



2015

TRAX



2015 Chevrolet TRAX Owner Manual 🕮

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

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

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

Keep this manual in the vehicle for quick reference.

Canadian Vehicle Owners

Propriétaires Canadiens

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

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

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

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.

About Driving the Vehicle

As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or an accident. Be sure to read the driving guidelines in this manual in the section called "Driving and Operating" and specifically Driver Behavior on page 9-2, Driving Environment on page 9-2, and Vehicle Design on page 9-2.

Danger, Warnings, and Cautions

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.

Marning

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.

: This symbol is shown when you need to see your owner manual for additional instructions or information.

: This symbol is shown when you need to see a service manual for additional instructions or information.

Vehicle Symbol Chart

Here are some additional symbols that may be found on the vehicle and what they mean. For more information on the symbol, refer to the Index.

☆: Airbag Readiness Light

☆: Air Conditioning

(ABS): Antilock Brake System (ABS)

** : Audio Steering Wheel Controls or OnStar* (if equipped)

(I): Brake System Warning Light

: Charging System

: Cruise Control

: Engine Coolant Temperature

- : Exterior Lamps

₽: Fog Lamps

: Fuel Gauge

🗗: Fuses

ED: Headlamp High/Low-Beam Changer

2: LATCH System Child Restraints

仁: Malfunction Indicator Lamp

≅ : Oil Pressure

U்: Power

Q: Remote Vehicle Start

Safety Belt Reminders

: Tire Pressure Monitor

♬: Traction Control/StabiliTrak®

: Windshield Washer Fluid

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In Brief

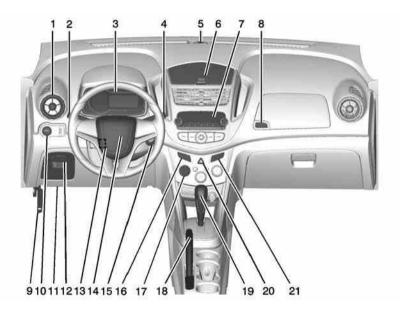
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OnStar [®]

Instrument Panel



- 1. Air Vents on page 8-4.
- 2. Turn Signal Lever. See Turn and Lane-Change Signals on page 6-4.

Headlamp High/Low-Beam Changer on page 6-2.

- 3. Instrument Cluster on page 5-9.
- Windshield Wiper/Washer on page 5-3.
 Rear Window Wiper/Washer on

Rear Window Wiper/Washer or page 5-4.

- 5. Light Sensor. See Automatic Headlamp System on page 6-3.
- 6. Instrument Panel Storage on page 4-1.
- 7. Infotainment on page 7-1.
- 8. Instrument Panel Storage on page 4-1 (If Equipped).
- 9. Hood Release. See *Hood on* page 10-4.

- Exterior Lamp Controls on page 6-1.
 Instrument Panel Illumination Control on page 6-5.
 - Front Fog Lamps on page 6-4.
- Data Link Connector (DLC)
 (Out of View). See Malfunction Indicator Lamp on page 5-13.
- 12. Instrument Panel Storage on page 4-1 (If Equipped).
- 13. Steering Wheel Adjustment on page 5-2.
- 14. Horn on page 5-3.
- 15. Ignition Positions on page 9-15.
- Traction Control/Electronic Stabilty Control Button. See Traction Control/Electronic Stability Control on page 9-31.
- 17. Climate Control Systems on page 8-1.
- 18. Parking Brake on page 9-30.

- 19. Shift Lever. See Automatic Transmission on page 9-23 or Manual Transmission on page 9-26.
- 20. Hazard Warning Flashers on page 6-3.
- 21. Passenger Safety Belt Reminder Light. See Safety Belt Reminders on page 5-11.

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 manual.

Remote Keyless Entry (RKE) System

The RKE transmitter may work up to 30 m (98 ft) away from the vehicle.



Press the key release button to extend the key blade. The key can be used for the ignition and all locks.

: Press to unlock the driver door, all doors, or, if equipped, the locking fuel door. The hazard warning flashers may flash.

: Press to lock the doors, or, if equipped, the locking fuel door.

Lock and unlock feedback can be personalized. See *Vehicle Personalization on page 5-28*.

⇒: If equipped, press and hold briefly to initiate vehicle locator. Press and hold for at least three seconds to sound the panic alarm. Press again to cancel the panic alarm.

See Keys on page 2-1 and Remote Keyless Entry (RKE) System Operation on page 2-3.

Remote Vehicle Start

For vehicles with this feature, the engine can be started from outside the vehicle.

Starting the Vehicle

- 1. Aim the RKE transmitter at the vehicle.
- 2. Press and release 🕣
- Immediately after completing Step 2, press and hold for several seconds or until the turn signal lamps flash.

When the engine starts, the parking lamps will turn on and remain on as long as the engine is running. The doors will be locked and the climate control system may come on.

The engine will continue to run for 10 minutes. Repeat the steps for a 10-minute time extension. Remote start can be extended only once.

Canceling a Remote Start

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

- Aim the RKE transmitter at the vehicle and press and hold Q until the parking lamps turn off.
- Turn on the hazard warning flashers.
- Turn the vehicle on and then off.

See Remote Vehicle Start on page 2-5.

Door Locks

To lock or unlock a door manually:

- From the inside, to lock the door, use the lock knob on the top of the door panel.
- From the outside, turn the key toward the front or rear of the vehicle, or press on the Remote Keyless Entry (RKE) transmitter.

Power Door Locks



: Press to unlock the doors.

: Press to lock the doors.

See Power Door Locks on page 2-7.

Liftgate



To open the liftgate, press on the door lock switch or on the Remote Keyless Entry (RKE) transmitter to unlock all doors, then use the touch pad on the trunk.

Press on the door lock switch or on the RKE transmitter to lock the liftgate.

1-6 In Brief

See Remote Keyless Entry (RKE) System Operation on page 2-3. See Liftgate on page 2-9.

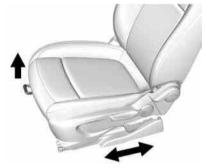
Windows



Press the switch to lower the window. Pull up on the front edge of the switch to raise it. See *Power Windows on page 2-14*.

The switches work when the vehicle is in ON/RUN or ACC/ ACCESSORY, or when Retained Accessory Power (RAP) is active. See Retained Accessory Power (RAP) on page 9-19.

Seat Adjustment Manual Seats



To adjust a manual seat:

- 1. Pull the handle at the front of the seat.
- 2. Slide the seat to the desired position and release the handle.

Try to move the seat back and forth to be sure it is locked in place.

Height Adjustment



If available, move the lever up or down to manually raise or lower the seat.

See Seat Adjustment on page 3-4.

Power Seats



To adjust the power driver seat, if available:

- 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 entire seat by moving the rear of the control up or down.

See Power Seat Adjustment on page 3-4.

Lumbar Adjustment



Manual Seat Shown, Power Seat Similar

If available, press the front or rear of the switch to increase or decrease lumbar support. Release the switch when the desired level of support is reached.

See Lumbar Adjustment on page 3-5.

Reclining Seatbacks



Manual Seat Shown, Power Seat Similar

To recline the seatback:

- Lift the lever.

 If necessary, move the safety
 belt out of the way to access the
 lever.
- 2. Move the seatback to the desired position, then release the lever to lock the seatback in place.
- Push and pull on the seatback to make sure it is locked.

To return the seatback to an upright position:

- Lift the lever fully without applying pressure to the seatback, and the seatback returns to the upright position.
- 2. Push and pull on the seatback to make sure it is locked.

See Reclining Seatbacks on page 3-5.

Second Row Seats

The rear seatbacks can be folded down to increase cargo space.

See Rear Seats on page 3-9.

Heated Seats



If available, the controls are on the climate control panel. To operate, the engine must be running.

Press ₩ or ₩ to heat the driver or passenger seat.

See Heated Front Seats on page 3-7.

Head Restraint Adjustment

Do not drive until the head restraints for all occupants are installed and adjusted properly.

To achieve a comfortable seating position, change the seatback recline angle as little as necessary while keeping the seat and the head restraint height in the proper position.

See Head Restraints on page 3-2 and Seat Adjustment on page 3-4.

Safety Belts



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

- Safety Belts on page 3-13.
- How to Wear Safety Belts Properly on page 3-14.
- Lap-Shoulder Belt (U.S. and Canada) on page 3-15 or Lap-Shoulder Belt (Mexico) on page 3-20.

 Lower Anchors and Tethers for Children (LATCH System) on page 3-50.

Passenger Sensing System (U.S. and Canada)



United States



Canada

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

passenger sensing system. See Passenger Sensing System (U.S. and Canada) on page 3-36 for important information.

The passenger airbag status indicator will be visible on the instrument panel when the vehicle is started. See Passenger Airbag Status Indicator (U.S. and Canada) on page 5-12.

Mirror Adjustment

Exterior Mirrors



To adjust the mirrors:

- Turn the selector switch to L (Left) or R (Right) to choose the driver or passenger mirror.
- 2. Move the control to adjust the mirror.
- 3. Turn the selector switch to O to deselect the mirror.

Interior Mirror

Adjustment

Adjust the rearview mirror to get a clear view of the area behind the vehicle.

Manual Rearview Mirror

If equipped, push the tab forward for daytime use and pull it for nighttime use to avoid the glare of headlamps from behind. See *Manual Rearview Mirror on page 2-13*.

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.

See Automatic Dimming Rearview Mirror on page 2-13.

Steering Wheel Adjustment



To adjust the steering wheel:

- 1. Pull the lever down.
- 2. Move the steering wheel up, down, forward, and backward.
- 3. Pull the lever up to lock the steering wheel in place.

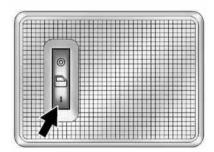
Do not adjust the steering wheel while driving.

Interior Lighting Front and Rear Dome Lamps



The front dome lamp controls are in the overhead console.

: When the button is returned to the middle position, the lamps turn on automatically when a door is opened.



The rear dome lamp controls are in the headliner above the rear seats.

: Press to turn the lamps off, even when a door is open.

: When the button is returned to the middle position, the lamps turn on automatically when a door is opened.

: Press to turn on the dome lamps.

Reading Lamps



The front reading lamps are in the overhead console.

or are: Press to turn each lamp on or off.

For more information about interior lighting, see *Instrument Panel Illumination Control on page 6-5* or *Courtesy Lamps on page 6-5*.

Exterior Lighting



The exterior lamp control is to the left of the steering column on the instrument panel.

There are four positions:

じ: Briefly turn to this position to turn the automatic lamp control off or on again.

AUTO: If equipped with the auto headlamp system, it turns the headlamps on automatically at normal brightness, together with the parking lamps, taillamps, license plate lamps, sidemarker lamps, and instrument panel lights.

-005: Turns on the parking lamps including all lamps except the headlamps.

D: Turns on the headlamps together with the parking lamps and instrument panel lights. A warning chime sounds if the driver door is opened when the ignition switch is off and the headlamps are on.

D: If equipped with fog lamps, press to turn the lamps on or off.

See:

- Exterior Lamp Controls on page 6-1
- Front Fog Lamps on page 6-4

Windshield Wiper/Washer



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

Move the lever to one of the following positions:

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.

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

Rear Window Wiper/Washer

If equipped with the rear wiper/ washer, the controls are on the end of the windshield wiper lever.

ON: Press the upper portion of the button for continuous rear window wipes.

OFF: The rear wiper turns off when the button is returned to the middle position.

INT (Intermittent Rear Wipes):

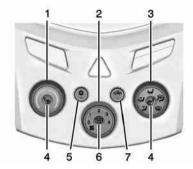
Press the lower portion of the button to set a delay between wipes.

TW REAR (Rear Washer): Push the windshield wiper lever forward to spray washer fluid on the rear window. The lever returns to its starting position when released.

See Windshield Wiper/Washer on page 5-3 and Rear Window Wiper/ Washer on page 5-4 (If Equipped).

Climate Controls

If equipped with these climate control systems, the heating, cooling, and ventilation can be controlled for the vehicle.



Climate Control System with Heater and Air Conditioning

- 1. Temperature Control
- 2. Fan Control
- 3. Air Delivery Mode Control
- Driver and Passenger Heated Seats
- 5. Air Conditioning
- 6. Rear Window Defogger
- 7. Recirculation



Climate Control System with Heater Only

- 1. Temperature Control
- 2. Fan Control
- 3. Air Delivery Mode Control
- 4. Rear Window Defogger

See Climate Control Systems on page 8-1.

TransmissionDriver Shift Control (DSC)

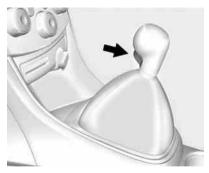


DSC allows you to shift an automatic transmission similar to a manual transmission. To use the DSC feature:

 Move the shift lever from D (Drive) rearward to M (Manual). Press the + (plus) end of the button on the side of the shift lever to upshift, or push the – (minus) end of the button to downshift.

See Manual Mode on page 9-25.

Manual Transmission



To engage R (Reverse), with the vehicle stationary, pull up on the button on the selector lever and engage the gear. If the gear does not engage, set the lever in Neutral, release the clutch pedal and apply it again; then repeat gear selection.

See Manual Transmission on page 9-26.

Up-Shift Light



If the vehicle has a manual transmission, it may have an up-shift light that indicates when to shift to the next higher gear for the best fuel economy.

See Manual Transmission on page 9-26.

Vehicle Features

Radio(s)

Radio Controls without Touchscreen

U/VOL: Press to turn the system on and off. Turn to increase or decrease the volume.

RADIO/BAND: Press to select AM, FM, or SiriusXM[®] (if equipped).

Buttons 1–6: Press to save and select favorite stations.

INFO: Press to view current radio information.

For more information about these and other radio features, see *Operation on page 7-8*.

Storing a Favorite Station

Stations from all bands can be stored in the favorite lists in any order. Up to six stations can be stored in each favorite page and the number of available favorite pages can be set.

To store the station to a position in the list, press the corresponding button 1–6 until a beep is heard.

See "Storing a Station as a Favorite" in *AM-FM Radio on page 7-11*.

Radio Controls with Touchscreen

Audio Source Menu

VOL ∧: Press to increase or decrease the volume.

Ů: Press and hold to turn the system on and off.

🗗: Press to enter the Home Page.

Storing a Favorite Station

Stations from all bands can be stored in any order in the favorite pages.

Up to five stations can be stored in each of the seven favorites pages.

Storing Stations

To store the station to a position in the list, press the corresponding button 1–5 until a beep is heard.

- 1. Select the desired station.
- Press

 or
 to select the desired page of saved favorites.



 Hold down any of the preset buttons to save the current radio station to that button of the selected favorites page.

To change a preset button, tune to the new desired radio station and hold the button. See "Storing a Station as a Favorite" in "Playing the Radio with Touchscreen" under AM-FM Radio on page 7-11.

Setting the Clock

See Clock on page 5-5.

Satellite Radio

If equipped, vehicles with a SiriusXM® satellite radio tuner and a valid SiriusXM satellite radio subscription can receive SiriusXM programming.

SiriusXM Satellite Radio Service

SiriusXM is a satellite radio service based in the 48 contiguous United States and 10 Canadian provinces. SiriusXM satellite radio has a wide variety of programming and commercial-free music, coast to coast, and in digital-quality sound. A fee is required to receive the SiriusXM service.

Refer to:

- www.siriusxm.com or call 1-866-635-2349 (U.S.).
- www.xmradio.ca or call 1-877-209-0079 (Canada).

See Satellite Radio on page 7-15.

Portable Audio Devices

There is a USB port in the storage area to the right of the infotainment system. If equipped, there is a 3.5 mm (1/8 in) AUX input jack on the front of the infotainment system. External devices such as iPods[®], laptop computers, MP3 players, CD changers, and USB storage devices may be connected, depending on the audio system.

See USB Port on page 7-20 and Auxiliary Devices on page 7-24.

Bluetooth[®]

The Bluetooth® system allows users with a Bluetooth-enabled mobile phone to make and receive hands-free calls using the vehicle audio system and controls.

The Bluetooth-enabled mobile phone must be paired with the in-vehicle Bluetooth system before it can be used in the vehicle. Not all phones will support all functions.

See Bluetooth (Voice Recognition) on page 7-36 or Bluetooth (Infotainment Controls) on page 7-27 or Bluetooth (Overview) on page 7-26 and Hands-Free Phone on page 7-42.

Steering Wheel Controls



Some audio steering wheel controls could differ depending on the vehicle's options. Some audio steering wheel controls can be adjusted at the steering wheel.

speakers while using the infotainment system. Press again to turn the sound on.

For vehicles with OnStar or Bluetooth systems, press to reject an incoming call, or end a current call.

 \triangle **SRC** ∇ : Press to select an audio source.

Toggle up or down to select the next or previous favorite radio station, CD/MP3 track, USB file, iPod/ iPhone song or Bluetooth music.

Toggle and hold up or down to fast forward or reverse the radio stations, CD/MP3 tracks, USB files, iPod/iPhone songs or Bluetooth music.

+ □ -: Press + or - to increase or decrease the volume.

See Steering Wheel Controls on page 5-2.

Cruise Control



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

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

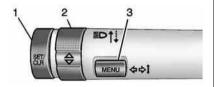
SET/-: Move the thumbwheel down briefly to set the speed and activate cruise control. If cruise control is already active, use to decrease speed.

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

See Cruise Control on page 9-34.

Driver Information Center (DIC)

If equipped, the DIC display is in the instrument cluster. It shows the status of many vehicle systems. The controls for the DIC are on the turn signal lever.



- 1. **SET/CLR:** Press to set or clear the menu item displayed.
- △ ▽ : Use the thumbwheel to scroll through the items in each menu.
- MENU: Press to display the DIC menus. This button is also used to return to or exit the last screen displayed on the DIC.

See Driver Information Center (DIC) on page 5-23.

Rear Vision Camera (RVC)

If equipped, RVC displays a view of the area behind the vehicle, on the center stack display, when the vehicle is shifted into R (Reverse).

See Rear Vision Camera (RVC) on page 9-38.

Parking Assist

If equipped, this system uses sensors on the rear bumper to assist with parking and avoiding objects while in R (Reverse). It operates at speeds less than 8 km/h (5 mph). Rear Parking Assist (RPA) uses audible beeps to provide distance and system information.

Keep the sensors on the vehicle's rear bumper clean to ensure proper operation.

See Parking Assist on page 9-37.

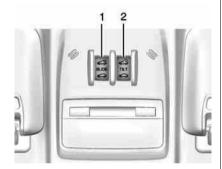
Power Outlets

The accessory power outlets can be used to plug in electrical equipment, such as a cell phone or MP3 player.

The vehicle has an accessory power outlet in front of the cupholders on the center stack.

See Power Outlets on page 5-6.

Sunroof



If equipped, the sunroof only operates when the ignition is turned to ON/RUN or Retained Accessory Power (RAP) is active.

Open/Close: Press and hold the front or rear of switch (1) to open or close the sunroof.

Vent: Press and hold the front or rear of switch (2) to vent or close the sunroof.

Manually close the sunshade.

The sunroof will not operate if the vehicle has an electrical failure.

See Sunroof on page 2-16.

Performance and Maintenance

Traction Control/ Electronic Stability Control

If equipped, the traction control system limits wheel spin. The system is on when the vehicle is started.

If equipped, the StabiliTrak system assists with directional control of the vehicle in difficult driving conditions. The system is on when the vehicle is started.

- To turn off traction control, press and release of on the center stack. ((a) illuminates in the instrument cluster.
- Press and release 幕 again to turn traction control back on.

- To turn off both Traction Control and StabiliTrak, press and hold \$\frac{1}{8}\$ until \$\frac{1}{8}\$ and \$\frac{1}{9}\$ illuminate in the instrument cluster.
- Press again to turn on both systems.

See Traction Control/Electronic Stability Control on page 9-31.

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 on page 9-10*. 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 on page 10-49.

Engine Oil Life System

The engine oil life system calculates engine oil life based on vehicle use and displays the ***/ % CHANGE message on the DIC when it is necessary to change the engine oil and filter.

Remember, the oil life display must be reset after each oil change. It will not reset itself.

Resetting the Oil Life System

- Press the MENU button to show Remaining Oil Life on the display. This display shows an estimate of the oil's remaining useful life. If 99% is displayed, that means that 99% of the current oil life remains.
- To reset the engine oil life system, press the SET/CLR button while the oil life display is active. After a few seconds, there will be a single chime and the oil life will be reset to 100%.

Be careful not to 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.

See Engine Oil Life System on page 10-11.

Driving for Better Fuel Economy

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

- 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.

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 on page 13-5.

OnStar[®]

This vehicle may be equipped with a comprehensive, in-vehicle system that can connect to a live OnStar Advisor for Emergency, Security, Navigation, Connection, and Diagnostic Services. OnStar services may require a paid subscription. See OnStar Overview on page 14-1.

1-22 In Brief **№** NOTES

Keys, Doors, and Windows

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Keys and Locks

Keys

⚠ Warning

Leaving children in a vehicle with the ignition key 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 keys in the ignition, and children or others could be caught in the path of a closing window. Do not leave children in a vehicle with the ignition key.



The key that is part of the Remote Keyless Entry (RKE) transmitter can be used for the ignition and all locks.



Press the key release button on the RKE transmitter to extend the key blade. Press the button and the key blade to retract the key.

The key code is stamped on the key number plate and can be used to make new keys at any dealer. Store this information in a safe place outside the vehicle.

If it becomes difficult to turn the key in the ignition, inspect the key blade for debris. Periodically clean with a brush or pick.

See your dealer if a new key is needed.

If locked out of the vehicle, see Roadside Assistance Program on page 13-5.

With an active OnStar subscription, an OnStar Advisor may remotely unlock the vehicle. See *OnStar Overview on page 14-1*.

Remote Keyless Entry (RKE) System

See Radio Frequency Statement on page 13-11.

If there is a decrease in the 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 RKE transmitter may work up to 30 m (98 ft) away from the vehicle.

Other conditions can affect the performance of the transmitter. See Remote Keyless Entry (RKE) System on page 2-2.



The following may be available:

(Lock): Press to lock all doors or, if equipped, the locking fuel door.

The hazard warning lamps may flash and/or the horn may sound to indicate locking. See "Remote Lock Feedback" under Vehicle Personalization on page 5-28.

If the driver door is open when $\widehat{\bullet}$ is pressed and Unlocked Door Anti Lock Out is enabled through vehicle personalization, all doors will lock and then the driver door will unlock. See "Unlocked Door Anti Lock Out" under Vehicle Personalization on page 5-28.

Pressing a may also arm the alarm system. See *Vehicle Alarm System* on page 2-10.

(Unlock): Press to unlock the driver door, all doors or, if equipped, the locking fuel door. See "Door Unlock Options" under Vehicle Personalization on page 5-28.

The hazard warning lamps may flash to indicate unlocking. See "Remote Unlock Light Feedback" under *Vehicle Personalization on page 5-28.*

Pressing a will disarm the alarm system. See Vehicle Alarm System on page 2-10.

➤ (Vehicle Locator/Panic Alarm): If equipped, press and hold briefly to initiate vehicle locator. The exterior lamps flash and the horn chirps three times.

Press and hold if for at least three seconds to sound the panic alarm. The horn sounds and the turn signals flash for 30 seconds, or until is pressed again or the key is placed in the ignition and turned to ACC/ACCESSORY or ON/RUN

Q (Remote Vehicle Start):

If equipped, press $\widehat{\mathbf{o}}$ and then press and hold $\widehat{\mathbf{O}}$ to start the engine from

outside the vehicle using the RKE transmitter. See *Remote Vehicle Start on page 2-5*.

The RKE transmitter buttons will not operate when the key is in the ignition.

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. When the replacement transmitter is programmed to this vehicle, all remaining transmitters must also be reprogrammed. Any lost or stolen transmitters will no longer work once the new transmitter is programmed.

Programming with a Recognized Transmitter

To program a new key:

- Insert the original, already programmed key in the ignition and turn to the key to the ON/ RUN position.
- 2. Turn the key to LOCK/OFF, and remove the key.
- Insert the new key to be programmed and turn it to the ON/RUN position within five seconds.

The security light will turn off once the key has been programmed.

4. Repeat Steps 1–3 if additional keys are to be programmed.

If a key is lost or damaged, see your dealer to have a new key made.

Programming without a Recognized Transmitter

Program a new key to the vehicle when a recognized key is not available. Canadian regulations require that owners see their dealer.

If there are no currently recognized keys available, follow this procedure to program the first key.

This procedure will take approximately 30 minutes to complete for the first key. The vehicle must be off and all of the keys you wish to program must be with you.

- 1. Insert the new vehicle key into the ignition.
- 2. Turn to ON/RUN. The security light will come on.
- 3. Wait 10 minutes until the security light turns off.
- 4. Turn the ignition to LOCK/OFF.

 Repeat Steps 2–4 two more times. After the third time, turn to ON/RUN; the key is learned and all previously known keys will no longer work with the vehicle.

Remaining keys can be learned by following the procedure in "Programming with a Recognized Transmitter".

Battery Replacement

The battery is not rechargeable. To replace the battery:

⚠ Caution

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



- Extend the key blade and open the battery cover on the back of the transmitter by prying with a finger.
- Remove the used battery by pushing on the battery and sliding it toward the key blade.
- Insert the new battery, positive side facing up. Push the battery down until it is held in place. Replace with a CR2032 or equivalent battery.
- 4. Snap the battery cover back on to the transmitter.

Remote Vehicle Start

The vehicle may have this feature that allows you to start the engine from outside the vehicle.

Q (Remote Vehicle Start): 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 defog may come on during remote start based on cold ambient conditions. The rear fog indicator light does not come on during remote start. If the vehicle has heated seats, they may come on during a remote start. See Heated Front Seats on page 3-7.

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

Other conditions can affect the performance of the transmitter. See Remote Keyless Entry (RKE) System on page 2-2.

Starting the Vehicle

To start the engine using the remote start feature:

- 1. Aim the RKE transmitter at the vehicle.
- 2. Press and release 1.
- Immediately after completing Step 2, press and hold Ω for several seconds or until the turn signal lamps flash. The turn signal lamps flashing confirms the request to remote start the vehicle has been received.

When the engine starts, the parking lamps will turn on and remain on as long as the engine is running. The doors will be locked and the climate control system may come on.

The engine will continue to run for 10 minutes. Repeat the steps for a 10-minute time extension. Remote start can be extended only once.

Start the vehicle before driving.

Extending Engine Run Time

The engine run time can also be extended by another 10 minutes, if during the first 10 minutes Steps 1–3 are repeated while the engine is still running. This provides a total of 20 minutes.

The remote start can only be extended once.

When the remote start is extended, the second 10-minute period is added on to the first 10 minutes for a total of 20 minutes.

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

The vehicle's ignition must be changed to ON/RUN/START and then back to OFF before the remote start procedure can be used again.

Canceling a Remote Start

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

- Aim the RKE transmitter at the vehicle and press and hold Q 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 vehicle start feature will not operate if:

- . The key is in the ignition.
- The hood is not closed.
- The hazard warning flashers are on.
- The malfunction indicator lamp is on.
- The engine coolant temperature is too high.
- The oil pressure is low.

- Two remote vehicle starts, or a single 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. When a door is locked, the handle will not open it. 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 safety belts properly and the doors should be locked whenever the vehicle is driven.

(Continued)

Warning (Continued)

- Young children who get into unlocked vehicles may be unable to get out. A child can be overcome by extreme heat and can suffer 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 a door manually:

- From the inside, to lock the door, use the lock knob on the top of the door panel.
- From the outside, turn the key toward the front or rear of the vehicle, or press or on the Remote Keyless Entry (RKE) transmitter.

Power Door Locks



Press or to lock or unlock the doors, tailgate, and if equipped, the locking fuel door.

If the driver door is open, the driver door and locking fuel door cannot be locked. This can be changed in the Vehicle Settings. See *Vehicle Personalization on page 5-28*.

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 through the Driver Information Center (DIC). See *Vehicle Personalization on page 5-28.*

Automatic Door Locks

Automatic Door Lock

When the 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, the doors will lock.

Automatic door locking can be configured. See *Vehicle Personalization on page 5-28*.

Automatic Door Unlock

When the shift lever is moved into P (Park) for automatic transmissions or when the key is removed from the ignition for manual transmissions, the doors will automatically unlock.

See Vehicle Personalization on page 5-28.

Safety Locks

The rear door safety locks prevent passengers from opening the rear doors from inside the vehicle.

Manual Safety Locks



If equipped, the safety lock is located on the inside edge of the rear doors. To use the safety lock:

- Insert the key into the safety lock slot and turn it so the slot is in the horizontal position.
- 2. Close the door.
- 3. Do the same for the other rear door.

To open a rear door when the safety lock is on:

- Unlock the door by activating the inside handle, using the power door lock switch, or the Remote Keyless Entry (RKE) transmitter.
- 2. Open the door from the outside.

To cancel the safety lock:

- Unlock the door and open it from the outside.
- Insert the key into the safety lock slot and turn it so the slot is in the vertical position. Do the same for the other door.

Doors

Liftgate

⚠ 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.

(Continued)

Warning (Continued)

- Adjust the climate control system to a setting that brings in only outside air 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 on page 9-22*.

⚠ Caution

To avoid damage to the liftgate or liftgate glass, make sure the area above and behind the liftgate is clear before opening it.



To open the liftgate, press and on the door lock switch or on the Remote Keyless Entry (RKE) transmitter to unlock all doors, then use the touch pad on the trunk.

Press on the door lock switch or on the RKE transmitter to lock the liftgate.

See Remote Keyless Entry (RKE) System Operation on page 2-3.

When closing the liftgate, close from the center to ensure that it fully latches.

Vehicle Security

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

Vehicle Alarm System

This vehicle may be equipped with an alarm system.



An 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 Flast: Vehicle is unsecured. A door, the turnk, or the hood is open.

Slow Flash: Alarm system is armed

Arming the Alarm System

- 1. Turn off the vehicle.
- Lock the vehicle in one of two ways:
 - Use the RKE transmitter.
 - With a door open, press on the interior of the door.

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 a passenger door, the 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:

Press a on the RKE transmitter.

· Start the vehicle.

Avoid setting off the alarm by accident by locking the vehicle after all occupants have left the vehicle and all doors are closed.

To avoid setting off the alarm by accident:

- Lock the vehicle after all occupants have exited.
- Always unlock the vehicle with the RKE transmitter.

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

How to Detect a Tamper Condition

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

Immobilizer

See Radio Frequency Statement on page 13-11.

Immobilizer Operation

This vehicle has a passive theft-deterrent system.

The system does not have to be manually armed or disarmed.

The vehicle is automatically immobilized when the key is removed from the ignition.

The system is automatically disarmed when the vehicle is started with the correct key. The key uses a transponder that matches an immobilizer control unit in the vehicle and automatically disarms the system. Only an authorized key starts the vehicle. The vehicle may not start if the key is damaged.



The security light in the instrument cluster comes on if there is a problem with arming or disarming the theft-deterrent system.

When trying to start the vehicle, the security light comes on briefly when the ignition is turned on.

If the engine does not start and the security light stays on, there is a problem with the system. Turn the ignition off and try again.

If the engine still does not start, and the key appears to be undamaged or the light continues to stay on, try another ignition key. If the engine does not start with the other key, the vehicle needs service. If the vehicle does start, the first key may be damaged. See your dealer who can service the theft-deterrent system and have a new key made.

Do not leave the key 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:

- Turn the selector switch to L (Left) or R (Right) to choose the driver or passenger mirror.
- 2. Move the control to adjust the mirror.
- 3. Turn the selector switch to O to deselect the mirror.

