panel is securely installed.

Maintaining the Roof Panel

Caution

Using glass cleaner on a painted roof panel could damage the panel. The repairs would not be covered by the vehicle warranty. Do not use glass cleaner on the painted roof panel.

When cleaning, removing, and/or storing the roof panel:

- Flush with water to remove dust and dirt, then dry the panel.
- Do not use abrasive cleaning materials on the panel.

Convertible Top

If equipped with a convertible top, review the following before operating:



Warning

While opening or closing the convertible top, people can be injured by the moving parts of the tonneau cover or convertible top. Maintain visual contact with the top while it is being operated.

Caution

Follow these guidelines when operating the convertible top or damage can occur:

- Remove all items from the roof, trunk lid, or tonneau cover before operating.

(Continued)

Caution (Continued)

- Remove all objects from the trunk that may contact the convertible top when it is operated.
- Do not leave the vehicle with the convertible top open.
- Do not exceed 50 km/h (31 mph) until the top has completely closed or opened.
- Do not open or close the top while driving in high wind conditions.
- Do not operate the convertible top multiple times in a short period of time without starting the engine to avoid draining the vehicle battery.

(Continued)

Caution (Continued)

- Do not open or store the convertible top when it is dirty or wet. This could result in stains, mildew, or other damage.
- Only store the vehicle with the top fully closed.

Opening the Convertible Top — Instrument Panel Switch

1. Remove all objects from the top of the tonneau cover and forward of the partition. Place the partition in the rear storage area in the upright position. Fasten both sides of the partition to the posts just below the tonneau cover. See *Rear Storage* ⇨ 95.
2. Close the trunk.
3. Start the vehicle or place it in ACC/ACCESSORY.
4. When possible, operate the convertible top when the vehicle is stopped. The top can

be operated while driving below 50 km/h (31 mph) and will stop if that speed is exceeded. The top operation will take approximately 25 seconds. Make sure the top operation can be completed before that speed is reached.



5. Press and hold the bottom of . The windows will automatically lower.
6. After the convertible top is completely open, a chime sounds and a DIC message displays. Release the switch.

If the radio is on, the sound may be muted for a brief time due to a new audio system equalization being loaded.

Opening the Convertible Top — RKE Transmitter

1. Make sure the vehicle is off.
2. The trunk partition must already be in place and the trunk closed. See *Rear Storage* ⇨ 95.
3. Keep visual contact with the vehicle. Press and release on the RKE transmitter and then quickly press and hold .
4. Hold until the top is completely opened and the exterior lamps flash. A chime will sound.

If the top stops before it has completely opened, press and then press again.

54 Keys, Doors, and Windows

If the top still stops opening try the following:

- Move closer to the vehicle.
- Hold  until the operation is complete.
- Interference from other RKE transmitters or devices may interrupt the operation. Press  and then  again. If the top still does not open, use the convertible switch in the vehicle.

The convertible top cannot be closed using the RKE transmitter.

See *Remote Keyless Entry (RKE) System Operation* ⇨ 27.

Closing the Convertible Top

1. Make sure the sun visor mirror covers are closed and the sun visors are stored in the center mount position.

2. Remove all objects from the top of the tonneau cover and forward of the partition. Place the partition in the rear storage area in the upright position. Fasten both sides of the partition to the posts just below the tonneau cover. See *Rear Storage* ⇨ 95.
3. Close the trunk.
4. Start the vehicle or place it in ACC/ACCESSORY.
5. When possible, operate the convertible top when the vehicle is stopped. The top can be operated while driving below 50 km/h (31 mph) and will stop if that speed is exceeded. The top operation will take approximately 25 seconds. Make sure the top operation can be completed before that speed is reached.



6. Press and hold the top of . The windows will automatically lower.
7. After the convertible top is completely closed, a chime sounds and a DIC message displays. Release the switch. Raise the windows if needed.

If the radio is on, the sound may be muted for a brief time due to a new audio system equalization being loaded.

Troubleshooting

Check the following if the convertible top switch  is not operating:

- The ignition should be on or in ACC/ACCESSORY, or Retained Accessory Power (RAP) should be active.
- The trunk lid should be closed and the trunk partition in place. A DIC message will display.
- If the ONLY MANUAL OPERATION OF TOP POSSIBLE message is displayed on the DIC, see "Manual Movement of Top" later in this section.
- At cooler outside temperatures, the convertible top may not open. It is possible to close the top down to temperatures of about -20 °C (-4 °F). A DIC message will display if the top will not open due to low temperature. If necessary, move the vehicle to a heated indoor area to operate the top.

- If the top has recently been cycled repeatedly or left in an intermediate state, it will be temporarily disabled. A DIC message displays. Normal operation will be restored within 10 minutes after the system has cooled.
- If the vehicle battery is low, the power top operation may be disabled. Try to start the vehicle. A DIC message displays.
- If the battery has recently been reconnected or if the vehicle has been jump started, the top may not operate until the power windows have been indexed. Complete the power window indexing procedure. See *Power Windows* ⇨ 46.

Other features may be affected while operating the convertible top:

- The trunk can only be opened with the key until the convertible top is completely opened or closed.

- Do not try to start the vehicle while opening the top with the RKE transmitter. A DIC message may display. Release both buttons and wait a few seconds before starting the vehicle normally.
- The passive door unlock feature may not operate properly while using the RKE transmitter to open the convertible top.
- The windows cannot close while the top is moving.
- When driving with the top not fully secured, chimes can be heard above 80 km/h (50 mph).

If the vehicle battery has been disconnected and reconnected, the fuses were pulled or replaced, or a jump start was performed, the TOP NOT SECURE message may display. Press and hold  on the RKE transmitter or on the instrument panel to open/close the top until this message is cleared.

Partial Top Cycling

If the convertible top operation is stopped before completion, the top will temporarily hold its position. If the ignition is on or in ACC/ACCESSORY, the top will be held for up to five minutes. If the vehicle is moving or off, the amount of time will vary from a few seconds to about a minute.

Beeps and DIC messages will be displayed before the top will move. When this occurs, immediately finish the convertible top operation by pressing  on the RKE transmitter or on the instrument panel again until it completes.

If the top cannot be secured, keep clear of the top components. In some conditions the top may move quickly.

Do not drive with the convertible top in an unsecured position. The top components may move unexpectedly. In some cases the top may not be able to be power operated. If this occurs, follow the DIC messages displayed.

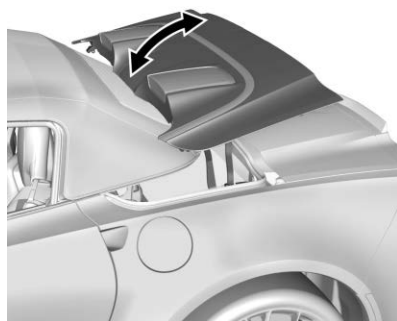
If the tonneau cover is not secured and latched, and the vehicle is moving above 10 km/h (6 mph), the tonneau cover may automatically move to a stable position.

Manual Movement of Top

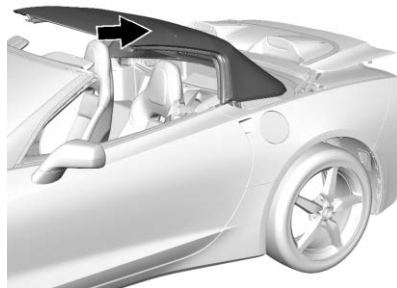
If the DIC displays the ONLY MANUAL OPERATION OF TOP POSSIBLE message:

1. Press  to either open or close the top. Press the switch in the opposite direction if one does not work.
2. If the top moves, continue pressing the switch in that direction for at least five seconds. The top should then work normally.

If the top does not respond in either direction, use the following procedure to manually adjust the convertible top and tonneau cover if they are retracted but not latched. This requires more than one person.



1. On each side of the tonneau cover, lift and pivot rearward into the fully open position.



2. Lift and pivot the convertible top rearward into the fully stowed position.

If the convertible top does not operate after this adjustment, close the tonneau cover and take it to your dealer for service.

Cleaning the Convertible Top

The convertible top should be cleaned often. Do not use high-pressure car washes as these may cause water to enter the vehicle.

Hand wash the convertible top in partial shade. Use mild soap, lukewarm water, and a soft sponge. A chamois or cloth may leave lint on the top, and a brush can chafe the threads in the top fabric. Do not use detergents, harsh cleaners, solvents, or bleaching agents.

Wet the entire top and let the soap remain on the fabric for a few minutes. Wash evenly to avoid spots or rings. When the top is very dirty, use a mild foam-type cleaner. Thoroughly rinse the entire vehicle, then let the top dry in direct sunlight.

To protect the convertible top:

- Make sure the convertible top is completely dry before lowering it.
- Do not get any cleaner on the vehicle's painted finish; it could leave streaks.

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Head Restraints

The vehicle's front seats have head restraints in the outboard seating positions that cannot be adjusted.

The front seat outboard head restraints are not removable.

Front Seats

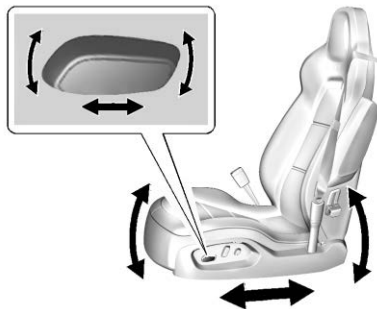
Power Seat Adjustment

Warning

The power seats will work with the ignition off. Children could operate the power seats and be injured. Never leave children alone in the vehicle.

Warning

You can lose control of the vehicle if you try to adjust a driver seat while the vehicle is moving. Adjust the driver seat only when the vehicle is not moving.



To adjust the seat:

- Move the seat forward or rearward by sliding the control forward or rearward.
- Raise or lower the front part of the seat cushion by moving the front of the control up or down.
- Raise or lower the seat by moving the rear of the control up or down.

To adjust the seatback, see *Reclining Seatbacks* ⇨ 60.

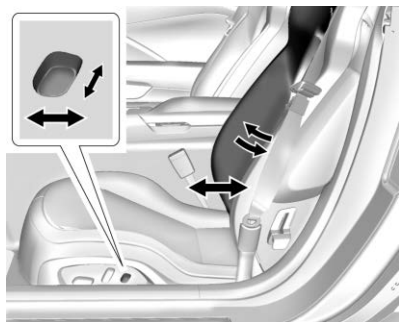
To adjust the lumbar support, see *Lumbar Adjustment* ⇨ 60.

Seat Travel Limit

If a seat is moved all the way to the rear and/or the seatback is reclined so that it makes contact with the carpet, all rearward seat movement will stop. Normal operation of the seat will resume when the seatback is no longer in contact with the carpet. This is normal.

If a seat is folded forward, all rearward or downward seat movement will stop. Normal operation will resume when the seat is returned to an upright position.

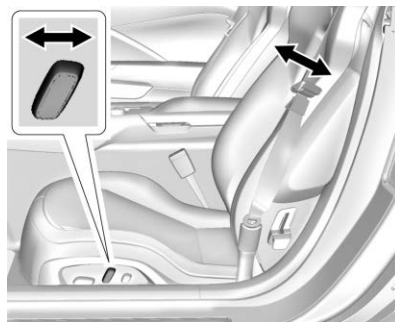
Lumbar Adjustment



To adjust the lumbar and bolster support (if equipped):

- Press and hold the control forward to increase or rearward to decrease lumbar support.
- If equipped, press and hold the control upward to increase or downward to decrease the side bolster support.

Reclining Seatbacks



To adjust the seatback:

- Tilt the top of the control rearward to recline.
- Tilt the top of the control forward to raise.

Warning

Sitting in a reclined position when the vehicle is in motion can be dangerous. Even when buckled up, the seat belts cannot do their job.

For proper protection when the vehicle is in motion, have the seatback upright. Then sit well back in the seat and wear the seat belt properly.

Memory Seats



If equipped, memory seats allow two drivers to save and recall their unique seat positions for driving the vehicle, and a shared exit position for getting out of the vehicle. Other feature positions may also be saved, such as power mirrors and power steering wheel, if equipped. Memory positions are linked to RKE transmitter 1 or 2 for automatic memory recalls.

Before saving, adjust all available memory feature positions. Turn the ignition on and then press and release SET; a beep will sound. Then immediately press and hold 1, 2, or  (Exit) until two beeps sound. To manually recall these positions, press and hold 1, 2, or  until the saved position is reached. Follow the instructions under "Saving Memory Positions."

The vehicle identifies the current driver's RKE transmitter number (1–8). See *Remote Keyless Entry (RKE) System Operation* ⇨ 27. Only RKE transmitters 1 and 2 can be used for automatic memory recalls. A Driver Information Center (DIC)

welcome message indicating the transmitter number may display for the first few ignition cycles following a transmitter change. For Auto Memory Recall to work properly, save the positions to the memory button (1 or 2) matching the RKE transmitter number displayed in the DIC welcome message. Carry the linked RKE transmitter when entering the vehicle.

Memory adjustments may not be available upon delivery or after service until steps in "Saving Memory Positions" section are performed.

Vehicle Personalization Settings

- To have the Auto Memory Recall movement begin when the vehicle is started, select the Settings menu, then Vehicle, then Comfort and Convenience, and then Auto Memory Recall. Select On or Off. See "Auto Memory Recall" later in this section.

- To begin Easy Exit Recall movement when the ignition is turned off and the driver door is opened, or when the ignition is turned off with the driver door already opened, select the Settings menu, then Vehicle, then Comfort and Convenience, and then Easy Exit Options. Select On or Off. See "Easy Exit Recall" later in this section.
- See *Vehicle Personalization* ⇨ 128 for additional setting information.

Identifying Driver Number

To identify the driver number:

1. Start the vehicle with a different key or RKE transmitter. The DIC should display the driver number; 1 or 2. Turn the ignition off and remove the key or RKE transmitter from the vehicle.
2. Start the vehicle with the initial key or RKE transmitter. The DIC should display the other driver number not shown in Step 1.

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Saving Memory Positions

Read these instructions completely before saving memory positions.

To save preferred driving positions 1 and 2:

1. Turn the ignition on or to ACC/ACCESSORY.

A DIC welcome message may indicate driver number 1 or 2.

2. Adjust all available memory features to the desired driving position.
3. Press and release SET; a beep will sound.
4. Immediately press and hold the 1 or 2 memory button matching the above DIC welcome message until two beeps sound.

If too much time passes between releasing SET and pressing 1, the memory position will not be saved and two beeps will not sound. Repeat Steps 3 and 4.

1 or 2 corresponds to the driver number. See "Identifying Driver Number" previously in this section.

5. Repeat Steps 1–4 for a second driver using 1 or 2.

To save the position for  and easy exit features, repeat Steps 1–4 using . This saves the position for getting out of the vehicle.

Save preferred memory feature positions to both 1 and 2 if you are the only driver.

Manually Recalling Memory Positions

Press and hold 1, 2, or  to recall the previously saved memory positions.

To stop Manual Memory Recall movement, release 1, 2, or  or press any of the following controls:

- Power seat
- Memory SET
- Power mirror, with the driver or passenger side mirror selected

- Power steering wheel, if equipped

Auto Memory Recall

The vehicle identifies the number of the current driver's RKE transmitter (1–8). See *Remote Keyless Entry (RKE) System Operation* ⇨ 27. If the RKE transmitter is 1 or 2, and Auto Memory Recall is programmed on in vehicle personalization, the positions saved to the same memory button number 1 or 2 are automatically recalled when the ignition is turned on, or turned from off to ACC/ACCESSORY. RKE transmitters 3–8 will not provide automatic memory recalls.

To turn Auto Memory Recall on or off, see "Vehicle Personalization Settings" previously in this section and *Vehicle Personalization* ⇨ 128.

For vehicles equipped with an automatic transmission, the transmission must be in P (Park) to start Auto Memory Recall. Auto Memory Recall will complete if the

vehicle is shifted out of P (Park) prior to reaching the stored memory position.

For vehicles equipped with a manual transmission, the parking brake must be set to start Auto Memory Recall. Auto Memory Recall will complete if the parking brake is released prior to reaching the stored memory position.

To stop Auto Memory Recall movement, turn the ignition off or press any of the following controls:

- Power seat
- Memory SET, 1, 2, or 
- Power mirror, with the driver or passenger side mirror selected
- Power steering wheel, if equipped

If the saved memory seat position does not automatically recall or recalls to the wrong positions, the driver's RKE transmitter number (1 or 2) may not match the memory button number that positions were

saved to. Try saving the position to the other memory button or try the other RKE transmitter.

Easy Exit Recall

Easy Exit Recall is not linked to an RKE transmitter. The position saved to  is used for all drivers. To turn Easy Exit Recall on or off, see "Vehicle Personalization Settings" previously in this section and *Vehicle Personalization* ⇨ 128.

If turned on, the position saved to  is automatically recalled when one of the following occurs:

- The vehicle is turned off and the driver door is opened within a short time.
- The vehicle is turned off with the driver door open.

To stop Easy Exit Recall movement, press any of the following memory controls:

- Power seat
- Memory SET, 1, 2, or 

- Power mirror, with the driver or passenger side mirror selected
- Power steering wheel, if equipped

Seat Travel Limit

Memory recalls may not be performed if the seatback is folded forward or positioned rearward in contact with the carpet. Move the seat and/or seatback away from the carpet until memory recall function is available.

Obstructions

If something has blocked the driver seat and/or power steering wheel while recalling a memory position, the recall may stop. Remove the obstruction and try the recall again. If the memory position still does not recall, see your dealer for service.

Seatback Latches

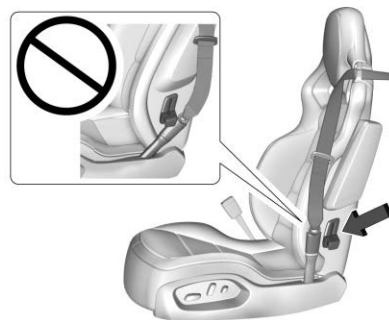
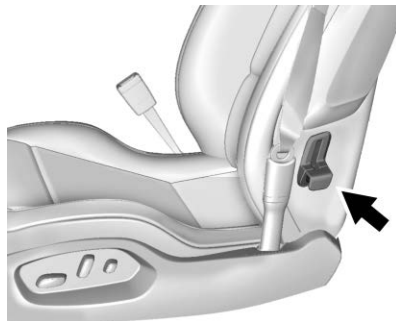


If equipped, lift the latch to fold a seatback forward.

Warning

If either seatback is not locked, it could move forward in a sudden stop or crash. That could cause injury to the person sitting there. Always push and pull on the seatbacks to be sure they are locked.

To return a seatback to the sitting position, push the seatback rearward. Push and pull on the seatback to make sure it is locked in place.



Warning

When returning the seatback upright, make sure the seat belt is routed properly and is not caught behind the seatback latch. You could be seriously injured, or even killed, by not wearing the seat belt properly. See *How to Wear Seat Belts Properly* ⇨ 67.

In some vehicles, when the seatback is folded forward, some power seat adjustments may not be

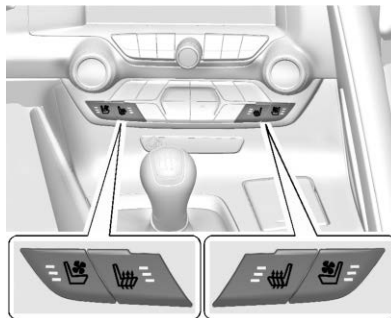
available.

See *Power Seat Adjustment* ⇨ 59
and *Reclining Seatbacks* ⇨ 60.

Heated and Ventilated Front Seats

Warning

If temperature change or pain to the skin cannot be felt, the seat heater may cause burns. To reduce the risk of burns, use care when using the seat heater, especially for long periods of time. Do not place anything on the seat that insulates against heat, such as a blanket, cushion, cover, or similar item. This may cause the seat heater to overheat. An overheated seat heater may cause a burn or may damage the seat.



Driver and Redundant Passenger Controls

If equipped, the driver buttons are on the center stack. To operate, the ignition must be on.

Press  or  on the left side of the climate control panel to ventilate or heat the driver seat. A ventilated seat has a fan that pulls or pushes air through the seat. The air is not cooled.



Passenger Controls

The passenger buttons are also on the right side of the instrument panel under the air vent. Press  or  to heat or ventilate the passenger seat. The driver can also turn on or off the passenger heated and ventilated seats using the buttons on the right side of the climate control panel.

Press the button once for the highest setting. With each press of the button, the seat will change to the next lower setting, and then to the off setting. The indicator lights show three for the highest setting

and one for the lowest. If the heated seats are on high, the level may automatically be lowered after approximately 30 minutes.

The passenger seat may take longer to heat up.

Remote Start Heated and Ventilated Seats

During a remote start (if equipped), the heated or ventilated seats can be turned on automatically. When it is cold outside, the heated seats turn on, and when it is hot outside the ventilated seats turn on. The heated or ventilated seats are canceled when the ignition is turned on. Press the heated or ventilated seat button to use the heated or ventilated seats after the vehicle is started.

The heated or ventilated seat indicator lights do not turn on during a remote start.

The temperature performance of an unoccupied seat may be reduced. This is normal.

The heated or ventilated seats will not turn on during a remote start unless they are enabled in the vehicle personalization menu. See *Remote Vehicle Start* ⇨ 33 and *Vehicle Personalization* ⇨ 128.

Seat Belts

This section describes how to use seat belts properly, and some things not to do.

Warning

Do not let anyone ride where a seat belt cannot be worn properly. In a crash, if you or your passenger(s) are not wearing seat belts, injuries can be much worse than if you are wearing seat belts. You can be seriously injured or killed by hitting things inside the vehicle harder or by being ejected from the vehicle. In addition, anyone who is not buckled up can strike other passengers in the vehicle.

It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a collision, passengers riding in these areas are more likely to be seriously injured or killed. Do not allow

(Continued)

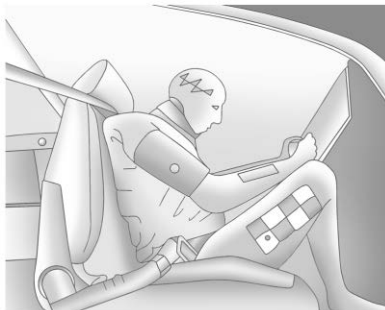
Warning (Continued)

passengers to ride in any area of the vehicle that is not equipped with seats and seat belts.

Always wear a seat belt, and check that all passenger(s) are restrained properly too.

This vehicle has indicators as a reminder to buckle the seat belts. See *Seat Belt Reminders* ⇨ 111.

Why Seat Belts Work



When riding in a vehicle, you travel as fast as the vehicle does. If the vehicle stops suddenly, you keep going until something stops you. It could be the windshield, the instrument panel, or the seat belts!

When you wear a seat belt, you and the vehicle slow down together. There is more time to stop because you stop over a longer distance and, when worn properly, your strongest bones take the forces from the seat belts. That is why wearing seat belts makes such good sense.

Questions and Answers About Seat Belts

Q: Will I be trapped in the vehicle after a crash if I am wearing a seat belt?

A: You *could* be — whether you are wearing a seat belt or not. Your chance of being conscious during and after a crash, so you *can* unbuckle and get out, is *much* greater if you are belted.

Q: If my vehicle has airbags, why should I have to wear seat belts?

A: Airbags are supplemental systems only. They work *with* seat belts — not instead of them. Whether or not an airbag is provided, all occupants still have to buckle up to get the most protection.

Also, in nearly all states and in all Canadian provinces, the law requires wearing seat belts.

How to Wear Seat Belts Properly

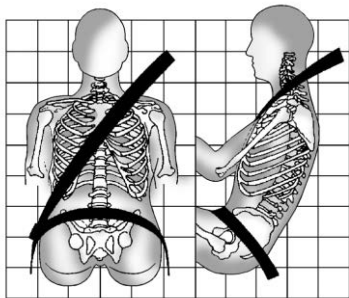
Follow these rules for everyone's protection.

There are additional things to know about seat belts and children, including smaller children and infants. If a child will be riding in the vehicle, see *Older Children* ⇨ 85 or *Infants and Young Children* ⇨ 86. Review and follow the rules for children in addition to the following rules.

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It is very important for all occupants to buckle up. Statistics show that unbelted people are hurt more often in crashes than those who are wearing seat belts.

There are important things to know about wearing a seat belt properly.



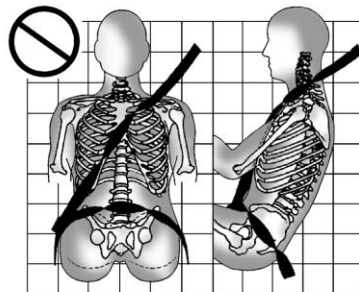
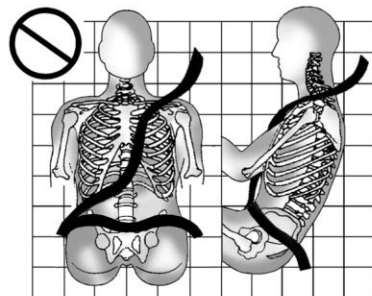
- Sit up straight and always keep your feet on the floor in front of you (if possible).
- Always use the correct buckle for your seating position.
- Wear the lap part of the belt low and snug on the hips, just touching the thighs. In a crash,

this applies force to the strong pelvic bones and you would be less likely to slide under the lap belt. If you slid under it, the belt would apply force on your abdomen. This could cause serious or even fatal injuries.

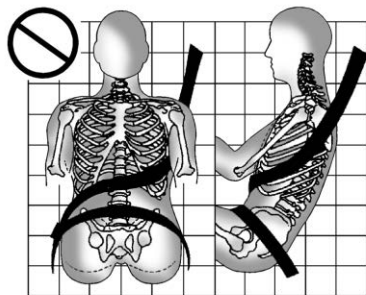
- Wear the shoulder belt over the shoulder and across the chest. These parts of the body are best able to take belt restraining forces. The shoulder belt locks if there is a sudden stop or crash.

Warning

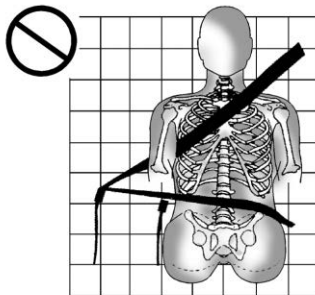
You can be seriously injured, or even killed, by not wearing your seat belt properly.



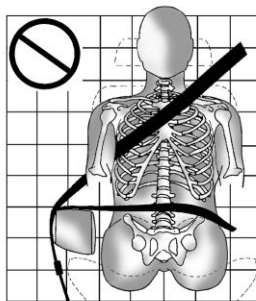
Never allow the lap or shoulder belt to become loose or twisted.



Never wear the shoulder belt under both arms or behind your back.



Always use the correct buckle for your seating position.



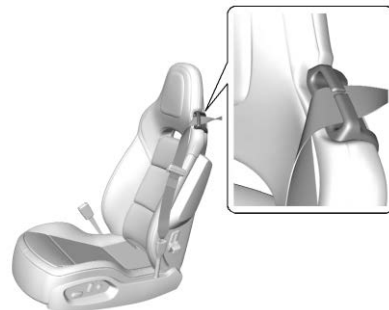
Never route the lap or shoulder belt over an armrest.

Always use the seat belt guide to position the shoulder belt over the shoulder and across the chest.

Lap-Shoulder Belt

All seating positions in the vehicle have a lap-shoulder belt.

The following instructions explain how to wear a lap-shoulder belt properly.

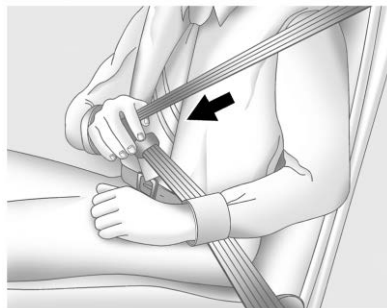


GT Seat Shown, Competition Sport Seat Similar

1. The seat has a seat belt guide. The seat belt guide helps position the shoulder belt over the shoulder and across the

chest of smaller adults and of older children who have outgrown booster seats. To use the seat belt guide, slide the edge of the belt webbing through the opening on the guide. Be sure the belt is not twisted. If a child will be riding in the vehicle, see *Older Children* ⇨ 85 or *Infants and Young Children* ⇨ 86.

2. Adjust the seat, if the seat is adjustable, so you can sit up straight. To see how, see "Seats" in the Index.



3. Pick up the latch plate and pull the belt across you. Do not let it get twisted.

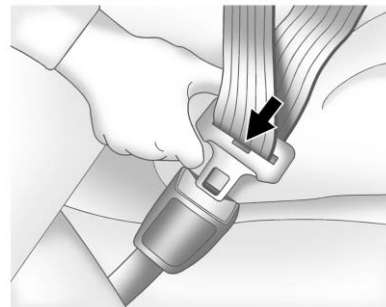
The lap-shoulder belt may lock if you pull the belt across you very quickly. If this happens, let the belt go back slightly to unlock it. Then pull the belt across you more slowly.

If the shoulder portion of a passenger belt is pulled out all the way, the child restraint locking feature may be engaged. See *Child Restraint Systems* ⇨ 89. If this occurs, let the belt go back all the way and start again. If the locking feature stays engaged after letting the belt go back to stowed position on the seat, move the seat rearward or recline the seat until the shoulder belt retractor lock releases.

Engaging the child restraint locking feature in the front outboard seating position may

affect the passenger sensing system. See *Passenger Sensing System* ⇨ 79.

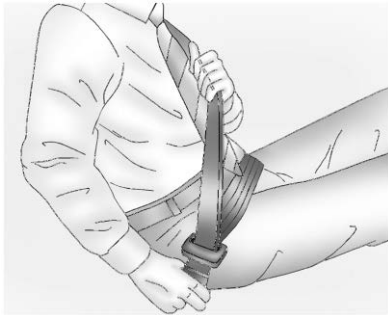
If the shoulder portion of the driver belt is pulled out all the way, the shoulder belt retractor lock feature may be engaged. If this happens, let the belt go back all the way and start again. If the locking feature stays engaged after letting the belt go back to stowed position on the seat, move the seat rearward or recline the seat until the shoulder belt retractor lock releases.



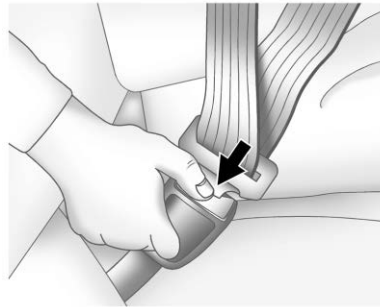
4. Push the latch plate into the buckle until it clicks.

Pull up on the latch plate to make sure it is secure. If the belt is not long enough, see *Seat Belt Extender* ⇨ 72.

Position the release button on the buckle so that the seat belt could be quickly unbuckled if necessary.



5. To make the lap part tight, pull up on the shoulder belt.



To unlatch the belt, push the button on the buckle. The belt should return to its stowed position.

Always stow the seat belt slowly. If the seat belt webbing returns quickly to the stowed position, the retractor may lock and cannot be pulled out. If this happens, pull the seat belt straight out firmly to unlock the webbing, and then release it. If the webbing is still locked in the retractor, see your dealer.

Before a door is closed, be sure the seat belt is out of the way. If a door is slammed against a seat belt, damage can occur to both the seat belt and the vehicle.

Seat Belt Pretensioners

This vehicle has seat belt pretensioners for the front outboard occupants. Although the seat belt pretensioners cannot be seen, they are part of the seat belt assembly. They can help tighten the seat belts during the early stages of a moderate to severe frontal, near frontal, or rear crash if the threshold conditions for pretensioner activation are met. Seat belt pretensioners can also help tighten the seat belts in a side crash or a rollover event.

Pretensioners work only once. If the pretensioners activate in a crash, the pretensioners and probably other parts of the vehicle's seat belt system will need to be replaced. See *Replacing Seat Belt System Parts after a Crash* ⇨ 73.

Do not sit on the outboard seat belt while entering or exiting the vehicle or at any time while sitting in the seat. Sitting on the seat belt can damage the webbing and hardware.

Seat Belt Use During Pregnancy

Seat belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear seat belts.



A pregnant woman should wear a lap-shoulder belt, and the lap portion should be worn as low as possible, below the rounding, throughout the pregnancy.

The best way to protect the fetus is to protect the mother. When a seat belt is worn properly, it is more likely

that the fetus will not be hurt in a crash. For pregnant women, as for anyone, the key to making seat belts effective is wearing them properly.

Seat Belt Extender

If the vehicle's seat belt will fasten around you, you should use it.

But if a seat belt is not long enough, your dealer will order you an extender. When you go in to order it, take the heaviest coat you will wear, so the extender will be long enough for you. To help avoid personal injury, do not let someone else use it, and use it only for the seat it is made to fit. The extender has been designed for adults. Never use it for securing child restraints. For more information on the proper use and fit of seat belt extenders see the instruction sheet that comes with the extender.

Safety System Check

Periodically check the seat belt reminder, seat belts, buckles, latch plates, retractors, shoulder belt height adjusters (if equipped), and seat belt anchorages to make sure they are all in working order. Look for any other loose or damaged seat belt system parts that might keep a seat belt system from performing properly. See your dealer to have it repaired. Torn, frayed, or twisted seat belts may not protect you in a crash. Torn or frayed seat belts can rip apart under impact forces. If a belt is torn or frayed, have it replaced immediately. If a belt is twisted, it may be possible to untwist by reversing the latch plate on the webbing. If the twist cannot be corrected, ask your dealer to fix it.

Make sure the seat belt reminder light is working. See *Seat Belt Reminders* ⇨ 111.

Keep seat belts clean and dry. See *Seat Belt Care* ⇨ 73.

Seat Belt Care

Keep belts clean and dry.

Seat belts should be properly cared for and maintained.

Seat belt hardware should be kept dry and free of dust or debris. As necessary, exterior hard surfaces and seat belt webbing may be lightly cleaned with mild soap and water. Ensure there is not excessive dust or debris in the mechanism. If dust or debris exists in the system please see the dealer. Parts may need to be replaced to ensure proper functionality of the system.

Warning

Do not bleach or dye seat belt webbing. It may severely weaken the webbing. In a crash, they might not be able to provide adequate protection. Clean and rinse seat belt webbing only with mild soap and lukewarm water. Allow the webbing to dry.

Replacing Seat Belt System Parts after a Crash

Warning

A crash can damage the seat belt system in the vehicle. A damaged seat belt system may not properly protect the person using it, resulting in serious injury or even death in a crash. To help make sure the seat belt systems are working properly after a crash, have them inspected and any necessary replacements made as soon as possible.

After a minor crash, replacement of seat belts may not be necessary. But the seat belt assemblies that were used during any crash may have been stressed or damaged. See your dealer to have the seat belt assemblies and seat belt guides inspected or replaced.

New parts and repairs may be necessary even if the seat belt system was not being used at the time of the crash.

Have the seat belt pretensioners checked if the vehicle has been in a crash, or if the airbag readiness light stays on after you start the vehicle or while you are driving. See *Airbag Readiness Light* ⇨ 112.

Airbag System

The vehicle has the following airbags:

- A frontal airbag for the driver
- A frontal airbag for the front outboard passenger
- A seat-mounted side impact airbag for the driver
- A seat-mounted side impact airbag for the front outboard passenger

All vehicle airbags have the word AIRBAG on the trim or on a label near the deployment opening.

For frontal airbags, the word AIRBAG is on the center of the steering wheel for the driver and on the instrument panel for the front outboard passenger.

For seat-mounted side impact airbags, the word AIRBAG is on the side of the seatback closest to the door.

Airbags are designed to supplement the protection provided by seat belts. Even though today's airbags

are also designed to help reduce the risk of injury from the force of an inflating bag, all airbags must inflate very quickly to do their job.

Here are the most important things to know about the airbag system:

Warning

You can be severely injured or killed in a crash if you are not wearing your seat belt, even with airbags. Airbags are designed to work with seat belts, not replace them. Also, airbags are not designed to inflate in every crash. In some crashes seat belts are the only restraint. See *When Should an Airbag Inflate?* ⇨ 76.

Wearing your seat belt during a crash helps reduce your chance of hitting things inside the vehicle or being ejected from it. Airbags are “supplemental restraints” to the seat belts. Everyone in the vehicle should wear a seat belt properly, whether or not there is an airbag for that person.

Warning

Because airbags inflate with great force and faster than the blink of an eye, anyone who is up against, or very close to, any airbag when it inflates can be seriously injured or killed. Do not sit unnecessarily close to any airbag, as you would be if sitting on the edge of the seat or leaning forward. Seat belts help keep you in position before and during a crash. Always wear the seat belt, even with airbags. The driver should sit as far back as possible while still maintaining control of the vehicle. The seat belts and the front outboard passenger airbags are most effective when you are sitting well back and upright in the seat with both feet on the floor.

Occupants should not lean on or sleep against the door or side windows in seating positions with seat-mounted airbags.

Warning

Children who are up against, or very close to, any airbag when it inflates can be seriously injured or killed. Always secure children properly in the vehicle. To read how, see *Older Children* ⇨ 85 or *Infants and Young Children* ⇨ 86.



There is an airbag readiness light on the instrument cluster which shows the airbag symbol.

The system checks the airbag electrical system for malfunctions. The light tells you if there is an electrical problem. See *Airbag Readiness Light* ⇨ 112.

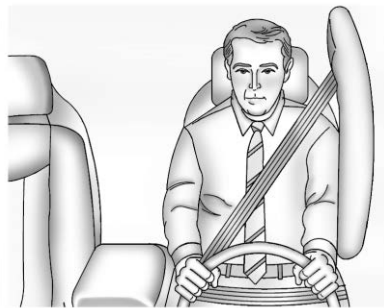
Where Are the Airbags?



The driver frontal airbag is in the center of the steering wheel.



The front outboard passenger frontal airbag is in the passenger side instrument panel.



Driver Side Shown, Passenger Side Similar

The driver and front outboard passenger seat-mounted side impact airbags are in the side of the seatbacks closest to the door.

⚠ Warning

If something is between an occupant and an airbag, the airbag might not inflate properly or it might force the object into that person causing severe injury or even death. The path of an
(Continued)

Warning (Continued)

inflating airbag must be kept clear. Do not put anything between an occupant and an airbag, and do not attach or put anything on the steering wheel hub or on or near any other airbag covering.

Do not use seat accessories that block the inflation path of a seat-mounted side impact airbag.

When Should an Airbag Inflate?

This vehicle is equipped with airbags. See *Airbag System* ⇨ 74. Airbags are designed to inflate if the impact exceeds the specific airbag system's deployment threshold. Deployment thresholds are used to predict how severe a crash is likely to be in time for the airbags to inflate and help restrain the occupants. The vehicle has electronic sensors that help the airbag system determine the

severity of the impact. Deployment thresholds can vary with specific vehicle design.

Frontal airbags are designed to inflate in moderate to severe frontal or near frontal crashes to help reduce the potential for severe injuries, mainly to the driver's or front outboard passenger's head and chest.

Whether the frontal airbags will or should inflate is not based primarily on how fast the vehicle is traveling. It depends on what is hit, the direction of the impact, and how quickly the vehicle slows down.

Frontal airbags may inflate at different crash speeds depending on whether the vehicle hits an object straight on or at an angle, and whether the object is fixed or moving, rigid or deformable, narrow or wide.

Frontal airbags are not intended to inflate during vehicle rollovers, in rear impacts, or in many side impacts.

In addition, the vehicle has advanced technology frontal airbags. Advanced technology frontal airbags adjust the restraint according to crash severity.

Seat-mounted side impact airbags are designed to inflate in moderate to severe side crashes depending on the location of the impact. Seat-mounted side impact airbags are not designed to inflate in frontal impacts, near frontal impacts, rollovers, or rear impacts. A seat-mounted side impact airbag is designed to inflate on the side of the vehicle that is struck.

In any particular crash, no one can say whether an airbag should have inflated simply because of the vehicle damage or repair costs.

What Makes an Airbag Inflate?

In a deployment event, the sensing system sends an electrical signal triggering a release of gas from the inflator. Gas from the inflator fills the airbag causing the bag to break out

of the cover. The inflator, the airbag, and related hardware are all part of the airbag module.

For airbag locations, see *Where Are the Airbags?* ⇨ 75.

How Does an Airbag Restrain?

In moderate to severe frontal or near frontal collisions, even belted occupants can contact the steering wheel or the instrument panel. In moderate to severe side collisions, even belted occupants can contact the inside of the vehicle.

Airbags supplement the protection provided by seat belts by distributing the force of the impact more evenly over the occupant's body.

But airbags would not help in many types of collisions, primarily because the occupant's motion is not toward those airbags. See *When Should an Airbag Inflate?* ⇨ 76.

Airbags should never be regarded as anything more than a supplement to seat belts.

What Will You See after an Airbag Inflates?

After the frontal and seat-mounted side impact airbags inflate, they quickly deflate, so quickly that some people may not even realize the airbags inflated. Some components of the airbag module may be hot for several minutes. For location of the airbags, see *Where Are the Airbags?* ⇨ 75.

The parts of the airbag that come into contact with you may be warm, but not too hot to touch. There may be some smoke and dust coming from the vents in the deflated airbags. Airbag inflation does not prevent the driver from seeing out of the windshield or being able to steer the vehicle, nor does it prevent people from leaving the vehicle.

 Warning

When an airbag inflates, there may be dust in the air. This dust could cause breathing problems for people with a history of asthma or other breathing trouble. To avoid this, everyone in the vehicle should get out as soon as it is safe to do so. If you have breathing problems but cannot get out of the vehicle after an airbag inflates, then get fresh air by opening a window or a door. If you experience breathing problems following an airbag deployment, you should seek medical attention.

The vehicle has a feature that may automatically unlock the doors, turn on the interior lamps and hazard warning flashers, and shut off the fuel system after the airbags inflate. The feature may also activate, without airbag inflation, after an event that exceeds a predetermined threshold. After turning the ignition

off and then on again, the fuel system will return to normal operation; the doors can be locked, the interior lamps can be turned off, and the hazard warning flashers can be turned off using the controls for those features. If any of these systems are damaged in the crash they may not operate as normal.

 Warning

A crash severe enough to inflate the airbags may have also damaged important functions in the vehicle, such as the fuel system, brake and steering systems, etc. Even if the vehicle appears to be drivable after a moderate crash, there may be concealed damage that could make it difficult to safely operate the vehicle.

Use caution if you should attempt to restart the engine after a crash has occurred.

In many crashes severe enough to inflate the airbag, windshields are broken by vehicle deformation. Additional windshield breakage may also occur from the front outboard passenger airbag.

- Airbags are designed to inflate only once. After an airbag inflates, you will need some new parts for the airbag system. If you do not get them, the airbag system will not be there to help protect you in another crash. A new system will include airbag modules and possibly other parts. The service manual for the vehicle covers the need to replace other parts.
- The vehicle has a crash sensing and diagnostic module which records information after a crash. See *Vehicle Data Recording and Privacy* ⇨ 342 and *Event Data Recorders* ⇨ 342.

- Let only qualified technicians work on the airbag system. Improper service can mean that the airbag system will not work properly. See your dealer for service.

Passenger Sensing System

The vehicle has a passenger sensing system for the front outboard passenger position. The passenger airbag status indicator will light on the instrument panel when the vehicle is started.



United States



Canada and Mexico

The words ON and OFF, or the symbols for on and off, will be visible during the system check. When the system check is complete, either the word ON or OFF, or the symbol for on or off, will be visible. See *Passenger Airbag Status Indicator* ⇨ 112.

The passenger sensing system turns off the front outboard passenger frontal airbag under certain conditions. No other airbag is affected by the passenger sensing system.

The passenger sensing system works with sensors that are part of the front outboard passenger seat and seat belt. The sensors are designed to detect the presence of

a properly-seated occupant and determine if the front outboard passenger frontal airbag should be allowed to inflate or not.

According to accident statistics, children are safer when properly secured in a rear seat in the correct child restraint for their weight and size.

Rear-facing child restraints should not be transported in the vehicle, even if the airbag is off.

Never put a rear-facing child seat in the front. This is because the risk to the rear-facing child is so great, if the airbag inflates.

Warning

A child in a rear-facing child restraint can be seriously injured or killed if the passenger frontal airbag inflates. This is because the back of the rear-facing child restraint would be very close to the inflating airbag. A child in a forward-facing child restraint can

(Continued)

Warning (Continued)

be seriously injured or killed if the passenger frontal airbag inflates and the passenger seat is in a forward position.

Even if the passenger sensing system has turned off the passenger frontal airbag, no system is fail-safe. No one can guarantee that an airbag will not inflate under some unusual circumstance, even though the airbag is off.

Never put a rear-facing child restraint in the front seat, even if the airbag is off. If securing a forward-facing child restraint in the front outboard passenger seat, always move the seat as far back as it will go. It is better to secure child restraints in the rear seat. Consider using another vehicle to transport the child when a rear seat is not available.

The passenger sensing system is designed to turn off the front outboard passenger frontal airbag if:

- The front outboard passenger seat is unoccupied.
- The system determines an infant is present in a child restraint.
- A front outboard passenger takes his/her weight off of the seat for a period of time.
- There is a critical problem with the airbag system or the passenger sensing system.

When the passenger sensing system has turned off the front outboard passenger frontal airbag, the OFF indicator will light and stay lit as a reminder that the airbag is off. See *Passenger Airbag Status Indicator* ⇨ 112.

The passenger sensing system is designed to turn on the front outboard passenger frontal airbag anytime the system senses that a person of adult size is sitting properly in the front outboard passenger seat.

When the passenger sensing system has allowed the airbag to be enabled, the ON indicator will light and stay lit as a reminder that the airbag is active.

For some children, including children in child restraints, and for very small adults, the passenger sensing system may or may not turn off the front outboard passenger frontal airbag, depending upon the person's seating posture and body build. Everyone in the vehicle who has outgrown child restraints should wear a seat belt properly — whether or not there is an airbag for that person.

**Warning**

If the airbag readiness light ever comes on and stays on, it means that something may be wrong with the airbag system. To help avoid injury to yourself or others, have the vehicle serviced right away. See *Airbag Readiness*

(Continued)

Warning (Continued)

Light ⇨ 112 for more information, including important safety information.

If the On Indicator Is Lit for a Child Restraint

The passenger sensing system is designed to turn off the front outboard passenger frontal airbag if the system determines that an infant is present in a child restraint. If a child restraint has been installed and the ON indicator is lit:

1. Turn the vehicle off.
2. Remove the child restraint from the vehicle.
3. Remove any additional items from the seat such as blankets, cushions, seat covers, seat heaters, or seat massagers.

4. Reinstall the child restraint following the directions provided by the child restraint manufacturer and refer to *Securing Child Restraints* ⇨ 91.

Make sure the seat belt retractor is locked by pulling the shoulder belt all the way out of the retractor when installing the child restraint, even if the child restraint is equipped with a seat belt lock-off. When the retractor lock is set, the belt can be tightened but not pulled out of the retractor.

5. If, after reinstalling the child restraint and restarting the vehicle, the ON indicator is still lit, turn the vehicle off. Then slightly recline the vehicle seatback and adjust the seat cushion, if adjustable, to make sure that the vehicle seatback is not pushing the child restraint into the seat cushion.
6. Restart the vehicle.

The passenger sensing system may or may not turn off the airbag for a child in a child restraint depending upon the child's size. It is better to secure child restraints in the rear seat. Consider using another vehicle to transport the child when a rear seat is not available. Never put a rear-facing child restraint in the front seat, even if the ON indicator is not lit.

If the Off Indicator Is Lit for an Adult-Sized Occupant



If a person of adult size is sitting in the front outboard passenger seat, but the OFF indicator is lit, it could

82 Seats and Restraints

be because that person is not sitting properly in the seat or that the child restraint locking feature is engaged. Use the following steps to allow the system to detect that person and enable the front outboard passenger frontal airbag:

1. Turn the vehicle off.
2. Remove any additional material from the seat, such as blankets, cushions, seat covers, seat heaters, or seat massagers.
3. Place the seatback in the fully upright position.
4. Have the person sit upright in the seat, centered on the seat cushion, with legs comfortably extended.
5. If the shoulder portion of the belt is pulled out all the way, the child restraint locking feature will be engaged. This may unintentionally cause the passenger sensing system to turn the airbag off for some adult-sized occupants. If this happens, unbuckle the belt, let

the belt go back all the way, and then buckle the belt again without pulling the belt out all the way.

6. Restart the vehicle and have the person remain in this position for two to three minutes after the ON indicator is lit.



Warning

If the front outboard passenger airbag is turned off for an adult-sized occupant, the airbag will not be able to inflate and help protect that person in a crash, resulting in an increased risk of serious injury or even death. An adult-sized occupant should not ride in the front outboard passenger seat, if the passenger airbag OFF indicator is lit.

Additional Factors Affecting System Operation

Seat belts help keep the passenger in position on the seat during vehicle maneuvers and braking,

which helps the passenger sensing system maintain the passenger airbag status. See “Seat Belts” and “Child Restraints” in the Index for additional information about the importance of proper restraint use.

A thick layer of additional material, such as a blanket or cushion, or aftermarket equipment such as seat covers, seat heaters, and seat massagers can affect how well the passenger sensing system operates. We recommend that you not use seat covers or other aftermarket equipment except when approved by GM for your specific vehicle. See *Adding Equipment to the Airbag-Equipped Vehicle* ⇨ 83 for more information about modifications that can affect how the system operates.

The ON indicator may be lit if an object, such as a briefcase, handbag, grocery bag, laptop, or other electronic device, is put on an unoccupied seat. If this is not desired, remove the object from the seat.

 Warning

Stowing articles under the passenger seat or between the passenger seat cushion and seatback may interfere with the proper operation of the passenger sensing system.

Servicing the Airbag-Equipped Vehicle

Airbags affect how the vehicle should be serviced. There are parts of the airbag system in several places around the vehicle. Your dealer and the service manual have information about servicing the vehicle and the airbag system. To purchase a service manual, see *Publication Ordering Information* ⇨ 339.

 Warning

For up to 10 seconds after the vehicle is turned off and the battery is disconnected, an airbag can still inflate during improper service. You can be injured if you are close to an airbag when it inflates. Avoid yellow connectors. They are probably part of the airbag system. Be sure to follow proper service procedures, and make sure the person performing work for you is qualified to do so.

Adding Equipment to the Airbag-Equipped Vehicle

Adding accessories that change the vehicle's frame, bumper system, height, front end, or side sheet metal may keep the airbag system from working properly.

The operation of the airbag system can also be affected by changing, including improperly repairing or replacing, any parts of the following:

- Airbag system, including airbag modules, front or side impact sensors, sensing and diagnostic module, or airbag wiring
- Front seats, including stitching, seams or zippers
- Seat belts
- Steering wheel, instrument panel, ceiling trim, or pillar garnish trim
- Inner door seals, including speakers

Your dealer and the service manual have information about the location of the airbag modules and sensors, sensing and diagnostic module, and airbag wiring along with the proper replacement procedures.

In addition, the vehicle has a passenger sensing system for the front outboard passenger position, which includes sensors that are part of the passenger seat. The

passenger sensing system may not operate properly if the original seat trim is replaced with non-GM covers, upholstery or trim, or with GM covers, upholstery or trim designed for a different vehicle. Any object, such as an aftermarket seat heater or a comfort-enhancing pad or device, installed under or on top of the seat fabric, could also interfere with the operation of the passenger sensing system. This could either prevent proper deployment of the passenger airbag(s) or prevent the passenger sensing system from properly turning off the passenger airbag(s). See *Passenger Sensing System* ⇨ 79.

If the vehicle must be modified because you have a disability and have questions about whether the modifications will affect the vehicle's airbag system, or if you have questions about whether the airbag system will be affected if the vehicle is modified for any other reason, call Customer Assistance. See *Customer Assistance Offices* ⇨ 332.

Airbag System Check

The airbag system does not need regularly scheduled maintenance or replacement. Make sure the airbag readiness light is working. See *Airbag Readiness Light* ⇨ 112.

Caution

If an airbag covering is damaged, opened, or broken, the airbag may not work properly. Do not open or break the airbag coverings. If there are any opened or broken airbag coverings, have the airbag covering and/or airbag module replaced. For the location of the airbags, see *Where Are the Airbags?* ⇨ 75. See your dealer for service.

Replacing Airbag System Parts after a Crash



A crash can damage the airbag systems in the vehicle. A damaged airbag system may not properly protect you and your passenger(s) in a crash, resulting in serious injury or even death. To help make sure the airbag systems are working properly after a crash, have them inspected and any necessary replacements made as soon as possible.

If an airbag inflates, you will need to replace airbag system parts. See your dealer for service.

If the airbag readiness light stays on after the vehicle is started or comes on when you are driving, the airbag system may not work properly. Have the vehicle serviced right away. See *Airbag Readiness Light* ⇨ 112.

Child Restraints

Older Children



Older children who have outgrown booster seats should wear the vehicle's seat belts.

The manufacturer instructions that come with the booster seat state the weight and height limitations for that booster. Use a booster seat with a lap-shoulder belt until the child passes the fit test below:

- Sit all the way back on the seat. Do the knees bend at the seat edge? If yes, continue. If no, return to the booster seat.
- Buckle the lap-shoulder belt. Does the shoulder belt rest on the shoulder? If yes, continue. If no, return to the booster seat.
- Does the lap belt fit low and snug on the hips, touching the thighs? If yes, continue. If no, return to the booster seat.
- Can proper seat belt fit be maintained for the length of the trip? If yes, continue. If no, return to the booster seat.

Q: What is the proper way to wear seat belts?

- A:** An older child should wear a lap-shoulder belt and get the additional restraint a shoulder belt can provide. The shoulder belt should not cross the face or neck. The lap belt should fit snugly below the hips, just touching the top of the thighs. This applies belt force to the child's pelvic bones in a crash. It should never be worn over the abdomen, which could cause severe or even fatal internal injuries in a crash.

According to accident statistics, children are safer when properly restrained in a rear seating position.

In a crash, children who are not buckled up can strike other people who are buckled up, or can be thrown out of the vehicle. Older children need to use seat belts properly.

Warning

Never allow more than one child to wear the same seat belt. The seat belt cannot properly spread the impact forces. In a crash, they can be crushed together and seriously injured. A seat belt must be used by only one person at a time.

**Warning**

Never allow a child to wear the seat belt with the shoulder belt behind their back. A child can be seriously injured by not wearing the lap-shoulder belt properly. In a crash, the child would not be restrained by the shoulder belt. The child could move too far forward increasing the chance of head and neck injury. The child might also slide under the lap belt. The belt force would then be applied right on the abdomen. That could cause serious or fatal injuries. The shoulder belt should go over the shoulder and across the chest.

**Infants and Young Children**

Everyone in a vehicle needs protection! This includes infants and all other children. Neither the distance traveled nor the age and size of the traveler changes the need, for everyone, to use safety restraints. In fact, the law in every state in the United States and in every Canadian province says children up to some age must be restrained while in a vehicle.

⚠ Warning

Children can be seriously injured or strangled if a shoulder belt is wrapped around their neck. The shoulder belt can tighten but cannot be loosened if it is locked. The shoulder belt locks when it is pulled all the way out of the retractor. It unlocks when the shoulder belt is allowed to go all the way back into the retractor, but it cannot do this if it is wrapped around a child's neck. If the shoulder belt is locked and tightened around a child's neck, the only way to loosen the belt is to cut it.

Never leave children unattended in a vehicle and never allow children to play with the seat belts.

Every time infants and young children ride in vehicles, they should have the protection provided by

appropriate child restraints. Neither the vehicle's seat belt system nor its airbag system is designed for them.

Children who are not restrained properly can strike other people, or can be thrown out of the vehicle.

⚠ Warning

Never hold an infant or a child while riding in a vehicle. Due to crash forces, an infant or a child will become so heavy it is not possible to hold it during a crash. For example, in a crash at only 40 km/h (25 mph), a 5.5 kg (12 lb) infant will suddenly become a 110 kg (240 lb) force on a person's arms. An infant or child should be secured in an appropriate restraint.



⚠ Warning

Children who are up against, or very close to, any airbag when it inflates can be seriously injured or killed. Never put a rear-facing child restraint in the front outboard seat. Secure a rear-facing child restraint in a rear seat. It is also better to secure a forward-facing child restraint in a rear seat. If you must secure a forward-facing child restraint in the front outboard seat, always move the front passenger seat as far back as it will go.



Child restraints are devices used to restrain, seat, or position children in the vehicle and are sometimes called child seats or car seats.

There are three basic types of child restraints:

- Forward-facing child restraints
- Rear-facing child restraints
- Belt-positioning booster seats

The proper child restraint for your child depends on their size, weight, and age, and also on whether the child restraint is compatible with the vehicle in which it will be used.

For each type of child restraint, there are many different models available. When purchasing a child restraint, be sure it is designed to be used in a motor vehicle. If it is, the restraint will have a label saying that it meets federal motor vehicle safety standards. The restraint manufacturer's instructions that come with the restraint state the weight and height limitations for a particular child restraint. In addition, there are many kinds of restraints available for children with special needs.

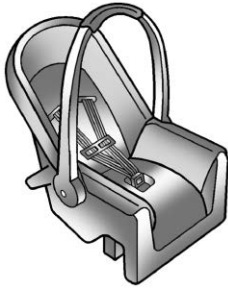
Warning

To reduce the risk of neck and head injury in a crash, infants and toddlers should be secured in a rear-facing child restraint until age two, or until they reach the maximum height and weight limits of their child restraint.

Warning

A young child's hip bones are still so small that the vehicle's regular seat belt may not remain low on the hip bones, as it should. Instead, it may settle up around the child's abdomen. In a crash, the belt would apply force on a body area that is unprotected by any bony structure. This alone could cause serious or fatal injuries. To reduce the risk of serious or fatal injuries during a crash, young children should always be secured in appropriate child restraints.

Child Restraint Systems



Rear-Facing Infant Restraint

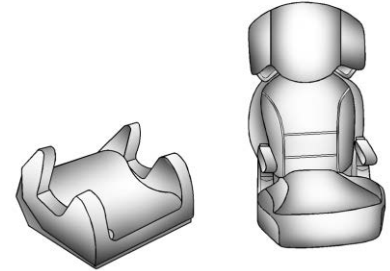
A rear-facing child restraint provides restraint with the seating surface against the back of the infant.

The harness system holds the infant in place and, in a crash, acts to keep the infant positioned in the restraint.



Forward-Facing Child Restraint

A forward-facing child restraint provides restraint for the child's body with the harness.