Folding Mirrors

Manual Folding Mirrors

If equipped the outside mirrors can be folded inward to prevent damage. To fold, pull the mirror toward the vehicle. Push the mirror outward to return it to the original position.

Heated Mirrors

For vehicles with heated mirrors:

(Rear Window Defogger): Press to heat the mirrors.

See "Rear Window Defogger" under Climate Control Systems on page 8-1.

Interior Mirrors

Interior Rearview Mirrors

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

If equipped with OnStar, the vehicle may have three control buttons at the bottom of the mirror. See your dealer for more information about OnStar and how to subscribe to it. See OnStar Overview on page 14-1.

Do not spray glass cleaner directly on the mirror. Use a soft towel dampened with water.

Manual Rearview Mirror

If equipped with a manual rearview mirror, push the tab forward for daytime use and pull it for nighttime use to avoid glare from 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.

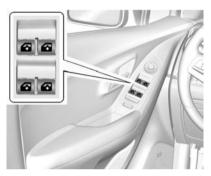


The vehicle aerodynamics are designed to improve fuel economy performance. This may result in a pulsing sound when either rear window is down and the front windows are up. To reduce the sound, open either a front window or the sunroof, if equipped.

Power Windows

⚠ Warning

Children could be seriously injured or killed if caught in the path of a closing window. Never leave keys in a vehicle with children. When there are children in the rear seat, use the window lockout button to prevent operation of the windows. See Keys on page 2-1.



Press the switch to lower the window. Pull up on the front edge of the switch to raise it.

The driver door also has switches that control the passenger and rear windows. The switches work when the vehicle is in ON/RUN or ACC/ACCESSORY, or when Retained Accessory Power (RAP) is active. See Retained Accessory Power (RAP) on page 9-19.

Express-Up/Express-Down Windows

If equipped, a window with the express-up/down feature can be raised or lowered without holding the switch. Press or pull the window switch fully and release it to activate the express feature. The express mode can be canceled by pressing or pulling the switch.

Programming the Power Windows

If the battery on the vehicle has been recharged, disconnected, or replaced, windows with the express-up feature need to be reprogrammed for this feature to work. To program the window:

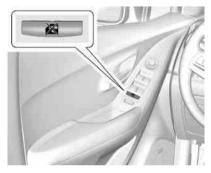
 Close all doors with the ignition in ON/RUN or ACC/ ACCESSORY, or when RAP is active. See Retained Accessory Power (RAP) on page 9-19.

- Press and continue to hold the window switch until the window is fully open.
- Pull up and hold the window switch to close the window.
 Continue to hold it briefly after the window is fully closed.
- 4. Repeat for each window that has the express-up feature.

Anti-Pinch Feature

The anti-pinch feature is on windows with the express-up feature. If an object is in the way of the window as it is express-closing, or in certain weather conditions like severe icing, the window will stop and open to a factory preset position. The window functions normally once the obstruction is removed.

Rear Window Lockout

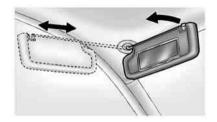


The rear window lockout feature prevents the rear passenger windows from operating, except from the driver position.

Press to activate the rear window lockout switch.

Press again to deactivate the lockout switch.

Sun Visors



Pull the sun visor down to block glare. If equipped, detach the sun visor from the center mount to pivot to the side window or to extend along the rod.

If equipped, there is a lighted mirror on the sun visor. Lift the cover to open.

Roof

Sunroof



If equipped, the sunroof only operates when the ignition is turned to ON/RUN or Retained Accessory Power (RAP) is active.

Open/Close: Press and hold the front or rear of switch (1) to open or close the sunroof.

Vent: Press and hold the front or rear of switch (2) to vent or close the sunroof.

Manually close the sunshade.

The sunroof will not operate if the vehicle has an electrical failure.



Dirt and debris may collect on the sunroof seal or in the track. This could cause an issue with sunroof operation or noise. It could also plug the water drainage system.

Periodically open the sunroof and remove any obstacles or loose debris. Wipe the sunroof seal and roof sealing area using a clean cloth, mild soap, and water. Do not remove grease from the sunroof.

If water is seen dripping into the water drainage system, this is normal.

Seats and Restraints

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Head Restraints

⚠ Warning

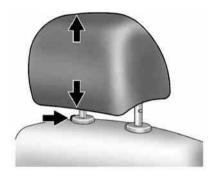
With head restraints that are not installed and adjusted properly, there is a greater chance that occupants will suffer a neck/spinal injury in a crash. Do not drive until the head restraints for all occupants are installed and adjusted properly.

Front Seats

The front seats have adjustable head restraints in the outboard seating positions.



Adjust the head restraint so that the top of the restraint is at the same height as the top of the occupant's head. This position reduces the chances of a neck injury in a crash.



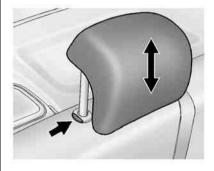
The height of the head restraint can be adjusted. Pull the head restraint up to raise it. Try to move the head restraint to make sure that it is locked in place.

To lower the head restraint, press the button, located on the top of the seatback, and push the head restraint down. Try to move the head restraint after the button is released to make sure that it is locked in place.

The front seat outboard head restraints are not removable

Rear Seats

The rear seats have head restraints in the outboard seating positions that can be lowered for better visibility when the rear seat is unoccupied.



To lower the head restraint, press the button, located on the top of the seatback, and push the head restraint down. When an occupant is in the seat, always return the head restraint to the upright position. Pull the head restraint up and push it rearward until it locks into place. Push and pull on the head restraint to make sure that it is locked.

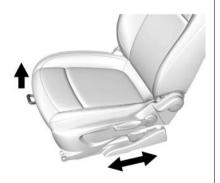
Rear outboard head restraints are not removable.

Front Seats

Seat Adjustment Seat Position

⚠ Warning

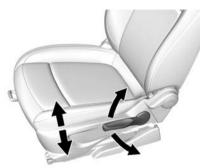
You can lose control of the vehicle if you try to adjust a driver seat while the vehicle is moving. Adjust the driver seat only when the vehicle is not moving.



To adjust a manual seat:

- 1. Pull the handle at the front of the seat.
- 2. Slide the seat to the desired position and release the handle.
- Try to move the seat back and forth to be sure it is locked in place.

Height Adjustment



If available, move the lever up or down to manually raise or lower the seat.

Power Seat Adjustment



To adjust the power driver seat, if available:

- 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 entire seat by moving the rear of the control up or down.

To adjust the seatback, see Reclining Seatbacks on page 3-5.

To adjust the lumbar support, see *Lumbar Adjustment on page 3-5*.

Lumbar Adjustment



Manual Seat Shown, Power Seat Similar

If available, press the front or rear of the switch to increase or decrease lumbar support. Release the switch when the desired level of support is reached.

Reclining Seatbacks

⚠ 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.



Manual Seat Shown, Power Seat Similar

To recline the seatback:

- 1. Lift the lever.
 - If necessary, move the safety belt out of the way to access the lever.
- Move the seatback to the desired position, then release the lever to lock the seatback in place.
- 3. Push and pull on the seatback to make sure it is locked.

To return the seatback to an upright position:

- Lift the lever fully without applying pressure to the seatback, and the seatback returns to the upright position.
- Push and pull on the seatback to make sure it is locked.

Marning

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

The shoulder belt will not be against your body. Instead, it will be in front of you. In a crash, you could go into it, receiving neck or other injuries.

The lap belt could go up over your abdomen. The belt forces would be there, not at your pelvic bones. This could cause serious internal injuries.

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



Do not have a seatback reclined if the vehicle is moving.

Front Seat Armrest



There may be an armrest on the inboard side of the driver seat. To raise or lower the armrest, push up or pull down on the armrest.

Heated Front Seats

Marning

If you cannot feel temperature change or pain to the skin, the seat heater may cause burns. To reduce the risk of burns, people with such a condition should 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.



If available, the controls are on the climate control panel. To operate, the engine must be running.

Press > or > to turn the driver or passenger heated seat on or off. The indicator light on the control turns on when this feature is on.

The passenger seat may take longer to heat up.

Remote Start Heated Seats

If available, the heated seats can be turned on automatically during a remote start when it is cold outside. The heated seats will be canceled

when the ignition is turned on. Press the control to use the heated seats after the vehicle is started.

The heated 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 seats will not turn on during a remote start unless the heated seat feature is enabled in the vehicle personalization menu. See Remote Vehicle Start on page 2-5 and Vehicle Personalization on page 5-28.

Folding Seatback

The front passenger seatback may fold flat.

Marning

If you fold the seatback forward to carry longer objects, such as skis, be sure any such cargo is not

(Continued)

Warning (Continued)

near an airbag. In a crash, an inflating airbag might force that object toward a person. This could cause severe injury or even death. Secure objects away from the area in which an airbag would inflate. For more information, see Where Are the Airbags? (Mexico) on page 3-31 or Where Are the Airbags? (U.S. and Canada) on page 3-30 and Vehicle Load Limits on page 9-10.

⚠ Warning

Things you put on this seatback can strike and injure people in a sudden stop or turn, or in a crash. Remove or secure all items before driving.

To fold the seatback:

- Lower the head restraint all the way. See Head Restraints on page 3-2.
- 2. Move the seat as far back as possible. See Seat Adjustment on page 3-4.



3. Lift the lever fully and fold the seatback forward.

If necessary, move the safety belt out of the way to access the lever.

 Continue lowering the seatback until it is completely folded and locks in place.

To raise the seatback:

- Lift the lever fully to unlock the seatback. Then, raise the seatback and push it rearward until it re-engages.
- 2. Push and pull on the seatback to make sure it is locked in place.

⚠ 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.

Rear Seats

Folding the Seatback

Either side of the seatback can be folded down for more cargo space. Fold a seatback only when the vehicle is not moving.

⚠ Caution

Folding a rear seat with the safety belts still fastened may cause damage to the seat or the safety belts. Always unbuckle the safety belts and return them to their normal stowed position before folding a rear seat.

⚠ Caution

Folding the rear seatback prior to tilting the seat cushion forward may damage the rear seat.

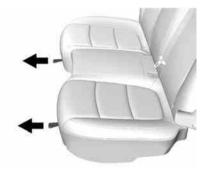
(Continued)

Caution (Continued)

Always tilt the rear seat cushion forward before folding the seatback.

To fold a seatback down:

- 1. Make sure the floor area in front of the rear seats is clear.
- Fully lower the head restraint. See Head Restraints on page 3-2.
- Slide the front seats forward and place the front seatbacks in the upright position. See Seat Adjustment on page 3-4 and Reclining Seatbacks on page 3-5.



 Pull the strap on the front edge of the rear seat cushion to release the cushion. Tilt the seat cushion forward toward the front of the vehicle.

The seat cushion must be tilted forward before the seatback is folded down. Otherwise, the seatback will not fold down properly.

Rear Seat with Retainer Hook on the Seatback

Make sure the safety belt is in the retainer hook on top of the seatback, if equipped.



Rear Seat with Retainer Hook on the Seatback

 Reach under the belt and pull the lever on top of the seatback to unlock the seatback.

A tab near the seatback lever raises when the seatback is unlocked.



7. Fold the seatback forward and down.



Safety Belt Clip on Side Trim

- Place the outboard safety belt in the safety belt clip (if equipped) on the side trim of the vehicle.
- Repeat Steps 1–8 for the other seatback and seat cushion, if desired.

Raising the Seatback

⚠ 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.

⚠ Warning

A safety belt that is improperly routed, not properly attached, or twisted will not provide the protection needed in a crash. The person wearing the belt could be seriously injured. After raising the rear seatback, always check to be sure that the safety belts are properly routed and attached, and are not twisted.

To return the rear seatback to the normal seating position:



Safety Belt Clip on Side Trim

 Remove the outboard safety belt from the safety belt clip (if equipped) on the side trim of the vehicle. Lift the seatback and push it rearward to lock it in place. A tab near the seatback lever retracts when the seatback is locked in place.

Make sure the safety belts are not pinched by the seatback locking mechanism.

The center rear safety belt may lock when you raise the seatback. If this happens, let the belt go back all the way and start again. If the safety belt is still locked, try again after pulling the seat cushion out.

Push and pull the top of the seatback to be sure it is locked into position. Return the seat cushion to its original position and push down on the front part of the seat cushion until it latches.

Make sure the safety belts and safety belt buckles are not trapped under the seat cushion and are properly positioned for use.

Repeat Steps 1–4 for the other seatback and seat cushion, if necessary.

If additional cargo space is not needed, the seatbacks should be kept in the upright, locked position.

Rear Seat Armrest



If available, the rear seat has an armrest in the center of the seatback. Lower the armrest to access the cupholders.

To fold, lift the armrest up and push it rearward until it is flush with the seatback.

Safety Belts

This section of the manual describes how to use safety belts properly. It also describes some things not to do with safety belts.

⚠ Warning

Do not let anyone ride where a safety belt cannot be worn properly. In a crash, if you or your passenger(s) are not wearing safety belts, injuries can be much worse than if you are wearing safety 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 (Continued)

Warning (Continued)

are more likely to be seriously injured or killed. Do not allow passengers to ride in any area of the vehicle that is not equipped with seats and safety belts.

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

This vehicle has indicators as a reminder to buckle the safety belts. See Safety Belt Reminders on page 5-11.

Why Safety 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 safety belts!

When you wear a safety 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

safety belts. That is why wearing safety belts makes such good sense.

Questions and Answers About Safety Belts

- Q: Will I be trapped in the vehicle after a crash if I am wearing a safety belt?
- A: You could be whether you are wearing a safety 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 safety belts?
- A: Airbags are supplemental systems only; so they work with safety 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 safety belts.

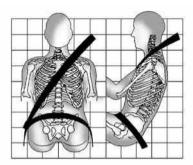
How to Wear Safety Belts Properly

This section is only for people of adult size.

There are special things to know about safety belts and children. And there are different rules for smaller children and infants. If a child will be riding in the vehicle, see *Older Children on page 3-43* or *Infants and Young Children on page 3-45*. Follow those rules for everyone's protection.

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 safety belts.

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



- Sit up straight and always keep your feet on the floor in front of you.
- 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.

Marning

You can be seriously injured, or even killed, by not wearing your safety 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.
- Never route the lap or shoulder belt over an armrest.

Lap-Shoulder Belt (U.S. and Canada)

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

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

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



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. If this happens, let the belt go back all the way and start again.

The rear center safety belt can only be withdrawn from the retractor if the seatback is in the upright locked position.



- 3. 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 Safety Belt Extender on page 3-25.
 - Position the release button on the buckle so that the safety belt could be quickly unbuckled if necessary.
- If equipped with a shoulder belt height adjuster, move it to the height that is right for you. See "Shoulder Belt Height Adjuster"

later in this section for instructions on use and important safety information.



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

It may be necessary to pull the stitching on the safety belt through the latch plate to fully tighten the lap belt on smaller occupants.



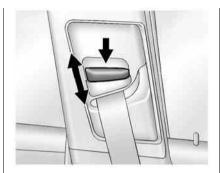
To unlatch the belt, push the button on the buckle. The belt should return to its stowed position. Slide the latch plate up the safety belt webbing when the safety belt is not in use.

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

Shoulder Belt Height Adjuster

The vehicle has a shoulder belt height adjuster for the driver and right front passenger seating positions.

Adjust the height so the shoulder portion of the belt is on the shoulder but not falling off of it. The belt should be close to but not contacting the neck. Improper shoulder belt height adjustment could reduce the effectiveness of the safety belt in a crash. See How to Wear Safety Belts Properly on page 3-14.



To move the shoulder belt height adjuster down, push down on the release button and move the height adjuster to the desired position. You can move the height adjuster up by pushing up on the shoulder belt guide.

After the adjuster is set to the desired position, try to move it down without pushing the release button to make sure it has locked into position.

Safety Belt Pretensioners

This vehicle has safety belt pretensioners for the front outboard occupants. Although the safety belt pretensioners cannot be seen, they are part of the safety belt assembly. They can help tighten the safety 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. Safety belt pretensioners can also help tighten the safety 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 safety belt system will need to be replaced. See Replacing Safety Belt System Parts after a Crash on page 3-25.

Rear Safety Belt Comfort Guides

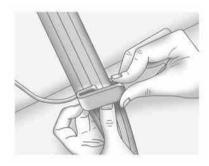
Rear safety belt comfort guides may provide added safety belt comfort for older children who have outgrown booster seats and for some adults. When installed on a shoulder belt, the comfort guide positions the shoulder belt away from the neck and head.

Safety belt comfort guides are available through your dealer. Instructions are included with the guide.

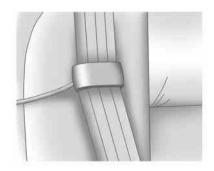
To install:



- 1. Locate the anchor loop (1) on the rear outboard seatback.
- Attach the adjustable comfort guide (2) to the anchor loop by threading the hook through the loop.



Place the guide over the belt, and insert the two edges of the belt into the slots of the guide.



- Be sure that the belt is not twisted and it lies flat. The elastic cord must be behind the belt with the plastic guide on the front.
- The elastic cord on the comfort guide is adjustable. Make it longer or shorter by squeezing both ends of the plastic adjuster and pulling on the elastic cord or the guide.

 Adjust the guide so the shoulder portion of the belt is on the shoulder and not falling off of it. The belt should be close to, but not contacting, the neck. Improper comfort guide adjustment could reduce the effectiveness of the safety belt in a crash.

Marning

A safety belt that is not properly worn may not provide the protection needed in a crash. The person wearing the belt could be seriously injured. The shoulder belt should go over the shoulder and across the chest. These parts of the body are best able to take belt restraining forces.



 Buckle and position the safety belt as described previously in this section. Make sure that the shoulder belt crosses the shoulder.

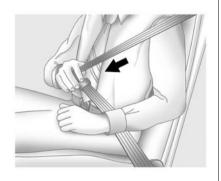
To remove and store the comfort guide, squeeze the belt edges together so that the safety belt can be removed from the guide. Unhook the guide from the loop on the seat. Store the guide in a convenient place like the glove box for the next time it is needed.

Lap-Shoulder Belt (Mexico)

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

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

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



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.

The rear center safety belt can only be withdrawn from the retractor if the seatback is in the upright locked position.



- 3. Push the latch plate into the buckle until it clicks.
- 4. Pull up on the latch plate to make sure it is secure. If the belt is not long enough, see *Safety Belt Extender on page 3-25*.
 - Position the release button on the buckle so that the safety belt could be quickly unbuckled if necessary.
- If equipped with a shoulder belt height adjuster, move it to the height that is right for you. See "Shoulder Belt Height Adjuster" later in this section for instructions on use and important safety information.



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

It may be necessary to pull the stitching on the safety belt through the latch plate to fully tighten the lap belt on smaller occupants.



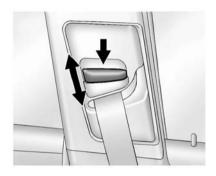
To unlatch the belt, push the button on the buckle. The belt should return to its stowed position. Slide the latch plate up the safety belt webbing when the safety belt is not in use.

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

Shoulder Belt Height Adjuster

The vehicle has a shoulder belt height adjuster for the driver and right front passenger seating positions.

Adjust the height so the shoulder portion of the belt is on the shoulder but not falling off of it. The belt should be close to but not contacting the neck. Improper shoulder belt height adjustment could reduce the effectiveness of the safety belt in a crash. See How to Wear Safety Belts Properly on page 3-14.



To move the shoulder belt height adjuster down, push down on the release button and move the height adjuster to the desired position. You can move the height adjuster up by pushing up on the shoulder belt guide.

After the adjuster is set to the desired position, try to move it down without pushing the release button to make sure it has locked into position.

Safety Belt Pretensioners

This vehicle has safety belt pretensioners for the front outboard occupants. Although the safety belt pretensioners cannot be seen, they are part of the safety belt assembly. They can help tighten the safety 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. And, if the vehicle has side impact airbags, safety belt pretensioners can help tighten the safety belts in a side crash.

Pretensioners work only once. If the pretensioners activate in a crash, the pretensioners and probably other parts of the vehicle's safety belt system will need to be replaced. See Replacing Safety Belt System Parts after a Crash on page 3-25.

Rear Safety Belt Comfort Guides

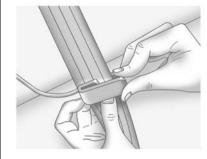
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Safety belt comfort guides are available through your dealer. Instructions are included with the guide.

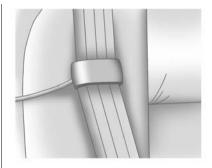
To install:



- 1. Locate the anchor loop (1) on the rear outboard seatback.
- Attach the adjustable comfort guide (2) to the anchor loop by threading the hook through the loop.



Place the guide over the belt, and insert the two edges of the belt into the slots of the guide.



- Be sure that the belt is not twisted and it lies flat. The elastic cord must be behind the belt with the plastic guide on the front.
- The elastic cord on the comfort guide is adjustable. Make it longer or shorter by squeezing both ends of the plastic adjuster and pulling on the elastic cord or the guide.

 Adjust the guide so the shoulder portion of the belt is on the shoulder and not falling off of it. The belt should be close to, but not contacting, the neck. Improper comfort guide adjustment could reduce the effectiveness of the safety belt in a crash.

Marning

A safety belt that is not properly worn may not provide the protection needed in a crash. The person wearing the belt could be seriously injured. The shoulder belt should go over the shoulder and across the chest. These parts of the body are best able to take belt restraining forces.



 Buckle and position the safety belt as described previously in this section. Make sure that the shoulder belt crosses the shoulder.

To remove and store the comfort guide, squeeze the belt edges together so that the safety belt can be removed from the guide. Unhook the guide from the loop on the seat. Store the guide in a convenient place like the glove box for the next time it is needed.

Safety Belt Use During Pregnancy

Safety belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear safety 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 safety 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 safety belts effective is wearing them properly.

Safety Belt Extender

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

But if a safety 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 seats. To wear it, attach it to the regular safety belt. See the instruction sheet that comes with the extender.

Safety System Check

Now and then, check that the safety belt reminder light, safety belts, buckles, latch plates, retractors, and anchorages are all working properly. Look for any other loose or damaged safety belt system parts that might keep a safety belt system from doing its job. See your dealer to have it repaired. Torn or frayed safety belts may not protect you in a crash. They can rip apart under impact forces. If a belt is torn or frayed, get a new one right away.

Make sure the safety belt reminder light is working. See Safety Belt Reminders on page 5-11.

Keep safety belts clean and dry. See Safety Belt Care on page 3-25.

Safety Belt Care

Keep belts clean and dry.

Marning

Do not bleach or dye safety belts. It may severely weaken them. In a crash, they might not be able to provide adequate protection. Clean safety belts only with mild soap and lukewarm water.

Replacing Safety Belt System Parts after a Crash

Marning

A crash can damage the safety belt system in the vehicle. A damaged safety 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 safety belt systems are working properly after a crash, have them

(Continued)

Warning (Continued)

inspected and any necessary replacements made as soon as possible.

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

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

Have the safety 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 on page 5-12*.

Airbag System

Airbag System (U.S. and Canada)

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.
- A roof-rail airbag for the driver and the passenger seated directly behind the driver.
- A roof-rail airbag for the front outboard passenger and the passenger seated directly behind the front outboard passenger.

The vehicle may have the following airbags:

- A knee airbag for the driver.
- A knee airbag for the front outboard passenger.
- Seat-mounted side impact airbags for the second row outboard passengers.

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 knee airbags, the word AIRBAG is on the lower part of the instrument panel.

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

For roof-rail airbags, the word AIRBAG is on the ceiling or trim.

Airbags are designed to supplement the protection provided by safety 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:

Marning

You can be severely injured or killed in a crash if you are not wearing your safety belt, even with airbags. Airbags are designed to work with safety belts, not replace them. Also, airbags are not designed to inflate in every crash. In some crashes safety belts are the only restraint. See When Should an Airbag Inflate? (U.S. and Canada) on page 3-32 or When Should an Airbag Inflate? (Mexico) on page 3-33.

(Continued)

Warning (Continued)

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

Marning

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. Safety belts help keep

(Continued)

Warning (Continued)

you in position before and during a crash. Always wear a safety belt, even with airbags. The driver should sit as far back as possible while still maintaining control of the vehicle.

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

Marning

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 on page 3-43 or Infants and Young Children on page 3-45.



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 on page 5-12* for more information.

Airbag System (Mexico)

The vehicle has the following airbags:

- A frontal airbag for the driver.
- A frontal airbag for the front outboard passenger.

The vehicle may have the following airbags:

 A seat-mounted side impact airbag for the driver.

- A seat-mounted side impact airbag for the front outboard passenger.
- A roof-rail airbag for the driver and the passenger seated directly behind the driver.
- A roof-rail airbag for the front outboard passenger and the passenger seated directly behind 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.

For roof-rail airbags, the word AIRBAG is on the ceiling or trim.

Airbags are designed to supplement the protection provided by safety 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.

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(Continued)

Warning (Continued)

Wearing your safety belt during a crash helps reduce the chance of hitting things inside the vehicle or being ejected from it. Airbags are "supplemental restraints" to the safety belts. Everyone in the vehicle should wear a safety 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. Safety belts help keep

(Continued)

Warning (Continued)

you in position before and during a crash. Always wear a safety belt, even with airbags. The driver should sit as far back as possible while still maintaining control of the vehicle

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

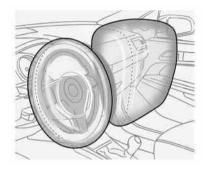


Children who are up against, or very close to, any airbag when it inflates can be seriously injured or killed. Always secure children properly in the vehicle. To read how, see Older Children on page 3-43 or Infants and Young Children on page 3-45.



There is an airbag readiness light on the instrument panel 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 on page 5-12.

Where Are the Airbags? (U.S. and Canada)

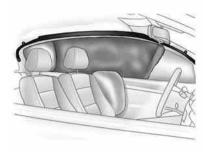


The driver frontal airbag is in the center of the steering wheel.

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



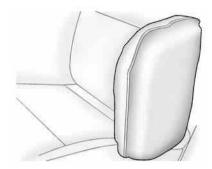
If the vehicle has a knee airbag for the driver and front outboard passenger, the knee airbag for the driver is below the steering column. The front outboard passenger knee airbag is below the glove box.



Driver Side Shown, Passenger Side Similar

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

The roof-rail airbags for the driver, right front passenger, and second row outboard passengers are in the ceiling above the side windows.



Rear Seat Driver Side Shown, Passenger Side Similar

On vehicles with second row seat-mounted side impact airbags, they are in the sides of the rear seatback closest to the door.

Marning

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

(Continued)

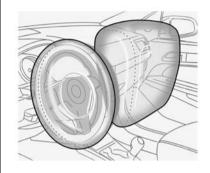
Warning (Continued)

or even death. The path of an 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.

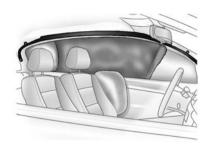
Never secure anything to the roof of a vehicle with roof-rail airbags by routing a rope or tie-down through any door or window opening. If you do, the path of an inflating roof-rail airbag will be blocked.

Where Are the Airbags? (Mexico)



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

If the vehicle has seat-mounted side impact airbags for the driver and front outboard passenger, they are in the side of the seatbacks closest to the door.

If the vehicle has roof-rail airbags for the driver, front outboard passenger, and second row outboard passengers, they are in the ceiling above the side windows.

Marning

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 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.

Never secure anything to the roof of a vehicle with roof-rail airbags by routing a rope or tie-down through any door or window opening. If you do, the path of an inflating roof-rail airbag will be blocked.

When Should an Airbag Inflate? (U.S. and Canada)

This vehicle is equipped with airbags. See Airbag System (Mexico) on page 3-28 or Airbag System (U.S. and Canada) on page 3-26. 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, rear impacts, or many side impacts.

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

Knee airbags, if equipped, are designed to inflate in moderate to severe frontal or near-frontal impacts. Knee airbags are not

designed to inflate during vehicle rollovers, in rear impacts, or in many side crashes.

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

Roof-rail airbags are designed to inflate in moderate to severe side crashes depending on the location of the impact. In addition, these roof-rail airbags are designed to inflate during a rollover or in a severe frontal impact. Roof-rail airbags are not designed to inflate in rear impacts. Both roof-rail airbags will inflate when either side of the vehicle is struck, if the sensing system predicts that the vehicle is about to roll over on its side, or in a severe frontal impact.

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

When Should an Airbag Inflate? (Mexico)

This vehicle is equipped with airbags. See Airbag System (Mexico) on page 3-28 or Airbag System (U.S. and Canada) on page 3-26. 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. 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, rear impacts, or many side impacts.

Seat-mounted side impact airbags, if equipped, 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.

Roof-rail airbags, if equipped, are designed to inflate in moderate to severe side crashes depending on the location of the impact. Roof-rail airbags are not designed to inflate in frontal, near frontal, or rear impacts. A roof-rail airbag is intended 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 the 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? (Mexico) on page 3-31 or Where Are the Airbags? (U.S. and Canada) on page 3-30.

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 safety belts by distributing the force of the impact more evenly over the occupant's body.

Rollover capable roof-rail airbags, if equipped, are designed to help contain the head and chest of occupants in the outboard seating positions in the first and second rows. The rollover capable roof-rail airbags are designed to help reduce

the risk of full or partial ejection in rollover events, although no system can prevent all such ejections.

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? (U.S. and Canada) on page 3-32 or When Should an Airbag Inflate? (Mexico) on page 3-33.

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

What Will You See after an Airbag Inflates?

After the frontal airbags and seat-mounted side impact airbags inflate, they quickly deflate, so quickly that some people may not even realize an airbag inflated. Roof-rail airbags may still be at least partially inflated for some time after they inflate. Some components of the airbag module may be hot for several minutes. For location of the

airbags, see Where Are the Airbags? (Mexico) on page 3-31 or Where Are the Airbags? (U.S. and Canada) on page 3-30.

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

(Continued)

Warning (Continued)

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. You can lock the doors, and turn off the interior lamps, and turn off the hazard warning flashers by using the controls for those features.

Marning

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 on page 13-13 and Event Data Recorders on page 13-13.
- Let only qualified technicians work on the airbag systems.
 Improper service can mean that an airbag system will not work properly. See your dealer for service.

Passenger Sensing System (U.S. and Canada)

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

The words ON and OFF, or the symbol 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 (U.S. and Canada) on page 5-12.

The passenger sensing system turns off the front outboard passenger frontal airbag and knee airbag (if equipped) 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. The sensors are designed to detect the presence of a properly seated occupant and determine if the front outboard passenger frontal airbag and knee airbag (if equipped) 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.

Whenever possible, children aged 12 and under should be secured in a rear seating position.

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.

Marning

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 child restraint can be seriously injured or killed if the front

(Continued)

Warning (Continued)

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 airbag(s), no system is fail-safe. No one can guarantee that an airbag will not inflate under some unusual circumstance, even though the airbag(s) are off.

Secure rear-facing child restraints in a rear seat, even if the airbag(s) are 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.

The passenger sensing system is designed to turn off the front outboard passenger frontal airbag and knee airbag (if equipped) if:

- The front outboard passenger seat is unoccupied.
- The system determines that 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 and knee airbag (if equipped), the off indicator will light and stay lit as a reminder that the airbags are off. See Passenger Airbag Status Indicator (U.S. and Canada) on page 5-12.

The passenger sensing system is designed to turn on the front outboard passenger frontal airbag and knee airbag (if equipped) 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 airbags to be enabled, the on indicator will light and stay lit as a reminder that the airbags are 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 and knee airbag (if equipped), depending upon the person's seating posture and body build. Everyone in the vehicle who has outgrown child restraints should wear a safety 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 Light on page 5-12* 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 and knee airbag (if equipped) 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.

- 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 (Rear Seat U.S. and Canada) on page 3-57 or Securing Child Restraints (Front Passenger Seat Mexico) on page 3-64 or Securing Child Restraints (Rear Seat Mexico) on page 3-59 or Securing Child Restraints (Front Passenger Seat U.S. and Canada) on page 3-61.
- 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. Also make

sure the child restraint is not trapped under the vehicle head restraint. If this happens, adjust the head restraint. See *Head Restraints on page 3-2*.

6. Restart the vehicle.

The passenger sensing system may or may not turn off the airbags for a child restraint depending upon the child's size. It is better to secure a child seat in a rear seat.

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 be because that person is not sitting properly in the seat. Use the following steps to allow the system to detect that person and enable the front outboard passenger frontal airbag and knee airbag (if equipped):

- 1. Turn the vehicle off.
- 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.
- Have the person sit upright in the seat, centered on the seat cushion, with legs comfortably extended.
- Restart the vehicle and have the person remain in this position for two to three minutes after the on indicator is lit.

Marning

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

Safety 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 "Safety 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 on page 3-41 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.

Marning

Stowing of 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 Service Publications Ordering Information on page 13-10.

⚠ 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 or moving any parts of the front seats, safety belts, the airbag sensing and

diagnostic module, steering wheel, instrument panel, any airbag module, ceiling or pillar garnish trim, overhead console, front sensors, side impact sensors, or airbag wiring.

Your dealer and the service manual have information about the location of the airbag sensors, sensing and diagnostic module, and airbag wiring.

In addition, the vehicle may have 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 (U.S. and Canada) on page 3-36.

If the vehicle has rollover roof-rail airbags, see *Different Size Tires* and Wheels on page 10-57 for additional important information.

If you have to modify your vehicle because you have a disability and you 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 on page 13-3.

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 on page 5-12.

⚠ 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? (Mexico) on page 3-31 or Where Are the Airbags? (U.S. and Canada) on page 3-30. See your dealer for service.

Replacing Airbag System Parts after a Crash

Marning

A crash can damage the airbag systems in the vehicle.
A damaged airbag system may not work properly and may not 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 on page 5-12.

Child Restraints Older Children



Older children who have outgrown booster seats should wear the vehicle safety 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, try using the rear safety belt comfort guide, if available. See "Rear Safety Belt Comfort Guides" under Lap-Shoulder Belt (U.S. and Canada) on page 3-15 or Lap-Shoulder Belt (Mexico) on page 3-20. If a comfort guide is not available, or if the shoulder belt still does not rest on the shoulder, then 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 safety 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 safety 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.

Also see "Rear Safety Belt Comfort Guides" under Lap-Shoulder Belt (U.S. and Canada) on page 3-15 or Lap-Shoulder Belt (Mexico) on page 3-20.

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 safety belts properly.

Marning

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



Marning

Never allow a child to wear the safety 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

(Continued)

Warning (Continued)

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 Canadian province says children up to some age must be restrained while in a vehicle.

Marning

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,

(Continued)

Warning (Continued)

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 safety belts.

Every time infants and young children ride in vehicles, they should have the protection provided by appropriate child restraints. Neither the vehicle's safety 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.

Marning

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 should be secured in an appropriate restraint.



Marning

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

(Continued)

Warning (Continued)

the front outboard seat, always move the front passenger seat as far back as it will go.



Q: What are the different types of add-on child restraints?

A: Add-on child restraints, which are purchased by the vehicle owner, are available in four basic types. Selection of a particular restraint should take into consideration not only the child's

weight, height, and age but also whether or not the restraint will be compatible with the motor vehicle in which it will be used.

For most basic types of child restraints, 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.

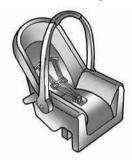
⚠ Warning

To reduce the risk of neck and head injury during a crash, infants need complete support. In a crash, if an infant is in a rear-facing child restraint, the crash forces can be distributed across the strongest part of an infant's body, the back and shoulders. Infants should always be secured in rear-facing child restraints.

Marning

A young child's hip bones are still so small that the vehicle's regular safety 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 Seat

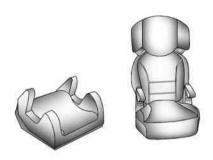
A rear-facing infant seat provides restraint with the seating surface against the back of the infant.

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



Forward-Facing Child Seat

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



Booster Seats

A booster seat is a child restraint designed to improve the fit of the vehicle's safety belt system.

A booster seat can also help a child to see out the window.

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 safety belt or LATCH system, 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 restraint systems must be secured in vehicle seats by lap belts or the lap belt portion of a lap-shoulder belt, or by the LATCH system. See Lower Anchors and Tethers for Children (LATCH System) on page 3-50.

Children 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

Marning

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.

Where to Put the Restraint

According to accident statistics, children and infants are safer when properly restrained in a child restraint system or infant restraint system secured in a rear seating position.

Whenever possible, children age 12 and under should be secured in a rear seating position.

Never put a rear-facing child restraint 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 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 be seriously injured or killed if the front outboard passenger airbag inflates and the passenger seat is in a forward position.

(Continued)

Warning (Continued)

The vehicle may have a passenger sensing system which is designed to turn off the front outboard passenger frontal airbag under certain conditions.

Even if the passenger sensing system, if equipped, 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 seat, always move the front passenger seat as (Continued)

Warning (Continued)

far back as it will go. It is better to secure the child restraint in a rear seat.

See Passenger Sensing System (U.S. and Canada) on page 3-36 for additional information.

When securing a child restraint in a rear seating position, study the instructions that came with the child restraint to make sure it is compatible with this vehicle.

Child restraints and booster seats vary considerably in size, and some may fit in certain seating positions better than others. Always make sure the child restraint is properly secured.

Depending on where you place the child restraint and the size of the child restraint, you may not be able to access adjacent safety belt assemblies or LATCH anchors for additional passengers or child

restraints. Adjacent seating positions should not be used if the child restraint prevents access to or interferes with the routing of the safety belt.

Wherever a child restraint is installed, be sure to secure the child restraint properly.

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.

Lower Anchors and Tethers for Children (LATCH System)

The LATCH system secures a child restraint during driving or in a crash. LATCH attachments on the child restraint are used to attach the child restraint to the anchors in the

vehicle. The LATCH system is designed to make installation of a child restraint easier.

In order to use the LATCH system in your vehicle, you need a child restraint that has LATCH attachments. LATCH-compatible rear-facing and forward-facing child seats can be properly installed using either the LATCH anchors or the vehicle's safety belts. Do not use both the safety belts and the LATCH anchorage system to secure a rear-facing or forward-facing child seat.

Booster seats use the vehicle's safety belts to secure the child in the booster seat. If the manufacturer recommends that the booster seat be secured with the LATCH system, this can be done as long as the booster seat can be positioned properly and there is no interference with the proper positioning of the lap-shoulder belt on the child.

Make sure to follow the instructions that came with the child restraint, and also the instructions in this manual.

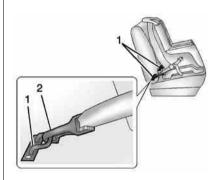
When installing a child restraint with a top tether, you must also use either the lower anchors or the safety belts to properly secure the child restraint. A child restraint must never be installed using only the top tether and anchor.

The LATCH anchorage system can be used until the combined weight of the child plus the child restraint is 29.5 kg (65 lbs). Use the safety belt alone instead of the LATCH anchorage system once the combined weight is more than 29.5 kg (65 lbs).

The following explains how to attach a child restraint with these attachments in the vehicle.

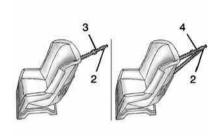
Not all vehicle seating positions or child restraints have lower anchors and attachments or top tether anchors and attachments.

Lower Anchors



Lower anchors (1) are metal bars built into the vehicle. There are two lower anchors for each LATCH seating position that will accommodate a child restraint with lower attachments (2).

Top Tether Anchor

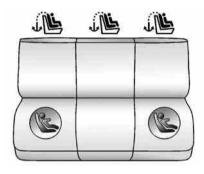


A top tether (3, 4) anchors the top of the child restraint to the vehicle. A top tether anchor is built into the vehicle. The top tether attachment (2) on the child restraint connects to the top tether anchor in the vehicle in order to reduce the forward movement and rotation of the child restraint during driving or in a crash.

The child restraint may have a single tether (3) or a dual tether (4). Either will have a single attachment (2) to secure the top tether to the anchor.

Some child restraints that have a top tether are designed for use with or without the top tether being attached. Others require the top tether always to be attached. In Canada, the law requires that forward-facing child restraints have a top tether, and that the tether be attached. Be sure to read and follow the instructions for your child restraint.

Lower Anchor and Top Tether Anchor Locations



(Top Tether Anchor): Seating positions with top tether anchors.

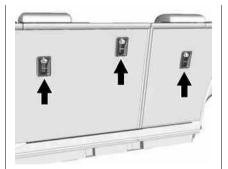
(Lower Anchor): Seating positions with two lower anchors.



To assist in locating the lower anchors, each seating position with lower anchors has two labels, near the crease between the seatback and the seat cushion.



To assist in locating the top tether anchors, the top tether anchor symbol is on the trim near the anchor.



The top tether anchors are on the back of the rear seatbacks. Be sure to use an anchor on the same side of the vehicle as the seating position where the child restraint will be placed.

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

According to accident statistics, children and infants are safer when properly restrained in a child restraint system or infant restraint system secured in a rear seating position. See Where to Put the Restraint on page 3-49 for additional information.

Securing a Child Restraint Designed for the LATCH System

Marning

If a LATCH-type child restraint is not attached to anchors or with the safety belt, the child restraint will not be able to protect the child correctly. In a crash, the child could be seriously injured or killed. Install a LATCH-type child restraint properly using the anchors, or use the vehicle safety belts to secure the restraint,

(Continued)

Warning (Continued)

following the instructions that came with the child restraint and the instructions in this manual.

⚠ Warning

Do not attach more than one child restraint to a single anchor. Attaching more than one child restraint to a single anchor could cause the anchor or attachment to come loose or even break during a crash. A child or others could be injured. To reduce the risk of serious or fatal injuries during a crash, attach only one child restraint per anchor.

⚠ 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.

Buckle any unused safety belts behind the child restraint so children cannot reach them. Pull the shoulder belt all the way out of the retractor to set the lock, and tighten the belt behind the child restraint after the child restraint has been installed.

♠ Caution

Do not let the LATCH attachments rub against the vehicle's safety belts. This may damage these parts. If necessary, move buckled safety belts to avoid rubbing the LATCH attachments.

Do not fold the empty rear seat with a safety belt buckled. This could damage the safety belt or the seat. Unbuckle and return the safety belt to its stowed position, before folding the seat.

If you need to secure more than one child restraint in the rear seat, see Where to Put the Restraint on page 3-49.

This system is designed to make installation of child restraints easier. When using lower anchors, do not use the vehicle's safety belts. Instead use the vehicle's anchors and child restraint attachments to

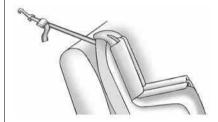
secure the restraints. Some restraints also use another vehicle anchor to secure a top tether.

- Attach and tighten the lower attachments to the lower anchors. If the child restraint does not have lower attachments or the desired seating position does not have lower anchors, secure the child restraint with the top tether and the safety belts. Refer to your child restraint manufacturer instructions and the instructions in this manual.
 - Find the lower anchors for the desired seating position.
 - 1.2. Put the child restraint on the seat.

When installing a rear-facing child restraint, it may be necessary to move the front seat forward to properly install the child restraint per the child

- restraint manufacturer instructions. See Seat Adjustment on page 3-4.
- 1.3. Attach and tighten the lower attachments on the child restraint to the lower anchors.
- If the child restraint manufacturer recommends that the top tether be attached, attach and tighten the top tether to the top tether anchor, if equipped. Refer to the child restraint instructions and the following steps:
 - 2.1. Find the top tether anchor.
 - 2.2. Remove the cargo cover before installing the top tether. Place the cargo cover on the floor of the cargo area. The cargo cover should remain off while the top tether is in use.

2.3. Route, attach, and tighten the top tether according to your child restraint instructions and the following instructions:



If the position you are using does not have a head restraint and you are using a single tether, route the tether over the seatback



If the position you are using does not have a head restraint and you are using a dual tether, route the tether over the seatback.



If the position you are using has an adjustable head restraint and you are using a single tether, raise the head restraint and route the tether under the head restraint and in between the head restraint posts.



If the position you are using has an adjustable head restraint and you are using a dual tether, raise the head restraint and route the tether under the head restraint and around the head restraint posts.

 Before placing a child in the child restraint, make sure it is securely held in place. To check, grasp the child restraint at the LATCH path and attempt to move it side to side and back and forth. There should be no more than 2.5 cm (1 in) of movement for proper installation.

Replacing LATCH System Parts After a Crash

⚠ Warning

A crash can damage the LATCH system in the vehicle. A damaged LATCH system may not properly secure the child restraint, resulting in serious injury or even death in a crash. To help make sure the LATCH system is working properly after a crash, see your dealer to have the system inspected and any necessary replacements made as soon as possible.

If the vehicle has the LATCH system and it was being used during a crash, new LATCH system parts may be needed.

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

Securing Child Restraints (Rear Seat – U.S. and Canada)

When securing a child restraint in a rear seating position, study the instructions that came with the child restraint to make sure it is compatible with this vehicle.

If the child restraint has the LATCH system, see Lower Anchors and Tethers for Children (LATCH System) on page 3-50 for how and where to install the child restraint using LATCH. If a child restraint is secured in the vehicle using a safety belt and it uses a top tether, see Lower Anchors and Tethers for Children (LATCH System) on page 3-50 for top tether anchor locations.

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 strap must be anchored.

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

If the child restraint or vehicle seat position does not have the LATCH system, you will be using the safety belt to secure the child restraint in this position. Be sure to follow the instructions that came with the child restraint. Secure the child in the child restraint when and as the instructions say.

If more than one child restraint needs to be installed in the rear seat, be sure to read *Where to Put the Restraint on page 3-49*.

Put the child restraint on the seat

For outboard second row seating positions, remove the safety belt from the guide. Do not secure the child restraint with the safety belt routed through the guide.

When installing a rear-facing child restraint, it may be necessary to move the front seat forward to properly install the child restraint per the child restraint manufacturer instructions

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

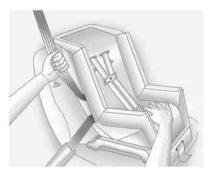


3. Push the latch plate into the buckle until it clicks.

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



 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.



5. 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 4 and 5.

- If the child restraint has a top tether, follow the child restraint manufacturer's instructions regarding the use of the top tether. See Lower Anchors and Tethers for Children (LATCH System) on page 3-50 for more information.
- 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 safety 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.

To remove the child restraint, unbuckle the vehicle safety belt and let it return to the stowed position. If the top tether is attached to a top tether anchor, disconnect it.

Securing Child Restraints (Rear Seat – Mexico)

When securing a child restraint in a rear seating position, study the instructions that came with the child restraint to make sure it is compatible with this vehicle.

If the child restraint has the LATCH system, see Lower Anchors and Tethers for Children (LATCH System) on page 3-50 for how and where to install the child restraint using LATCH. If a child restraint is secured in the vehicle using a safety belt and it uses a top tether, see Lower Anchors and Tethers for Children (LATCH System) on page 3-50 for top tether anchor locations.

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 strap must be anchored.

If the child restraint or vehicle seat position does not have the LATCH system, you will be using the safety belt to secure the child restraint in this position. Be sure to follow the instructions that came with the child restraint. Secure the child in the child restraint when and as the instructions say.

If more than one child restraint needs to be installed in the rear seat, be sure to read *Where to Put the Restraint on page 3-49*.

 Put the child restraint on the seat.

For outboard second row seating positions, remove the safety belt from the guide. Do not secure the child restraint with the safety belt routed through the guide.

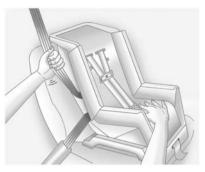
When installing a rear-facing child restraint, it may be necessary to move the front seat forward to properly install the child restraint per the child restraint manufacturer instructions.

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



Push the latch plate into the buckle until it clicks

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



4. 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.

- If the child restraint has a top tether, follow the child restraint manufacturer's instructions regarding the use of the top tether. See Lower Anchors and Tethers for Children (LATCH System) on page 3-50 for more information.
- Before placing a child in the child restraint, make sure it is securely held in place. To check, grasp the child restraint at the safety 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.

To remove the child restraint, unbuckle the vehicle safety belt and let it return to the stowed position. If the top tether is attached to a top tether anchor, disconnect it.

Securing Child Restraints (Front Passenger Seat – U.S. and Canada)

This vehicle has airbags. A rear seat is a safer place to secure a forward-facing child restraint. See Where to Put the Restraint on page 3-49.

In addition, the vehicle has a passenger sensing system which is designed to turn off the front outboard passenger frontal airbag and knee airbag (if equipped) under certain conditions. See Passenger Sensing System (U.S. and Canada) on page 3-36 and Passenger Airbag Status Indicator (U.S. and Canada) on page 5-12 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.

Marning

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 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 airbag(s), no system is fail-safe. No one can guarantee that an airbag will not inflate under some unusual circumstance, even though the airbag(s) are off.

(Continued)

Warning (Continued)

Secure rear-facing child restraints in a rear seat, even if the airbag(s) are 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 (U.S. and Canada) on page 3-36 for additional information.

If the child restraint uses a top tether, see Lower Anchors and Tethers for Children (LATCH System) on page 3-50 for top tether anchor locations.

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 strap 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:

 Move the seat as far back as it will go before securing the forward-facing child restraint.

When the passenger sensing system has turned off the front outboard passenger frontal airbag and knee airbag (if equipped), the off indicator on the passenger airbag status indicator should light and stay lit when the vehicle is started. See Passenger Airbag Status Indicator (U.S. and Canada) on page 5-12.

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

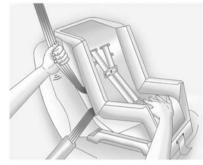


4. Push the latch plate into the buckle until it clicks.

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



 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.

 Before placing a child in the child restraint, make sure it is securely held in place. To check, grasp the child restraint at the safety 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 passenger sensing system has turned off the airbags, 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 (U.S. and Canada) on page 3-36.

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

Securing Child Restraints (Front Passenger Seat – Mexico)

This vehicle has airbags. A rear seat is a safer place to secure a forward-facing child restraint. See Where to Put the Restraint on page 3-49.

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 passenger airbag inflates. This is because the back of the rear-facing child restraint would be very close to the inflating airbag. Secure rear-facing child restraints in a rear seat.

(Continued)

Warning (Continued)

A child in a forward-facing child restraint can be seriously injured or killed if the front outboard passenger airbag inflates and the passenger seat is in a forward position. If you secure a forward-facing child restraint in the front outboard passenger seat, always move the passenger seat as far back as it will go. It is better to secure the child restraint in a rear seat.

If the child restraint uses a top tether, see Lower Anchors and Tethers for Children (LATCH System) on page 3-50 for top tether anchor locations.

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 strap must be anchored.

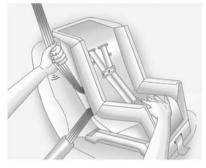
When using the lap-shoulder belt to secure the child restraint in this position, follow the instructions that came with the child restraint and the following instructions:

- Move the seat as far back as it will go before securing the forward-facing child restraint.
- 2. Put the child restraint on the seat.
- Pick up the latch plate, and run the lap and shoulder portions of the vehicle's safety 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 so that the safety belt could be quickly unbuckled if necessary.



5. 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. Before placing a child in the child restraint, make sure it is securely held in place. To check, push and pull the child restraint in different directions to be sure it is secure.

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

3-66 Seats and Restraints

№ NOTES		

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Underseat Storage 4-	
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Roof Rack System 4-	

Storage Compartments

Marning

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



If equipped, pull the handle to open.



Slide the latch to open.



4-2 Storage

Press the button to open the storage above the glovebox.

Cupholders



If equipped, pull the rear seat armrest down to access.

Sunglasses Storage

There may be sunglasses storage over the driver door. Pull to open.

Underseat Storage

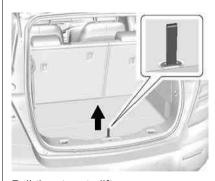


If equipped, there is storage under the front passenger seat. Lift the end of the tray up and pull it forward to open. Push it in toward the seat to close.

Additional Storage Features

Cargo Management System

This vehicle has a cargo management system in the rear.

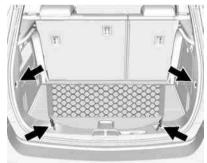


Pull the strap to lift.



Fold the load floor. Place the hook from the load floor inside the hook on the side trim.

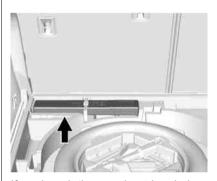
Convenience Net



The vehicle may have a convenience net. Attach the net to the cargo tie-downs.

The net is used to store small loads and should not be used for heavy loads.

Warning Triangle



If equipped, the warning triangle is stowed in the rear storage compartment.

Roof Rack System

Marning

If something is carried on top of the vehicle that is longer or wider than the roof rack — like paneling, plywood, or a mattress — the wind can catch it while the vehicle is being driven. The item being carried could be violently torn off, and this could cause a collision and damage the vehicle. Never carry something longer or wider than the roof rack on top of the vehicle unless using a GM certified accessory carrier.

For vehicles with a roof rack, the rack can be used to load items. For roof racks that do not have crossrails included, GM Certified crossrails can be purchased as an accessory. See your dealer for additional information.

⚠ Caution

Loading cargo on the roof rack that weighs more than 75 kg (165 lb) or hangs over the rear or sides of the vehicle may damage the vehicle. Load cargo so that it rests evenly between the crossrails, making sure to fasten cargo securely.

To prevent damage or loss of cargo when driving, check to make sure crossrails and cargo are securely fastened. Loading cargo on the roof rack will make the vehicle's center of gravity higher. Avoid high speeds,

sudden starts, sharp turns, sudden braking, or abrupt maneuvers; otherwise it may result in loss of control. If driving for a long distance, on rough roads, or at high speeds, occasionally stop the vehicle to make sure the cargo remains in its place. Do not exceed the maximum vehicle capacity when loading the vehicle.

See Vehicle Load Limits on page 9-10.

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Controls

Steering Wheel Adjustment



To adjust the steering wheel:

- 1. Pull the lever down.
- Move the steering wheel up, down, forward, and backward.
- 3. Pull the lever up to lock the steering wheel in place.

Do not adjust the steering wheel while driving.

Steering Wheel Controls



Some audio steering wheel controls could differ depending on the vehicle's options. Some audio controls can be adjusted at the steering wheel.

page 7-27 or Bluetooth (Overview) on page 7-26 or OnStar (if equipped).

Mute/End Call): Press to decline an incoming call, to end speech recognition, or to end a current call. Press to silence the vehicle speakers while using the infotainment system. Press again to turn the sound on.

For vehicles with OnStar or Bluetooth systems, press to reject an incoming call, or end a current call.

 \triangle **SRC** ∇ (**Source**): Press to select an audio source.

Toggle up or down to select the next or previous favorite radio station, CD/MP3 track, USB file, iPod/ iPhone song or Bluetooth music.

Toggle and hold up or down to fast forward or reverse the radio stations, CD/MP3 tracks, USB files, iPod/iPhone songs or Bluetooth music.

+ \triangleright - (Volume): Press + or - to increase or decrease the volume.

Horn

Press 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.

Move the lever to one of the following positions:

HI: Use for fast wipes.

LO: Use for slow wipes.



INT (Intermittent Wipes): Move the lever up to INT for intermittent wipes, then turn the $^{\triangleleft}\widehat{\nabla}$ INT band up for more frequent wipes or down for less frequent wipes.

OFF: Use to turn the wipers off.

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

(Windshield Washer): Pull the windshield wiper lever toward you to spray windshield washer fluid and activate the wipers. The wipers will continue until the lever is released or the maximum wash time is reached. When the windshield wiper lever is released, additional wipes

may occur depending on how long the windshield washer had been activated. See *Washer Fluid on* page 10-21 for information on filling the windshield washer fluid reservoir.

Marning

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.

Clear snow and ice from the wiper blades before using them. If frozen to the windshield, carefully loosen or thaw them. Damaged wiper blades should be replaced. See *Wiper Blade Replacement on page 10-27*.

Heavy snow or ice can overload the wiper motor. A circuit breaker will stop the motor until it cools down.

Rear Window Wiper/ Washer

If equipped with the rear wiper/ washer, the controls are on the end of the windshield wiper lever.



ON: Press the upper portion of the button for continuous rear window wipes.

OFF: The rear wiper turns off when the button is returned to the middle position.

INT (Intermittent Rear Wipes):

Press the lower portion of the button to set a delay between wipes.

TW REAR (Rear Washer): Push the windshield wiper lever forward to spray washer fluid on the rear window. The lever returns to its starting position when released.

Reverse Gear Wipes

If the rear wiper control is off, the rear wiper will automatically operate continuously when the shift lever is in R (Reverse), and the front windshield wiper is performing low or high speed wipes. If the rear wiper control is off, the shift lever is in R (Reverse), and the front windshield wiper is performing interval wipes, then the rear wiper automatically performs interval wipes.

This feature can be changed. See *Vehicle Personalization on page 5-28.*

The windshield washer reservoir is used for the windshield and the rear window. Check the fluid level in the

reservoir if either washer is not working. See *Washer Fluid on page 10-21*.

Compass

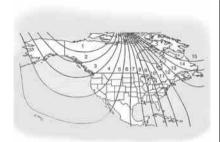
The vehicle may have a compass display in the Driver Information Center (DIC).

Setting the Compass Zone

Under certain circumstances, such as during a long trip or moving to a new area, the compass zone will need to be reset. If the compass is not set to the correct zone, it may give false readings. The compass zone should be set to the area in which the vehicle is currently traveling.

Use the DIC buttons to set the compass zone:

- While the vehicle is in P (Park), press the MENU button to display the DIC menu.
- 2. Press and hold SET/CLR while the Set Area display is active.



- Find the vehicle's current location and zone number on the map. Zones 1 through 15 are available.
- 4. Use $\triangle \nabla$ to change to the correct zone number.
- 5. Press SET/CLR to confirm the setting.

Clock

Radio without Touchscreen

The infotainment system controls are used to access the time and date settings through the menu

system. See *Operation on page 7-8* for information about how to use the menu system.

Setting the Time and Date

- 1. Press ①.
- 2. Select Set Time or Set Date.
- 3. Turn the MENU/TUNE knob to the desired value.
- 4. Press the MENU/TUNE knob to select the value.
- 5. Turn the MENU/TUNE knob to change the desired value.
- 6. To save and return to the Time Settings menu, press the ⇔ BACK button at any time.

Setting the 12/24 Hour Format

- Press ⊕.
- 2. Select Set Time Format.
- Press the MENU/TUNE knob to select the 12 hour or 24 hour display format.

Setting the Month and Day Format

- 1. Press ⊕.
- 2. Select Set Date Format.
- 3. Turn the MENU/TUNE knob to the desired setting.
- Press the MENU/TUNE knob to select the DD/MM/YYYY (day/ month/year), MM/DD/YYYY (month/day/year), or YYYY/MM/ DD (year/month/day) display format.

Radio with Touchscreen

The infotainment system controls are used to access the time and date settings through the menu system. See *Operation on page 7-8* for information about how to use the menu system.

Setting the Time and Date

 Press ♠, and then press settings.

- 2. Press time and date settings, and then set time and date.
- Press ∧ or ∨ to adjust the value.
- 4. Press OK.

Setting the 12/24 Hour Format

- 1. Press ☑ , and then press settings.
- 2. Press time and date settings, and then set time format.
- 3. Select 12/24 HR Format.

Setting the Month and Day Format

- 1. Press ⚠ , and then press settings.
- 2. Press time and date settings, and then set date format.
- Set the date display to DD/MM/ YYYY (day/month/year), MM/ DD/YYYY (month/day/year), or YYYY/MM/DD (year/month/ day) display format.

Power Outlets

The accessory power outlets can be used to plug in electrical equipment, such as a cell phone or MP3 player.

The vehicle has an accessory power outlet in front of the cupholders on the center stack. There may also be one on the rear of the center console.

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

Marning

Power is always supplied to the outlets. 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 accessory power plugs may not be compatible with the accessory power outlet and could overload vehicle or adapter fuses. If a problem is experienced, see your dealer.

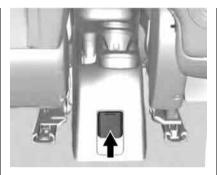
When adding electrical equipment, be sure to follow the proper installation instructions included with the equipment. See *Add-On Electrical Equipment on page 9-44*.

⚠ 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.

Power Outlet 120 Volt Alternating Current

If equipped, this power outlet is on the rear of the center console. It can be used to plug in electrical equipment that uses a maximum limit of 150 watts.



An indicator light on the outlet turns on to show it is in use. The light comes on when the ignition is in ON/RUN and equipment requiring less than 150 watts is plugged into the outlet, and no system fault is detected.

The indicator light does not come on when the ignition is in LOCK/OFF or if the equipment is not fully seated into the outlet.

If equipment is connected using more than 150 watts or a system fault is detected, a protection circuit shuts off the power supply and the

indicator light turns off. To reset the circuit, unplug the item and plug it back in or turn the Retained Accessory Power (RAP) off and then back on. See Retained Accessory Power (RAP) on page 9-19. The power restarts when equipment using 150 watts or less is plugged into the outlet and a system fault is not detected.

The power outlet is not designed for and may not work properly, if the following are plugged in:

- Equipment with high initial peak wattage such as: compressor-driven refrigerators and electric power tools.
- Other equipment requiring an extremely stable power supply such as: microcomputer-controlled electric blankets, touch sensor lamps, etc.
- · Medical equipment.

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.

Warning lights come on when there could be a problem with a vehicle function. Some warning lights come on briefly when the engine is started to indicate they are working.

Gauges can indicate when there could be a problem with a vehicle function. Often gauges and warning lights work together to indicate a problem with the vehicle.

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 Shown, Metric Similar

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.

Press the trip odometer reset stem on the cluster to switch between the odometer and trip odometer.

To reset the trip odometer to zero, press and hold the trip odometer reset stem while the trip odometer is displayed. Be careful not to reset the engine oil life monitor accidentally.

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 (Continued)

Caution (Continued)

by the vehicle warranty. Do not operate the engine with the rpm's in the warning area.

Fuel Gauge



The fuel gauge indicates about how much fuel is left when the ignition is turned to ON/RUN.

When the tank nears empty, the low fuel warning light will come on. There is still a little fuel left, but the

vehicle's fuel tank should be filled soon. See *Low Fuel Warning Light* on page 5-21 for more information.

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

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

- At the service station, the gas 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 may have 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 indicator moves a little when turning a corner or speeding up.
- The gauge goes back to empty when the ignition is turned off.

Safety Belt Reminders

Driver Safety Belt Reminder Light

There is a driver safety 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 safety 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 safety belt is buckled, neither the light nor the chime comes on.

Passenger Safety Belt Reminder Light

The vehicle may also have a passenger safety belt reminder light.



When the vehicle is started, this light flashes and a chime may come on to remind passengers to fasten their safety belt. Then the light stays on solid until the belt is buckled.

This cycle continues several times if the front passenger remains or becomes unbuckled while the vehicle is moving.

If the front passenger safety belt is buckled, neither the chime nor the light comes on.