Booster Seats

A belt-positioning booster seat is used for children who have outgrown their forward-facing child restraint. Boosters are designed to improve the fit of the vehicle's seat belt system until the child is large enough for the vehicle seat belts to fit properly without a booster seat. See the seat belt fit test in *Older Children* ⇨ 85.

Securing an Add-On Child Restraint in the Vehicle

Warning

A child can be seriously injured or killed in a crash if the child restraint is not properly secured in the vehicle. Secure the child restraint properly in the vehicle using the vehicle's seat belt, following the instructions that came with that child restraint and the instructions in this manual.

To help reduce the chance of injury, the child restraint must be secured in the vehicle. Child restraints must be secured in vehicle seats by lap belts or the lap belt portion of a lap-shoulder belt. A child can be endangered in a crash if the child restraint is not properly secured in the vehicle.

When securing an add-on child restraint, refer to the instructions that come with the restraint which may be on the restraint itself or in a

booklet, or both, and to this manual. The child restraint instructions are important, so if they are not available, obtain a replacement copy from the manufacturer.

Keep in mind that an unsecured child restraint can move around in a collision or sudden stop and injure people in the vehicle. Be sure to properly secure any child restraint in the vehicle — even when no child is in it.

In some areas of the United States and Canada, Certified Child Passenger Safety Technicians (CPSTs) are available to inspect and demonstrate how to correctly use and install child restraints. In the U.S., refer to the National Highway Traffic Safety Administration (NHTSA) website to locate the nearest child safety seat inspection station. For CPST availability in Canada, check with Transport Canada or the Provincial Ministry of Transportation office.

Securing the Child Within the Child Restraint

Warning

A child can be seriously injured or killed in a crash if the child is not properly secured in the child restraint. Secure the child properly following the instructions that came with that child restraint.

Lower Anchors and Tethers for Children (LATCH System)

Some child restraints have a LATCH system. As part of the LATCH system, your child restraint may have lower attachments and/or a top tether. The LATCH system can help hold the child restraint in place during driving or in a crash. Some vehicles have lower and/or top tether anchors designed to secure a child restraint with lower attachments and/or a top tether.

Some child restraints with a top tether are designed to be used whether the top tether is anchored or not. Other child restraints require that the top tether be anchored. A national or local law may require that the top tether be anchored.

In Canada, the law requires that forward-facing child restraints have a top tether, and that the tether be attached.

Your vehicle does not have lower anchors or top tether anchors to secure a child restraint with the LATCH system. If a national or local law requires that your top tether be anchored, do not use a child restraint in this vehicle because a top tether cannot be properly anchored. You must use the seat belts to secure your child restraint in this vehicle, unless a national or local law requires that the top tether be anchored. Refer to the child restraint instructions and instructions in this manual for securing a child restraint using the vehicle's seat belts. See *Securing Child Restraints* ⇨ 91.

Securing Child Restraints

This vehicle has airbags. In addition, the vehicle has a passenger sensing system which is designed to turn off the front outboard passenger frontal airbag under certain conditions. See *Passenger Sensing System* ⇨ 79 and *Passenger Airbag Status Indicator* ⇨ 112 for more information, including important safety information.

Never put a rear-facing child seat in the front. This is because the risk to the rear-facing child is so great if the airbag deploys.

Warning

A child in a rear-facing child restraint can be seriously injured or killed if the front outboard passenger frontal airbag inflates. This is because the back of the rear-facing child restraint would be very close to the inflating airbag. A child in a forward-facing
(Continued)

Warning (Continued)

child restraint can be seriously injured or killed if the front outboard passenger frontal airbag inflates and the passenger seat is in a forward position.

Even if the passenger sensing system has turned off the front outboard passenger frontal airbag, no system is fail-safe. No one can guarantee that an airbag will not deploy under some unusual circumstance, even though it is turned off.

Secure rear-facing child restraints in a rear seat, even if the airbag is off. If you secure a forward-facing child restraint in the front outboard passenger seat, always move the seat as far back as it will go. It is better to secure the child restraint in a rear seat.

See *Passenger Sensing System* ⇨ 79 for additional information.

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Rear-facing child restraints should not be installed in the vehicle, even if the airbag is off.

Do not secure a child seat in a position without a top tether anchor if a national or local law requires that the top tether be anchored, or if the instructions that come with the child restraint say that the top tether must be anchored.

In Canada, the law requires that forward-facing child restraints have a top tether, and that the tether be attached.

When using the lap-shoulder belt to secure the child restraint in this position, follow the instructions that came with the child restraint and the following instructions:

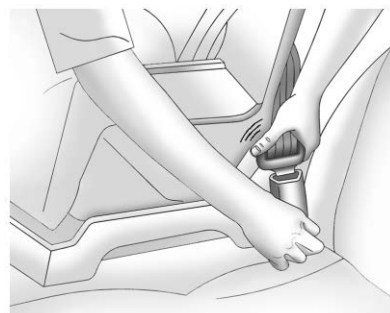
1. Move the seat as far back as it will go before securing the forward-facing child restraint. Move the seat upward or the seatback to an upright position, if needed, to get a tight installation of the child restraint.

When the passenger sensing system has turned off the front outboard passenger frontal airbag, the OFF indicator on the passenger airbag status indicator should light and stay lit when you start the vehicle. See *Passenger Airbag Status Indicator* ⇨ 112.

2. Put the child restraint on the seat.

Remove the seat belt from the guide by sliding the webbing through the opening on the guide. Do not secure the child restraint with the seat belt routed through the guide.

3. Pick up the latch plate, and run the lap and shoulder portions of the vehicle's seat belt through or around the restraint. The child restraint instructions will show you how.

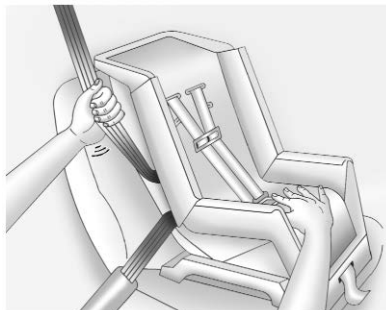


4. Push the latch plate into the buckle until it clicks.

Position the release button on the buckle, away from the child restraint, so that the seat belt could be quickly unbuckled if necessary.



5. Pull the shoulder belt all the way out of the retractor to set the lock. When the retractor lock is set, the belt can be tightened but not pulled out of the retractor.



6. To tighten the belt, push down on the child restraint, pull the shoulder portion of the belt to tighten the lap portion of the belt, and feed the shoulder belt back into the retractor. When installing a forward-facing child restraint, it may be helpful to use your knee to push down on the child restraint as you tighten the belt.

Try to pull the belt out of the retractor to make sure the retractor is locked. If the retractor is not locked, repeat Steps 5 and 6.

7. Before placing a child in the child restraint, make sure it is securely held in place. To check, grasp the child restraint at the seat belt path and attempt to move it side to side and back and forth. When the child restraint is properly installed, there should be no more than 2.5 cm (1 in) of movement.

If the airbag is off, the OFF indicator in the passenger airbag status indicator will come on and stay on when the vehicle is started.

If a child restraint has been installed and the ON indicator is lit, see "If the On Indicator Is Lit for a Child Restraint" under *Passenger Sensing System* ⇨ 79.

To remove the child restraint, unbuckle the vehicle seat belt and let it return to the stowed position.

If the top tether is attached to a top tether anchor, disconnect it.

Return the seat belt into the guide by sliding the webbing through the opening on the guide.

Storage

Storage Compartments

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Instrument Panel Storage	94
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Cupholders	95
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Additional Storage Features

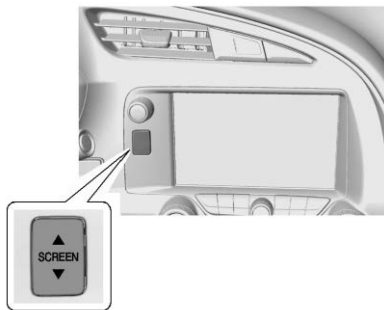
Cargo Cover	96
Cargo Tie-Downs	97
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Storage Compartments

Warning

Do not store heavy or sharp objects in storage compartments. In a crash, these objects may cause the cover to open and could result in injury.

Instrument Panel Storage



Press ▲ SCREEN and hold to open and access the storage behind it.

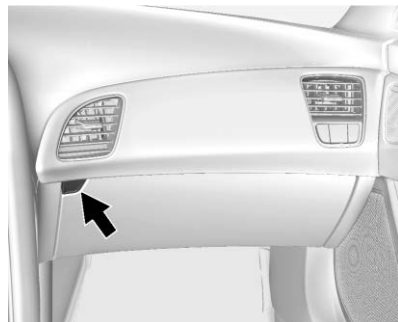
There is a USB port in the upper left corner. See “Audio Players” in the infotainment manual.

Press and hold SCREEN ▼ to close.

The storage area cannot be operated when Valet Mode, if equipped, is enabled. See *Vehicle Personalization* ⇨ 128.

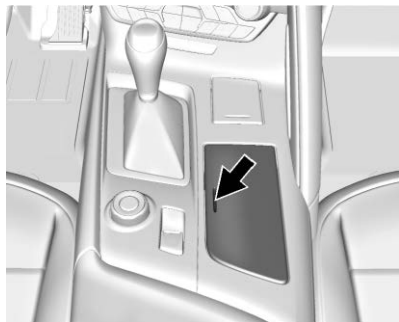
Keep the storage area closed when not in use.

Glove Box



To open, press the button.
If equipped, the glove box locks when Valet Mode is enabled. See *Vehicle Personalization* ⇨ 128.

Cupholders

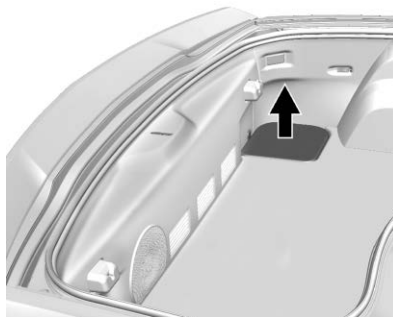


Press the top of the cover to access the cupholders. There is a removable divider.

Rear Storage

Caution

Do not store heavy or sharp objects in the rear storage compartments located in the hatch/trunk area. The objects could damage the underside of the hatch/trunk.

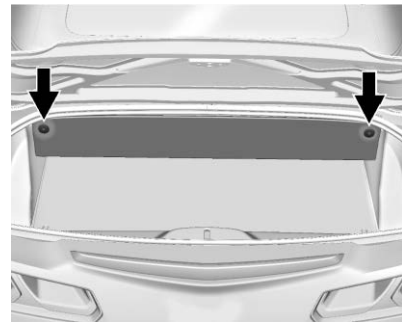


Coupe Shown, Convertible Similar

There is storage on the driver side in the floor of the hatch/trunk area. Pull up to open the cover.

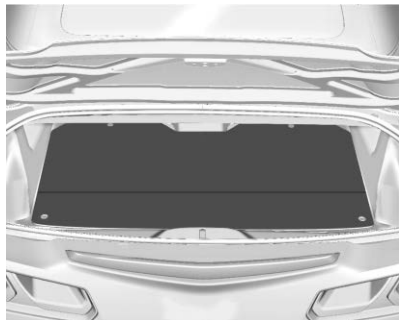
Rear Trunk Partition

If equipped with a convertible top, there is a trunk partition to keep cargo from getting in the way of the convertible top. The trunk partition must be in place for the convertible top to move. If the trunk partition is not properly in place, a message will display and a noise will be heard.



Pull the divider up and snap it into place on both sides of the trunk.

The trunk partition is a flat carpeted board with a horizontal flap that can be attached to the top of the trunk to provide additional storage space.

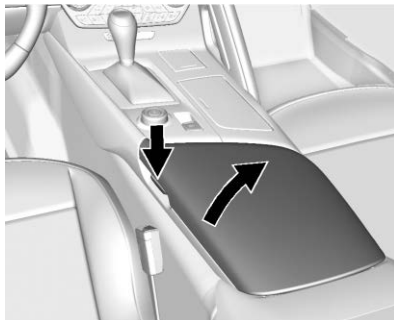


With the convertible top up, the trunk partition can be unsnapped and laid flat to increase trunk cargo space.

Center Console Storage

Caution

The area inside the console can get hot. Do not store items that can be damaged by heat.



To open, press the button on the driver side.

Depending on the options, there may be two USB ports and an accessory outlet inside. See *Power Outlets* ⇨ 101 and “Audio Players” in the infotainment manual.

Additional Storage Features

Cargo Cover

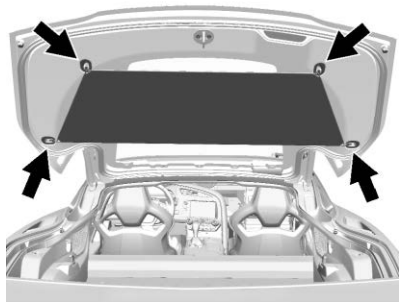
If equipped, the cargo cover provides hidden storage in the rear area of the vehicle. The cover also blocks glare from the removable roof panel when it is stored in the rear compartment.

The cargo cover has two pieces: a flat and an L-shaped piece.

Warning

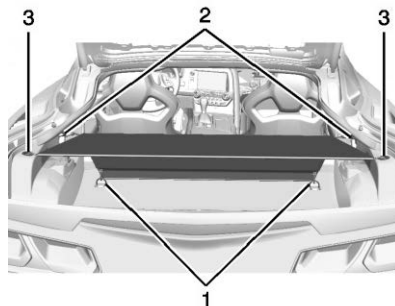
Do not place objects on the cargo cover. Sudden stops or turns can cause objects to be thrown in the vehicle. You or others could be injured.

Attaching the Flat Cargo Cover



Attach the elastic loops on the four corners of the cargo cover to the hooks on the front and rear corners of the hatch.

Attaching the L-Shaped Cargo Cover



1. Attach the plastic hooks on the cover to the tie-downs on the floor (1) and to the side panels (2).
2. Attach the elastic loops on the cover to the hooks on the side panels (3).

Do not use the cargo cover hooks and tie-downs to secure anything but the cargo cover. They are not designed for heavy loads.

Cargo Tie-Downs

The cargo tie-downs can be used to secure small loads under the cargo net inside the trunk.

Convenience Net



The vehicle may have a convenience net to be used for small loads. Attach the net to the hooks on the rear of the storage area. The net should not be used to store heavy loads.

Instruments and Controls

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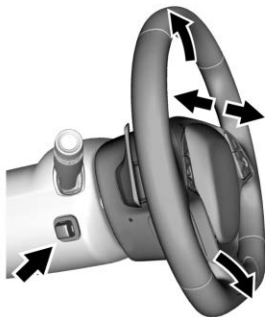
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Controls

Steering Wheel Adjustment



Press the control to move the tilt and telescoping steering wheel up and down or forward and rearward.

Both the tilt and telescoping steering column positions can be stored with your memory settings, if equipped. See *Memory Seats* ⇨ 60.

Do not adjust the steering wheel while driving.

Steering Wheel Controls

The infotainment system can be operated by using the steering wheel controls. See “Steering Wheel Controls” in the infotainment manual.

Horn

Press near or on the horn symbols on the steering wheel pad to sound the horn.

Windshield Wiper/Washer

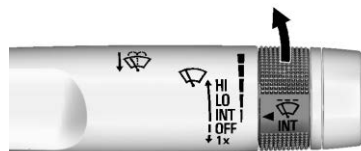


The windshield wiper/washer lever is on the right side of the steering column.

With the ignition on or in ACC/ACCESSORY, move the windshield wiper lever to select the wiper speed.

HI : Use for fast wipes.

LO : Use for slow wipes.



INT : Move the lever up to INT for intermittent wipes, then turn the INT band up for more frequent wipes or down for less frequent wipes.

OFF : Use to turn the wipers off.

1X : For a single wipe, briefly move the wiper lever down. For several wipes, hold the wiper lever down.

Warning

In freezing weather, do not use the washer until the windshield is warmed. Otherwise the washer fluid can form ice on the windshield, blocking your vision.

↓  : Pull the windshield wiper lever toward you to spray washer fluid and activate the wipers. The wipers will continue until the lever is released or the maximum wash time is reached. When the lever is released, additional wipes may occur depending on how long the windshield washer had been activated. See *Washer Fluid* ⇨ 248 for information on filling the windshield washer fluid reservoir.

Clear snow and ice from the wiper blades and windshield before using them. If frozen to the windshield, carefully loosen or thaw them. Damaged blades should be replaced. See *Wiper Blade Replacement* ⇨ 254.

Heavy snow or ice can overload the wiper motor.

Wiper Parking

If the ignition is turned off while the wipers are on LO, HI, or INT, they will immediately stop.

If the windshield wiper lever is then moved to OFF before the driver door is opened or within 10 minutes, the wipers will restart and move to the base of the windshield.

If the ignition is turned off while the wipers are performing wipes due to windshield washing, the wipers continue to run until they reach the base of the windshield.

Compass

The vehicle may have a compass display on the center stack. The compass receives its heading and other information from the Global Positioning System (GPS) antenna, Electronic Stability Control, and vehicle speed information.

The compass system is designed to operate for a certain number of miles or degrees of turn before needing a signal from the GPS satellites. When the compass display shows CAL, drive the vehicle for a short distance in an open area where it can receive a GPS signal. The compass system

will automatically determine when a GPS signal is restored and provide a heading again.

Clock

The infotainment system controls are used to access the time and date settings through the menu system. See “Home Page” in the infotainment manual for information about how to use the menu system.

Setting the Clock

Time

To set the time:

1. From the Home Page, touch **SETTINGS**, then touch **Time** and **Date**.
2. Touch **Set Time**, then touch  or  to increase or decrease hours or minutes, and change **AM** or **PM**.
3. Touch **12-24 Hr** for a 12 or 24 hour clock.
4. Touch  to go back to the previous menu.

Date

To set the date:

1. Touch SETTINGS, then touch Time and Date.
2. Touch Set Date, then touch  or  to increase or decrease month, day, or year.
3. Touch  to go back to the previous menu.

Auto Set

When on, the time and date will automatically update.

Auto set requires an active OnStar or connected service plan.

To set auto set:

1. Touch SETTINGS, then touch Time and Date.
2. Touch Set Time or Set Date.
3. Touch Auto Set, then select On-Cell Network or Off-Manual to manually set the time and date.
4. Touch  to go back to the previous menu.

If auto set is on, the time displayed on the clock may not update immediately when driving into a new time zone.

Clock Display

When on, the digital clock will show on the infotainment display.

To set the clock display:

1. Touch SETTINGS, then touch Time and Date.
2. Touch Clock Display, then select Off or On.
3. Touch  to go back to the previous menu.

Power Outlets

Use the accessory power outlet to plug in electrical equipment, such as a cell phone or MP3 player.

There are three accessory power outlets:

- In front of the cupholder. Open the door compartment to access.
- Inside the center console storage compartment.

- In the rear compartment.

Lift the cover to access and replace when not in use.

The power outlets in front of the cupholder and inside the center console storage compartment are powered when the ignition is on or in ACC/ACCESSORY, or until the driver door is opened within 10 minutes of turning off the vehicle. See *Retained Accessory Power (RAP)*  183.

The rear compartment power outlet is powered at all times. The vehicle's battery may run down if the power outlet is used while the ignition is off. Use this power outlet for plugging in the battery maintainer, if equipped.

 Warning

Power is always supplied to the trunk outlet. Do not leave electrical equipment plugged in when the vehicle is not in use because the vehicle could catch fire and cause injury or death.

Caution

Leaving electrical equipment plugged in for an extended period of time while the vehicle is off will drain the battery. Always unplug electrical equipment when not in use and do not plug in equipment that exceeds the maximum 20 amp rating.

Certain electrical accessories may not be compatible with the accessory power outlet and could overload vehicle or adapter fuses. If a problem is experienced, see your dealer.

When adding electrical equipment, be sure to follow the proper installation instructions included with the equipment. See *Add-On Electrical Equipment* ⇨ 216.

It is recommended that a qualified technician or dealer be seen for the proper installation of your equipment.

Caution

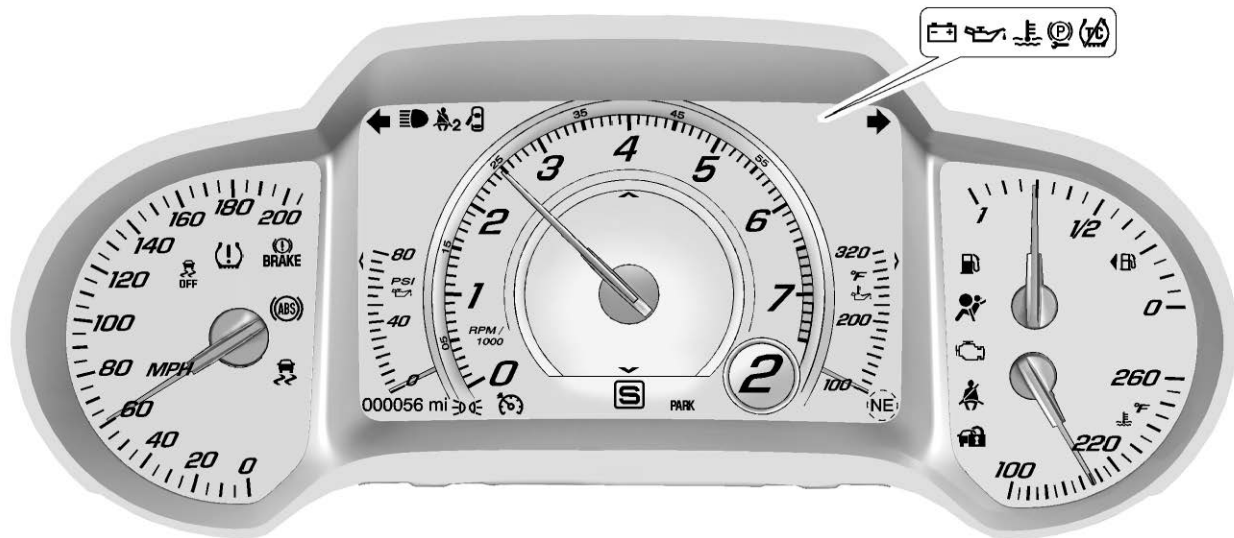
Hanging heavy equipment from the power outlet can cause damage not covered by the vehicle warranty. The power outlets are designed for accessory power plugs only, such as cell phone charge cords.

Warning Lights, Gauges, and Indicators

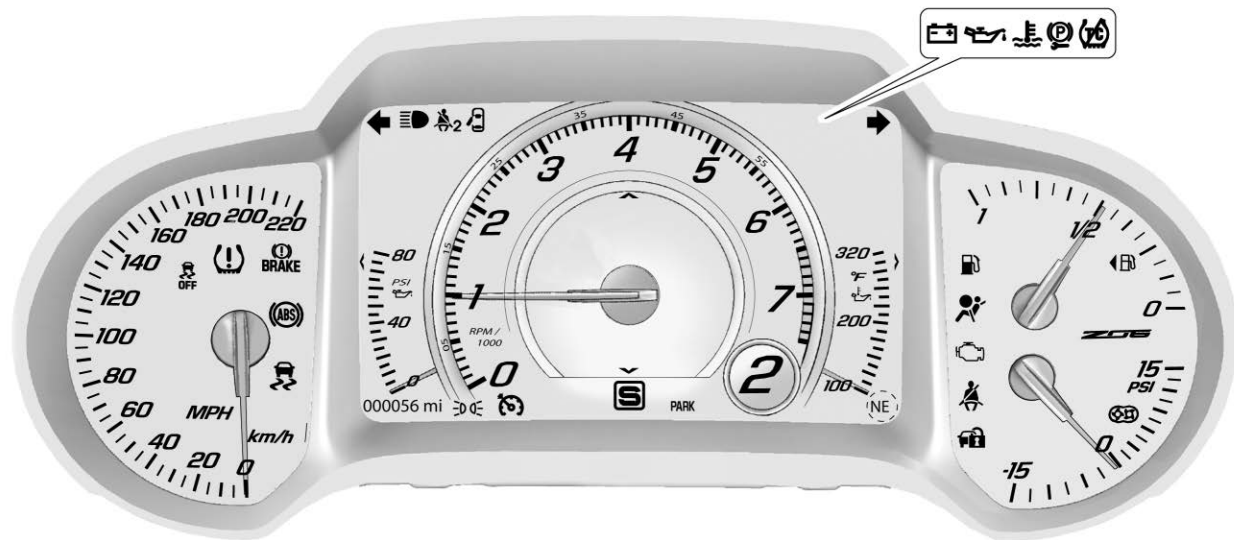
Warning lights and gauges can signal that something is wrong before it becomes serious enough to cause an expensive repair or replacement. Paying attention to the warning lights and gauges could prevent injury.

Some warning lights come on briefly when the engine is started to indicate they are working. When one of the warning lights comes on and stays on while driving, or when one of the gauges shows there may be a problem, check the section that explains what to do. Waiting to do repairs can be costly and even dangerous.

Instrument Cluster



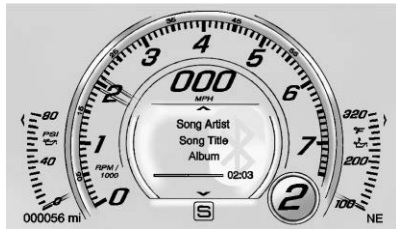
English Sport Theme Shown, Metric and Other Themes Similar



English Z06 Sport Theme Shown; Metric, ZR1, and Other Themes Similar.

Reconfigurable Instrument Cluster

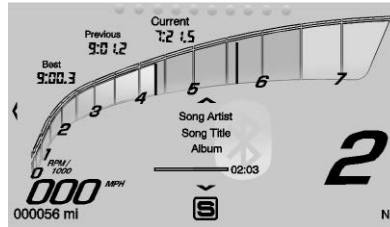
There are four instrument cluster display configurations to choose from: Link to Drive Mode, Sport, Track, and Tour. The style of the center of the instrument cluster will change depending on the theme selected. If Link to Drive Mode is chosen, the cluster configuration will change to match the setting on the driver mode control on the console. See *Driver Mode Control* ⇨ 200. If Weather or Eco are selected with the driver mode control, the cluster will display the Tour theme.



Sport

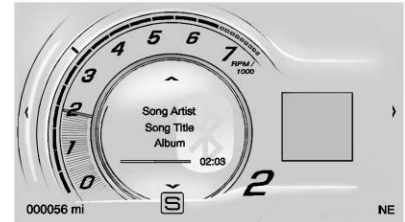
Sport includes a circular tachometer centered in the display. The DIC is contained within the tachometer

ring. Additionally, there are two configurable pocket gauges in the lower left and right corners.



Track

Track includes an asymmetric tachometer with prominent red-line markings and a lap timer that shows the current, previous, and best lap.



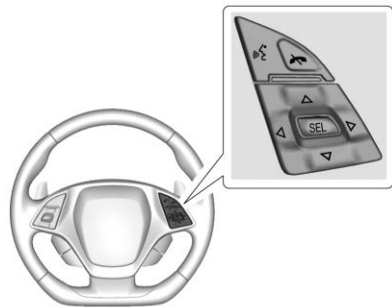
Tour

Tour includes a partial tachometer ring. The DIC is contained within the tachometer ring. There is also an area used to display icons or images for the DIC or phone contacts.

The instrument cluster display configuration is selected through the cluster menu. See "Settings" under "Cluster Menu" following.

Cluster Menu

There is an interactive display area in the center of the instrument cluster.



Use the right steering wheel control to open and scroll through the different items and displays.

Press to access the cluster applications. Use or to scroll through the list of applications.

- Info. This is where you can view the Driver Information Center (DIC) displays. See *Driver Information Center (DIC)* ➔ 121.
- Performance
- Audio
- Phone
- Navigation (If Equipped)

• Options

Performance

Press SEL to enter the Performance menu. Use or to scroll through the available items.

G-force : Gives the driver an indication of the vehicle performance in cornering. The G-force is displayed in the center of the DIC as a numerical value.

Friction Bubble : A four quadrant visual display, indicative of the four corners of the car, with a “bubble” showing where the most inertia is being exerted on the vehicle.

Performance Timer : Press when Performance Timer is displayed to enter the menu. Press while Set Start Speed is highlighted then use or to enter the start speed. Press SEL to save it. Press while Set End Speed is highlighted then use or to enter the end speed. Press SEL to save it. After the start and end speeds have been entered,

press to set the Sport display to the set speeds and the performance timer is ready to use. On the next acceleration, the performance time will record the time. To reset the timer, highlight Reset on the performance timer menu and press SEL.

Lap Timer (If equipped) : Press when Lap Timer is displayed to start, stop, or reset the lap timer. A stopwatch icon will be displayed when the lap timer is active. Press SEL while the Lap Timer page is active to start the timer. If the lap timer is active, pressing SEL on any page will stop the current lap timer and start a new lap. Also, pressing and holding SEL on any page will stop the lap timer.

Coolant Temperature (Z06 only) : Shows the current coolant temperature in either degrees Celsius (°C) or degrees Fahrenheit (°F).

Oil Temperature : Shows the current oil temperature in either degrees Celsius (°C) or degrees Fahrenheit (°F).

Oil Pressure : Shows the current oil pressure in either kilopascal (kPa) or in pounds per square inch (psi).

Battery Voltage : Shows the current battery voltage.

Transmission Fluid

Temperature : Shows the temperature of the transmission fluid in either degrees Celsius (°C) or degrees Fahrenheit (°F).

Tire Temperature : Shows tire temperature status as either Cold, Warm, or Hot. Warm is typical for normal driving while Hot is typical for aggressive driving. Unknown may be displayed if tire temperature information is unavailable.

eLSD and Wheel Slip : Displays when the Electronic Limited-Slip Differential (eLSD) is active and intervening with the vehicle's normal operation. The display also displays slip percentage in a range of low, medium, and high.

See *Limited-Slip Differential (Stingray without Z51 Only)* ⇨ 207 or *Limited-Slip Differential (ZR1, Z06, Grand Sport, and Stingray with Z51)* ⇨ 207.

Audio

While the audio app is open, use  or  to change the radio station or seek to the next or previous track, depending on the current audio source. Press SEL to enter the Audio menu. In the Audio menu browse for music, select from the favorites, or change the audio source.

Phone

Press SEL to enter the Phone menu. In the Phone menu, if there is no active phone call, view recent calls, or scroll through contacts. If there is an active call, mute or unmute the phone or switch to handset or hands-free operation.

Navigation

If equipped, press SEL to enter the Navigation menu. Displays a map or turn by turn directions. If there is no active route, press  to resume the last route and turn the voice prompts on/off. If there is an active route, press SEL to cancel route guidance or turn the voice prompts on/off.

Options

Press SEL to enter the Options menu. Use  or  to scroll through items in the Options menu.

Units : Press  while Units is displayed to enter the Units menu. Choose US or Metric units by pressing SEL while the desired item is highlighted.

Display Theme : Press  to enter the Display Theme menu. Select from Link to Drive Mode, Track, Sport, or Tour for the cluster theme.

Head-up Display (HUD) Rotation : This feature allows for adjusting the angle of the HUD image. Press 

on the steering wheel controls while Head-up Display Rotation is highlighted to enter Adjust Mode. Press $\triangle$ or ∇ to adjust the angle of the HUD display. Press SEL to confirm and save the setting. To cancel the setting, press $\triangleleft$. The vehicle must be in P (Park).

Speed Warning : The Speed Warning display allows the driver to set a speed that they do not want to exceed. To set the Speed Warning, press $\triangleright$ when Speed Warning is displayed. Enable the speed warning and then use $\triangle$ or ∇ to adjust the value. Press SEL to set the speed. Once the speed is set, this feature can be turned off by pressing SEL while viewing this page. If the selected speed limit is exceeded, a pop-up warning is displayed with a chime.

Pocket Gauges : Press $\triangleright$ while Pocket Gauges is displayed to enter the menu and select gauges that can be displayed for the Sport theme on the left or right of the display area. Choose from Oil

Pressure Gauge, Oil Temperature Gauge, Battery Voltage, Transmission Fluid Temperature Gauge, Horsepower, or a blank gauge.

Software Info : Press $\triangleright$ while Software Info is highlighted to display open source software information.

Speedometer

The speedometer shows the vehicle's speed in either kilometers per hour (km/h) or miles per hour (mph).

Odometer

The odometer shows how far the vehicle has been driven, in either kilometers or miles.

Trip Odometer

The trip odometer shows how far the vehicle has been driven since the trip odometer was last reset.

The trip odometer is accessed and reset through the Driver Information Center (DIC). See *Driver Information Center (DIC)* $\diamond$ 121.

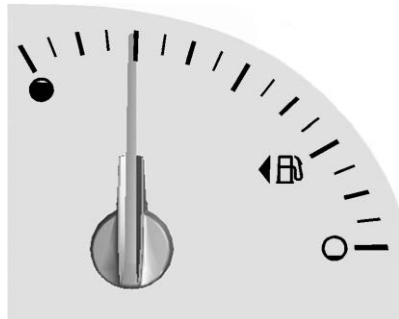
Tachometer

The tachometer displays the engine speed in revolutions per minute (rpm).

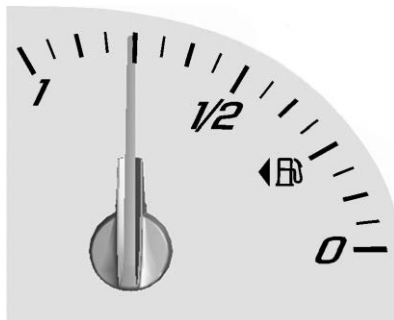
Caution

If the engine is operated with the rpm's in the warning area at the high end of the tachometer, the vehicle could be damaged, and the damage would not be covered by the vehicle warranty. Do not operate the engine with the rpm's in the warning area.

Fuel Gauge



Metric



English

When the ignition is on, the fuel gauge indicates about how much fuel is left in the tank.

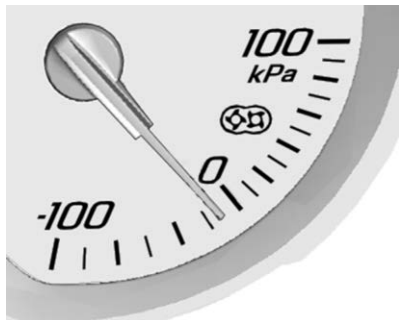
An arrow on the fuel gauge indicates the side of the vehicle the fuel door is on.

When the indicator nears empty, the low fuel light comes on. There is still a little fuel left, but the fuel tank should be filled soon.

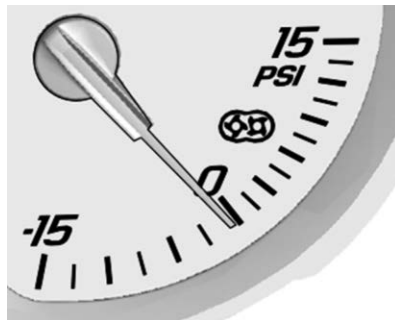
Here are four things that some owners ask about. None of these show a problem with the fuel gauge:

- At the service station, the fuel pump shuts off before the gauge reads full.
- It takes a little more or less fuel to fill up than the gauge indicated. For example, the gauge indicated the tank was half full, but it actually took a little more or less than half the tank's capacity to fill the tank.
- The gauge moves a little while turning a corner or speeding up.
- The gauge takes a few seconds to stabilize after the ignition is turned on, and goes back to empty when the ignition is turned off.

Boost Gauge (Z06 and ZR1)



Metric



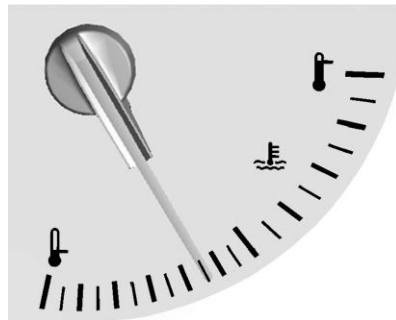
English

This gauge indicates vacuum during light to moderate throttle and boost under heavier throttle.

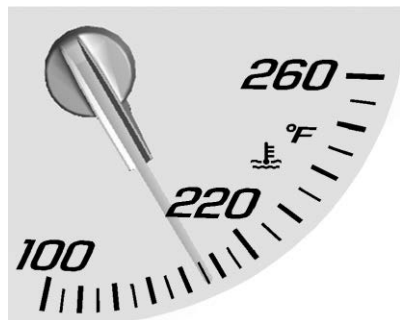
It displays the air pressure level in the intake manifold before it enters the engine's combustion chamber.

The gauge is automatically centered at zero every time the engine is started. Actual vacuum or boost is displayed from this zero point. Changes in ambient pressure, such as driving in mountains and changing weather, will slightly change the zero reading.

Engine Coolant Temperature Gauge



Metric



English

This gauge shows the engine coolant temperature.

If the gauge pointer moves to the high end, the engine is too hot.

This reading indicates the same thing as the warning light. It means that the engine coolant has overheated. If the vehicle has been operating under normal driving conditions, pull off the road, stop the vehicle, and turn off the engine as soon as possible. See *Engine Overheating* ⇨ 247 for more information.

Seat Belt Reminders

Driver Seat Belt Reminder Light

There is a driver seat belt reminder light on the instrument cluster.



When the vehicle is started, this light flashes and a chime may come on to remind the driver to fasten their seat belt. Then the light stays on solid until the belt is buckled. This cycle may continue several times if the driver remains or becomes unbuckled while the vehicle is moving.

If the driver seat belt is buckled, neither the light nor chime comes on.

Passenger Seat Belt Reminder Light

There is a passenger seat belt reminder light on the instrument cluster.



When the vehicle is started this light flashes and a chime may come on to remind passengers to fasten their seat belt. Then the light stays on solid until the belt is buckled. This cycle continues several times if the passenger remains or becomes unbuckled while the vehicle is moving.

If the passenger seat belt is buckled, neither the chime nor the light comes on.

The front passenger seat belt reminder light and chime may turn on if an object is put on the seat such as a briefcase, handbag,

grocery bag, laptop or other electronic device. To turn off the reminder light and/or chime, remove the object from the seat or buckle the seat belt.

Airbag Readiness Light

This light shows if there is an electrical problem with the airbag system. The system check includes the airbag sensor(s), the passenger sensing system, the pretensioners, the airbag modules, the wiring, and the crash sensing and diagnostic module. For more information on the airbag system, see *Airbag System* ⇨ 74.



The airbag readiness light comes on for several seconds when the vehicle is started. If the light does not come on then, have it fixed immediately.

Warning

If the airbag readiness light stays on after the vehicle is started or comes on while driving, it means the airbag system might not be working properly. The airbags in the vehicle might not inflate in a crash, or they could even inflate without a crash. To help avoid injury, have the vehicle serviced right away.

If there is a problem with the airbag system, a Driver Information Center (DIC) message may also come on.

Passenger Airbag Status Indicator

The vehicle has a passenger sensing system. See *Passenger Sensing System* ⇨ 79 for important safety information. The passenger airbag status indicator is on the instrument panel.



United States



Canada and Mexico

When the vehicle is started, the passenger airbag status indicator will light ON and OFF, or the symbols for on and off, for several seconds as a system check. Then, after several more seconds, the status indicator will light either ON

or OFF, or the on or off symbol, to let you know the status of the front outboard passenger frontal airbag.

If the word ON or the on symbol is lit on the passenger airbag status indicator, it means that the front outboard passenger frontal airbag is allowed to inflate.

If the word OFF or the off symbol is lit on the airbag status indicator, it means that the passenger sensing system has turned off the front outboard passenger frontal airbag.

If, after several seconds, both status indicator lights remain on, or if there are no lights at all, there may be a problem with the lights or the passenger sensing system. See your dealer for service.

Warning

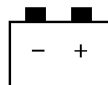
If the airbag readiness light ever comes on and stays on, it means that something may be wrong with the airbag system. To help avoid injury to yourself or others,

(Continued)

Warning (Continued)

have the vehicle serviced right away. See *Airbag Readiness Light* ⇨ 112 for more information, including important safety information.

Charging System Light



The charging system light comes on briefly when the ignition is turned on, but the engine is not running, as a check to show the light is working. The light turns off when the engine is started. If it does not, have the vehicle serviced by your dealer.

If the light stays on, or comes on while driving, there may be a problem with the electrical charging

system. Have it checked by your dealer. Driving while this light is on could drain the battery.

When this light comes on, the Driver Information Center (DIC) also displays a message.

If a short distance must be driven with the light on, be sure to turn off all accessories, such as the radio and air conditioner.

Malfunction Indicator Lamp (Check Engine Light)

This light is part of the vehicle's emission control on-board diagnostic system. If this light is on while the engine is running, a malfunction has been detected and the vehicle may require service. The light should come on to show that it is working when the ignition is in Service Mode. See *Ignition Positions* ⇨ 180.



Malfunctions are often indicated by the system before any problem is noticeable. Being aware of the light and seeking service promptly when it comes on may prevent damage.

Caution

If the vehicle is driven continually with this light on, the emission control system may not work as well, the fuel economy may be lower, and the vehicle may not run smoothly. This could lead to costly repairs that might not be covered by the vehicle warranty.

Caution

Modifications to the engine, transmission, exhaust, intake, or fuel system, or the use of replacement tires that do not meet the original tire specifications, can cause this light to come on. This could lead to costly repairs not covered by the vehicle warranty. This could also affect the vehicle's ability to pass an Emissions Inspection/ Maintenance test. See *Accessories and Modifications* ⇨ 220.

If the light is flashing : A malfunction has been detected that could damage the emission control system and increase vehicle emissions. Diagnosis and service may be required.

To help prevent damage, reduce vehicle speed and avoid hard accelerations and uphill grades.

If the light continues to flash, find a safe place to park. Turn the vehicle off and wait at least 10 seconds before restarting the engine. If the light is still flashing, follow the previous guidelines and see your dealer for service as soon as possible.

If the light is on steady : A malfunction has been detected. Diagnosis and service may be required.

Check the following:

- If fuel has been added to the vehicle using the capless funnel adapter, make sure that it has been removed. See "Filling the Tank with a Portable Gas Can" under *Filling the Tank* ⇨ 214. The diagnostic system can detect if the adapter has been left installed in the vehicle, allowing fuel to evaporate into the atmosphere. A few driving trips with the adapter removed may turn off the light.

- Poor fuel quality can cause inefficient engine operation and poor driveability, which may go away once the engine is warmed up. If this occurs, change the fuel brand. It may require at least one full tank of the proper fuel to turn the light off. See *Recommended Fuel (LT1 6.2L V8 Engine)* ⇨ 212 or *Recommended Fuel (LT4 and LT5 6.2L Supercharged V8 Engines)* ⇨ 213.

If the light remains on, see your dealer.

Emissions Inspection and Maintenance Programs

If the vehicle requires an Emissions Inspection/Maintenance test, the test equipment will likely connect to the vehicle's Data Link Connector (DLC).



The DLC is under the instrument panel to the left of the steering wheel. Connecting devices that are not used to perform an Emissions Inspection/Maintenance test or to service the vehicle may affect vehicle operation. See *Add-On Electrical Equipment* ⇨ 216. See your dealer if assistance is needed.

The vehicle may not pass inspection if:

- The light is on when the engine is running.
- The light does not come on when the ignition is in Service Mode.
- Critical emission control systems have not been completely diagnosed. If this happens, the vehicle would not be ready for inspection and might require several days of routine driving

before the system is ready for inspection. This can happen if the 12-volt battery has recently been replaced or run down, or if the vehicle has been recently serviced.

See your dealer if the vehicle will not pass or cannot be made ready for the test.

Brake System Warning Light

The vehicle brake system consists of two hydraulic circuits. If one circuit is not working, the remaining circuit can still work to stop the vehicle. For normal braking performance, both circuits need to be working.

If the warning light comes on, there is a brake problem. Have the brake system inspected right away.



Metric



BRAKE

English

This light should come on briefly when the engine is started. If it does not come on then, have it fixed so it will be ready to warn you if there is a problem.

If the light comes on and stays on, there is a base brake problem.

Warning

The brake system might not be working properly if the brake system warning light is on. Driving with the brake system warning light on can lead to a crash. If the light is still on after the vehicle has been pulled off the road and carefully stopped, have the vehicle towed for service.

Electric Parking Brake Light



Metric

PARK

English

This light comes on when the parking brake is applied. If the light continues flashing after the parking brake is released, or while driving, there is a problem with the Electric Parking Brake system. A message may also display in the Driver Information Center (DIC).

If the light does not come on, or remains flashing, see your dealer.

Service Electric Parking Brake Light



The service electric parking brake light should come on briefly when starting the vehicle. If it does not come on, have the vehicle serviced by your dealer.

If this light stays on, there is a problem with a system on the vehicle that is causing the parking brake system to work at a reduced level. The vehicle can still be driven, but should be taken to a dealer as soon as possible. See *Electric Parking Brake* ⇨ 195. A message may also display in the Driver Information Center (DIC).

Antilock Brake System (ABS) Warning Light



This light comes on briefly when the engine is started.

If the light does not come on, have it fixed so it will be ready to warn if there is a problem.

If the light comes on while driving, stop as soon as it is safely possible and turn off the vehicle. Then start the engine again to reset the system. If the ABS light stays on, or comes on again while driving, the vehicle needs service. A chime may also sound when the light comes on steady.

If the ABS light is the only light on, the vehicle has regular brakes, but the antilock brakes are not functioning.

If both the ABS and the brake system warning light are on, the vehicle's antilock brakes are not functioning and there is a problem with the regular brakes. See your dealer for service.

See *Brake System Warning Light* ⇨ 115.

Traction 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 turns off.

The traction off light comes on when the Traction Control System (TCS) has been turned off by pressing and releasing the TCS/Stability Control button.

This light and the Electronic Stability Control (ESC) OFF light come on when ESC is turned off.

If the TCS is off, wheel spin is not limited. Adjust driving accordingly.

See *Traction Control/Electronic Stability Control* ⇨ 198.

Traction Control System (TCS)/Electronic Stability Control Light



If equipped, the Electronic Stability Control (ESC) or TCS indicator/warning light comes on briefly when the engine is started.

If the light does not come on, have the vehicle serviced by your dealer. If the system is working normally, the indicator light turns off.

If the light is on and not flashing, the TCS, and potentially the ESC system have been disabled.

If the indicator/warning light is on and flashing, the TCS and/or the ESC system is actively working.

See *Traction Control/Electronic Stability Control* ⇨ 198.

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.

This light comes on when the ESC system is turned off. If ESC is off, the Traction Control System (TCS) is also off.

If the ESC and TCS are off, the system does not assist in controlling the vehicle. Turn on the TCS and the ESC systems and the warning light turns off.

See *Traction Control/Electronic Stability Control* ⇨ 198.

Engine Coolant Temperature Warning Light



This light comes on briefly while starting the vehicle.

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

Caution

The engine coolant temperature warning light indicates that the vehicle has overheated. Driving with this light on can damage the engine and it may not be covered by the vehicle warranty. See *Engine Overheating* ⇨ 247.

The engine coolant temperature warning light comes on when the engine has overheated.

If this happens, pull over and turn off the engine as soon as possible. See *Engine Overheating* ⇨ 247.

Tire Pressure Light



For vehicles with the Tire Pressure Monitor System (TPMS), this light comes on briefly when the engine is started. It provides information about tire pressures and the TPMS.

When the Light Is On Steady

This indicates that one or more of the tires are significantly underinflated.

A Driver Information Center (DIC) tire pressure message may also display. Stop as soon as possible, and inflate the tires to the pressure value shown on the Tire and Loading Information label. See *Tire Pressure* ⇨ 274.

When the Light Flashes First and Then Is On Steady

If the light flashes for about a minute and then stays on, there may be a problem with the TPMS. If the problem is not corrected, the light will come on at every ignition cycle. See *Tire Pressure Monitor Operation* ⇨ 276.

Engine Oil Pressure Light

Caution

Lack of proper engine oil maintenance can damage the engine. Driving with the engine oil low can also damage the engine. The repairs would not be covered by the vehicle warranty. Check the oil level as soon as possible. Add oil if required, but if the oil level is within the operating range and the oil pressure is still low, have the vehicle serviced. Always follow the maintenance schedule for changing engine oil.



This light should come on briefly as the engine is started. If it does not come on, have the vehicle serviced by your dealer.

If the light comes on and stays on, it means that oil is not flowing through the engine properly. The vehicle could be low on oil and might have some other system problem. See your dealer.

Low Fuel Warning Light



This light is near the fuel gauge and comes on briefly when the ignition is turned on as a check to show it is working.

It also comes on when the fuel tank is low on fuel. The light turns off when fuel is added. If it does not, have the vehicle serviced.

Security Light



The security light should come on briefly as the engine is started. If it does not come on, have the vehicle serviced by your dealer. If the system is working normally, the indicator light turns off.

If the light stays on and the engine does not start, there could be a problem with the theft-deterrent system. See *Immobilizer Operation* ⇨ 43.

High-Beam On Light



This light comes on when the high-beam headlamps are in use.

See *Headlamp High/Low-Beam Changer* ⇨ 140.

Lamps On Reminder



This light comes on when the exterior lamps are in use. See *Exterior Lamp Controls* ⇨ 139.

Cruise Control Light



For vehicles with cruise control, the cruise control light is white when the cruise control is on and ready, and turns green when the cruise control is set and active.

The light turns off when the cruise control is turned off. See *Cruise Control* ⇨ 207.

Door Ajar Light

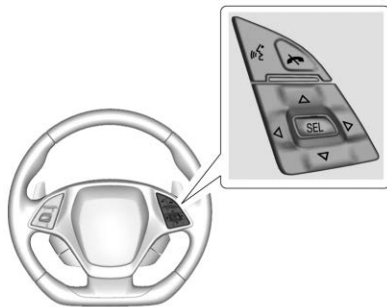


This light comes on when a door is open or not securely latched. Before driving, check that all doors are properly closed.

Information Displays

Driver Information Center (DIC)

The DIC displays are shown in the center of the instrument cluster in the Info application. See *Instrument Cluster* ⇨ 103. The Info application is only available when the ignition is on. The displays show the status of many vehicle systems. The controls for the DIC are on the right steering wheel control.



△ or ▽ : Press to move up or down in a list.

◀ or ▶ : Press ◀ to open application menus on the left. Press ▶ to open interaction menus on the right.

SEL : Press to open a menu or select a menu item. Press and hold to reset values on certain screens.

DIC Info Pages

The following is the list of all possible DIC info displays. Depending on the vehicle, some may not be available.

Current Speed : Displays the vehicle speed in either kilometers per hour (km/h) or miles per hour (mph).

Trip A or B/Average Fuel Economy/Average Speed : Trip displays the current distance traveled, in either kilometers (km) or miles (mi), since the trip odometer was last reset. The trip odometer can be reset by pressing and holding SEL while this display is active.

Average Fuel Economy displays the approximate average liters per 100 kilometers (L/100 km) or miles per gallon (mpg). This number is calculated based on the number of L/100 km (mpg) recorded since the last time this menu item was reset. This number reflects only the approximate average fuel economy that the vehicle has right now, and will change as driving conditions change. The Average Fuel Economy can be reset by pressing and holding SEL while this display is active.

Average Speed displays the average speed of the vehicle in kilometers per hour (km/h) or miles per hour (mph). This average is calculated based on the various vehicle speeds recorded since the last reset of this value. The average speed can be reset by pressing and holding SEL while this display is active.

Fuel Range/Instantaneous Fuel Economy : Fuel Range displays the approximate distance the vehicle can be driven without refueling.

LOW will be displayed when the vehicle is low on fuel. The fuel range estimate is based on an average of the vehicle's fuel economy over recent driving history and the amount of fuel remaining in the fuel tank.

Instantaneous Fuel Economy displays the current fuel economy in either liters per 100 kilometers (L/100 km) or miles per gallon (mpg). This number reflects only the approximate fuel economy that the vehicle has right now and changes frequently as driving conditions change.

This display may also show the number of cylinders the vehicle is running on. See *Active Fuel Management (Except ZR1/LT5)* ⇨ 185.

Oil Life : Displays an estimate of the oil's remaining useful life. If REMAINING OIL LIFE 99% is displayed, that means 99% of the current oil life remains.

When the remaining oil life is low, the CHANGE ENGINE OIL SOON message will appear on the display. The oil should be changed as soon as possible. See *Engine Oil* ⇨ 232. In addition to the engine oil life system monitoring the oil life, additional maintenance is recommended in the Maintenance Schedule. See *Maintenance Schedule* ⇨ 312.

The Oil Life display must be reset after each oil change. It will not reset itself. Do not reset the Oil Life display accidentally at any time other than when the oil has just been changed. It cannot be reset accurately until the next oil change. To reset the engine oil life system, press and hold SEL for several seconds while the Oil Life display is active. See *Engine Oil Life System* ⇨ 237.

Tire Pressure : Displays the approximate pressures of all four tires. Tire pressure is displayed in either kilopascal (kPa) or in pounds per square inch (psi). If the pressure is low, the value for that tire is

shown in amber. See *Tire Pressure Monitor System* ⇨ 275 and *Tire Pressure Monitor Operation* ⇨ 276.

Best Average Fuel Economy : Displays the average fuel economy, the best fuel economy over the selected distance, and a bar graph showing instantaneous fuel economy. Press ▷ to change the selected distance.

Fuel Used/Timer : Displays the approximate liters (L) or gallons (gal) of fuel that have been used since last reset. The fuel used can be reset by pressing and holding SEL while this display is active.

This display can also be used as a timer. To start/stop the timer, press ▷ while this display is active and then SEL to start/stop the timer. The display will show the amount of time that has passed since the timer was last reset. To reset the timer to zero, press and hold SEL or use ▷ to access the menu while this display is active.

ECO Index : Aids the driver in determining how efficiently they are driving.

This display may also show the number of cylinders the vehicle is running on. See *Active Fuel Management (Except ZR1/LT5)* ⇨ 185.

Speed Limit : Displays sign information, which comes from a roadway database in the onboard navigation.

Engine Hours/Lifetime Revs : Displays the total number of hours the engine has run. It also shows total engine revolutions divided by 10,000.

Head-Up Display (HUD)

Warning

If the HUD image is too bright, or too high in your field of view, it may take you more time to see things you need to see when it is
(Continued)

Warning (Continued)

dark outside. Be sure to keep the HUD image dim and placed low in your field of view.

If equipped with HUD, some information concerning the operation of the vehicle is projected onto the windshield.

The HUD information appears as an image focused out toward the front of the vehicle.

Caution

If you try to use the HUD image as a parking aid, you may misjudge the distance and damage your vehicle. Do not use the HUD image as a parking aid.

The HUD information can be displayed in various languages. The speedometer reading and other numerical values can be displayed in either English or metric units.

The language selection is changed through the radio and the units of measurement is changed through the instrument cluster. See *Vehicle Personalization* ⇨ 128 and “Settings” under *Instrument Cluster* ⇨ 103.

The HUD may display different alerts and information for vehicles equipped with these features:

- Speedometer
- Tachometer
- Manual Transmission Gear (If Equipped)
- Manual Paddle Shift Gear Indicator (If Equipped)

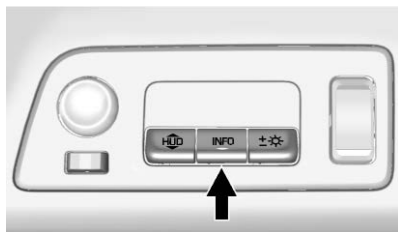
These displays on the HUD are for use when using the manual paddle shift controls to shift the transmission. See “Manual Paddle Shift” in *Manual Mode* ⇨ 189.

- Shift Light

This light is used for performance driving to indicate that the vehicle's best performance level has been reached to shift the transmission

into the next higher gear. An arrow pointing up will light up on the display just prior to reaching the engine fuel cut-off mode.

- G-Force Gauge
- Audio Information
- Upcoming Maneuver from OnBoard Navigation
- Upcoming Maneuver from OnStar
- Incoming Call



The HUD control is to the left of the steering wheel on the instrument panel.

To adjust the HUD image so that items are properly displayed:

1. Adjust the driver seat.

2. Start the engine.
3. Adjust the following HUD settings as needed.

HUD : Press down or lift up to adjust the vertical position of the HUD image in the windshield.

INFO : Press to select the display view. Each press will cause the display view to change to the next view. If vehicle messages are displayed, pressing the DIC select button may clear the message. See *Driver Information Center (DIC)* ⇨ 121.

±☀ : Lift up and hold to brighten the display. Press down and hold to dim the display. Hold down to turn the display off.

The HUD image will automatically dim and brighten to compensate for outside lighting. The HUD brightness control can also be adjusted as needed.

The HUD image can temporarily light up depending on the angle and position of the sunlight on the HUD display. This is normal.

Polarized sunglasses could make the HUD image harder to see.

Head-Up Display (HUD) Rotation Option

This feature allows for adjusting the angle of the HUD image.

Use the right steering wheel controls to open and scroll through different items and displays.

While in the options menu, press $\triangle$ or ∇ to scroll to the HUD rotation page. Press $\triangleright$ while Head-Up Display Rotation is highlighted to enter Adjust Mode.

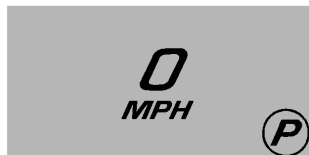
Press $\triangle$ or ∇ to adjust the angle of the HUD display. Press SEL to save the setting. To cancel the setting, press $\triangleleft$. The vehicle must be in P (Park). See *Instrument Cluster* ⇨ 103.

Display Views

There are several HUD views that can be displayed:



Metric



English

Tour : Displays the vehicle speed, gear position, shift indicator, and driver mode.



Metric

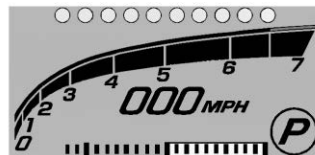


English

Sport : Displays the vehicle speed, a circular tachometer, gear position, shift indicator, and G-Force meter.



Metric



English

Track : Displays the vehicle speed, a linear tachometer, gear position, shift lights, and G-Force meter.



Metric



English

Timing : Displays a linear tachometer, gear position, shift lights, and performance or lap timer.

The performance or lap timer content displayed depends on which feature is currently in use in the instrument cluster. See *Instrument Cluster* ⇨ 103.