The front passenger safety 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 safety 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), passenger sensing system (if equipped), the pretensioners, the airbag modules, the wiring, and the crash sensing and diagnostic module. For more information on the airbag system, see Airbag System (Mexico) on page 3-28 or Airbag System (U.S. and Canada) on page 3-26.



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.

Passenger Airbag Status Indicator (U.S. and Canada)

The vehicle has a passenger sensing system. See Passenger Sensing System (U.S. and Canada) on page 3-36 for important safety

information. The instrument panel has a passenger airbag status indicator.



United States



Canada

When the vehicle is started, the passenger airbag status indicator will light ON and OFF, or the symbol for on and off, for several seconds as a system check. Then, after several 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 and knee 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 and knee airbag are allowed to inflate.

If the word OFF or the off symbol is lit on the passenger airbag status indicator, it means that the passenger sensing system has turned off the front outboard passenger frontal airbag and passenger knee 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.

Marning

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 Light on page 5-12* for more information, including important safety information.

Charging System Light



This light will come on briefly when the ignition is turned on, and the engine is not running, as a check to show it is working. It should go out when the engine is started. If it 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. If a short distance must be driven with the light on, turn off all accessories, such as the radio and air conditioner, to help reduce the drain on the battery.

Malfunction Indicator Lamp

A computer system called OBD II (On-Board Diagnostics-Second Generation) monitors the operation of the vehicle to ensure emissions are at acceptable levels, helping to maintain a clean environment. The malfunction indicator lamp comes on when the vehicle is placed in ON/RUN, as a check to show it is working. If it does not, have the vehicle serviced by your dealer. See *Ignition Positions on page 9-15* for more information.



If the malfunction indicator lamp comes on while the engine is running, this indicates that the OBD II system has detected a problem and diagnosis and service might be required.

Malfunctions often are indicated by the system before any problem is apparent. Being aware of the light can prevent more serious damage to the vehicle. This system also assists the service technician in correctly diagnosing any malfunction.

If the vehicle is continually driven with this light on, the emission controls might not work as well,

(Continued)

Caution (Continued)

the vehicle fuel economy might not be as good, and the engine might not run as smoothly. This could lead to costly repairs that might not be covered by the vehicle warranty.

⚠ Caution

Modifications made to the engine, transmission, exhaust, intake, or fuel system of the vehicle or the replacement of the original tires with other than those of the same Tire Performance Criteria (TPC) can affect the vehicle's emission controls and can cause this light to come on.

Modifications to these systems could lead to costly repairs not covered by the vehicle warranty. This could also result in a failure (Continued)

Caution (Continued)

to pass a required Emission Inspection/Maintenance test. See Accessories and Modifications on page 10-2.

This light comes on during a malfunction in one of two ways:

Light Flashing: A misfire condition has been detected. A misfire increases vehicle emissions and could damage the emission control system on the vehicle. Diagnosis and service might be required.

To prevent more serious damage to the vehicle:

- Reduce vehicle speed.
- · Avoid hard accelerations.
- Avoid steep uphill grades.

If the light continues to flash, find a safe place to stop and park the vehicle. Turn the vehicle off, wait at least 10 seconds, and restart the engine. If the light is still flashing,

follow the previous steps and see your dealer for service as soon as possible.

Light On Steady: An emission control system malfunction has been detected on the vehicle. Diagnosis and service might be required.

The following may correct an emission control system malfunction:

- Check that the fuel cap is fully installed. See Filling the Tank on page 9-41. The diagnostic system can determine if the fuel cap has been left off or improperly installed. A loose or missing fuel cap allows fuel to evaporate into the atmosphere. A few driving trips with the cap properly installed should turn the light off.
- Check that good quality fuel is used. Poor fuel quality causes the engine not to run as efficiently as designed and may cause stalling after start-up,

stalling when the vehicle is changed into gear, misfiring, hesitation on acceleration, or stumbling on acceleration. These conditions might go away once the engine is warmed up.

If one or more of these conditions occurs, change the fuel brand used. It may require at least one full tank of the proper fuel to turn the light off.

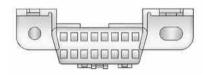
See Fuel on page 9-40.

If none of the above have made the light turn off, your dealer can check the vehicle. The dealer has the proper test equipment and diagnostic tools to fix any mechanical or electrical problems that might have developed.

Emissions Inspection and Maintenance Programs

Depending on where you live, your vehicle may be required to participate in an emission control system inspection and maintenance program. For the inspection, the

emission system 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. See your dealer if assistance is needed.

The vehicle may not pass inspection if:

- The malfunction indicator lamp is on with the engine running, or if the light does not come on when the ignition is turned to ON/RUN while the engine is off. See your dealer for assistance in verifying proper operation of the malfunction indicator lamp.
- The OBD II (On-Board Diagnostics) system determines that critical emission control

systems have not been completely diagnosed. The vehicle would be considered not ready for inspection. This can happen if the 12-volt battery has recently been replaced or run down. The diagnostic system is designed to evaluate critical emission control systems during normal driving. This can take several days of routine driving. If this has been done and the vehicle still does not pass the inspection for lack of OBD II system readiness, your dealer can prepare the vehicle for inspection.

Service Vehicle Soon Light



For vehicles with this light, it comes on if a condition exists that may require the vehicle to be taken in for service.

If the light comes on, take the vehicle to your dealer for service as soon as possible.

Owner Manual Indicator



This symbol is shown when you need to see the owner manual for additional instructions or information.

Brake System Warning Light

With the ignition on, the brake system warning light comes on when the parking brake is set. If the vehicle is driven with the parking brake engaged, a chime sounds when the vehicle speed is greater than 8 km/h (5 mph).

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 and a chime sounds there could be a brake problem. Have the brake system inspected right away.

This light can also come on due to low brake fluid. See *Brake Fluid on page 10-23* for more information.





BRAKE

Metric

English

This light comes on briefly when the ignition key is turned to ON/RUN. If it does not come on then, have it fixed so it is ready to warn if there is a problem.

Marning

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.

If the light comes on while driving, pull off the road and stop carefully. The pedal might be harder to push or might go closer to the floor. It can take longer to stop. If the light is still on, have the vehicle towed for service. See *Towing the Vehicle on page 10-71*.

Antilock Brake System (ABS) Warning Light



This light comes on briefly when the engine is started.

If the light stays on, turn the ignition to LOCK/OFF or if the light comes on, stop as soon as possible and turn the ignition off. Then start the engine again to reset the system. If the light still stays on, or comes on again while driving, the vehicle needs service. See your dealer. If the regular brake system warning light is not on, the brakes will still work, but the antilock brakes will not work. If the regular brake system warning light is also on, the antilock brakes will not work and there is a

problem with the regular brakes. See *Brake System Warning Light on* page 5-16.

The ABS warning light will come on briefly when the ignition is turned to ON/RUN. This is normal. If the light does not come on then, have it fixed so it will be ready to warn if there is a problem.

Up-Shift Light



The vehicle may have an up-shift light.

When this light comes on, shift to the next higher gear if weather, road, and traffic conditions allow.

Power Steering Warning Light



If equipped, this light comes on briefly when the ignition is turned to ON/RUN as a check to show it is working.

If it does not come on have the vehicle serviced by your dealer.

If this light stays on, or comes on while driving, the system may not be working. If this happens, see your dealer for service.

Ultrasonic Parking Sensor Light



If equipped, this light comes on to indicate that there is a malfunction in the system. See your dealer for service.

See Parking Assist on page 9-37.

Traction Off Light



If equipped, 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/StabiliTrak button.

This light and the StabiliTrak OFF light come on when StabiliTrak is turned off.

If the TCS is off, wheel spin is not limited. Adjust driving accordingly.

See Traction Control/Electronic Stability Control on page 9-31.

StabiliTrak[®] OFF Light



If equipped, 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 StabiliTrak system is turned off. If StabiliTrak is off, the Traction Control System (TCS) is also off.

If the TCS is off, the system does not assist in controlling the vehicle. Turn on the TCS and the StabiliTrak systems and the warning light turns off.

See Traction Control/Electronic Stability Control on page 9-31.

Traction Control System (TCS)/StabiliTrak[®] Light



If equipped, the StabiliTrak or Traction Control System (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 StabiliTrak system have been disabled.

If the indicator/warning light is on and flashing, the TCS and/or the StabiliTrak system is actively working.

See Traction Control/Electronic Stability Control on page 9-31.

Engine Coolant Temperature Warning Light



This light comes on briefly while starting the vehicle.

If it does not, have the vehicle serviced by the 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

(Continued)

Caution (Continued)

by the vehicle warranty. See *Engine Overheating on* page 10-19.

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 on page 10-19*.

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.

Stop as soon as possible, and inflate the tires to the pressure value shown on the Tire and Loading Information label. See *Tire Pressure on page 10-48*.

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 on page 10-50*.

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 comes on for a few seconds when the ignition is turned on as a check to indicate it is working. If it does not come on, have it fixed.

This light comes on when the vehicle is low on fuel

The low fuel warning light comes on when there are approximately 6.0 L (1.7 gal) of fuel remaining in the tank.

To turn the light off, add fuel to the fuel tank. See *Filling the Tank on page 9-41*.

Immobilizer Light



The immobilizer 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 immobilizer system. See *Immobilizer Operation* on page 2-11.

Reduced Engine Power Light



The reduced engine power light should come on briefly as the engine is started. If it does not come on, have the vehicle serviced by your dealer.

This light, along with the malfunction indicator lamp, displays when a noticeable reduction in the vehicle's performance occurs.

The vehicle can be driven at a reduced speed when the reduced engine power light is on but acceleration and speed might be reduced. If this light stays on, see your dealer as soon as possible for diagnosis and repair.

High-Beam On Light



This light comes on when the high-beam headlamps are in use.

See Headlamp High/Low-Beam Changer on page 6-2.

Daytime Running Lamps (DRL) Indicator Light



If equipped, this light turns on whenever the Daytime Running Lamps are in use.

See Daytime Running Lamps (DRL) on page 6-2.

Front Fog Lamp Light



For vehicles with front fog lamps, this light comes on when the front fog lamps are in use.

The light goes out when the front fog lamps are turned off. See *Front Fog Lamps on page 6-4* for more information.

Lamps On Reminder



This light comes on when the exterior lamps are in use. See Exterior Lamp Controls on page 6-1.

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 on page 9-34*.

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

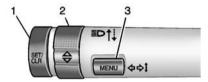
Driver Information Center (DIC)

If equipped, the DIC displays information about your vehicle. It also displays warning messages if a system problem is detected. See *Vehicle Messages on page 5-25*. All messages appear in the DIC display in the instrument cluster. See *Trip Computer on page 5-26* and *Vehicle Messages on page 5-25*.

DIC Operation and Displays

The DIC has different displays which can be accessed by using the DIC buttons on the turn signal lever on the left side of the steering wheel. The DIC displays trip, fuel, and warning messages if a system problem is detected.

DIC Buttons



- SET/CLR: Press to set or clear the menu item displayed. This is not used to reset the trip odometer. To reset the trip odometer, use the reset button on the tachometer in the instrument cluster.
- △ ∇ (Thumbwheel): Use to scroll through the items in each menu.
- MENU: Press to display the DIC menus. This button is also used to return to or exit the last screen displayed on the DIC.

DIC Menu Items

Press MENU to view the DIC menus. Some items display in the upper display area, some in the lower display area, and others use both the upper and lower display areas. Use $\triangle \nabla$ to scroll through the menu items. Not all items are available on every vehicle. The following is a list of all possible menu items:

- Remaining Oil Life
- Units
- Language
- Compass
- · Tire Learn

Remaining Oil Life

This menu is not available while the vehicle is moving. This display shows an estimate of the oil's remaining useful life. If 99 % % is displayed, that means 99% of the current oil life remains.

When the remaining oil life is low, the "" % CHANGE message will appear on the display. The oil should be changed as soon as possible. See *Engine Oil on page 10-9*. In addition to the engine oil life system monitoring the oil life, additional maintenance is recommended in the Maintenance Schedule. See *Maintenance Schedule on page 11-2*.

Remember, the oil life display must be reset after each oil change. It will not reset itself. Also, be careful not to 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 the SET/CLR button while the oil life display is active. See Engine Oil Life System on page 10-11.

Units

This menu is not available while the vehicle is moving. Press SET/CLR while the unit display is active and move △ ▽ to change units when UNIT SET is displayed. Press SET/CLR to confirm the setting. Select 1, 2, or 3 for the unit display. 1 is Imperial units, 2 is US units, and 3 is metric units. This will change the displays on the cluster and DIC to the type of measurements selected.

Language

This menu is not available while the vehicle is moving. Press SET/CLR while the language display is active and move △ ▽ to change the language of the displays when LANG SET is displayed. Select 1 or 2 for the language display. 1 is Alphabet and 2 is Arabic Numeral. Press SET/CLR to confirm the setting.

Compass

See *Compass on page 5-4* for information on setting the compass.

Tire Learn

This display allows for matching of the TPMS sensors. See *Tire Pressure Monitor System on page 10-49* and *Tire Pressure Monitor Operation on page 10-50*.

Vehicle Messages

DIC messages display when the status of the vehicle has changed and action may be needed to correct the condition. Multiple messages appear one after another.

Press any of the DIC buttons on the turn signal lever to acknowledge and clear them from the display. More urgent messages cannot be cleared from the DIC display. All messages should be taken seriously. Clearing messages will not correct the problem.

Vehicle messages appear as code numbers.

25: Left Front Turn Indicator Failure

26: Left Rear Turn Indicator Failure

27: Right Front Turn Indicator Failure

28: Right Rear Turn Indicator Failure

73: Service All Wheel Drive System

84: Engine Power Is Reduced

89: Service Vehicle Soon

125: Compass Calibrating — Drive

in Circles

173: All Wheel Drive Off

Engine Oil Messages

℃% CHANGE

This message displays when the engine oil needs to be changed. When changing the engine oil, be sure to reset the Oil Life System. See Engine Oil Life System on page 10-11, Engine Oil on page 10-9, and Maintenance Schedule on page 11-2.

Tire Messages LF XX, RF XX, LR XX, or RR XX

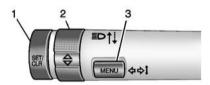
A message displays when the tire pressure is low. It shows the location of the low tire and the approximate pressure of the low tire.

If a tire pressure message appears, stop as soon as you can. Inflate the tires by adding air until the tire pressure is equal to the values shown on the Tire and Loading Information label. See *Tires on page 10-41*, *Vehicle Load Limits on page 9-10*, and *Tire Pressure on page 10-48*.

Trip Computer

The trip computer is located in the Driver Information Center (DIC).

It provides the driver with driving information such as average speed, fuel range, average fuel economy, and a timer.



- SET/CLR: Press to set or clear the menu item displayed. This is not used to reset the trip odometer. To reset the trip odometer, use the reset button on the tachometer in the instrument cluster.
- △∇ (Thumbwheel): Turn the band to scroll through the menu items.

 MENU: Press to display the DIC menus. This button is also used to return to or exit the last screen displayed on the DIC.

To operate the trip computer, turn band on the turn signal lever.

The following is a list of the trip computer items:

- Average Speed
- Fuel Range
- Average Fuel Economy
- Timer

Some items can be reset by pressing the SET/CLR button.

Average Speed



km/h

Metric



English

This display shows the average speed. To reset the average speed to zero, press and hold the SET/ CLR button while the average speed is displayed.

Fuel Range



Metric Shown, English Similar

This displays the approximate distance the vehicle can be driven without refueling. 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.

Average Fuel Economy



Metric



English

This display shows 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. To reset the average fuel economy, press and hold the SET/CLR button while the average fuel economy is displayed.

Timer



This display can be used as a timer. To start the timer, press SET/CLR while the timer is displayed. The display will show the amount of time that has passed since the timer was last reset, not including time the ignition is off. The timer will record up to 99:59 hours, after which the display will return to zero. To reset the timer to zero, press and hold SET/CLR.

Vehicle Personalization

Personalization Menu (Radio without Touchscreen)

The audio system controls and touchscreen are used 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.

CONFIG (Configuration): Press to access the Configuration Settings Menu.

MENU/TUNE: Turn to scroll through the menus or setup items. Press to enter the menus and select the menu items.

⇔ BACK : Press to exit or return to the previous screen or menu.

To access a menu:

1. Press the CONFIG button.

- 2. Turn the MENU/TUNE knob to select the desired menu.
- 3. Press the MENU/TUNE knob.

Settings menus and functions may vary depending on vehicle options.

Press the CONFIG button and the following list of menu items may be available:

- Languages
- Time and Date Settings
- Radio Settings
- Bluetooth Settings
- Vehicle Settings

Languages

Select Language, then select from the available language(s).

Time and Date Settings

See "Setting the Time and Date" in "Radio without Touchscreen" under *Clock on page 5-5*.

Radio Settings

Select the Radio Settings menu and the following may be displayed:

- Auto Volume
- Maximum Startup Volume
- Radio Favorites

Auto Volume

The auto volume feature automatically adjusts the radio volume to compensate for road and wind noise as the vehicle speeds up or slows down, so that the volume level is consistent.

Select the desired value.

Maximum Startup Volume

Select this to manually set the startup volume of the radio.

Select the desired value.

Radio Favorites

This feature allows for the manual setting of the number of favorite pages.

Select the desired number.

Bluetooth Settings

Select and the following may display:

- Bluetooth
- Return to Factory Settings

Bluetooth

Select and the following may display:

- Activation
- Device List
- Pair Device
- Change Bluetooth Code

Activation

When on, the system will allow a Bluetooth device to connect.

Select On or Off.

Device List

This allows the management of a Bluetooth device.

Select Connect, Separate, or Delete.

Pair Device

This allows the pairing of a new Bluetooth device. See "Infotainment Controls" in *Bluetooth (Voice Recognition) on page 7-36* or *Bluetooth (Infotainment Controls) on page 7-27* or *Bluetooth (Overview) on page 7-26*.

Change Bluetooth Code

This allows the code to be manually changed or set.

Return to Factory Settings

Select to return all of the vehicle personalization to the default settings.

Select Yes or No.

Vehicle Settings

Select and the following may display:

- · Comfort and Convenience
- Collision/Detection Systems
- Lighting
- Power Door Locks

- · Remote Lock, Unlock, Start
- Return to Factory Settings

Comfort and Convenience

Select and the following may display:

- Chime Volume
- Auto Wipe in Reverse Gear

Chime Volume

This allows this feature to be changed.

Select Normal or High.

Auto Wipe in Reverse Gear

This allows this feature to be turned on or off. When on, and the front wipers are on, the rear window wiper will turn on automatically when the vehicle is shifted into R (Reverse).

Select On or Off.

Collision/Detection Systems

If equipped, select and the following may display:

Park Assist

Park Assist

This allows this feature to be turned on or off.

Select On or Off.

Lighting

Select and the following may display:

Exit Lighting

Exit Lighting

This allows the selection of how long the exterior lamps stay on when leaving the vehicle and it is dark outside.

Select the desired time.

Power Door Locks

Select and the following may display:

Auto Door Unlock

- · Unlocked Door Anti Lock Out
- Delayed Door Lock

Auto Door Unlock

This allows selection of which of the doors will automatically unlock when the vehicle is shifted into P (Park).

Select All Doors, Driver Door, or Off.

Unlocked Door Anti Lock Out

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 and the door will lock as programmed through this menu.

Select On or Off.

Delayed Door Lock

When on, this feature will delay the locking of the doors after the last door is closed.

Select On or Off.

Remote Lock, Unlock, Start

Select and the following may display:

- Remote Unlock Light Feedback
- Remote Lock Feedback
- Remote Door Unlock

Remote Unlock Light Feedback

When on, the exterior lamps will flash when unlocking the vehicle with the Remote Keyless Entry (RKE) transmitter.

Select Flash Lights or Lights Off.

Remote Lock Feedback

Select from Lights and Horn, Lights Only, Horn Only, or Off.

Remote Door Unlock

This allows selection of which doors will unlock when pressing $\widehat{\bullet}$ on the RKE transmitter.

When set to Driver Door, the driver door will unlock the first time is pressed and all doors will unlock when the button is pressed a second time. When set to All Doors, all of the doors will unlock at the first press of.

Select from Driver Door or All Doors.

Personalization Menu (Radio with Touchscreen)

Settings can be made with the ignition on and the vehicle not moving.

The following are all possible personalization features. Depending on the vehicle, some may not be available.

(Home): Press to access the Home Page Menu.

 \blacktriangle or \blacktriangledown : Press to scroll through the menus or setup items.

T: Press to exit or return to the previous screen or menu.

To access the menu:

- 1. Press
- 2. Press Settings.
- 3. Press the desired setting.

Press the menu item to select it. Each of the menus is detailed in the following information.

Settings menus and functions may vary depending on vehicle options.

The following may be available:

- Time & Date Settings
- Radio Settings
- Connection Settings
- Vehicle Settings
- Language
- Text Scroll
- Touch Beep Volume
- Max Startup Volume
- System Version
- DivX[®] VOD

Time & Date Settings

See "Setting the Time and Date" in "Radio with Touchscreen" under Clock on page 5-5.

Radio Settings

Select and the following may display:

- Auto Volume
- Radio Favorites
- Radio Tune Bar
- Radio Text
- XM Categories
- Radio Factory Settings

Auto Volume

The auto volume feature automatically adjusts the radio volume according to vehicle speed.

Select Off, Low, Medium, or High.

Radio Favorites

This feature allows for the manually setting of the number of favorite pages.

Select 1-5.

Radio Tune Bar

This feature allows for the station tune bar to be viewed on the screen.

Select On or Off.

Radio Text

This feature allows text to be viewed on the screen.

Select On or Off.

XM Categories

This feature allows the selection of XM categories.

Radio Factory Settings

Select to restore the radio values to the factory settings.

Connection Settings

Select and the following may display:

- Bluetooth Settings
- Change Ringtone

· Ringtone Volume

Bluetooth Settings

Select and the following may display:

- Pair Device
- · Change PIN Code
- Discoverable
- Device Info

Pair Device

This allows for a device to be connected, disconnected, or deleted.

Select the desire option.

Change PIN Code

This allows to manually change or set a device Personal Identification Number (PIN) code.

Discoverable

This allows a connection from a Bluetooth phone.

Select On or Off.

Device info

This allows the device information to be checked.

Change rRngtone

This allows the selection of a ringtone.

Select the desired ringtone.

Ringtone Volume

This allows the selection of a ringtone volume.

Select the desired ringtone volume.

Vehicle Settings

Select and the following may display:

- Climate & Air quality
- Comfort & Convenience
- Collision/Detection
- Lighting
- Power Door Locks
- Lock, Unlock Settings
- Rear Camera Option

Vehicle Factory Settings

Climate & Air Quality

Select and the following may display:

Remote Start Heated Seats

Remote Start Heated Seats

When on, this feature will turn the heated seats on when using the remote start on cold days.

Select On or Off.

Comfort and Convenience

Select and the following may display:

- Chime Volume
- Auto Wipe in Reverse Gear

Chime Volume

This allows selection of the chime volume level.

Select Normal or High.

Auto Wipe in Reverse Gear

This allows this feature to be turned on or off. When on, and the front wipers are on, the rear window wiper will turn on automatically when the vehicle is shifted into R (Reverse).

Select On or Off.

Collision/Detection

Select and the following may display:

Park Assist

Park Assist

This allows this feature to be turned on or off.

Select On or Off.

Lighting

Select and the following may display:

- Exit Lighting
- Vehicle Locator Lights

Exit Lighting

This allows selection of how long the exterior lamps stay on when leaving the vehicle and it is dark outside.

Select On or Off.

Vehicle Locator Lights

This allows the vehicle locator lights to be turned on or off. The vehicle locator lights come on when unlocking the vehicle with the RKE transmitter.

Select Off, 30 Sec, 60 Sec, or 120 Sec.

Power Door Locks

Select and the following may display:

- Auto Door Unlock
- Unlocked Door Anti Lock Out
- Delayed Door Lock

Auto Door Unlock

This allows selection of which of the doors will automatically unlock when the vehicle is shifted into P (Park).

Select All Doors, Driver Door, or Off.

Unlocked Door Anti Lock Out

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 and the door will lock as programmed through this menu.

Select On or Off.

Delayed Door Lock

When on, this feature will delay the locking of the doors until five seconds after the last door is closed. Three chimes will signal that delayed locking is in use. Pressing either or or on the RKE transmitter twice will override the delayed locking feature and immediately lock all of the doors.

Select On or Off.

Lock, Unlock Settings

Select and the following may display:

- Remote Unlock Light Feedback
- Remote Lock Light & Horn Feedback
- Remote Door Unlock

Remote Unlock Light Feedback

When on, the exterior lamps will flash when unlocking the vehicle with the RKE transmitter.

Select Flash Lights or Lights Off.

Remote Lock Light & Horn Feedback

This allows selection of what type of feedback is given when pressing on the RKE transmitter.

Select Lights Only, Lights & Horn, Horn Only, or Off.

Remote Door Unlock

This allows selection of which doors will unlock when pressing a on the RKF transmitter.

When set to Driver Door, the driver door will unlock the first time is pressed and all doors will unlock when the button is pressed a second time. When set to All Doors, all of the doors will unlock at the first press of.

Select All Doors or Driver Door.

Rear Camera Option

Select and the following may display:

- Symbols
- Guidelines

Symbols

This feature will turn on the symbols in the rear camera display.

Select On or Off.

Guidelines

This feature will turn on the guidelines in the rear camera display.

Select On or Off.

Vehicle Factory Settings

This feature will turn the vehicle personalization to the default settings.

Select Yes or No.

Language

Select language, then select from the available language(s).

Text Scroll

This allows this feature to be turned on or off. When on, if there is long text displayed on the audio screen, the text is scrolled. When off, the text is scrolled once and displayed in truncated form.

Select On or Off.

Touch Beep Volume

This allows this feature to be turned on or off. When on, a beep will be heard when pressing the screen. When off, the beep is canceled.

Select On or Off.

Max Startup Volume

This allows the startup volume of the infotainment system to be set.

Press ≤ or > to select the desired volume between 9-21.

System Version

Select to view the version of the infotainment system.

DivX® VOD

Press DivX® VOD when highlighted.

- DIVX VIDEO: DivX[®] is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified[®] device that plays DivX video. See divx.com for more information and software tools on how to convert files into DivX videos.
- DIVX VIDEO-ON DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain a registration code, locate the DivX VOD section in the device setup menu. See vod.divx.com for more information on how to complete the registration.

Lighting

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Exterior Lighting Exterior Lamp Controls



The exterior lamp control is to the left of the steering column on the instrument panel.

There are four positions:

() (Off): Briefly turn to this position to turn the automatic lamp control off or on again.

AUTO (Automatic, If Equipped): Turns the headlamps on automatically at normal brightness, together with the parking lamps.

taillamps, license plate lamps, sidemarker lamps, and instrument panel lights.

(Parking Lamps): Turns on the parking lamps including all lamps except the headlamps.

(Headlamps): Turns on the headlamps together with the parking lamps and instrument panel lights. A warning chime sounds if the driver door is opened when the ignition switch is off and the headlamps are on.

‡O (Front Fog Lamps, If Equipped): Press to turn the lamps on or off.

See Front Fog Lamps on page 6-4.

When the lights are on, 30% will be lit. See *Lamps On Reminder on page 5-22*.

Headlamp High/ Low-Beam Changer



(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 flash the high beams, pull the turn signal lever all the way toward you. Then release it.

Daytime Running Lamps (DRL)

If equipped with DRL, they make it easier for others to see the front of your vehicle during the day. Fully functional daytime running lamps are required on all vehicles first sold in Canada.

A light sensor on top of the instrument panel makes the DRL work, so be sure it is not covered.

The DRL system makes the low-beam headlamps come on at a reduced brightness when the following conditions are met:

 The ignition is in the ON/ RUN mode.

- The exterior lamp control is in AUTO.
- The engine is running.

When the DRL are on, only the low-beam headlamps, at a reduced level of brightness, will be on. The taillamps, sidemarker, instrument panel, and other lamps will not be on.

The headlamps automatically change from DRL to the regular headlamps depending on the darkness of the surroundings. The other lamps that come on with the headlamps will also come on.

When it is bright enough outside, the headlamps go off and the DRL come on.

To turn the DRL off or on again, turn the exterior lamp control to the off position and then release. For vehicles first sold in Canada, the DRL cannot be turned off.

Automatic Headlamp System

If equipped, the headlamps come on automatically when it is dark enough outside and the exterior lamp control is in the automatic position. See Exterior Lamp Controls on page 6-1.



The vehicle has a light sensor on top of the instrument panel. Make sure it is not covered, or the headlamps will be on when they are not needed.

The system may also turn on the headlamps when driving through a parking garage or tunnel.

Lights On with Wipers

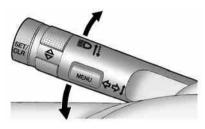
If the windshield wipers are activated in daylight with the engine on, and the exterior lamp control is in AUTO, the headlamps, parking lamps, and other exterior lamps come on. The transition time for the lamps coming on varies based on wiper speed. When the wipers are not operating, these lamps turn off. Move the exterior lamp control to or 300° to disable this feature.

Hazard Warning Flashers



(Hazard Warning Flasher):
Press and momentarily hold this button to make the front and rear turn signal lamps flash on and off. This warns others that you are having trouble. Press and momentarily hold again to turn the flashers off.

Turn and Lane-Change Signals



Move the lever all the way up or down to signal a turn.

An arrow on the instrument cluster will flash in the direction of the turn or lane change.

Raise or lower the lever until the arrow starts to flash to signal a lane change. The turn signal flashes three times.

The lever returns to its starting position when it is released.

If after signaling a turn or lane change the arrow flashes rapidly or does not come on, a signal bulb may be burned out. Replace any burned out bulbs. If a bulb is not burned out, check the fuse. See Fuses and Circuit Breakers on page 10-33.

Front Fog Lamps



If the vehicle is equipped with front fog lamps, the button is on the outboard side of the instrument panel.

The ignition must be on to turn on the fog lamps.

‡O (Front Fog Lamps): Press to turn the fog lamps on or off. An indicator light on the instrument cluster comes on when the fog lamps are on.

The fog lamps come on together with the parking lamps.

If the high-beam headlamps are turned on, the fog lamps will turn off. If the high-beam headlamps are turned off, the fog lamps will turn back on again.

Some localities have laws that require the headlamps to be on along with the fog lamps.

Interior Lighting

Instrument Panel Illumination Control



This feature controls the brightness of the instrument panel controls and infotainment display screen. The thumbwheel is to the left of the steering column on the instrument panel.

(Instrument Panel Brightness): Move the thumbwheel up or down and hold, to brighten or dim the instrument panel controls and infotainment display screen.

Courtesy Lamps

The courtesy lamps come on automatically when any door is opened and the dome lamp is in the door position.

Dome Lamps

Front and Rear Dome Lamps

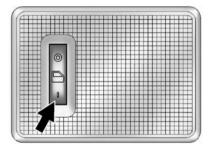


The front dome lamp controls are in the overhead console.

(Dome Lamp Override): Press to turn the lamps off, even when a door is open.

(Door): When the button is returned to the middle position, the lamps turn on automatically when a door is opened.

(On): Press to turn on the dome lamps.



The rear dome lamp controls are in the headliner above the rear seats.

O (Dome Lamp Override): Press to turn the lamps off, even when a door is open.

(Door): When the button is returned to the middle position, the lamps turn on automatically when a door is opened.

(On): Press to turn on the dome lamps.

Reading Lamps



The front reading lamps are in the overhead console.

n or do (Reading Lamps): Press to turn each lamp on or off.

Lighting Features

Battery Load Management

The vehicle has Electric Power Management (EPM) that estimates the battery's temperature and state of charge. It then adjusts the voltage for best performance and extended life of the battery.