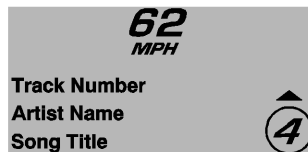
Interrupts

The interrupt information temporarily displays in any HUD view. Once displayed, HUD returns to the previous HUD view. Interrupts may include:

- Audio Information
- Navigation Turn-by-Turn Information
- Incoming Call Information
- Vehicle Alerts

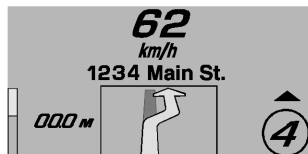


Metric

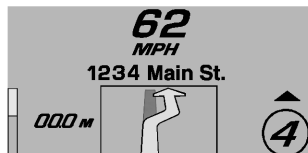


English

Audio : May display when a new source, radio station, or media type is selected.



Metric



English

Navigation : Turn-by-turn navigation information may be displayed when Navigation is active

and an upcoming maneuver is pending. It appears until the maneuver is complete and then the HUD display returns to the previous view.

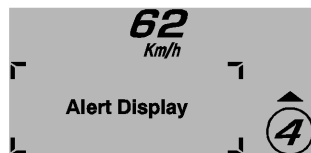


Metric

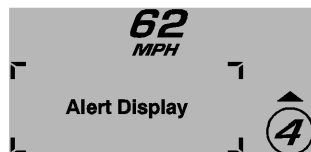


English

Phone : May display when an incoming call is received from either OnStar or a Bluetooth connected phone. It appears momentarily until the call is answered or ignored.



Metric



English

Vehicle Alerts : Alerts can be dismissed in the instrument cluster. All alerts are not displayed in the HUD.

Care of the HUD

Clean the inside of the windshield to remove any dirt or film that could reduce the sharpness or clarity of the HUD image.

Clean the HUD lens with a soft cloth sprayed with glass cleaner. Wipe the lens gently, then dry it.

HUD Troubleshooting

Check that:

- Nothing is covering the HUD lens.
- HUD brightness setting is not too dim or too bright.
- HUD is adjusted to the proper height.
- Polarized sunglasses are not worn.
- Windshield and HUD lens are clean.

If the HUD image is not correct, contact your dealer.

The windshield is part of the HUD system. See *Windshield Replacement* ⇨ 255.

Vehicle Messages

Messages displayed on the DIC indicate the status of the vehicle or some action that may be needed to correct a condition. Multiple messages may appear one after another.

The messages that do not require immediate action can be acknowledged and cleared by pressing ✓. The messages that require immediate action cannot be cleared until that action is performed.

All messages should be taken seriously; clearing the message does not correct the problem.

If a SERVICE message appears, see your dealer.

Follow the instructions given in the messages. The system displays messages regarding the following topics:

- Service Messages
- Fluid Levels
- Vehicle Security

- Brakes
- Steering
- Ride Control Systems
- Driver Assistance Systems
- Cruise Control
- Lighting and Bulb Replacement
- Wiper/Washer Systems
- Doors and Windows
- Seat Belts
- Airbag Systems
- Engine and Transmission
- Tire Pressure
- Battery

Engine Power Messages

ENGINE POWER IS REDUCED

This message displays when the vehicle's propulsion power is reduced. Reduced propulsion power can affect the vehicle's ability to accelerate. If this message is on, but there is no observed reduction in performance, proceed to your destination. The performance may

be reduced the next time the vehicle is driven. The vehicle may be driven while this message is on, but maximum acceleration and speed may be reduced. Anytime this message stays on, or displays repeatedly, the vehicle should be taken to your dealer for service as soon as possible.

Vehicle Speed Messages

SPEED LIMITED TO XXX KM/H (MPH)

This message shows that the vehicle speed has been limited to the speed displayed. The limited speed is a protection for various propulsion and vehicle systems, such as lubrication, thermal, suspension, or tires.

Vehicle Personalization

Use the audio system controls to access the personalization menus for customizing vehicle features.

The following are all possible personalization features. Depending on the vehicle, some may not be available.

Infotainment System Audio System Controls

To access the personalization menu:

1. Touch **SETTINGS** on the Home Page on the infotainment display.
2. Touch the desired feature to display a list of available options.
3. Touch to select the desired feature setting.
4. Press  **BACK** on the center stack or touch **Back** on the infotainment display to return to the previous menu.

Personalization Menus

The following list of menu items may be available:

- Time and Date
- Driving Mode
- Language
- Valet Mode
- Teen Driver
- Radio
- Vehicle
- Bluetooth
- Apple CarPlay
- Android Auto
- Voice
- Display
- Rear Camera
- Return to Factory Settings
- Software Information
- Wi-Fi

Each menu is detailed in the following information.

Time and Date

Manually set the time and date. See *Clock* ⇨ 100.

Driving Mode

Select and the following may display:

- Engine Sound Management
- Steering

Engine Sound Management

This allows the Engine Sound Management feature to be set independent of the Driver Mode Selector. See *Track Events and Competitive Driving* ⇨ 161.

Select Auto (Mode Selector), Stealth, Tour, Sport, or Track.

Steering

This allows the Steering feature to be turned on or off.

Select Auto (Mode Selector), Tour, Sport, or Track.

Language

Select Language, then select from the available language(s).

The selected language will display on the system, and voice recognition will reflect the selected language.

Valet Mode

This will lock the infotainment system and steering wheel controls. It may also limit access to vehicle storage locations.

To enable Valet Mode:

1. Enter a four-digit code on the keypad.
2. Select Enter to go to the confirmation screen.
3. Re-enter the four-digit code.

Touch Lock or Unlock to lock or unlock the system. Touch Back to go back to the previous menu.

Teen Driver

See “Teen Driver” under “Settings” in the infotainment manual.

Radio

Select and the following may display:

- Manage Favorites
- Number of Favorites Shown
- Audible Touch Feedback
- Bose AudioPilot
- Maximum Start Up Volume

Manage Favorites

This allows favorites to be edited. See “Manage Favorites” in “Settings” under “Radio” in the infotainment manual.

Number of Favorites Shown

Touch to set the number of favorites to display.

Select the desired number or select Auto and the infotainment system will automatically adjust the number of favorites shown.

Audible Touch Feedback

This allows Audible Touch Feedback to be turned on or off.

Select Off or On.

Bose AudioPilot

This feature adjusts the volume based on the noise in the vehicle. See “Bose AudioPilot Noise Compensation Technology” under “Infotainment System Settings” in the infotainment manual.

Select Off or On.

Maximum Start Up Volume

This feature sets the maximum startup volume. If the vehicle is started and the volume is greater than this level, the volume is adjusted to this level.

To set the maximum startup volume, touch + or – to increase or decrease.

Vehicle

Select and the following may display:

- Climate and Air Quality
- Comfort and Convenience
- Lighting
- Power Door Locks

- Remote Lock, Unlock, Start

Climate and Air Quality

Select and the following may display:

- Auto Fan Speed
- Auto Defog
- Auto Rear Defog

Auto Fan Speed

This feature will set the auto fan speed.

Select Low, Medium, or High.

Auto Defog

When set to On, the front defog will automatically react to temperature and humidity conditions that may cause fogging.

Select Off or On.

Auto Rear Defog

If equipped, this feature will automatically turn on the rear defog.

Select Off or On.

Comfort and Convenience

Select and the following may display:

- Auto Memory Recall
- Easy Exit Options
- Chime Volume
- Reverse Tilt Mirror

Auto Memory Recall

This feature automatically recalls the current driver's previously stored 1 or 2 button positions when the ignition is changed from off to on or ACC/ACCESSORY. See *Memory Seats* ⇨ 60.

Select Off or On.

Easy Exit Options

This feature automatically recalls the previously stored Exit button position when exiting the vehicle. See *Memory Seats* ⇨ 60.

Select Off or On.

Chime Volume

This allows the selection of the chime volume level.

Touch + or – to adjust the volume.

Reverse Tilt Mirror

This allows the feature to be turned on or off.

Select Off, On - Driver and Passenger, On - Driver, or On - Passenger.

Lighting

Select and the following may display:

- Vehicle Locator Lights
- Exit Lighting

Vehicle Locator Lights

This feature will flash the turn signal lamps and turn on some of the exterior lamps when  on the Remote Keyless Entry (RKE) transmitter is pressed to locate the vehicle.

Select Off or On.

Exit Lighting

This allows the selection of how long the exterior lamps stay on when leaving the vehicle when it is dark outside.

Select Off, 30 Seconds, 60 Seconds, or 120 Seconds.

Power Door Locks

Select and the following may display:

- Unlocked Door Anti-Lockout
- Auto Door Unlock
- Delayed Door Lock

Unlocked Door Anti-Lockout

When on, this feature will keep the driver door from locking when the door is open. If Off is selected, the Delayed Door Lock menu will be available.

Select Off or On.

Auto Door Unlock

This allows selection of which of the doors will automatically unlock when the vehicle is shifted into P (Park)

with an automatic transmission or when the vehicle is turned off with a manual transmission.

Select Off, All Doors, or Driver Door.

Delayed Door Lock

When on, this feature will delay the locking of the doors. To override the delay, press the power door lock switch on the door.

Select Off or On.

Remote Lock, Unlock, Start

Select and the following may display:

- Remote Unlock Light Feedback
- Remote Lock Feedback
- Remote Door Unlock
- Remote Start Auto Cool Seats
- Remote Start Auto Heat Seats
- Passive Door Unlock
- Passive Door Lock
- Remote Left in Vehicle Alert

Remote Unlock Light Feedback

When on, the exterior lamps will flash when unlocking the vehicle with the RKE transmitter.

Select Off or Flash Lights.

Remote Lock Feedback

This allows selection of what type of feedback is given when locking the vehicle with the RKE transmitter.

Select Off, Lights and Horn, Lights Only, or Horn Only.

Remote Door Unlock

This allows selection of which doors will unlock when pressing  on the RKE transmitter.

Select All Doors or Driver Door.

Remote Start Auto Cool Seats

If equipped and turned on, this feature will turn the ventilated seats on when using remote start on warm days.

Select Off or On.

Remote Start Auto Heat Seats

If equipped and turned on, this feature will turn the heated seats on when using remote start on cold days.

Select Off or On.

Passive Door Unlock

This allows the selection of what doors will unlock when using the door handle sensor on the driver door to unlock the vehicle.

Select All Doors or Driver Door.

Passive Door Lock

This feature can be turned on or off, or feedback can be selected. See *Remote Keyless Entry (RKE) System Operation* ⇨ 27.

Select Off, On with Horn Chirp, or On.

Remote Left in Vehicle Alert

This feature sounds an alert when the RKE transmitter is left in the vehicle. This menu also enables Remote No Longer in Vehicle Alert.

Select Off or On.

Bluetooth

Select and the following may display:

- Pair New Device
- Device Management
- Ringtones
- Voice Mail Numbers
- Text Message Alerts

Pair New Device

Select to pair a new device. See “Pairing” in “Infotainment Controls” under “Bluetooth” in the infotainment manual.

Device Management

Select to connect to a different phone source, disconnect a phone, or delete a phone.

Ringtones

Press to change the ring tone for the specific phone. The phone does not need to be connected to change the ring.

Voice Mail Numbers

This feature displays the voice mail number for all connected phones. To change the voice mail number, select EDIT. Type a new number, then select SAVE.

Text Message Alerts

This allows the feature to be turned on or off.

Select Off or On.

Apple CarPlay

Select and the following may display:

- Apple CarPlay
- Manage Apple CarPlay Devices

Apple CarPlay

This feature allows Apple devices to be connected to the infotainment system through a USB port. See “Apple CarPlay and Android Auto” under “Phone” in the infotainment manual.

Select Off or On.

Manage Apple CarPlay Devices

Select to manage Apple devices. Apple CarPlay must be on for this feature to be accessed. See “Apple CarPlay and Android Auto” under “Phone” in the infotainment manual.

Android Auto

Select and the following may display:

- Android Auto
- Manage Android Auto Devices

Android Auto

This feature allows Android devices to be connected to the infotainment system through a USB port. See “Apple CarPlay and Android Auto” under “Phone” in the infotainment manual.

Select Off or On.

Manage Android Auto Devices

Select to manage Android devices. Android Auto must be on for this feature to be accessed. See “Apple CarPlay and Android Auto” under “Phone” in the infotainment manual.

Voice

Select and the following may display:

- Confidence Threshold
- Prompt Length
- Audio Feedback Speed
- Display “What Can I Say?” Tips

Confidence Threshold

This feature allows the adjustment of the sensitivity of the speech recognition system.

Select Confirm More or Confirm Less.

Prompt Length

This feature adjusts the voice prompt length.

Select Short or Long.

Audio Feedback Speed

This feature adjusts the audio feedback speed.

Select Slow, Medium, or Fast.

Display “What Can I Say?” Tips

This feature gives tips on what to say when using voice recognition.

Select Off or On.

Display

Select and the following may display:

- Mode
- Calibrate Touchscreen
- Turn Display Off

Mode

Select to change the display screen for day or night driving.

Select Auto, Day, or Night.

Calibrate Touchscreen

Select to calibrate the touchscreen, then follow the prompts.

Turn Display Off

Select to turn the display off. Touch anywhere on the infotainment display or press any infotainment control on the center stack to turn the display on.

Rear Camera

Select and the following may display:

- Guidance Lines

Guidance Lines

Select to turn Off or On. See *Assistance Systems for Parking or Backing* ⇨ 210.

Return to Factory Settings

Select and the following may display:

- Restore Vehicle Settings
- Clear All Private Data
- Restore Radio Settings

Restore Vehicle Settings

This allows selection of restoring vehicle settings.

Select Restore or Cancel.

Clear All Private Data

This allows selection to clear all private information from the vehicle.

Select Delete or Cancel.

Restore Radio Settings

This allows selection to restore radio settings.

Select Restore or Cancel.

Software Information

Select to update or view the infotainment system current software information.

Wi-Fi

Select and the following may display:

- Wi-Fi
- Manage Wi-Fi Networks

Wi-Fi

This feature allows Wi-Fi networks to be turned off or on.

Select Off or On.

Manage Wi-Fi Networks

Select to manage Wi-Fi networks. Wi-Fi must be on for this feature to be accessed.

Universal Remote System

See *Radio Frequency Statement* ⇨ 340.

The FCC Grant of Equipment Authorization Certificate number is NZLSAHL5B.

The Canadian Registration ID number is 4112A-SAHL5B.

Universal Remote System Programming

If equipped, these buttons are in the driver sun visor.

This system can replace up to three remote control transmitters used to activate devices such as garage door openers, security systems, and home automation devices. These instructions refer to a garage door opener, but can be used for other devices.

Do not use the Universal Remote system with any garage door opener that does not have the stop and reverse feature. This includes any garage door opener model manufactured before April 1, 1982.

Read these instructions completely before programming the Universal Remote system. It may help to have another person assist with the programming process.

Keep the original hand-held transmitter for use in other vehicles as well as for future programming. Erase the programming when vehicle ownership is terminated.

See “Erasing Universal Remote System Buttons” later in this section.

To program a garage door opener, park outside directly in line with and facing the garage door opener receiver. Clear all people and objects near the garage door.

Make sure the hand-held transmitter has a new battery for quick and accurate transmission of the radio-frequency signal.

Programming the Universal Remote System

For questions or programming help, see www.homelink.com/gm or call 1-800-355-3515. For calls placed outside the U.S., Canada, or Puerto Rico, international rates will apply and may differ based on landline or mobile phone.

Programming involves time-sensitive actions, and may time out causing the procedure to be repeated.

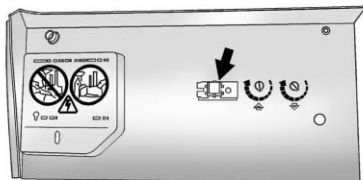
To program up to three devices:

1. Hold the end of the hand-held transmitter about 3 to 8 cm (1 to 3 in) away from the Universal Remote system buttons with the indicator light in view. The hand-held transmitter was supplied by the manufacturer of the garage door opener receiver.
2. At the same time, press and hold both the hand-held transmitter button and one of the three Universal Remote system buttons to be used to operate the garage door. Do not release either button until the indicator light changes from a slow to a rapid flash. Then release both buttons.

Some garage door openers may require substitution of Step 2 with the procedure under “Radio Signals for Some Gate Operators” later in this section.

3. Press and hold the newly programmed Universal Remote system button for five seconds while watching the indicator light and garage door activation.
 - If the indicator light stays on continuously or the garage door moves when the button is pressed, then programming is complete. There is no need to complete Steps 4–6.
 - If the indicator light does not come on or the garage door does not move, a second button press may be required. For a second time, press and hold the newly programmed button for five seconds. If the light stays on or the garage door moves, programming is complete.
 - If the indicator light blinks rapidly for two seconds, then changes to a solid light

and the garage door does not move, continue with programming Steps 4–6.



Learn or Smart Button

4. After completing Steps 1–3, locate the Learn or Smart button inside the garage on the garage door opener receiver. The name and color of the button may vary by manufacturer.
5. Press and release the Learn or Smart button. Step 6 must be completed within 30 seconds of pressing this button.
6. Inside the vehicle, press and hold the newly programmed Universal Remote system button for two seconds and

then release it. If the garage door does not move or the lamp on the garage door opener receiver does not flash, press and hold the same button a second time for two seconds, then release it. Again, if the door does not move or the garage door lamp does not flash, press and hold the same button a third time for two seconds, then release it.

The Universal Remote system should now activate the garage door.

Repeat the process to program the two remaining buttons.

Radio Signals for Some Gate Operators

For questions or programming help, see www.homelink.com/gm or call 1-800-355-3515. For calls placed outside the U.S., Canada, or Puerto Rico, international rates will apply and may differ based on landline or mobile phone.

Some gate operators and radio-frequency laws require transmitter signals to time out or quit after several seconds of transmission. This may not be long enough for the Universal Remote system to pick up the signal during programming.

If the programming did not work, replace Step 2 under “Programming the Universal Remote System” with the following:

Press and hold the Universal Remote system button while pressing and releasing the hand-held transmitter button every two seconds until the signal has been successfully accepted by the Universal Remote system. The Universal Remote system indicator light will flash slowly at first and then rapidly. Proceed with Step 3 under “Programming the Universal Remote System” to complete.

Universal Remote System Operation

Using the Universal Remote System

Press and hold the appropriate Universal Remote system button for at least one-half second. The indicator light will come on while the signal is being transmitted.

Erasing Universal Remote System Buttons

Erase all programmed buttons when vehicle ownership is terminated.

To erase:

1. Press and hold the two outside buttons until the indicator light begins to flash. This should take about 10 seconds.
2. Release both buttons.

Reprogramming a Single Universal Remote System Button

To reprogram any of the system buttons:

1. Press and hold any one of the buttons. Do not release the button.
2. The indicator light will begin to flash after 20 seconds. Without releasing the button, proceed with Step 1 under "Programming the Universal Remote System."

Lighting

Exterior Lighting

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Exterior Lamps Off	
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Changer	140
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Exterior Lighting

Exterior Lamp Controls



There are four positions:

OFF : Turns the exterior lamps off and deactivates the AUTO mode. Turn to **AUTO** again to reactivate the AUTO mode.

In Canada, the headlamps will automatically reactivate when the vehicle is shifted out of P (Park).

AUTO : Sets the exterior lamps to automatic mode. AUTO mode turns the exterior lamps on and off depending on how much light is available outside the vehicle.

To override AUTO mode, turn the control to **OFF**.

To reset to AUTO mode, turn the control to **OFF** and then release back to AUTO. Automatic mode also resets when the vehicle is turned off and then back on again if the control is left in the AUTO position.

Parking Lamps : Turns on the parking lamps including all lamps, except the headlamps.

The parking lamp indicator light comes on and stays on when the parking lamps are on with the engine off and the ignition in ACC/ACCESSORY.

Headlamps : Turns on the headlamps together with the parking lamps and instrument panel lights.

Exterior Lamps Off Reminder

A warning chime will sound if the exterior lamp control is left on in either the headlamp or parking lamp position and the driver door is opened with the ignition off.

Headlamp High/Low-Beam Changer

Push the turn signal lever away from you and release to turn the high beams on. To return to low beams, push the lever again or pull it toward you and release.



This indicator light turns on in the instrument cluster when the high-beam headlamps are on.

Flash-to-Pass

To use the flash-to-pass feature, briefly pull the turn signal lever toward you. The high-beam indicator flashes to indicate to the other driver that you intend to pass.

Daytime Running Lamps (DRL)

DRL can make it easier for others to see the front of your vehicle during the day. DRL are required on all vehicles first sold in Canada.

The DRL system makes the dedicated lamps come on when the following conditions are met:

- It is still daylight and the ignition is on.
- The exterior lamp control is in the AUTO position.
- The transmission is not in P (Park) or the parking brake is off.

When DRL are on, only the front lamps will be on. The parking lamps, taillamps, instrument panel lights, or other exterior lamps will not be on when the DRL are being used.

When it is dark enough outside, the front lamps dim to parking lamps and the normal low-beam headlamps turn on.

When it is bright enough outside, the regular lamps go off, and the front DRL will take over. If the vehicle is started in a dark garage, the automatic headlamp system comes on immediately. Once the vehicle leaves the garage, it takes approximately one minute for the automatic headlamp system to change to DRL if it is light outside. During that delay, the instrument cluster may not be as bright as usual. Make sure the instrument panel brightness knob is in the full bright position. See *Instrument Panel Illumination Control* ➔ 143.

If it is dark enough outside and the exterior lamp control is off, a Driver Information Center (DIC) message may display.

Turning the exterior lamp control to off a second time, or turning on the headlamps will remove the DIC message. If the parking lamps were turned on instead, the DIC message will continue to be displayed.

The regular headlamp system should be turned on when needed.

To turn off the DRL, turn the exterior lamp control to  or shift into P (Park). The DRL will stay off until the control is toggled again or the transmission is shifted out of P (Park).

For vehicles first sold in Canada, the DRL can only be turned off when the vehicle is parked.

Automatic Headlamp System

When the exterior lamp control is set to AUTO and it is dark enough outside, the headlamps and parking lamps come on automatically.



There is a light sensor on top of the instrument panel. Do not cover the sensor, otherwise the headlamps will come on when they are not needed.

The system may also turn on the headlamps and parking lamps when driving through a parking garage or tunnel.

If the vehicle is started in a dark garage, the automatic headlamp system comes on immediately. If it is light outside when the vehicle leaves the garage, there is a slight delay before the automatic headlamp system changes to the DRL. During that delay, the instrument cluster may not be as bright as usual. Make sure the instrument panel brightness control is in the full bright position. See *Instrument Panel Illumination Control* ⇨ 143.

When it is bright enough outside, the headlamps and parking lamps will turn off or may change to Daytime Running Lamps (DRL).

The automatic headlamp system turns off when the exterior lamp control is turned to  or the ignition is off.

To turn automatic headlamp system back on, turn the band to  again, then release it.

If the automatic headlamp system has the headlamps turned on and you turn the ignition off, the headlamps will turn off. When the driver door is opened the headlamps and parking lamps will illuminate for a period of time.

The length of the delayed illumination period can be changed. See “Exit Lighting” under *Vehicle Personalization* ⇨ 128.

The regular headlamp system should be turned on when needed.

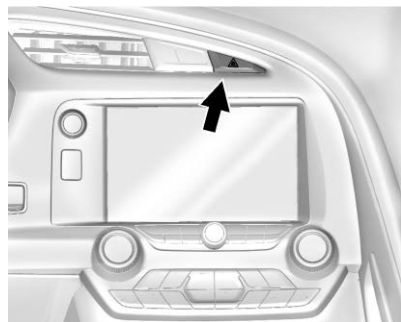
Lights On with Wipers

If the windshield wipers are activated in daylight with the engine on and the exterior lamp control is in AUTO, the headlamps, parking lamps, and other exterior lamps will come on. The time it takes for the

142 Lighting

lamps to turn on depends on the wiper speed. When the wipers are turned off, the lamps turn off. To disable, move the exterior lamp control to  or .

Hazard Warning Flashers



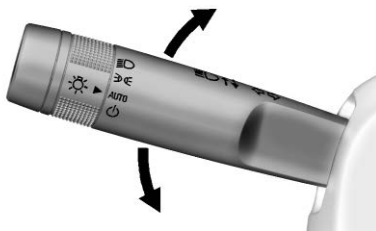
The hazard warning flashers warn others that you have a problem. The button is near the center of the instrument panel.

 : Press to make the front and rear turn signal lamps flash on and off. Press again to turn the flashers off.

The hazard warning flashers work no matter what mode the ignition is in, even if the ignition is turned off.

When the hazard warning flashers are on, the turn signals will not work.

Turn and Lane-Change Signals



An arrow on the instrument cluster flashes in the direction of the turn or lane change.

Move the lever all the way up or down to signal a turn.

Raise or lower the lever until the arrow starts to flash to signal a lane change. Hold it there until the lane change is complete. If the lever is

briefly pressed and released, the turn signal flashes three times. If more flashes are desired, continue to hold the lever.

The lever returns to its starting position when it is released.

If after signaling a turn or lane change the arrows flash rapidly or do not come on, a turn signal indicator light failure may have occurred.

If a turn signal has failed, the lamp may need to be replaced. See your dealer.

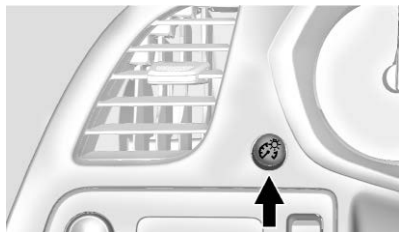
Turn Signal on Chime

A chime sounds if the turn signal has been on for more than 1.2 km (0.75 mi) of driving.

If you need to leave the turn signal on for more than 1.2 km (0.75 mi), turn off the signal and then turn it back on.

Interior Lighting

Instrument Panel Illumination Control



The knob for this feature is on the left side of the instrument panel.

Turn the knob clockwise or counterclockwise to brighten or dim the instrument panel lights at night. Turn the knob completely clockwise to turn on the interior lamps.

Courtesy Lamps

When any door or the hatch/trunk is opened, the interior lamps will come on.

The hatch/trunk lamps only come on when the rear compartment is opened.

To turn the courtesy lamps on or off, turn the instrument panel brightness knob completely clockwise or counterclockwise.

Reading Lamps



The reading lamps are in the overhead console. The lamps go on when a door is opened. When the doors are closed, press the lamp buttons to turn on each lamp.

Lighting Features

Entry Lighting

Some exterior lamps turn on briefly at night, or in areas with limited lighting, when  is pressed on the Remote Keyless Entry (RKE) transmitter. When the driver door is opened, all control lights, Driver Information Center (DIC) lights, and door pocket lights turn on. After about 30 seconds the exterior lamps turn off, and then the dome and remaining interior lamps dim to off. Entry lighting can be disabled manually by turning the ignition to on or ACC/ACCESSORY, or by pressing  on the RKE transmitter.

This feature can be changed. See "Vehicle Locator Lights" under *Vehicle Personalization* ⇨ 128.

Exit Lighting

Some exterior lamps come on at night, or in areas with limited lighting, when the driver door is opened after the ignition is turned

off. The dome lamp comes on after the ignition is turned off. The exterior lamps and dome lamp remain on after the door is closed for a set amount of time, then automatically turn off.

The exterior lamps turn off immediately by turning the exterior lamp control off.

This feature can be changed. See *Vehicle Personalization* ⇨ 128.

Battery Power Protection

This vehicle has a feature to help prevent the battery from being drained in case any of the following lamps are left on: vanity mirror lamps, cargo lamps, reading lamps, or glove box lamps. If any of these lamps are left on, they will automatically time-out after about 10 minutes. To reset it, the ignition must be turned on.

Exterior Lighting Battery Saver

The exterior lamps turn off about 10 minutes after the ignition is turned off, if the parking lamps or headlamps have been manually left on. This protects against draining the battery. To restart the 10-minute timer, turn the exterior lamp control to the off position and then back to the parking lamp or headlamp position.

To keep the lamps on for more than 10 minutes, the ignition must be on or in ACC/ACCESSORY.

Infotainment System

Introduction

Infotainment 145

Performance Data Recorder (PDR)

Performance Data Recorder (PDR) 145

Introduction

Infotainment

See the infotainment manual for information on the radio, audio players, phone, navigation system, and voice or speech recognition. It also includes information on settings.

Active Noise Cancellation (ANC)

If equipped, ANC reduces engine noise in the vehicle's interior. ANC requires the factory-installed audio system, radio, speakers, amplifier (if equipped), induction system, and exhaust system to work properly. Deactivation is required by your dealer if related aftermarket equipment is installed.

Performance Data Recorder (PDR)

If equipped, the PDR icon displays on the Home Page.

Important Information

Use of the PDR may be prohibited or legally restricted in certain countries and situations. Ensure compliance with applicable laws and regulations, including, but not limited to: privacy laws, laws related to camera surveillance and recordings, road traffic and security laws, and laws on the protection of publicity and personality rights.

- Do not use the PDR if it causes distraction.
- Do not rely on camera footage to steer the vehicle.
- Comply with any notice and consent requirements before capturing and/or recording the voices or images of other persons or before collecting other personal data.

- Notify other drivers of your vehicle of the above rules and require them to comply.
- General Motors does not accept any responsibility or liability in connection with use that is not permitted.
- Law enforcement authorities may have the right to seize video recordings and use them as evidence of criminal/driving offenses against you or third parties.

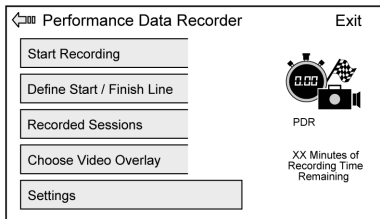
The PDR records video, audio, and vehicle data. This data is stored on a removable SD card in the glove box.

The recorded data is not stored anywhere else and is only accessible from the SD card.

To begin, insert a FAT32 formatted SD card, Class 10 required, 8, 16, or 32 GB recommended, into the glove box SD card reader.

Touch the PDR icon to access the PDR menu. The options displayed are:

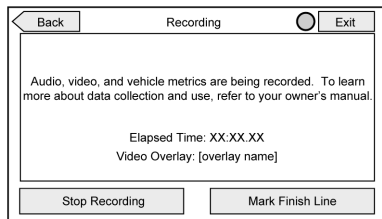
Start Recording



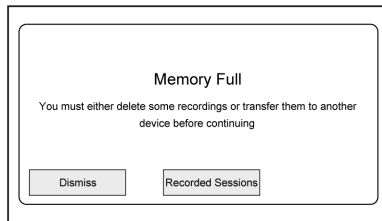
If the system is unable to begin recording, the Start Recording button is grayed out.

Touch Start Recording to begin recording. After recording begins, this button changes to Stop Recording. Touch to stop the recording session.

The recording must be stopped and the file closed before removing the SD card, or the recording cannot be reviewed.

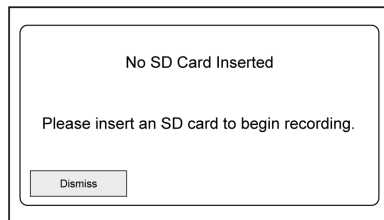


The elapsed time will show when recording. To define a finish line, see “Define Finish Line” later in this section.



If there is no available space on the SD card, a message displays. Delete or transfer recordings on the SD card or use another SD card with free space.

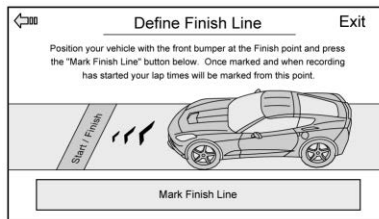
To delete a recording, go to the Recorded Sessions menu and touch **X** next to the item. See "Recorded Sessions" later in this section.



If no SD card is inserted, a message displays.

Define Finish Line

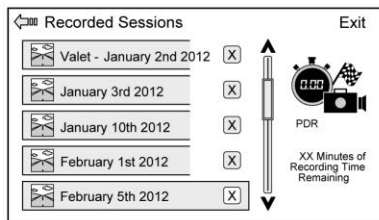
To track and record the vehicle's lap times, the starting point of a lap must be set. Crossing this point activates the lap timer when recording.



To set the finish line, position the vehicle with the front bumper at the start/finish point. From the PDR menu, touch Define Finish Line and then touch Mark Finish Line. This can be done with the vehicle moving.

Recorded Sessions

To view recorded videos, touch Recorded Sessions.



A list of recordings displays.

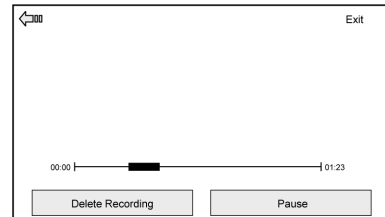
Select the recording to start playback.

Touch **X** next to an item to delete that recording. Touch Yes to delete or No to cancel on the confirmation screen. Touch Dismiss to exit.

Video playback is not allowed while the vehicle is in motion.

Tap on the screen while the video is playing to display the video controls:

Video Scrubber : Changes the position and playback. The length of the bar corresponds to the time of the video. Advance or rewind the video by dragging along the bar.



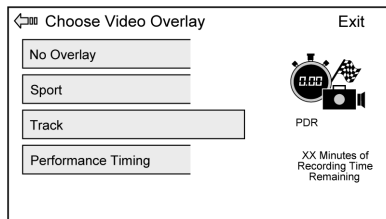
Delete Recording : Touch to delete the video. A confirmation screen displays. Touch Yes to delete or No to cancel.

Pause/Play : Touch to play or pause the video. The button will change when touched.

◀ : Touch to display the previous screen.

Exit : Touch to exit the current display.

Choose Video Overlay



Touch Choose Video Overlay to display the menu screen.

Select one:

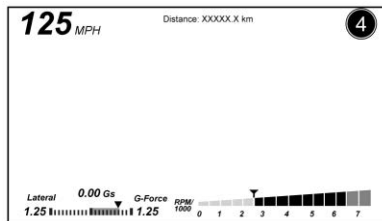
- No Overlay
- Sport

- Track
- Performance Timing

No Overlay:

No vehicle data displays on top of the recorded video. Vehicle data is still available with the video when accessed in the toolbox software.

Sport:

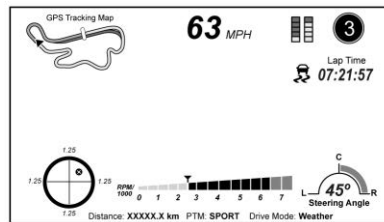


Displays these vehicle metrics:

- Vehicle Speed: Up to three digits are displayed in km/h or MPH depending on vehicle settings.
- Engine Rotations Per Minute (RPMs): The vertical line and triangle show current RPMs. As the RPMs increase, the backfill follows.

- Transmission State (Current Gear): Automatic and manual transmissions display 1, 2, etc.
- Lateral G-Force Graphic: Left and Right G-Forces are displayed. The graphic fills to the left or the right depending on the measure value. The measured G-Force displays as a number at the top of the graphic.
- Event Odometer: This displays the distance driven since the recording began.

Track:



Displays these vehicle metrics:

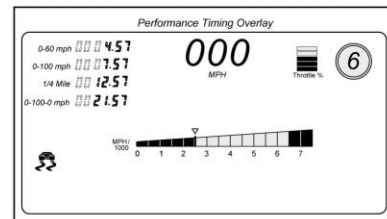
- Vehicle Speed: Same as Sport.

- **GPS Tracking Map:** Shows the vehicle's current position relative to a known route.
- **Engine Rotations Per Minute (RPMs):** The vertical line and triangle indicate current RPMs. As the RPMs increase, the backfill follows.
- **Transmission State (Current Gear):** Same as Sport.
- **Friction Bubble Graphic:** Lateral and longitudinal G-Forces are displayed as a dot within a bubble. A red dot displays when the vehicle starts braking and turns green when the vehicle accelerates. The dot is white when the vehicle is not moving. A white dot is the default.
- **Brake and Throttle Graphic:** Displays the percentage value of brake and throttle pedal position from 0–100%.
- **Steering Angle:** The graphic fills from the center to the left or right depending on the direction of

steering. The numerical steering angle displays below the graphic.

- **Active Handling Active Indicator:** The graphic only displays if the active handling systems are activated.
- **Performance Traction Management (PTM) Mode:** Displays the current PTM mode. The options are Wet, Dry, Sport 1, Sport 2, or Race.
- **Current Lap Time:** Displays the elapsed lap time if the finish line is defined and the vehicle has crossed the defined finish line at least once.
- **Event Odometer:** This displays the distance driven since the recording began.
- **Drive Mode:** Displays the vehicle's current drive mode.

Performance Timing:



Displays these vehicle metrics:

- **Vehicle Speed:** Same as Sport.
- **Engine Rotations Per Minute (RPMs):** Same as Sport.
- **Transmission State (Current Gear):** Same as Sport.
- **0–100 km/h (0–60 mph), 0–200 km/h (0–100 mph), 400 m (1/4 th mi), and 0–200–0 km/h (0–100–0 mph):** The timer starts recording as soon as the vehicle accelerates. As the vehicle passes each speed and distance milestone, it is displayed on the overlay.

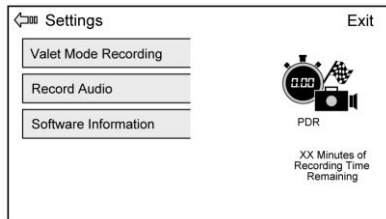
- **Throttle Position:** Displays the percentage of throttle applied from 0–100%.
- **Active Handling Active Indicator:** The graphic only displays if the active handling systems are activated.

Naming Convention

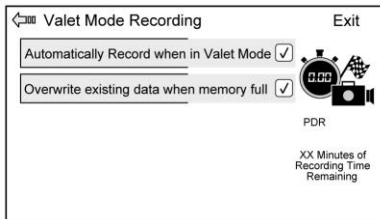
The recorded video file name is stored as the recorded date and the length of the recording.

If the recorded session was recorded while the system was in Valet Mode, the file name will display the mode, date, and length of time.

Settings



Touch Settings on the PDR menu to display settings.



Valet Mode Recording : Allows recording preferences to be selected. It is recommended that a blank SD card be used. Available choices are:

- **Automatically record when in Valet Mode:** Enables the PDR to begin recording as soon as the vehicle is in Valet Mode.
- **Overwrite existing data when memory full:** Allows manual overwriting of previous recordings, one at a time starting with the oldest, when the current recording requires additional storage to continue.

Valet Mode does not record audio.

Record Audio : Allows audio to be recorded along with video.

Audio will not record during Valet Mode.

Software Information : Displays PDR software information and version numbers.

Toolbox Software : Allows for the evaluation of driver and vehicle performance during a recorded event. See www.Corvette.com to download the software.

Climate Controls

Climate Control Systems

Dual Automatic Climate Control System 151

Air Vents

Air Vents 155

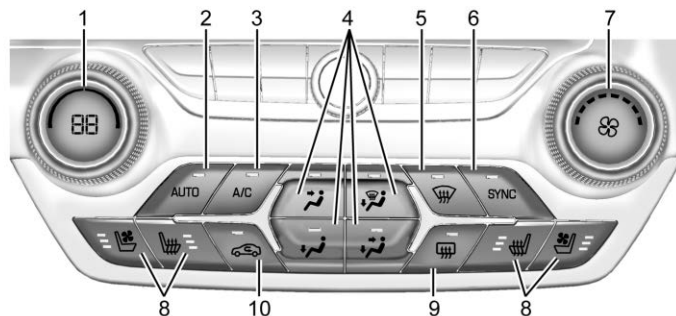
Maintenance

Passenger Compartment Air
Filter 155
Service 156

Climate Control Systems

Dual Automatic Climate Control System

The heating, cooling, and ventilation for the vehicle can be controlled with this system.



1. Driver Temperature Control
2. AUTO (Automatic Operation)
3. A/C (Air Conditioning)
4. Air Delivery Modes
5. Defrost
6. SYNC

7. Fan Control
8. Driver and Redundant Passenger Heated and Ventilated Front Seat Controls
9. Rear Window Defogger
10. Recirculation



Passenger Temperature Control

The passenger temperature control is below the passenger side air vent.

On/Off System Operation

Press AUTO to turn the system on. Turn the fan control knob completely counterclockwise to turn the fan off.

Automatic Operation

The system automatically controls the fan speed, air delivery, air conditioning, and recirculation in order to heat or cool the vehicle to the desired temperature.

When AUTO is lit, all four functions operate automatically. Each function can also be manually set and the setting is displayed. The AUTO indicator will turn off. Functions not manually set will continue to be automatically controlled, even if the AUTO indicator is not lit.

For automatic operation:

1. Press AUTO.
2. Set the temperature. Allow the system time to stabilize. Then adjust the temperature as needed for best comfort.

The system operates to reach the set temperature as quickly as possible. The AUTO control system works best with the windows up and the removable roof panel installed or the convertible top up.

Manual Operation

Driver and Passenger Temperature Control : The temperature can be adjusted separately for the driver and passenger.

Turn the knob clockwise or counterclockwise to increase or decrease the driver temperature setting. Press Δ or ∇ to increase or decrease the passenger temperature setting.

SYNC : Press to link all climate zone settings to the driver settings. The SYNC indicator light will turn on. When the passenger temperature setting is adjusted, the SYNC indicator light turns off.

Fan Control : Turn the knob clockwise or counterclockwise to increase or decrease the fan speed. Turn the knob completely counterclockwise to turn the fan off.

Press AUTO to return to automatic operation.

Air Delivery Modes : Press , , , or  to change the direction of the airflow. An indicator light comes on in the selected mode button.

Changing the mode cancels the automatic operation and the system goes into manual mode. Press AUTO to return to automatic operation.

 : Air is directed to the instrument panel outlets.

 : Air is directed to the floor outlets.

 : Air is directed to the instrument panel outlets and the floor outlets.

 : Air is directed to the windshield and floor outlets to clear the windows of fog or moisture. The recirculation mode cannot be selected while in the defog mode.

 : Press to clear the windshield of fog or frost more quickly. Air is directed to the windshield and side window outlets. The recirculation mode cannot be selected while in defrost mode.

For best results, clear all snow and ice from the windshield before defrosting.

Do not drive the vehicle until all the windows are clear.

A/C : Press to turn the air conditioning on or off. If the fan is turned off, the air conditioner will not run and the indicator light may turn off.

Press AUTO to return to automatic operation and the air conditioner runs as needed. When the indicator light is on, the air conditioner runs automatically to cool the air inside the vehicle or to dry the air as needed to defog the windshield faster.

Depending on the engine speed, the air conditioning compressor may shut off and turn on again and a slight change in A/C cooling and engine performance may be noticed. This is normal. The system is designed to make adjustments to help with fuel economy while still maintaining the selected temperature.

If the A/C is turned off, automatic operation is canceled.

 : Press to turn on recirculation. An indicator light comes on. Air is recirculated to

quickly cool the inside of the vehicle or reduce the entry of outside air and odors. Recirculation mode is not available in defrost or defog mode.

Rear Window Defogger

 : Press to turn the rear window defogger on or off. An indicator light on the button comes on to show that the rear window defogger is on.

The defogger only works when the ignition is on. The defogger turns off if the ignition is off or in ACC/ACCESSORY.

The rear window defogger can be set to automatic operation. See "Climate and Air Quality" under *Vehicle Personalization* ⇨ 128. When auto rear defog is selected, the rear window defogger turns on automatically when the interior temperature is cold and the outside temperature is about 4 °C (40 °F) and below. The auto rear defogger turns off automatically after about 10 minutes.

The heated outside mirrors turn on with the rear window defogger and help to clear fog or frost from the surface of the mirror. See *Heated Mirrors* ⇨ 45.

If equipped with a convertible top, the rear window defogger and heated mirrors are automatically disabled when the convertible top is moving or down.

Caution

Using a razor blade or sharp object on the inside rear window can damage the antenna or defogger. Repairs would not be covered by the vehicle warranty. Do not stick anything to the rear window.

 /  : If equipped, press to heat or ventilate the seat. See *Heated and Ventilated Front Seats* ⇨ 65.

Remote Start Climate Control Operation (If Equipped) : If remote start is used to start the vehicle, the climate control system will come on, depending on the outside temperature. The rear window defogger or heated outside mirrors may come on based on cold ambient conditions. The rear defog indicator light may not come on during a remote start. The heated or ventilated seats may turn on if it is cold or hot outside.

See *Remote Vehicle Start* ⇨ 33 and *Heated and Ventilated Front Seats* ⇨ 65, if equipped.

Sensors

The interior cabin air temperature and solar sensor on top of the instrument panel near the windshield monitors the solar heat and measures the initial interior cabin temperature.

The climate control system uses the sensor information to adjust the temperature, fan speed, recirculation, and air delivery mode for best comfort.

The humidity and windshield temperature sensor is on the windshield glass inside surface near the rearview mirror. The automatic climate control system uses this sensor to receive information to determine the need for defogging.

If any of these sensors are blocked or covered, the automatic climate control system may not work properly.

There is also a sensor behind the front bumper. This sensor reads the outside air temperature and helps to maintain the temperature inside the vehicle. Any cover on the front of the vehicle could give a false reading in the temperature.

Air Vents

Use the tab on the air outlets to change the direction of the airflow.

Operation Tips

- Clear away any ice, snow, or leaves from the air inlets at the base of the windshield that may block the flow of air into the vehicle.
- Clear snow off the hood to improve visibility and help decrease moisture drawn into the vehicle.
- Use of non-GM approved hood deflectors may adversely affect the performance of the system.
- Keep the area around the base of the instrument panel console and air path under the seats clear of objects to help circulate the air inside of the vehicle more effectively.

Maintenance

Passenger Compartment Air Filter

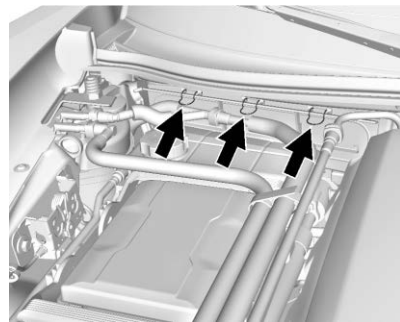
The passenger compartment air filter reduces dust, pollen, and other airborne irritants from outside air that is pulled into the vehicle. Reductions in airflow, which may occur more often in dusty areas, indicate that the filter may need to be replaced. See *Maintenance Schedule* ⇨ 312.

Caution

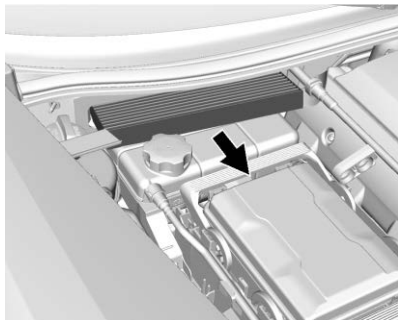
Driving without a passenger compartment air filter in place can cause water and small particles, like paper and leaves, to be pulled into your climate control system which may cause damage to it. Make sure you always replace the old filter with a new one.

The passenger compartment air filter is on the passenger side of the engine compartment near the coolant surge tank. See *Engine Compartment Overview* ⇨ 225.

To check or replace the air filter:



1. Release the retainer clips from the passenger compartment air filter cover. The PVC hoses may need to be held out of the way briefly to access the air filter cover.
2. Remove the cover.



3. Remove the filter and install the new air filter.
4. Replace the filter cover.
5. Attach the retainer clips.

Service

All vehicles have a label underhood that identifies the refrigerant used in the vehicle. The refrigerant system should only be serviced by trained and certified technicians. The air conditioning evaporator should never be repaired or replaced by one from a salvage vehicle.

It should only be replaced by a new evaporator to ensure proper and safe operation.

During service, all refrigerants should be reclaimed with proper equipment. Venting refrigerants directly to the atmosphere is harmful to the environment and may also create unsafe conditions based on inhalation, combustion, frostbite, or other health-based concerns.

The air conditioning system requires periodic maintenance. See *Maintenance Schedule* ⇨ 312.

Driving and Operating

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Driving Information**Distracted Driving**

Distraction comes in many forms and can take your focus from the task of driving. Exercise good judgment and do not let other activities divert your attention away from the road. Many local governments have enacted laws regarding driver distraction. Become familiar with the local laws in your area.

To avoid distracted driving, keep your eyes on the road, keep your hands on the steering wheel, and focus your attention on driving.

- Do not use a phone in demanding driving situations. Use a hands-free method to place or receive necessary phone calls.
- Watch the road. Do not read, take notes, or look up information on phones or other electronic devices.

- Designate a front seat passenger to handle potential distractions.
- Become familiar with vehicle features before driving, such as programming favorite radio stations and adjusting climate control and seat settings. Program all trip information into any navigation device prior to driving.
- Wait until the vehicle is parked to retrieve items that have fallen to the floor.
- Stop or park the vehicle to tend to children.
- Keep pets in an appropriate carrier or restraint.
- Avoid stressful conversations while driving, whether with a passenger or on a cell phone.

 Warning

Taking your eyes off the road too long or too often could cause a crash resulting in injury or death. Focus your attention on driving.

Refer to the infotainment manual for more information on using that system and the navigation system, if equipped, including pairing and using a cell phone.

Defensive Driving

Defensive driving means “always expect the unexpected.” The first step in driving defensively is to wear the seat belt. See *Seat Belts* ⇨ 66.

- Assume that other road users (pedestrians, bicyclists, and other drivers) are going to be careless and make mistakes. Anticipate what they might do and be ready.
- Allow enough following distance between you and the driver in front of you.

- Focus on the task of driving.

Drunk Driving

Death and injury associated with drinking and driving is a global tragedy.

 Warning

Drinking and then driving is very dangerous. Your reflexes, perceptions, attentiveness, and judgment can be affected by even a small amount of alcohol. You can have a serious — or even fatal — collision if you drive after drinking.

Do not drink and drive or ride with a driver who has been drinking. Ride home in a cab; or if you are with a group, designate a driver who will not drink.

Control of a Vehicle

Braking, steering, and accelerating are important factors in helping to control a vehicle while driving.

Braking

Braking action involves perception time and reaction time. Deciding to push the brake pedal is perception time. Actually doing it is reaction time.

Average driver reaction time is about three-quarters of a second. In that time, a vehicle moving at 100 km/h (60 mph) travels 20 m (66 ft), which could be a lot of distance in an emergency.

Helpful braking tips to keep in mind include:

- Keep enough distance between you and the vehicle in front of you.
- Avoid needless heavy braking.
- Keep pace with traffic.

If the engine ever stops while the vehicle is being driven, brake normally but do not pump the brakes. Doing so could make the pedal harder to push down. If the engine stops, there will be some power brake assist but it will be used when the brake is applied.

Once the power assist is used up, it can take longer to stop and the brake pedal will be harder to push.

Steering

Electric Power Steering

The vehicle has electric power steering. It does not have power steering fluid. Regular maintenance is not required.

If power steering assist is lost due to a system malfunction, the vehicle can be steered, but may require increased effort.

If the steering assist is used for an extended period of time while the vehicle is not moving, power assist may be reduced.

If the steering wheel is turned until it reaches the end of its travel and is held against that position for an extended period of time, power steering assist may be reduced.

Normal use of the power steering assist should return when the system cools down.

See your dealer if there is a problem.

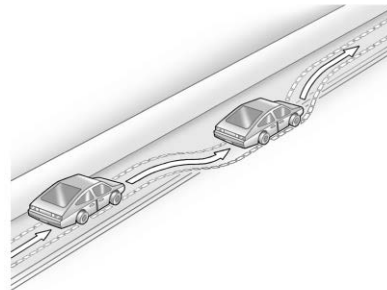
Curve Tips

- Take curves at a reasonable speed.
- Reduce speed before entering a curve.
- Maintain a reasonable steady speed through the curve.
- Wait until the vehicle is out of the curve before accelerating gently into the straightaway.

Steering in Emergencies

- There are some situations when steering around a problem may be more effective than braking.
- Holding both sides of the steering wheel allows you to turn 180 degrees without removing a hand.
- The Antilock Brake System (ABS) allows steering while braking.

Off-Road Recovery



The vehicle's right wheels can drop off the edge of a road onto the shoulder while driving. Follow these tips:

1. Ease off the accelerator and then, if there is nothing in the way, steer the vehicle so that it straddles the edge of the pavement.
2. Turn the steering wheel about one-eighth of a turn, until the right front tire contacts the pavement edge.

3. Turn the steering wheel to go straight down the roadway.

Loss of Control

Skidding

There are three types of skids that correspond to the vehicle's three control systems:

- Braking Skid — wheels are not rolling.
- Steering or Cornering Skid — too much speed or steering in a curve causes tires to slip and lose cornering force.
- Acceleration Skid — too much throttle causes the driving wheels to spin.

Defensive drivers avoid most skids by taking reasonable care suited to existing conditions, and by not overdriving those conditions. But skids are always possible.

If the vehicle starts to slide, follow these suggestions:

- Ease your foot off the accelerator pedal and steer the way you want the vehicle to go. The vehicle may straighten out. Be ready for a second skid if it occurs.
- Slow down and adjust your driving according to weather conditions. Stopping distance can be longer and vehicle control can be affected when traction is reduced by water, snow, ice, gravel, or other material on the road. Learn to recognize warning clues — such as enough water, ice, or packed snow on the road to make a mirrored surface — and slow down when you have any doubt.
- Try to avoid sudden steering, acceleration, or braking, including reducing vehicle speed by shifting to a lower gear. Any sudden changes could cause the tires to slide.

Remember: Antilock brakes help avoid only the braking skid.

Track Events and Competitive Driving



Danger

High-performance features are intended for use only on closed tracks by experienced and qualified drivers and should not be used on public roads. High-speed driving, aggressive cornering, hard braking, and other high-performance driving can be dangerous. Improper driver inputs for the conditions may result in loss of control of the vehicle, which could injure or kill you or others. Always drive safely.

Participating in track events or other competitive driving without following the instructions provided may affect the vehicle warranty. See the warranty manual before using the

vehicle for racing or other competitive driving. See *Competitive Driving Mode* ⇨ 203.

A manual transmission is recommended for extended track usage at higher ambient temperatures. Consult the Track Preparation Guide for additional information. See your dealer.

Be sure to follow all service procedures before driving the vehicle at track events or competitively.

Prior to each track event and again before re-entering the public road system, tighten the wheel nuts with a torque wrench to the proper torque specification. See *Capacities and Specifications* ⇨ 326.

Engine Sound Management Setting

Caution

Do not place the vehicle in Engine Sound Management – Stealth mode. Damage could result to exhaust valve actuators.

Engine Oil

Caution

If the vehicle is used for track events and competitive driving, the engine may use more oil than it would with normal use. Low oil levels can damage the engine. Check the oil level often and maintain the proper level. See *Engine Oil* ⇨ 232.

The engine is factory filled with 0W-40 dexos2 oil. For LT1 and LT4 engines only, 0W-40 dexos2 engine oil is approved for both track and street use. 15W-50 full synthetic

engine oil may also be used for track use, but after track use must be changed back to 0W-40 dexos2 for street use. If 0W-40 dexos2 oil is not available, 5W-30 dexos1 full synthetic engine oil may be used for street use. If 5W-30 dexos1 is used, it must be changed to 0W-40 dexos2 or 15W-50 full synthetic engine oil for track use.

For the LT5 engine, SAE 15W-50 full synthetic engine oil must be used for track use, but after track use must be changed back to 0W-40 dexos2 for street use.

Z51 Performance Package, Grand Sport, Z06, and ZR1: Check the oil level often during track events and competitive driving and keep the level at or near 0.5 L (0.5 qt) above the upper mark that shows the proper operating range on the engine oil dipstick. After the competitive driving, remove excess oil so that the level on the dipstick is not above the upper mark that shows the proper operating range.

Stingray without Z51 Performance Package: Additional oil fill above the upper mark on the dipstick is not recommended for track events or other competitive driving. Check the oil level often during racing or other competitive driving and keep the level at or near the upper mark that shows the proper operating range on the engine oil dipstick. After the competitive driving, remove excess oil so that the level on the dipstick is not above the upper mark that shows the proper operating range.

Fuel

LT1 Engine : 93 octane (or higher) unleaded gasoline is required.

LT4 Engine : 93 octane (or higher) unleaded gasoline is required. 100 octane (or higher) unleaded gasoline is recommended at the track when temperatures are above 30 °C (86 °F) to maximize powertrain performance and improve longevity of components within the powertrain.

LT5 Engine : 93 octane (or higher) unleaded gasoline is required. 100 octane (or higher) unleaded gasoline is recommended to maximize powertrain performance and improve longevity of components within the powertrain.

Caution

Some high octane fuels contain additives and compounds that may damage the vehicle and void the vehicle warranty. See *Prohibited Fuels* ⇨ 213.

Automatic Transmission Fluid

Transmission fluid should be changed after every 15 hours of track usage. Any transmission level set or change should be performed at your dealer.

Manual Transmission Fluid

Manual transmission fluid should be changed after every 15 hours of track usage.

Load Limit

Z51 Performance Package Only: Limit vehicle load to the driver only, with no other cargo. Inflate tires to 180 kPa (26 psi) and drive at a maximum speed of 280 km/h (174 mph).

Grand Sport, Z06, and ZR1 Only: Limit vehicle load to the driver only, with no other cargo. Inflate tires to 180 kPa (26 psi) and drive at a maximum speed of 296 km/h (184 mph).

Wheel Alignment

Caution

Using these wheel alignment settings may cause excessive tire wear. Only use these wheel alignment settings for racing or competitive driving. Excessive tire wear is not covered under the vehicle warranty.

ZR1 FEB suspension equipped vehicles can be lowered 12 mm in the front for optimal track performance. Lowering the vehicle should be completed prior to the track suspension alignment. The front spring outboard ends must be unloaded from the front control arms in order to adjust the spring cushion adjuster screws upward by approximately 6–9 mm to achieve the lowered condition. Driving on the public roads in this condition is not recommended.

Caution

Failure to unload the front spring outboard ends before adjusting the spring cushion adjuster screws could damage the spring.

If the vehicle is a Z51, Grand Sport, Z06, or ZR1, the racing and competitive driving wheel alignment settings should be set as described here:

- Z51 Performance Package – remove one washer from each upper control arm to body bolt attachment (both front and rear).
- Grand Sport, Z06, and ZR1 models – do not remove washers from front or rear upper control arm bolts.

Proceed by adjusting the lower control arm cam bolts until alignment is within specifications. Alignment values are targets. See your dealer for tolerances.

After track use, reinstall washers and reset to factory alignment settings.

Front (per corner)

- Caster: +7.0 degrees
- Camber: -2.0 degrees
- Toe: 0.05 degrees toe in

Rear (per corner)

- Caster: 0 degrees
- Camber: -2.0 degrees
- Toe: 0.05 degrees toe in

Thrust Angle: 0 degrees

Rear Axle Fluid

Caution

During a first time track or racing event, high rear axle temperatures can occur. Damage could be caused to the rear axle and would not be covered by the vehicle warranty. Do not drive as long or as fast the first time the vehicle is driven on the track or raced.