When the battery's state of charge is low, the voltage is raised slightly to quickly bring the charge back up. When the state of charge is high, the voltage is lowered slightly to prevent overcharging. If the vehicle has a voltmeter gauge or a voltage display on the Driver Information Center (DIC), you may see the voltage move up or down. This is normal. If there is a problem, an alert will be displayed.

The battery can be discharged at idle if the electrical loads are very high. This is true for all vehicles. This is because the generator

(alternator) may not be spinning fast enough at idle to produce all the power needed for very high electrical loads.

A high electrical load occurs when several of the following are on, such as: headlamps, high beams, fog lamps, rear window defogger, climate control fan at high speed, heated seats, engine cooling fans, trailer loads, and loads plugged into accessory power outlets.

EPM works to prevent excessive discharge of the battery. It does this by balancing the generator's output and the vehicle's electrical needs. It can increase engine idle speed to generate more power, whenever needed. It can temporarily reduce the power demands of some accessories.

Normally, these actions occur in steps or levels, without being noticeable. In rare cases at the highest levels of corrective action, this action may be noticeable to the driver.

Battery Power Protection

The battery saver feature is designed to protect the vehicle's battery.

If some interior lamps or the manual parking lamps or headlamps are left on and the ignition is turned off, the battery rundown protection system automatically turns the lamp off after some time.

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Introduction

Infotainment

Read the following pages to become familiar with these features.

⚠ Warning

Taking your eyes off the road for too long or too often while using any infotainment feature can cause a crash. You or others could be injured or killed. Do not give extended attention to infotainment tasks while driving. Limit your glances at the vehicle displays and focus your attention on driving. Use voice commands whenever possible.

7-2 Infotainment System

The infotainment system has built-in features intended to help avoid distraction by disabling some functions when driving. These functions may gray out when they are unavailable. Many infotainment features are also available through the instrument cluster and steering wheel controls.

Before driving:

- Become familiar with the operation, faceplate buttons, and screen buttons.
- Set up the audio by presetting favorite stations, setting the tone, and adjusting the speakers.

 Set up phone numbers in advance so they can be called easily by pressing a single button or by using a single voice command if equipped with Bluetooth phone capability.

See Defensive Driving on page 9-3

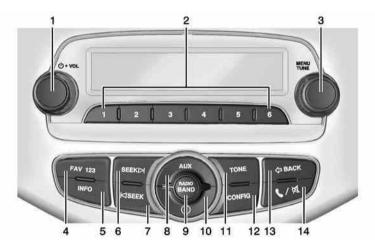
To play the infotainment system with the ignition off, see *Retained Accessory Power (RAP) on page 9-19.*

Theft-Deterrent Feature

The infotainment system has an electronic security system installed to prevent theft.

The infotainment system only works in the vehicle in which it was first installed, and cannot be used in another vehicle.

Overview (AM-FM Radio)



1. Ů/VOL (Power/Volume)

- Press to turn the system on and off.
- Turn to adjust the volume.

2. Preset Buttons 1-6

- Press and hold to store a station.
- Press to go to a preset favorite station.

3. MENU/TUNE

- Press to open menus and select menu items.
- Turn to highlight menu items or to set values while in a menu.
- Turn to manually select radio stations.

4. FAV 123 (Favorites)

Press to go to a favorite page.

5. INFO (Information)

 Press to view current radio station and current song information.

6. SEEK ⋈ (Next)

- Press to seek the next station.
- Press and hold to fast forward through the currently playing song on an external audio device.

7-4 Infotainment System

7. ⋈ SEEK (Previous)

- Press to seek the previous station.
- Press and hold to reverse through the currently playing song on an external audio device.

8. AUX (Auxiliary)

 Press to access the auxiliary input device.

9. RADIO/BAND

- Press to select AM, FM, or band.
- Press to select the radio when listening to a different audio source.

10. ⊕ (Clock)

 Press to enter the Time and Date Settings menu.

11. TONE

 Press to open the Tone menu.

12. CONFIG (Configuration)

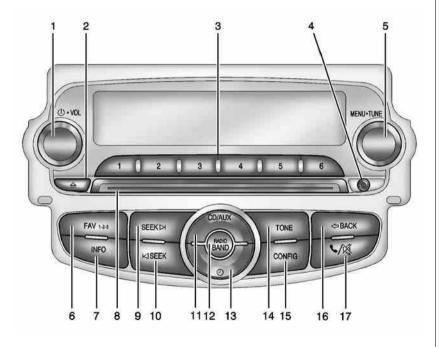
 Press to open the System Configuration menu.

- Press to go to the previous screen.
- Press to cancel entered content.

14. **♦**/ጃ (Phone/Mute)

- Press to open the Phone main menu.
- Press to mute the audio system.

Overview (Radio with CD/USB)



- 1. Ů/VOL (Power/Volume)
 - Turns the system on or off and adjusts the volume.
- 2. **(Eject)**
 - Removes a disc from the CD slot.
- 3. Preset Buttons 1-6
 - Radio: Saves and selects favorite stations.
- 4. AUX Port
 - 3.5 mm (1/8 in) connection for external devices.
- 5. MENU/TUNE
 - Radio: Manually selects radio stations.
 - CD: Selects tracks.
- 6. FAV 1-2-3 (Favorites)
 - Radio: Opens the favorites list.

7-6 Infotainment System

- 7. INFO (Information)
 - Radio: Shows available information about the current station.
 - CD: Shows available information about the current track.
- 8. CD Slot
- 9. SEEK 🗎
 - Radio: Seeks the next station.
 - CD: Selects the next track or fast forwards within a track.

10. ⋈ SEEK

- Radio: Seeks the previous station.
- CD: Selects the previous track or rewinds within a track.

11. CD/AUX

 Selects the CD player or an external audio source.

12. RADIO/BAND

- Changes the band while listening to the radio.
- Selects the radio when listening to a different audio source.

- 13. (Clock Menu)
 - Opens the Clock menu.
- 14. TONE
 - Opens the Tone menu.
- 15. CONFIG (Configuration)
 - Opens the Configuration menu.
- - Menu: Moves one level back.
 - Character Input: Deletes the last character.
- 17. ****✓/**⋈** (Phone/Mute)
 - Opens the Phone menu.
 - Mutes the audio system.

Overview (Radio with Touchscreen)



1. V VOL ∧ (Volume)

 Press to decrease or increase the volume.

2. Ů (Power)

 Press and hold to turn the power on or off.

3. ☐ (Home Page)

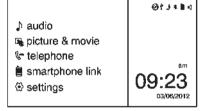
Press to go to the Home Page. See Home Page (Radio with Touchscreen) on page 7-7.

Home Page (Radio with Touchscreen)

Touchscreen Buttons

Touchscreen buttons show on the screen when available. When a function is unavailable, the button may gray out. When a function is selected, the button may highlight.

Home Page Features



Press 🖒 to go to the Home Page.

audio: Press to select AM, FM, SiriusXM (if equipped), USB/iPod/Bluetooth Audio, or AUX.

picture & movie: Press to view a picture, movie, or auxiliary video.

telephone: Press to activate the phone features (if equipped). See Bluetooth (Voice Recognition) on page 7-36 or Bluetooth (Infotainment Controls) on page 7-27 or Bluetooth (Overview) on page 7-26.

smartphone link: Press to listen to Pandora® (if equipped), Stitcher®, or available application. See Smartphone Link (Overview) on page 7-45 or Smartphone Link (Pandora) on page 7-47 or Smartphone Link (Stitcher) on page 7-49.

* settings: Press to access the Personalization menu. See Vehicle Personalization on page 5-28.

Operation

Radio Controls without Touchscreen

The infotainment system is operated by using the pushbuttons, multifunction knobs, and menus shown on the display.

Turning the System On or Off

U/VOL (Power/Volume): Press to turn the radio on and off.

Automatic Switch-Off

If the infotainment system has been turned on after the ignition is turned off, the system will turn off automatically after 10 minutes.

Volume Control



U/VOL (Power/Volume): Turn to adjust the volume.

► /⋈ (Phone/Mute): Press ► /⋈ to activate OnStar. See OnStar (if equipped).

Press and hold \ /⋈ to mute the infotainment system. Press \ /⋈ again or turn the \ /VOL knob to cancel mute.

Menu System

Controls

The MENU/TUNE knob and ⟨¬ BACK button are used to navigate the menu system.

MENU/TUNE Knob:

Turn to:

- · Highlight a menu option.
- · Select a value.

Press to:

- Enter the menu system.
- Select or activate the highlighted menu option.
- Confirm a set value.
- Turn a system setting on or off.

BACK:

Press to:

- Exit a menu.
- Go back to the previous menu screen.
- Delete the last character in a sequence.
- Press and hold to delete the entire character sequence.

Submenus

An arrow on the right-hand edge of the menu indicates that it has a submenu with other options.

Audio Settings

The audio settings can be set for each radio band and each audio player source.

Adjusting the Bass, Midrange, Treble, Fader, and Balance

- 1. Press the TONE button.
- 2. Turn the MENU/TUNE knob to the desired tone.

- 3. Press the MENU/TUNE knob to select the desired tone.
- 4. Turn the MENU/TUNE knob to adjust the desired tone.
- 5. Press the MENU/TUNE knob to save the setting.

Press the \bigcirc BACK button to go back to the Tone Settings menu.

Adjusting the EQ (Equalizer)

- 1. Press the TONE button.
- 2. Turn the MENU/TUNE knob to EQ.
- 3. Press the MENU/TUNE knob.

Turn the MENU/TUNE knob to select one of the following, then press the MENU/TUNE knob to select it.

- OFF
- Pop
- Rock
- Classical

- Talk
- Country

Press the 🗘 BACK button to go back to the Tone Settings menu.

System Settings

Configuring the Number of Favorite Pages

Up to six favorite pages can be saved, and each page can store up to six radio stations.

To configure the number of available favorite pages:

- 1. Press the CONFIG button.
- Select Radio Settings.
- 3. Select Radio Favorites.
- 4. Select the number of available favorite pages to display.
- Press the ♀ BACK button to go back to the System Configuration menu.

Auto Volume

This feature automatically adjusts the radio volume to compensate for road and wind noise.

The level of volume compensation can be selected, or the feature can be turned off.

- 1. Press the CONFIG button.
- 2. Select Radio Settings.
- 3. Select Auto Volume.
- 4. Select the setting.
- Press the ♀ BACK button to go back to the System Configuration menu.

Radio Controls with Touchscreen

The infotainment system is operated by using the pushbuttons, menus shown on the display, and steering wheel controls.

Turning the System On or Off

(Power): Press and hold to turn the radio on and off.

Automatic Switch-Off

If the infotainment system has been turned on after the ignition is turned off, the system will turn off automatically after 10 minutes.

Volume Control

V VOL ∧ (Volume): Press to increase or decrease the volume or press the volume bar.

 \bowtie (Mute): Press \vee VOL \wedge , then press \bowtie to mute and unmute the system.

System Settings

Auto Volume

This feature automatically adjusts the radio volume to compensate for road and wind noise.

The level of volume compensation can be selected, or the feature can be turned off.

- Press ¹√
- Select Settings.
- 3. Select Radio Settings.

- 4. Select Auto Volume.
- 5. Select the setting by pressing < or >.
- 6. Press the screen button to go back to the System Configuration menu.

Auto Store (AS)

This feature automatically stores the stations with the strongest reception.

To store or update the stations, press and hold the AS screen button.

To listen to a auto stored station:

- Select AM or FM.
- 2. Press the AS screen button.
- Press

 or
 repeatedly to select the desired AS page.
- 4. Press the desired preset station screen button.

Audio Settings

The audio settings can be set for each radio band and each audio player source.

Tone Settings: Press menu, then tone settings from the AM or FM menu.

- EQ (Equalizer): Press

 or

 to select a sound style or turn off the sound style. When in tone settings, Manual and Talk may be the only settings available depending on the sound system.
- Bass, Mid (Midrange), or Treble: Press – or + to change the desired sound style from –12 to +12.
- Fader or Balance: Adjust the front/rear or left/right speakers by dragging the dot in the vehicle image on the screen.
- Reset: Restore the settings back to default settings.

Press OK to exit Tone Settings.

Radio

AM-FM Radio

Playing the Radio without Touchscreen

Audio Source Menu

O /VOL (Power/Volume): Press to turn the system on and off. Turn to increase or decrease the volume.

MENU/TUNE: Turn to change the radio station.

RADIO/BAND: Press to select AM and FM.

INFO: Press to display additional information that may be available for the current song.

FAV 123: Press to open the favorites list and select a favorite page.

Preset Buttons 1–6: Press to select preset stations.

Radio Broadcast Data System (RBDS)

RBDS is a service by FM stations that makes it easier to find radio stations with fault-free reception.

RBDS stations are indicated by the program name instead of the broadcasting frequency.

View RBDS Broadcast Information

MI RADIO 91.7 POP Stations
MI RADIO Radio is always your favorite
Your favorite is always MI RADIO Radio.

Press the INFO button to view the RBDS broadcasting information that is being received.

Selecting a Band

Press the RADIO/BAND button to choose AM or FM. The last station that was playing starts playing again.

Selecting an Auxiliary Device



Press the AUX button to select a connected auxiliary device.

Selecting a Station

Seek Tuning

If the radio station is not known:

Press ⊠ SEEK or SEEK ⋈ to automatically search for available radio stations.

Press and hold ⊠ SEEK or SEEK ⋈ to change the radio stations as desired, then release to stop at the current station. Press and hold to fast forward or reverse through the currently playing song on an external audio device.

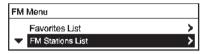
Favorites List



There are two ways to select a station from the Favorites List:

- Continue pressing the FAV 123 button to select the desired favorite preset page.
- From AM or FM, turn the MENU/ TUNE knob to select the Favorites List, then press to select. The Favorites List information will be displayed. Turn the MENU/TUNE knob to move to the desired station from the Favorites List, then press to receive the station.

Stations List



- From AM or FM, turn the MENU/ TUNE knob to select the Stations List, then press to select.
- Turn the MENU/TUNE knob to move to the desired station from the Stations List, then press to receive the station.

Category List



Most stations that broadcast an RDS program type code specify the type of programming transmitted.

Some stations change the program type code depending on the content. The system stores the RDS stations sorted by program type in the FM category list.

To search for a programming type determined by station:

- From FM, turn the MENU/TUNE knob to select FM Category List, then press the MENU/ TUNE knob.
- Turn the MENU/TUNE knob to move to the desired station, then press the MENU TUNE knob to receive the selected broadcasting channel.

Update Stations List



From AM or FM, turn the MENU/ TUNE knob to select the Update AM or FM Stations List, then press the MENU/TUNE knob.

During the AM or FM broadcasting list update, press the MENU/TUNE knob or ♥ BACK button to stop the updates.

Storing a Station as a Favorite

Stations from all bands can be stored in any order in the favorite pages.

Up to six stations can be stored in each favorite page.

Storing Stations

Press the FAV 123 button to select the desired page of saved favorites.

To store the station to a position in the list, press the corresponding preset button 1–6 until a beep is heard.

Playing the Radio with Touchscreen

Audio Source Menu

VVOL ∧ **(Volume)**: Press to increase or decrease the volume.

(Power): Press and hold to turn the system on and off.

(Home Page): Press to enter the Home Page.

RDS (Radio Data System)

If equipped, the RDS feature is available for use only on FM stations that broadcast RDS information. This feature only works when the information from the radio station is available. In rare cases, a radio station could broadcast incorrect information that causes the radio features to work improperly. If this happens, contact the radio station.

While the radio is tuned to an FM-RDS station, the station name or call letters display.

Selecting a Band

Press ຝ, audio, then Source ▼ to choose AM, FM, or SiriusXM[®], if equipped. The last station that was playing starts playing again.

Selecting an Auxiliary Device



Connect the auxiliary device to the AUX input terminal. Play will begin when the system has finished reading the information on the device.

If the storage device is already connected, press ♣, audio, Source ▼, then select AUX from the drop-down menu.

Selecting a Station

Seek Tuning

If the radio station is not known:

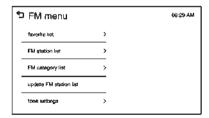
Press **⋘** SEEK **™** to automatically search for available radio stations.

Hold and drag to the left or right of the radio station to automatically search for available radio stations.

Manual Tuning

Continue pressing ◀ TUNE ▶ to manually change the radio station.

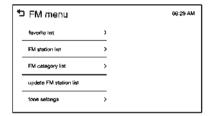
Favorite List



• From the AM or FM menu, press favorite list on the screen.

 Press ▲ or ▼ to scroll through the list. Press on the station to select it.

Station List

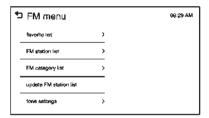


- From the AM or FM menu, press AM or FM station list on the screen.
- Press ▲ or ▼ to scroll through the list. Press on the station to select it.

Category List

- From the FM menu, press FM category list on the screen.
- Press ▲ or ▼ to scroll through the list. Press on the station to select it.

Update Station List



- From the AM or FM menu, press update AM or FM station list on the screen. The broadcasting list updating will begin.
- During the AM or FM broadcasting list update, press Cancel to stop the updates.

Storing a Station as a Favorite

Stations from all bands can be stored in any order in the favorite pages.

Up to five stations can be stored in each of the seven favorites pages.

Storing Stations

To store the station to a position in the list, press the corresponding button 1–5 until a beep is heard.

- 1. Select the desired station.
- Press ≤ or > to select the desired page of saved favorites.



 Hold down any of the preset buttons to save the current radio station to that button of the selected favorites page.

To change a preset button, tune to the new desired radio station and hold the button.

Satellite Radio

Vehicles with a SiriusXM[®] Satellite Radio tuner and a valid SiriusXM Satellite subscription can receive SiriusXM programming.

SiriusXM Satellite Radio Service

SiriusXM is a satellite radio service based in the 48 contiguous United States and 10 Canadian provinces. SiriusXM Satellite Radio has a wide variety of programming and commercial-free music, coast to coast, and in digital-quality sound. A service fee is required to receive the SiriusXM service. For more information, contact SiriusXM at www.siriusxm.com or 1-866-635-2349 (U.S.), and www.xmradio.ca or 1-877-209-0079 (Canada).

Listening to SiriusXM Radio

- 1. Press ŵ.
- 2. Press audio.

- 3. Press Source ▼.
- From the drop-down menu, press XM and the most recent listened to SiriusXM channel will display.

Press to return to the HOME menu.

Selecting a Category

Continue pressing ◀ Category ▶ and the previous or next category will be selected.

Selecting a Channel

Press ◀ Channel ▶ and the previous or next channel will be selected within the same category.

Press and hold ◀ Channel ▶ to jump four channels backward or forward in the same category, then release the button at the desired channel.

Using the Preset Buttons



Up to seven favorites pages can be saved, and each page can store up to five channels.

To change a preset button, tune to the new desired channel and hold the button.

Listening to Preset Channels

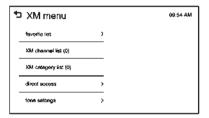
- Continue pressing

 or

 to select the desired favorites page.
- 2. Press the preset button to listen to the channel saved to that button.

Using the SiriusXM Menu Operation

Press MENU on the XM radio screen.



- Press the menu to select the desired item or to display the detail menu item.
- 3. Press to return to the previous menu.

Favorite List

 Press favorite list from the XM menu. The favorite list information is displayed. Press ▲ or ▼ to find the desired station. Tune to the station by selecting it.

Channel List

- Press XM channel list from the XM menu. The channel list is displayed.
- Press ▲ or ▼ to find the desired channel. Tune to the channel by selecting it.

Category List

- Press XM category list from the XM menu. The category list is displayed.
- Press ▲ or ▼ to find the desired category. Tune to the category by selecting it.

Direct Access

- Press direct access from the XM menu. The direct access screen is displayed.
- 2. Press the channel number to tune to the desired channel.

3. Press OK.

Tone Settings

From the tone settings menu, the sound features can be set up for SiriusXM audio and each audio player's functions.

- Press tone settings from the XM menu. The tone settings screen is displayed. See "Tone Settings" under Operation on page 7-8.
- 2. Press OK.

Radio Reception

Frequency interference and static can occur during normal radio reception if items such as mobile phone chargers, vehicle convenience accessories, and external electronic devices are plugged into the accessory power outlet. If there is interference or static, unplug the item from the accessory power outlet.

FΜ

FM signals only reach about 16 to 65 km (10 to 40 mi). Although the radio has a built-in electronic circuit that automatically works to reduce interference, some static can occur, especially around tall buildings or hills, causing the sound to fade in and out.

AM

The range for most AM stations is greater than for FM, especially at night. The longer range can cause station frequencies to interfere with each other. Static can occur when things like storms and power lines interfere with radio reception. When this happens, try reducing the treble on the radio.

SiriusXM Satellite Radio Service gives digital radio reception from coast to coast in the 48 contiguous United States, and in Canada. Just as with FM, tall buildings or hills can interfere with satellite radio signals, causing the sound to fade in and out. In addition, traveling or standing under heavy foliage, bridges, garages, or tunnels may cause loss of the SiriusXM signal for a period of time.

Cellular Phone Usage

Cellular phone usage can cause interference with the vehicle's radio.

Fixed Mast Antenna

The AM-FM antenna is located on the roof of the vehicle.

Driving through an automatic car wash without removing the antenna could damage it.

To remove the antenna, turn it counterclockwise. To replace the antenna, turn it clockwise until hand tightened.

Multi-Band Antenna

If equipped, the multi-band antenna is on the roof of the vehicle. The antenna is used for the AM-FM radio, OnStar, the SiriusXM Satellite Radio Service System, and GPS (Global Positioning System), if the vehicle has these features. Keep the antenna clear of obstructions for clear reception.

Audio Players

CD Player

The vehicle may have a CD player.

The CD player can play audio CDs and MP3 CDs.

The CD player will not play 8 cm (3 in) CDs.

Care of CDs

Sound quality can be reduced due to disc quality, recording method, quality of the music recorded, and how the disc has been handled. Handle discs carefully and store them in their original cases or other protective cases away from direct sunlight and dust. If the bottom surface of a disc is damaged, the disc may not play properly or at all. Do not touch the bottom surface of a disc while handling it; this could damage the surface. Pick up discs by grasping the outer edges or the edge of the hole and the outer edge.

If the bottom surface of a disc is dirty, take a soft, lint-free cloth, or dampen a clean, soft cloth in a mild neutral detergent solution mixed with water, and clean it. Wipe the disc from the center to the outer edge.

Care of the CD Player

Do not add a label to a disc, as it could get caught in the CD player. If a label is needed, label the top of the recorded disc with a marking pen.

Do not use disc lens cleaners because they could contaminate the lens of the disc optics and damage the CD player.

⚠ Caution

If a label is added to a CD, more than one CD is inserted into the slot at a time, or an attempt is made to play scratched or damaged CDs, the CD player

(Continued)

Caution (Continued)

could be damaged. While using the CD player, use only CDs in good condition without any label, load one CD at a time, and keep the CD player and the loading slot free of foreign materials, liquids, and debris.

Control Buttons

The buttons used to control the CD player are:

AUX or CD/AUX: Press to use the CD player.

SEEK ▷ or ▷ **SEEK**: Press to select tracks or to fast forward or rewind within a track.

INFO: Press to display additional information about the current track that may be available.

MENU/TUNE: Turn to select tracks. Turn to enter the menu. Press to select the menu.

△ (Eject): Press to eject the disc.

Inserting a CD

With the printed side facing up, insert a disc into the CD slot until it is drawn in.

Removing a CD

Press \triangle .

The disc is pushed out of the CD slot.

If the disc is not removed after it is ejected, it is pulled back in after a few seconds.

Playing a CD or MP3 CD

Press the AUX or CD/AUX button. If there is a disc in the player, it begins playing.

Information about the disc and current track is shown on the display depending on the data stored.

Selecting a CD Track

Using the control buttons:

- Press SEEK ⋈ or ⋈ SEEK to select the next or previous track.
- Turn the MENU/TUNE knob.

Using the CD Menu:

- 1. Turn the MENU/TUNE knob.
- 2. Select Tracks List.
- 3. Select the track.

Playing Tracks in Random Order

Turn the MENU/TUNE knob and set Shuffle Songs to On.

Fast Forward and Rewind

Press and hold SEEK \bowtie or \bowtie SEEK to fast forward or rewind within the current track.

Selecting an MP3 Track

Using the control buttons:

- Press SEEK ⋈ or ⋈ SEEK to select the next or previous track.
- Turn the MENU/TUNE knob.

Using the CD Menu:

- 1. Turn the MENU/TUNE knob.
- 2. Select Playlists/Folders.
- 3. Select the playlist or folder.
- 4. Select the track.

Searching for MP3 Tracks

The search feature may take some time to display the information after reading the disc due to the amount of information stored on the disc. FM automatically plays while the disc is being read.

Tracks can be searched by:

- Playlists
- Artists
- Albums
- Song Titles
- Genres
- Folder View

To search for tracks:

- 1. Turn the MENU/TUNE knob.
- 2. Select Search.

- Select: Playlists, Artists, Albums, Song Titles, Genres, or Folder View.
- 4. Select the track.

USB Port

The USB port is in the storage area to the right of the infotainment system. See Overview (Radio with Touchscreen) on page 7-7 or Overview (AM-FM Radio) on page 7-3 or Overview (Radio with CD/USB) on page 7-5.

Portable devices are controlled by using the menu system described in *Operation on page 7-8*.

Radio without Touchscreen

If equipped with a USB port, the following devices may be connected and controlled by the infotainment system:

- Pods
- PlaysForSure Devices (PFDs)
- USB Drives

Zunes[®]

Not all iPods, PFDs, USB Drives, and Zunes are compatible with the infotainment system.

Connecting and Controlling an iPod®

Not all iPods can be controlled by the infotainment system.

Connecting an iPod

Connect the iPod to the USB port.

Searching for a Track

Tracks can be searched for by:

- Playlists
- Artists
- Albums
- Song Titles
- Podcasts
- Genres
- Audiobooks
- Composers

To search for tracks:

- 1. Turn the MENU/TUNE knob.
- 2. Select Search.
- 3. Select: Playlists, Artists, Albums, Song Titles, Podcasts, Genres, Audiobooks, or Composers.
- 4. Select the track.

Shuffle

Turn the MENU/TUNE knob and set Shuffle Songs (Random) to On or Off, then press the ♀ BACK button to return to the main screen.

On: Plays tracks in the current folder in random order.

Off: Plays tracks in the current folder in sequential order.

Repeat

Turn the MENU/TUNE knob and set Repeat to On or Off, then press the

⇔ BACK button to return to the main screen.

On: Repeats the current track.

Off: Playback starts from the beginning of the current track after the last track finishes.

Connecting and Controlling a PlaysForSure Device (PFD) or Zune

Connecting a PFD or Zune

Connect the PFD or Zune to the USB port.

Searching for a Track

Tracks can be searched for by:

- Playlists
- Artists
- Albums
- Song Titles
- Podcasts
- Genres

To search for tracks:

- 1. Turn the MENU/TUNE knob.
- 2. Select Search.

- Select: Playlists, Artists, Albums, Song Titles, Podcasts, or Genres.
- 4. Select the track.

Shuffle Functionality

Turn the MENU/TUNE knob and set Shuffle Songs (Random) to On or Off.

On: Plays current tracks in random order.

Off: Plays current tracks in sequential order.

Repeat Functionality

Turn the MENU/TUNE knob and set Repeat to On or Off.

Repeat On: Repeats the current track.

Repeat Off: Playback starts from the beginning of the current track after the last track finishes.

Connecting and Controlling a USB Drive

The infotainment system can only play back .mp3 and .wma files from a USB drive.

Only the first 2,500 songs are recognized on the device.

When a device is not supported, the message "No supported data found. You can safely disconnect the device" appears.

Connecting a USB Drive

Connect the USB drive to the USB port.

Searching for a Track

It is normal for the search feature to take some time to display the information after reading the device due to the amount of information stored.

Files that do not have any meta data stored in the ID3 tag display as Unknown.

Tracks can be searched for by:

- Playlists*
- Artists
- Albums
- Song Titles
- Genres
- Folder View

*This only displays if a playlist is found on the device.

To search for tracks:

- 1. Turn the MENU/TUNE knob.
- 2. Select Search.
- Select: Playlists, Artists, Albums, Song Titles, Genres, or Folder View.
- 4. Select the track.

Shuffle Functionality

Turn the MENU/TUNE knob and set Shuffle Songs (Random) to On or Off.

On: Plays current tracks in random order.

Off: Plays current tracks in sequential order.

Repeat Functionality

Turn the MENU/TUNE knob and set Repeat to On or Off.

Repeat On: Repeats the current track.

Repeat Off: Playback starts from the beginning of the current track after the last track finishes.

Radio with Touchscreen

The infotainment system can play music or movies by connecting an auxiliary device to the USB port.

USB Support

USB Supported Devices

- USB Flash Drives
- Portable USB Hard Drives
- 2G-5G iPod nano[®]
- 1G-3G iPod touch[®]
- 120GB/160GB iPod classic[®]
- 3G/3GS/4/4S iPhone[®]

Not all iPods and USB drives are compatible with the USB port.

Make sure the iPod has the latest firmware from Apple® for proper operation. iPod firmware can be updated using the latest iTunes® application. See www.apple.com/itunes.

For help with identifying your iPod, go to www.apple.com/support.

The USB port can play both lower and upper case .mp3, .wma, .ogg, and .wav files stored on a USB storage device.

USB Supported File and Folder Structure

The Infotainment system supports:

- Up to 2,500 folders.
- Up to 10 folders in depth.
- Up to 2,500 music files.
- Up to 2,500 photo files.
- · Up to 250 movie files.
- ID3 Tag (versions 1.0/1.1/2.2/ 2.3/2.4).

- FAT16.
- FAT32.
- exFAT.

Connecting a USB Storage Device or iPod/iPhone

To connect a USB storage device, connect the device to the USB port.

To connect an iPod/iPhone, connect one end of the device's cable to the iPod/iPhone and the other end to the USB port.

The iPod/iPhone charges while it is connected to the vehicle if the vehicle is in the ACC/ACCESSORY or ON/RUN position. When the vehicle is turned off, the iPod/ iPhone automatically powers off and will not charge or draw power from the vehicle's battery.

For more information on USB usage, see "Audio System" in Pictures and Movies (Audio System) on page 7-51 or Pictures and Movies (Picture System) on page 7-57 or Pictures and Movies (Movie System) on page 7-57.

Auxiliary Devices

The 3.5 mm (1/8 in) AUX input jack, if equipped, is on the front of the infotainment system. See Overview (Radio with Touchscreen) on page 7-7 or Overview (AM-FM Radio) on page 7-3 or Overview (Radio with CD/USB) on page 7-5.

Portable devices are controlled by using the menu system described in *Operation on page 7-8*.

Radio without Touchscreen

Connect a 3.5 mm (1/8 in) cable to the auxiliary input jack to use a portable audio player.

The infotainment system will automatically switch to the device when the device is connected to the AUX input jack. Press the CD/AUX button to switch to a device that is already connected.

Playback of an audio device that is connected to the 3.5 mm (1/8 in) jack can only be controlled using the controls on the device.

Adjusting the Volume

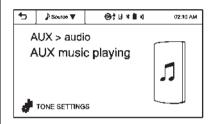
Turn the \circlearrowleft NOL knob to adjust the volume of the infotainment system after the volume level has been set on the portable audio device.

Radio with Touchscreen

The infotainment system can play music or movies connected by the auxiliary device.

Play will begin when the system has finished reading the information on the device.

Playing Music



To play the music from the device, if the device is already connected:

- 1. Press ¹€.
- 2. Press audio.
- 3. Press Source ▼.
- 4. Press AUX/USB.