Axles must have 2414 km (1,500 mi) before being used in track driving.

The rear axle fluid temperatures may be higher than when driving in severe conditions. Drain and refill with new fluid after the first racing or competitive driving event, and then

after every 24 hours of racing or competitive driving. See *Recommended Fluids and Lubricants* ⇨ 321.

General Information

If reduced performance is experienced during track events or competitive driving, turning off the A/C will help to improve engine performance.

Maintain a mixture of 40% DEX-COOL coolant and 60% clean, drinkable water to optimize engine performance.

The front license plate bracket or aero panel should be removed for track events and competitive driving to improve engine performance.

Brakes

Warning

Braking above 200 mph:
(Continued)

Warning (Continued)

Applying and sustaining full force braking at speeds exceeding 200 mph (322 km/h) can cause serious damage to the braking system. At any speed, braking must be performed in a smooth and controlled manner, but at these speeds specifically, lower initial brake pedal efforts are recommended.

Brake Cooling

If additional brake cooling is required, the grille mesh in the lower corners of the front grille in front of the brake duct can be removed. This is not reversible, and a replacement grille will not be covered by the vehicle warranty. If this is done, it is recommended that the gap between the fascia and the cooling duct be taped over.

Brake Fluid

Replace existing brake fluid with a qualified high performance brake fluid from a sealed container. Brake fluid with a dry boiling point >310 °C (590 °F) is qualified. If high performance brake fluid is used, replace it with GM approved brake fluid before driving on public roads. If high performance brake fluid is in the vehicle and the age of the brake fluid is over a month old or unknown, replace the brake fluid before track events and competitive driving. Do not use silicone or DOT-5 brake fluids.

Brake Burnishing

New brake pads must be burnished before racing or other competitive driving.

Caution

Performing the brake burnish procedure on a base brake system can result in brake damage.

Caution

The new vehicle break-in period should be completed before performing the brake burnish procedure, otherwise damage may occur to the powertrain/engine. See *New Vehicle Break-In* ⇨ 179.

Caution

Brake pedal fade will occur during any track burnish procedure and can cause brake pedal travel and force to increase. This could extend stopping distance until the brakes are fully burnished.

When this procedure is performed as instructed, it will not damage the brakes. The brake pads will smoke and produce an odor. The braking force and pedal travel may increase. After the procedure, the brake pads may appear white at the rotor contact.

Perform this procedure only on dry pavement, in a safe manner, and in compliance with all local and state ordinances/laws regarding motor vehicle operation.

Brake Burnishing Procedure (Z51 Performance Package, Grand Sport with J56, and Z06 with J56)

1. Apply the brakes 25 times starting at 100 km/h (60 mph) to 50 km/h (30 mph) while decelerating at 0.4 g. This is a medium brake application. Drive for at least 1 km (0.6 mi) between applying the brakes. This first step may be skipped if there are more than 320 km (200 mi) on the brake pads.
2. Repeatedly apply the brakes from 100 km/h (60 mph) to 25 km/h (15 mph) while decelerating at 0.8 g. This is a hard brake application, without activating the Antilock Brake System (ABS). Drive for at least 1 km (0.6 mi) between stops. Repeat until the brake pedal travel starts to increase.

Depending on conditions, this should take no longer than 25 brake applications.

3. Cool down: Drive at 100 km/h (60 mph) for approximately 15 km (10 mi) without using the brakes.
4. Apply the brakes 25 times from 100 km/h (60 mph) to 50 km/h (30 mph) while decelerating at 0.4 g. This is a medium brake application. Drive for at least 1 km (0.6 mi) between applications.

Street High Performance Brake Burnishing Procedure (Grand Sport with J57, Z06 with J57, and ZR1)

This procedure should only be run on a track or other non-public area, and only on dry pavement.

1. From a stop, accelerate as rapidly as possible without activating traction control to a speed of 100 km/h (60 mph).

2. Use enough pedal force to completely stop the vehicle in four to five seconds. If ABS activates, braking is too hard.
3. Repeat Steps 1 and 2 – 20 consecutive times, this should take about 5 minutes.
4. After completing the 20 stops, cool the brakes by driving for 8 km (5 mi) at 100 km/h (60 mph).

As with all high performance brake systems, some amount of brake squeal is normal.

Racing/Track Brake Burnishing Procedure (Grand Sport with J57, Z06 with J57, and ZR1)

This procedure should only be run on a track and only on dry pavement.

Caution

Brake pedal fade will occur during this track burnish procedure and can cause brake pedal travel and
(Continued)

Caution (Continued)

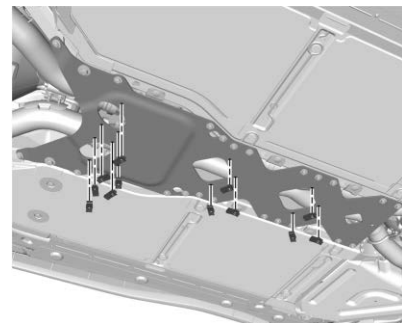
force to increase. This could extend stopping distance until the brakes are fully burnished.

1. Drive a normal first lap, not too aggressively.
2. Laps 2 and 3 should be gradually driven faster and more aggressively, while allowing for reduced brake output and increased stopping distance due to brake fade.
3. Drive Lap 4 near full speed, while allowing for reduced brake output and increased stopping distance due to brake fade.
4. Laps 5 and 6 should be cool down laps.
5. Lap 7 should be normal driving or an easy out lap.

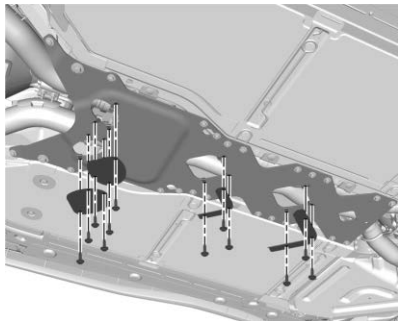
Exhaust Cooling Hardware (ZR1)

The exhaust cooling hardware should be installed prior to any track event. These components will help cool the exhaust system.

To install the closeout plates and deflectors:



1. Install the 12 U-nuts onto the tunnel brace. Align the threaded holes in the U-nuts with the holes in the tunnel brace.



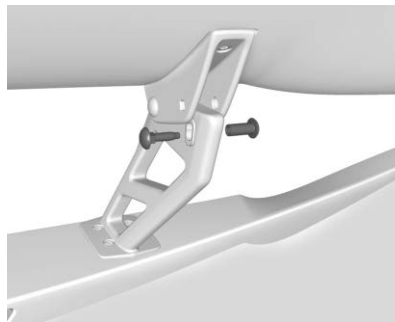
2. Install the two closeout plates over the holes.

Install the two deflectors over the holes, with the shorter one in front.

3. Torque all the fasteners to 9 N•m (6.6 lb ft).

When the track event is complete, remove the closeout plates and deflectors and store them for the next track event.

Rear Adjustable Performance Wing (If Equipped)



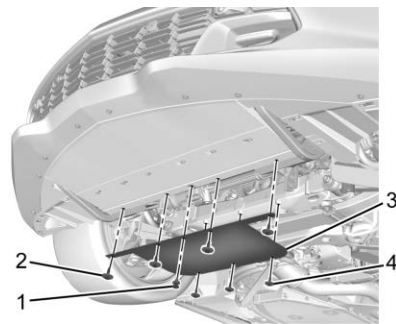
The Rear Adjustable Performance Wing can be adjusted up for greater downforce during a track event.

To change the angle of the rear wing, remove the rear attaching bolts and move them to the upper hole. Tighten the bolts to 9 N•m (6.6 lb ft). Return the wing to the factory location following the track event. Every time the wing is adjusted, re-apply threadlocker to the attachment bolts. See *Recommended Fluids and Lubricants* ⇨ 321.

Front Compartment Air Deflector Panel

Prior to the track event, when ambient temperatures are above 27 °C (80 °F), the panel between the front fascia extension and the front cradle can be removed to maximize cooling air flow to the steering gear power assist motor.

To remove the air deflector:



1. Remove the four front (2) and three rear (4) front compartment air deflector screws.

2. Remove the forward push pin (1).
3. Remove the front compartment air deflector (3) by tipping the rear down and sliding it out from under the lower deflector panel.

When the track events are complete, reinstall this panel.

Z07 Performance Package

Z06 with the Z07 Performance Package has installed Stage 2 and Stage 3 Aero Packages, which consist of a front splitter with short end caps, rocker panel extensions, and a rear spoiler.

Stage 3 Aero components are delivered but not installed on the vehicle. These are intended to be installed for track use only. The components include:

- Front splitter tall end caps that replace the front splitter short end caps
- A center transparent wicker bill for the rear spoiler

Warning

Changing the following track settings could reduce tire traction and could cause a crash. Do not change the track settings.

The track settings for the Z07 Performance Package with the Stage 3 Aero Package are:

- The front splitter tall end caps installed
- The center transparent wicker bill installed all the way up on the rear spoiler
- The Driver Mode Selector in Track Mode

Stingray with Performance Package-Carbon Fiber (CFZ)

The Stingray with Performance Package-Carbon Fiber (CFZ) has an installed aero package which consists of a front splitter with short end caps, rocker panel extensions, and a rear spoiler. A center transparent wicker bill for the rear

spoiler is delivered but not installed. This is intended to be installed for track use only.

Front Brake Cooling Duct Kit (Z06 and ZR1)

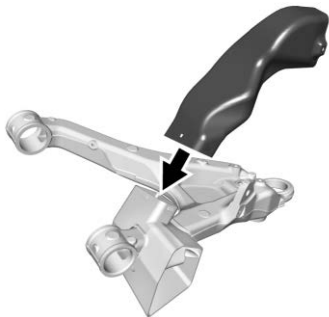
The following installation procedure is for Z06/ZR1 vehicles. The upper cooling ducts should be installed prior to any track events or high speed straight runs.

To install the cooling ducts:

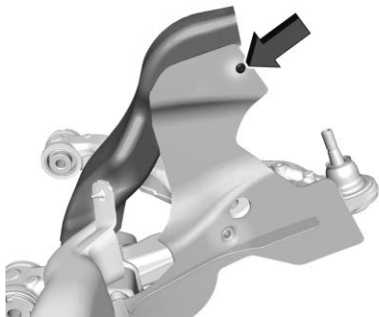
1. Remove the front wheels. Refer to the procedure in the vehicle service manual.



2. Position the u-nut on the upper duct.



3. Position the upper duct and snap it into the tabs on the airbox assembly. Position the upper duct through the bottom of the vehicle to bring it close to the tab position.



4. Align the lower control arm deflector hole to the upper duct hole. Install the screw and torque it to 4 N•m (35 lb inch).
5. Repeat the procedure for the opposite side of the vehicle.
6. Install the front wheels. Refer to the procedure in the vehicle service manual.

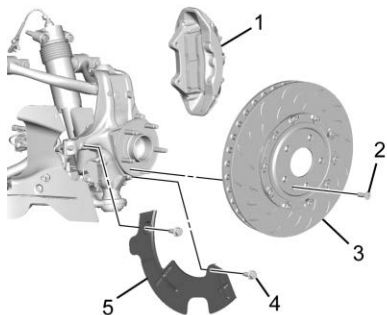
Prepare the vehicle for street use by removing the upper cooling ducts installed prior to the track event.

Wheel Blocker

The following installation procedure is for Z06 vehicles with the J56 brake package and should be installed prior to any track events. The wheel blocker helps improve the cooling of the brake rotor.

Caution
The wheel blocker is for track use only. After a track event, remove the wheel blocker and reinstall the original splash shield. Failure to reinstall the original parts may lead to damage to the wheel blocker, noise, premature brake pad and rotor wear, and high speed wet braking.

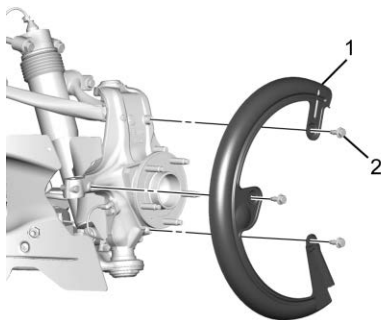
To install the wheel blocker:



1. Remove the front wheels. Refer to the procedure in the vehicle service manual.
2. Remove the brake caliper (1) from the steering knuckle. Do not disconnect the brake hose. Refer to the procedure in the vehicle service manual.
3. Remove the brake rotor retaining fastener (2) and then remove the brake rotor (3).

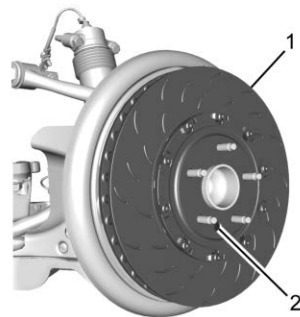
4. Remove the two splash shield fasteners (4).

5. Remove the splash shield (5).

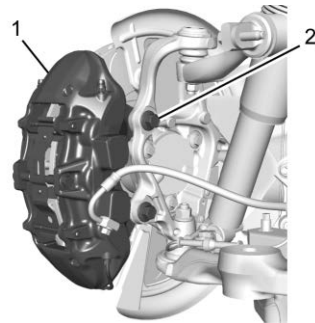


6. Install the wheel blocker (1).

7. Install the three wheel blocker fasteners (2). Torque to 10 N•m (89 lb inch).



8. Install the rotor (1) with the fastener (2). Torque to 10 N•m (89 lb inch).



9. Install the caliper (1) with the two fasteners (2). Torque to 220 N•m (162 lb ft).
10. Repeat the procedure for the opposite side of the vehicle.
11. Reinstall the wheels using the specified lug nut torque. Refer to the procedure in the vehicle service manual.
12. After a track event, repeat the steps to reinstall the original splash shield.

Driving on Wet Roads

Rain and wet roads can reduce vehicle traction and affect your ability to stop and accelerate. Always drive slower in these types of driving conditions and avoid driving through large puddles and deep-standing or flowing water.



Warning

Wet brakes can cause crashes. They might not work as well in a quick stop and could cause pulling to one side. You could lose control of the vehicle.

After driving through a large puddle of water or a car/vehicle wash, lightly apply the brake pedal until the brakes work normally.

Flowing or rushing water creates strong forces. Driving through flowing water could cause the vehicle to be carried away. If this happens, you and other vehicle occupants could drown. Do not ignore police warnings and be very cautious about trying to drive through flowing water.

Caution

Driving through deep puddles or standing water can cause water to come in through the engine air intake and damage the engine. If deep puddles or standing water cannot be avoided, proceed with caution and do not exceed 8 km/h (5 mph). Do not drive through water that may come close to or cover the vehicle's underbody.

Hydroplaning

Hydroplaning is dangerous. Water can build up under the vehicle's tires so they actually ride on the water. This can happen if the road is wet enough and you are going fast enough. When the vehicle is hydroplaning, it has little or no contact with the road.

There is no hard and fast rule about hydroplaning. The best advice is to slow down when the road is wet.

Other Rainy Weather Tips

Besides slowing down, other wet weather driving tips include:

- Allow extra following distance.
- Pass with caution.
- Keep windshield wiping equipment in good shape.
- Keep the windshield washer fluid reservoir filled.
- Have good tires with proper tread depth. See *Tires* ⇨ 265.
- Turn off cruise control.

Hill and Mountain Roads

Driving on steep hills or through mountains is different than driving on flat or rolling terrain. Tips include:

- Keep the vehicle serviced and in good shape.
- Check all fluid levels and brakes, tires, cooling system, and transmission.
- Shift to a lower gear when going down steep or long hills.

Warning

Using the brakes to slow the vehicle on a long downhill slope can cause brake overheating, can reduce brake performance, and could result in a loss of braking. Shift the transmission to a lower gear to let the engine assist the brakes on a steep downhill slope.

Warning

Coasting downhill in N (Neutral) or with the ignition off is dangerous. This can cause overheating of the brakes and loss of steering assist. Always have the engine running and the vehicle in gear.

- Drive at speeds that keep the vehicle in its own lane. Do not swing wide or cross the center line.

- Be alert on top of hills; something could be in your lane (e.g., stalled car, crash).
- Pay attention to special road signs (e.g., falling rocks area, winding roads, long grades, passing or no-passing zones) and take appropriate action.

Winter Driving

Driving on Snow or Ice

Snow or ice between the tires and the road creates less traction or grip, so drive carefully. Wet ice can occur at about 0 °C (32 °F) when freezing rain begins to fall. Avoid driving on wet ice or in freezing rain until roads can be treated.

For Slippery Road Driving:

- Accelerate gently. Accelerating too quickly causes the wheels to spin and makes the surface under the tires slick.
- Turn on Traction Control. See *Traction Control/Electronic Stability Control* ⇨ 198.

- The Antilock Brake System (ABS) improves vehicle stability during hard stops, but the brakes should be applied sooner than when on dry pavement. See *Antilock Brake System (ABS)* ⇨ 195.
- Allow greater following distance and watch for slippery spots. Icy patches can occur on otherwise clear roads in shaded areas. The surface of a curve or an overpass can remain icy when the surrounding roads are clear. Avoid sudden steering maneuvers and braking while on ice.
- Turn off cruise control.

Blizzard Conditions

Stop the vehicle in a safe place and signal for help. Stay with the vehicle unless there is help nearby. If possible, use Roadside

Assistance. See *Roadside Assistance Program* ⇨ 334. To get help and keep everyone in the vehicle safe:

- Turn on the hazard warning flashers.
- Tie a red cloth to an outside mirror.

Warning

Snow can trap engine exhaust under the vehicle. This may cause exhaust gases to get inside. Engine exhaust contains carbon monoxide (CO), which cannot be seen or smelled. It can cause unconsciousness and even death.

If the vehicle is stuck in snow:

- Clear snow from the base of the vehicle, especially any blocking the exhaust pipe.

(Continued)

Warning (Continued)

- Open a window about 5 cm (2 in) on the vehicle side that is away from the wind, to bring in fresh air.
- Fully open the air outlets on or under the instrument panel.
- Adjust the climate control system to circulate the air inside the vehicle and set the fan speed to the highest setting. See “Climate Control Systems.”

For more information about CO, see *Engine Exhaust* ⇨ 186.

To save fuel, run the engine for short periods to warm the vehicle and then shut the engine off and partially close the window. Moving about to keep warm also helps.

If it takes time for help to arrive, when running the engine, push the accelerator pedal slightly so the engine runs faster than the idle

speed. This keeps the battery charged to restart the vehicle and to signal for help with the headlamps. Do this as little as possible, to save fuel.

If the Vehicle Is Stuck

Slowly and cautiously spin the wheels to free the vehicle when stuck in sand, mud, ice, or snow.

If stuck too severely for the traction system to free the vehicle, turn the traction system off and use the rocking method. See *Traction Control/Electronic Stability Control* ⇨ 198.

Warning

If the vehicle's tires spin at high speed, they can explode, and you or others could be injured. The vehicle can overheat, causing an engine compartment fire or other damage. Spin the wheels as little as possible and avoid going above 56 km/h (35 mph).

Rocking the Vehicle to Get it Out

Turn the steering wheel left and right to clear the area around the front wheels. Turn off any traction system. Shift back and forth between R (Reverse) and a low forward gear, spinning the wheels as little as possible. To prevent transmission wear, wait until the wheels stop spinning before shifting gears. Release the accelerator pedal while shifting, and press lightly on the accelerator pedal when the transmission is in gear. Slowly spinning the wheels in the forward and reverse directions causes a rocking motion that could free the vehicle. If that does not get the vehicle out after a few tries, it might need to be towed out. If the vehicle does need to be towed out, see *Towing the Vehicle* ⇨ 298.

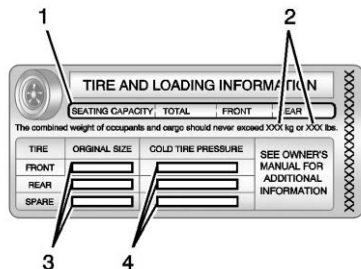
Vehicle Load Limits

It is very important to know how much weight the vehicle can carry. This weight is called the

vehicle capacity weight and includes the weight of all occupants, cargo, and all nonfactory-installed options. Two labels on the vehicle may show how much weight it may properly carry: the Tire and Loading Information label and the Certification label.

Warning

Do not load the vehicle any heavier than the Gross Vehicle Weight Rating (GVWR), or either the maximum front or rear Gross Axle Weight Rating (GAWR). This can cause systems to break and change the way the vehicle handles. This could cause loss of control and a crash. Overloading can also reduce stopping distance, damage the tires, and shorten the life of the vehicle.

Tire and Loading Information Label**Label Example**

A vehicle-specific Tire and Loading Information label is attached to the center pillar (B-pillar). This label shows the number of occupant seating positions (1), and the maximum vehicle capacity weight (2) in kilograms and pounds.

The Tire and Loading Information label also shows the size of the original equipment tires (3) and the recommended

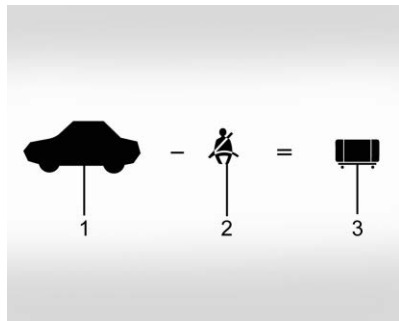
cold tire inflation pressures (4). For more information on tires and inflation see *Tires* ⇨ 265 and *Tire Pressure* ⇨ 274.

There is also important loading information on the vehicle Certification label. It may show the Gross Vehicle Weight Rating (GVWR) and the Gross Axle Weight Rating (GAWR) for the front and rear axle. See "Certification Label" later in this section.

"Steps for Determining Correct Load Limit–

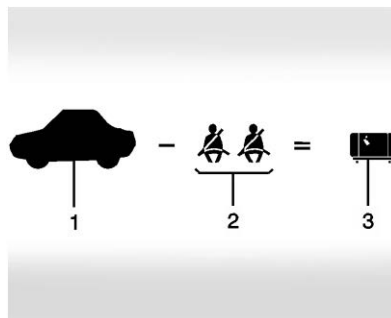
1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1400 lbs. and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. $(1400 - 750 (5 \times 150) = 650 \text{ lbs.})$
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
6. If your vehicle will be towing a trailer, load from your trailer will be transferred to

your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle."



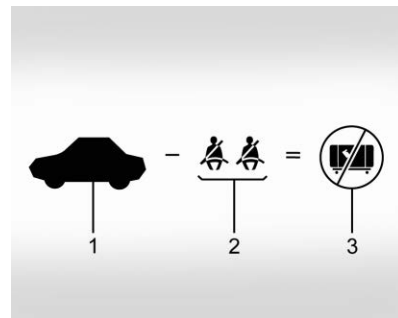
Example 1

1. Vehicle Capacity Weight for Example 1 = 181 kg (400 lbs)
2. Subtract Occupant Weight @ 68 kg (150 lbs) $\times$ 1 = 68 kg (150 lbs)
3. Available Occupant and Cargo Weight = 113 kg (250 lbs)



Example 2

1. Vehicle Capacity Weight for Example 2 = 181 kg (400 lbs)
2. Subtract Occupant Weight @ 68 kg (150 lbs) $\times$ 2 = 136 kg (300 lbs)
3. Available Cargo Weight = 45 kg (100 lbs)



Example 3

1. Vehicle Capacity Weight for Example 3 = 181 kg (400 lbs)
2. Subtract Occupant Weight @ 91 kg (200 lbs) $\times$ 2 = 181 kg (400 lbs)
3. Available Cargo Weight = 0 kg (0 lbs)

Refer to the vehicle's Tire and Loading Information label for specific information about the vehicle's capacity weight and seating positions. The combined

weight of the driver, passengers and cargo should never exceed the vehicle's capacity weight.

Certification Label

GVWR KG LB

GAWR FRT KG LB

GAWR RR KG LB

TYPE: _____

MODEL: _____

A vehicle-specific Certification label is attached to the rear edge of the driver door. It may show the gross weight capacity of the vehicle, called the Gross Vehicle Weight Rating (GVWR). The GVWR includes the weight of the vehicle, all occupants, fuel and cargo.

Caution

Overloading the vehicle may cause damage. Repairs would not be covered by the vehicle warranty. Do not overload the vehicle.

Warning

Things you put inside your vehicle can strike and injure people in a sudden stop or turn, or in a crash.

- Put things in the rear area of your vehicle. Try to spread the weight evenly.
- Never stack heavier things, like suitcases, inside the vehicle so that some of them are above the tops of the seats.

(Continued)

Warning (Continued)

- Do not leave an unsecured child restraint in your vehicle.
- When you carry something inside the vehicle, secure it whenever you can.

Starting and Operating

New Vehicle Break-In

Follow these recommended guidelines during the first 2 414 km (1,500 mi) of driving this vehicle. Parts have a break-in period and performance will be better in the long run.

For the first 322 km (200 mi):

- To break in new tires, drive at moderate speeds and avoid hard cornering.
- New brake linings also need a break-in period. Avoid making hard stops. This is recommended every time brake linings are replaced.

For the first 800 km (500 mi):

- Avoid full throttle starts and abrupt stops.
- Do not exceed 4000 rpm.

- Avoid driving at any one constant speed, fast or slow, including the use of cruise control.
- Avoid downshifting to brake or slow the vehicle when the engine speed will exceed 4000 rpm.
- Do not let the engine labor. Never lug the engine. With a manual transmission, shift to the next lower gear. This rule applies at all times, not just during the break-in period.
- If equipped with a dry sump engine (Stingray with Z51, Grand Sport, and Z06), the initial oil and filter change must be performed at 800 km (500 mi).

For the first 2 414 km (1,500 mi):

- Do not participate in track events, sport driving schools, or similar activities.
- Check engine oil with every refueling and add if necessary. Oil and fuel consumption may be higher than normal.

Front Air Dam

If equipped, the front air dam has minimal ground clearance.

Under normal operation, the components will occasionally contact some road surfaces (speed bumps, driveway ramps, etc.). This can be heard inside the vehicle as a scraping noise. This is normal and does not indicate a problem.

Use care when approaching bumps or objects on road surfaces and avoid them when possible.

Composite Materials

This vehicle may be equipped with parts containing carbon fiber, sheet-molding compound, or other composite materials.

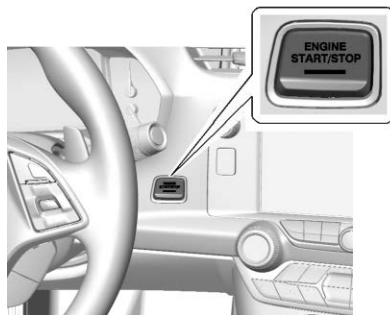
Dealer-installed accessories may also contain composite materials. These parts and accessories may include the splitter or rocker extensions.

Warning

Exposed edges of parts containing carbon fiber and other composite materials can be sharp. Contact with these parts could result in injury. Use caution to avoid contacting these parts, including when washing the vehicle. If the parts are damaged, replace the parts promptly with replacements from your dealer.

Warning

Rocker extensions may break under pressure, resulting in property damage or injury. Do not stand on the rocker extension or use it as a step.

Ignition Positions

The vehicle has an electronic keyless ignition with pushbutton start.

The Remote Keyless Entry (RKE) transmitter must be in the vehicle for the system to operate. If the pushbutton start is not working, the vehicle may be near a strong radio antenna signal causing interference to the Keyless Access system. See *Remote Keyless Entry (RKE) System Operation* ⇨ 27.

To shift out of P (Park), the vehicle must be turned on and the brake pedal must be applied.

Stopping the Engine/OFF (No Indicator Lights) : When the vehicle is stopped, press ENGINE START/STOP once to turn the engine off.

If the vehicle is in P (Park), the ignition will turn off, and Retained Accessory Power (RAP) will remain active. See *Retained Accessory Power (RAP)* ⇨ 183.

Automatic Transmission

If the vehicle is not in P (Park), the ignition will return to ACC/ACCESSORY and display a message in the Driver Information Center (DIC). When the vehicle is shifted into P (Park), the ignition will turn off.

Manual Transmission

If the vehicle is stationary, the ignition will turn off, and Retained Accessory Power (RAP) will remain active. See *Retained Accessory Power (RAP)* ⇨ 183.

Do not turn the engine off when the vehicle is moving. This will cause a loss of power assist in the brake and steering systems and disable the airbags.

If the vehicle must be shut off in an emergency:

1. Brake using a firm and steady pressure. Do not pump the brakes repeatedly. This may deplete power assist, requiring increased brake pedal force.
2. Shift the vehicle to N (Neutral). This can be done while the vehicle is moving. After shifting to N (Neutral), firmly apply the brakes and steer the vehicle to a safe location.
3. Come to a complete stop. Shift to P (Park) with an automatic transmission, or Neutral with a manual transmission. Turn the ignition off.
4. Set the parking brake. See *Electric Parking Brake* ⇨ 195.

Warning

Turning off the vehicle while moving may cause loss of power assist in the brake and steering systems and disable the airbags. While driving, only shut the vehicle off in an emergency.

If the vehicle cannot be pulled over, and must be shut off while driving, press and hold ENGINE START/STOP for longer than two seconds, or press twice within five seconds.

ACC/ACCESSORY (Amber Indicator Light) : This mode allows the use of some electrical accessories when the engine is off.

With the ignition off, pressing the button one time without the brake pedal applied will place the ignition system in ACC/ACCESSORY.

The ignition will switch from ACC/ACCESSORY to off after five minutes to prevent battery rundown.

ON/RUN/START (Green Indicator Light) : This mode is for driving and starting. With the ignition off, and the brake pedal applied, pressing the button once will place the ignition system in ON/RUN/START. Once engine cranking begins, release the button. Engine cranking will continue until the engine starts. See *Starting the Engine* ⇨ 182. The ignition will then remain in ON/RUN.

Service Mode

This power mode is available for service and diagnostics, and to verify the proper operation of the malfunction indicator lamp as may be required for emission inspection purposes. With the vehicle off, and the brake pedal not applied, pressing and holding ENGINE START/STOP for more than five seconds will place the vehicle in Service Mode. The instruments and audio systems will operate as they do in ON/RUN, but the vehicle will not be able to be driven. The engine will not start in Service Mode. Press ENGINE START/STOP again to turn the vehicle off.

Starting the Engine

Place the transmission in the proper gear.

Caution

If you add electrical parts or accessories, you could change the way the engine operates. Any resulting damage would not be covered by the vehicle warranty. See *Add-On Electrical Equipment* ⇨ 216.

Automatic Transmission

Move the shift lever to P (Park) or N (Neutral). To restart the vehicle when it is already moving, use N (Neutral) only.

Caution

Do not try to shift to P (Park) if the vehicle is moving. If you do, you could damage the transmission. Shift to P (Park) only when the vehicle is stopped.

Manual Transmission

The shift lever should be in Neutral and the parking brake engaged. Hold the clutch pedal down to the floor, press the brake pedal, and start the engine.

Starting the Vehicle

The RKE transmitter must be inside the vehicle for the ignition to work.

Cell phone chargers can interfere with the operation of the Keyless Access system. Battery chargers should not be plugged in when starting or turning off the engine.

1. For vehicles with an automatic transmission, press the brake pedal, then press ENGINE START/STOP on the instrument panel. For vehicles with a manual transmission, hold the clutch pedal down to the floor, press the brake pedal and then press ENGINE START/STOP.

If there is no RKE transmitter in the vehicle or if there is something causing interference

with it, the Driver Information Center (DIC) will display a message.

2. When the engine begins cranking, let go of the button and the engine cranks automatically until it starts.

If the battery in the RKE transmitter is weak, the DIC will display a message. The vehicle can still be driven.

See "Starting the Vehicle with a Low Transmitter Battery" under *Remote Keyless Entry (RKE) System Operation* ⇨ 27. If the RKE transmitter battery is dead, insert it into the steering column transmitter pocket to enable engine starting.

3. Do not race the engine immediately after starting it. Operate the engine and transmission gently until the oil warms up and lubricates all moving parts.

4. If the engine does not start and no DIC message is displayed, wait 15 seconds before trying again to let the cranking motor cool down.

If the engine does not start after five to 10 seconds, especially in very cold weather (below -18°C or 0°F), it could be flooded with too much gasoline. Try pushing the accelerator pedal all the way to the floor while cranking for up to 15 seconds maximum. Wait at least 15 seconds between each try, to allow the cranking motor to cool down. When the engine starts, let go of the accelerator. If the vehicle starts briefly but then stops again, repeat these steps. This clears the extra gasoline from the engine.

Caution

Cranking the engine for long periods of time, by returning the ignition to the START position immediately after cranking has ended, can overheat and damage the cranking motor, and drain the battery. Wait at least 15 seconds between each try, to let the cranking motor cool down.

Stopping the Engine

If the vehicle has an automatic transmission, move the shift lever to P (Park) and press and hold ENGINE START/STOP on the instrument panel, until the engine shuts off. If the shift lever is not in P (Park), the engine shuts off and the vehicle goes into the accessory mode. The DIC displays SHIFT TO PARK. Once the shift lever is moved to P (Park), the vehicle turns off. If the vehicle has a manual transmission, move the shift lever to R (Reverse) and set the parking

brake after turning off the engine by pressing and holding ENGINE START/STOP.

If the RKE transmitter is not detected inside the vehicle when it is turned off, the DIC displays a message.

Retained Accessory Power (RAP)

Some vehicle accessories may be used after the ignition is turned off.

The power windows and sunroof, if equipped, will continue to work for up to 10 minutes or until any door is opened.

The infotainment system will continue to work for 10 minutes, until the driver door is opened, or until the ignition is turned on or placed in ACC/ACCESSORY.

Shifting Into Park

1. Hold the brake pedal down and set the parking brake. See *Electric Parking Brake* ⇨ 195.
2. Move the shift lever into P (Park) by holding the button on the lever and pushing the lever all the way toward the front of the vehicle.
3. Press ENGINE START/STOP to turn the engine off.

Leaving the Vehicle with the Engine Running (Automatic Transmission)**Warning**

It can be dangerous to leave the vehicle with the engine running. It could overheat and catch fire.

It is dangerous to get out of the vehicle if the shift lever is not fully in P (Park) with the parking brake firmly set. The vehicle can roll.

(Continued)

Warning (Continued)

Do not leave the vehicle when the engine is running. If you have left the engine running, the vehicle can move suddenly. You or others could be injured. To be sure the vehicle will not move, even when you are on fairly level ground, always set the parking brake and move the shift lever to P (Park). See *Shifting Into Park* ⇨ 184.

If you have to leave the vehicle with the engine running, be sure the vehicle is in P (Park) and the parking brake is firmly set before you leave it. After moving the shift lever into P (Park), hold down the regular brake pedal. See if you can move the shift lever away from P (Park) without first pushing the button on the lever. If you can, it means that the shift lever was not fully locked into P (Park).

Torque Lock (Automatic Transmission)

If you are parking on a hill and you do not shift the transmission into P (Park) properly, the weight of the vehicle may put too much force on the parking pawl in the transmission. You may find it difficult to pull the shift lever out of P (Park). This is called “torque lock.” To prevent torque lock, set the parking brake and then shift into P (Park) properly before leaving the driver seat. To find out how, see “Shifting Into P (Park)” previously in this section.

When you are ready to drive, move the shift lever out of P (Park) before releasing the parking brake.

If torque lock does occur, you may need to have another vehicle push yours a little uphill to take some of the pressure from the transmission parking pawl, so you can pull the shift lever out of P (Park).

Shifting out of Park

This vehicle is equipped with an electronic shift lock control system. The shift lock release is designed to prevent movement of the shift lever out of P (Park), unless the ignition is on and the brake pedal is applied.

The shift lock release is always functional except in the case of an uncharged or low voltage (less than 9-volt) battery. See *Jump Starting - North America* ⇨ 295.

To shift out of P (Park):

1. Apply the brake pedal.
2. Release the parking brake. See *Electric Parking Brake* ⇨ 195.
3. Press the shift lever button.
4. Move the shift lever to the desired position.

If you still are unable to shift out of P (Park):

1. Fully release the shift lever button, and let go of the shift lever.

2. While holding down the brake pedal, press the shift lever button again.
3. Move the shift lever to the desired position.

If you still cannot move the shift lever from P (Park), consult your dealer or a professional towing service.

Parking (Manual Transmission)

Warning

If the vehicle has a manual transmission, never get out of the vehicle without first moving the shift lever into 1st or R (Reverse), setting the parking brake and turning the ignition off. The vehicle can roll, which could cause serious injury or death.

Parking over Things That Burn

Warning

Things that can burn could touch hot exhaust parts under the vehicle and ignite. Do not park over papers, leaves, dry grass, or other things that can burn.

Active Fuel Management (Except ZR1/LT5)

This system allows the engine to operate on either all or half of its cylinders, depending on the driving conditions. With a manual transmission, the system is only active in Eco Mode. With an automatic transmission, the system is available in all modes, but is more aggressive in Eco Mode. See *Driver Mode Control* ⇨ 200.

When less power is required, such as cruising at a constant vehicle speed, the system will operate in the half cylinder mode, allowing the

vehicle to achieve better fuel economy. When greater power demands are required, such as accelerating from a stop, passing, or merging onto a freeway, the system will maintain full-cylinder operation.

Extended Parking

It is best not to park with the vehicle running. If the vehicle is left running, be sure it will not move and there is adequate ventilation.

See *Shifting Into Park* ⇨ 184 and *Engine Exhaust* ⇨ 186.

If the vehicle is left parked and running with the Remote Keyless Entry (RKE) transmitter outside the vehicle, it will continue to run for up to half an hour.

If the vehicle is left parked and running with the RKE transmitter inside the vehicle, it will continue to run for up to an hour.

The vehicle could turn off sooner if it is parked on a hill, due to lack of available fuel.

Automatic Transmission

The timer will reset if the vehicle is taken out of P (Park) while it is running.

Manual Transmission

The timer will reset if vehicle speed exceeds 4 km/h (2.5 mph).

Engine Exhaust



Warning

Engine exhaust contains carbon monoxide (CO), which cannot be seen or smelled. Exposure to CO can cause unconsciousness and even death.

Exhaust may enter the vehicle if:

- The vehicle idles in areas with poor ventilation (parking garages, tunnels, deep snow that may block underbody airflow or tail pipes).
- The exhaust smells or sounds strange or different.
- The exhaust system leaks due to corrosion or damage.
- The vehicle exhaust system has been modified, damaged, or improperly repaired.

(Continued)

Warning (Continued)

- There are holes or openings in the vehicle body from damage or aftermarket modifications that are not completely sealed.

If unusual fumes are detected or if it is suspected that exhaust is coming into the vehicle:

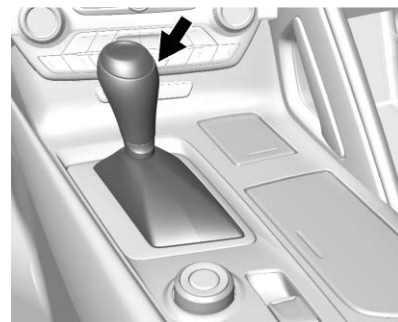
- Drive it only with the windows completely down.
- Have the vehicle repaired immediately.

Never park the vehicle with the engine running in an enclosed area such as a garage or a building that has no fresh air ventilation.

Running the Vehicle While Parked

It is better not to park with the engine running.

If the vehicle is left with the engine running, follow the proper steps to be sure the vehicle will not move. See *Shifting Into Park* ⇨ 184 and *Engine Exhaust* ⇨ 186. If the vehicle has a manual transmission, see *Parking (Manual Transmission)* ⇨ 185.

Automatic Transmission

There are several different positions for the shift lever.

P : This position locks the drive wheels. Use P (Park) when starting the engine because the vehicle cannot move easily.

 Warning

It is dangerous to get out of the vehicle if the shift lever is not fully in P (Park) with the parking brake firmly set. The vehicle can roll.

Do not leave the vehicle when the engine is running. If you have left the engine running, the vehicle can move suddenly. You or others could be injured. To be sure the vehicle will not move, even when you are on fairly level ground, always set the parking brake and move the shift lever to P (Park). See *Shifting Into Park* ⇨ 184.

Be sure the shift lever is in P (Park) before starting the engine.

The vehicle has an automatic transmission shift lock control system. Fully apply the brakes and then press the shift lever button before shifting from P (Park) when the vehicle is running. If the vehicle cannot be shifted out of P (Park), ease pressure on the shift lever and

push the shift lever all the way into P (Park) as brake application is maintained. Then press the shift lever button and move the shift lever into another gear. See *Shifting out of Park* ⇨ 185.

R : Use this gear to back up.

Caution

Shifting to R (Reverse) while the vehicle is moving forward could damage the transmission. The repairs would not be covered by the vehicle warranty. Shift to R (Reverse) only after the vehicle is stopped.

To rock the vehicle back and forth to get out of snow, ice, or sand without damaging the transmission, see *If the Vehicle Is Stuck* ⇨ 175.

N : In this position, the engine does not connect with the wheels. To restart the engine when the vehicle is already moving, use N (Neutral) only.

 Warning

Shifting into a drive gear while the engine is running at high speed is dangerous. Unless your foot is firmly on the brake pedal, the vehicle could move very rapidly. You could lose control and hit people or objects. Do not shift into a drive gear while the engine is running at high speed.

Caution

Shifting out of P (Park) or N (Neutral) with the engine running at high speed may damage the transmission. The repairs would not be covered by the vehicle warranty. Be sure the engine is not running at high speed when shifting the vehicle.

D : This position is for normal driving. If more power is needed for passing, press the accelerator pedal down.

Downshifting the transmission in slippery road conditions could result in skidding. See “Skidding” under *Loss of Control* ⇨ 161.

The transmission can be shifted like a manual transmission using the paddle shift controls while in D (Drive). See *Manual Mode* ⇨ 189.

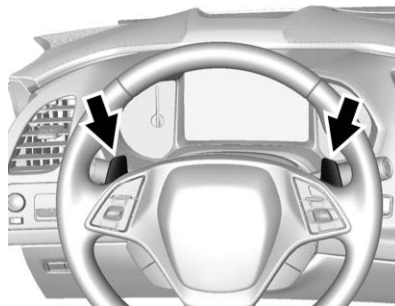
Caution

A transmission hot message may display if the automatic transmission fluid is too hot. Driving under this condition can damage the vehicle. Stop and idle the engine to cool the automatic transmission fluid. This message clears when the transmission fluid has cooled sufficiently.

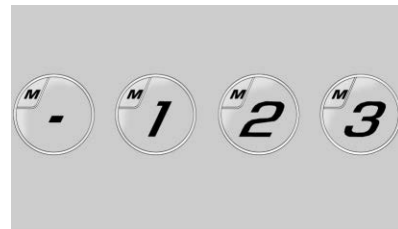
M : In M (Manual Mode), the transmission can be shifted like a manual transmission using the paddle shift controls. See *Manual Mode* ⇨ 189.

Manual Mode

Manual Paddle Shift (Automatic Transmission)



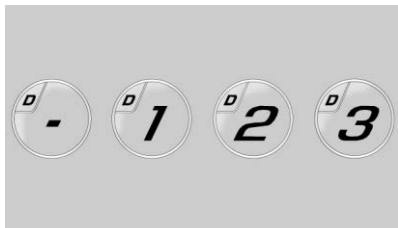
When the shift lever is moved to M (Manual Mode), the transmission enters Manual Mode. The transmission will hold the current gear until a change is requested. The paddles on the steering wheel can be used to manually upshift or downshift the transmission. The right (+) plus paddle upshifts, and the left (–) minus paddle downshifts.



When using the Manual Paddle Shift feature while in M (Manual Mode), the current gear will be displayed in the instrument cluster or the Head-Up Display (HUD), if equipped. See *Head-Up Display (HUD)* ⇨ 123.

When accelerating the vehicle from a stop in snowy and icy conditions, shifting to 2 (Second) gear allows the vehicle to gain more traction.

The Manual Paddle Shift system can be deactivated by moving the shift lever from M (Manual Mode) back to D (Drive).



When the shift lever is in D (Drive), press either the right (+) plus paddle or the left (-) minus paddle to place the transmission in Temporary Manual Paddle Shift mode. The gear indicator next to the shift lever, in the cluster, and in the HUD will display an M, even though the shift lever is still in D (Drive). To exit the system, hold the (+) plus paddle for more than one second. The system will return to automatic shifting after six seconds of cruising at a steady speed, no manual shifts, no aggressive cornering, or when the vehicle comes to a stop.

While the Manual Paddle Shift gear selection system is active, the transmission will automatically downshift through the gears as the

vehicle slows. The transmission will select 1 (First) gear as the vehicle stops. From a stop, the vehicle will start from and hold 1 (First) gear unless the manual paddle shifts are used to shift into a different gear, or D (Drive) is selected.

If the left (-) minus paddle is held down briefly, the transmission will downshift to the lowest gear possible for the vehicle speed. If the paddle continues to be held as the vehicle slows, downshifts will continue to occur as vehicle speed allows. This feature also works while in Temporary Manual Paddle Shift mode, but first press and release the (-) minus paddle to enter Temporary Manual Paddle Shift mode, then press and hold the (-) minus paddle briefly.

The Manual Paddle Shift system will not allow an upshift or a downshift if the vehicle speed is too fast or too slow, nor will it allow a start from 3 (Third) or higher gear.

If upshifting does not occur when needed, vehicle speed will be limited to protect the engine.

When a requested shift is denied due to the speed restrictions shown, a DIC message will be displayed, and the current gear remains displayed in the instrument cluster and HUD.

Manual Paddle Shift operation is available for use with cruise control. See *Cruise Control* ⇨ 207.

The vehicle speeds required for Manual Paddle Shift upshifts depend on several vehicle inputs, which will vary the allowed upshift speed by a few km/h (mph).

For Vehicles with a 2.41:1 Axle Ratio (RPO GXB)

- Upshifts to 3 (Third) gear require approximately 25 km/h (16 mph).
- Upshifts to 4 (Fourth) gear require approximately 37 km/h (23 mph).
- Upshifts to 5 (Fifth) gear require approximately 48 km/h (30 mph).
- Upshifts to 6 (Sixth) gear require approximately 60 km/h (37 mph).

- Upshifts to 7 (Seventh) gear require approximately 74 km/h (46 mph).
- Upshifts to 8 (Eighth) gear require approximately 95 km/h (59 mph).

To prevent damage to the powertrain, Manual Paddle downshifts to a lower gear cannot be done above certain speeds. The maximum speed allowed for downshifting of gears 1 (First) through 7 (Seventh) are:

- Into 7 (Seventh) gear over 365 km/h (227 mph).
- Into 6 (Sixth) gear over 309 km/h (192 mph).
- Into 5 (Fifth) gear over 243 km/h (151 mph).
- Into 4 (Fourth) gear over 183 km/h (114 mph).
- Into 3 (Third) gear over 149 km/h (93 mph).

- Into 2 (Second) gear over 100 km/h (62 mph).
- Into 1 (First) gear over 62 km/h (39 mph).

For Vehicles with a 2.73:1 Axle Ratio (RPO GU2)

- Upshifts to 3 (Third) gear require approximately 24 km/h (15 mph).
- Upshifts to 4 (Fourth) gear require approximately 34 km/h (21 mph).
- Upshifts to 5 (Fifth) gear require approximately 43 km/h (27 mph).
- Upshifts to 6 (Sixth) gear require approximately 55 km/h (34 mph).
- Upshifts to 7 (Seventh) gear require approximately 64 km/h (40 mph).
- Upshifts to 8 (Eighth) gear require approximately 82 km/h (51 mph).

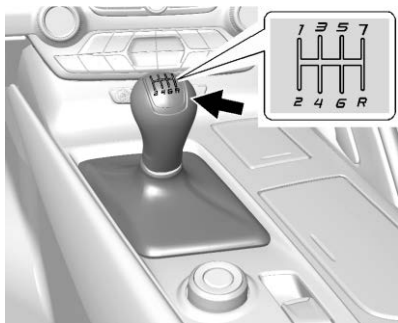
To prevent damage to the powertrain, Manual Paddle downshifts to a lower gear cannot be done above certain speeds. The

maximum speed allowed for downshifting of gears 1 (First) through 7 (Seventh) are:

- Into 7 (Seventh) gear over 321 km/h (199 mph).
- Into 6 (Sixth) gear over 272 km/h (169 mph).
- Into 5 (Fifth) gear over 214 km/h (133 mph).
- Into 4 (Fourth) gear over 161 km/h (100 mph).
- Into 3 (Third) gear over 131 km/h (93 mph).
- Into 2 (Second) gear over 88 km/h (62 mph).
- Into 1 (First) gear over 55 km/h (39 mph).

If an upshift is not requested as the engine speed approaches fuel shutoff rpm, the engine speed will be limited to protect the engine. See *Tachometer* ⇨ 108.

Manual Transmission



To operate:

1 : Press the clutch pedal and shift into 1 (First). Then slowly let up on the clutch pedal as the accelerator pedal is pressed.

This can be done if the vehicle is going less than 64 km/h (40 mph). If the vehicle is at a complete stop and it is hard to shift into 1 (First), put the shift lever in Neutral and let up on the clutch. Then press the clutch pedal back down and shift into 1 (First).

2 : Press the clutch pedal while letting up on the accelerator pedal and shift into 2 (Second). Then, slowly let up on the clutch pedal as the accelerator pedal is pressed.

3, 4, 5, 6, and 7 : Shift into 3 (Third), 4 (Fourth), 5 (Fifth), 6 (Sixth), and 7 (Seventh) the same way as for 2 (Second).

To stop, let up on the accelerator pedal and press the brake pedal. Just before the vehicle stops, press the clutch pedal and the brake pedal, and shift to Neutral.

Neutral : Use to start or idle the engine. Neutral is the center position of the shift pattern.

R : To back up, push the clutch pedal and shift into R (Reverse). Additional pressure may be needed to move the lever past 5 (Fifth) and 6 (Sixth) into R (Reverse). Let up on the clutch pedal slowly while pressing the accelerator pedal.

The vehicle can be safely shifted into R (Reverse) while the vehicle is moving less than 5 km/h (3 mph). If the vehicle is going faster than that, R (Reverse) is locked out.

Caution

A transmission hot message may display if the manual transmission fluid is too hot. Driving at high speed under this condition can damage the vehicle. Drive at a slower speed, or stop and idle the engine to cool the manual transmission fluid. The message clears when the vehicle has slowed and the transmission fluid has cooled sufficiently.

Shift Speeds

Use the following shift speeds, shown in km/h (mph), for the best fuel economy.

1 to 4	27 (17)
4 to 5	40 (25)
5 to 6	64 (40)
6 to 7	72 (45)

Caution

When shifting gears, do not move the shift lever around unnecessarily. This may damage the transmission. Shift directly into the next gear.

1–4 Shift Message (LT5 and ZR1)

When the DIC displays this message, the vehicle can only be shifted from 1 (First) to 4 (Fourth).

Downshifting

Do not downshift into the gear at a speed greater than shown:

1 (First)	72 km/h (45 mph)
2 (Second)	107 km/h (67 mph)
3 (Third)	160 km/h (100 mph)
4 (Fourth)	233 km/h (145 mph)

Caution

When downshifting, if more than one gear is skipped, or the engine is racing when the clutch pedal is released, the engine, clutch, driveshaft or transmission could be damaged.

If the engine speed drops below 900 rpm, or if the engine is not running smoothly, downshift to the next lower gear. It may be necessary to downshift two or more gears.

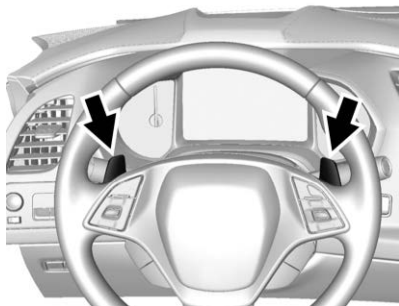
The transmission has a spring that centers the shift lever near 3 (Third) and 4 (Fourth). This spring helps to know what gear the shift lever is in when shifting. Be careful when shifting from 1 (First) to 2 (Second) or downshifting from 7 (Seventh) to 6 (Sixth). The spring will try to pull the shift lever toward 4 (Fourth) and 3 (Third). Move the lever into 2 (Second) or 6 (Sixth) and do not let the shift lever move in the direction of the pulling, or it could shift from 1 (First) to 4 (Fourth) or from 7 (Seventh) to 4 (Fourth).

If the vehicle is not upshifted as the engine speed approaches fuel shutoff rpm, the engine speed will be limited to protect the engine. See *Tachometer* ⇨ 108.

Active Rev Match

Vehicles equipped with a manual transmission have Active Rev Match (ARM). ARM aids in smoother shifting by matching the engine speed to the next selected gear. By monitoring shift lever and clutch operation, ARM adjusts engine

speed to match a calibrated value based on gear selection. On upshifts and downshifts, engine speed will be increased and decreased to match vehicle road speed and transmission gear position. ARM is maintained while the clutch pedal is pressed, but will deactivate if the shift lever is left in N (Neutral).



The system is activated and deactivated by pressing either of the paddles marked REV MATCH on the steering wheel. The system

must be activated with each new ignition cycle. The system is normally off.



A gear indicator in the instrument cluster displays the current gear selected:

- When ARM is activated, the gear number is amber.
- When ARM is deactivated, the gear number is white.
- A white dash indicates that service is required. ARM will be disabled, and the malfunction indicator lamp will be on. See *Malfunction Indicator Lamp (Check Engine Light)* ⇨ 113. The clutch and manual transmission will continue to operate normally.

ARM will also:

- Be active above 25 km/h (16 mph).
- Match engine speed up to 5400 rpm.
- Not operate when the accelerator pedal is applied.
- Be disabled when the coolant temperature is below 0 °C (32 °F).

Brakes

Antilock Brake System (ABS)

This vehicle has an Antilock Brake System (ABS), an advanced electronic braking system that helps prevent a braking skid.

When the vehicle begins to drive away, ABS checks itself. A momentary motor or clicking noise may be heard while this test is going on, and it may even be noticed that the brake pedal moves a little. This is normal.



If there is a problem with ABS, this warning light stays on. See *Antilock Brake System (ABS) Warning Light* ⇨ 117.

If driving safely on a wet road and it becomes necessary to slam on the brakes and continue braking to avoid a sudden obstacle, a computer senses the wheels are slowing down. If one of the wheels is about to stop rolling, the computer will separately work the brakes at each wheel.

ABS can change the brake pressure to each wheel, as required, faster than any driver could. This can help you steer around the obstacle while braking hard.

As the brakes are applied, the computer keeps receiving updates on wheel speed and controls braking pressure accordingly.

Remember: ABS does not change the time needed to get a foot up to the brake pedal or always decrease stopping distance. If you get too close to the vehicle in front of you, there will not be enough time to apply the brakes if that vehicle suddenly slows or stops. Always leave enough room up ahead to stop, even with ABS.

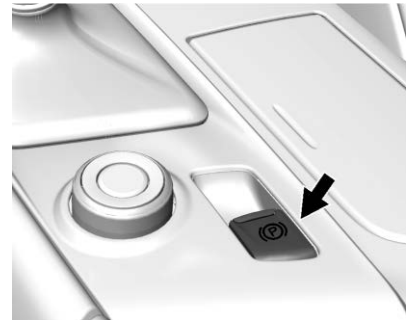
Using ABS

Do not pump the brakes. Just hold the brake pedal down firmly and let ABS work. You may hear the ABS pump or motor operating and feel the brake pedal pulsate. This is normal.

Braking in Emergencies

ABS allows you to steer and brake at the same time. In many emergencies, steering can help more than even the very best braking.

Electric Parking Brake



The vehicle has an Electric Parking Brake (EPB). The EPB can always be activated, even if the ignition is off. To prevent draining the battery, avoid repeated cycles of the EPB system when the engine is not running.

The system has a (P) or PARK Electric Parking Brake light, and a Ⓟ Service Parking Brake light. See *Electric Parking Brake Light* ⇨ 116 and *Service Electric Parking Brake Light* ⇨ 116.

Before leaving the vehicle, check for the (P) or PARK light to ensure that the EPB is applied.

EPB Apply

To apply the EPB:

1. Be sure the vehicle is at a complete stop.
2. Lift up the EPB switch momentarily.

The (P) or PARK light will flash and then stay on once the EPB is fully applied. If the (P) or PARK light

flashes continuously, then the EPB is only partially applied or there is a problem with the EPB. A Driver Information Center (DIC) message will display. Release the EPB and try to apply it again. If the light does not come on, or keeps flashing, have the vehicle serviced. Do not drive the vehicle if the (P) or PARK light is flashing. See your dealer. See *Electric Parking Brake Light* ⇨ 116.

If the Ⓟ light is on, press the EPB switch and hold it. Continue to hold the switch until the (P) or PARK light remains on. If the Ⓟ light remains on, see your dealer.

If the EPB is applied while the vehicle is moving, the vehicle will decelerate as long as the switch is pressed. If the switch is pressed until the vehicle comes to a stop, the EPB will remain applied.

The vehicle may automatically apply the EPB in some situations when the vehicle is not moving. This is

normal, and is done to periodically check the correct operation of the EPB system.

If the EPB fails to apply, block the rear wheels to prevent vehicle movement.

EPB Release

To release the EPB:

1. Turn the ignition on or to ACC/ACCESSORY.
2. Apply and hold the brake pedal.
3. Press the EPB switch momentarily.

The EPB is released when the (P) or PARK light is off.

If the Ⓟ light is on, release the EPB by pressing and holding the EPB switch. Continue to hold the switch until the (P) or PARK light is off. If either light stays on after release is attempted, see your dealer.

Caution

Driving with the parking brake on can overheat the brake system and cause premature wear or damage to brake system parts. Make sure that the parking brake is fully released and the brake warning light is off before driving.

Automatic EPB Release

The EPB will automatically release if the vehicle is running, placed into gear, and an attempt is made to drive away. Avoid rapid acceleration when the EPB is applied, to preserve parking brake lining life.

The EPB can also be used to prevent roll back for vehicles with a manual transmission taking off on a hill. When no roll back is desired, an applied EPB will allow both feet to be used for the clutch and accelerator pedals in preparation for starting the vehicle moving in the intended direction. In this case, there is no need to press the switch to release the EPB.

Brake Assist

The Brake Assist feature is designed to assist the driver in stopping or decreasing vehicle speed in emergency driving conditions. This feature uses the stability system hydraulic brake control module to supplement the power brake system under conditions where the driver has quickly and forcefully applied the brake pedal in an attempt to quickly stop or slow down the vehicle. The stability system hydraulic brake control module increases brake pressure at each corner of the vehicle until the ABS activates. Minor brake pedal pulsation or pedal movement during this time is normal and the driver should continue to apply the brake pedal as the driving situation dictates. The Brake Assist feature will automatically disengage when the brake pedal is released or brake pedal pressure is quickly decreased.

Hill Start Assist (HSA)

If equipped, Hill Start Assist (HSA) may automatically activate when the vehicle is stopped on a grade. This feature is designed to prevent the vehicle from rolling, either forward or rearward, during vehicle drive off. During the transition from releasing the brake pedal to accelerating to drive off on a grade, HSA holds the braking pressure to prevent rolling. HSA will not activate if the vehicle is in a drive gear and facing downhill or if the vehicle is facing uphill and in R (Reverse).

Ride Control Systems

Traction Control/ Electronic Stability Control

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

TCS activates if it senses that the rear wheels are spinning too much or are beginning to lose traction. When this happens, TCS applies the brakes to the spinning wheel and reduces engine power (by closing the throttle and managing engine spark) to limit wheel spin.

StabiliTrak/ESC activates when the vehicle senses a difference between the intended path and the direction the vehicle is actually traveling. StabiliTrak/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 when TCS begins to limit wheel spin, the cruise control will automatically disengage. Cruise control may be reengaged when road conditions allow. See *Cruise Control* ⇨ 207.

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* ⇨ 175 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 StabiliTrak/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/StabiliTrak/ESC button is on the center console.

Caution

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

To turn off only TCS, press and release . The Traction Off light  illuminates in the instrument cluster. To turn TCS on again, press and release . The Traction Off light  displayed in the instrument cluster will turn off.

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

To turn off both TCS and StabiliTrak/ESC, press and hold  until the Traction Off light  and StabiliTrak/ESC OFF light  illuminate and stay on in the instrument cluster.

To turn TCS and StabiliTrak/ESC on again, press and release . The Traction Off light  and StabiliTrak/ESC OFF light  in the instrument cluster turn off.

If the Tire Pressure Monitor System (TPMS) system is malfunctioning and the DIC displays SERVICE TIRE MONITOR SYSTEM, StabiliTrak/ESC will be affected as follows:

- StabiliTrak/ESC cannot be turned off by the driver.
- If StabiliTrak/ESC is off, it will be turned on automatically.
- Competitive Driving Mode or Performance Traction Management is unavailable.
- StabiliTrak/ESC will feel different in aiding and maintaining directional control.

Adding accessories can affect the vehicle performance. See *Accessories and Modifications*  220.

Driver Mode Control



The Driver Mode Selector knob is on the console behind the shift lever.

If equipped, there are five modes for different driving conditions: Weather (except ZR1), Eco (except ZR1), Tour, Sport, and Track.

The outer ring turns to change the modes, which display in the instrument cluster.

Press the button in the center of the knob for StabiliTrak/Electronic Stability Control (ESC) and Traction Control System (TCS), or if the vehicle is in Track Mode with Performance Traction Management (PTM). See *Traction Control/Electronic Stability Control* ⇨ 198 or the information on PTM in *Competitive Driving Mode* ⇨ 203.

When PTM is active, the outer ring will change the PTM mode and the Driver mode will display in the instrument cluster.

Each mode is configured for use in different driving conditions. Use:

- Weather Mode for rain and snow (except ZR1).
- Eco Mode to improve fuel economy (except ZR1).
- Tour Mode for comfortable normal driving.
- Sport Mode for spirited on road driving.
- Track Mode for track use.

There are 12 attributes that vary by mode shown below. Not all vehicles have all features, depending on the vehicle options.

Modes:	WEATHER <i>(except ZR1)</i>	ECO <i>(except ZR1)</i>	TOUR <i>Default</i>	SPORT	TRACK
Cluster Display	Tour	Tour	Tour	Sport	Track
Throttle Progression	Weather	Normal	Normal	Sport	Track
Trans Shift Mode (if equipped)	Normal	Normal	Normal	Sport	Track
Active Fuel Management	Normal	Eco	Normal	Normal	Normal
Exhaust Mode	Eco	Eco	Tour	Sport	Track
Steering	Comfort	Comfort	Comfort	Sport	Track
Stability Control	Normal	Normal	Normal	Comp Mode Avail	Comp Mode Avail
Electronic Limited Slip (if equipped)	Mode 1	Mode 1	Mode 1	Mode 2	Modes 2 & 3
Magnetic Ride (if equipped)	Tour	Tour	Tour	Sport	Track
Launch Control	NA	NA	NA	NA	Available
Traction Control	Weather	Normal	Normal	Normal	Track
Performance Traction or Competitive Driving Mode (if equipped)	Off	Off	Off	Off	Available

Driver Mode Selector Attributes Affected

Instrument Cluster Display

Configures the gauge cluster display for each mode when linked (default):

- Tour: Modern theme which features displays for audio and navigation.
- Sport: Classic easy to read Sports Car gauges.
- Track: Gauges design based on Corvette Racing display with lap timer.

Throttle Progression

Adjusts throttle sensitivity by selecting how quickly or slowly the throttle reacts to input.

For ZR1 automatics, some customers may hear a clicking noise or feel a detent when pressing the accelerator pedal all the way down to the end of travel. This is normal operation. The accelerator pedal has a wide open throttle detent button which provides the customer

with a tactile feedback when they have reached full accelerator pedal travel. Depressing the pedal through the detent button provides driver feedback of an upcoming vehicle downshift in normal driving conditions. The detent feedback window is reduced while operating in Performance Algorithm Liftfoot (PAL) or Performance Algorithm Shift (PAS).

Transmission Shift Mode – Paddle Shift Automatic

- Adjusts to either a smoother or firmer shift.
- Sport – Performance Algorithm Liftfoot (PAL) recognizes aggressive throttle maneuvers and holds lower gears for greater engine braking and enhanced vehicle control when not using paddles. (Available in Sport or Track Mode.)
- Track – Performance Algorithm Shift (PAS) recognizes aggressive cornering, heavy

braking, and high acceleration to select and hold lower gears when not using paddles.

Active Fuel Management (except ZR1) (engine cylinder shuts off) 4-Cylinder Mode

- Normal with automatic transmission: The engine uses 8-cylinder mode when accelerating, but changes to 4-cylinder mode when coasting.
- With manual transmission: Active Fuel Management only active in Eco Mode.
- Off in Manual Mode with automatic transmission unless in Eco Mode.
- Eco keeps the engine in 4-cylinder mode unless heavy acceleration is needed.

Exhaust (variable mode exhaust system)

Changes when the variable exhaust valves open.

Steering (Assist Effort)

Adjusts from a lighter steering feel to reduced assist for more steering feel.

Magnetic Ride Control (if equipped)

Adjusts the shock dampening firmness based on driving conditions to improve comfort and performance.

Launch Control

Available only in Track Mode for maximum “off-the-line” acceleration when in Competitive or PTM modes.

Stability Control

- Competitive Driving Mode allows less computer control to permit some slide and drift and is selected with  – only available in Sport or Track Mode.
- StabiliTrak/ESC can be turned off by pressing and holding  for 10 seconds.

PTM (Performance Traction Management) (if equipped)

- Available in Track Mode.
- There are five selectable settings if Competitive Driving Mode is activated.

Competitive Driving Mode

If equipped, Competitive Driving Mode, Performance Traction Management, and Launch Control are systems designed to allow increased performance while accelerating and/or cornering. This is accomplished by regulating and optimizing the engine, brakes, and suspension performance. These modes are for use at a closed course race track and are not intended for use on public roads. They will not compensate for driver inexperience or lack of familiarity with the race track. Drivers who prefer to allow the system to have more control of the engine, brake, and suspension are advised to turn the normal Traction Control System (TCS) and StabiliTrak/Electronic Stability Control (ESC) system on.

Caution

Attempting to shift when the drive wheels are spinning and do not have traction may cause damage to the transmission. Damage caused by misuse of the vehicle is not covered by the vehicle warranty. Do not attempt to shift when the drive wheels do not have traction.

Competitive Driving Mode

Competitive Driving Mode allows full engine power while StabiliTrak helps maintain directional control of the vehicle by selective brake application. In this mode, TCS is off. Launch Control is available if in Track Mode. Adjust your driving style to account for the available engine power. See “Launch Control” later in this section.



These lights are on when the vehicle is in the Competitive Driving Mode.



In order to select this optional handling mode, the vehicle mode must be in Sport or Track Mode. In vehicles equipped with Performance Traction Management (PTM), the Competitive Driving Mode is only available in Sport Mode. In vehicles not equipped with PTM, the Competitive Driving Mode is available in Sport and Track Mode.

Then quickly press  on the center console two times. STABILITRAK/ESC COMPETITIVE MODE displays in the Driver Information Center (DIC).

When  is pressed again, the traction off light  and StabiliTrak/ESC OFF light  will go out.

Performance Traction Management (ZR1, Z06, Grand Sport, and Stingray with FE4)

Performance Traction Management (PTM) integrates the Traction Control, StabiliTrak/ESC, and Magnetic Ride Control systems to provide improved and consistent performance when cornering. The

amount of available engine power is based on the mode selected, track conditions, driver skill, and the radius of each corner.



This light is on when the vehicle is in the PTM mode.

To select this optional handling mode, the vehicle mode must be Track. Then quickly press the TCS/StabiliTrak/ESC  button on the center console two times. PERF TRAC 1 - WET ACTIVE HANDLING ON displays in the DIC.

To experience the performance benefit of this system, after entering a curve and at the point where normal acceleration occurs, fully push the accelerator pedal. The PTM system will modify the level of engine power for a smooth and consistent corner exit.



The PTM system contains five modes. These modes are selected by turning the Selective Ride Control/Performance Traction Management MODE SELECT knob on the center console. Scroll up or down through modes 1–5 by turning the MODE SELECT knob to the right or left.

The following is a DIC display description and the recommended usage of each mode:

PERF TRAC 1 – WET ACTIVE HANDLING ON

- Intended for all driver skill levels.

- Wet or damp conditions only — not intended for use in heavy rain or standing water.
- StabiliTrak/ESC is on and engine power is reduced based on conditions.

PERF TRAC 2 – DRY ACTIVE HANDLING ON

- For use by less experienced drivers or while learning a new track.
- Dry conditions only.
- StabiliTrak/ESC is on and engine power is slightly reduced.

PERF TRAC 3 – SPORT ACTIVE HANDLING ON

- For use by drivers who are familiar with the track.
- Dry conditions only.
- Requires more driving skill than mode 2.
- StabiliTrak/ESC is on and more engine power is available than in mode 2.

PERF TRAC 4 – SPORT ACTIVE HANDLING OFF

- For use by drivers who are familiar with the track.
- Dry conditions only.
- Requires more driving skill than modes 2 or 3.
- StabiliTrak/ESC is off and available engine power is the same as mode 3.

PERF TRAC 5 – RACE ACTIVE HANDLING OFF

- For use by experienced drivers who are familiar with the track.
- Dry conditions only.
- Requires more driving skill than in other modes.
- StabiliTrak/ESC is off and engine power is available for maximum cornering speed.

Press and release  to turn off PTM and return to the traction control and StabiliTrak/ESC systems. The traction off light  and StabiliTrak/

ESC OFF light  will go out.

Launch Control (Track Mode Only)

A Launch Control feature is available, within Competitive Driving Mode, on all vehicles to allow the driver to achieve high levels of vehicle acceleration in a straight line. Launch Control is a form of traction control that manages tire spin while launching the vehicle. This feature is intended for use during closed course race events where consistent zero to 60 and quarter mile times are desirable.

Launch Control is only available when the following criteria are met:

- Competitive Driving Mode is selected or any of the Performance Traction Management modes are selected. The TCS light comes on the instrument cluster and the appropriate DIC message displays.
- The vehicle is not moving.

- The steering wheel is pointing straight.

Manual Transmissions

- The clutch is pressed and the vehicle is in 1 (First) gear.
- The accelerator pedal is rapidly applied to wide open throttle.

The Launch Control feature will initially limit engine speed as the driver rapidly applies the accelerator pedal to wide open throttle. Allow the engine rpm to stabilize.

A smooth, quick release of the clutch, while maintaining the fully pressed accelerator pedal, will manage wheel slip. Complete shifts as described in *Manual Transmission* ⇨ 192.

Automatic Transmissions

- The brake pedal must be firmly pressed to the floor, equivalent to a panic brake event.
- The accelerator pedal is rapidly applied to wide open throttle. (If the vehicle rolls due to wide open throttle, release the throttle, press the brake pedal

more firmly, and re-apply the accelerator to wide open throttle.)

The Launch Control feature will initially limit engine speed as the driver rapidly applies the accelerator pedal to wide open throttle. Allow the engine rpm to stabilize.

A smooth, quick release of the brake pedal, while maintaining the fully pressed accelerator pedal, will manage wheel slip.

After the vehicle is launched, the system continues in Competitive Driving Mode or Performance Traction Management.

Competitive Driving Mode, PTM, and Launch Control are systems designed for a closed course race track and not intended for use on public roads. The systems are not intended to compensate for lack of driver experience or familiarity with the race track.

Limited-Slip Differential (Stingray without Z51 Only)

If equipped, the mechanical limited-slip differential can give more traction on snow, mud, ice, sand, or gravel. It works like a standard axle most of the time, but when traction is low, this feature allows the drive wheel with the most traction to move the vehicle. For vehicles with limited-slip differential, driven under severe conditions, the rear axle fluid should be changed. See *Competitive Driving Mode* ⇨ 203 and *Maintenance Schedule* ⇨ 312.

Limited-Slip Differential (ZR1, Z06, Grand Sport, and Stingray with Z51)

If equipped, the Electronic Limited-Slip Differential (eLSD) is automatically activated. eLSD actively monitors vehicle sensors and driver inputs to determine the amount of change for the conditions. With eLSD, the vehicle has:

- Enhanced high-speed control
- Improved traction through corners, allowing more acceleration
- More precise steering
- Increased vehicle agility
- Integration with StabiliTrak/ESC

For vehicles with eLSD, driven under severe conditions, the rear axle fluid should be changed. See *Competitive Driving Mode* ⇨ 203 and *Maintenance Schedule* ⇨ 312.

Cruise Control

With cruise control, a speed of about 40 km/h (25 mph) or more can be maintained without keeping your foot on the accelerator. Cruise control does not work at speeds below about 40 km/h (25 mph).

Warning

Cruise control can be dangerous where you cannot drive safely at a steady speed. Do not use cruise control on winding roads or in heavy traffic.

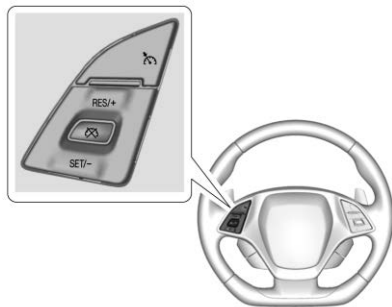
Cruise control can be dangerous on slippery roads. On such roads, fast changes in tire traction can cause excessive wheel slip, and you could lose control. Do not use cruise control on slippery roads.

If equipped with a manual transmission, the cruise control will remain active when the gears are shifted. The cruise is disengaged if the clutch is pressed for several seconds.

If the Traction Control System (TCS) begins to limit wheel spin while you are using cruise control, the cruise control automatically disengages. See *Traction Control/Electronic Stability Control* ⇨ 198. When road conditions allow for using safely again, cruise control can be turned back on.

If the brakes are applied, cruise control disengages.

Cruise control will disengage if either TCS or StabiliTrak/ESC is turned off.



 : Press to turn cruise control on or off. A white indicator comes on in the instrument cluster when cruise is turned on.

RES/+ : If there is a set speed in memory, press briefly to resume to that speed or press and hold to accelerate. If cruise control is already engaged, use to increase vehicle speed.

SET/- : Press briefly to set the speed and activate cruise control. If cruise control is already engaged, use to decrease vehicle speed.

 : Press to disengage cruise control without erasing the set speed from memory.

The speedometer reading can be displayed in either English or metric units. See *Instrument Cluster* ⇨ 103. The increment value used depends on the units displayed.

Setting Cruise Control

If  is on when not in use, SET/- or RES/+ could get pressed and go into cruise when not desired. Keep  off when cruise is not being used.

1. Press  to turn the cruise system on.
2. Get up to the desired speed.
3. Press and release SET/- on the steering wheel.
4. Remove foot from the accelerator.

The cruise control indicator on the instrument cluster turns green after cruise control has been set to the desired speed. See *Instrument Cluster* ⇨ 103.

Resuming a Set Speed

If the cruise control is set at a desired speed and then the brakes are applied or  is pressed, the cruise control is disengaged without erasing the set speed from memory.

Once the vehicle reaches about 40 km/h (25 mph) or more, briefly press RES/+. The vehicle returns to the previous set speed.

Increasing Speed While Using Cruise Control

Do one of the following:

- Press and hold RES/+ until the desired speed is reached, then release it.
- To increase vehicle speed in small increments, briefly press RES/+. For each press, the vehicle goes about 1.6 km/h (1 mph) faster.

Reducing Speed While Using Cruise Control

Do one of the following:

- Press and hold SET/- until the desired lower speed is reached, then release it.
- To decrease the vehicle speed in small increments, briefly press SET/-. For each press, the vehicle goes about 1.6 km/h (1 mph) slower.

Passing Another Vehicle While Using Cruise Control

Use the accelerator pedal to increase the vehicle speed. When you take your foot off the pedal, the vehicle will slow down to the previously set cruise speed.

While pressing the accelerator pedal or shortly following the release to override cruise control, briefly pressing SET/- will result in cruise set to the current vehicle speed.

Using Cruise Control on Hills

How well the cruise control works on hills depends upon the vehicle speed, load, and the steepness of the hills. When going up steep hills, you might have to step on the accelerator pedal to maintain your speed. When going downhill, you might have to brake or shift to a lower gear to keep your speed down. If the brake pedal is applied, cruise control will disengage.

Cruise Control in Manual Paddle Shift Gear Selection

When the vehicle is in M (Manual Mode) and the manual paddle shift controls are not being used, cruise control operates in the same manner as D (Drive).

When the vehicle is in M (Manual Mode) and the manual paddle shift controls are being used, cruise control operates as follows:

- If cruise control is active and a gear is selected with the manual paddle shift controls, the vehicle speed is maintained in the driver selected gear and will not automatically upshift or downshift the transmission while the driver's gear selection is active.
- If driving in hilly terrain, cruise control may not be able to maintain vehicle speed if an upshift or downshift is not selected by the driver. While driving on hilly terrain and cruise control is active with a manual paddle shift gear selection, the

driver must select the proper gear for the terrain or select D (Drive) on the shift lever for full automatic transmission operation.

Ending Cruise Control

- Step lightly on the brake pedal.
- Press the clutch pedal for several seconds or shift to Neutral (manual transmissions).
- Shift the transmission to N (Neutral) (automatic transmissions).
- Press .
- To turn off cruise control, press .

Erasing Speed Memory

The cruise control set speed is erased from memory if  is pressed or if the ignition is turned off.

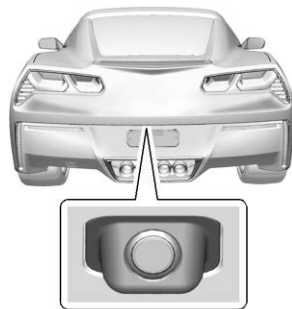
Driver Assistance Systems

Assistance Systems for Parking or Backing

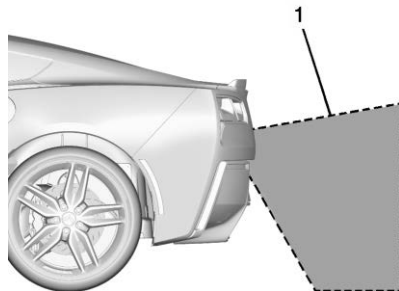
If equipped, the Rear Vision Camera (RVC) and Curb View Camera may help the driver park or avoid objects. Always check around the vehicle when parking or backing.

Rear Vision Camera (RVC)

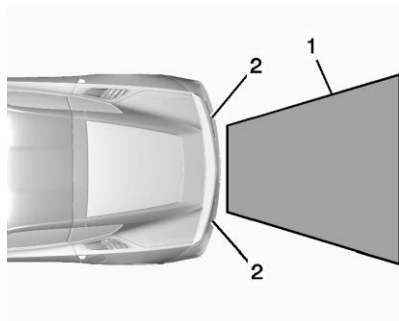
When the vehicle is shifted into R (Reverse), the RVC displays an image of the area behind the vehicle in the infotainment display. The previous screen displays when the vehicle is shifted out of R (Reverse) after a short delay. To return to the previous screen sooner, press any button on the infotainment system, shift into P (Park), or reach a vehicle speed of approximately 12 km/h (8 mph).



The camera is above the license plate.



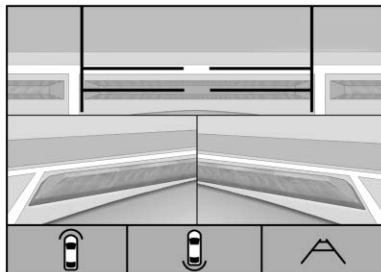
1. View displayed by the camera.



1. View displayed by the camera.
2. Corner of the rear bumper.

Displayed images may be farther or closer than they appear. The area displayed is limited and objects that are close to either corner of the bumper or under the bumper do not display.

Curb View Camera



If equipped, a view of the area in front of the vehicle displays in the infotainment display. The display shows a front, top down view at the top and left and right front camera images on the bottom.

The front view shows after shifting from R (Reverse) to a forward gear, or by pressing CAMERA in the center stack, and when the vehicle is moving forward slower than 8 km/h (5 mph).

The front cameras are on both sides of the front fascia.

Warning

The camera(s) do not display children, pedestrians, bicyclists, crossing traffic, animals, or any other object outside of the cameras' field of view, below the bumper, or under the vehicle. Shown distances may be different from actual distances. Do not drive or park the vehicle using only these camera(s). Always check behind and around the vehicle before driving. Failure to use proper care may result in injury, death, or vehicle damage.

Turning the Features On or Off

To turn the guidance lines on or off, select the guidance lines button on the infotainment display. On some models the guidance lines may be turned on or off through vehicle personalization.

When the System Does Not Seem to Work Properly

The RVC system may not work properly or display a clear image if:

- It is dark.
- The sun or the beam of headlamps is shining directly into the camera lens.
- Ice, snow, mud, or anything else builds up on the camera lens. Clean the lens, rinse it with water, and wipe it with a soft cloth.
- The back of the vehicle is in a crash. The position and mounting angle of the camera can change or the camera can be affected. Be sure to have the camera and its position and mounting angle checked at your dealer.

Fuel**Top Tier Fuel**

GM recommends the use of TOP TIER Detergent Gasoline to keep the engine clean, reduce engine deposits, and maintain optimal vehicle performance. Look for the TOP TIER Logo or see www.toptiergas.com for a list of TOP TIER Detergent Gasoline marketers and applicable countries.

**Recommended Fuel (LT1 6.2L V8 Engine)**

Do not use any fuel labeled E85 or FlexFuel. Do not use gasoline with ethanol levels greater than 15% by volume.

Premium unleaded gasoline meeting ASTM specification D4814 with a posted octane rating of 93 is highly recommended for best performance and fuel economy. Unleaded gasoline with an octane rated as low as 87 can be used. Using unleaded gasoline rated below 93 octane, however, will lead to reduced acceleration and fuel economy. If knocking occurs, use a gasoline rated at 93 octane as soon as possible, otherwise, the engine could be damaged. If heavy knocking is heard when using gasoline with a 93 octane rating, the engine needs service.

Recommended Fuel (LT4 and LT5 6.2L Supercharged V8 Engines)

Do not use any fuel labeled E85 or FlexFuel. Do not use gasoline with ethanol levels greater than 15% by volume.

Use premium unleaded gasoline meeting ASTM specification D4814 with a posted octane rating of 93. If unavailable, unleaded gasoline with a posted octane rating of 91 may be used, but with reduced performance and fuel economy. If the octane is less than 91, the engine could be damaged and the repairs would not be covered by the vehicle warranty. If heavy knocking is heard when using gasoline rated at 93 octane, the engine needs service.

Prohibited Fuels

Caution

Do not use fuels with any of the following conditions; doing so may damage the vehicle and void its warranty:

- For vehicles that are not FlexFuel, fuel labeled greater than 15% ethanol by volume, such as mid-level ethanol blends (16–50% ethanol), E85, or FlexFuel.
- Fuel with any amount of methanol, methylal, ferrocene, and aniline. These fuels can corrode metal fuel system parts or damage plastic and rubber parts.
- Fuel containing metals such as methylcyclopentadienyl manganese tricarbonyl

(Continued)

Caution (Continued)

(MMT), which can damage the emissions control system and spark plugs.

- Fuel with a posted octane rating of less than the recommended fuel. Using this fuel will lower fuel economy and performance, and may decrease the life of the emissions catalyst.

Fuels in Foreign Countries

The U.S., Canada, and Mexico post fuel octane ratings in anti-knock index (AKI). For fuel not to use in a foreign country, see *Prohibited Fuels* ⇨ 213.

Fuel Additives

TOP TIER Detergent Gasoline is highly recommended for use with your vehicle. If your country does not have TOP TIER Detergent Gasoline, add ACDelco Fuel

System Treatment Plus–Gasoline to the vehicle's gasoline fuel tank at every oil change or 15,000 km (9,000 mi), whichever occurs first. TOP TIER Detergent Gasoline and ACDelco Fuel System Treatment Plus–Gasoline will help keep your vehicle's engine fuel deposit free and performing optimally.

Filling the Tank

Warning

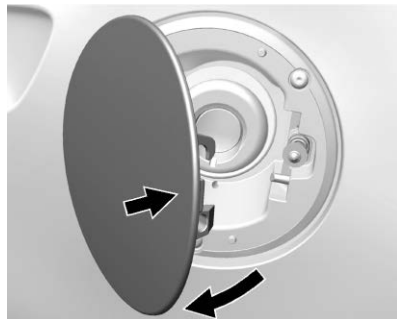
Fuel vapors and fuel fires burn violently and can cause injury or death.

- To help avoid injuries to you and others, read and follow all the instructions on the fuel pump island.
- Turn off the engine when refueling.
- Keep sparks, flames, and smoking materials away from fuel.

(Continued)

Warning (Continued)

- Do not leave the fuel pump unattended.
- Avoid using electronic devices while refueling.
- Do not reenter the vehicle while pumping fuel.
- Keep children away from the fuel pump and never let children pump fuel.
- Fuel can spray out if the refueling nozzle is inserted too quickly. This spray can happen if the tank is nearly full, and is more likely in hot weather. Insert the refueling nozzle slowly and wait for any hiss noise to stop prior to beginning to flow fuel.



To open the fuel door, push and release the rearward center edge of the door. The fuel door is locked when the vehicle doors are locked. Press  on the RKE transmitter to unlock. The driver door must be opened before the fuel door will unlock.

The vehicle has a capless refueling system and does not have a fuel cap. The filling nozzle must be fully inserted and latched prior to starting fuel flow.

⚠ Warning

Overfilling the fuel tank by more than three clicks of a standard fill nozzle may cause:

- Vehicle performance issues, including engine stalling and damage to the fuel system.
- Fuel spills.
- Potential fuel fires.

Be careful not to spill fuel. Wait a few seconds before removing the nozzle. After initial shutoff, do not partially remove the nozzle to add more fuel as this will result in fuel spillage. Clean fuel from painted surfaces as soon as possible. See *Exterior Care* ⇨ 300.

⚠ Warning

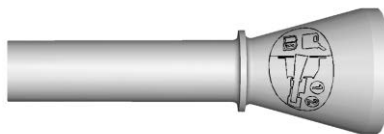
If a fire starts while you are refueling, do not remove the nozzle. Shut off the flow of fuel by
(Continued)

Warning (Continued)

shutting off the pump or by notifying the station attendant. Leave the area immediately.

Filling the Tank with a Portable Gas Can

If the vehicle runs out of fuel and must be filled from a portable gas can:



1. Locate the capless funnel adapter from inside the vehicle.
2. Insert and latch the funnel into the capless fuel system.

⚠ Warning

Attempting to refuel without using the funnel adapter may cause fuel spillage and damage the capless fuel system. This could cause a fire and you or others could be badly burned and the vehicle could be damaged.

3. Remove and clean the funnel adapter and return it to the storage location.

Filling a Portable Fuel Container**⚠ Warning**

Never fill a portable fuel container while it is in the vehicle. Static electricity discharge from the container can ignite the fuel vapor. You can be badly burned
(Continued)

Warning (Continued)

and the vehicle damaged if this occurs. To help avoid injury to you and others:

- Dispense fuel only into approved containers.
- Do not fill a container while it is inside a vehicle, in a vehicle's trunk, pickup bed, or on any surface other than the ground.
- Bring the fill nozzle in contact with the inside of the fill opening before operating the nozzle. Contact should be maintained until the filling is complete.
- Do not smoke while pumping fuel.
- Avoid using electronic devices.

Trailer Towing**General Towing Information** **Warning**

Never tow a trailer with your vehicle. It was not designed or intended to tow a trailer.

Conversions and Add-Ons**Add-On Electrical Equipment** **Warning**

The Data Link Connector (DLC) is used for vehicle service and Emission Inspection/Maintenance testing. See *Malfunction Indicator Lamp (Check Engine Light)* ⇨ 113. A device connected to the DLC — such as an aftermarket fleet or driver-behavior tracking device — may interfere with vehicle systems. This could affect vehicle operation and cause a crash. Such devices may also access information stored in the vehicle's systems.

Caution

Some electrical equipment can damage the vehicle or cause components to not work and would not be covered by the vehicle warranty. Always check with your dealer before adding electrical equipment.

Add-on equipment can drain the vehicle's 12-volt battery, even if the vehicle is not operating.

The vehicle has an airbag system. Before attempting to add anything electrical to the vehicle, see *Servicing the Airbag-Equipped Vehicle* ⇨ 83 and *Adding Equipment to the Airbag-Equipped Vehicle* ⇨ 83.

Vehicle Care

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General Information

For service and parts needs, visit your dealer. You will receive genuine GM parts and GM-trained and supported service people.

Genuine GM parts have one of these marks:

ACDelco



GENUINE PARTS



GMC



ACCESSORIES

California Proposition 65 Warning

Warning

Most motor vehicles, including this one, as well as many of its service parts and fluids, contain and/or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Engine exhaust, many parts and systems, many fluids, and some component wear by-products contain and/or emit these chemicals. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

See *Battery - North America* ⇨ 251 and *Jump Starting - North America* ⇨ 295 and the back cover.

California Perchlorate Materials Requirements

Certain types of automotive applications, such as airbag initiators, seat belt pretensioners, and lithium batteries contained in Remote Keyless Entry transmitters, may contain perchlorate materials. Special handling may be necessary. For additional information, see www.dtsc.ca.gov/hazardouswaste/perchlorate.

Accessories and Modifications

Adding non-dealer accessories or making modifications to the vehicle can affect vehicle performance and safety, including such things as airbags, braking, stability, ride and handling, emissions systems, aerodynamics, durability, and electronic systems like antilock brakes, traction control, and stability control. These accessories or modifications could even cause malfunction or damage not covered by the vehicle warranty.

Damage to suspension components caused by modifying vehicle height outside of factory settings will not be covered by the vehicle warranty.

Damage to vehicle components resulting from modifications or the installation or use of non-GM certified parts, including control module or software modifications, is not covered under the terms of the vehicle warranty and may affect remaining warranty coverage for affected parts.

GM Accessories are designed to complement and function with other systems on the vehicle. See your dealer to accessorize the vehicle using genuine GM Accessories installed by a dealer technician.

Also, see *Adding Equipment to the Airbag-Equipped Vehicle* ➔ 83.

Lifting the Vehicle



Warning

Lifting a vehicle can cause an injury. The vehicle can slip off the jack and roll over you or other people. You and they could be badly injured. Find a level place to lift your vehicle. To help prevent the vehicle from moving:

1. Set the parking brake firmly.
2. Put an automatic transmission in P (Park) or a manual transmission in 1 (First) or R (Reverse).
3. Turn off the engine.

To be even more certain the vehicle will not move, put blocks in front of and behind the wheels.

Warning

Getting under a vehicle when it is lifted on a jack is dangerous. If the vehicle slips off the jack, you could be badly injured or killed. Never get under a vehicle when it is supported only by a jack.

Warning

Raising the vehicle with the jack improperly positioned can damage the vehicle or the vehicle may fall and cause injury to you or others.

If a jack is used to lift the vehicle, follow the instructions that came with the jack, and be sure to use the correct lifting points to avoid damaging the vehicle.

Caution

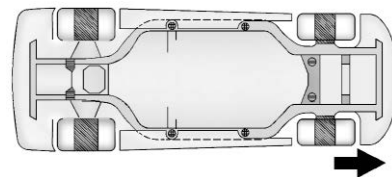
Lifting the vehicle improperly can damage it and result in costly repairs not covered by the vehicle warranty. To lift the vehicle properly and prevent vehicle damage:

- Be sure to place a block or pad between the jack and the vehicle.
- Lift only in the areas shown in the following illustrations.

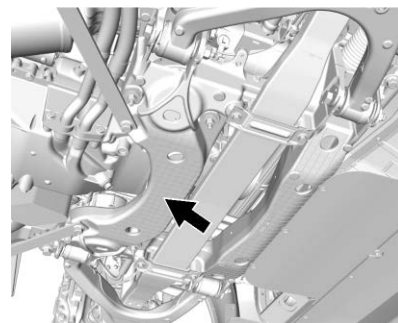
For additional information, see your dealer and the Chevrolet Corvette service manual.

Caution

The front jack pads must not contact the rocker panels, the front fenders, or the floor pan. If they do, damage may occur.

**Lifting from the Front – Cradle**

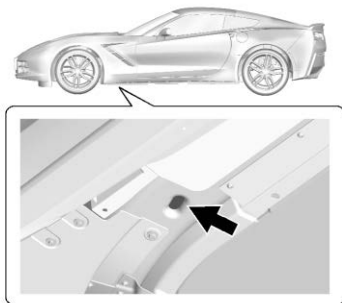
The front lifting points can be accessed from either side of the vehicle, behind the front tires.



1. Locate the front lifting points.
2. Place a block or pad between the jack and the vehicle.

3. Lift the vehicle with the jack.

Lifting from the Front – Frame

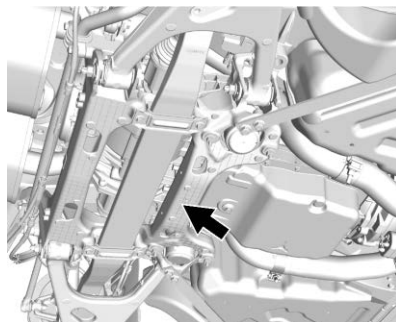


Use only a service jack with a lifting pad diameter of 64 mm (2.5 in) or smaller, and thick enough to make sure the jack does not contact the vehicle body.

Position the service jack and lifting pad under the frame rail shipping slot reinforcement.

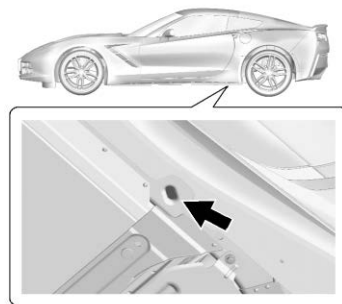
Lifting from the Rear – Cradle

The rear lifting points can be accessed from the rear driver or passenger side of the vehicle.



1. Locate the rear lifting points.
2. Place a block or pad between the jack and the vehicle.
3. Lift the vehicle with the jack.

Lifting from the Rear – Frame



Use only a service jack with a lifting pad diameter of 64 mm (2.5 in) or smaller, and thick enough to make sure the jack does not contact the vehicle body.

Position the service jack and lifting pad under the frame rail shipping slot reinforcement.

For more information, see *Doing Your Own Service Work* ⇨ 223.

Vehicle Checks

Doing Your Own Service Work

Warning

It can be dangerous to work on your vehicle if you do not have the proper knowledge, service manual, tools, or parts. Always follow owner's manual procedures and consult the service manual for your vehicle before doing any service work.

If doing some of your own service work, use the proper service manual. It tells you much more about how to service the vehicle than this manual can. To order the proper service manual, see *Publication Ordering Information* ⇨ 339.

This vehicle has an airbag system. Before attempting to do your own service work, see *Servicing the Airbag-Equipped Vehicle* ⇨ 83.

If equipped with remote vehicle start, open the hood before performing any service work to prevent remote starting the vehicle accidentally. See *Remote Vehicle Start* ⇨ 33.

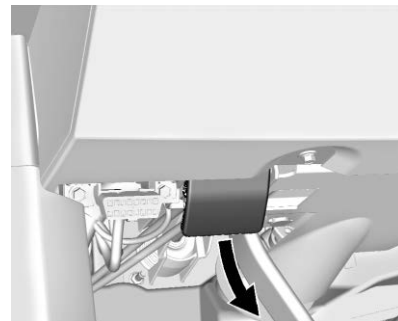
Keep a record with all parts receipts and list the mileage and the date of any service work performed. See *Maintenance Records* ⇨ 324.

Caution

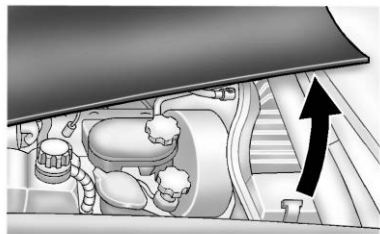
Even small amounts of contamination can cause damage to vehicle systems. Do not allow contaminants to contact the fluids, reservoir caps, or dipsticks.

Hood

To open the hood:



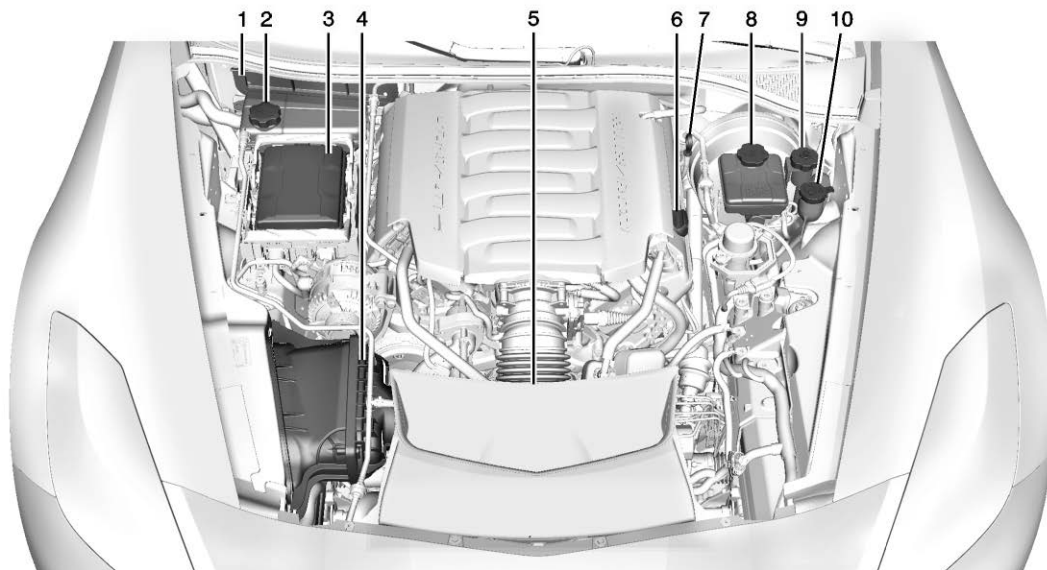
1. Pull the hood release lever inside the vehicle. It is below the instrument panel on the driver side.



2. Go to the side of the vehicle and pull up on the rear edge of the hood, near the windshield.

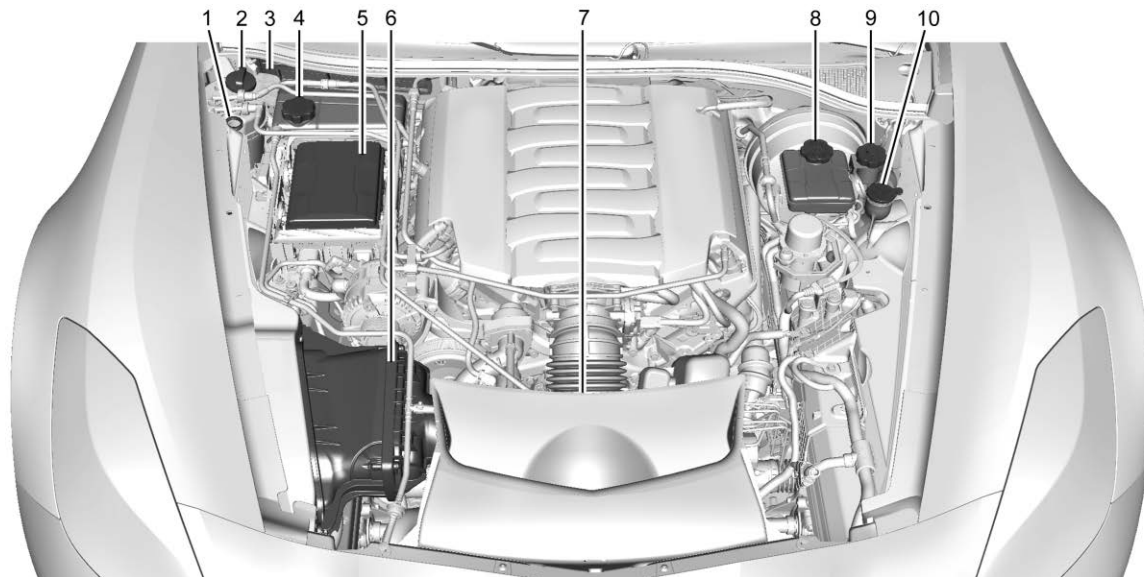
Before closing the hood, be sure all the filler caps are on properly. Then, pull the hood down and close it firmly.

Engine Compartment Overview



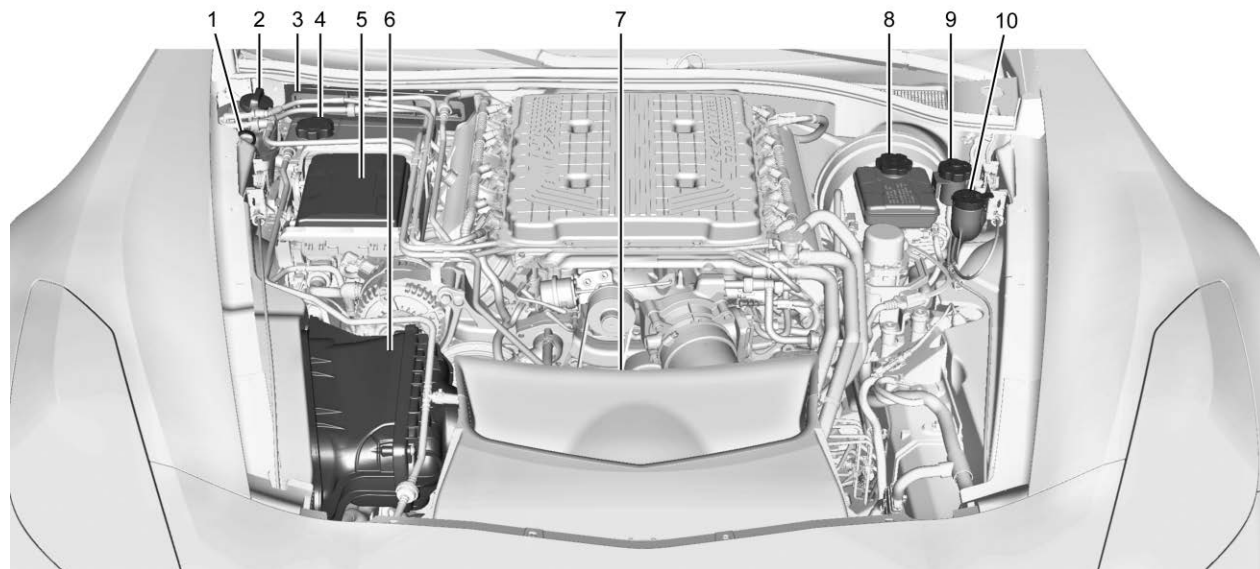
6.2L LT1 V8 Engine (without Dry Sump Engine Oil Tank)

1. <i>Passenger Compartment Air Filter</i> ⇨ 155 (Out of View). 2. <i>Coolant Surge Tank and Pressure Cap.</i> See <i>Cooling System (Engine)</i> ⇨ 242 or <i>Cooling System (Aero Panel)</i> ⇨ 246 or <i>Cooling System (Intercooler on LT4 and LT5 Engines)</i> ⇨ 247. 3. <i>Engine Compartment Fuse Block</i> ⇨ 259. 4. <i>Engine Air Cleaner/Filter</i> ⇨ 239. 5. <i>Engine Cooling Fan (Out of View).</i> See <i>Cooling System (Engine)</i> ⇨ 242 or <i>Cooling System (Aero Panel)</i> ⇨ 246 or <i>Cooling System (Intercooler on LT4 and LT5 Engines)</i> ⇨ 247. 6. <i>Engine Oil Fill Cap.</i> See “When to Add Engine Oil” under <i>Engine Oil</i> ⇨ 232. 7. <i>Engine Oil Dipstick.</i> See “Checking Engine Oil” under <i>Engine Oil</i> ⇨ 232. 8. <i>Brake Fluid Reservoir.</i> See <i>Brake Fluid</i> ⇨ 250.	9. <i>Clutch Master Cylinder Reservoir (If Equipped).</i> See <i>Hydraulic Clutch</i> ⇨ 239. 10. <i>Windshield Washer Fluid Reservoir.</i> See “Adding Washer Fluid” under <i>Washer Fluid</i> ⇨ 248.



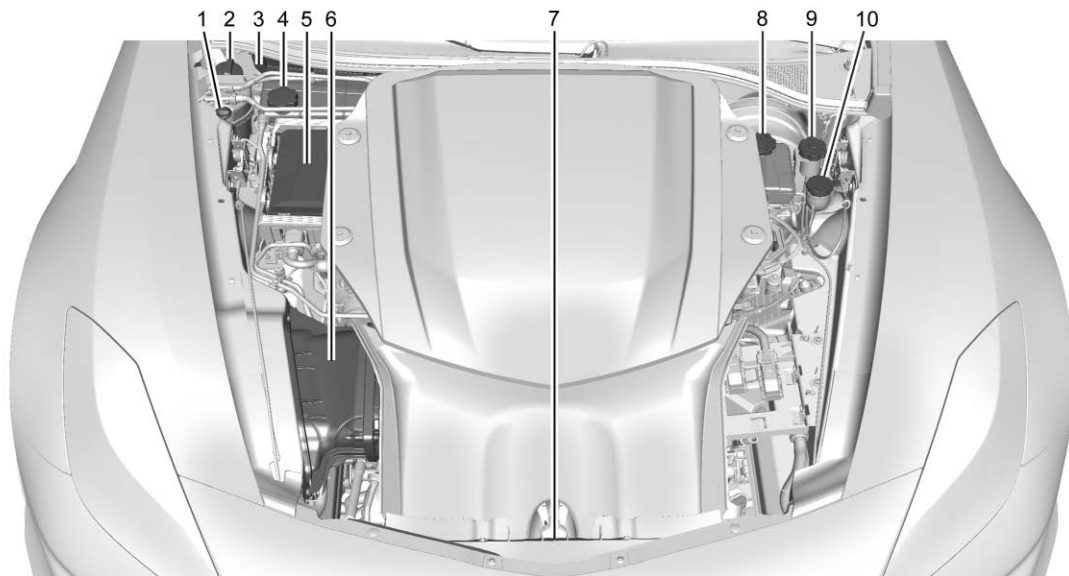
6.2L LT1 V8 Engine (Stingray with Z51 and Grand Sport – Dry Sump Engine Oil Tank)

1. Engine Oil Dipstick. See "Checking Engine Oil" under <i>Engine Oil</i> ⇨ 232. 2. Dry Sump Engine Oil Tank Fill Cap. See "Changing Engine Oil and Filter" <i>Engine Oil</i> ⇨ 232. 3. <i>Passenger Compartment Air Filter</i> ⇨ 155 (Out of View). 4. Coolant Surge Tank and Pressure Cap. See <i>Cooling System (Engine)</i> ⇨ 242 or <i>Cooling System (Aero Panel)</i> ⇨ 246 or <i>Cooling System (Intercooler on LT4 and LT5 Engines)</i> ⇨ 247. 5. <i>Engine Compartment Fuse Block</i> ⇨ 259. 6. <i>Engine Air Cleaner/Filter</i> ⇨ 239. 7. Engine Cooling Fan (Out of View). See <i>Cooling System (Engine)</i> ⇨ 242 or <i>Cooling System (Aero Panel)</i> ⇨ 246 or <i>Cooling System (Intercooler on LT4 and LT5 Engines)</i> ⇨ 247. 8. Brake Fluid Reservoir. See <i>Brake Fluid</i> ⇨ 250.	9. Clutch Master Cylinder Reservoir (If Equipped). See <i>Hydraulic Clutch</i> ⇨ 239. 10. Windshield Washer Fluid Reservoir. See "Adding Washer Fluid" under <i>Washer Fluid</i> ⇨ 248.



6.2L LT4 V8 Engine (with Z06 – Dry Sump Engine Oil Tank)

1. Engine Oil Dipstick. See "Checking Engine Oil" under <i>Engine Oil</i> ⇨ 232. 2. Dry Sump Engine Oil Tank Fill Cap. See "Changing Engine Oil and Filter" <i>Engine Oil</i> ⇨ 232. 3. <i>Passenger Compartment Air Filter</i> ⇨ 155 (Out of View). 4. Coolant Surge Tank and Pressure Cap. See <i>Cooling System (Engine)</i> ⇨ 242 or <i>Cooling System (Aero Panel)</i> ⇨ 246 or <i>Cooling System (Intercooler on LT4 and LT5 Engines)</i> ⇨ 247. 5. <i>Engine Compartment Fuse Block</i> ⇨ 259. 6. <i>Engine Air Cleaner/Filter</i> ⇨ 239. 7. Engine Cooling Fan (Out of View). See <i>Cooling System (Engine)</i> ⇨ 242 or <i>Cooling System (Aero Panel)</i> ⇨ 246 or <i>Cooling System (Intercooler on LT4 and LT5 Engines)</i> ⇨ 247. 8. Brake Fluid Reservoir. See <i>Brake Fluid</i> ⇨ 250.	9. Clutch Master Cylinder Reservoir (If Equipped). See <i>Hydraulic Clutch</i> ⇨ 239. 10. Windshield Washer Fluid Reservoir. See "Adding Washer Fluid" under <i>Washer Fluid</i> ⇨ 248.



6.2L LT5 V8 Engine (with Dry Sump Engine Oil Tank)

1. Engine Oil Dipstick. See "Checking Engine Oil" under *Engine Oil* ⇨ 232.
2. Dry Sump Engine Oil Tank Fill Cap. See "Changing Engine Oil and Filter" *Engine Oil* ⇨ 232.
3. *Passenger Compartment Air Filter* ⇨ 155 (Out of View).
4. Coolant Surge Tank and Pressure Cap.
See *Cooling System (Engine)* ⇨ 242 or *Cooling System (Aero Panel)* ⇨ 246 or *Cooling System (Intercooler on LT4 and LT5 Engines)* ⇨ 247.
5. *Engine Compartment Fuse Block* ⇨ 259.
6. *Engine Air Cleaner/Filter* ⇨ 239.
7. Engine Cooling Fan (Out of View).
See *Cooling System (Engine)* ⇨ 242 or *Cooling System (Aero Panel)* ⇨ 246 or *Cooling System (Intercooler on LT4 and LT5 Engines)* ⇨ 247.
8. Brake Fluid Reservoir. See *Brake Fluid* ⇨ 250.

9. Clutch Master Cylinder Reservoir (If Equipped). See *Hydraulic Clutch* ⇨ 239.
10. Windshield Washer Fluid Reservoir. See "Adding Washer Fluid" under *Washer Fluid* ⇨ 248.

Engine Oil

To ensure proper engine performance and long life, careful attention must be paid to engine oil. Following these simple, but important steps will help protect your investment:

- Use engine oil approved to the proper specification and of the proper viscosity grade. See "Selecting the Right Engine Oil" in this section.
- Check the engine oil level regularly and maintain the proper oil level. See "Checking Engine Oil" and "When to Add Engine Oil" in this section.
- Change the engine oil at the appropriate time. See *Engine Oil Life System* ⇨ 237.

- Always dispose of engine oil properly. See "What to Do with Used Oil" in this section.

Checking Engine Oil (Except ZR1, Z06, Grand Sport, and Stingray with Z51)

If the ENGINE OIL LOW-ADD OIL message displays on the Driver Information Center (DIC), check the engine oil level right away.

Check the engine oil level regularly, every 650 km (400 mi), especially prior to a long trip. The engine oil dipstick handle is a loop. See *Engine Compartment Overview* ⇨ 225 for the location.

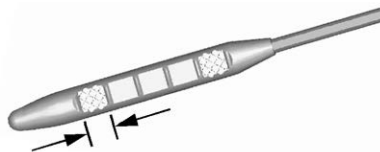
Warning

The engine oil dipstick handle may be hot; it could burn you. Use a towel or glove to touch the dipstick handle.

Follow these guidelines:

- To get an accurate reading, park the vehicle on level ground. Check the engine oil level after the engine has been off for at least two hours. Checking the engine oil level on steep grades or too soon after engine shutoff can result in incorrect readings. Accuracy improves when checking a cold engine prior to starting. Remove the dipstick and check the level.
- If unable to wait two hours, the engine must be off for at least 15 minutes if the engine is warm, or at least 30 minutes if the engine is not warm. Pull out the dipstick, wipe it with a clean paper towel or cloth, then push it back in all the way. Remove it again, keeping the tip down, and check the level.

When to Add Engine Oil (Except ZR1, Z06, Grand Sport, and Stingray with Z51)



If the oil is below the cross-hatched area at the tip of the dipstick and the engine has been off for at least 15 minutes, add 1 L (1 qt) of the recommended oil and then recheck the level. See “Selecting the Right Engine Oil” later in this section for an explanation of what kind of oil to use. For engine oil crankcase capacity, see *Capacities and Specifications* ⇨ 326.

See *Track Events and Competitive Driving* ⇨ 161 for additional information on engine oil.

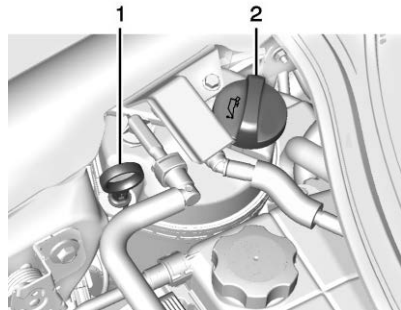
Caution

Do not add too much oil. Oil levels above or below the acceptable operating range shown on the dipstick are harmful to the engine. If the oil level is above the operating range (i.e., the engine has so much oil that the oil level gets above the cross-hatched area that shows the proper operating range), the engine could be damaged. Drain the excess oil or limit driving of the vehicle, and seek a service professional to remove the excess oil.

See *Engine Compartment Overview* ⇨ 225 for the location of the engine oil fill cap.

Add enough oil to put the level somewhere in the proper operating range. Push the dipstick all the way back in when through.

Checking Engine Oil (ZR1, Z06, Grand Sport, and Stingray with Z51)



1. Engine Oil Dipstick
2. Engine Oil Fill Cap

It is a good idea to check the engine oil level at each fuel fill. In order to get an accurate reading, the vehicle must be on level ground.

The engine oil dipstick handle is a loop. The dipstick is located on the dry sump engine oil tank. See *Engine Compartment Overview* ⇨ 225 for the location of the dry sump engine oil tank.

These vehicles have a racetrack-ready dry sump engine lubrication system. This high performance system operates differently than a standard engine lubrication system and requires a special procedure when checking the engine oil level. Follow this procedure closely.

The engine oil level must be checked when the engine is warm. Cold oil level in the dry sump tank may not indicate the actual amount of oil in the system. With this system, engine oil is contained in an external tank, separate from the engine. Under normal operating conditions, the oil pan under the engine does not store any oil. If the vehicle has been parked for an extended period without the engine being started, some oil will seep back into the oil pan, reducing the amount of oil held in the dry sump tank and there could be no engine oil at all showing on the dipstick. This is normal since the dipstick is designed to read the engine oil level only after the engine has run long enough to reach normal operating

temperature. Do not add engine oil based on cold engine dipstick readings. The engine oil level on the dipstick will also be inaccurate if checked while the engine is running.

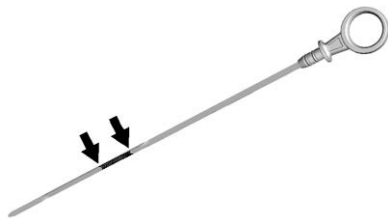
1. To obtain an accurate engine oil level reading, warm up the engine to at least 80 °C (175 °F). Cold oil will not give a correct oil level reading.
2. Once the engine is warm, turn off the engine. Checking the oil while the engine is running will result in an incorrect oil level reading.
3. Check the oil level between five and 10 minutes after the engine is shut down.

Warning

The engine oil dipstick handle may be hot; it could burn you. Use a towel or glove to touch the dipstick handle.

4. Remove the dipstick from the external engine oil tank and wipe it with a clean lint-free paper towel or a cloth. Re-insert the dipstick into the external oil tank, pushing it all the way in until it stops.
5. Remove the dipstick from the oil tank and read the level on the cross-hatched area.

When to Add Engine Oil (ZR1, Z06, Grand Sport, and Stingray with Z51)



If the oil is below the cross-hatched area at the tip of the dipstick, add 1 L (1 qt) of the recommended oil through the oil fill cap opening in the oil tank and then recheck the level.

See “Selecting the Right Engine Oil” for an explanation of what kind of oil to use. For engine oil crankcase capacity, see *Capacities and Specifications* ⇨ 326.

See *Track Events and Competitive Driving* ⇨ 161 for additional information on engine oil.