To adjust the tone settings, see "Tone Settings" under "Radio Controls with Touchscreen" in Operation on page 7-8.

Playing Movies

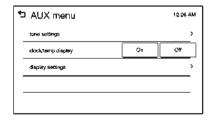
Movies are not available while driving.

If the USB storage device is already connected:

- 1. Press ₩.
- 2. Press picture and movie.
- 3. Press Source ▼.
- 4. Press USB (Movie).

For iPod/iPhone, connect the iPod/iPhone to the AUX input terminal by using the AUX cable for iPod/iPhone to play movie files.

Using the AUX Movie Menu



- Press MENU from the AUX movie screen. The AUX menu is displayed.
- 2. Press the desired menu.
 - tone settings: Adjust the sound setup. See "Tone Settings" under "Radio Controls with Touchscreen" in Operation on page 7-8.
 - clock/temp display: To display the clock and temperature on the full screen, select On or Off.
 - display settings: Adjust the brightness and contrast of the screen.
- 3. Press 🖜

Bluetooth Audio

Streaming Audio

If equipped, music may be played from a paired Bluetooth. See Bluetooth (Voice Recognition) on page 7-36 or Bluetooth (Infotainment Controls) on page 7-27 or Bluetooth (Overview) on page 7-26 for help pairing a device.

The music can be controlled by controls on the device.

To play music via Bluetooth:

- Power on the device, pair, and connect the device. The device will display "GM Audio Source."
- 2. Once paired, press CD/AUX to select Bluetooth Audio.
- 3. Press the play button on the device to begin playback.

When selecting Bluetooth audio, the radio may not be able to launch the audio player on the connected device to start playing. When the vehicle is not moving, choose the phone to begin playback.

All devices launch audio differently. When selecting Bluetooth audio as a source, the radio may show as paused on the screen. Press play on the device to begin playback.

Some phones support sending Bluetooth music information to display on the radio. When the radio receives this information, it will check to see if any album art is available and display it. For more information about your phone and supported Bluetooth features, see www.gm.com/bluetooth.

Phone

Bluetooth (Overview)

For vehicles equipped with Bluetooth capability, the system can interact with many cell phones, allowing:

- Placement and receipt of calls in a hands-free mode.
- Sharing of the cell phone's address book or contact list with the vehicle.

To minimize driver distraction, before driving, and with the vehicle parked:

- Become familiar with the features of the cell phone.
 Organize the phone book and contact lists clearly and delete duplicate or rarely used entries.
 If possible, program speed dial or other shortcuts.
- Review the controls and operation of the infotainment system.

- Pair cell phone(s) to the vehicle.
 The system may not work with all cell phones. See "Pairing" in this section.
- If the cell phone has voice dialing capability, learn to use that feature to access the address book or contact list. See "Voice Pass-Thru" in this section.
- See "Storing and Deleting Phone Numbers" in this section.

⚠ Warning

When using a cell phone, it can be distracting to look too long or too often at the screen of the phone or the infotainment system. 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.

Vehicles with a Bluetooth system can use a Bluetooth-capable cell phone with a Hands-Free Profile to

make and receive phone calls. The infotainment system and voice recognition are used to control the system. The system can be used while in ON/RUN or ACC/ACCESSORY. The range of the Bluetooth system can be up to 9.1 m (30 ft). Not all phones support all functions and not all phones work with the Bluetooth system. See www.gm.com/bluetooth for more information about compatible phones.

Bluetooth Controls

Use the buttons located on the infotainment system and the steering wheel to operate the Bluetooth system.

Steering Wheel Controls

Press to Talk): Press to answer incoming calls, confirm system information, and start voice recognition.

Infotainment System Controls

If equipped, the infotainment system allows certain controls to be selected on the infotainment display.

For information about how to navigate the menu system using the infotainment controls, see *Operation on page 7-8*.

L / ⋈ (Phone): Press to enter the Phone main menu.

Voice Recognition

The voice recognition system uses commands to control the system and dial phone numbers.

Noise: The system may not recognize voice commands if there is too much background noise. Do not point the center air vents directly upward.

When to Speak: A tone sounds to indicate that the system is ready for a voice command. Wait for the tone and then speak.

How to Speak: Speak clearly in a calm and natural voice.

Audio System

When using the Bluetooth system, sound comes through the vehicle's front audio system speakers and overrides the audio system. Use the \circlearrowleft /VOL knob during a call to change the volume level. The adjusted volume level remains in memory for later calls. The system maintains a minimum volume level.

Other Information

The Bluetooth® word mark and logos are owned by the Bluetooth® SIG, Inc. and any use of such marks by General Motors is under license. Other trademarks and trade names are those of their respective owners.

See Radio Frequency Statement on page 13-11.

Bluetooth (Infotainment Controls)

For information about how to navigate the menu system using the infotainment controls, see *Operation on page 7-8*.

Pairing without Touchscreen

A Bluetooth-enabled cell phone must be paired to the Bluetooth system and then connected to the vehicle before it can be used. See vour cell phone manufacturer's user guide for Bluetooth functions before pairing the cell phone. If a Bluetooth phone is not connected, calls will be made using OnStar Hands-Free Calling, if available, See OnStar (if equipped).

Pairing Information

- A Bluetooth phone with MP3 capability can be paired separately to the vehicle as a phone and an MP3 player at the same time. This requires the device to be paired two times; once as a "hands-free" device and once as an MP3 device.
- Up to five cell phones can be paired to the Bluetooth system.
- The pairing process is disabled when the vehicle is moving.

- Pairing only needs to be completed once, unless the pairing information on the cell phone changes or the cell phone is deleted from the system.
- Only one paired cell phone can be connected to the Bluetooth system at a time.
- If multiple paired cell phones are within range of the system, the system connects to the first available paired cell phone in the order that they were first paired to the system. To link to a different paired phone, see "Linking to a Different Phone" later in this section.

Pairing a Phone as a Hands-Free Device

- Press the CONFIG button.
- 2. Select Phone Settings or Bluetooth Settings.
- Select Bluetooth.

- 4 Select Pair Device (Hands-Free). A four-digit Personal Identification Number (PIN) appears on the display. The PIN is used is Step 6.
- Start the pairing process on the cell phone to be paired to the vehicle. See the cell phone manufacturer's user guide for information on this process.
- 6. Locate the device named "Your Vehicle" in the list on the cell phone. Follow the instructions on the cell phone to enter the PIN provided in Step 4. After the PIN is successfully entered, the system prompts you to provide a name for the paired cell phone. This name will be used to indicate which phones are paired and connected to the vehicle. The system responds with "<Phone name> has been successfully paired" after the pairing process is complete.
- 7. Repeat Steps 1-6 to pair additional phones.

Listing All Paired and Connected Phones

- 1. Press the CONFIG button.
- 2. Select Phone Settings or Bluetooth Settings.
- 3. Select Bluetooth.
- 4. Select Device List.

Deleting a Paired Phone

- 1. Press the CONFIG button.
- 2. Select Phone Settings or Bluetooth Settings.
- 3. Select Bluetooth.
- 4. Select Device List.
- 5. Select the phone to delete and follow the on-screen prompts.

Linking to a Different Phone

To link to a different phone, the new phone must be in the vehicle and available to be connected to the Bluetooth system before the process is started.

1. Press the CONFIG button.

- 2. Select Phone Settings or Bluetooth Settings.
- 3. Select Bluetooth.
- 4. Select Device List.
- Select the new phone to link to and follow the on-screen prompts.

If delete is selected, the highlighted phone will be deleted.

Making a Call Using Phone Book

For cell phones that support the phone book feature, the Bluetooth system can use the contacts stored on your cell phone to make calls. See your cell phone's owner's guide or contact your wireless provider to find out if this feature is supported by your phone.

When a cell phone supports the phone book feature, the Phone Book and Call Lists menus are automatically available.

The Phone Book menu allows you to access the phone book stored in the cell phone to make a call.

The Call Lists menu allows you to access the phone numbers from the Incoming Calls, Outgoing Calls, and Missed Calls menus on your cell phone to make a call.

To make a call using the Phone Book menu:

- Press \(/ ⋈ \) once or twice (depending on the radio).
- 2. Select Phone Book.
- Search through the list by selecting the letter group the phone book entry begins with, or press the MENU/TUNE button to scroll through the entire list of names/numbers in the phone book.
- 4. Select the name or number you want to call.

To make a call using the Call Lists menu:

- Press \(/ ⋈ \) once or twice (depending on the radio).
- 2. Select Call Lists.
- Select the Incoming Calls, Outgoing Calls, or Missed Calls list.
- 4. Select the name or number you want to call.

Making a Call

To make a call:

- Press ► / ⋈ once or twice (depending on the radio).
- 2. Enter the character sequence.
- 3. Select Call to start dialing the number.

Accepting or Declining a Call

When an incoming call is received, the infotainment system mutes and a ring tone is heard in the vehicle.

Accepting a Call

Turn the MENU/TUNE knob to "Answer" and press the MENU/TUNE knob to accept the call.

Declining a Call

Turn the MENU/TUNE knob to "Decline" and press the MENU/TUNE knob to decline the call.

Call Waiting

Call waiting must be supported on the Bluetooth phone and enabled by the wireless service carrier to work.

Accepting a Call

Turn the MENU/TUNE knob to "Answer" and press the MENU/ TUNE knob to accept the call.

Declining a Call

Turn the MENU/TUNE knob to "Decline" and press the MENU/TUNE knob to decline the call.

Switching Between Calls (Call Waiting Calls Only)

To switch between calls:

- Turn or press the MENU/ TUNE knob.
- 2. Select Switch Call from the menu.

Conference Calling

Conference calling and three-way calling must be supported on the Bluetooth phone and enabled by the wireless service carrier to work.

To start a conference while in a current call:

- Turn or press the MENU/ TUNE knob.
- 2. Select Enter Number.
- 3. Enter the character sequence then select Call.
- After the call has been placed, turn or press the MENU/TUNE knob and choose Merge Calls.

 To add more callers to the conference call, repeat Steps 1–4. The number of callers that can be added is limited by your wireless service carrier.

Ending a Call

Turn or press the MENU/TUNE knob and select Hang Up.

Muting a Call

To Mute a Call

Turn or press the MENU/TUNE knob and select Mute Call.

To Cancel Mute

Turn or press the MENU/TUNE knob and select Mute Call.

Dual Tone Multi-Frequency (DTMF) Tones

The in-vehicle Bluetooth system can send numbers during a call. This is used when calling a menu-driven phone system.

 Turn or press the MENU/TUNE knob and select Enter Number. 2. Enter the character sequence.

Pairing with Touchscreen

A Bluetooth-enabled cell phone must be paired to the Bluetooth system and then connected to the vehicle before it can be used. See your cell phone manufacturer's user guide for Bluetooth functions before pairing the cell phone. If a Bluetooth phone is not connected, calls will be made using OnStar Hands-Free Calling, if available. See OnStar (if equipped).

Pairing Information

- A Bluetooth phone with MP3 capability cannot be paired to the vehicle as a phone and an MP3 player at the same time.
- Up to five cell phones can be paired to the Bluetooth system.
- The pairing process is disabled when the vehicle is moving.

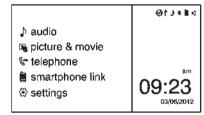
- Pairing only needs to be completed once, unless the pairing information on the cell phone changes or the cell phone is deleted from the system.
- Only one paired cell phone can be connected to the Bluetooth system at a time.
- If multiple paired cell phones are within range of the system, the system connects to the first available paired cell phone in the order that they were first paired to the system. To link to a different paired phone, see "Linking to a Different Phone" later in this section.

When the Bluetooth device and infotainment system are successfully paired, the phone book is downloaded automatically. However, the phone book may not be downloaded automatically according to the type of the phone. In this case, proceed with the phonebook download on phone.

Pairing a Phone

When there is no paired device on the infotainment system and the Simple Secure Pairing (SSP) is supported:

1. Press ₩.



- 2. Press & telephone, then press Yes.
- 3. Press Search Bluetooth Device.
- 4. Press the desired device to pair on the searched list screen.
- Press Yes on the pop-up screen of the Bluetooth device and infotainment system.

 When the Bluetooth device and infotainment system are successfully paired, the telephone screen is displayed on the infotainment system.

Pairing a Phone

When a paired device is on the infotainment system and the SSP is supported:

1. Press ₩.

	Ø₹୬≉ ™ ⊲
♪ audio	
📭 picture & movie	
% telephone	
smartphone link	AO-00
settings	09:23
	03/06/2012

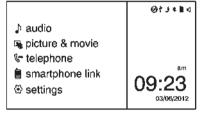
- 2. Press settings.
- 3. Press connection settings.
- 4. Press bluetooth settings.
- 5. Press pair device.
- 6. Press Search Bluetooth Device.

- 7. Press the desired device to pair on the searched list screen.
- Press Yes on the pop-up screen of the Bluetooth device and infotainment system.
- 9. When the Bluetooth device and infotainment system are successfully paired, "The" is displayed on the "pair device" screen.
- The connected phone is highlighted by .
- The "The" indicates the hands-free and phone music function are enabled.
- The & indicates only hands-free function is enabled.
- The indicates only Bluetooth music is enabled.

Pairing a Phone

When there is no paired device on the infotainment system and the SSP is not supported:

1. Press ₩.



- 2. Press telephone, then press Yes.
- 3. Press Search Bluetooth Device.
- 4. Press the desired device to pair on the searched list screen.

 Input the PIN code (default: 1234) to the Bluetooth device. When the Bluetooth device and infotainment system are successfully paired, the telephone screen is displayed on the infotainment system.

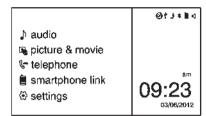
When the connection fails, a failure message is displayed on the infotainment system.

If a Bluetooth device was previously connected, the infotainment system executes the auto connection. However, if the Bluetooth setting on the Bluetooth device is turned off, a failure message is displayed on the infotainment system.

Pairing a Phone

When a paired device is on the infotainment system and the SSP is not supported:

1. Press ₩.



- 2. Press settings.
- 3. Press connection settings.
- 4. Press bluetooth settings.
- 5. Press pair device.
- 6. Press Search Bluetooth Device.
- 7. Press the desired device to pair on the searched list screen.
- 8. Input the PIN code (default: 1234) to the Bluetooth device. When the Bluetooth device and infotainment system are successfully paired, but is displayed on the pair device screen.
- The connected phone is highlighted by .

7-34 Infotainment System

- The " indicates the hands-free and phone music function are enabled.
- The & indicates only hands-free function is enabled.
- The indicates only Bluetooth music is enabled.

Connecting a Bluetooth Device

- 1. Press ∰.
- 2. Select settings.
- 3. Press connection settings.
- 4. Press bluetooth settings.
- 5. Press pair device.
- 6. Press the device to be paired.
- 7. Press OK.

Checking the Bluetooth Connection

- 1. Press ŵ.
- 2. Select settings.
- 3. Press connection settings.
- 4. Press bluetooth settings.

- 5. Press pair device.
- 6. The paired device will show with when connected.

Disconnecting the Bluetooth Device

- 1. Press [△].
- 2. Select settings.
- 3. Press connection settings.
- 4. Press bluetooth settings.
- 5. Press pair device.
- 6. Press the name of the device to be disconnected.
- 7. Press OK.

Deleting a Paired Phone

- 1. Press ₩.
- 2. Select settings.
- 3. Press connection settings.
- 4. Press bluetooth settings.
- 5. Press pair device.
- 6. Press Delete.

7. Press Yes.

Bluetooth Music

Before playing Bluetooth music, read the follow information.

- A cell phone or Bluetooth device that supports Advanced Audio Distribution Profile (A2DP) versions over 1.2 must be registered and connected to the product.
- From the cell phone or Bluetooth device, find the Bluetooth device type to set/connect the item as a stereo headset.
- will appear on the screen if the stereo headset is successfully connected.
- The sound played by the Bluetooth device is delivered through the infotainment system.
- Bluetooth music can be played only when a Bluetooth device has been connected. To play

Bluetooth music, connect the Bluetooth phone to the infotainment system.

- If the Bluetooth device is disconnected while playing phone music, the music is discontinued. The audio streaming function may not be supported in some Bluetooth phones. Only one function can be used at a time between the Bluetooth hands-free or Phone music function. For example, if you convert to the Bluetooth hands-free while playing Phone music, the music is discontinued. Playing music from the car is not possible when there are no music files stored in the cell phone.
- For Bluetooth music to play, the music must be played at least once from the music player mode of the cell phone or Bluetooth device after connecting as a stereo headset. After being played at least once, the music player will

automatically play upon entering play mode, and it will automatically stop when the music player mode ends. If the cell phone or Bluetooth device is not in the waiting screen mode, some devices may not automatically play in Bluetooth music play mode.

Playing Bluetooth Music

1. Press ¹€.

	Ø∤3* 1 10
♪ audio	
📭 picture & movie	
% telephone	
smartphone link	Am
settings	09:23
_	03/06/2012

- 2. Press audio.
- 3. Press source ▼.
- Press Bluetooth, then select the connected Bluetooth music play mode.

Pause

Press ► II to pause.

Press ► II again to resume.

Skipping the Previous or Next File

Press ◀ or ▶ to select the previous or next file.

Search

Press and hold ★ or ★ to fast forward or rewind.

Playing a File Repeatedly

Press During playback.

- 1: Plays the current file repeatedly.
- ALL: Plays all files repeatedly.
- OFF: Returns to normal playback.

This function may not be supported depending on the cell phone.

Playing a File Randomly

Press during playback.

- NO: Plays all files repeatedly.
- OFF: Returns to normal playback.

This function may not be supported depending on the cell phone.

Do not change the track too quickly when playing Bluetooth music.

Conditions that may occur when playing Bluetooth music:

- It takes some time to transmit data from the cell phone to the infotainment system.
- If the cell phone or Bluetooth device is not in the waiting screen mode, it may not automatically play despite being carried out from the Bluetooth music play mode.
- The infotainment system transmits the order to play from the cell phone in the Bluetooth music play mode. If this is done in a different mode, then the device transmits the order to stop. Depending on the cell

- phone's options, this order to play/stop may take time to activate.
- If the Bluetooth music playback is not functioning, then check to see if the cell phone is in the waiting screen mode.
- Sounds may be cut off during the Bluetooth music playback.
- The infotainment system outputs the audio from the cell phone or Bluetooth device as it is transmitted.

Bluetooth (Voice Recognition)

Using Voice Recognition

To use voice recognition, press / / ½ on the steering wheel. Use the commands below for the various voice features. For additional information, say "Help" while you are in a voice recognition menu.

Pairing

A Bluetooth-enabled cell phone must be paired to the Bluetooth system and then connected to the vehicle before it can be used. See your cell phone manufacturer's user guide for Bluetooth functions before pairing the cell phone. If a Bluetooth phone is not connected, calls will be made using OnStar Hands-Free Calling, if available. See OnStar (if equipped).

Pairing Information

- A Bluetooth phone with MP3 capability can be paired to the vehicle as a phone and an MP3 player at the same time.
- Up to five cell phones can be paired to the Bluetooth system.
- The pairing process is disabled when the vehicle is moving.
- Pairing only needs to be completed once, unless the pairing information on the cell phone changes or the cell phone is deleted from the system.

- Only one paired cell phone can be connected to the Bluetooth system at a time.
- If multiple paired cell phones are within range of the system, the system connects to the first available paired cell phone in the order that they were first paired to the system. To link to a different paired phone, see "Connecting to a Different Phone" later in this section.

Pairing a Phone

- Press ℰ / ⋈⁄z. The system responds "Ready," followed by a tone.
- 2. Say "Bluetooth." This command can be skipped.
- Say "Pair." The system responds with instructions and a four-digit Personal Identification Number (PIN). The PIN is used in Step 5.

- Start the pairing process on the cell phone that you want to pair. For help with this process, see your cell phone manufacturer's user guide.
- 5. Locate the device named "Your Vehicle" in the list on the cell phone. Follow the instructions on the cell phone to enter the PIN provided in Step 3. After the PIN is successfully entered, the system prompts you to provide a name for the paired cell phone. This name will be used to indicate which phones are paired and connected to the vehicle. The system responds with "<Phone name> has been successfully paired" after the pairing process is complete.
- Repeat Steps 1–5 to pair additional phones.

Listing All Paired and Connected Phones

The system can list all cell phones paired to it. If a paired cell phone is also connected to the vehicle, the system responds with "is connected" after that phone name.

- 1. Press ℰ / ⋈⁄s. The system responds "Ready," followed by a tone.
- 2. Say "Bluetooth."
- 3. Say "List."

Deleting a Paired Phone

If the phone name you want to delete is unknown, see "Listing All Paired and Connected Phones."

- Press ℰ / ⋈: The system responds "Ready," followed by a tone.
- 2. Say "Bluetooth."
- 3. Say "Delete." The system asks for which phone to delete.
- 4. Say the name of the phone you want to delete.

Connecting to a Different Phone

To connect to a different cell phone, the Bluetooth system looks for the next available cell phone in the order in which all available cell phones were paired. Depending on which cell phone you want to connect to, you may have to use this command several times.

- Press ℰ / Ϳϗ. The system responds "Ready," followed by a tone.
- 2. Say "Bluetooth."
- 3. Say "Change phone."
 - If another cell phone is found, the response will be "<Phone name> is now connected."
 - If another cell phone is not found, the original phone remains connected.

Storing and Deleting Phone Numbers

The system can store up to 30 phone numbers as name tags in the Hands-Free Directory that is shared between the OnStar (if equipped) and Bluetooth systems.

The following commands are used to delete and store phone numbers.

Store: This command will store a phone number, or a group of numbers as a name tag.

Digit Store: This command allows a phone number to be stored as a name tag by entering the digits one at a time.

Delete: This command is used to delete individual name tags.

Delete All Name Tags: This command deletes all stored name tags in the Hands-Free Calling Directory and the Destinations Directory.

Using the "Store" Command

- Press ℰ / ⋈⁄c. The system responds "Ready," followed by a tone.
- 2. Say "Store."
- Say the phone number or group of numbers you want to store all at once with no pauses, then follow the directions given by the system to save a name tag for this number.

Using the "Digit Store" Command

If an unwanted number is recognized by the system, say "Clear" at any time to clear the last number.

To hear all of the numbers recognized by the system, say "Verify" at any time.

- Press ℰ / ⋈⁄s. The system responds "Ready," followed by a tone.
- 2. Say "Digit Store."

3. Say each digit, one at a time, that you want to store. After each digit is entered, the system repeats back the digit it heard followed by a tone. After the last digit has been entered, say "Store," and then follow the directions given by the system to save a name tag for this number.

Using the "Delete" Command (If Equipped)

- Press ℰ / ⋈: The system responds "Ready," followed by a tone.
- 2. Say "Delete."
- 3. Say the name tag you want to delete.

Using the "Delete All Name Tags" Command

This command deletes all stored name tags in the Hands-Free Calling Directory and the Destinations Directory.

To delete all name tags:

- Press ℰ / ⋈: The system responds "Ready," followed by a tone.
- 2. Say "Delete all name tags."

Listing Stored Numbers

The list command will list all stored numbers and name tags.

Using the "List" Command

- 1. Press ℰ / ⋈⁄s. The system responds "Ready," followed by a tone.
- 2. Say "Directory."
- 3. Say "Hands-Free Calling."
- 4. Say "List."

Making a Call

Calls can be made using the following commands.

Dial or Call: The dial or call command can be used interchangeably to dial a phone number or a stored name tag.

Digit Dial: This command allows a phone number to be dialed by entering the digits one at a time.

Re-dial: This command is used to dial the last number used on the cell phone.

Using the "Dial" or "Call" Command

- Press ℰ / ⋈⁄s. The system responds "Ready," followed by a tone.
- 2. Say "Dial" or "Call."
- 3. Say the entire number without pausing or say the name tag.

Once connected, the person called will be heard through the audio speakers.

Calling 911 Emergency Number for U.S. and Canada (If Equipped)

- 1. Press ℰ / ⋈⁄s. The system responds "Ready," followed by a tone.
- 2. Say "Dial" or "Call."

- 3. Say "911."
- 4. Say "Dial" or "Call."

Calling 066 Emergency Number for Mexico Only (If Equipped)

- Press ℰ / ⋈: The system responds "Ready," followed by a tone.
- 2. Say "Dial" or "Call."
- 3. Say "066."
- 4. Say "Dial" or "Call."

Using the "Digit Dial" Command

The digit dial command allows a phone number to be dialed by entering the digits one at a time. After each digit is entered, the system repeats back the digit it heard followed by a tone.

If an unwanted number is recognized by the system, say "Clear" at any time to clear the last number.

To hear all of the numbers recognized by the system, say "Verify" at any time.

- Press ℰ / ⋈⁄s. The system responds "Ready," followed by a tone.
- 2. Say "Digit Dial."
- Say each digit, one at a time, that you want to dial. After each digit is entered, the system repeats back the digit it heard followed by a tone. After the last digit has been entered, say "Dial."

Once connected, the person called will be heard through the audio speakers.

Using the "Re-dial" Command

- Press ℰ / ⋈⁄s. The system responds "Ready," followed by a tone.
- After the tone, say "Re-dial." The system dials the last number called from the connected cell phone.

Once connected, the person called will be heard through the audio speakers.

Receiving a Call

When an incoming call is received, the audio system mutes and a ring tone is heard in the vehicle.

- Press \mathscr{C} / \mathbb{R}^{c} to answer the call.

Call Waiting

Call waiting must be supported on the cell phone and enabled by the wireless service carrier.

- Press ℰ / ⋈⁄s to answer an incoming call when another call is active. The original call is placed on hold.
- Press ℰ / ⋈ again to return to the original call.
- To ignore the incoming call, no action is required.
- Press \(\begin{align*} \begin{align*} \sigma \text{ to disconnect the current call and switch to the call on hold.

Three-Way Calling (If Equipped)

Three-way calling must be supported on the cell phone and enabled by the wireless service carrier.

- 1. While on a call, press € / №.
- 2. Say "Three-way call."
- Use the dial or call command to dial the number of the third party to be called.
- Once the call is connected, press ℰ / ⋈⁄s to link all callers together.

Ending a Call

Press ⋈ / 🐼 to end a call.

Muting a Call

During a call, all sounds from inside the vehicle can be muted so that the person on the other end of the call cannot hear them. To mute a call, press $\mathscr{C} / \mathbb{R}^{C}$, and then say "Mute Call."

To cancel mute, press \mathscr{C} / $\mbox{$\stackrel{\checkmark}{\mathbb{C}}$}$, and then say "Un-mute Call."

Transferring a Call

Audio can be transferred between the Bluetooth system and the cell phone.

The cell phone must be paired and connected with the Bluetooth system before a call can be transferred. The connection process can take up to two minutes after the ignition is turned to ON/RUN.

To Transfer Audio from the Bluetooth System to a Cell Phone

During a call with the audio in the vehicle:

- 1. Press ℰ / ષ્ટે.
- 2. Say "Transfer Call."

To Transfer Audio to the Bluetooth System from a Cell Phone

During a call with the audio on the cell phone, press $\mathscr{C} / \mathscr{A}$. The audio transfers to the vehicle. If the audio does not transfer to the vehicle, use the audio transfer feature on the cell phone. See the cell phone manufacturer's user guide.

Voice Pass-Thru

Voice pass-thru allows access to the voice recognition commands on the cell phone. See the cell phone manufacturer's user guide to see if the cell phone supports this feature.

To access contacts stored in the cell phone:

- 1. Press ℰ / ⋈⁄s. The system responds "Ready," followed by a tone.
- 2. Say "Bluetooth." This command can be skipped.
- 3. Say "Voice." The system responds "OK, accessing <phone name>."

The cell phone's normal prompt messages will go through their cycle according to the phone's operating instructions.

Dual Tone Multi-Frequency (DTMF) Tones (If Equipped)

The Bluetooth system can send numbers and the numbers stored as name tags during a call. You can use this feature when calling a menu-driven phone system.

Account numbers can also be stored for use.

Sending a Number or Name Tag During a Call

- Press ℰ / ⋈: The system responds "Ready," followed by a tone.
- 2. Say "Dial."
- 3. Say the number or name tag to send.

Clearing the System

Unless information is deleted out of the in-vehicle Bluetooth system, it will be retained indefinitely. This includes all saved name tags in the phone book and phone pairing information. For information on how to delete this information, see the previous sections on deleting a paired phone and deleting name tags.

Hands-Free Phone

General Information with Touchscreen



Vehicles with a Hands-Free Phone system can use a Bluetooth-capable cell phone with a hands-free profile to make and receive phone calls. The infotainment system and voice control are used to operate the system. Not all phones support all functions and not all phones work with the Hands-Free Phone system.

Hands-Free Phone Controls

Use the buttons on the infotainment system and the steering wheel to operate the Hands-Free Phone system.

Steering Wheel Controls

Steering wheel controls can be used to:

- Answer incoming calls.
- Confirm system information.
- End a call.
- Decline a call.
- · Cancel an operation.
- Make outgoing calls using the call list.

⋈ / Mute/End Call): Press to end a call, decline a call, or cancel an operation.

Making a Call by Entering a Phone Number



- Enter the phone number using the keypad on the telephone screen.
- 2. Press **** on the screen or *C* / ₩ on the steering wheel controls.

If a wrong number is entered, press to delete the number one digit at a time, or press and hold to delete all digits of the number.

Switching a Call to the Cell Phone (Private Mode)

To switch the call from the cell phone to hands-free:

- 1. Press 🗐 🐧
- 2. Press again to switch back to hands-free.

Turning the Microphone On and Off

Press **½** to turn the microphone on or off.

Calling by Redial

To call by using redial:

- Press ℰ / ⋈ on the steering wheel controls to display the redial guidance screen.
- Press and hold \(\sigma \) on the telephone screen.

Redialing is not possible when there is no call history.

Taking calls

When a phone call comes through the connected Bluetooth cell phone, the playing track will be cut off and the phone will ring with the relevant information displayed.

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Press @ / \subseteq on the steering wheel controls or press Accept on the screen.

To decline the call, press \nearrow / \curvearrowright on the steering wheel controls or press Reject on the screen.

Using the Phone Book Menu

- 1. Press Phone Book on the telephone screen.
- 2. Press ▲ or ▼ to scroll through the list.
- 3. Select the phone book entry to call.
- 4. Press the number to dial.

Searching for Phone Book Entries

- 1. Press Phone Book on the telephone screen.
- 2. Press \mathcal{P} on the phone book screen.
- Use the keypad to input the name to search. For details, refer to the "Searching for a Name" later in this section.

- 4. Select the phone book entry to call.
- 5. Press the number to dial.

When the Bluetooth device and infotainment system are successfully paired, the phone book will download. Some phones may not download automatically. If this happens, connect it again or proceed with the phone book download on the phone.

Always accept the Phone book request on the initial pairing of the phone.

Searching for a Name

Select characters by using the keypad on the phone book screen. As characters are selected, the names that include those characters will display on the phone book screen. As more characters of the name are entered, the list of possible names is shortened.

To search for the name Alex:

- 1. Press (abc) to select the first character.
- 2. Press (jkl) to select the second character.
- 3. Press (def) to select the third character.
- 4. Press (wxy) to select the fourth character.

Making a Call from Call History

- 1. Press Call History on the telephone screen.
- 2. Press one of the following for:
 - Grant Dialed calls.
 - X Missed calls.
 - Received calls.
- 3. Select the phone book entry to call.

Making a Call with Speed Dial Numbers

Press and hold the speed dial number using the keypad on the telephone screen.

Only speed dial numbers already stored on the cell phone can be used for speed dial calls. Up to two-digit speed dial numbers are supported.

For two-digit speed dial numbers, press and hold the second digit to make a call to the speed dial number.

Downloadable Applications

Smartphone Link (Overview)

Before Using Smartphone Link

This function may not be supported in all regions.

If equipped, the vehicle can connect to Pandora[®], Stitcher SmartRadio[®], or other available applications through the infotainment system. The applications must be downloaded to the device first, then the device can be connected to the infotainment system.

Pandora is a free Internet radio service that streams personalized radio stations based on artists, songs, genres, and comedians. Create stations using the Pandora website or smartphone application, then use (thumbs up) or (thumbs down) to personalize stations. To set up an account, or for more information, go to www.pandora.com. Pandora may not be available in Canada or Mexico.

Stitcher SmartRadio is an Internet radio service that streams news, sports, and entertainment shows through the audio system. Create personalized, on-demand stations or discover new shows through Stitcher's preset stations. To set up an account, download the application from the Android Market or iTunes Store, or go to www.stitcher.com.

A phone or tablet with Internet connection and the application installed is required. Personal cell phone data plans are used. Make sure the latest version is installed on the device and the volume is turned up.

Smartphone Supported by Application

To use Applications:

- Connect an iPod/iPhone using the USB port.
- Connect Andriod[™] phones through Bluetooth.

iPod/iPhone Error Messages and Solution

If the system fails to activate the application on the iPod/iPhone connected, an error message is displayed as, "Unable to start application, possible reasons."

- Your iPhone is locked. To resolve, unlock the iPhone.
- You have another active application open. To resolve, close the other active application.
- You have not installed the application on your iPhone. To resolve, install the application on the iPhone.

iOS Version Error

If the iOS version of the iPhone is less than 4.0, the error message is displayed as, "Your iPhone does not allow this application to be opened on a USB connection. Please refer to owner's manual."

 Activate the application on your iPhone, then press the desired application menu on the infotainment system.

Connecting Application Error

If the infotainment system fails to activate the application on the smartphone connected through Bluetooth wireless technology, the error message is displayed as, "Connecting application failed."

- Reset all settings related to the phone, then press the desired application menu on the infotainment system.
- Reconnect the smartphone and infotainment system through Bluetooth wireless technology,

- then press the desired application menu on the infotainment system.
- When the application is stopped on the smartphone, it usually takes time to return to normal operation. Try to activate the application after 10–20 seconds.

To switch to another application while playing an application and connected through the USB port, press the HOME button on the iPod/iPhone, then press the application icon on the infotainment system.

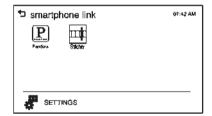
Switching Between a USB Connected Device and a Bluetooth Device

When the iPhone is connected to the infotainment system through the USB port, and the infotainment system is connected to another phone through Bluetooth wireless technology, press iPhone or bluetooth phone on the smartphone list menu to switch between the two applications.

Displaying or Hiding Application Icons

To display or hide application icons on the smartphone link menu:

- 1. Press ₩.
- 2. Press smartphone link.



- 3. Press SETTINGS.
- Press the desired application icon to hide or display it on the smartphone link menu.
- 5. Press OK.

If the activated application is on the smartphone link menu, the is activated in the upper position of the HOME menu or playing screen.

Connecting an Application

This section explains a general operation. It may vary depending on the phone operation system, versions, and/or application versions.

To connect an application:

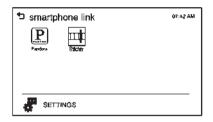
- Install the application on the smartphone from Appstore or Playstore.
- Connect the smartphone to the infotainment system through the USB port or Bluetooth.
 - iPhone: USB port
 - Android phone: Bluetooth
- 3. Activate the application.
- Press to play the application through the infotainment system. The smartphone link menu is displayed.
- 5. Press the application icon.
- 6. The application screen is displayed.

Smartphone Link (Pandora)

Some images and explanations may vary by phone operating systems, versions, and/or application (App) versions.

Using Pandora

- 1. Install the Pandora application on the smartphone.
- Connect the smartphone to the infotainment system through the USB port or Bluetooth wireless technology.
 - iPhone: USB connection.
 - Android phone/BlackBerry phone: Bluetooth wireless technology.
- 3. Activate the Pandora application.
- 4. Press ₩.
- 5. Press smartphone link.



6. Press Pandora.

If the smartphone is not connected to the infotainment system or the application is not installed on the smartphone, the Pandora menu is not activated.

Thumbs Up and Thumbs Down

Rate tracks by using **t** (thumbs up) or **?** (thumbs down).

Pause

- Press II to pause.
- Press ▶ to resume.

Changing Tracks

Press to change to the next track.

Bookmark

To bookmark a favorite artist or track:

- 1. Press \pm on the screen.
- 2. Press Artist or Track.

Pandora Menus

Creating Stations from Currently Playing Music

- Press MENU. The Pandora menu is displayed.
- 2. Press create station.
- 3. Press from currently playing.
- 4. Press Artist or Track.
- Press the desired station. The station is added into the Pandora menu automatically.

Creating Stations by Searching by Artist or Track

- 1. Press MENU. The Pandora menu is displayed.
- 2. Press create station.
- 3. Press enter artist/track. The keypad is displayed.
- Enter the artist or track name using the keypad, then press Create.
- Press the desired station. The station is added into the Pandora menu automatically.

Listening to Stations

- Press MENU. The Pandora menu is displayed.
- Press ▲ or ▼ to scroll through the list. Select the desired station.

QuickMix

Press MENU. The Pandora menu is displayed.

Press QuickMix X to listen to a selection of tracks from your stations.

Tone Settings

- 1. Press MENU. The Pandora menu is displayed.
- Press tone settings. The tone settings menu is displayed. See "Tone Settings" under "Radio Controls with Touchscreen" in Operation on page 7-8.

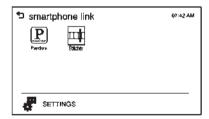
Smartphone Link (Stitcher)

Some images and explanations may vary by phone operating systems, versions, and/or application (App) versions.

Using Stitcher

1. Install the Stitcher application on the smartphone.

- Connect the smartphone to the infotainment system through the USB port or Bluetooth wireless technology.
 - iPhone: USB connection.
 - Android phone/BlackBerry phone: Bluetooth wireless technology.
- 3. Activate the Stitcher application.
- 4. Press [△].
- 5. Press smartphone link.



6. Press Stitcher.

If the smartphone is not connected to the infotainment system or the application is not installed on the smartphone, the Stitcher menu is not activated.

Thumbs Up and Thumbs Down

Rate tracks by using (thumbs up) or (thumbs down).

Pause

- Press II to pause.
- Press to resume.

Changing Stations

Press to change to the next station.

Saving Favorites

To save a station as a favorite, press ★ on the stitcher screen.

Stitcher Menus

The Stitcher Station menu displays available station data from the Stitcher server.

7-50 Infotainment System

- 1. Press MENU. The Stitcher Station menu is displayed.
- Press ▲ or ▼ to scroll through the list. Select the desired station.

Tone Settings

- 1. Press MENU. The Stitcher menu is displayed.
- Press tone settings. The tone settings menu is displayed. See "Tone Settings" under "Radio Controls with Touchscreen" in Operation on page 7-8.

Stitcher usage recommendations:

- Data transference speed must be 3G or greater.
- Make sure the latest version of Stitcher is installed, selecting the correct download depending on the cellular system.
- Turn the phone Off and restart after the download of Stitcher is complete.

- Apple products (iPhone, iPod, iPAD), the iOS must be 4.0 or greater.
- Android products version must be 2.0 or greater.
- If error messages are received from the radio or phone, turn the phone off and remove the battery.
- Avoid switching between Audio Bluetooth and Stitcher sources.
- Launch Stitcher from the radio every time the vehicle is turned on.

Stitcher offers podcast audio based on phone characteristics, meaning the launch of audio would depend on the podcast size and phone connection.

Phone connection factors are:

- Speed and traffic of transmission data.
- Hours on usage.
- Applications stored on the device.
- Available memory of phone.

Bluetooth Phone/ Devices

Pictures and Movies (Audio System)

The infotainment system can play the music files contained in the USB storage device or iPod/iPhone products.

Audio System Information Using MP3/WMA/OGG/WAV Files

- Music files with .mp3, .wma, .ogg, and .wav file name extensions can be played.
- MP3 files that can be played are: Bit rate: 8 kbps to 320 kbps -Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, and 16 kHz.
- Files with a bit rate above 128 kbps will result in higher quality sound.

- ID3 Tag information for MP3 files, such as the album name and the artist, can be played.
- To display album title, track title, and artist information, the file should be compatible with the ID3 Tag V1 and V2 formats.

Using USB Storage Devices and iPod/iPhone

- Use a USB or flash memory type storage device. Do not connect using a USB adaptor.
- Do not connect and reconnect the USB device repeatedly in a short time, as this may cause static electricity and problems using the device.
- Use a USB device with a metal connecting terminal.
- Connection with i-Stick Type USB storage devices may be faulty due to vehicle vibration.
- Do not to touch the USB connecting terminal.

- Only USB storage devices formatted in FAT16/32, exFAT file system are recognized. NTFS and other file systems are not recognized.
- The time it takes to process files will depend on the USB storage device type and capacity, and the type of files stored.
- Some USB storage device files may not be compatible.
- Up to two USB devices and one iPod can be played through a USB hub. All devices may not be supported, depending on the performance of the USB hub. If there is not enough power supply, it may not operate normally.
- Do not disconnect the USB storage device while it is playing. This may cause damage to the product or affect the performance of the USB device.
- Disconnect the USB storage device when the ignition is turned off. If the ignition is turned

- on while the USB device is connected, the USB device may be damaged or may not operate normally.
- USB storage devices can only be connected for playing music/ movies, viewing photo files, or upgrading.
- Do not use the USB terminal to charge USB accessory equipment. The heat generated may cause performance issues or damage.
- Store files in the top-level drive of the USB storage device. When the logical drive is separated from the device, only the USB music files from the top-level logical drive can be played. Music files stored on USB storage devices may not play normally if an application is loaded by partitioning a separate drive.
- Music files to which Digital Right Management (DRM) is applied cannot be played.

- USB storage device capacity limit is 2.500 music files, 2.500 photo files, 250 movie files. 2.500 folders, and 10 stages of folder structure. The iPod/iPhone. can play all music files supported, but will only display up to 2,500 files on the screen in alphabetical order.
- Some iPod/iPhone product models may not support the connectivity or functionality of this product.
- Only connect the iPod/iPhone with connection cables supported by iPod/iPhone products. Other connection cables cannot be used.
- The iPod/iPhone may be damaged if it is connected to the vehicle with the ignition on. When not in use, disconnect the iPod/iPhone.

- When the iPod/iPhone is connected to the USB port by using the iPod/iPhone cable, the Bluetooth music is not supported.
- Connect the iPod/iPhone to the USB port by using the iPod/ iPhone cable to play the music files. When the iPod/iPhone is connected to the AUX input terminal, the music file will not play.
- The iPod/iPhone playback functions and the information displayed may be different when played on the infotainment system.

	Step 1	Step 2	Step 3	Step 4	
Playlists	Playlists	Songs			
Artists	Artists	Albums	Songs		
Albums	Albums	Songs			
Songs	Sangs				
Genres	Genres	Artists	Albums	Songs	
Composer	Composer	Albums	Songs		
Audiobooks	Songs				

 Refer to the table for the classification items related to the search function provided by the iPod/iPhone.

USB Player

Playing Music from a USB Device

- Connect the USB device to the USB port.
- Play will start automatically after the system has finished reading the USB device.
- If a non-readable USB device is connected, an error message displays and the system will switch to the previous audio function.



If the USB device is already connected:

- Press 🔂.
- Press audio.
- Press Source▼.
- Press USB.

To stop the USB device and select another media source, press Source ♥, then select the other source.

To remove the USB device, select another function, then remove the USB device.

Pause

- Press II to pause.
- Press to resume.

Changing to Next/Previous Files

 Press to change to the next file. Press within five seconds of the playback time to play the previous file.

Returning to the Beginning of the Current File

Press ◀ after five seconds of the playback time.

Scanning Forward or Backward

Press and hold M or M during playback to rewind or fast forward. Release the button to resume playback at normal speed.

Playing a File Repeatedly

Press During playback.

- 1: Plays the current file repeatedly.
- ALL: Plays all files repeatedly.
- OFF: Returns to normal playback.

Playing a File Randomly

Press during playback.

- NO: Plays all files randomly.
- OFF: Returns to normal playback.

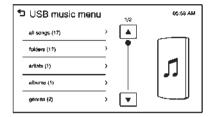
Viewing Information on the Currently Playing File

Press the title during playback to display information about the current file playing.

- The information displayed includes the title, file name, folder name, and artist/album saved with the song.
- Incorrect information cannot be modified or corrected on the infotainment system.
- The information for songs expressed in special symbols or in unavailable languages may be displayed as "..."

Using the USB Music Menu

Press MENU during playback.



Press the play mode.

Tone Settings

- 1. Press ▼.
- Press tone settings. The Tone Settings menu is displayed. See "Tone Settings" under "Radio Controls with Touchscreen" in Operation on page 7-8.

iPod/iPhone Player

This feature is limited to models supporting the iPod/iPhone connection.

Playing Music Files

 Connect the iPod/iPhone to the USB port.

- Play will start from the previously played point after the system has finished reading the USB device.
- If a non-readable USB device is connected, an error message displays and the system will switch to the previous audio function.

If the iPod/iPhone is already connected:

- 1. Press [△].
- 2. Press audio.
- Press Source▼.
- 4. Press iPod.

To stop the device and select another media source, press Source ▼, then select the other source.

To remove the device, select another function, then remove the device.

Pause

- Press II to pause.
- Press ▶ to resume.

Changing to Next/Previous Song

- Press to change to the next song.
- Press within two seconds of the playback time to play the previous file.

Returning to the Beginning of the Current File

Press ◀ after two seconds of the playback time.

Scanning Forward or Backward

Press and hold ← or → during playback to rewind or fast forward. Release the button to resume playback at normal speed.

Playing a File Repeatedly

Press during playback.

- 1: Plays the current file repeatedly.
- ALL: Plays all files repeatedly.
- OFF: Returns to normal playback.

Playing a File Randomly

Press during playback.

- NO: Plays all files randomly.
- OFF: Returns to normal playback.

Viewing Information on the Currently Playing Song

Press the title during playback to display information about the current song playing.

- The information displayed includes the title, file name, folder name, and artist/album saved with the song.
- Incorrect information cannot be modified or corrected on the infotainment system.

The information for songs expressed in special symbols or in unavailable languages may be displayed as "."

Using the iPod Menu

- Press MENU during playback.
- Press the appropriate play mode.

Tone Settings

- 1. Press ▼ on the iPod menu.
- Press tone settings. The tone settings menu is displayed. See "Tone Settings" under "Radio Controls with Touchscreen" in Operation on page 7-8.

Pictures and Movies (Picture System)

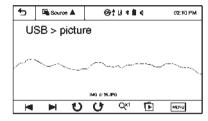
The infotainment system can view picture files stored on a USB storage device and devices that support Media Transfer Protocol (MTP).

Picture System Information Caution for Using Picture Files

- File size:
 - JPG: Within 64 to 5,000 pixels (Width) and 64 to 5,000 pixels (Height).
 - BMP, PNG, GIF: Within 64 to 1,024 pixels (Width) and 64 to 1,024 pixels (Height).
- File extensions: .jpg, .bmp, .png, .gif. Animated .gif files are not supported.
- Some files may not operate due to a different recording format or the condition of the file.

Viewing Pictures

Connect the USB device to the USB port.



2. Press the screen to open to full screen. Press the screen again to return to the previous screen.

If the USB device is already connected:

- 1. Press ₩.
- 2. Press 2 picture & movie.
- 3. Press Source ▼.
- 4. Press USB picture.

Some features are disabled while the vehicle is in motion.

Viewing a Slide Show

- From the picture screen, press
 The slide show will start to play.
- Press the screen to cancel the slide show during the slide show playback.

Viewing a Previous or Next Picture

Press or from the picture screen.

Rotating a Picture

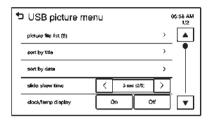
Press **U** or **U** from the picture screen.

Enlarging a Picture

Press Qx1 from the picture screen.

Using the USB Picture Menu

1. Press MENU from the picture screen.



2. Press the appropriate menu:

- picture file list: lists all picture files.
- sort by title: shows pictures in title order.
- sort by date: shows pictures in date order.
- slide show time: allows selection of the slide show interval.
- clock/temp display: allows selection of On or Off to show the clock and temperature on the full screen.
- display settings: adjusts for Brightness and Contrast.

3. Press **t**o exit.

Pictures and Movies (Movie System)

The infotainment system can play movie files stored on a USB storage device and devices that support Media Transfer Protocol (MTP).

Movie System Information Caution for Using Movie Files

- Available resolution: Within 720 x 576 (W x H) pixels.
- Frame rate: Less than 30 fps.
- Playable movie file: .avi, .mpg, .mp4, .divx, .xvid, .wmv. The playable movie file may not be played according to the codec format.
- Playable codec format: divx, xvid, mpeg-1, mpeg-4 (mpg4, mp42, mp43), wmv9 (wmv3).
- Playable Audio format: MP3, AC3, AAC, WMA.

- Max video bitrate:
 - mpeg-1: 8 Mbps
 - mpeg-4 (mpg4, mp42, mp43):4 Mbps
 - wmv9: 3 Mbps
 - divx 3: 3 Mbps
 - divx 4/5/6: 4.8 Mbps
 - xvid: 4.5 Mbps
- Max audio bitrate:
 - mp3: 320 Kbps
 - wma: 320 Kbps
 - ac-3: 640 Kbps
 - aac: 449 Kbps
- Movie files to which Digital Right Management (DRM) is applied may not be played.

Playing a Movie File

- 1. Connect the USB device to the USB port.
- 2. Press the screen to open to full screen. Press the screen again to return to the previous screen.

7-58 Infotainment System

If the USB device is already connected:

- 1. Press ຝີ.
- 2. Press 2 picture & movie.
- 3. Press Source V.
- 4. Press USB movie.

Movie is not available while driving.

Viewing a Slide Show

From the picture screen, press .

- · The slide show will start to play.
- Press the screen to cancel the slide show during the slide show playback.
- The last played audio source will play as background music during the slide show playback.

Pause

- Press II to pause.
- Press ▶ to resume.

Changing to Next/Previous Movie

- Press to change to the next file.
- Press within five seconds of the playback time to play the previous file.

Returning to the Beginning of the Current Movie

Press after five seconds of the playback time.

Scanning Forward or Backward

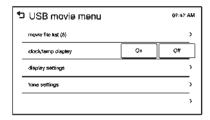
Press and hold ◀ or ▶ during playback to rewind or fast forward. Release the button to resume playback at normal speed.

Viewing Full Screen

Press again to return to the previous screen.

Using the USB Movie Menu

Press MENU from the movie screen.



- 2. Press the appropriate menu:
 - movie file list: lists all movie files.
 - clock/temp display: allows selection of On or Off to show the clock and temperature on the full screen.
 - display settings: adjusts for Brightness and Contrast.
 - tone settings: shows the sound setup. See "Tone Settings" under "Radio Controls with Touchscreen" in Operation on page 7-8.
- 3. Press **t** to exit.

Subtitle Language

If the movie file has a subtitle language, it can be viewed.

- Press

 from the movie screen.
- Press < or > on the pop-up screen.
- Press to close the pop-up screen.

If there is only one subtitle language, it can be set to On/Off.

Audio Language

If the movie file has an audio language, it can be used.

- Press ◀ from the movie screen.
- Press (4) < or > on the pop-up screen.
- Press to close the pop-up screen.

An audio language can be set only when supported by the DivX movie file.

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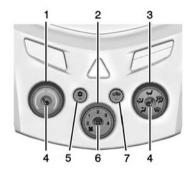
The navigation software is based in part on the work of the independent JPEG Group.

Climate Controls

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Climate Control Systems

If equipped with these climate control systems, the heating, cooling, and ventilation can be controlled for the vehicle.



Climate Control System with Heater and Air Conditioning

- 1. Temperature Control
- 2. Fan Control
- 3. Air Delivery Mode Control
- 4. Driver and Passenger Heated Seats

- 5. Air Conditioning
- 6. Rear Window Defogger
- 7. Recirculation



Climate Control System with Heater Only

- 1. Temperature Control
- 2. Fan Control
- 3. Air Delivery Mode Control
- 4. Rear Window Defogger

Temperature Control: Turn clockwise or counterclockwise to increase or decrease the temperature.

\$ (Fan Control): Turn clockwise or counterclockwise to increase or decrease the fan speed. Turning the fan control to 0 turns the fan off. The fan must be turned on to run the air conditioning compressor.

Air Delivery Mode Control: Turn clockwise or counterclockwise to change the current airflow mode.

Select from the following air delivery modes:

? (Vent): Air is directed to the instrument panel outlets.

(Bi-Level): Air is divided between the instrument panel and floor outlets.

(Floor): Air is directed to the floor outlets, with some air directed to the rear outlets.

(Defog): This mode clears the windows of fog or moisture. Air is directed to the floor, windshield, and side window outlets.

(Defrost): This mode clears the windshield of fog or frost more quickly. Air is directed to the windshield and side window outlets.

Do not drive the vehicle until all windows are clear.

In defrost or defog mode, excessive air conditioning use can cause the windows to fog. If this happens, change the air delivery mode to and reduce the fan speed.

★ (Air Conditioning): If equipped with air conditioning, follow these steps to use the system. Turn to the desired speed. The air conditioning does not operate when the fan control knob is in the off position. Press to turn the air conditioning on and off. When tis pressed, an indicator light comes on to show that the air conditioning is on.

For quick cool down on hot days, do the following:

- 1. Open the windows to let hot air escape.
- 2. Press <♀.
- 3. Press ★.
- 4. Select the coolest temperature.
- 5. Select the highest **\$** speed.

Using these settings together for long periods of time may cause the air inside the vehicle to become too dry. To prevent this from happening, after the air in the vehicle has cooled, turn the recirculation mode off.

(Recirculation): This mode recirculates and helps to quickly cool the air inside the vehicle. It can be used to prevent outside air and odors from entering the vehicle.

Press the button to turn the recirculation mode on. An indicator light comes on to show that the recirculation is on. Press the button again to return to outside air mode.

Using the recirculation mode for extended periods may cause the windows to fog. If this happens, select the defrost mode.

Max 🔆 is available when the air conditioning is selected and the temperature is set to the coolest setting while the outside air temperature is warm. When Max 🌣 is activated, the air inside the vehicle is automatically recirculated, which helps to quickly cool the vehicle. The recirculation indicator will not be lit.

To allow outside air to enter in these conditions, press the recirculation button twice. The recirculation indicator will not be lit.

₩ / ₩ (Heated Seats, If Equipped): Press to heat the driver or passenger seat. See Heated Front Seats on page 3-7.

Rear Window and Outside Mirror Defogger

(Rear Window Defogger):
Press to turn the rear window and outside mirror defogger on or off. An indicator light comes on to show that the feature is on.

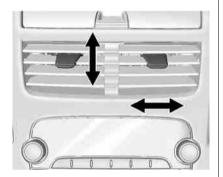
The rear window defogger turns off after about 10 minutes. It can also be turned off by pressing again or by turning the ignition to ACC/ACCESSORY or LOCK/OFF. If turned on again it runs for about five minutes before turning off.

For vehicles with heated outside rearview mirrors, they turn on with the rear window defogger and help to clear fog or frost from the surface of the mirror. See *Heated Mirrors on page 2-13*.

⚠ 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.

Air Vents



Use the air vents in the center and on the side of the instrument panel to direct the airflow. Move the slats on the center air vents to direct airflow.



Turn the knobs on the side air vents counterclockwise or clockwise to open or close off 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.

- Use of non-GM approved hood deflectors may adversely affect the performance of the system.
- Keep the path under the front seats clear of objects to help circulate the air inside the vehicle more effectively.

Maintenance

Air Intake

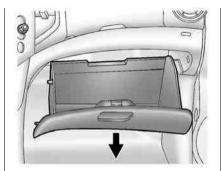
Clear away any ice, snow, or leaves from the air intake at the base of the windshield that can block the flow of air into the vehicle.

Passenger Compartment Air Filter

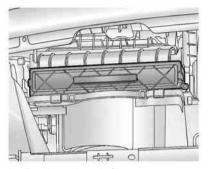
The filter removes dust, pollen, and other airborne irritants from outside air that is pulled into the vehicle.

The filter should be replaced as part of routine scheduled maintenance. See *Maintenance Schedule on page 11-2*. To find out what type of filter to use, see *Maintenance Replacement Parts on page 11-13*.

 Open the glove box completely and disconnect the damper on the outboard side.



- 2. Push in both sides of the glove box and pull to remove.
- Open the filter cover by releasing tabs on both sides and pulling up the cover.



- 4. Replace the air filter.
- 5. Close the air filter cover and reinstall the glove box.

See your dealer if additional assistance is needed.

Climate Controls 8-6 **№** NOTES

Driving and Operating

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Driving Information

Driver Behavior

Driving is an important responsibility. Driver behavior, the driving environment, and the vehicle's design all affect how well a vehicle performs.

Being aware of these factors can help in understanding how the vehicle handles and what can be done to avoid many types of crashes, including a rollover crash.

Most serious injuries and fatalities to unbelted occupants can be reduced or prevented by the use of safety belts. In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a safety belt. In addition, avoiding excessive speed, sudden or abrupt turns, and drunken or aggressive driving can help make trips safer and avoid the possibility of a crash.

Driving Environment

Be prepared for driving in inclement weather, at night, or during other times where visibility or traction may be limited, such as on curves, slippery roads, or hilly terrain. Unfamiliar surroundings can also have hidden hazards.

Vehicle Design

Utility vehicles have a significantly higher rollover rate than other types of vehicles. This is because they have a higher ground clearance and a narrower track or shorter wheelbase than passenger cars, which makes them more capable for off-road driving. While these design characteristics provide the driver with a better view of the road, these vehicles do have a higher center of gravity than other types of vehicles.

A utility vehicle does not handle the same as a vehicle with a lower center of gravity, like a car, in similar situations.

Safe driver behavior and understanding of the environment can help avoid a rollover crash in any type of vehicle, including utility vehicles.

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, always keep your eyes on the road, hands on the wheel, and mind on the drive.

- 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.

Marning

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 section 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 safety belt. See Safety Belts on page 3-13.

- 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.

Marning

Drinking and then driving is very dangerous. Your reflexes, perceptions, attentiveness, and judgment can be affected by even a small amount of alcohol. You

(Continued)

Warning (Continued)

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

If 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. See your dealer if there is a problem.

If the steering wheel is turned until it reaches the end of its travel, and is held in that position for an extended period of time, power steering assist may be reduced.

If the steering assist is used for an extended period of time, power assist may be reduced.

Normal use of the power steering assist should return when the system cools down.

Hydraulic Power Steering

If the vehicle has the hydraulic power steering, it may require maintenance. See *Power Steering Fluid* (1.4L L4 Engine) on page 10-20 or *Power Steering Fluid* (1.8L L4 Engine) on page 10-20.

If power steering assist is lost because the engine stops or a system malfunctions, the vehicle can be steered but may require increased effort.

↑ Caution

If the steering wheel is turned until it reaches the end of its travel, and is held in that position for more than 15 seconds, damage may occur to the power steering system and there may be loss of power steering assist.

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.
- 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:

- 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.
- 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.

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.

(Continued)

Warning (Continued)

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.

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 on* page 10-41.
- 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 for driving in these conditions 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.

Marning

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.

Marning

Coasting downhill in N (Neutral) or with the ignition off is dangerous. This can cause overheating of the brakes and loss of steering. Always have the engine running and the vehicle in gear.

- Stay in your own lane. Do not swing wide or cut across the center of the road. Drive at speeds that let you stay in your own lane.
- Be alert on top of hills; something could be in your lane (stalled car, accident).
- Pay attention to special road signs (falling rocks area, winding roads, long grades, passing or no-passing zones) and take appropriate action.

Winter Driving

Driving on Snow or Ice

Drive carefully when there is snow or ice between the tires and the road, creating less traction or grip. Wet ice can occur at about 0°C (32°F) when freezing rain begins to fall, resulting in even less traction. Avoid driving on wet ice or in freezing rain until roads can be treated with salt or sand.

Drive with caution, whatever the condition. Accelerate gently so traction is not lost. Accelerating too quickly causes the wheels to spin and makes the surface under the tires slick, so there is even less traction.

Traction Control should be turned on. See *Traction Control/Electronic Stability Control on page 9-31*.

The Antilock Brake System (ABS) improves vehicle stability during hard stops on slippery roads, but apply the brakes sooner than when on dry pavement. See *Antilock Brake System (ABS) on page 9-29*.

Allow greater following distance on any slippery road 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 on slippery surfaces.

Blizzard Conditions

Being stuck in snow can be a serious situation. Stay with the vehicle unless there is help nearby. If possible, use Roadside Assistance. See Roadside Assistance Program on page 13-5. 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 (Continued)

Warning (Continued)

cannot be seen or smelled. It can cause unconsciousness and even death.

If the vehicle is stuck in the snow:

- Clear away snow from around the base of your vehicle, especially any that is blocking the exhaust pipe.
- Check again from time to time to be sure snow does not collect there.
- Open a window about 5 cm (2 in) on the side of the vehicle 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 a setting that circulates the air inside the

(Continued)

Warning (Continued)

vehicle and set the fan speed to the highest setting. See "Climate Control Systems".

For more information about carbon monoxide, see *Engine Exhaust on page 9-22*.

To save fuel, run the engine for only short periods as needed to warm the vehicle and then shut the engine off and close the window most of the way to save heat. Repeat this until help arrives but only when you feel really uncomfortable from the cold. Moving about to keep warm also helps.

If it takes some time for help to arrive, now and then when you run 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 on page 9-31*.

⚠ 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).

9-10

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 on page 10-71.

Vehicle Load Limits

It is very important to know how much weight your 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 your vehicle show how much weight it may properly carry, the Tire and Loading Information label and the Certification/Tire label.

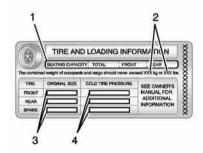
Marning

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 (Continued)

Warning (Continued)

vehicle handles. This could cause loss of control and a crash. Overloading can also shorten the life of the vehicle.

Tire and Loading Information Label



Example Label

A vehicle-specific Tire and Loading Information label is attached to the center pillar (B-pillar). The tire and loading information 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 on page 10-41* and *Tire Pressure on page 10-48*.

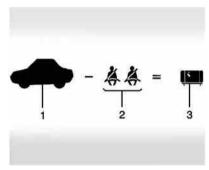
There is also important loading information on the vehicle Certification/Tire label. It tells you the Gross Vehicle Weight Rating (GVWR) and the Gross Axle Weight Rating (GAWR) for the front and rear axle. See "Certification/Tire Label" later in this section.

"Steps for Determining Correct Load Limit-

- Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.
- Determine the combined weight of the driver and passengers that will be riding in your vehicle.
- 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

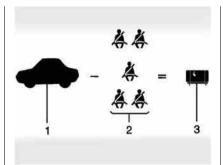
- and luggage load capacity is 650 lbs. (1400-750 (5 x 150) = 650 lbs.)
- Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
- If your vehicle will be towing a trailer, load 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."

This vehicle is neither designed nor intended to tow a trailer.



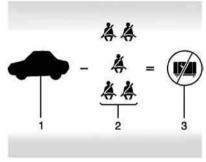
Example 1

- 1. Vehicle Capacity Weight for Example 1 = 453 kg (1,000 lbs).
- Subtract Occupant Weight @ 68 kg (150 lbs) × 2 = 136 kg (300 lbs).
- 3. Available Occupant and Cargo Weight = 317 kg (700 lbs).