Caution

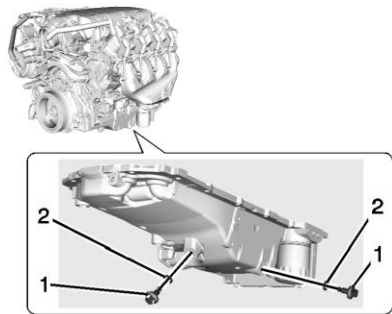
Do not add too much oil. Oil levels above or below the acceptable operating range shown on the dipstick are harmful to the engine. If the oil level is above the operating range (i.e., the engine has so much oil that the oil level gets above the cross-hatched area that shows the proper operating range), the engine could be damaged. Drain the excess oil or limit driving of the vehicle, and seek a service professional to remove the excess oil.

See *Engine Compartment Overview* ⇨ 225 for the location of the external engine oil tank and fill cap.

Add enough oil to put the level somewhere in the proper operating range. Push the dipstick all the way back into the oil tank when through.

Changing Engine Oil and Filter (ZR1, Z06, Grand Sport, and Stingray with Z51)

The vehicle may have a racetrack-ready dry sump engine lubrication system. This high performance system operates differently than a standard engine lubrication system and requires a special procedure when changing the engine oil and filter. Follow this procedure closely when changing the engine oil and filter.



1. Engine Oil Drain Plugs
2. Seals

Steps to follow:

1. Remove the two engine oil drain plugs from the bottom of the engine oil pan. One drain plug drains the external oil tank via the oil transfer supply line. The other drain plug drains residual oil from the crankcase sump. Allow the oil to drain.
2. Once the oil has been drained from the engine, remove the engine oil filter and allow the oil to drain.

3. Reinstall both drain plugs and tighten them to 25 N•m (18 lb ft).
4. Replace the oil filter and tighten it three-quarters to one turn after gasket contact. See *Maintenance Replacement Parts* ⇨ 323 for the correct filter.
5. Oil is filled through the opening in the top of the external engine oil tank. Remove the oil fill cap.
6. Add oil to the oil tank. See *Capacities and Specifications* ⇨ 326.
7. Install the oil fill cap and insert the dipstick, if removed.
8. Start the engine and let it run at idle for at least 15 seconds. This will circulate the fresh engine oil through the lubrication system.
9. Shut off the engine and check the oil level as described under "Checking Engine Oil (ZR1, Z06, Grand Sport, and Stingray with Z51)."

Selecting the Right Engine Oil

Selecting the right engine oil depends on both the proper oil specification and viscosity grade. See *Recommended Fluids and Lubricants* ⇨ 321.

Specification

Use engine oils that meet the dexos2 specification.



Engine oils that have been approved by GM as meeting the dexos2 specification are marked with the dexos2 approved logo. See www.gmdexos.com.

Caution

Failure to use the recommended engine oil or equivalent can result in engine damage not covered by the vehicle warranty.

Viscosity Grade

Use SAE 0W-40 viscosity grade engine oil.

When selecting an oil of the appropriate viscosity grade, it is recommended to select an oil of the correct specification. See "Specification" earlier in this section.

For the LT1 and LT4 engines only, if 0W-40 dexos2 oil is not available, SAE 5W-30 dexos1 full synthetic engine oil may be used for street use.

Engine Oil Additives/Engine Oil Flushes

Do not add anything to the oil. The recommended oils meeting the dexos2 specification are all that is needed for good performance and engine protection.

Engine oil system flushes are not recommended and could cause engine damage not covered by the vehicle warranty.

What to Do with Used Oil

Used engine oil contains certain elements that can be unhealthy for your skin and could even cause cancer. Do not let used oil stay on your skin for very long. Clean your skin and nails with soap and water, or a good hand cleaner. Wash or properly dispose of clothing or rags containing used engine oil. See the manufacturer's warnings about the use and disposal of oil products.

Used oil can be a threat to the environment. If you change your own oil, be sure to drain all the oil from the filter before disposal. Never

dispose of oil by putting it in the trash or pouring it on the ground, into sewers, or into streams or bodies of water. Recycle it by taking it to a place that collects used oil.

Engine Oil Life System**When to Change Engine Oil**

This vehicle has a computer that indicates when to change the engine oil and filter. This is based on a combination of factors which include engine revolutions, engine temperature, and miles driven. Based on driving conditions, the mileage at which an oil change is indicated can vary considerably. For the oil life system to work properly, the system must be reset every time the oil is changed.

Z06, Grand Sport, ZR1, and Stingray with Z51 have a racetrack-ready dry sump engine lubrication system. This high performance system operates differently than a standard engine lubrication system and requires a

special procedure when changing the engine oil and filter. See *Engine Oil* ⇨ 232.

When the system has calculated that oil life has been diminished, it indicates that an oil change is necessary. A CHANGE ENGINE OIL SOON message comes on. Change the oil as soon as possible within the next 1 000 km (600 mi). It is possible that, if driving under the best conditions, the oil life system may not indicate that an oil change is necessary for up to a year. The engine oil and filter must be changed at least once a year and, at this time, the system must be reset. Your dealer has trained service people who will perform this work and reset the system. It is also important to check the oil regularly over the course of an oil drain interval and keep it at the proper level.

If the system is ever reset accidentally, the oil must be changed at 5 000 km (3,000 mi)

since the last oil change. Remember to reset the oil life system whenever the oil is changed.

Dry Sump Engine Break-In Oil Change

If equipped with a dry sump engine, the initial oil and filter change must be performed at 800 km/500 mi. Follow the engine oil life system for every oil change thereafter.

How to Reset the Engine Oil Life System

Reset the system whenever the engine oil is changed so that the system can calculate the next engine oil change. To reset the system:

1. Scroll through the DIC Info Pages menu until the REMAINING OIL LIFE percentage is displayed. See *Driver Information Center (DIC)* ⇨ 121.
2. Press and hold SEL on the DIC while the Oil Life display is active. The oil life will change to 100%.

If the CHANGE ENGINE OIL SOON message comes back on when the vehicle is started, the engine oil life system has not reset. Repeat the procedure.

Automatic Transmission Fluid

How to Check Automatic Transmission Fluid

It is not necessary to check the transmission fluid level. A transmission fluid leak is the only reason for fluid loss. If a leak occurs, take the vehicle to the dealer and have it repaired as soon as possible.

The vehicle is not equipped with a transmission fluid level dipstick. There is a special procedure for checking and changing the transmission fluid. Because this procedure is difficult, this should be done at the dealer. Contact the dealer for additional information or the procedure can be found in the

service manual. To purchase a service manual, see *Publication Ordering Information* ⇨ 339.

Caution

Use of the incorrect automatic transmission fluid may damage the vehicle, and the damage may not be covered by the vehicle warranty. Always use the correct automatic transmission fluid. See *Recommended Fluids and Lubricants* ⇨ 321.

Change the fluid and filter at the proper intervals. See *Maintenance Schedule* ⇨ 312. Be sure to use the correct fluid. See *Recommended Fluids and Lubricants* ⇨ 321.

Manual Transmission Fluid

It is not necessary to check the manual transmission fluid level. A transmission fluid leak is the only reason for fluid loss. If a leak occurs, take the vehicle to the

dealer and have it repaired as soon as possible. See *Recommended Fluids and Lubricants* ⇨ 321 for the proper fluid to use.

Hydraulic Clutch

It is not necessary to regularly check clutch fluid unless you suspect there is a leak in the system. Adding fluid will not correct a leak. A fluid loss in this system could indicate a problem. Have the system inspected and repaired.

The fluid will darken over time. See *Maintenance Schedule* ⇨ 312 for when to replace the fluid.

When to Check and What to Use



The hydraulic clutch fluid reservoir cap has this symbol on it. See *Engine Compartment Overview* ⇨ 225 for reservoir location.

Refer to *Recommended Fluids and Lubricants* ⇨ 321 for the proper fluid to use. The fluid requires changing. See *Maintenance Schedule* ⇨ 312.

How to Check and Add Fluid

Visually check the clutch fluid reservoir to make sure the fluid level is at the MIN (minimum) line on the side of the reservoir. The hydraulic clutch fluid system should be closed and sealed.

Do not remove the cap to check the fluid level or to top off the fluid level. Remove the cap only when necessary to add the proper fluid until the level reaches the MIN line.

Engine Air Cleaner/Filter

See *Engine Compartment Overview* ⇨ 225 for the location of the engine air cleaner/filter.

Caution

If water is sprayed and enters the engine air cleaner/filter intake and housing, the engine could be damaged. The repairs would not be covered by the vehicle warranty.

When to Inspect the Engine Air Cleaner/Filter

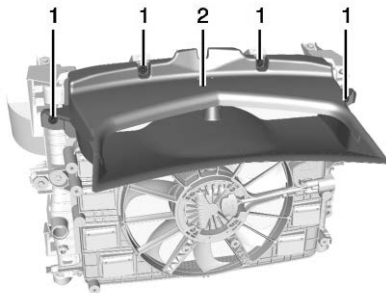
For intervals on changing and inspecting the engine air cleaner/filter, see *Maintenance Schedule* ⇨ 312.

How to Inspect the Engine Air Cleaner/Filter

Do not start the engine or have the engine running with the engine air cleaner/filter housing open. Before removing the engine air cleaner/filter, make sure that the engine air cleaner/filter housing and nearby components are free of dirt and debris. Remove the engine air cleaner/filter. Lightly tap and shake the engine air cleaner/filter (away

from the vehicle), to release loose dust and dirt. Inspect the engine air cleaner/filter for damage, and replace if damaged. Do not clean the engine air cleaner/filter or components with water or compressed air.

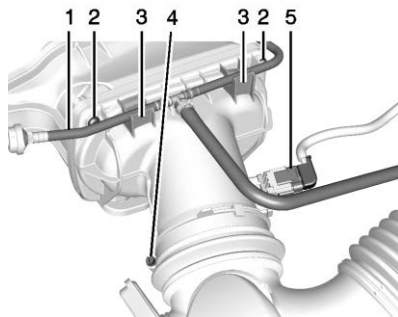
To remove the hood extractor duct to gain access:

**LT1 and LT4 Shown, LT5 Similar**

1. Bolts (4)
 2. Hood Extractor Duct
1. Open the hood. See *Hood* ⇨ 223.

2. Remove the four bolts (1) and the hood extractor duct (2).
3. Reverse Step 2 to replace the hood extractor duct.

To inspect or replace the engine air cleaner/filter:

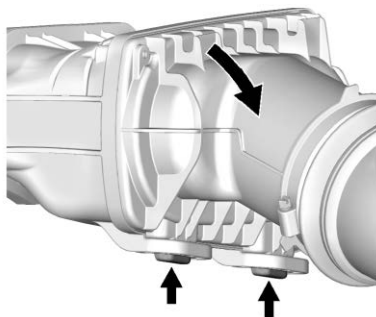


1. Surge Tank Coolant Hose
2. Screws (2)
3. Hose Retainers (2)
4. Air Duct Clamp
5. Electrical Connector

Caution

If the engine coolant surge tank hose is not carefully lifted out of the hose retainers on the air cleaner/filter cover assembly, it may be damaged and cause engine coolant to leak. Damage would not be covered by the vehicle warranty.

1. Carefully lift the surge tank coolant hose (1) from both hose retainers (3) and position the hose to be able to remove the screws securing the air cleaner/filter endcap.
2. Loosen the air duct clamp (4) at the air cleaner/filter housing endcap and move the duct out of the way.
3. Remove the electrical connector (5) from the sensor.
4. Remove the two screws (2).



5. Turn the air cleaner/filter endcap downward and disengage the lower endcap mounting tabs from the lower retention hinge features. Be sure to insert the lower endcap mounting tabs fully into the housing retention hinge features before turning the endcap upward and replacing the screws.
6. Inspect or replace the air cleaner/filter.

7. Reverse Steps 1–6 to replace the air cleaner/filter endcap.
8. Replace the extractor hood duct. See above.

Warning

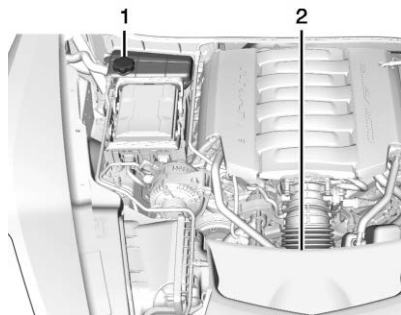
Operating the engine with the air cleaner/filter off can cause you or others to be burned. Use caution when working on the engine. Do not start the engine or drive the vehicle with the air cleaner/filter off, as flames may be present if the engine backfires.

Caution

If the air cleaner/filter is off, dirt can easily get into the engine, which could damage it. Always have the air cleaner/filter in place when driving.

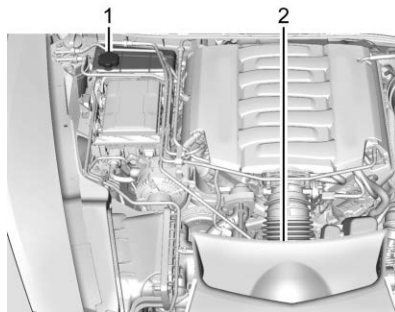
Cooling System (Engine)

The cooling system allows the engine to maintain the correct working temperature.



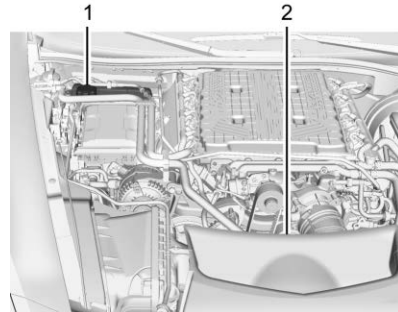
LT1 Engine (without Dry Sump Engine Oil Tank)

1. Coolant Surge Tank with Pressure Cap
2. Engine Cooling Fan (Out of View)



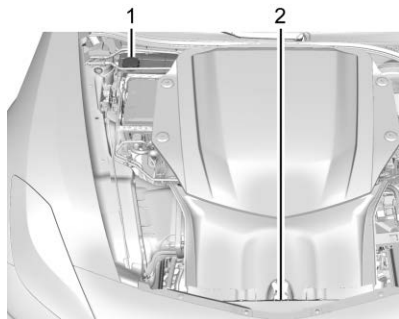
LT1 Engine (with Dry Sump Engine Oil Tank)

1. Coolant Surge Tank with Pressure Cap
2. Engine Cooling Fan (Out of View)



LT4 Engine (with Dry Sump Engine Oil Tank)

1. Coolant Surge Tank with Pressure Cap
2. Engine Cooling Fan (Out of View)



**LT5 Engine (with Dry Sump
Engine Oil Tank)**

1. Coolant Surge Tank with Pressure Cap
2. Engine Cooling Fan (Out of View)

Warning

An underhood electric fan can start up even when the engine is not running and can cause injury. Keep hands, clothing, and tools away from any underhood electric fan.

Warning

Do not touch heater or radiator hoses, or other engine parts. They can be very hot and can burn you. Do not run the engine if there is a leak; all coolant could leak out. That could cause an engine fire and can burn you. Fix any leak before driving the vehicle.

Engine Coolant

The cooling system in the vehicle is filled with DEX-COOL engine coolant. See *Recommended Fluids and Lubricants* ⇨ 321. The fluid requires changing at certain intervals. See *Maintenance Schedule* ⇨ 312.

The following explains the cooling system and how to check and add coolant when it is low. If there is a problem with engine overheating, see *Engine Overheating* ⇨ 247.

What to Use

Warning

Plain water, or other liquids such as alcohol, can boil before the proper coolant mixture will. With plain water or the wrong mixture, the engine could get too hot but there would not be an overheat warning. The engine could catch fire and you or others could be burned.

Use a mixture of 40% DEX-COOL coolant and 60% clean, drinkable water. If using this mixture, nothing else needs to be added. This mixture:

- Gives freezing protection down to -28°C (-18°F), outside temperature.
- Gives boiling protection up to 129°C (265°F), engine temperature.
- Protects against rust and corrosion.

- Will not damage aluminum parts.
- Helps keep the proper engine temperature.

Caution

Do not use anything other than a mix of DEX-COOL coolant that meets GM Standard GMW3420 and clean, drinkable water. Anything else can cause damage to the engine cooling system and the vehicle, which would not be covered by the vehicle warranty.

Never dispose of engine coolant by putting it in the trash, pouring it on the ground, or into sewers, streams, or bodies of water. Have the coolant changed by an authorized service center, familiar with legal requirements regarding used coolant disposal. This will help protect the environment and your health.

If ambient temperatures are anticipated below -28°C (-18°F), make sure a proper mixture ratio of 50% DEX-COOL coolant and 50% clean, drinkable water is used.

Checking Coolant

The vehicle must be on a level surface when checking the coolant level.

Check to see if coolant is visible in the coolant surge tank. If the coolant inside the coolant surge tank is boiling, do not do anything else until it cools down. If coolant is visible but the coolant level is not at or above the cold fill line, add a mixture of 40% DEX-COOL coolant and 60% clean, drinkable water at the coolant recovery tank, but be sure the cooling system is cool before this is done. See *Engine Overheating* ⇨ 247.

The engine coolant surge tank is toward the rear of the engine compartment on the passenger side of the vehicle. See *Engine Compartment Overview* ⇨ 225.

When the engine is cold, the coolant level should be at the cold fill line on the coolant surge tank.

When the engine is hot, the level could be higher than the cold fill line. If the coolant is below the cold fill line when the engine is hot, there could be a leak in the cooling system.

If the coolant is low, add the coolant or take the vehicle to your dealer for service.

How to Add Coolant to the Coolant Surge Tank

Warning

Spilling coolant on hot engine parts can burn you. Coolant contains ethylene glycol and it will burn if the engine parts are hot enough.

Warning

Steam and scalding liquids from a hot cooling system are under pressure. Turning the pressure cap, even a little, can cause them to come out at high speed and you could be burned. Never turn the cap when the cooling system, including the pressure cap, is hot. Wait for the cooling system and pressure cap to cool.

If coolant is needed, add the proper DEX-COOL coolant mixture directly to the surge tank, but be sure the cooling system is cool before this is done.



1. When the cooling system, including the coolant surge tank pressure cap and upper radiator hose, is no longer hot, remove the pressure cap.
Turn the pressure cap slowly counterclockwise about one-quarter turn and then stop.
If a hiss is heard, wait for that to stop. A hiss means there is still some pressure left.
2. Keep turning the pressure cap slowly, and remove it.
3. Fill the coolant surge tank with the proper mixture until the level inside stabilizes at the cold fill line on the front of the surge tank.
4. With the coolant surge tank pressure cap off, start the engine and let it run until the upper radiator hose can be felt getting hot. Any time during this procedure, watch out for the engine cooling fan.

By this time, the coolant level inside the coolant surge tank may be lower. If the level is lower, add more of the proper mixture to the coolant surge tank until the level stabilizes at the cold fill line on the coolant surge tank.

5. Replace the pressure cap tightly.
6. Verify coolant level after the engine is shut off and the coolant is cold. If necessary, repeat coolant fill procedure Steps 1–6.

If the coolant still is not at the proper level when the system cools down again, see your dealer.

Caution

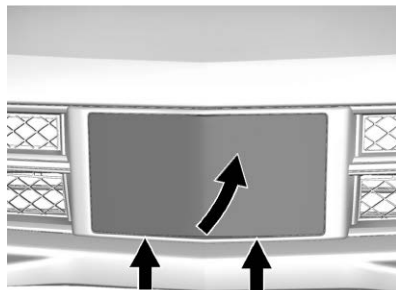
If the pressure cap is not tightly installed, coolant loss and engine damage may occur. Be sure the cap is properly and tightly secured.

Cooling System (Aero Panel)

The aero panel enhances aerodynamic efficiency and improves fuel economy.

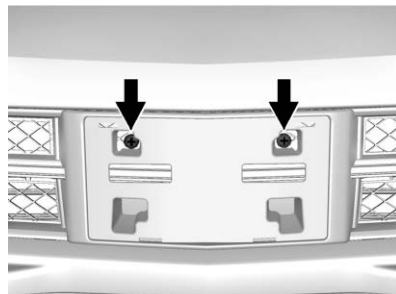
Remove the aero panel and bracket to improve engine cooling and air conditioning performance when driving aggressively or in hot weather.

To remove the aero panel and bracket:



Stingray Shown, Grand Sport, Z06, and ZR1 Similar

1. Press up on the two indentments at the bottom and lift the aero panel off the bracket.



2. Unscrew the two fasteners that secure the bracket.
3. Gently pull the bracket away from the grille.

To replace the bracket and aero panel:

1. Position the bracket over the grille.
2. Secure the bracket by pushing the two fasteners into place.
3. Snap the aero panel into place.

Cooling System (Intercooler on LT4 and LT5 Engines)

Engine performance can be greatly reduced when the intercooler system is not completely full. If there is a decrease in engine performance, or if the intercooler system has experienced a loss of coolant, see your dealer.

Engine Overheating

The vehicle has several indicators to warn of engine overheating.

There is an engine coolant temperature gauge on the instrument cluster. See *Engine Coolant Temperature Gauge* ⇨ 110. The vehicle may also display a message on the Driver Information Center (DIC).

If the decision is made not to lift the hood but to get service help right away, see *Roadside Assistance Program* ⇨ 334.

If the decision is made to lift the hood, make sure the vehicle is parked on a level surface.

Then check to see if the engine cooling fan is running. If the engine is overheating, the fan should be running. If it is not, do not continue to run the engine, and have the vehicle serviced.

Caution

Do not run the engine if there is a leak in the engine cooling system. This can cause a loss of all coolant and can damage the system and vehicle. Have any leaks fixed right away.

If Steam Is Coming from the Engine

Warning

Steam and scalding liquids from a hot cooling system are under pressure. Turning the pressure
(Continued)

Warning (Continued)

cap, even a little, can cause them to come out at high speed and you could be burned. Never turn the cap when the cooling system, including the pressure cap, is hot. Wait for the cooling system and pressure cap to cool.

If Steam Is Coming from the Engine Compartment with no Overheat Warning

The hood vent opening, if equipped, will allow water from rain and car washes to enter the engine compartment and contact hot surfaces. If steam is coming from the hood vent opening with no accompanying overheat warning, no service is needed.

If No Steam Is Coming from the Engine

If an engine overheat warning is displayed but no steam can be seen or heard, the problem may not be

too serious. Sometimes the engine can get a little too hot when the vehicle:

- Climbs a long hill on a hot day.
- Stops after high-speed driving.
- Idles for long periods in traffic.

If the overheat warning is displayed with no sign of steam:

1. Turn the air conditioning off.
2. Turn the heater on to the highest temperature and to the highest fan speed. Open the windows as necessary.
3. When it is safe to do so, pull off the road, shift to P (Park) or N (Neutral), and let the engine idle.

If the temperature overheat gauge is no longer in the shaded area or an overheat warning no longer displays, the vehicle can be driven. Continue to drive the vehicle slowly for about 10 minutes. Keep a safe vehicle distance from the vehicle in front. If the warning does not come

back on, continue to drive normally and have the cooling system checked for proper fill and function.

If the warning continues, pull over, stop, and park the vehicle right away.

If there is no sign of steam, idle the engine for three minutes while parked. If the warning is still displayed, turn off the engine until it cools down.

Washer Fluid

What to Use

When the vehicle needs windshield washer fluid, be sure to read the manufacturer instructions before use. If the vehicle will be operating in an area where the temperature may fall below freezing, use a fluid that has sufficient protection against freezing.

Adding Washer Fluid



Open the cap with the washer symbol on it. Add washer fluid until the tank is full. See *Engine Compartment Overview* ⇨ 225.

Caution

- Do not use washer fluid that contains any type of water repellent coating. This can cause the wiper blades to chatter or skip.
- Do not use engine coolant (antifreeze) in the windshield washer. It can damage the windshield washer system and paint.

(Continued)

Caution (Continued)

- Do not mix water with ready-to-use washer fluid. Water can cause the solution to freeze and damage the washer fluid tank and other parts of the washer system.
- When using concentrated washer fluid, follow the manufacturer instructions for adding water.
- Fill the washer fluid tank only three-quarters full when it is very cold. This allows for fluid expansion if freezing occurs, which could damage the tank if it is completely full.

Brakes**Brake Wear**

Disc brake pads have built-in wear indicators that make a high-pitched warning sound when the brake pads are worn and new pads are needed.

The sound can come and go or be heard all the time the vehicle is moving, except when applying the brake pedal firmly.

Warning

The brake wear warning sound means that soon the brakes will not work well. That could lead to a crash. When the brake wear warning sound is heard, have the vehicle serviced.

Caution

Continuing to drive with worn-out brake pads could result in costly brake repair.

Under certain weather or operating conditions, occasional brake squeal might be heard with the vehicle's performance braking system. This brake system is designed for superior fade resistance and consistent operation using high

performance brake pads. Brake squeal is normal and does not affect system performance.

If equipped with high performance brake linings, there could be an increased build-up of brake dust as well as minor noises as compared to standard brake linings.

Brake linings should always be replaced as complete axle sets.

Brake Wear (ZR1, Z06, and Grand Sport with J57 Ceramic Brakes)

This vehicle does not have built-in brake pad wear indicators. Periodic visual inspection is required to determine when to replace the brake pads.

The ZR1, Z06, and Grand Sport Coupe with J57 models also have an electronic brake pad wear sensor system. When pads are worn, the CHANGE BRAKE PADS message displays in the Driver Information Center. Some driving conditions or climates can cause a brake squeal when the brakes are first applied or

lightly applied. Brake linings should always be replaced as complete axle sets.

Brake Rotor Wear

ZR1, Z06, and Grand Sport models may have ceramic brake rotors. Rotors should be visually inspected whenever the brake pads are replaced. Rotors also need to be weighed before brake pads are replaced to confirm that the rotor mass is greater than the wear-out mass printed on then rotor. The rotor can be reused if the weight of the rotor is above the mass limit. Rotor inspection and weighing methods can be found in the service manual.

Brake Pedal Travel

See your dealer if the brake pedal does not return to normal height, or if there is a rapid increase in pedal travel. This could be a sign that brake service may be required.

Replacing Brake System Parts

Always replace brake system parts with new, approved replacement parts. If this is not done, the brakes may not work properly. The braking performance expected can change in many other ways if the wrong replacement brake parts are installed or parts are improperly installed.

Cold Weather Brake Operation

High performance brake components may bind and clunk when moving the vehicle. This may be noticeable after parking when the brakes have been wet, such as when driving in the rain or after a car wash. This is normal for brakes with high friction pads and does not affect the operation of the brakes. Apply the brakes several times until the binding or clunking stops. Drive the vehicle and apply the brakes several times if it is washed before long-term storage.

Brake Fluid



The brake/clutch master cylinder reservoir is filled with GM approved DOT 4 brake fluid as indicated on the reservoir cap. See *Engine Compartment Overview* ⇨ 225 for the location of the reservoir.

Checking Brake Fluid

Place the vehicle in P (Park) or Neutral with the parking brake applied if equipped with a manual transmission. On a level surface, the brake fluid level should be between the minimum and maximum marks on the brake fluid reservoir.

There are only two reasons why the brake fluid level in the reservoir may go down:

- Normal brake lining wear. When new linings are installed, the fluid level goes back up.
- A fluid leak in the brake/clutch hydraulic system. Have the brake/clutch hydraulic system fixed. With a leak, the brakes will not work well.

Always clean the brake fluid reservoir cap and the area around the cap before removing it.

Do not top off the brake/clutch fluid. Adding fluid does not correct a leak. If fluid is added when the linings are worn, there will be too much fluid when new brake linings are installed. Add or remove fluid, as necessary, only when work is done on the brake/clutch hydraulic system.

Warning

If too much brake fluid is added, it can spill on the engine and burn, if the engine is hot enough. You or others could be burned, and the vehicle could be damaged. Add brake fluid only when work is done on the brake/clutch hydraulic system.

When the brake/clutch fluid falls to a low level, the brake warning light comes on. See *Brake System Warning Light* ⇨ 115.

Brake fluid absorbs water over time which degrades the effectiveness of the brake fluid. Replace brake fluid at the specified intervals to prevent increased stopping distance. See *Maintenance Schedule* ⇨ 312.

What to Add

Use only GM approved DOT 4 brake fluid from a clean, sealed container. See *Recommended Fluids and Lubricants* ⇨ 321.

Warning

The wrong or contaminated brake fluid could result in damage to the brake system. This could result in the loss of braking leading to a possible injury. Always use the proper GM approved brake fluid.

Caution

If brake fluid is spilled on the vehicle's painted surfaces, the paint finish can be damaged. Immediately wash off any painted surface.

Battery - North America

The original equipment battery is maintenance free. Do not remove the cap and do not add fluid.

Refer to the replacement number on the original battery label when a new battery is needed. For battery replacement, see your dealer.

Warning

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. **WASH HANDS AFTER HANDLING.** For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

See *California Proposition 65 Warning* ⇨ 219 and the back cover.

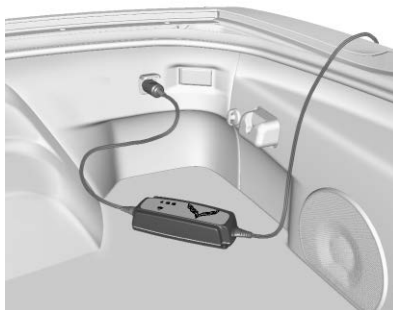
Vehicle Storage**Warning**

Batteries have acid that can burn you and gas that can explode. You can be badly hurt if you are

(Continued)

Warning (Continued)

not careful. See *Jump Starting - North America* ⇨ 295 for tips on working around a battery without getting hurt.



Some vehicles have a battery maintainer package. Follow the instructions provided with the battery maintainer package to keep the battery charged when the vehicle is not in use. Plug the battery maintainer into the rear

accessory power outlet only. The front power outlet turns off after the ignition is off.

For vehicles without a battery maintainer, see the following information:

Infrequent Usage: Remove the black, negative (-) cable from the battery to keep the battery from running down.

See “Window Indexing” under *Power Windows* ⇨ 46.

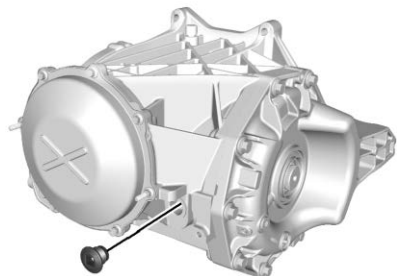
Extended Storage: It is recommended that the battery maintainer package be used. However, if not, remove the black, negative (-) cable from the battery. All vehicle memory settings will need to be reset when battery power is restored.

Rear Axle**When to Check Lubricant**

It is not necessary to regularly check rear axle fluid unless a leak is suspected or an unusual noise is

heard. A fluid loss could indicate a problem. Have it inspected and repaired.

How to Check Lubricant



To get an accurate reading, the vehicle should be on a level surface.

The fluid level should be at or within 13 mm (0.5 in) of the bottom of the fill plug hole threads. If it is at this level, no additional fluid is needed. If the fluid level is below 13 mm (0.5 in), add fluid until it is above this level.

What to Use

To add lubricant when the level is low or to completely refill after draining, see *Recommended Fluids and Lubricants* ⇨ 321. Then fill to within 13 mm (0.5 in) of the bottom of the fill plug hole threads with the required lubricant.

Starter Switch Check

Warning

When you are doing this inspection, the vehicle could move suddenly. If the vehicle moves, you or others could be injured.

1. Before starting this check, be sure there is enough room around the vehicle.
2. Firmly apply both the parking brake and the regular brake. See *Electric Parking Brake* ⇨ 195.

Do not use the accelerator pedal, and be ready to turn off the engine immediately if it starts.

3. For automatic transmission vehicles, try to start the engine in each gear. The vehicle should start only in P (Park) or N (Neutral). If the vehicle starts in any other position, contact your dealer for service.

For manual transmission vehicles, put the shift lever in Neutral, push the clutch pedal down halfway, and try to start the engine. The vehicle should start only when the clutch pedal is pushed down all the way to the floor. If the vehicle starts when the clutch pedal is not pushed all the way down, contact your dealer for service.

Park Brake and P (Park) Mechanism Check

Warning

When you are doing this check, the vehicle could begin to move. You or others could be injured and property could be damaged. Make sure there is room in front of the vehicle in case it begins to roll. Be ready to apply the regular brake at once should the vehicle begin to move.

Park on a fairly steep hill, with the vehicle facing downhill. Keeping your foot on the regular brake, set the parking brake.

- To check the parking brake's holding ability: With the engine running and the transmission in N (Neutral), slowly remove foot pressure from the regular brake pedal. Do this until the vehicle is held by the parking brake only.

- To check the P (Park) mechanism's holding ability: With the engine running, shift to P (Park). Then release the parking brake followed by the regular brake.

Contact your dealer if service is required.

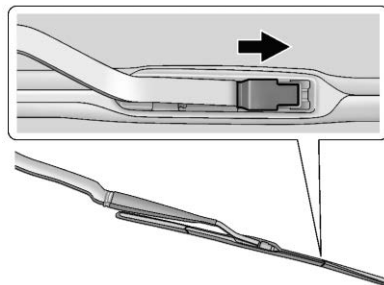
Wiper Blade Replacement

Windshield wiper blades should be inspected for wear and cracking.

Replacement blades come in different types and are removed in different ways. For proper type and length, see *Maintenance Replacement Parts* ⇨ 323.

To replace the windshield wiper blade:

1. Open the hood.
2. Pull the windshield wiper assembly away from the windshield.



3. Lift up on the latch in the middle of the wiper blade where the wiper arm attaches.
4. With the latch open, pull the wiper blade down toward the windshield far enough to release it from the J-hooked end of the wiper arm.
5. Remove the wiper blade.

Caution

Allowing the wiper arm to touch the windshield when no wiper blade is installed could damage

(Continued)

Caution (Continued)

the windshield. Any damage that occurs would not be covered by the vehicle warranty. Do not allow the wiper arm to touch the windshield.

6. Reverse Steps 1–3 for wiper blade replacement.

Windshield Replacement**HUD System**

The windshield is part of the HUD system. If the windshield must be replaced, get one that is designed for HUD or the HUD image may look out of focus.

Driver Assistance Systems

If the windshield needs to be replaced and the vehicle is equipped with a front camera sensor for the Driver Assistance Systems, a GM replacement windshield is recommended. The replacement windshield must be installed

according to GM specifications for proper alignment. If it is not, these systems may not work properly, they may display messages, or they may not work at all. See your dealer for proper windshield replacement.

Gas Strut(s)

This vehicle is equipped with gas strut(s) to provide assistance in lifting and holding open the hood/trunk/liftgate system in full open position.

 Warning

If the gas struts that hold open the hood, trunk, and/or liftgate fail, you or others could be seriously injured. Take the vehicle to your dealer for service immediately. Visually inspect the gas struts for signs of wear, cracks, or other damage periodically. Check to make sure the hood/trunk/liftgate is held open with enough force. If struts are failing to hold the

(Continued)

Warning (Continued)

hood/trunk/liftgate, do not operate. Have the vehicle serviced.

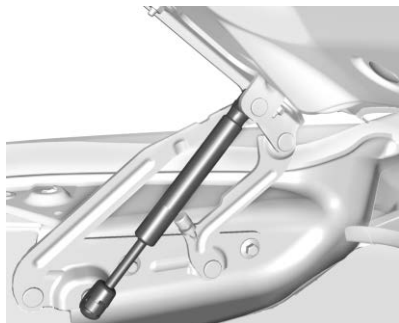
Caution

Do not apply tape or hang any objects from gas struts. Also do not push down or pull on gas struts. This may cause damage to the vehicle.

See *Maintenance Schedule* ⇨ 312.



Hood



Trunk



Liftgate

Headlamp Aiming

Headlamp aim has been preset and should need no further adjustment.

If the vehicle is damaged in a crash, the headlamp aim may be affected. If adjustment to the headlamps is necessary, see your dealer.

Bulb Replacement

For the proper type of replacement bulbs, or any bulb changing procedure not listed in this section, contact your dealer.

Caution

Do not replace incandescent bulbs with aftermarket LED replacement bulbs. This can cause damage to the vehicle electrical system.

High Intensity Discharge (HID) Lighting

Warning

The High Intensity Discharge (HID) lighting system operates at a very high voltage. If you try to service any of the system components, you could be seriously injured. Have your dealer or a qualified technician service them.

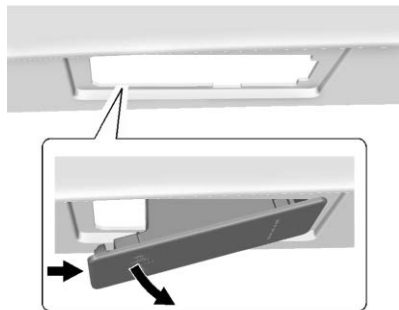
After an HID headlamp bulb has been replaced, the beam might be a slightly different shade than it was originally. This is normal.

LED Lighting

This vehicle has several LED lamps. For replacement of any LED lighting assembly, contact your dealer.

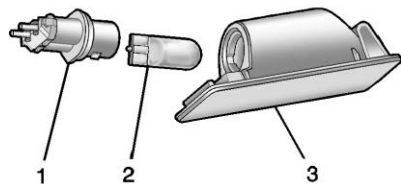
License Plate Lamp

To replace one of these bulbs:



Passenger Side Shown, Driver Side Similar

1. Push the lamp assembly toward the right.
2. Pull the lamp assembly down to remove.



3. Turn the bulb socket (1) counterclockwise to remove it from the lamp assembly (3).
4. Pull the bulb (2) straight out of the bulb socket.
5. Push the replacement bulb straight into the bulb socket and turn the bulb socket clockwise to install it into the lamp assembly.
6. Push the lamp assembly back into position until the release tab locks into place.

Electrical System

Electrical System Overload

The vehicle has fuses to protect against an electrical system overload. Fuses also protect power devices in the vehicle.

Replace a bad fuse with a new one of the identical size and rating.

If there is a problem on the road and a fuse needs to be replaced, there are some spare fuses and a fuse puller in the Instrument Panel Fuse Block. The same amperage fuse can also be borrowed. Choose some feature of the vehicle that is not needed to use and replace it as soon as possible.

Windshield Wipers

If the wiper motor overheats due to heavy snow or ice, the windshield wipers will stop until the motor cools and will then restart.

Although the circuit is protected from electrical overload, overload due to heavy snow or ice may cause wiper linkage damage. Always clear ice and heavy snow from the windshield before using the windshield wipers.

If the overload is caused by an electrical problem and not snow or ice, be sure to get it fixed.

Fuses

The wiring circuits in the vehicle are protected from short circuits by fuses. This greatly reduces the chance of fires caused by electrical problems.



Danger

Fuses and circuit breakers are marked with their ampere rating. Do not exceed the specified amperage rating when replacing fuses and circuit breakers. Use of an oversized fuse or circuit breaker can result

(Continued)

Danger (Continued)

in a vehicle fire. You and others could be seriously injured or killed.

Look at the silver-colored band inside the fuse. If the band is broken or melted, replace the fuse. Be sure to replace a bad fuse with a new one of the identical size and rating.

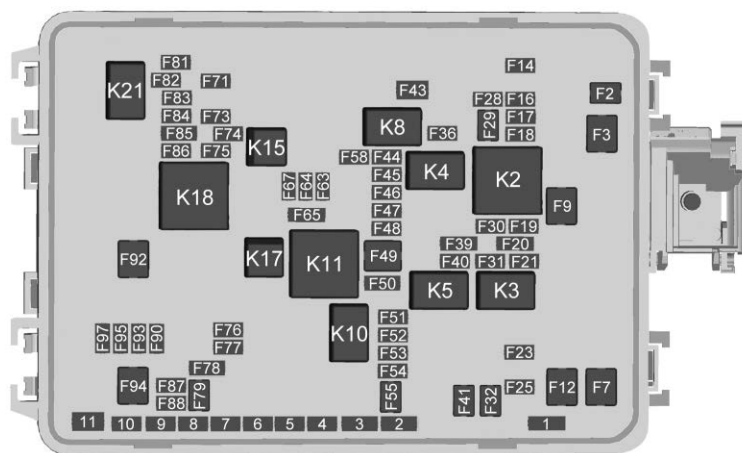
Fuses of the same amperage can be temporarily borrowed from another fuse location, if a fuse goes out. Replace the fuse as soon as possible.

Engine Compartment Fuse Block

There is one fuse block in the engine compartment on the passenger side of the vehicle. See *Engine Compartment Overview* ⇨ 225 for more information on location.

Caution

Spilling liquid on any electrical component on the vehicle may damage it. Always keep the covers on any electrical component.



The vehicle may not be equipped with all of the fuses, relays, and features shown.

Fuses	Usage
2	ECM power ignition 2/-
3	Front HVAC
7	ABS pump

Fuses	Usage
9	-/ECM power ignition
12	Transmission cooling rear fan 2
14	Heated seat module battery supply

Fuses	Usage
16	Column lock module
17	Steering tilt and telescope
18	CGM
19	- / Fuel injector control module power ignition 1
20	Integrated chassis control module automatic occupant sensing
21	Glove box door
23	Engine inside position / ECM power ignition 3
25	Body control module 6
28	HVAC controls
29	Front wiper
30	Body control module 5

Fuses	Usage
31	Heated seat module / run,crank supply
32	Starter
36	Body control module 7
39	Intrusion module / Human machine interface module
40	Steering column lock
41	ABS valves
43	- / Fuel tank zone module batt
44	Center stack
45	Auxiliary outlet
46	Radio
47	Display
48	Interior rearview mirror
49	Logistics

Fuses	Usage
50	Engine / Transmission
51	Ignition – odd
52	Ignition – even
53	Fuel pump prime / Miscellaneous powertrain loads
54	- / Fuel injector control module power ignition 2
55	Engine control module 1
58	Data link connector
63	Seat fan
64	Fuel pump power module
65	Cluster
67	Exhaust valve 1
71	Horn
73	– / Fuel tank zone module ignition
74	Headlamp wash

Fuses	Usage
75	AC clutch
76	– / Rear transmission coolant pump
77	Engine outside position
78	Engine control module 2 / Transmission control module
79	Electric parking brake
81	Continuous variable real time dampening
82	Intercooler
83	Left headlamp
84	Right headlamp
85	High-beam headlamps
86	Washer pump
87	Exhaust valve 2
88	Reverse lockout

Fuses	Usage
90	Electronic Limited slip differential 1
92	Vacuum pump
93	Transmission cooling rear fan 1
94	Electronic Limited slip differential 2
95	Transmission control module
97	Canister vent valve

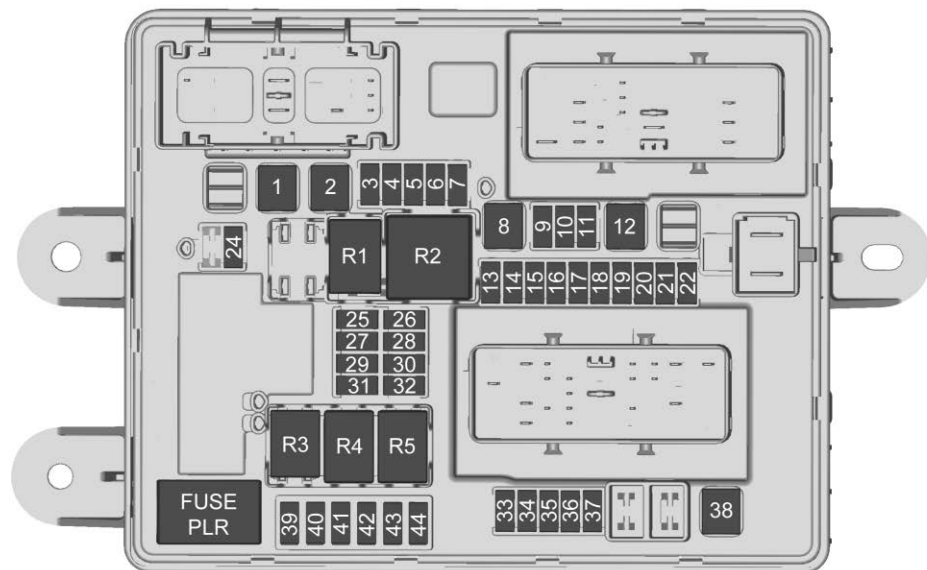
Relays	Usage
K2	– / Engine control module
K3	Starter
K4	Front wiper, Low-High
K5	Run-Crank
K8	Front wiper on off
K10	Fuel pump prime
K11	Engine control module / –

Relays	Usage
K15	Headlamp washer
K17	AC control
K18	Vacuum pump
K21	Low beam headlamps

Fuses	Usage
1	Spare
2	Spare
3	Spare
4	Spare
5	Spare
6	Spare
7	Spare
8	Spare
9	Spare
10	Spare
11	Spare

Rear Compartment Fuse Block

The rear compartment fuse block is in the rear of the vehicle, on top of the battery.



264 Vehicle Care

You can remove fuses using the fuse puller.

The vehicle may not be equipped with all of the fuses, relays, and features shown.

Fuses	Usage
1	Window
2	Driver power seat
3	Passive entry/ Passive start 2
4	Passive entry/ Passive start 1
5	Engine control module
6	Heated mirrors
7	Body control module 4
8	Rear window defogger
9	GBS
10	Body control module 2
11	Steering wheel

Fuses	Usage
12	Passenger power seat
13	–
14	Exterior rearview mirror
15	Body control module 1
16	Body control module 3
17	Sensing diagnostic module/Automatic occupant sensing
18	Logistics 2
19	Body control module 8
20	Integrated chassis control module
21	Amplifier
22	Rear accessory power outlet
24	Memory seat module/ Convertible top

Fuses	Usage
25	Theft deterrent PSM
26	Trunk release module
27	OnStar (if equipped)
28	Camera module
29	–
30	Fuel pump power module
31	Trunk release module latch
32	Battery regulated voltage control
33	–
34	Convertible top solenoid
35	–
36	Passenger window switch
37	Front accessory power outlet

Fuses	Usage

38	—
39	—
40	—
41	—
42	—
43	—
44	—

Relays	Usage

R1	—
R2	Rear window defogger
R3	—
R4	Front accessory power outlet
R5	Theft (door lock security)

Wheels and Tires

Tires

Every new GM vehicle has high-quality tires made by a leading tire manufacturer. See the warranty manual for information regarding the tire warranty and where to get service. For additional information refer to the tire manufacturer.

Warning

- Poorly maintained and improperly used tires are dangerous.
- Overloading the tires can cause overheating as a result of too much flexing. There could be a blowout and a serious crash. See *Vehicle Load Limits* ⇨ 175.

(Continued)

Warning (Continued)

- Underinflated tires pose the same danger as overloaded tires. The resulting crash could cause serious injury. Check all tires frequently to maintain the recommended pressure. Tire pressure should be checked when the tires are cold.
- Overinflated tires are more likely to be cut, punctured, or broken by a sudden impact — such as when hitting a pothole. Keep tires at the recommended pressure.
- Worn or old tires can cause a crash. If the tread is badly worn, replace them.

(Continued)

Warning (Continued)

- Replace any tires that have been damaged by impacts with potholes, curbs, etc.
- Improperly repaired tires can cause a crash. Only the dealer or an authorized tire service center should repair, replace, dismount, and mount the tires.
- Do not spin the tires in excess of 56 km/h (35 mph) on slippery surfaces such as snow, mud, ice, etc. Excessive spinning may cause the tires to explode.

See *Tire Pressure for High-Speed Operation* ⇨ 275 for inflation pressure adjustment for high-speed driving.

Winter Tires

This vehicle was not originally equipped with winter tires. Winter tires are designed for increased traction on snow and ice-covered roads. Consider installing winter tires on the vehicle if frequent driving on ice or snow covered roads is expected. See your dealer for details regarding winter tire availability and proper tire selection. Also, see *Buying New Tires* ⇨ 280.

With winter tires, there may be decreased dry road traction, increased road noise, and shorter tread life. After changing to winter tires, be alert for changes in vehicle handling and braking.

If using winter tires:

- Use tires of the same brand and tread type on all four wheel positions.
- Use only radial ply tires of the same size, load range, and speed rating as the original equipment tires.

Winter tires with the same speed rating as the original equipment tires may not be available for H, V, W, Y, and ZR speed rated tires. If winter tires with a lower speed rating are chosen, never exceed the tire's maximum speed capability.

Run-Flat Tires

This vehicle, when new, had run-flat tires. There is no spare tire, no tire changing equipment, and no place to store a tire in the vehicle.

The vehicle also has a Tire Pressure Monitor System (TPMS) that indicates a loss of tire pressure in any of the tires.

**Warning**

If the low tire warning light displays on the instrument cluster, the handling capabilities will be reduced during severe maneuvers. Driving too fast could cause loss of control and you or others could be injured. Do not

(Continued)

Warning (Continued)

drive over 80 km/h (50 mph) when the low tire warning light is displayed. Drive cautiously and check the tire pressures as soon as possible.

Run-flat tires can be driven on with no air pressure. There is no need to stop on the side of the road to change the tire. Continue driving; however, do not drive too far or too fast. Driving on the tire may not be possible if there is permanent damage. To prevent permanent damage, the tire can be driven with no air pressure for up to 80 km (50 mi) at speeds slower than 80 km/h (50 mph). As soon as possible, contact the nearest authorized GM or run-flat servicing facility for inspection and repair or replacement.

When driving on a deflated run-flat tire, avoid potholes and other road hazards that could damage the tire and/or wheel beyond repair. When a

tire has been damaged, or if driven any distance while deflated, check with an authorized run-flat tire service center to determine whether the tire can be repaired or should be replaced. To maintain the run-flat feature, all replacement tires must be run-flat tires.

To locate the nearest GM or run-flat servicing facility, call Customer Assistance.

The valve stems on run-flat tires have sensors that are part of the TPMS. See *Tire Pressure Monitor System* ⇨ 275. These sensors contain batteries that are designed to last for 10 years under normal driving conditions. See your dealer for wheel or sensor replacement.

Caution

Using liquid sealants can damage the tire valves and tire pressure monitor sensors in the run-flat tires. This damage is not covered
(Continued)

Caution (Continued)

by the vehicle warranty. Do not use liquid sealants in run-flat tires.

Low-Profile Tires**Low-Profile Performance Tires**

The original equipment tires on this vehicle are classified as low-profile performance tires. These tires are designed for very responsive driving on wet or dry pavement; however, they may produce more road noise and tend to wear faster.

Caution

Low-profile tires are more susceptible to damage from road hazards or curb impact than standard profile tires. Tire and/or wheel assembly damage can occur when coming into contact
(Continued)

Caution (Continued)

with road hazards like potholes, or sharp edged objects, or when sliding into a curb. The warranty does not cover this type of damage. Keep tires set to the correct inflation pressure and when possible, avoid contact with curbs, potholes, and other road hazards.

Competition Oriented Tires

This vehicle may come with P285/30ZR19 and P335/25ZR20 Michelin PS CUP2 competition oriented tires that are DOT approved for street use. Competition oriented tires use a special tread pattern and compound that provide more grip than normal road tires. The minimum tread depth will be reached earlier than typical tires, resulting in reduced tire life. This special tread pattern and compound will have decreased performance in

cold climates, heavy rain, and standing water. It is recommended that winter tires be installed on the vehicle when driving at temperatures below approximately 10 °C (50 °F) or on ice or snow covered roads. See *Winter Tires* ⇨ 266.

 Warning

Driving on wet roads, in heavy rain, or through standing water with competition oriented tires may cause hydroplaning and loss of control. Use extreme caution and drive slowly on wet roads.

 Warning

Driving with competition oriented tires on snow, ice, or cold road surfaces can cause loss of control or a crash. Competition oriented tires are summer season tires and are not intended to be driven on

(Continued)

Warning (Continued)

snow, ice, or road surfaces below 10 °C (50 °F). Do not drive a vehicle with competition oriented tires in these conditions.

Caution

Competition oriented tires have rubber compounds that lose flexibility and may develop surface cracks in the tread area at temperatures below -7 °C (20 °F). Always store competition oriented tires indoors and at temperatures above -7 °C (20 °F) when not in use. If the tires have been subjected to -7 °C (20 °F) or less, let them warm up in a heated space to at least 10 °C (50 °F) for 24 hours or more before being installed or driving a vehicle on which they are installed. Do not apply heat or

(Continued)

Caution (Continued)

blow heated air directly on the tires. Always inspect tires before use. See *Tire Inspection* ⇨ 278.

Summer Tires**High Performance Summer Tires**

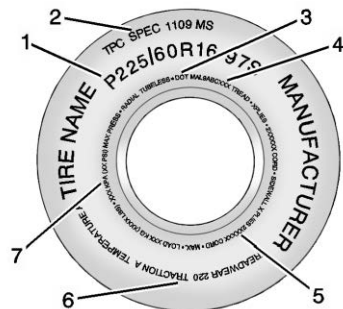
This vehicle may come with high performance summer tires. These tires have a special tread and compound that are optimized for maximum dry and wet road performance. This special tread and compound will have decreased performance in cold climates, and on ice and snow. It is recommended that winter tires be installed on the vehicle if frequent driving at temperatures below approximately 5 °C (40 °F) or on ice or snow covered roads is expected. See *Winter Tires* ⇨ 266.

Caution

High performance summer tires have rubber compounds that lose flexibility and may develop surface cracks in the tread area at temperatures below -7 °C (20 °F). Always store high performance summer tires indoors and at temperatures above -7 °C (20 °F) when not in use. If the tires have been subjected to -7 °C (20 °F) or less, let them warm up in a heated space to at least 5 °C (40 °F) for 24 hours or more before being installed or driving a vehicle on which they are installed. Do not apply heat or blow heated air directly on the tires. Always inspect tires before use. See *Tire Inspection* ⇨ 278.

Tire Sidewall Labeling

Useful information about a tire is molded into its sidewall. The examples show a typical passenger tire sidewall.

**Passenger (P-Metric) Tire Example**

(1) Tire Size : The tire size is a combination of letters and numbers used to define a particular tire's width, height, aspect ratio, construction type, and service description. See the "Tire Size" illustration later in this section for more detail.

(2) TPC Spec (Tire Performance Criteria Specification)

: Original equipment tires designed to GM's specific tire performance criteria have a TPC specification code molded onto the sidewall. GM's TPC specifications meet or exceed all federal safety guidelines.

(3) DOT (Department of Transportation)

: The Department of Transportation (DOT) code indicates that the tire is in compliance with the U.S. Department of Transportation Motor Vehicle Safety Standards.

DOT Tire Date of

Manufacture : The last four digits of the TIN indicate the tire manufactured date. The first two digits represent the week (01-52) and the last two digits, the year. For example, the third

week of the year 2010 would have a four-digit DOT date of 0310.

(4) Tire Identification Number (TIN)

: The letters and numbers following the DOT code are the Tire Identification Number (TIN). The TIN shows the manufacturer and plant code, tire size, and date the tire was manufactured. The TIN is molded onto both sides of the tire, although only one side may have the date of manufacture.

(5) Tire Ply Material : The type of cord and number of plies in the sidewall and under the tread.

(6) Uniform Tire Quality

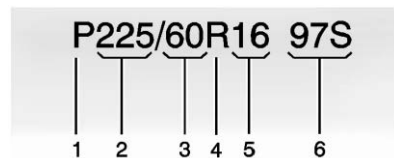
Grading (UTQG) : Tire manufacturers are required to grade tires based on three performance factors: treadwear, traction, and temperature resistance. For more information see *Uniform Tire Quality Grading* ⇨ 282.

(7) Maximum Cold Inflation

Load Limit : Maximum load that can be carried and the maximum pressure needed to support that load.

Tire Designations**Tire Size**

The following is an example of a typical passenger vehicle tire size.

**(1) Passenger (P-Metric) Tire :**

The United States version of a metric tire sizing system. The letter P as the first character in the tire size means a passenger vehicle tire engineered to standards set by the U.S. Tire and Rim Association.

(2) Tire Width : The three-digit number indicates the tire section width in millimeters from sidewall to sidewall.

(3) Aspect Ratio : A two-digit number that indicates the tire height-to-width measurements. For example, if the tire size aspect ratio is 60, as shown in item 3 of the illustration, it would mean that the tire's sidewall is 60 percent as high as it is wide.

(4) Construction Code : A letter code is used to indicate the type of ply construction in the tire. The letter R means radial ply construction; the letter D means diagonal or bias ply construction; and the letter B means belted-bias ply construction.

(5) Rim Diameter : Diameter of the wheel in inches.

(6) Service Description : These characters represent the load index and speed rating of the

tire. The load index represents the load carrying capacity a tire is certified to carry. The speed rating is the maximum speed a tire is certified to carry a load.

Tire Terminology and Definitions

Air Pressure : The amount of air inside the tire pressing outward on each square inch of the tire. Air pressure is expressed in kPa (kilopascal) or psi (pounds per square inch).

Accessory Weight : The combined weight of optional accessories. Some examples of optional accessories are automatic transmission, power windows, power seats, and air conditioning.

Aspect Ratio : The relationship of a tire's height to its width.

Belt : A rubber coated layer of cords between the plies and the tread. Cords may be made from steel or other reinforcing materials.

Bead : The tire bead contains steel wires wrapped by steel cords that hold the tire onto the rim.

Bias Ply Tire : A pneumatic tire in which the plies are laid at alternate angles less than 90 degrees to the centerline of the tread.

Cold Tire Pressure : The amount of air pressure in a tire, measured in kPa (kilopascal) or psi (pounds per square inch) before a tire has built up heat from driving. See *Tire Pressure* ⇨ 274.

Curb Weight : The weight of a motor vehicle with standard and optional equipment including the

maximum capacity of fuel, oil, and coolant, but without passengers and cargo.

DOT Markings : A code molded into the sidewall of a tire signifying that the tire is in compliance with the U.S. Department of Transportation (DOT) Motor Vehicle Safety Standards. The DOT code includes the Tire Identification Number (TIN), an alphanumeric designator which can also identify the tire manufacturer, production plant, brand, and date of production.

GVWR : Gross Vehicle Weight Rating. See *Vehicle Load Limits* ⇨ 175.

GAWR FRT : Gross Axle Weight Rating for the front axle. See *Vehicle Load Limits* ⇨ 175.

GAWR RR : Gross Axle Weight Rating for the rear axle. See *Vehicle Load Limits* ⇨ 175.

Intended Outboard Sidewall : The side of an asymmetrical tire that must always face outward when mounted on a vehicle.

Kilopascal (kPa) : The metric unit for air pressure.

Light Truck (LT-Metric) Tire : A tire used on light duty trucks and some multipurpose passenger vehicles.

Load Index : An assigned number ranging from 1 to 279 that corresponds to the load carrying capacity of a tire.

Maximum Inflation Pressure : The maximum air pressure to which a cold tire can be inflated. The maximum air pressure is molded onto the sidewall.

Maximum Load Rating : The load rating for a tire at the maximum permissible inflation pressure for that tire.

Maximum Loaded Vehicle Weight : The sum of curb weight, accessory weight, vehicle capacity weight, and production options weight.

Normal Occupant Weight : The number of occupants a vehicle is designed to seat multiplied by 68 kg (150 lb). See *Vehicle Load Limits* ⇨ 175.

Occupant Distribution : Designated seating positions.

Outward Facing Sidewall : The side of an asymmetrical tire that has a particular side that faces outward when mounted on a vehicle. The side of the tire that contains a whitewall, bears white lettering, or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same moldings on the other sidewall of the tire.

Passenger (P-Metric) Tire : A tire used on passenger cars and some light duty trucks and multipurpose vehicles.

Recommended Inflation

Pressure : Vehicle manufacturer's recommended tire inflation pressure as shown on the tire placard.

See *Tire Pressure* ⇨ 274 and *Vehicle Load Limits* ⇨ 175.

Radial Ply Tire : A pneumatic tire in which the ply cords that extend to the beads are laid at 90 degrees to the centerline of the tread.

Rim : A metal support for a tire and upon which the tire beads are seated.

Sidewall : The portion of a tire between the tread and the bead.

Speed Rating : An alphanumeric code assigned to a tire indicating the maximum speed at which a tire can operate.

Traction : The friction between the tire and the road surface. The amount of grip provided.

Tread : The portion of a tire that comes into contact with the road.

Treadwear Indicators : Narrow bands, sometimes called wear bars, that show across the tread of a tire when only 1.6 mm (1/16 in) of tread remains. See *When It Is Time for New Tires* ⇨ 280.

UTQGS (Uniform Tire Quality Grading Standards) : A tire information system that provides consumers with ratings for a tire's traction, temperature, and treadwear. Ratings are determined by tire manufacturers using

government testing procedures. The ratings are molded into the sidewall of the tire. See *Uniform Tire Quality Grading* ⇨ 282.

Vehicle Capacity Weight : The number of designated seating positions multiplied by 68 kg (150 lb) plus the rated cargo load. See *Vehicle Load Limits* ⇨ 175.

Vehicle Maximum Load on the Tire : Load on an individual tire due to curb weight, accessory weight, occupant weight, and cargo weight.

Vehicle Placard : A label permanently attached to a vehicle showing the vehicle capacity weight and the original equipment tire size and recommended inflation pressure. See "Tire and Loading Information Label" under *Vehicle Load Limits* ⇨ 175.

Tire Pressure

Tires need the correct amount of air pressure to operate effectively.

Warning

Neither tire underinflation nor overinflation is good.

Underinflated tires, or tires that do not have enough air, can result in:

- Tire overloading and overheating which could lead to a blowout.
- Premature or irregular wear.
- Poor handling.
- Reduced fuel economy.

Overinflated tires, or tires that have too much air, can result in:

- Unusual wear.

(Continued)

Warning (Continued)

- Poor handling.
- Rough ride.
- Needless damage from road hazards.

The Tire and Loading Information label on the vehicle indicates the original equipment tires and the correct cold tire inflation pressures. The recommended pressure is the minimum air pressure needed to support the vehicle's maximum load carrying capacity. See *Vehicle Load Limits* ⇨ 175.

How the vehicle is loaded affects vehicle handling and ride comfort. Never load the vehicle with more weight than it was designed to carry.

When to Check

Check the pressure of the tires once a month or more.

How to Check

Use a good quality pocket-type gauge to check the tire pressure. Proper tire inflation cannot be determined by looking at the tire. Check the tire inflation pressure when the tires are cold, meaning the vehicle has not been driven for at least three hours or no more than 1.6 km (1 mi).

Remove the valve cap from the tire valve stem. Press the tire gauge firmly onto the valve to get the pressure measurement. If the cold tire inflation pressure matches the recommended pressure on the Tire and Loading Information label, no further adjustment is necessary.

If the inflation pressure is low, add air until the recommended pressure is reached. If the inflation pressure is high, press on the metal stem in the center of the tire valve to release air. Re-check the tire pressure with the tire gauge.

Put the valve caps back on the valve stems to keep out dirt and moisture and prevent leaks. Use only valve caps designed for the vehicle by GM. TPMS sensors could be damaged and would not be covered by the vehicle warranty.

Tire Pressure for High-Speed Operation

Warning

Driving at high speeds, 160 km/h (100 mph) or higher, puts additional strain on tires.

(Continued)

Warning (Continued)

Sustained high-speed driving causes excessive heat buildup and can cause sudden tire failure. This could cause a crash, and you or others could be killed. Some high-speed rated tires require inflation pressure adjustment for high-speed operation. When speed limits and road conditions allow the vehicle to be driven at high speeds, make sure the tires are rated for high-speed operation, are in excellent condition, and are set to the correct cold tire inflation pressure for the vehicle load.

The tires require inflation pressure adjustment when driving the vehicle at speeds of 160 km/h (100 mph) or higher, where it is legal. Set the cold inflation pressure to the maximum inflation pressure shown on the tire sidewall, or 265 kPa (38 psi), whichever is lower. See the example following. Return the tires

to the recommended cold tire inflation pressure when high-speed driving has ended. See *Vehicle Load Limits* ⇨ 175.

Example:

The maximum load and inflation pressure molded on the tire sidewall, in small letters, near the rim flange. It will read something like this: Maximum load 690 kg (1521 lbs) 300 kPa (44 psi) Max. Press.

For this example, set the inflation pressure for high-speed driving at 265 kPa (38 psi).

Racing or other competitive driving may affect the warranty coverage of the vehicle. See the warranty booklet for more information.

Tire Pressure Monitor System

The Tire Pressure Monitor System (TPMS) uses radio and sensor technology to check tire pressure levels. The TPMS sensors monitor

the air pressure in your tires and transmit tire pressure readings to a receiver located in the vehicle.

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated.

Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can

lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire

pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

See *Tire Pressure Monitor Operation* ⇨ 276.

See *Radio Frequency Statement* ⇨ 340.

Tire Pressure Monitor Operation

This vehicle may have a Tire Pressure Monitor System (TPMS). The TPMS is designed to warn the driver when a low tire pressure condition exists. TPMS sensors are mounted onto each tire and wheel assembly on your vehicle. The TPMS sensors monitor the air

pressure in the tires and transmit the tire pressure readings to a receiver located in the vehicle.



When a low tire pressure condition is detected, the TPMS illuminates the low tire pressure warning light, located in the instrument cluster. If the warning light comes on, stop as soon as possible and inflate the tires to the recommended pressure shown on the tire loading information label. See *Vehicle Load Limits* ⇨ 175.

A message to check the pressure in a specific tire displays in the Driver Information Center (DIC). The low tire pressure warning light and the DIC warning message appear at each ignition cycle until the tires are inflated to the correct inflation pressure. Using the DIC, tire pressure levels can be viewed. For

additional information and details about the DIC operation and displays see *Driver Information Center (DIC)* ⇨ 121.

The low tire pressure warning light may come on in cool weather when the vehicle is first started, and then turn off as the vehicle is driven. This could be an early indicator that the air pressure is getting low and needs to be inflated to the proper pressure.

A Tire and Loading Information label shows the size of the original equipment tires and the correct inflation pressure for the tires when they are cold. See *Vehicle Load Limits* ⇨ 175, for an example of the Tire and Loading Information label and its location. Also see *Tire Pressure* ⇨ 274 for additional information.

The TPMS can warn about a low tire pressure condition but it does not replace normal tire maintenance. See *Tire Inspection* ⇨ 278, *Tire Rotation* ⇨ 279, *When It Is Time for New Tires* ⇨ 280, and *Tires* ⇨ 265.

Caution

Tire sealant materials are not all the same. A non-approved tire sealant could damage the TPMS sensors. TPMS sensor damage caused by using an incorrect tire sealant is not covered by the vehicle warranty. Always use only the GM approved tire sealant available through your dealer or included in the vehicle.

Factory-installed Tire Inflator Kits use a GM approved liquid tire sealant. Using non-approved tire sealants could damage the TPMS sensors. See *Tire Sealant and Compressor Kit* ⇨ 287 for information regarding the inflator kit materials and instructions.

TPMS Malfunction Light and Message

The TPMS will not function properly if one or more of the TPMS sensors are missing or inoperable. When the system detects a malfunction, the

low tire pressure warning light flashes for about one minute and then stays on for the remainder of the ignition cycle. A DIC warning message also displays. The malfunction light and DIC warning message come on at each ignition cycle until the problem is corrected. Some of the conditions that can cause these to come on are:

- The TPMS sensor matching process was not done or not completed successfully. The malfunction light and the DIC message should go off after successfully completing the sensor matching process.
- One or more TPMS sensors are missing or damaged. The malfunction light and the DIC message should go off when the TPMS sensors are installed and the sensor matching process is performed successfully.
- Replacement tires or wheels do not match the original equipment tires or wheels. Tires and wheels other than those recommended

could prevent the TPMS from functioning properly. See *Buying New Tires* ⇨ 280.

- Operating electronic devices or being near facilities using radio wave frequencies similar to the TPMS could cause the TPMS sensors to malfunction.

If the TPMS is not functioning properly, it cannot detect or signal a low tire pressure condition. See your dealer for service if the TPMS malfunction light and DIC message come on and stays on.

TPMS Sensor Matching Process — Auto Learn Function

Each TPMS sensor has a unique identification code. The identification code needs to be matched to a new tire/wheel position after rotating the tires or replacing one or more of the TPMS sensors. When a tire is installed, the vehicle must be stationary for about 20 minutes before the system recalculates. The following relearn process takes up to 10 minutes, driving at a minimum

speed of 19 km/h (12 mph).

A dash (-) or pressure value will display in the DIC. See *Driver Information Center (DIC)* ⇨ 121. A warning message displays in the DIC if a problem occurs during the relearn process.

Tire Inspection

We recommend that the tires, including the spare tire, if the vehicle has one, be inspected for signs of wear or damage at least once a month.

Replace the tire if:

- The indicators at three or more places around the tire can be seen.
- There is cord or fabric showing through the tire's rubber.
- The tread or sidewall is cracked, cut, or snagged deep enough to show cord or fabric.

- The tire has a bump, bulge, or split.
- The tire has a puncture, cut, or other damage that cannot be repaired well because of the size or location of the damage.

Tire Rotation

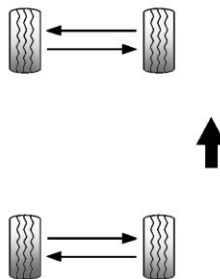
The tires should be rotated every 12 000 km/7,500 mi. See *Maintenance Schedule* ⇨ 312.

Tires are rotated to achieve uniform wear for all tires. The first rotation is the most important.

Anytime unusual wear is noticed, rotate the tires as soon as possible, check for proper tire inflation pressure, and check for damaged tires or wheels. If the unusual wear continues after the rotation, check the wheel alignment.

See *When It Is Time for New Tires* ⇨ 280 and *Wheel Replacement* ⇨ 284.

Different tire sizes should not be rotated front to rear.



Use this rotation pattern if the vehicle has different size tires on the front and rear.

Adjust the front and rear tires to the recommended inflation pressure on the Tire and Loading Information label after

the tires have been rotated. See *Tire Pressure* ⇨ 274 and *Vehicle Load Limits* ⇨ 175.

Reset the Tire Pressure Monitor System. See *Tire Pressure Monitor Operation* ⇨ 276.

Check that all wheel nuts are properly tightened. See “Wheel Nut Torque” under *Capacities and Specifications* ⇨ 326.

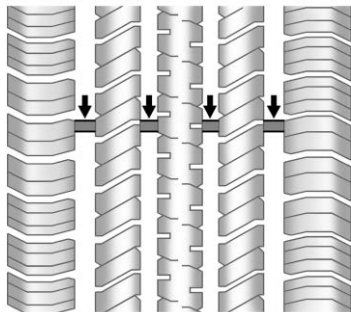
Warning

Rust or dirt on a wheel, or on the parts to which it is fastened, can make wheel nuts become loose after time. The wheel could come off and cause a crash. When changing a wheel, remove any rust or dirt from places where the wheel attaches to the vehicle. In an emergency, a cloth or a paper towel can be used; however, use a scraper or wire brush later to remove all rust or dirt.

Lightly coat the center of the wheel hub with wheel bearing grease after a wheel change or tire rotation to prevent corrosion or rust build-up. Do not get grease on the flat wheel mounting surface or on the wheel nuts or bolts.

When It Is Time for New Tires

Factors such as maintenance, temperatures, driving speeds, vehicle loading, and road conditions affect the wear rate of the tires.



Treadwear indicators are one way to tell when it is time for new tires. Treadwear indicators appear when the tires have only 1.6 mm (1/16 in) or less of tread remaining. See *Tire Inspection* ⇨ 278 and *Tire Rotation* ⇨ 279.

The rubber in tires ages over time. This also applies to the spare tire, if the vehicle has one, even if it is never used. Multiple factors including temperatures, loading conditions, and inflation pressure maintenance affect how fast aging takes place. GM recommends that tires, including the spare if equipped, be replaced after six years, regardless of tread wear. The tire manufacture date is the last four digits of the DOT Tire Identification Number (TIN) which is molded into one side of the tire sidewall. The first two digits represent the week (01–52) and the last two digits, the year. For example, the third week of the year 2010 would have a four-digit DOT date of 0310.

Vehicle Storage

Tires age when stored normally mounted on a parked vehicle. Park a vehicle that will be stored for at least a month in a cool, dry, clean area away from direct sunlight to slow aging. This area should be free of grease, gasoline, or other substances that can deteriorate rubber.

Parking for an extended period can cause flat spots on the tires that may result in vibrations while driving. When storing a vehicle for at least a month, remove the tires or raise the vehicle to reduce the weight from the tires.

Buying New Tires

GM has developed and matched specific tires for the vehicle. The original equipment tires installed were designed to meet General Motors Tire Performance Criteria Specification (TPC Spec) system rating. When replacement tires are needed,

GM strongly recommends buying tires with the same TPC Spec rating.

GM's exclusive TPC Spec system considers over a dozen critical specifications that impact the overall performance of the vehicle, including brake system performance, ride and handling, traction control, and tire pressure monitoring performance. GM's TPC Spec number is molded onto the tire's sidewall near the tire size. If the tires have an all-season tread design, the TPC Spec number will be followed by MS for mud and snow. See *Tire Sidewall Labeling* ⇨ 269, for additional information.

GM recommends replacing worn tires in complete sets of four. Uniform tread depth on all tires will help to maintain the performance of the vehicle. Braking and handling

performance may be adversely affected if all the tires are not replaced at the same time. If proper rotation and maintenance have been done, all four tires should wear out at about the same time. See *Tire Rotation* ⇨ 279 for information on proper tire rotation. However, if it is necessary to replace only one axle set of worn tires, place the new tires on the rear axle.

Winter tires with the same speed rating as the original equipment tires may not be available for H, V, W, and ZR speed rated tires. Never exceed the winter tire's maximum speed capability when using winter tires with a lower speed rating.

Warning

Tires could explode during improper service. Attempting to mount or dismount a tire

(Continued)

Warning (Continued)

could cause injury or death. Only your dealer or authorized tire service center should mount or dismount the tires.

Warning

Mixing tires of different sizes (other than those originally installed on the vehicle), brands, or types may cause loss of control of the vehicle, resulting in a crash or other vehicle damage. Use the correct size, brand, and type of tire on all four wheels.

Warning

Using bias-ply tires on the vehicle may cause the wheel rim flanges to develop cracks

(Continued)

Warning (Continued)

after many miles of driving. A tire and/or wheel could fail suddenly and cause a crash. Use only radial-ply tires with the wheels on the vehicle.

If the vehicle tires must be replaced with a tire that does not have a TPC Spec number, make sure they are the same size, load range, speed rating, and construction (radial) as the original tires.

Vehicles that have a tire pressure monitoring system could give an inaccurate low-pressure warning if non-TPC Spec rated tires are installed. See *Tire Pressure Monitor Operation* ⇨ 276.

The Tire and Loading Information label indicates the original equipment tires on the vehicle. See *Vehicle Load Limits* ⇨ 175.

Different Size Tires and Wheels

If wheels or tires are installed that are a different size than the original equipment wheels and tires, vehicle performance, including its braking, ride and handling characteristics, stability, and resistance to rollover may be affected. If the vehicle has electronic systems such as antilock brakes, rollover airbags, traction control, electronic stability control, or All-Wheel Drive, the performance of these systems can also be affected.

⚠ Warning

If different sized wheels are used, there may not be an acceptable level of performance and safety if
(Continued)

Warning (Continued)

tires not recommended for those wheels are selected. This increases the chance of a crash and serious injury. Only use GM specific wheel and tire systems developed for the vehicle, and have them properly installed by a GM certified technician.

See *Buying New Tires* ⇨ 280 and *Accessories and Modifications* ⇨ 220.

Uniform Tire Quality Grading

The following information relates to the system developed by the United States National Highway Traffic Safety Administration (NHTSA), which grades tires by treadwear, traction, and temperature performance. This applies only to vehicles sold in the United States. The grades are molded on the sidewalls of

most passenger car tires. The Uniform Tire Quality Grading (UTQG) system does not apply to deep tread, winter tires, compact spare tires, tires with nominal rim diameters of 10 to 12 inches (25 to 30 cm), or to some limited-production tires.

While the tires available on General Motors passenger cars and light trucks may vary with respect to these grades, they must also conform to federal safety requirements and additional General Motors Tire Performance Criteria (TPC) standards.

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

Treadwear 200 Traction AA Temperature A

All Passenger Car Tires Must Conform to Federal Safety Requirements In Addition To These Grades.

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1½) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction

The traction grades, from highest to lowest, are AA, A, B, and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance. Warning: The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor

laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law. Warning: The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

Wheel Alignment and Tire Balance

The tires and wheels were aligned and balanced at the factory to provide the longest tire life and best overall performance. Adjustments to wheel alignment and tire balancing are not necessary on a regular basis. Consider an alignment check if there is unusual tire wear. If the vehicle is vibrating when driving on a smooth road, the tires and wheels may need to be rebalanced. See your dealer for proper diagnosis.

Road Imperfections/Crown Effects

The vehicle's precise steering and handling make it very responsive to road surface feedback. A slight pull may be felt in the steering depending on the crown of the road and/or other road surface variations such as troughs or ruts. This is normal and the vehicle does not require service.

Tire Chatter/Hop

When driving at slow speeds and in very tight turns, the vehicle may have tire chatter/hop. This is normal and the vehicle does not require service.

Wheel Replacement

Replace any wheel that is bent, cracked, or badly rusted or corroded. If wheel nuts keep coming loose, the wheel, wheel bolts, and wheel nuts should be replaced. If the wheel leaks air, replace it. Some aluminum wheels can be repaired. See your dealer if any of these conditions exist.

Your dealer will know the kind of wheel that is needed.

Each new wheel should have the same load-carrying capacity, diameter, width, offset, and be mounted the same way as the one it replaces.

Replace wheels, wheel bolts, or wheel nuts with new GM original equipment parts.

 Warning

Using the wrong replacement wheels, wheel bolts, or wheel nuts can be dangerous. It could affect the braking and handling of the vehicle. Tires can lose air, and cause loss of control, causing a crash. Always use the correct wheel, wheel bolts, and wheel nuts for replacement.

 Warning

Replacing a wheel with a used one is dangerous. How it has been used or how far it has been driven may be unknown. It could fail suddenly and cause a crash. When replacing wheels, use a new GM original equipment wheel.

Caution

The wrong wheel can also cause problems with bearing life, brake cooling, speedometer or odometer calibration, headlamp aim, bumper height, vehicle ground clearance, and tire clearance to the body and chassis.

Tightening Wheel Lug Nuts **Warning**

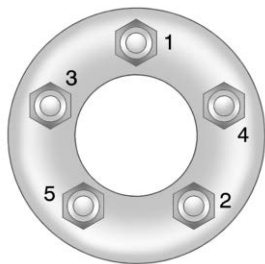
Never use oil or grease on studs or the threads of the wheel nuts. The wheel nuts might come loose and the wheel could fall off, causing a crash.

 Warning

Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose and even come off. This could lead to a crash. Be sure to use the correct wheel nuts. If you have to replace them, be sure to get new GM original equipment wheel nuts.

Caution

Improperly tightened wheel nuts can lead to brake pulsation and rotor damage. To avoid expensive brake repairs, evenly tighten the wheel nuts in the proper sequence and to the proper torque specification.



Tighten the wheel lug nuts firmly in a crisscross sequence. See *Capacities and Specifications* ⇨ 326.

Tire Chains

Warning

Do not use tire chains. There is not enough clearance. Tire chains used on a vehicle without the proper amount of clearance can cause damage to the brakes, suspension, or other vehicle parts. The area damaged by the

(Continued)

Warning (Continued)

tire chains could cause loss of control and a crash. Use another type of traction device only if its manufacturer recommends it for the vehicle's tire size combination and road conditions. Follow that manufacturer's instructions. To avoid vehicle damage, drive slowly and readjust or remove the traction device if it contacts the vehicle. Do not spin the wheels. If traction devices are used, install them on the rear tires.

If a Tire Goes Flat

It is unusual for a tire to blow out while driving, especially if the tires are maintained properly. If air goes out of a tire, it is much more likely to leak out slowly. See *Tires* ⇨ 265 for additional information. But if there ever is a blowout, here are a few tips about what to expect and what to do:

If a front tire fails, the flat tire creates a drag that pulls the vehicle toward that side. Take your foot off the accelerator pedal and grip the steering wheel firmly. Steer to maintain lane position, and then gently brake to a stop, well off the road, if possible.

A rear blowout, particularly on a curve, acts much like a skid and may require the same correction as used in a skid. Stop pressing the accelerator pedal and steer to straighten the vehicle. It may be very bumpy and noisy. Gently brake to a stop, well off the road, if possible.

The vehicle has no spare tire, no tire changing equipment, and no place to store a tire.

If the vehicle has run-flat tires, there is no need to stop on the side of the road to change a flat tire. See *Run-Flat Tires* ⇨ 266.

 Warning

Special tools and procedures are required to service a run-flat tire. If these special tools and procedures are not used, injury or vehicle damage may occur. Always be sure the proper tools and procedures, as described in the service manual, are used.

If this vehicle does not have run-flat tires and a tire goes flat, avoid further tire and wheel damage by driving slowly to a level place, well off the road, if possible. Turn on the hazard warning flashers. See *Hazard Warning Flashers* ⇨ 142.

1. Turn on the hazard warning flashers.
2. Set the parking brake firmly.
3. Put an automatic transmission in P (Park) or a manual transmission in 1 (First) or R (Reverse).
4. Turn off the ignition.

5. Inspect the flat tire.

 Warning

Driving on a flat tire will cause permanent damage to the tire. Re-inflating a tire after it has been driven on while severely underinflated or flat may cause a blowout and a serious crash. Never attempt to re-inflate a tire that has been driven on while severely underinflated or flat. Have your dealer or an authorized tire service center repair or replace the flat tire as soon as possible.

If this vehicle has a tire sealant kit and the tire has been separated from the wheel, has damaged sidewalls, or has a puncture larger than 6 mm (0.25 in), the tire is too severely damaged for the tire sealant and compressor kit to be effective. If the tire has a puncture less than 6 mm (0.25 in) in the tread area of the tire, see *Tire Sealant and Compressor Kit* ⇨ 287.

Tire Sealant and Compressor Kit **Warning**

Idling a vehicle in an enclosed area with poor ventilation is dangerous. Engine exhaust may enter the vehicle. Engine exhaust contains carbon monoxide (CO) which cannot be seen or smelled. It can cause unconsciousness and even death. Never run the engine in an enclosed area that has no fresh air ventilation. For more information, see *Engine Exhaust* ⇨ 186.

 Warning

Overinflating a tire could cause the tire to rupture and you or others could be injured. Be sure to read and follow the tire sealant and compressor kit instructions

(Continued)

Warning (Continued)

and inflate the tire to its recommended pressure. Do not exceed the recommended pressure.

Warning

Storing the tire sealant and compressor kit or other equipment in the passenger compartment of the vehicle could cause injury. In a sudden stop or collision, loose equipment could strike someone. Store the tire sealant and compressor kit in its original location.

If this vehicle has a tire sealant and compressor kit, there may not be a spare tire or tire changing equipment, and on some vehicles there may not be a place to store a tire.

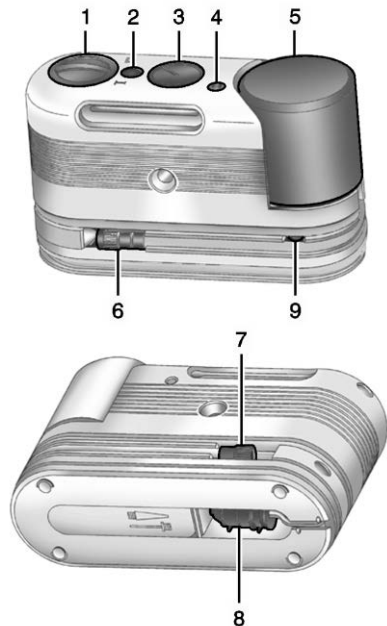
To obtain a tire sealant and compressor kit, see your dealer.

The tire sealant and compressor can be used to temporarily seal punctures up to 6 mm (0.25 in) in the tread area of the tire. It can also be used to inflate an underinflated tire.

If the tire has been separated from the wheel, has damaged sidewalls, or has a large puncture, the tire is too severely damaged for the tire sealant and compressor kit to be effective. See *Roadside Assistance Program* ⇨ 334.

Read and follow all of the tire sealant and compressor kit instructions.

The kit includes:



1. Selector Switch (Sealant/Air or Air Only)
2. On/Off Button

3. Pressure Gauge
4. Pressure Deflation Button
5. Tire Sealant Canister
6. Sealant/Air Hose (Clear)
7. Air Only Hose (Black)
8. Power Plug
9. Canister Release Button
(Under Sealant/Air Hose)

Tire Sealant

Read and follow the safe handling instructions on the label adhered to the sealant canister.

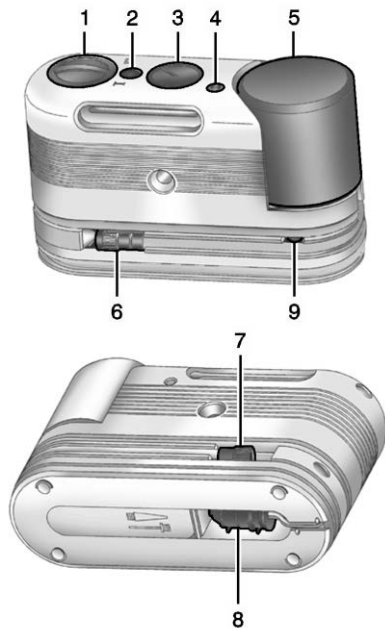
Check the tire sealant expiration date on the sealant canister. The sealant canister should be replaced before its expiration date.

Replacement sealant canisters are available at your local dealer. See "Removal and Installation of the Sealant Canister" later in this section.

There is only enough sealant to seal one tire. After usage, the sealant canister and sealant/air hose assembly must be replaced. See "Removal and Installation of the Sealant Canister" later in this section.

Using the Tire Sealant and Compressor Kit to Temporarily Seal and Inflate a Punctured Tire

Follow the directions closely for correct sealant usage.



1. Selector Switch (Sealant/Air or Air Only)
2. On/Off Button
3. Pressure Gauge

4. Pressure Deflation Button
5. Tire Sealant Canister
6. Sealant/Air Hose (Clear)
7. Air Only Hose (Black)
8. Power Plug
9. Canister Release Button (Under Sealant/Air Hose)

When using the tire sealant and compressor kit during cold temperatures, warm the kit in a heated environment for five minutes. This will help to inflate the tire faster.

If a tire goes flat, avoid further tire and wheel damage by driving slowly to a level place. Turn on the hazard warning flashers. See *Hazard Warning Flashers* ⇨ 142.

See *If a Tire Goes Flat* ⇨ 286 for other important safety warnings.

Do not remove any objects that have penetrated the tire.

1. Remove the tire sealant and compressor kit from its storage location. See *Storing the Tire Sealant and Compressor Kit* ⇨ 294.

2. Unwrap the sealant/air hose (6) and the power plug (8).

3. Place the kit on the ground.

Make sure the tire valve stem is positioned close to the ground so the hose will reach it.

4. Remove the valve stem cap from the flat tire by turning it counterclockwise.
5. Attach the sealant/air hose (6) onto the tire valve stem. Turn it clockwise until it is tight.
6. Plug the power plug (8) into the accessory power outlet in the vehicle. Unplug all items from other accessory power outlets. See *Power Outlets* ⇨ 101.

If the vehicle has an accessory power outlet, do not use the cigarette lighter.

If the vehicle only has a cigarette lighter, use the cigarette lighter.

Do not pinch the power plug cord in the door or window.

7. Start the vehicle. The vehicle must be running while using the air compressor.
8. Press and turn the selector switch (1) counterclockwise to the Sealant + Air position.

9. Press the on/off button (2) to turn the tire sealant and compressor kit on.

The compressor will inject sealant and air into the tire.

The pressure gauge (3) will initially show a high pressure while the compressor pushes the sealant into the tire. Once the sealant is completely dispersed into the tire, the pressure will quickly drop and start to rise again as the tire inflates with air only.

10. Inflate the tire to the recommended inflation pressure using the pressure gauge (3). The recommended inflation pressure can be found on the Tire and Loading Information label. See *Tire Pressure* ⇨ 274.

The pressure gauge (3) may read higher than the actual tire pressure while the compressor is on. Turn the compressor off to get an accurate reading. The compressor may be turned on/off until the correct pressure is reached.

Caution

If the recommended pressure cannot be reached after approximately 25 minutes, the vehicle should not be driven farther. The tire is too severely damaged and the tire sealant and compressor kit cannot inflate the tire. Remove the power plug from the accessory power outlet and unscrew the inflating hose from the tire valve. See *Roadside Assistance Program* ⇨ 334.

11. Press the on/off button (2) to turn the tire sealant and compressor kit off.

The tire is not sealed and will continue to leak air until the vehicle is driven and the sealant is distributed in the tire, therefore, Steps 12–18 must be done immediately after Step 11.

Be careful while handling the tire sealant and compressor kit as it could be warm after usage.

12. Unplug the power plug (8) from the accessory power outlet in the vehicle.
13. Turn the sealant/air hose (6) counterclockwise to remove it from the tire valve stem.
14. Replace the tire valve stem cap.
15. Replace the sealant/air hose (6), and the power plug (8) back in their original location.



16. If the flat tire was able to inflate to the recommended inflation pressure, remove the maximum speed label from the sealant canister (5) and place it in a highly visible location. Do not exceed the speed on this label until the damaged tire is repaired or replaced.
17. Return the equipment to its original storage location in the vehicle.
18. Immediately drive the vehicle 8 km (5 mi) to distribute the sealant in the tire.
19. Stop at a safe location and check the tire pressure. Refer to Steps 1–11 under “Using the Tire Sealant and Compressor Kit without Sealant to Inflate a Tire (Not Punctured).”

If the tire pressure has fallen more than 68 kPa (10 psi) below the recommended inflation pressure, stop driving the vehicle. The tire is too severely damaged and the tire sealant cannot seal the tire. See *Roadside Assistance Program* ⇨ 334.

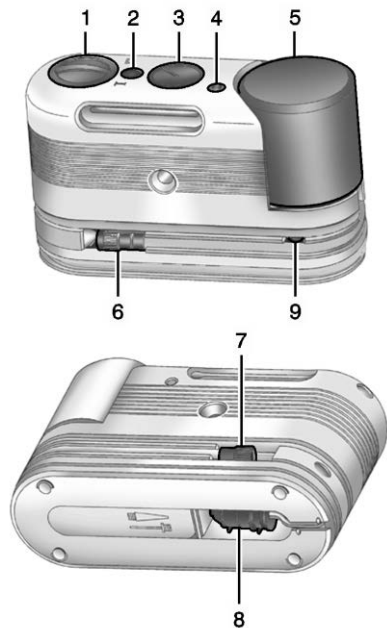
If the tire pressure has not dropped more than 68 kPa (10 psi) from the recommended inflation pressure, inflate the tire to the recommended inflation pressure.

20. Wipe off any sealant from the wheel, tire, and vehicle.
21. Dispose of the used sealant canister (5) and sealant/air hose (6) assembly at a local dealer or in accordance with local state codes and practices.

22. Replace with a new canister assembly available from your dealer.
23. After temporarily sealing the tire using the tire sealant and compressor kit, take the vehicle to an authorized dealer within 161 km (100 mi) of driving to have the tire repaired or replaced.

Using the Tire Sealant and Compressor Kit without Sealant to Inflate a Tire (Not Punctured)

To use the air compressor to inflate a tire with air only and not sealant:



1. Selector Switch (Sealant/Air or Air Only)
2. On/Off Button
3. Pressure Gauge

4. Pressure Deflation Button
5. Tire Sealant Canister
6. Sealant/Air Hose (Clear)
7. Air Only Hose (Black)
8. Power Plug
9. Canister Release Button (Under Sealant/Air Hose)

If a tire goes flat, avoid further tire and wheel damage by driving slowly to a level place. Turn on the hazard warning flashers. See *Hazard Warning Flashers* ⇨ 142.

See *If a Tire Goes Flat* ⇨ 286 for other important safety warnings.

1. Remove the tire sealant and compressor kit from its storage location. See *Storing the Tire Sealant and Compressor Kit* ⇨ 294.
2. Unwrap the air only hose (7) and the power plug (8).
3. Place the kit on the ground.

Make sure the tire valve stem is positioned close to the ground so the hose will reach it.

4. Remove the tire valve stem cap from the flat tire by turning it counterclockwise.
5. Attach the air only hose (7) onto the tire valve stem by turning it clockwise until it is tight.
6. Plug the power plug (8) into the accessory power outlet in the vehicle. Unplug all items from other accessory power outlets. See *Power Outlets* ⇨ 101.

If the vehicle has an accessory power outlet, do not use the cigarette lighter.

If the vehicle only has a cigarette lighter, use the cigarette lighter.

Do not pinch the power plug cord in the door or window.

7. Start the vehicle. The vehicle must be running while using the air compressor.
8. Press and turn the selector switch (1) clockwise to the Air Only position.

9. Press the on/off button (2) to turn the compressor on.

The compressor will inflate the tire with air only.

10. Inflate the tire to the recommended inflation pressure using the pressure gauge (3). The recommended inflation pressure can be found on the Tire and Loading Information label. See *Tire Pressure* ⇨ 274.

The pressure gauge (3) may read higher than the actual tire pressure while the compressor is on. Turn the compressor off to get an accurate reading. The compressor may be turned on/off until the correct pressure is reached.

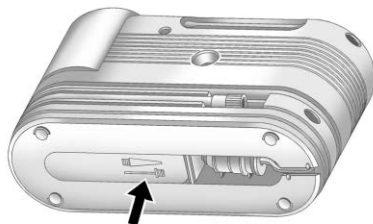
If you inflate the tire higher than the recommended pressure you can adjust the excess pressure by pressing the pressure deflation button (4) until the proper pressure reading is reached.

This option is only functional when using the air only hose (7).

11. Press the on/off button (2) to turn the tire sealant and compressor kit off.

Be careful while handling the tire sealant and compressor kit as it could be warm after usage.

12. Unplug the power plug (8) from the accessory power outlet in the vehicle.
13. Disconnect the air only hose (7) from the tire valve stem, by turning it counterclockwise, and replace the tire valve stem cap.
14. Replace the air only hose (7) and the power plug (8) and cord back in its original location.
15. Place the equipment in the original storage location in the vehicle.



The tire sealant and compressor kit has an accessory adapter located in a compartment on the bottom of its housing that may be used to inflate air mattresses, balls, etc.

Removal and Installation of the Sealant Canister

To remove the sealant canister:

1. Unwrap the sealant hose.
2. Press the canister release button (9).
3. Pull up and remove the canister.

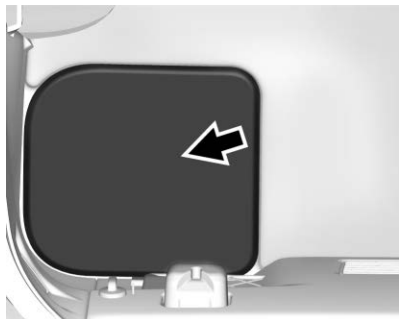
4. Replace with a new canister which is available from your dealer.
5. Push the new canister into place.

Storing the Tire Sealant and Compressor Kit

The tire sealant and compressor kit, if equipped, should be stored in the storage area behind the left rear wheel opening in the rear compartment when it is not being used.

To access the storage area:

1. Open the hatch/trunk. See *Hatch (Trunk)* ⇨ 38.



2. Lift the storage cover.

Jump Starting

Jump Starting - North America

For more information about the vehicle battery, see *Battery - North America* ⇨ 251.

If the battery has run down, use another vehicle and some jumper cables to start the vehicle. Be sure to use the following steps to do it safely.

Warning

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. **WASH HANDS AFTER**

(Continued)

Warning (Continued)

HANDLING. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

See *California Proposition 65 Warning* ⇨ 219 and the back cover.

Warning

Batteries can hurt you. They can be dangerous because:

- They contain acid that can burn you.
- They contain gas that can explode or ignite.
- They contain enough electricity to burn you.

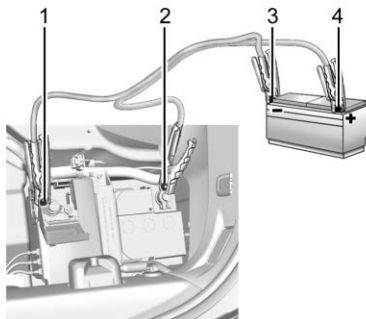
If you do not follow these steps exactly, some or all of these things can hurt you.

Caution

Ignoring these steps could result in costly damage to the vehicle that would not be covered by the vehicle warranty. Trying to start the vehicle by pushing or pulling it will not work, and it could damage the vehicle.

The battery is under a battery cover in the hatch/trunk area on the passenger side under the carpet.

Before you connect the cables, here are some basic things you should know. Positive (+) will go to the positive (+) terminal. Negative (-) will go to the negative (-) terminal.



1. Discharged Battery Positive (+) Terminal
 2. Discharged Battery Negative (-) Terminal
 3. Good Battery Negative (-) Terminal
 4. Good Battery Positive (+) Terminal
1. Check the other vehicle. It must have a 12-volt battery with a negative ground system.

Caution

If the other vehicle does not have a 12-volt system with a negative ground, both vehicles can be damaged. Only use a vehicle that has a 12-volt system with a negative ground for jump starting.

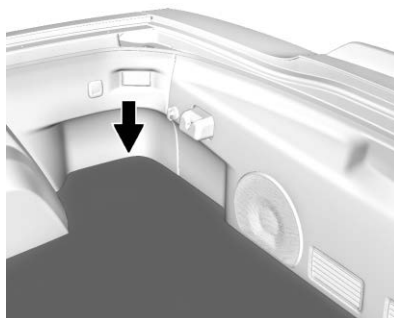
2. Get the vehicles close enough so the jumper cables can reach, but be sure the vehicles are not touching each other. If they are, it could cause a ground connection you do not want. You would not be able to start the vehicle, and the bad grounding could damage the electrical systems.

To avoid the possibility of the vehicles rolling, set the parking brake firmly on both vehicles involved in the jump start procedure. Put an automatic transmission in P (Park) or a manual transmission in Neutral before setting the parking brakes.

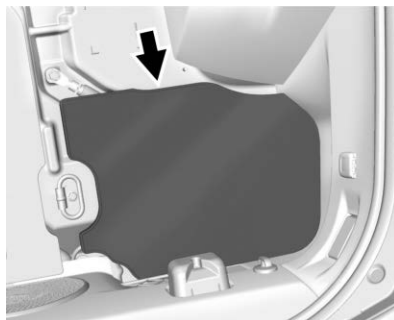
Caution

If any accessories are left on or plugged in during the jump starting procedure, they could be damaged. The repairs would not be covered by the vehicle warranty. Whenever possible, turn off or unplug all accessories on either vehicle when jump starting.

3. Turn off the ignition on both vehicles. Unplug unnecessary accessories plugged into the cigarette lighter or the accessory power outlet. Turn off the radio and all lamps that are not needed. This will avoid sparks and help save both batteries. And it could save the radio!



4. Open the hatch/trunk and lift the carpet on the passenger side of the vehicle to gain access to the battery cover.



5. Remove the left elastic loop for the cargo cover, then remove the battery cover and locate the positive (+) and negative (-) terminals.
6. Check that the jumper cables do not have loose or missing insulation. If they do, you could get a shock. The vehicles could be damaged too.
7. Open the positive terminal trim cover and connect the red positive (+) cable to the positive (+) terminal (1) of the dead battery.
8. Do not let the other end touch metal. Connect it to the positive (+) terminal (4) of the good battery.
9. Now connect the black negative (-) cable to the negative (-) terminal (3) of the good battery.

Do not let the other end touch anything until the next step.

10. Connect the other end of the negative (-) cable to the negative (-) terminal (2) on the dead battery.
11. Now start the vehicle with the good battery and run the engine for a while.
12. Try to start the vehicle that had the dead battery. If it will not start after a few tries, it probably needs service.

Caution

If the jumper cables are connected or removed in the wrong order, electrical shorting may occur and damage the vehicle. The repairs would not be covered by the vehicle warranty. Always connect and remove the jumper cables in the correct order, making sure that the cables do not touch each other or other metal.

Jumper Cable Removal

Reverse the sequence exactly when removing the jumper cables.

After starting the disabled vehicle and removing the jumper cables, allow it to idle for several minutes.

The power windows may need to be initialized. See "Window Indexing" under *Power Windows* ⇨ 46.

Towing the Vehicle**Caution**

Incorrectly towing a disabled vehicle may cause damage. The damage would not be covered by the vehicle warranty. Do not lash or hook to suspension components. Use the proper straps around the tires to secure the vehicle. Do not drag a locked wheel/tire while loading the vehicle. Do not use a sling type lift to tow the vehicle. This could damage the vehicle.

GM recommends a flatbed tow truck to transport a disabled vehicle. Use ramps to help reduce approach angles, if necessary. A towed vehicle should have its drive wheels off the ground. Contact Roadside Assistance or a professional towing service if the disabled vehicle must be towed.

Caution

Improper use of the tow eye can cause vehicle damage. Use caution and low speeds to prevent damage to the vehicle.

If the vehicle is equipped with a tow eye, only use the tow eye to pull the vehicle onto a flatbed car carrier from a flat road surface. Do not use the tow eye to pull the vehicle from snow, mud, or sand.

If necessary, the tow eye can be obtained from your dealer.



The tow eye can be stowed in the vehicle in the passenger side trunk area, below the carpet.

The front tow eye socket is accessible through the grille opening or the cover in the fascia. Carefully remove the cover using a flat plastic tool in the small notch on the side of the cover.

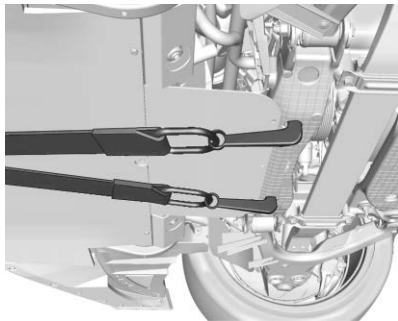


ZR1 Only

**Except ZR1**

Install the tow eye into the socket by turning it clockwise until it stops. When the tow eye is removed, reinstall the cover with the notch in the original position.

To tow the vehicle behind another vehicle for recreational purposes, such as behind a motor home, see "Recreational Vehicle Towing" following.



The vehicle is also equipped with secondary attachment points to be used to pull the vehicle onto a flatbed car carrier from a flat road surface. Do not use these attachment points to pull the vehicle from snow, mud, or sand.

Recreational Vehicle Towing

Caution

Dolly towing or dinghy towing the vehicle may cause damage because of reduced ground clearance. Always put the vehicle on a flatbed truck or trailer.

The vehicle was neither designed nor intended to be towed with any of its wheels on the ground. If the vehicle must be towed, see *Towing the Vehicle* ⇨ 298.

Appearance Care

Exterior Care

Locks

Locks are lubricated at the factory. Use a de-icing agent only when absolutely necessary, and have the locks greased after using. See *Recommended Fluids and Lubricants* ⇨ 321.

Washing the Vehicle

To preserve the vehicle's finish, wash it often and out of direct sunlight.

Caution

Do not use petroleum-based, acidic, or abrasive cleaning agents as they can damage the vehicle's paint, metal, or plastic parts. If damage occurs, it would not be covered by the vehicle warranty. Approved cleaning products can be obtained from

(Continued)

Caution (Continued)

your dealer. Follow all manufacturer directions regarding correct product usage, necessary safety precautions, and appropriate disposal of any vehicle care product.

Caution

Avoid using high-pressure washes closer than 30 cm (12 in) to the surface of the vehicle. Use of power washers exceeding 8,274 kPa (1,200 psi) can result in damage or removal of paint and decals.

Caution

Do not power wash any component under the hood that has this  symbol.

(Continued)

Caution (Continued)

This could cause damage that would not be covered by the vehicle warranty.

Automatic Car Wash**Caution**

Automatic car washes can cause damage to the vehicle, wheels, ground effects, convertible top (if equipped), and rear adjustable performance wing (ZR1 model). Do not use automatic car washes due to lack of clearance for the undercarriage, wide rear tires and wheels, and/or height of the rear adjustable performance wing.

Hand Wash

Rinse the vehicle well, before washing and after, to remove all cleaning agents completely. If they are allowed to dry on the surface, they could stain.

Dry the finish with a soft, clean chamois or an all-cotton towel to avoid surface scratches and water spotting.

Finish Care

Application of aftermarket clearcoat sealant/wax materials is not recommended. If painted surfaces are damaged, see your dealer to have the damage assessed and repaired. Foreign materials such as calcium chloride and other salts, ice melting agents, road oil and tar, tree sap, bird droppings, chemicals from industrial chimneys, etc., can damage the vehicle's finish if they remain on painted surfaces. Wash the vehicle as soon as possible. If necessary, use non-abrasive cleaners that are marked safe for painted surfaces to remove foreign matter.

Occasional hand waxing or mild polishing should be done to remove residue from the paint finish. See your dealer for approved cleaning products.

302 Vehicle Care

Do not apply waxes or polishes to uncoated plastic, vinyl, rubber, decals, simulated wood, or flat paint as damage can occur.

Caution

Machine compounding or aggressive polishing on a basecoat/clearcoat paint finish may damage it. Use only non-abrasive waxes and polishes that are made for a basecoat/clearcoat paint finish on the vehicle.

To keep the paint finish looking new, keep the vehicle garaged or covered whenever possible.

Protecting Exterior Bright Metal Moldings

Caution

Failure to clean and protect the bright metal moldings can result in a hazy white finish or pitting. This damage would not be covered by the vehicle warranty.

The bright metal moldings on the vehicle are aluminum, chrome, and stainless steel. To prevent damage always follow these cleaning instructions:

- Be sure the molding is cool to the touch before applying any cleaning solution.
- Use only approved cleaning solutions for aluminum, chrome, and stainless steel. Some cleaners are highly acidic or contain alkaline substances and can damage the moldings.
- Always dilute a concentrated cleaner according to the manufacturer's instructions.

- Do not use cleaners that are not intended for automotive use.
- Use a nonabrasive wax on the vehicle after washing to protect and extend the molding finish.

Convertible Top Care

Frequently hand wash convertible tops with mild car wash soap. Never use a stiff brush, steam, bleach, or aggressive cleaners.

If necessary, a soft brush can be used to remove dirt. When finished cleaning, thoroughly rinse the fabric. Avoid automatic car washes with overhead brushes or very high-pressure sprays as they can cause damage and leaking.

Only lower the top when it is completely dry and avoid leaving the top lowered for extended periods of time to prevent excessive interior weathering.

Avoid leaving large amounts of snow on the top for extended periods of time as damage may also occur.

Carbon Fiber Care

Carbon fiber composite parts can be washed and waxed like any other parts. Use a clear or black pigmented wax. See *Composite Materials* ⇨ 179.

Cleaning Exterior Lamps/ Lenses, Emblems, Decals, and Stripes

Use only lukewarm or cold water, a soft cloth, and a car washing soap to clean exterior lamps, lenses, emblems, decals, and stripes. Follow instructions under "Washing the Vehicle" previously in this section.

Lamp covers are made of plastic, and some have a UV protective coating. Do not clean or wipe them while they are dry.

Do not use any of the following on lamp covers:

- Abrasive or caustic agents

- Washer fluids and other cleaning agents in higher concentrations than suggested by the manufacturer
- Solvents, alcohols, fuels, or other harsh cleaners
- Ice scrapers or other hard items
- Aftermarket appearance caps or covers while the lamps are illuminated, due to excessive heat generated

Caution

Failure to clean lamps properly can cause damage to the lamp cover that would not be covered by the vehicle warranty.

Caution

Using wax on low gloss black finish stripes can increase the gloss level and create a

(Continued)

Caution (Continued)

non-uniform finish. Clean low gloss stripes with soap and water only.

Air Intakes

Clear debris from the air intakes, between the hood and windshield, when washing the vehicle.

Windshield and Wiper Blades

Clean the outside of the windshield with glass cleaner.

Clean rubber blades using lint-free cloth or paper towel soaked with windshield washer fluid or a mild detergent. Wash the windshield thoroughly when cleaning the blades. Bugs, road grime, sap, and a buildup of vehicle wash/wax treatments may cause wiper streaking.

Replace the wiper blades if they are worn or damaged. Damage can be caused by extreme dusty conditions, sand, salt, heat, sun, snow, and ice.

Weatherstrips

Apply weatherstrip lubricant on weatherstrips to make them last longer, seal better, and not stick or squeak. Lubricate weatherstrips at least once a year. Hot, dry climates require more frequent application. Black marks from rubber material on painted surfaces can be removed by rubbing with a clean cloth. See *Recommended Fluids and Lubricants* ⇨ 321.

Tires

Use a stiff brush with tire cleaner to clean the tires.

Caution

Using petroleum-based tire dressing products on the vehicle may damage the paint finish and/

(Continued)

Caution (Continued)

or tires. When applying a tire dressing, always wipe off any overspray from all painted surfaces on the vehicle.

Wheels and Wheel Trim

Use a soft, clean cloth with mild soap and water to clean the wheels. After rinsing thoroughly with clean water, dry with a soft, clean towel. A wax may then be applied.

Caution

Chrome wheels and chrome wheel trim may be damaged if the vehicle is not washed after driving on roads that have been sprayed with magnesium chloride or calcium chloride. These are used on roads for conditions such as dust and ice. Always wash the chrome with soap and water after exposure.

Caution

To avoid surface damage on wheels and wheel trim, do not use strong soaps, chemicals, abrasive polishes, cleaners, or brushes. Use only GM approved cleaners. Do not drive the vehicle through an automatic car wash that uses silicone carbide tire/wheel cleaning brushes. Damage could occur and the repairs would not be covered by the vehicle warranty.

Brake System

Visually inspect brake lines and hoses for proper hook-up, binding, leaks, cracks, chafing, etc. Inspect disc brake pads for wear and rotors for surface condition. Inspect drum brake linings/shoes for wear or cracks. Inspect other brake parts, including drums, wheel cylinders, calipers, parking brake, master cylinder, brake fluid reservoir,

vacuum pipes, electric vacuum pump including bracket and vent hose, if equipped.

Steering, Suspension, and Chassis Components

Visually inspect steering, suspension, and chassis components for damaged, loose, or missing parts or signs of wear at least once a year.

Inspect power steering for proper hook-up, binding, leaks, cracks, chafing, etc.

Visually check constant velocity joint boots and axle seals for leaks.

Body Component Lubrication

Lubricate all key lock cylinders, hood hinges, and liftgate hinges, unless the components are plastic. Applying silicone grease on weatherstrips with a clean cloth will make them last longer, seal better, and not stick or squeak.

Underbody Maintenance

At least twice a year, spring and fall, use plain water to flush any corrosive materials from the underbody. Take care to thoroughly clean any areas where mud and other debris can collect.

Do not directly power wash the transfer case and/or front/rear axle output seals. High pressure water can overcome the seals and contaminate the fluid. Contaminated fluid will decrease the life of the transfer case and/or axles and should be replaced.

Composite Springs

Caution

Do not use acidic or corrosive cleaning products, engine degreasers, or aluminum cleaning agents on fiberglass springs as it may cause damage. The repairs would not be covered by the vehicle warranty. Use only approved cleaners.

Body Damage

If the vehicle is damaged and requires sheet metal repair or replacement, make sure the body repair shop applies anti-corrosion material to parts repaired or replaced to restore corrosion protection.

Original manufacturer replacement parts will provide the corrosion protection while maintaining the vehicle warranty.

Finish Damage

Quickly repair minor chips and scratches with touch-up materials available from your dealer. Larger areas of finish damage can be corrected in your dealer's body and paint shop.

Chemical Paint Spotting

Airborne pollutants can fall upon and attack painted vehicle surfaces causing blotchy, ring-shaped discolorations, and small, irregular dark spots etched into the paint surface. See "Finish Care" previously in this section.

Interior Care

To prevent dirt particle abrasions, regularly clean the vehicle's interior. Immediately remove any soils. Newspapers or dark garments can transfer color to the vehicle's interior.

Use a soft bristle brush to remove dust from knobs and crevices on the instrument cluster. Using a mild soap solution, immediately remove hand lotions, sunscreen, and insect repellent from all interior surfaces or permanent damage may result.

Use cleaners specifically designed for the surfaces being cleaned to prevent permanent damage. Apply all cleaners directly to the cleaning cloth. Do not spray cleaners on any switches or controls. Remove cleaners quickly.

Before using cleaners, read and follow all safety instructions on the label. While cleaning the interior, open the doors and windows to get proper ventilation.

To prevent damage, do not clean the interior using the following cleaners or techniques:

- Never use a razor or any other sharp object to remove soil from any interior surface.
- Never use a brush with stiff bristles.
- Never rub any surface aggressively or with too much pressure.
- Do not use laundry detergents or dishwashing soaps with degreasers. For liquid cleaners, use approximately 20 drops per 3.8 L (1 gal) of water. A concentrated soap solution will create streaks and attract dirt. Do not use solutions that contain strong or caustic soap.
- Do not heavily saturate the upholstery when cleaning.
- Do not use solvents or cleaners containing solvents.

Interior Glass

To clean, use a terry cloth fabric dampened with water. Wipe droplets left behind with a clean dry cloth. If necessary, use a commercial glass cleaner after cleaning with plain water.

Caution
To prevent scratching, never use abrasive cleaners on automotive glass. Abrasive cleaners or aggressive cleaning may damage the rear window defogger.

Cleaning the windshield with water during the first three to six months of ownership will reduce tendency to fog.

Speaker Covers

Vacuum around a speaker cover gently, so that the speaker will not be damaged. Clean spots with water and mild soap.

Coated Moldings

Coated moldings should be cleaned.

- When lightly soiled, wipe with a sponge or soft, lint-free cloth dampened with water.
- When heavily soiled, use warm soapy water.

Fabric/Carpet/Suede

Start by vacuuming the surface using a soft brush attachment. If a rotating vacuum brush attachment is being used, only use it on the floor carpet. Before cleaning, gently remove as much of the soil as possible:

- Gently blot liquids with a paper towel. Continue blotting until no more soil can be removed.
- For solid soils, remove as much as possible prior to vacuuming.

To clean:

1. Saturate a clean, lint-free colorfast cloth with water. Microfiber cloth is recommended to prevent lint transfer to the fabric or carpet.

2. Remove excess moisture by gently wringing until water does not drip from the cleaning cloth.
3. Start on the outside edge of the soil and gently rub toward the center. Fold the cleaning cloth to a clean area frequently to prevent forcing the soil in to the fabric.
4. Continue gently rubbing the soiled area until there is no longer any color transfer from the soil to the cleaning cloth.
5. If the soil is not completely removed, use a mild soap solution followed only by plain water.

If the soil is not completely removed, it may be necessary to use a commercial upholstery cleaner or spot lifter. Test a small hidden area for colorfastness before using a commercial upholstery cleaner or spot lifter. If ring formation occurs, clean the entire fabric or carpet.

After cleaning, use a paper towel to blot excess moisture.

Cleaning High Gloss Surfaces and Vehicle Information and Radio Displays

Use a microfiber cloth on high gloss surfaces or vehicle displays. First, use a soft bristle brush to remove dirt that can scratch the surface. Then gently clean by rubbing with a microfiber cloth. Never use window cleaners or solvents. Periodically hand wash the microfiber cloth separately, using mild soap. Do not use bleach or fabric softener. Rinse thoroughly and air dry before next use.

Caution

Do not attach a device with a suction cup to the display. This may cause damage and would not be covered by the vehicle warranty.

Instrument Panel, Leather, Vinyl, Other Plastic Surfaces, Low Gloss Paint Surfaces, and Natural Open Pore Wood Surfaces

Use a soft microfiber cloth dampened with water to remove dust and loose dirt. For a more thorough cleaning, use a soft microfiber cloth dampened with a mild soap solution.

Caution

Soaking or saturating leather, especially perforated leather, as well as other interior surfaces, may cause permanent damage. Wipe excess moisture from these surfaces after cleaning and allow them to dry naturally. Never use heat, steam, or spot removers. Do not use cleaners that contain silicone or wax-based products. Cleaners containing these solvents can permanently change

(Continued)

Caution (Continued)

the appearance and feel of leather or soft trim, and are not recommended.

Do not use cleaners that increase gloss, especially on the instrument panel. Reflected glare can decrease visibility through the windshield under certain conditions.

Caution

Use of air fresheners may cause permanent damage to plastics and painted surfaces. If an air freshener comes in contact with any plastic or painted surface in the vehicle, blot immediately and clean with a soft cloth dampened with a mild soap solution. Damage caused by air fresheners would not be covered by the vehicle warranty.

Cargo Cover and Convenience Net

If equipped, wash with warm water and mild detergent. Do not use chlorine bleach. Rinse with cold water, and then dry completely.

Care of Seat Belts

Keep belts clean and dry.

**Warning**

Do not bleach or dye seat belt webbing. It may severely weaken the webbing. In a crash, they might not be able to provide adequate protection. Clean and rinse seat belt webbing only with mild soap and lukewarm water. Allow the webbing to dry.

Floor Mats

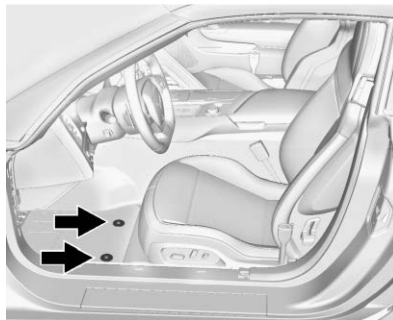
Warning

If a floor mat is the wrong size or is not properly installed, it can interfere with the pedals. Interference with the pedals can cause unintended acceleration and/or increased stopping distance which can cause a crash and injury. Make sure the floor mat does not interfere with the pedals.

Use the following guidelines for proper floor mat usage:

- The original equipment floor mats were designed for your vehicle. If the floor mats need replacing, it is recommended that GM certified floor mats be purchased. Non-GM floor mats may not fit properly and may interfere with the accelerator or brake pedal. Always check that the floor mats do not interfere with the pedals.

- Do not use a floor mat if the vehicle is not equipped with a floor mat retainer on the driver side floor.
- Use the floor mat with the correct side up. Do not turn it over.
- Do not place anything on top of the driver side floor mat.
- Use only a single floor mat on the driver side.
- Do not place one floor mat on top of another.



The floor mats are held in place by two retainers.

Installing and Replacing the Floor Mats

1. Pull up on the rear of the floor mat to remove it from the retainers.
2. Reinstall by lining up the openings in the floor mat over the retainers and push down into position.
3. Make sure the floor mat is properly secured in place. Verify the floor mat does not interfere with the pedals.

Service and Maintenance

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General Information

Your vehicle is an important investment. This section describes the required maintenance for the vehicle. Follow this schedule to help protect against major repair expenses resulting from neglect or inadequate maintenance. It may also help to maintain the value of the vehicle if it is sold. It is the responsibility of the owner to have all required maintenance performed.

Your dealer has trained technicians who can perform required maintenance using genuine replacement parts. They have up-to-date tools and equipment for fast and accurate diagnostics. Many dealers have extended evening and Saturday hours, courtesy transportation, and online scheduling to assist with service needs.

Your dealer recognizes the importance of providing competitively priced maintenance and repair services. With trained technicians, the dealer is the place

for routine maintenance such as oil changes and tire rotations and additional maintenance items like tires, brakes, batteries, and wiper blades.

Caution

Damage caused by improper maintenance can lead to costly repairs and may not be covered by the vehicle warranty. Maintenance intervals, checks, inspections, recommended fluids, and lubricants are important to keep the vehicle in good working condition.

Do not have chemical flushes that are not approved by GM performed on the vehicle. The use of flushes, solvents, cleaners, or lubricants that are not approved by GM could damage the vehicle, requiring expensive repairs that are not covered by the vehicle warranty.

The Tire Rotation and Required Services are the responsibility of the vehicle owner. It is recommended to have your dealer perform these services every 12 000 km/7,500 mi. Proper vehicle maintenance helps to keep the vehicle in good working condition, improves fuel economy, and reduces vehicle emissions.

Because of the way people use vehicles, maintenance needs vary. There may need to be more frequent checks and services. The Additional Required Services - Normal are for vehicles that:

- Carry passengers and cargo within recommended limits on the Tire and Loading Information label. See *Vehicle Load Limits* ⇨ 175.
- Are driven on reasonable road surfaces within legal driving limits.
- Use the recommended fuel. See *Recommended Fuel (LT1 6.2L V8 Engine)* ⇨ 212 or

Recommended Fuel (LT4 and LT5 6.2L Supercharged V8 Engines) ⇨ 213.

Refer to the information in the Maintenance Schedule Additional Required Services - Normal chart.

The Additional Required Services - Severe are for vehicles that are:

- Mainly driven in heavy city traffic in hot weather.
- Mainly driven in hilly or mountainous terrain.
- Frequently towing a trailer.
- Used for high speed or competitive driving.
- Used for taxi, police, or delivery service.

Refer to the information in the Maintenance Schedule Additional Required Services - Severe chart.

Warning

Performing maintenance work can be dangerous and can cause serious injury. Perform maintenance work only if the required information, proper tools, and equipment are available. If they are not, see your dealer to have a trained technician do the work. See *Doing Your Own Service Work* ⇨ 223.

Maintenance Schedule

Owner Checks and Services

At Each Fuel Stop

- Check the engine oil level. See *Engine Oil* ⇨ 232.

Once a Month

- Check the tire inflation pressures. See *Tire Pressure* ⇨ 274.
- Inspect the tires for wear. See *Tire Inspection* ⇨ 278.
- Check the windshield washer fluid level. See *Washer Fluid* ⇨ 248.

Engine Oil Change

When the CHANGE ENGINE OIL SOON message displays, have the engine oil and filter changed within the next 1 000 km/600 mi. If driven under the best conditions, the engine oil life system may not indicate the need for vehicle service for up to a year. The engine oil and

filter must be changed at least once a year and the oil life system must be reset. Your trained dealer technician can perform this work. If the engine oil life system is reset accidentally, service the vehicle within 5 000 km/3,000 mi since the last service. Reset the oil life system when the oil is changed. See *Engine Oil Life System* ⇨ 237.

Dry Sump Engine Break-In Oil Change

If equipped with a dry sump engine, the initial oil and filter change must be performed at 800 km/500 mi. Follow the engine oil life system for every oil change thereafter.

Air Conditioning Desiccant (Replace Every Seven Years)

The air conditioning system requires maintenance every seven years. This service requires replacement of the desiccant to help the longevity and efficient operation of the air conditioning system. This service can be complex. See your dealer.

Required Services Every 12 000 km/7,500 mi

- Check engine oil level and oil life percentage. If needed, change engine oil and filter, and reset oil life system. See *Engine Oil* ⇨ 232 and *Engine Oil Life System* ⇨ 237.
- Check engine coolant level. See *Cooling System (Engine)* ⇨ 242 or *Cooling System (Aero Panel)* ⇨ 246 or *Cooling System (Intercooler on LT4 and LT5 Engines)* ⇨ 247.
- Check windshield washer fluid level. See *Washer Fluid* ⇨ 248.
- Check tire inflation pressures. See *Tire Pressure* ⇨ 274.
- Inspect tire wear. See *Tire Inspection* ⇨ 278.
- Visually check for fluid leaks.
- Inspect engine air cleaner filter. See *Engine Air Cleaner/Filter* ⇨ 239.
- Inspect brake system. See *Exterior Care* ⇨ 300.

- Visually inspect steering, suspension, and chassis components for damage, including cracks or tears in the rubber boots, loose or missing parts, or signs of wear at least once a year. See *Exterior Care* ⇨ 300.
- Inspect power steering for proper attachment, connections, binding, leaks, cracks, chafing, etc.
- Visually inspect halfshafts and drive shafts for excessive wear, lubricant leaks, and/or damage including: tube dents or cracks, constant velocity joint or universal joint looseness, cracked or missing boots, loose or missing boot clamps, center bearing excessive looseness, loose or missing fasteners, and axle seal leaks.
- Check restraint system components. See *Safety System Check* ⇨ 72.
- Visually inspect fuel system for damage or leaks.
- Visually inspect exhaust system and nearby heat shields for loose or damaged parts.
- Lubricate body components. See *Exterior Care* ⇨ 300.
- Check starter switch. See *Starter Switch Check* ⇨ 253.
- Check parking brake and automatic transmission park mechanism. See *Park Brake and P (Park) Mechanism Check* ⇨ 254.
- Check accelerator pedal for damage, high effort, or binding. Replace if needed.
- Visually inspect gas strut for signs of wear, cracks, or other damage. Check the hold open ability of the strut. If the hold open is low, service the gas strut. See *Gas Strut(s)* ⇨ 255.

**Footnotes — Maintenance
Schedule Additional Required
Services - Normal**

(1) Or every two years, whichever comes first. More frequent passenger compartment air filter replacement may be needed if driving in areas with heavy traffic, poor air quality, high dust levels, or environmental allergens. Passenger compartment air filter replacement may also be needed if there is reduced airflow, window fogging, or odors. Your GM dealer can help determine when to replace the filter.

(2) Visually check all fuel and vapor lines and hoses for proper attachment, connection, routing, and condition.

(3) Or every four years, whichever comes first. If driving in dusty conditions, inspect the filter at each oil change or more often as needed.

(4) Or every five years, whichever comes first. See *Cooling System (Engine)* ⇨ 242 or *Cooling System (Aero Panel)* ⇨ 246 or *Cooling System (Intercooler on LT4 and LT5 Engines)* ⇨ 247.

(5) Or every 10 years, whichever comes first. Inspect for fraying, excessive cracking, or damage; replace, if needed.

(6) Replace brake fluid every three years. See *Brake Fluid* ⇨ 250.

(7) Replace clutch fluid every three years. See *Hydraulic Clutch* ⇨ 239.

(8) Or every 12 months, whichever comes first. See *Wiper Blade Replacement* ⇨ 254.

Footnotes — Maintenance Schedule Additional Required Services - Severe

(1) Or every two years, whichever comes first. More frequent passenger compartment air filter replacement may be needed if driving in areas with heavy traffic, poor air quality, high dust levels, or environmental allergens. Passenger compartment air filter replacement may also be needed if there is reduced airflow, window fogging, or odors. Your GM dealer can help determine when to replace the filter.

(2) Visually check all fuel and vapor lines and hoses for proper attachment, connection, routing, and condition.

(3) Or every four years, whichever comes first. If driving in dusty conditions, inspect the filter at each oil change or more often as needed.

(4) Or every five years, whichever comes first. See *Cooling System (Engine)* ⇨ 242 or *Cooling System (Aero Panel)* ⇨ 246 or *Cooling System (Intercooler on LT4 and LT5 Engines)* ⇨ 247.

(5) Or every 10 years, whichever comes first. Inspect for fraying, excessive cracking, or damage; replace, if needed.

(6) Replace brake fluid every three years. See *Brake Fluid* ⇨ 250.

(7) Replace clutch fluid every three years. See *Hydraulic Clutch* ⇨ 239.

(8) Or every 12 months, whichever comes first. See *Wiper Blade Replacement* ⇨ 254.

Special Application Services

- Severe Commercial Use Vehicles Only: Lubricate chassis components every oil change.
- Have underbody flushing service performed. See "Underbody Maintenance" in *Exterior Care* ⇨ 300.

Additional Maintenance and Care

Your vehicle is an important investment and caring for it properly may help to avoid future costly repairs. To maintain vehicle performance, additional maintenance services may be required.

It is recommended that your dealer perform these services — their trained dealer technicians know your vehicle best. Your dealer can also perform a thorough assessment with a multi-point inspection to recommend when your vehicle may need attention.

The following list is intended to explain the services and conditions to look for that may indicate services are required.

Battery

The 12-volt battery supplies power to start the engine and operate any additional electrical accessories.

- To avoid break-down or failure to start the vehicle, maintain a battery with full cranking power.
- Trained dealer technicians have the diagnostic equipment to test the battery and ensure that the connections and cables are corrosion-free.

Belts

- Belts may need replacing if they squeak or show signs of cracking or splitting.
- Trained dealer technicians have access to tools and equipment to inspect the belts and recommend adjustment or replacement when necessary.

Brakes

Brakes stop the vehicle and are crucial to safe driving.

- Signs of brake wear may include chirping, grinding, or squealing noises, or difficulty stopping.

- Trained dealer technicians have access to tools and equipment to inspect the brakes and recommend quality parts engineered for the vehicle.

Fluids

Proper fluid levels and approved fluids protect the vehicle's systems and components. See *Recommended Fluids and Lubricants* ⇨ 321 for GM approved fluids.

- Engine oil and windshield washer fluid levels should be checked at every fuel fill.
- Instrument cluster lights may come on to indicate that fluids may be low and need to be filled.

Hoses

Hoses transport fluids and should be regularly inspected to ensure that there are no cracks or leaks. With a multi-point inspection, your dealer can inspect the hoses and advise if replacement is needed.

Lamps

Properly working headlamps, taillamps, and brake lamps are important to see and be seen on the road.

- Signs that the headlamps need attention include dimming, failure to light, cracking, or damage. The brake lamps need to be checked periodically to ensure that they light when braking.
- With a multi-point inspection, your dealer can check the lamps and note any concerns.

Shocks and Struts

Shocks and struts help aid in control for a smoother ride.

- Signs of wear may include steering wheel vibration, bounce/sway while braking, longer stopping distance, or uneven tire wear.
- As part of the multi-point inspection, trained dealer technicians can visually inspect the shocks and struts for signs

of leaking, blown seals, or damage, and can advise when service is needed.

Tires

Tires need to be properly inflated, rotated, and balanced. Maintaining the tires can save money and fuel, and can reduce the risk of tire failure.

- Signs that the tires need to be replaced include three or more visible treadwear indicators; cord or fabric showing through the rubber; cracks or cuts in the tread or sidewall; or a bulge or split in the tire.
- Trained dealer technicians can inspect and recommend the right tires. Your dealer can also provide tire/wheel balancing services to ensure smooth vehicle operation at all speeds. Your dealer sells and services name brand tires.

Vehicle Care

To help keep the vehicle looking like new, vehicle care products are available from your dealer. For information on how to clean and protect the vehicle's interior and exterior, see *Interior Care* ⇨ 306 and *Exterior Care* ⇨ 300.

Wheel Alignment

Wheel alignment is critical for ensuring that the tires deliver optimal wear and performance.

- Signs that the alignment may need to be adjusted include pulling, improper vehicle handling, or unusual tire wear.
- Your dealer has the required equipment to ensure proper wheel alignment.

Windshield

For safety, appearance, and the best viewing, keep the windshield clean and clear.

- Signs of damage include scratches, cracks, and chips.

- Trained dealer technicians can inspect the windshield and recommend proper replacement if needed.

Wiper Blades

Wiper blades need to be cleaned and kept in good condition to provide a clear view.

- Signs of wear include streaking, skipping across the windshield, and worn or split rubber.
- Trained dealer technicians can check the wiper blades and replace them when needed.

Recommended Fluids, Lubricants, and Parts

Recommended Fluids and Lubricants

Fluids and lubricants identified below by name, part number, or specification can be obtained from your dealer.

Usage	Fluid/Lubricant
Chassis Lubrication	Chassis Lubricant (GM Part No. 12377985, in Canada 88901242) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Electronic Limited-Slip Differential (eLSD) Clutch System Lubricant (ZR1, Z51, Grand Sport, and Z06 Only)	DEXRON-VI Automatic Transmission Fluid.
Engine Coolant	40/60 coolant/water mixture of clean, drinkable water and use only DEX-COOL Coolant. See <i>Cooling System (Engine)</i> ⇨ 242 or <i>Cooling System (Aero Panel)</i> ⇨ 246 or <i>Cooling System (Intercooler on LT4 and LT5 Engines)</i> ⇨ 247.
Engine Oil	Engine oil meeting the dexos2 specification of the proper SAE viscosity grade. ACDelco dexos2 is recommended. See <i>Engine Oil</i> ⇨ 232.
Hood Latch Assembly, Secondary Latch, Pivots, Spring Anchor, and Release Pawl	Lubriplate Lubricant Aerosol (GM Part No. 89021668, in Canada 89021674) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Hydraulic Brake System	DOT 4 Hydraulic Brake Fluid (GM Part No. 19299570, in Canada 19299571).

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Usage	Fluid/Lubricant
Hydraulic Clutch System	Hydraulic Clutch Fluid. Use only GM Part No. 19299570, in Canada 19299571, Super DOT 4 brake fluid.
Key Lock Cylinders, Hood and Door Hinges	Multi-Purpose Lubricant, Superlube (GM Part No. 12346241, in Canada 10953474).
Rear Adjustable Wing (If Equipped)	Medium-Strength Threadlocker - Blue (GM Part No. 19333511, ACDelco 10-2023).
Rear Axle	DEXRON LS Gear Oil (GM Part No. 88862624, in Canada 88862625). See <i>Rear Axle</i> ⇨ 252 for information on checking the fluid.
Transmission (Automatic)	DEXRON-HP Automatic Transmission Fluid (GM Part No. 19331925, in Canada 19300537).
Transmission (Manual)	Manual Transmission Fluid (GM Part No. 88861800, in Canada 88861801).
Weatherstrip Conditioning	Weatherstrip Lubricant (GM Part No. 3634770, in Canada 10953518) or equivalent.
Windshield Washer	Automotive windshield washer fluid that meets regional freeze protection requirements.

Maintenance Replacement Parts

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

Part	GM Part Number	ACDelco Part Number
Engine Air Cleaner/Filter	84032895	A3191C
Engine Oil Filter	12640445	PF64
Passenger Compartment Air Filter Element	22862632	CF139
Spark Plug		
6.2L LT1 Engine	12622441	41-114
6.2L LT4 Supercharged Engine	12642722	41-128
6.2L LT5 Supercharged Engine	12664824	41-148
Wiper Blades		
Driver Side – 550 mm (21.7 in)	23360288	—
Passenger Side – 500 mm (19.7 in)	23362278	—

Maintenance Records

After the scheduled services are performed, record the date, odometer reading, who performed the service, and the type of services performed in the boxes provided. Retain all maintenance receipts.

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Technical Data

Vehicle Identification

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Service Parts Identification Label	325

Vehicle Data

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Vehicle Identification

Vehicle Identification Number (VIN)



This legal identifier is in the front corner of the instrument panel, on the driver side of the vehicle. It can be seen through the windshield from outside. The Vehicle Identification Number (VIN) also appears on the Vehicle Certification and Service Parts labels and certificates of title and registration.

Engine Identification

The eighth character in the VIN is the engine code. This code identifies the vehicle's engine, specifications, and replacement

parts. See "Engine Specifications" under *Capacities and Specifications* ⇨ 326 for the vehicle's engine code.

Service Parts Identification Label

There may be a label under the carpet in the hatch/trunk area on the passenger side, that contains the following information:

- Vehicle Identification Number (VIN)
- Model designation
- Paint information
- Production options and special equipment

If there is no label, there is a barcode on the certification label on the center (B) pillar to scan for this same information.

Vehicle Data

Capacities and Specifications

The following approximate capacities are given in metric and English conversions.

See *Recommended Fluids and Lubricants* ⇨ 321.

Application	Capacities	
	Metric	English
Air Conditioning Refrigerant	For the air conditioning system refrigerant charge type and amount, see the refrigerant label under the hood. See your dealer for more information.	
Engine Cooling System		
LT1 and LT4 Engines with V08 Heavy Duty Cooling System	12.0 L	12.7 qt
LT1 and LT4 Engines without V08 Heavy Duty Cooling System	11.2 L	11.8 qt
LT5 Engine	13.1 L	13.8 qt
Intercooler System		
LT4 Engine	4.3 L	4.5 qt
LT5 Engine	5.0 L	5.3 qt
Engine Oil with Filter		
6.2L LT1 V8 Engine with Z51 or Grand Sport	9.3 L	9.8 qt

Application	Capacities	
	Metric	English
6.2L LT1 V8 Engine without Z51 or Grand Sport	6.6 L	7.0 qt
6.2L LT4 V8 Supercharged Engine	9.3 L	9.8 qt
6.2L LT5 V8 Supercharged Engine	9.3 L	9.8 qt
Fuel Tank	70.4 L	18.6 gal
Wheel Nut Torque	140 N•m	100 lb ft
All capacities are approximate. When adding, be sure to fill to the approximate level, as recommended in this manual. Recheck fluid level after filling		

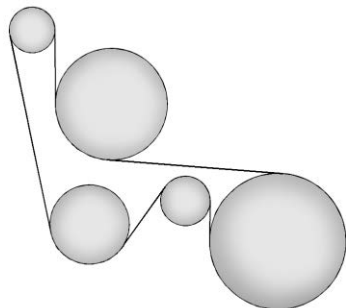
Engine Specifications

Engine	VIN Code	Transmission	Spark Plug Gap	Firing Order
6.2L LT1 V8 Engine	7	Automatic Manual	0.95–1.10 mm (0.037–0.043 in)	1–8–7–2–6–5–4–3
6.2L LT4 V8 Supercharged Engine	6	Automatic Manual	0.725–0.875 mm (0.029–0.034 in)	1–8–7–2–6–5–4–3
6.2L LT5 V8 Supercharged Engine	9	Automatic Manual	0.725–0.875 mm (0.029–0.034 in)	1–8–7–2–6–5–4–3

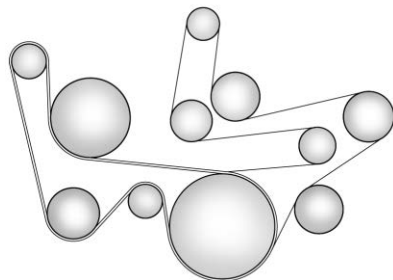
Engine Data

Engine	Horsepower	Torque	Displacement	Compression Ratio
6.2L LT1 V8 Engine	455	460 lb ft	6.2L	11.5:1
6.2L LT1 V8 Engine with Performance Exhaust	460	465 lb ft	6.2L	11.5:1
6.2L LT4 V8 Supercharged Engine	650	650 lb ft	6.2L	10.0:1
6.2L LT5 V8 Supercharged Engine	755	715 lb ft	6.2L	10.0:1

Engine Drive Belt Routing



6.2L LT1 Engine



**6.2L LT4 and LT5 Supercharged
Engines**

Customer Information

Customer Information

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Customer Information

Customer Satisfaction Procedure

Your satisfaction and goodwill are important to your dealer and to Chevrolet. Normally, any concerns with the sales transaction or the operation of the vehicle will be resolved by your dealer's sales or service departments. Sometimes, however, despite the best intentions of all concerned, misunderstandings can occur. If your concern has not been resolved to your satisfaction, the following steps should be taken:

STEP ONE : Discuss your concern with a member of dealership management. Normally, concerns can be quickly resolved at that level. If the matter has already been reviewed with the sales, service, or parts manager, contact the owner of your dealership or the general manager.

STEP TWO : If after contacting a member of dealership management, it appears your concern cannot be

resolved by your dealership without further help, in the U.S., call the Chevrolet Customer Assistance Center at 1-800-222-1020. In Canada, call General Motors of Canada Customer Care Centre at 1-800-263-3777 (English), or 1-800-263-7854 (French).

We encourage you to call the toll-free number in order to give your inquiry prompt attention. Have the following information available to give the Customer Assistance representative:

- Vehicle Identification Number (VIN). This is available from the vehicle registration or title, or the plate at the top left of the instrument panel and visible through the windshield.
- Dealership name and location.
- Vehicle delivery date and present mileage.

When contacting Chevrolet, remember that your concern will likely be resolved at a dealer's facility. That is why we suggest following Step One first.

STEP THREE — U.S. Owners :

Both General Motors and your dealer are committed to making sure you are completely satisfied with your new vehicle. However, if you continue to remain unsatisfied after following the procedure outlined in Steps One and Two, you can file with the Better Business Bureau (BBB) Auto Line Program to enforce your rights.

The BBB Auto Line Program is an out-of-court program administered by the Council of Better Business Bureaus to settle automotive disputes regarding vehicle repairs or the interpretation of the New Vehicle Limited Warranty. Although you may be required to resort to this informal dispute resolution program prior to filing a court action, use of the program is free of charge and your case will generally be heard within 40 days. If you do not agree with the decision given in your case, you may reject it and proceed with any other venue for relief available to you.

You may contact the BBB Auto Line Program using the toll-free telephone number or write them at the following address:

BBB Auto Line Program
Council of Better Business Bureaus, Inc.
3033 Wilson Boulevard
Suite 600
Arlington, VA 22201

Telephone: 1-800-955-5100
<http://www.bbb.org/council/programs-services/dispute-handling-and-resolution/bbb-auto-line>

This program is available in all 50 states and the District of Columbia. Eligibility is limited by vehicle age, mileage, and other factors. General Motors reserves the right to change eligibility limitations and/or discontinue its participation in this program.

STEP THREE — Canadian

Owners : In the event that you do not feel your concerns have been addressed after following the procedure outlined in Steps One

and Two, General Motors of Canada Company wants you to be aware of its participation in a no-charge Mediation/Arbitration Program. General Motors of Canada Company has committed to binding arbitration of owner disputes involving factory-related vehicle service claims. The program provides for the review of the facts involved by an impartial third party arbiter, and may include an informal hearing before the arbiter. The program is designed so that the entire dispute settlement process, from the time you file your complaint to the final decision, should be completed in about 70 days. We believe our impartial program offers advantages over courts in most jurisdictions because it is informal, quick, and free of charge.

For further information concerning eligibility in the Canadian Motor Vehicle Arbitration Plan (CAMVAP), call toll-free 1-800-207-0685, or call the General Motors Customer Care Centre, 1-800-263-3777 (English), 1-800-263-7854 (French), or write to:

The Mediation/Arbitration Program
c/o Customer Care Centre
General Motors of Canada
Company
Mail Code: CA1-163-005
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

Your inquiry should be accompanied by the Vehicle Identification Number (VIN).

Customer Assistance Offices

Chevrolet encourages customers to call the toll-free number for assistance. However, if a customer wishes to write or e-mail Chevrolet, the letter should be addressed to:

United States and Puerto Rico

Chevrolet Motor Division
Chevrolet Customer Assistance
Center
P.O. Box 33170
Detroit, MI 48232-5170
www.Chevrolet.com

1-800-222-1020
1-800-833-2438 (For Text
Telephone Devices (TTYs))
Roadside Assistance:
1-800-243-8872

From U.S. Virgin Islands:
1-800-496-9994

Canada

General Motors of Canada
Company
Customer Care Centre, Mail Code:
CA1-163-005
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7
www.gm.ca

1-800-263-3777 (English)
1-800-263-7854 (French)
1-800-263-3830 (For Text

Telephone devices (TTYs))
 Roadside Assistance:
 1-800-268-6800

Overseas

Please contact the local General Motors Business Unit.

Customer Assistance for Text Telephone (TTY) Users

To assist customers who are deaf, hard of hearing, or speech-impaired and who use Text Telephones (TTYs), Chevrolet has TTY equipment available at its Customer Assistance Center. Any TTY user in the U.S. can communicate with Chevrolet by dialing: 1-800-833-2438. TTY users in Canada can dial 1-800-263-3830.

Online Owner Center

Online Owner Experience (U.S.) my.chevrolet.com

The Chevrolet online owner experience allows interaction with Chevrolet and keeps important vehicle-specific information in one place.

Membership Benefits

 : Download owner's manuals and view vehicle-specific how-to videos.

 : View maintenance schedules, alerts, and Vehicle Diagnostic Information. Schedule service appointments.

 : View and print dealer-recorded service records and self-recorded service records.

 : Select a preferred dealer and view locations, maps, phone numbers, and hours.

 : Track your vehicle's warranty information.

 : View active recalls by Vehicle Identification Number (VIN). See *Vehicle Identification Number (VIN)*  325.

 : View GM Card, SiriusXM Satellite radio (if equipped), and OnStar account information (if equipped).

 : Chat with online help representatives.

See my.chevrolet.com to register your vehicle.

Chevrolet Owner Centre (Canada)

www.chevroletowner.ca

Visit the Chevrolet Owner Centre:

- Chat live with online help representatives.
- Locate owner resources such as lease-end, financing, and warranty information.
- Retrieve your favorite articles, quizzes, tips, and multimedia galleries organized into the Featured Articles and Auto Care Sections.

- Download owner's manuals.
- Find the Chevrolet-recommended maintenance services.

GM Mobility Reimbursement Program

GENERAL MOTORS MOBILITY



This program is available to qualified applicants for cost reimbursement, up to certain limits, of eligible aftermarket adaptive equipment required for the vehicle, such as hand controls or a wheelchair/scooter lift for the vehicle.

To learn about the GM Mobility program, see www.gmmobility.com or call the GM Mobility Assistance Center at 1-800-323-9935. Text Telephone (TTY) users, call 1-800-833-9935.

General Motors of Canada also has a Mobility program. See www.gm.ca or call 1-800-GM-DRIVE (800-463-7483) for details. TTY users call 1-800-263-3830.

Roadside Assistance Program

For U.S.-purchased vehicles, call 1-800-243-8872. (Text Telephone (TTY): 1-888-889-2438.)

For Canadian-purchased vehicles, call 1-800-268-6800.

Service is available 24 hours a day, 365 days a year.

Calling for Assistance

When calling Roadside Assistance, have the following information ready:

- Your name, home address, and home telephone number
- Telephone number of your location
- Location of the vehicle

- Model, year, color, and license plate number of the vehicle
- Odometer reading, Vehicle Identification Number (VIN), and delivery date of the vehicle
- Description of the problem

Coverage

Services are provided for the duration of the vehicle's powertrain warranty.

In the U.S., anyone driving the vehicle is covered. In Canada, a person driving the vehicle without permission from the owner is not covered.

Roadside Assistance is not a part of the New Vehicle Limited Warranty. General Motors North America and Chevrolet reserve the right to make any changes or discontinue the Roadside Assistance program at any time without notification.

General Motors North America and Chevrolet reserve the right to limit services or payment to an owner or

driver if they decide the claims are made too often, or the same type of claim is made many times.

Services Provided

- **Emergency Fuel Delivery:** Delivery of enough fuel for the vehicle to get to the nearest service station.
- **Lock-Out Service:** Service to unlock the vehicle if you are locked out. A remote unlock may be available if you have OnStar. For security reasons, the driver must present identification before this service is given.
- **Emergency Tow from a Public Road or Highway:** Tow to the nearest Chevrolet dealer for warranty service, or if the vehicle was in a crash and cannot be driven. Assistance is not given when the vehicle is stuck in the sand, mud, or snow.
- **Flat Tire Change:** Service to change a flat tire with the spare tire. The spare tire, if equipped, must be in good condition and properly inflated. It is the owner's

responsibility for the repair or replacement of the tire if it is not covered by the warranty.

- **Battery Jump Start:** Service to jump start a dead battery.
- **Trip Interruption Benefits and Assistance:** If your trip is interrupted due to a warranty event, incidental expenses may be reimbursed within the Powertrain warranty period. Items considered are reasonable and customary hotel, meals, rental car, or a vehicle being delivered back to the customer, up to 500 miles.

Services Not Included in Roadside Assistance

- Impound towing caused by violation of any laws
- Legal fines
- Mounting, dismounting, or changing of snow tires, chains, or other traction devices

Service is not provided if a vehicle is in an area that is not accessible to the service vehicle or is not a

regularly traveled or maintained public road, which includes ice and winter roads. Off-road use is not covered.

Services Specific to Canadian-Purchased Vehicles

- **Fuel Delivery:** Reimbursement is up to 7 liters. If available, diesel fuel delivery may be restricted. Propane and other fuels are not provided through this service.
- **Lock-Out Service:** Vehicle registration is required.
- **Trip Interruption Benefits and Assistance:** Must be over 150 km from where your trip was started to qualify. Pre-authorization, original detailed receipts, and a copy of the repair orders are required. Once authorization has been received, the Roadside Assistance advisor will help to make arrangements and explain how to receive payment.

- **Alternative Service:** If assistance cannot be provided right away, the Roadside Assistance advisor may give permission to get local emergency road service. You will receive payment, up to \$100, after sending the original receipt to Roadside Assistance. Mechanical failures may be covered, however any cost for parts and labor for repairs not covered by the warranty are the owner responsibility.

Scheduling Service Appointments

When the vehicle requires warranty service, contact your dealer and request an appointment. By scheduling a service appointment and advising the service consultant of your transportation needs, your dealer can help minimize your inconvenience.

If the vehicle cannot be scheduled into the service department immediately, keep driving it until it can be scheduled for service,

unless, of course, the problem is safety related. If it is, please call your dealership, let them know this, and ask for instructions.

If your dealer requests you to bring the vehicle for service, you are urged to do so as early in the work day as possible to allow for same-day repair.

Courtesy Transportation Program

To enhance your ownership experience, we and our participating dealers are proud to offer Courtesy Transportation, a customer support program for vehicles with the Bumper-to-Bumper (Base Warranty Coverage period in Canada), extended powertrain, and/or hybrid-specific warranties in both the U.S. and Canada.

Several Courtesy Transportation options are available to assist in reducing inconvenience when warranty repairs are required.

Courtesy Transportation is not a part of the New Vehicle Limited Warranty. A separate booklet entitled "Limited Warranty and Owner Assistance Information" furnished with each new vehicle provides detailed warranty coverage information.

Transportation Options

Warranty service can generally be completed while you wait. However, if you are unable to do so, your dealer may offer the following transportation options:

Shuttle Service

This includes one-way or round-trip shuttle service within reasonable time and distance parameters of your dealer's area.

Public Transportation or Fuel Reimbursement

If overnight warranty repairs are needed, and public transportation is used, the expense must be supported by original receipts and within the maximum amount allowed by GM for shuttle service. If U.S.

customers arrange their own transportation, limited reimbursement for reasonable fuel expenses may be available. Claim amounts should reflect actual costs and be supported by original receipts. See your dealer for information.

Courtesy Rental Vehicle

For an overnight warranty repair, the dealer may provide an available courtesy rental vehicle or provide for reimbursement of a rental vehicle. Reimbursement is limited and must be supported by original receipts as well as a signed and completed rental agreement and meet state/provincial, local, and rental vehicle provider requirements. Requirements vary and may include minimum age requirements, insurance coverage, credit card, etc. Additional fees such as fuel usage charges, taxes, levies, usage fees, excessive mileage, or rental usage beyond the completion of the repair are also your responsibility.

It may not be possible to provide a like vehicle as a courtesy rental.

Additional Program Information

All program options, such as shuttle service, may not be available at every dealer. Contact your dealer for specific availability.

General Motors reserves the right to unilaterally modify, change, or discontinue Courtesy Transportation at any time and to resolve all questions of claim eligibility pursuant to the terms and conditions described herein at its sole discretion.

Collision Damage Repair

If the vehicle is involved in a collision and it is damaged, have the damage repaired by a qualified technician using the proper equipment and quality replacement parts. Poorly performed collision repairs diminish the vehicle resale value, and safety performance can be compromised in subsequent collisions.

Collision Parts

Genuine GM Collision parts are new parts made with the same materials and construction methods as the parts with which the vehicle was originally built. Genuine GM Collision parts are the best choice to ensure that the vehicle's designed appearance, durability, and safety are preserved. The use of Genuine GM parts can help maintain the GM New Vehicle Limited Warranty.

Recycled original equipment parts may also be used for repair. These parts are typically removed from vehicles that were total losses in prior crashes. In most cases, the parts being recycled are from undamaged sections of the vehicle. A recycled original equipment GM part may be an acceptable choice to maintain the vehicle's originally designed appearance and safety performance; however, the history of these parts is not known. Such parts are not covered by the GM New Vehicle Limited Warranty, and any related failures are not covered by that warranty.

Aftermarket collision parts are also available. These are made by companies other than GM and may not have been tested for the vehicle. As a result, these parts may fit poorly, exhibit premature durability/corrosion problems, and may not perform properly in subsequent collisions. Aftermarket parts are not covered by the GM New Vehicle Limited Warranty, and any vehicle failure related to such parts is not covered by that warranty.

Repair Facility

GM also recommends that you choose a collision repair facility that meets your needs before you ever need collision repairs. Your dealer may have a collision repair center with GM-trained technicians and state-of-the-art equipment, or be able to recommend a collision repair center that has GM-trained technicians and comparable equipment.

Insuring the Vehicle

Protect your investment in the GM vehicle with comprehensive and collision insurance coverage. There are significant differences in the quality of coverage afforded by various insurance policy terms. Many insurance policies provide reduced protection to the GM vehicle by limiting compensation for damage repairs through the use of aftermarket collision parts. Some insurance companies will not specify aftermarket collision parts. When purchasing insurance, we recommend that you ensure that the vehicle will be repaired with GM original equipment collision parts. If such insurance coverage is not available from your current insurance carrier, consider switching to another insurance carrier.

If the vehicle is leased, the leasing company may require you to have insurance that ensures repairs with Genuine GM Original Equipment Manufacturer (OEM) parts or Genuine Manufacturer replacement

parts. Read the lease carefully, as you may be charged at the end of the lease for poor quality repairs.

If a Crash Occurs

If there has been an injury, call emergency services for help. Do not leave the scene of a crash until all matters have been taken care of. Move the vehicle only if its position puts you in danger, or you are instructed to move it by a police officer.

Give only the necessary information to police and other parties involved in the crash.

For emergency towing see *Roadside Assistance Program*
⇒ 334.

Gather the following information:

- Driver name, address, and telephone number
- Driver license number
- Owner name, address, and telephone number
- Vehicle license plate number

- Vehicle make, model, and model year
- Vehicle Identification Number (VIN)
- Insurance company and policy number
- General description of the damage to the other vehicle

Choose a reputable repair facility that uses quality replacement parts. See “Collision Parts” earlier in this section.

If the airbag has inflated, see *What Will You See after an Airbag Inflates?* ⇨ 77.

Managing the Vehicle Damage Repair Process

In the event that the vehicle requires damage repairs, GM recommends that you take an active role in its repair. If you have a pre-determined repair facility of choice, take the vehicle there, or have it towed there. Specify to the facility that any required replacement collision parts be original equipment parts, either new Genuine GM parts or recycled

original GM parts. Remember, recycled parts will not be covered by the GM vehicle warranty.

Insurance pays the bill for the repair, but you must live with the repair. Depending on your policy limits, your insurance company may initially value the repair using aftermarket parts. Discuss this with the repair professional, and insist on Genuine GM parts. Remember, if the vehicle is leased, you may be obligated to have the vehicle repaired with Genuine GM parts, even if your insurance coverage does not pay the full cost.

If another party's insurance company is paying for the repairs, you are not obligated to accept a repair valuation based on that insurance company's collision policy repair limits, as you have no contractual limits with that company. In such cases, you can have control of the repair and parts choices as long as the cost stays within reasonable limits.

Publication Ordering Information

Service Manuals

Service manuals have the diagnosis and repair information on the engine, transmission, axle, suspension, brakes, electrical system, steering system, body, etc.

Customer Literature

Owner's manuals are written specifically for owners and are intended to provide basic operational information about the vehicle. The owner's manual includes the Maintenance Schedule for all models.

Customer literature publications available for purchase include owner's manuals, warranty manuals, infotainment manuals, and portfolios. Portfolios include an owner's manual, warranty manual, infotainment manual, if applicable, and zip lock bag or pouch.

Current and Past Models

Service manuals and customer literature are available for many current and past model year GM vehicles.

To order, call 1-800-551-4123
Monday–Friday, 8:00 a.m.–6:00 p.m.
eastern time

For credit card orders only (VISA, MasterCard, or Discover), see Helm, Inc. at: www.helminc.com.

To order by mail, write to:

Helm, Incorporated
Attention: Customer Service
47911 Halyard Drive
Plymouth, MI 48170

Make checks payable in U.S. funds.

Radio Frequency Statement

This vehicle has systems that operate on a radio frequency that complies with Part 15/Part 18 of the Federal Communications Commission (FCC) rules and with Innovation, Science and Economic Development (ISED) Canada's RSP-100 / license-exempt RSS's / ICES-001.

Operation is subject to the following two conditions:

1. The device may not cause harmful interference.
2. The device must accept any interference received, including interference that may cause undesired operation of the device.

Changes or modifications to any of these systems by other than an authorized service facility could void authorization to use this equipment.

Reporting Safety Defects

Reporting Safety Defects to the United States Government

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying General Motors.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or General Motors.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to <http://www.safercar.gov>; or write to:

Administrator, NHTSA
1200 New Jersey Avenue, S.E.
Washington, D.C. 20590

You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

Reporting Safety Defects to the Canadian Government

If you live in Canada, and you believe that the vehicle has a safety defect, notify Transport Canada immediately, and notify General Motors of Canada Company. Call Transport Canada at 1-800-333-0510; go to:

www.tc.gc.ca/recalls (English)

www.tc.gc.ca/rappels (French)

or write to:

Transport Canada
Motor Vehicle Safety Directorate
Defect Investigations and
Recalls Division
80 Noel Street
Gatineau, QC J8Z 0A1

Reporting Safety Defects to General Motors

In addition to notifying NHTSA (or Transport Canada) in a situation like this, notify General Motors.

In the U.S., call 1-800-222-1020, or write:

Chevrolet Motor Division
Chevrolet Customer Assistance
Center
P.O. Box 33170
Detroit, MI 48232-5170

In Canada, call 1-800-263-3777 (English) or 1-800-263-7854 (French), or write:

General Motors of Canada
Company
Customer Care Centre, Mail Code:
CA1-163-005
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

In Mexico, call 01-800-466-0811.

In other Central America and Caribbean Countries, call 52-722-236-0680.

Vehicle Data Recording and Privacy

The vehicle has a number of computers that record information about the vehicle's performance and how it is driven. For example, the vehicle uses computer modules to monitor and control engine and transmission performance, to monitor the conditions for airbag deployment and deploy them in a crash, and, if equipped, to provide antilock braking to help the driver control the vehicle. These modules may store data to help the dealer technician service the vehicle. Some modules may also store data about how the vehicle is operated, such as rate of fuel consumption or average speed. These modules may retain personal preferences, such as radio presets, seat positions, and temperature settings.

Event Data Recorders

This vehicle is equipped with an event data recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur.

Note

EDR data are recorded by your vehicle only if a non-trivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g., name, gender, age, and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR.

GM will not access these data or share it with others except: with the consent of the vehicle owner or, if the vehicle is leased, with the consent of the lessee; in response to an official request by police or similar government office; as part of GM's defense of litigation through the discovery process; or, as required by law. Data that GM collects or receives may also be used for GM research needs or may be made available to others for research purposes, where a need is shown and the data is not tied to a specific vehicle or vehicle owner.

OnStar

If the vehicle is equipped with OnStar and has an active service plan, additional data may be collected through the OnStar system. This includes information about the vehicle's operation; collisions involving the vehicle; the use of the vehicle and its features; and, in certain situations, the location and approximate GPS speed of the vehicle. Refer to the

OnStar Terms and Conditions and Privacy Statement on the OnStar website.

See *OnStar Additional Information*
⇒ 346.

Infotainment System

If the vehicle is equipped with a navigation system as part of the infotainment system, use of the system may result in the storage of destinations, addresses, telephone numbers, and other trip information. See the infotainment manual for information on stored data and for deletion instructions.

OnStar

OnStar Overview

OnStar Overview 344

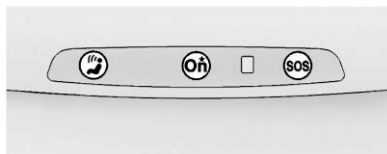
OnStar Services

Emergency 346
Security 346

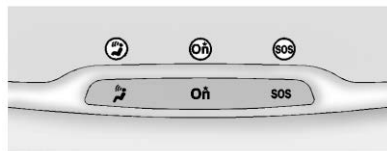
OnStar Additional Information

OnStar Additional
Information 346

OnStar Overview



Manual Rearview Mirror



Automatic Dimming Rearview Mirror

-  Voice Command Button
-  Blue OnStar Button
-  Red Emergency Button

This vehicle may be equipped with a comprehensive, in-vehicle system that can connect to an OnStar Advisor for Emergency, Security, Navigation, Connections, and Diagnostics Services. OnStar services may require a paid service

plan and data plan. OnStar requires the vehicle battery and electrical system, cellular service, and GPS satellite signals to be available and operating. OnStar acts as a link to existing emergency service providers. OnStar may collect information about you and your vehicle, including location information. See OnStar's User Terms, Privacy Statement, and Software Terms for more details including system limitations at www.onstar.com (U.S.) or www.onstar.ca (Canada).

Manual and Automatic Dimming Rearview Mirrors

- Press the mirror controls. If OnStar does not respond, adjust finger position or remove any gloves.
- Avoid touching the controls while adjusting the mirror. To cancel a command press .
- Clean the mirror while the vehicle is off to avoid making calls.

Status Indicator

The OnStar system status light is next to the OnStar controls on the manual rearview mirror.

If the status light is:

- Solid Green: System is ready.
- Flashing Green: On a call.
- Red: Indicates a problem.
- Off: System is off. Press  twice to speak with an OnStar Advisor.

For the automatic dimming rearview mirror, the status is provided through the Display on Demand Icons.

- Three Color Icons: The system is enabled and active.
- No Icons: The vehicle is in motion or the OnStar or connected service plan is inactive.
- Blinking: Button has been pressed.
- Solid: On a call.

- : Indicates a problem.

OnStar Commands

Press  or call 1-888-4ONSTAR (1-888-466-7827) to speak to an Advisor.

Functionality of the Voice Command button may vary by vehicle and region.

Press  to:

- Open the OnStar app on the infotainment display. See the infotainment manual for information on how to use the OnStar app.
- OR
- Make a call, end a call, or answer an incoming call.
 - Give OnStar Hands-Free Calling voice commands.
 - Give OnStar Turn-by-Turn Navigation voice commands.
 - Obtain and customize the Wi-Fi[®] network name or SSID, and password, if equipped.

Press  to connect to an Advisor to:

- Verify account information or update contact information.
- Get driving directions.
- Receive a Diagnostic check of the vehicle's key operating systems.
- Receive Roadside Assistance.
- Manage Wi-Fi Settings, if equipped.

Press  to get a priority connection to an OnStar Advisor available 24/7 to:

- Get help for an emergency.
- Be a Good Samaritan or respond to an AMBER Alert.
- Get assistance in severe weather or other crisis situations and find evacuation routes.

OnStar Services

Emergency

Emergency Services require an active safety and security plan. With Automatic Crash Response, built-in sensors can automatically alert a specially trained OnStar Advisor who is immediately connected in to the vehicle to help.

Press  for a priority connection to an OnStar Advisor who can contact emergency service providers, direct them to your exact location, and relay important information.

With OnStar Crisis Assist, specially trained Advisors are available 24 hours a day, 7 days a week, to provide a central point of contact, assistance, and information during a crisis.

With Roadside Assistance, Advisors can locate a nearby service provider to help with a flat tire, a battery jump, or an empty gas tank.

Security

If equipped, OnStar provides these services:

- With Stolen Vehicle Assistance, OnStar Advisors can use GPS to pinpoint the vehicle and help authorities quickly recover it.
- With Remote Ignition Block, if equipped, OnStar can block the engine from being restarted.
- With Stolen Vehicle Slowdown, if equipped, OnStar can work with law enforcement to gradually slow the vehicle down.

Theft Alarm Notification

If equipped, if the doors are locked and the vehicle alarm sounds, a notification by text, e-mail, or phone call will be sent. If the vehicle is stolen, an OnStar Advisor can work with authorities to recover the vehicle.

OnStar Additional Information

In-Vehicle Audio Messages

Audio messages may play important information at the following times:

- Prior to vehicle purchase. Press  to set up an account.
- After change in ownership and at 90 days.

Transferring Service

Press  to request account transfer eligibility information. The Advisor can cancel or change account information.

Selling/Transferring the Vehicle

Call 1-888-4ONSTAR (1-888-466-7827) immediately to terminate your OnStar or connected services if the vehicle is disposed of, sold, transferred, or if the lease ends.

Reactivation for Subsequent Owners

Press  and follow the prompts to speak to an Advisor as soon as possible. The Advisor will update vehicle records and explain OnStar or connected service options.

How OnStar Service Works

Automatic Crash Response, Emergency Services, Crisis Assist, Stolen Vehicle Assistance, Remote Services, Roadside Assistance, and Hands-Free Calling are available on most vehicles. Not all OnStar services are available everywhere or on all vehicles. For more information, a full description of OnStar services, system limitations, and OnStar User Terms, Privacy Statement, and Software Terms:

- Call 1-888-4ONSTAR (1-888-466-7827).
- See www.onstar.com (U.S.).
- See www.onstar.ca (Canada).
- Call TTY 1-877-248-2080.

- Press  to speak with an Advisor.

OnStar or connected services cannot work unless the vehicle is in a place where OnStar has an agreement with a wireless service provider for service in that area. The wireless service provider must also have coverage, network capacity, reception, and technology compatible with OnStar or connected services. Service involving location information about the vehicle cannot work unless GPS signals are available, unobstructed, and compatible with the OnStar hardware. OnStar or connected services may not work if the OnStar equipment is not properly installed or it has not been properly maintained. If equipment or software is added, connected, or modified, OnStar or connected services may not work. Other problems beyond the control of OnStar — such as hills, tall buildings, tunnels, weather, electrical system design and architecture of the vehicle, damage

to the vehicle in a crash, or wireless phone network congestion or jamming — may prevent service.

See *Radio Frequency Statement*
 340.

Services for People with Disabilities

Advisors provide services to help with physical disabilities and medical conditions.

Press  to help:

- Locate a gas station with an attendant to pump gas.
- Find a hotel, restaurant, etc., that meets accessibility needs.
- Provide directions to the closest hospital or pharmacy in urgent situations.

TTY Users

OnStar has the ability to communicate to deaf, hard-of-hearing, or speech-impaired customers while in the vehicle. The available dealer-installed TTY system can provide in-vehicle

access to all OnStar services, except Virtual Advisor and OnStar Turn-by-Turn Navigation.

OnStar Personal Identification Number (PIN)

A PIN is needed to access some OnStar services. The PIN will need to be changed the first time when speaking with an Advisor. To change the OnStar PIN, contact an OnStar Advisor by pressing **ⓞ** or calling 1-888-4ONSTAR.

Warranty

OnStar equipment may be warranted as part of the vehicle warranty.

Languages

The vehicle can be programmed to respond in multiple languages. Press **ⓞ** and ask for an Advisor. Advisors are available in English, Spanish, and French. Available languages may vary by country.

Potential Issues

OnStar cannot perform Remote Door Unlock or Stolen Vehicle Assistance after the vehicle has been off continuously for 10 days without an ignition cycle. If the vehicle has not been started for 10 days, OnStar can contact Roadside Assistance or a locksmith to help gain access to the vehicle.

Global Positioning System (GPS)

- Obstruction of the GPS can occur in a large city with tall buildings; in parking garages; around airports; in tunnels and underpasses; or in an area with very dense trees. If GPS signals are not available, the OnStar system should still operate to call OnStar. However, OnStar could have difficulty identifying the exact location.
- In emergency situations, OnStar can use the last stored GPS location to send to emergency responders.

A temporary loss of GPS can cause loss of the ability to send a Turn-by-Turn Navigation route. The Advisor may give a verbal route or may ask for a call back after the vehicle is driven into an open area.

Cellular and GPS Antennas

Cellular reception is required for OnStar to send remote signals to the vehicle. Do not place items over or near the antenna to prevent blocking cellular and GPS signal reception.

Unable to Connect to OnStar Message

If there is limited cellular coverage or the cellular network has reached maximum capacity, this message may come on. Press **ⓞ** to try the call again or try again after driving a few miles into another cellular area.

Vehicle and Power Issues

OnStar services require a vehicle electrical system, wireless service, and GPS satellite technologies to be available and operating for features

to function properly. These systems may not operate if the battery is discharged or disconnected.

Add-on Electrical Equipment

The OnStar system is integrated into the electrical architecture of the vehicle. Do not add any electrical equipment. See *Add-On Electrical Equipment* ⇨ 216. Added electrical equipment may interfere with the operation of the OnStar system and cause it to not operate.

Vehicle Software Updates

OnStar or GM may remotely deliver software updates or changes to the vehicle without further notice or consent. These updates or changes may enhance or maintain safety, security, or the operation of the vehicle or the vehicle systems. Software updates or changes may affect or erase data or settings that are stored in the vehicle, such as OnStar Hands-Free Calling name tags, saved navigation destinations, or pre-set radio stations. Neither OnStar nor GM is responsible for any affected or erased data or

settings. These updates or changes may also collect personal information. Such collection is described in the OnStar privacy statement or separately disclosed at the time of installation. These updates or changes may also cause a system to automatically communicate with GM servers to collect information about vehicle system status, identify whether updates or changes are available, or deliver updates or changes. An active OnStar agreement constitutes consent to these software updates or changes and agreement that either OnStar or GM may remotely deliver them to the vehicle.

Privacy

The complete OnStar Privacy Statement may be found at www.onstar.com (U.S.), or www.onstar.ca (Canada). We recommend that you review it. If you have any questions, call 1-888-4ONSTAR (1-888-466-7827) or press  to speak with an Advisor. Users of wireless communications are cautioned that

the privacy of any information sent via wireless cellular communications cannot be assured. Third parties may unlawfully intercept or access transmissions and private communications without consent.

OnStar - Software Acknowledgements

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www.onstar.com/us/en/

libcurl:

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Connected Services

Connected Services

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Connected Services

Navigation

Navigation requires a specific OnStar or connected service plan.

Press  to receive Turn-by-Turn directions or have them sent to the vehicle navigation screen, if equipped.

Turn-by-Turn Navigation

1. Press  to connect to an Advisor.
2. Request directions to be downloaded to the vehicle.
3. Follow the voice-guided commands.

Using Voice Commands During a Planned Route

Functionality of the Voice Command button, if equipped, may vary by vehicle and region. For some vehicles, press  to open the

OnStar app on the infotainment display. For other vehicles press  as follows.

Cancel Route

1. Press . System responds: "OnStar ready," then a tone.
2. Say "Cancel route." System responds: "Do you want to cancel directions?"
3. Say "Yes." System responds: "OK, request completed, thank you, goodbye."

Route Preview

1. Press . System responds: "OnStar ready," then a tone.
2. Say "Route preview." System responds with the next three maneuvers.

Repeat

1. Press . System responds: "OnStar ready," then a tone.

2. Say "Repeat." System responds with the last direction given, then responds with "OnStar ready," then a tone.

Get My Destination

1. Press . System responds: "OnStar ready," then a tone.
2. Say "Get my destination." System responds with the address and distance to the destination, then responds with "OnStar ready," then a tone.

Send Destination to Vehicle

Directions can be sent to the vehicle's navigation screen, if equipped.

Press  then ask the Advisor to download directions to the vehicle's navigation system, if equipped. After the call ends, the navigation screen will provide prompts to begin driving directions. Routes that are sent to the navigation screen can only be canceled through the navigation system.

See www.onstar.com (U.S.) or www.onstar.ca (Canada).

Connections

The following services help with staying connected.

For coverage maps, see www.onstar.com (U.S.) or www.onstar.ca (Canada).

Ensuring Security

- Change the default passwords for the Wi-Fi hotspot and myChevrolet mobile application. Make these passwords different from each other and use a combination of letters, numbers, and symbols to increase the security.
- Change the default name of the SSID (Service Set Identifier). This is your network's name that is visible to other wireless devices. Choose a unique name and avoid family names or vehicle descriptions.

Wi-Fi Hotspot (If Equipped)

The vehicle may have a built-in Wi-Fi hotspot that provides access to the Internet and web content at 4G LTE speed. Up to seven mobile devices can be connected. A data plan is required. Use the in-vehicle controls only when it is safe to do so.

1. To retrieve Wi-Fi hotspot information, press  to open the OnStar app on the infotainment display, then select Wi-Fi Hotspot. On some vehicles, touch Wi-Fi or Wi-Fi Settings on the screen.
2. The Wi-Fi settings will display the Wi-Fi hotspot name (SSID), password, and on some vehicles, the connection type (no Internet connection, 3G, 4G, 4G LTE), and signal quality (poor, good, excellent).
3. To change the SSID or password, press  or call 1-888-4ONSTAR to connect with an Advisor. On some

vehicles, the SSID and password can be changed in the Wi-Fi Hotspot menu.

After initial set-up, your vehicle's Wi-Fi hotspot will connect automatically to your mobile devices. Manage data usage by turning Wi-Fi on or off on your mobile device, using the myChevrolet mobile app, or by contacting an OnStar Advisor. On some vehicles, Wi-Fi can also be managed from the Wi-Fi Hotspot menu.

MyChevrolet Mobile App (If Available)

Download the myChevrolet mobile app to compatible Apple and Android smartphones. Chevrolet users can access the following services from a smartphone:

- Remotely start/stop the vehicle, if factory-equipped.
- Lock/unlock doors, if equipped with automatic locks.
- Activate the horn and lamps.

- Check the vehicle's fuel level, oil life, or tire pressure, if factory-equipped with the Tire Pressure Monitor System.
- Send destinations to the vehicle.
- Locate the vehicle on a map (U.S. market only).
- Turn the vehicle's Wi-Fi hotspot on/off, manage settings, and monitor data consumption, if equipped.
- Locate a dealer and schedule service.
- Request roadside assistance.
- Set a parking reminder with pin drop, take a photo, make a note, and set a timer.
- Connect with Chevrolet on social media.

Features are subject to change. For myChevrolet mobile app information and compatibility, see my.chevrolet.com.

An active OnStar or connected service plan may be required. A compatible device,

factory-installed remote start, and power locks are required. Data rates apply. See www.onstar.com for details and system limitations.

Remote Services

Contact an OnStar Advisor to unlock the doors or sound the horn and flash the lamps.

Marketplace

OnStar Advisors can provide offers from restaurants and retailers on your route, help locate hotels, or book a room. These services vary by market.

OnStar Hands-Free Calling

Make and receive calls with the built-in wireless calling service, which requires available minutes. Functionality of the Voice Command button may vary by vehicle and region. For some vehicles, press  to open the OnStar app on the infotainment display, then select Hands-Free calling. For other vehicles press  as follows.

Make a Call

1. Press . System responds: "OnStar ready."
2. Say "Call." System responds: "Call. Please say the name or number to call."
3. Say the entire number without pausing, including a "1" and the area code. System responds: "OK, calling."

Calling 911 Emergency

1. Press . System responds: "OnStar ready."
2. Say "Call." System responds: "Call. Please say the name or number to call."
3. Say "911" without pausing. System responds: "911."
4. Say "Call." System responds: "OK, dialing 911."

Retrieve My Number

1. Press . System responds: "OnStar ready."
2. Say "My number." System responds: "Your OnStar Hands-Free Calling number is," then says the number.

End a Call

Press . System responds: "Call ended."

Verify Minutes and Expiration

Press  and say "Minutes" then "Verify" to check how many minutes remain and their expiration date.

Diagnostics

By monitoring and reporting on the vehicle's key systems, OnStar Advanced Diagnostics, if equipped, provides a way to keep up on maintenance. Capabilities vary by model. See www.onstar.com for details and system limitations. Features are subject to change. For updates on feature capabilities, see my.chevrolet.com. Message and data rates may apply.

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WARNING

Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.



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