Example 2

- Vehicle Capacity Weight for Example 2 = 453 kg (1,000 lbs).
- Subtract Occupant Weight @ 68 kg (150 lbs) × 5 = 340 kg (750 lbs).
- 3. Available Cargo Weight = 113 kg (250 lbs).

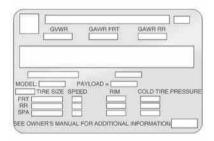


Example 3

- Vehicle Capacity Weight for Example 3 = 453 kg (1,000 lbs).
- Subtract Occupant Weight
 91 kg (200 lbs) × 5 =
 453 kg (1,000 lbs).
- 3. Available Cargo Weight = 0 kg (0 lbs).

Refer to your vehicle's tire and loading information label for specific information about your vehicle's capacity weight and seating positions. The combined weight of the driver, passengers, and cargo should never exceed your vehicle's capacity weight.

Certification/Tire Label



Label Example

A vehicle-specific Certification/ Tire label is attached to the center pillar (B-pillar). The label shows the gross weight capacity of your vehicle. This is called the Gross Vehicle Weight Rating (GVWR). The GVWR includes the weight of the vehicle, all occupants, fuel, and cargo.

The Certification/Tire label also tells you the maximum weights for the front and rear axles, called the Gross Axle Weight Rating (GAWR). To find out the actual loads on your front and rear axles, you need to go to a weigh station and weigh your vehicle. Your dealer can help you with this. Be sure to spread out your load equally on both sides of the centerline.

Never exceed the GVWR for your vehicle or the GAWR for either the front or rear axle.

⚠ 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 shorten the life of the vehicle.

Overloading the vehicle may cause damage. Repairs would not be covered by the vehicle warranty. Do not overload the vehicle.

If you put things inside your vehicle — like suitcases, tools, packages, or anything else, they will go as fast as the vehicle goes. If you have to stop or turn quickly, or if there is a crash, they will keep going.

Warning

Things you put inside the vehicle can strike and injure people in a sudden stop or turn, or in a crash.

(Continued)

Warning (Continued)

- Put things in the cargo area of the 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.
- Do not leave an unsecured child restraint in the vehicle.
- When you carry something inside the vehicle, secure it whenever you can.
- Do not leave a seat folded. down unless you need to.

Starting and **Operating**

New Vehicle Break-In

♠ Caution

The vehicle does not need an elaborate break-in But it will perform better in the long run if vou follow these guidelines:

- · Do not drive at any one constant speed, fast or slow, for the first 805 km (500 mi). Do not make full-throttle starts. Avoid downshifting to brake or slow the vehicle.
- Avoid making hard stops for the first 322 km (200 mi) or so. During this time the new brake linings are not yet broken in. Hard stops with new linings can mean premature wear and earlier replacement. Follow this

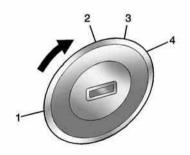
(Continued)

Caution (Continued)

breaking-in guideline every time you get new brake linings.

Following break-in, engine speed and load can be gradually increased.

Ignition Positions



The ignition switch has four different positions.

The key must be fully extended to start the vehicle.

To shift out of P (Park), the ignition must be in ON/RUN and the regular brake pedal applied.

1 (STOPPING THE ENGINE/LOCK/ OFF): When the vehicle is stopped, turn the ignition switch to LOCK/ OFF to turn the engine off.

This position locks the steering wheel, ignition, and transmission.

The ignition switch can bind in the LOCK/OFF position with the wheels turned off center. If this happens, move the steering wheel from right to left while turning the key to ACC/ACCESSORY. If this does not work, then the vehicle needs service.

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:

- Brake using a firm and steady pressure. Do not pump the brakes repeatedly. This may deplete power assist, requiring increased brake pedal force.
- 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.
- Come to a complete stop. Shift to P (Park) with an automatic transmission, or Neutral with a manual transmission. Turn the ignition to LOCK/OFF.
- 4. Set the parking brake. See *Parking Brake on page 9-30.*

Marning

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, turn the ignition to ACC/ ACCESSORY.

⚠ Caution

Using a tool to force the key to turn in the ignition could cause damage to the switch or break the key. Use the correct key, make sure it is all the way in, and turn it only with your hand. If the key cannot be turned by hand, see your dealer.

2 (ACC/ACCESSORY): This is the position in which you can operate things like the radio and the windshield wipers when the engine is off.

3 (ON/RUN): This position can be used to operate the electrical accessories and to display some instrument cluster warning and indicator lights. This position can also be used for service and diagnostics, and to verify the proper operation of the malfunction indicator lamp as may be required for emission inspection purposes. The switch stays in this position when the engine is running.

If you leave the key in the ACC/ ACCESSORY or ON/RUN position with the engine off, the battery could be drained. You may not be able to start the vehicle if the battery is allowed to drain for an extended period of time. **4 (START):** This is the position that starts the engine. When the engine starts, release the key. The ignition switch returns to ON/RUN for driving.

A warning tone will sound when the driver door is opened, the ignition is in ACC/ACCESSORY or LOCK/OFF, and the key is in the ignition. If the ignition becomes difficult to turn, see *Keys on page 2-1*.

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 on page 9-44.

⚠ Caution

If the steering wheel is turned until it reaches the end of its travel, and is held in that position while starting the vehicle, damage may occur to the hydraulic power steering system and there may be loss of power steering assist.

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 and start the engine.

Starting Procedure

 With your foot off the accelerator pedal, turn the ignition key to START. When the engine starts, let go of the ignition.

The idle speed will go down as your engine gets warm. Do not race the engine immediately after starting it. Operate the engine and transmission gently to allow the oil to warm up and lubricate all moving parts.

⚠ 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 (Continued)

Caution (Continued)

the cranking motor, and drain the battery. Wait at least 15 seconds between each try, to let the cranking motor cool down.

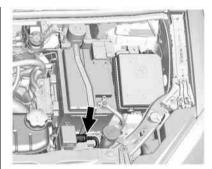
2. If the engine does not start after five to 10 seconds, especially in very cold weather (below -18°C or 0°F), it could be flooded with too much gasoline. Try pushing the accelerator pedal all the way to the floor and holding it there as you hold the key in START for up to a maximum of 15 seconds. Wait at least 15 seconds between each try. to allow the cranking motor to cool down. When the engine starts, let go of the key or button, and the accelerator. If the vehicle starts briefly but then stops again, do the same thing. This clears the extra gasoline from the engine. 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.

Engine Heater

Vehicles with the 1.4L engine may have an engine heater. The engine heater can help in cold weather conditions at or below –18°C (0°F) for easier starting and better fuel economy during engine warm-up. Plug in the heater at least four hours before starting the vehicle. An internal thermostat in the plug-end of the cord will prevent engine heater operation at temperatures above –18°C (0°F).

To Use The Engine Heater

1. Turn off the engine.



 Open the hood and unwrap the electrical cord. The cord is located in the driver side of the engine compartment, near the battery. It is shipped from the factory with a tie holding it in place. Use care in removing the tie so that the cord is not damaged.

Check the heater cord for damage. If it is damaged, do not use it. See your dealer for a replacement. Inspect the cord for damage yearly.

4. Plug it into a normal, grounded 110-volt AC outlet.

⚠ Warning

Improper use of the heater cord or an extension cord can damage the cord and may result in overheating and fire.

- Plug the cord into a three-prong electrical utility receptacle that is protected by a ground fault detection function. An ungrounded outlet could cause an electric shock.
- Use a weatherproof, heavy-duty, 15 amp-rated extension cord if needed.
 Failure to use the recommended extension cord in good operating condition, or using a damaged heater or extension cord, could make it

(Continued)

Warning (Continued)

overheat and cause a fire, property damage, electric shock, and injury.

- Do not operate the vehicle with the heater cord permanently attached to the vehicle. Possible heater cord and thermostat damage could occur.
- While in use, do not let the heater cord touch vehicle parts or sharp edges. Never close the hood on the heater cord.
- Before starting the vehicle, unplug the cord, reattach the cover to the plug, and securely fasten the cord. Keep the cord away from any moving parts.
- Before starting the engine, be sure to unplug and store the cord as it was before to keep it

away from moving engine parts. If you do not it could be damaged.

The length of time the heater should remain plugged in depends on several factors. Ask a dealer in the area where you will be parking the vehicle for the best advice on this.

Retained Accessory Power (RAP)

These vehicle accessories may be used for up to 10 minutes after the engine is turned off:

- Audio System
- Power Windows
- Sunroof

The power windows and sunroof will continue to work for up to 10 minutes or until any door is opened. The radio will work when the key is in ON/RUN or ACC/ ACCESSORY. Once the key is turned from ON/RUN to LOCK/OFF,

the radio will continue to work for 10 minutes, or until the driver door is opened.

Shifting Into Park

- Hold the brake pedal down and set the parking brake. See Parking Brake on page 9-30.
- Move the shift lever into P (Park) by pressing the button on the shift lever and pushing the lever all the way toward the front of the vehicle.
- 3. Turn the ignition key to LOCK/OFF.
- Remove the key and take it with you. If you can leave the vehicle with the ignition key in your hand, the vehicle is in P (Park).

Leaving the Vehicle with the Engine Running (Automatic Transmission)

Marning

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.

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 on page 9-19.

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 you have moved the shift lever into P (Park), hold the brake pedal down. Then see if you can move the shift lever away from P (Park) without first pushing the button on the shift 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 you leave

the driver seat. To find out how, see "Shifting Into Park" previously in this section.

When you are ready to drive, move the shift lever out of P (Park) before you release 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 parking pawl in the transmission, so you can pull the shift lever out of P (Park).

Shifting out of Park

This vehicle is equipped with a shift lock control. The shift lock control is designed to:

- Prevent ignition key removal unless the shift lever is in P (Park) with the shift lever button fully released.
- Prevent movement of the shift lever out of P (Park) unless the ignition is in ON/RUN and the brake pedal is applied.

The shift lock control is always functional except in the case of an uncharged or low voltage (less than 9-volt) battery.

If the vehicle has an uncharged battery or a battery with low voltage, try charging or jump starting the battery. See *Jump Starting on page 10-69*.

To shift out of P (Park):

- 1. Apply the brake pedal.
- 2. Turn the ignition to ON/RUN.
- 3. Press the shift lever button.
- 4. Move the shift lever to the desired position.

If still unable to shift out of P (Park):

- 1. Fully release the shift lever button.
- Hold the brake pedal down and press the shift lever button again.
- 3. Move the shift lever to the desired position.

If the shift lever still cannot be moved from P (Park), see "Shift Lock Manual Release."

Shift Lock Manual Release

The automatic transmission has an electric park lock. The key must be in the ON/RUN position, and the brake pedal pressed so the shift lever can be moved from the P (Park) position. If the battery has lost power, the shift lever cannot be moved from P (Park) unless the shift lock manual release is disengaged manually.

To access the shift lock manual release:

- Turn the ignition OFF and remove the key.
- 2. Hold the brake pedal down. Apply the parking brake.



3. Remove the cover on the console.



- 4. Insert and press the ignition key into the slot.
- Move the shift lever out of P (Park). If P (Park) is selected again after the key is removed from the slot, the shift lever will be locked again.
- 6. Remove the key from the slot.
- 7. Close the cover.
- 8. Have the cause of the problem fixed by your dealer.

Parking

If the vehicle has a manual transmission, before getting out of the vehicle, move the shift lever into R (Reverse) if parking on a downhill slope. On a level surface or an uphill slope, use 1 (First) gear. Firmly apply the parking brake. Turn the wheels toward the curb for a

downhill slope, or away from the curb for an uphill slope. Once the shift lever has been placed into gear with the clutch pedal pressed in, turn the ignition key to LOCK/OFF, remove the key, and release the clutch.

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.

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 on page 9-19* and *Engine Exhaust on page 9-22*. If the vehicle has a manual transmission, see *Parking on page 9-22*.

Automatic Transmission



The selected gear is also shown in the instrument cluster.

P (Park): This position locks the drive wheels. It is the best position to use when starting the engine because the vehicle cannot move easily.

Marning

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 on page 9-19.

Make sure the shift lever is fully in P (Park) before starting the engine. The vehicle has an automatic transmission shift lock control system. The regular brake must be fully applied first and then the shift lever button pressed before shifting from P (Park) when the ignition key

is in ON/RUN. If you cannot shift out of P (Park), ease pressure on the shift lever, then push the shift lever all the way into P (Park) as you maintain brake application. Then press the shift lever button and move the shift lever into another gear. See Shifting out of Park on page 9-20.

R (Reverse): 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 on page 9-9.

N (Neutral): 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. Also, use N (Neutral) when the vehicle is being towed.

The vehicle has an automatic neutral shift feature which allows the transmission to automatically shift to N (Neutral) when the vehicle is stopped with a forward gear engaged. The reduced load on the engine improves vehicle fuel economy.

⚠ 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 (Drive): This position is for normal driving. It provides the best fuel economy. If more power is needed for passing, and the vehicle is:

- Going less than 56 km/h
 (35 mph), push the accelerator
 pedal about halfway down.
- Going about 56 km/h (35 mph) or more, push the accelerator all the way down.

M (Manual Mode): This position allows shifting similar to a manual transmission. See *Manual Mode on page 9-25*.

↑ Caution

If the vehicle accelerates slowly, or does not shift gears, the transmission could be damaged. Have the vehicle serviced right away.

Manual Mode Driver Shift Control (DSC)



To use this feature:

 Move the shift lever from D (Drive) rearward to M (Manual).

While driving in manual mode, the transmission will remain in the driver selected gear. When coming to a stop in the manual position, the vehicle will automatically shift into 1 (First) gear.

 Press the + (plus) end of the button on the side of the shift lever to upshift, or push the – (minus) end of the button to downshift.

The instrument cluster will change from the currently displayed message to the letter "M," for Manual position, and a number indicating the requested gear.

While using the DSC feature, the transmission will have firmer shifting and sportier performance. This can be used for sport driving or when climbing hills to stay in gear longer or to downshift for more power or engine braking.

The transmission will only allow you to shift into gears appropriate for the vehicle speed and engine revolutions per minute (rpm):

- The transmission will not allow shifting to the next higher gear if the vehicle speed or engine rpm is too low
- The transmission will not allow shifting to the next lower gear if the vehicle speed or engine rpm is too high.

Manual Transmission

The vehicle may be equipped with a 5-speed or 6-speed manual transmission

Caution

Do not rest your hand on the shift lever while driving. The pressure could cause premature wear in the transmission. The repairs would not be covered by the vehicle warranty.

Caution

Do not rest your foot on the clutch pedal while driving or while stopped. The pressure can cause premature wear in the clutch. The repairs would not be covered by the vehicle warranty.

Shifting the vehicle initially into any gear other than 1 (First) or R (Reverse) can damage the clutch. Shift the manual transmission in the proper sequence, and time the gear shifting with the accelerator to avoid revving the engine and damaging the clutch.

1 (First): Press the clutch pedal fully to the pedal stop and shift into 1 (First). Then slowly let up on the clutch pedal as you press the accelerator pedal.

If you have come to a complete stop and it is hard to shift into 1 (First). put the shift lever in Neutral and let up on the clutch. Press the clutch pedal back down. Then shift into 1 (First).

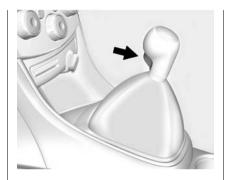
2 (Second): Press the clutch pedal fully to the pedal stop as you let up on the accelerator pedal and shift

into 2 (Second). Then, slowly let up on the clutch pedal as you press the accelerator pedal.

3 (Third), 4 (Fourth), 5 (Fifth), and 6 (Sixth): Shift into 3 (Third), 4 (Fourth), 5 (Fifth), and 6 (Sixth) (if equipped) the same way as for 2 (Second). Slowly let up on the clutch pedal as you press the accelerator pedal. Up-shifts should occur between 2000 and 3000 rpm and downshifts should occur between 2000 and 1000 rpm.

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 this position when you start or idle the engine. The shift lever is in Neutral when it is centered in the shift pattern, not in any gear.



R (Reverse): To engage R (Reverse), with the vehicle stationary, pull up on the button on the selector lever and engage the gear. If the gear does not engage, set the lever in Neutral, release the clutch pedal and apply it again; then repeat gear selection.

⚠ 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.

Shift Speeds

⚠ Caution

Do not skip gears while upshifting. This can cause premature wear in the transmission. The repairs would not be covered by the vehicle warranty.

Marning

If you skip a gear when downshifting, you could lose control of the vehicle. You could injure yourself or others. Do not shift down more than one gear at a time when downshifting.

Up-Shift Light



Vehicles equipped with a manual transmission may have an up-shift light. This light indicates when to shift to the next higher gear for better fuel economy.

For the best fuel economy, accelerate slowly and shift when the light comes on, and if the weather, road, and traffic conditions allow.

It is normal for the light to go on and off if the accelerator position changes quickly. Ignore the light during downshifts.

Drive Systems

All-Wheel Drive

If equipped, this feature transfers engine power, as required, to all four wheels. It is fully automatic, and adjusts itself as needed for road conditions.

When using a compact spare tire on an All-Wheel Drive (AWD) vehicle, the system automatically detects the compact spare and disables AWD to protect the system. A Driver Information Center (DIC) message will display on the instrument cluster. See *Vehicle Messages on page 5-25*. To restore AWD operation and prevent excessive wear on the system, replace the compact spare with a full-size tire as soon as possible. See *Compact Spare Tire on page 10-67*.

AWD will be disabled and the message will display if there is excessive wheel spin. When the system cools down, AWD will be restored.

Brakes

Antilock Brake System (ABS)

ABS (If Equipped) is 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 might be heard while this test is going on, and it might even be noticed that the brake pedal moves a little. This is normal.



If there is a problem with the ABS, this warning light stays on. See Antilock Brake System (ABS) Warning Light on page 5-17.

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 that 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.

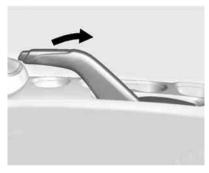
Using ABS

Do not pump the brakes. Just hold the brake pedal down firmly and let ABS work. You might hear the ABS pump or motor operating and feel the brake pedal pulsate, but 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.

Parking Brake



To set the parking brake, hold the brake pedal down and pull up on the parking brake lever. If the ignition is on, the brake system warning light will come on. See *Brake System Warning Light on page 5-16*.

To release the parking brake, hold the brake pedal down. Pull the parking brake lever up until you can press the release button. Hold the release button in as you move the brake lever all the way down.

⚠ 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.

Brake Assist

If equipped. Brake Assist is designed to assist 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, HSA may be useful 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. After the driver completely stops and holds the vehicle in a complete standstill on a grade, HSA will be automatically activated. During the transition period between when the driver releases the brake pedal and starts to accelerate to drive off on a grade. HSA holds the braking pressure to ensure that there is no rolling. The brakes will automatically release when the accelerator pedal is applied within the two-second window. It 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

System Operation

If equipped, the vehicle has a Traction Control System (TCS) and StabiliTrak[®], an electronic stability control system. These systems help limit wheel slip and assist the driver in maintaining control, especially on slippery road conditions.

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

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

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

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

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

It is recommended to leave both systems on for normal driving conditions, but it may be necessary to turn TCS off if the vehicle gets stuck in sand, mud, ice, or snow. See *If the Vehicle Is Stuck on page 9-9* 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 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.

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

Drive the vehicle. If \$\overline{R}\$ 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 button for TCS and StabiliTrak is on the center stack.

⚠ 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 button. The Traction Off light displays in the instrument cluster.

To turn TCS on again, press and release the \$\frac{1}{48}\$ button. The Traction Off light \$\frac{1}{49}\$ displayed in the instrument cluster will turn off.

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

To turn off both TCS and StabiliTrak, press and hold the button until the Traction Off light and StabiliTrak Off light come on and stay on in the instrument cluster.

To turn TCS and StabiliTrak on again, press and release the button. The Traction Off light and StabiliTrak Off light in the instrument cluster turn off.

Adding accessories can affect the vehicle performance. See Accessories and Modifications on page 10-2.

Descent Control System (DCS)

If equipped, the DCS allows the vehicle to travel at a low speed without applying the brake.

The vehicle will automatically decelerate to a low speed and remain there when DCS is turned on.

Use only when descending steep grades while driving off-road. Do not use when driving on normal road surfaces.



Turn the system on by pressing the DCS button on the center stack. The green DCS light comes on steady in the instrument cluster when the system is on.



The green DCS light flashes on the instrument cluster while driving at speeds below 35 km/h (22 mph) to show the system is operating.

Some noise or vibration from the brake system may be heard or felt when DCS is active. This is normal.

DCS will not activate at speeds above 35 km/h (22 mph), even if the button is pressed.

⚠ Caution

DCS is designed for driving down steep off-road hills. Unnecessary use of DCS can cause malfunctions in the brake system or StabiliTrak. Do not use DCS when driving on normal road surfaces.

To turn the system off, press the DCS button again and the DCS light turns off. Applying the brake or accelerator will also cause DCS to turn off.

Cruise Control

If the vehicle is equipped 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 40 km/h (25 mph).

Marning

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 the vehicle's Traction Control System (TCS) or StabiliTrak system begins to limit wheel spin while using cruise control, the cruise control will automatically disengage. See *Traction Control/Electronic Stability Control on page 9-31*. When road conditions allow you to safely use it again, cruise control can be turned back on.

If the brakes are applied, cruise control disengages.



CRUIST (On/Off): Press to turn the cruise control system on and off. A white indicator comes on in the instrument cluster when cruise is turned on.

RES/+ (Resume/Accelerate): If there is a set speed in memory, move the thumbwheel up briefly to resume to that speed or hold upwards to accelerate. If cruise control is already active, use to increase vehicle speed.

SET/- (**Set/Coast**): Move the thumbwheel down briefly to set the speed and activate cruise control. If cruise control is already active, use to decrease speed.

CANCEL (Cancel): Press to disengage cruise control without erasing the set speed from memory.

Setting Cruise Control

If triving is on when not in use, the SET/- or RES/+ could get bumped and go into cruise when not desired. Keep triving off when cruise control is not being used.

To set cruise control:

- 1. Press cruise to turn the cruise system on.
- 2. Get up to the desired speed.

- Move the thumbwheel down to SET/- and release it. The desired set speed briefly appears in the instrument cluster.
- 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 on page 5-9*.

Resuming a Set Speed

If the cruise control is set at a desired speed and then the brakes or clutch for manual transmissions are applied, the cruise control is disengaged without erasing the set speed from memory.

Once the vehicle reaches about 40 km/h (25 mph) or more, move the thumbwheel up toward RES/+ briefly. The vehicle returns to the previous set speed.

Increasing Speed While Using Cruise Control

If the cruise control system is already activated:

- Move the thumbwheel up toward RES/+ and hold it until the desired speed is reached, then release it.
- To increase vehicle speed in small increments, move the thumbwheel up toward RES/+ briefly. For each press, the vehicle goes about 1.6 km/h (1 mph) faster.

The speedometer reading can be displayed in either English or metric units. See *Instrument Cluster on page 5-9*. The increment value used depends on the units displayed.

Reducing Speed While Using Cruise Control

If the cruise control system is already activated:

- Move the thumbwheel toward SET/– and hold until the desired lower speed is reached, then release it.
- To decrease the vehicle speed in small increments, move the thumbwheel toward SET/– briefly. For each press, the vehicle goes about 1.6 km/h (1 mph) slower.

The speedometer reading can be displayed in either English or metric units. See *Instrument Cluster on page 5-9*. The increment value used depends on the units displayed.

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 slows down to the previously set cruise control speed. While pressing the accelerator pedal or shortly following the release to override cruise, briefly moving the thumbwheel toward SET/– will result in cruise set to the current vehicle speed.

Using Cruise Control on Hills

How well cruise control works on hills depends on 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 the vehicle 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.

Ending Cruise Control

There are four ways to end cruise control:

- Step lightly on the brake pedal or clutch for manual transmission.
- Press cancel.
- Shift the transmission to N (Neutral).
- To turn off cruise control, press cruise.

Erasing Speed Memory

The cruise control set speed is erased from memory if the truise button is pressed or if the ignition is turned off.

Driver Assistance Systems

Parking Assist

For vehicles with the Rear Parking Assist (RPA) system, it assists the driver with parking and avoiding objects while in R (Reverse). RPA operates at speeds less than 8 km/h (5 mph), and the sensors on the rear bumper detect objects up to 2.5 m (8 ft) behind the vehicle, and at least 20 cm (8 in) off the ground.

⚠ Warning

The parking assist system does not detect children, pedestrians, bicyclists, animals, or objects below the bumper or that are too close or too far from the vehicle. It is not available at speeds greater than 8 km/h (5 mph). To prevent injury, death, or vehicle damage, even with parking assist, (Continued)

Warning (Continued)

always check the area around the vehicle and check all mirrors before backing.

How the System Works

RPA comes on automatically when the shift lever is moved into R (Reverse).

RPA operates only at speeds less than 8 km/h (5 mph).

An obstacle is indicated by audible beeps. The interval between the beeps becomes shorter as the vehicle gets closer to the obstacle. When the distance is less than 40 cm (16 in) the beeping is a continuous tone for five seconds.

To be detected, objects must be at least 20 cm (8 in) off the ground and below liftgate level. Objects must also be within 2.5 m (8 ft) from the rear bumper. The distance objects can be detected may be less during warmer or humid weather

Turning the System On and Off

The RPA system can be turned on and off using the infotainment system controls. See *Vehicle Personalization on page 5-28*.

When the System Does Not Seem to Work Properly



This light may come on for the following reasons:

- The sensors are not clean. Keep the vehicle's rear bumper free of mud, dirt, snow, ice, and slush.
 For cleaning instructions, see Exterior Care on page 10-74.
- The park assist sensors are covered by frost or ice. Frost or ice can form around and behind the sensors and may not always be seen: this can occur after

washing the vehicle in cold weather. The light may not clear until the frost or ice has melted.

- A trailer was attached to the vehicle, or an object was hanging out of the liftgate during the last drive cycle. Once the object is removed, RPA will return to normal operation.
- A tow bar is attached to the vehicle.
- The bumper is damaged. Take the vehicle to your dealer to repair the system.
- Other conditions, such as vibrations from a jackhammer or the compression of air brakes on a very large truck, are affecting system performance.

If the above conditions do not exist, take the vehicle to your dealer to repair the system.

Rear Vision Camera (RVC)

The vehicle may have an RVC system. Read this entire section before using it.

The RVC can assist the driver when backing up by displaying a view of the area behind the vehicle.

⚠ Warning

The RVC system does not display children, pedestrians, bicyclists, crossing traffic, animals, or any other object located outside the camera's field of view, below the bumper, or under the vehicle. Perceived distances may be different from actual distances. Do not back the vehicle using only the RVC screen. Failure to use proper care before backing may result in injury, death, or vehicle damage. Always check behind and around the vehicle before backing.

An image appears on the infotainment screen with the message Check Surroundings for Safety when the vehicle is shifted into R (Reverse). The infotainment screen goes to the previous screen after approximately four seconds once the vehicle is shifted out of R (Reverse).

To see the previous screen sooner, do one of the following:

- Press a hard key on the infotainment system.
- Shift into P (Park).
- Reach a vehicle speed of 8 km/h (5 mph).

Guidelines

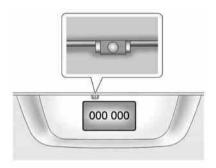
The RVC system may have a guideline overlay that can help the driver align the vehicle when backing into a parking spot.

To turn the guidelines on or off:

1. Shift into P (Park).

- From the home page on the infotainment system with touchscreen, select Settings
- 3. Select Rear Camera Options
- 4. Select Guidelines.

Rear Vision Camera Location

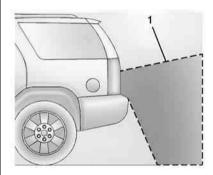


The camera is above the license plate.

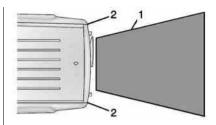
The area displayed by the camera is limited

It does not display objects that are close to either corner or under the bumper and can vary depending on vehicle orientation or road conditions. Displayed images may be farther or closer than they appear.

The following illustrations show the field of view that the camera provides.



View displayed by the camera.



- View displayed by the camera.
- 2. Corner of the rear bumper.

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 headamps 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 an accident. 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.
- There are extreme temperature changes.

Fuel

Use of the recommended fuel is an important part of the proper maintenance of this vehicle. When driving in the U.S. and Canada, to help keep the engine clean and maintain optimum vehicle performance, we recommend using TOP TIER Detergent Gasolines. See www.toptiergas.com for a list of TOP TIER Detergent Gasolines.





Essences Détergentes

Use regular unleaded gasoline meeting ASTM specification D4814 with a posted octane rating of 87 or

higher. Do not use gasoline with an octane rating below 87; as it may cause engine damage and will lower fuel economy.

Use of Seasonal Fuels

Use summer and winter fuels in the appropriate season. The fuels industry automatically modifies the fuel for the appropriate season. If fuel is left in the vehicle tank for long periods of time, driving or starting could be affected. Drive the vehicle until the fuel is at one-half tank or less, then refuel with the current seasonal fuel.

Prohibited Fuels

Gasolines containing oxygenates such as ethers and ethanol, as well as reformulated gasolines, are available in some cities. If these gasolines comply with the previously described specification, then they are acceptable to use. However, E85 (85% ethanol) and other fuels containing more than 15% ethanol must be used only in FlexFuel vehicles.

⚠ Caution

Do not use fuel containing methanol. It can corrode metal parts in the fuel system and also damage plastic and rubber parts. That damage would not be covered under the vehicle warranty.

Some gasolines, mainly high octane racing gasolines, can contain an octane-enhancing additive called methylcyclopentadienyl manganese tricarbonyl (MMT). Do not use gasolines and/or fuel additives with MMT as they can reduce spark plug life and affect emission control system performance. The malfunction indicator lamp may turn on. If this occurs, see your dealer for service.

Fuels in Foreign Countries

If planning to drive in countries outside the U.S. or Canada, the proper fuel might be hard to find. Check regional auto club or fuel retail brand websites for availability in the country where driving. Never use leaded gasoline, fuel containing methanol, manganese, or any other fuel not recommended. Costly repairs caused by use of improper fuel would not be covered by the vehicle warranty.

Fuel Additives

To keep fuel systems clean, TOP TIER Detergent Gasoline is recommended. See *Fuel on page 9-40*.

If TOP TIER Detergent Gasoline is not available, one bottle of Fuel System Treatment PLUS added to the fuel tank at every engine oil change, can help. Fuel System Treatment PLUS is the only gasoline additive recommended by General Motors. It is available at your dealer.

Filling the Tank

Marning

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.
- Do not leave the fuel pump unattended.
- Do not reenter the vehicle while pumping fuel.

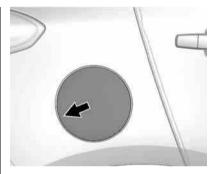
(Continued)

Warning (Continued)

- Keep children away from the fuel pump and never let children pump fuel.
- Fuel can spray out if the fuel cap is opened too quickly. This spray can happen if the tank is nearly full, and is more likely in hot weather. Open the fuel cap slowly and wait for any hiss noise to stop then unscrew the cap all the way.

The fuel cap is behind a hinged fuel door on the right rear side of the vehicle.

If equipped, the fuel door is locked when the vehicle doors are locked. Press on the RKE transmitter to unlock.



To open the fuel door, push and release the rearward center edge of the door.

To remove the fuel cap, turn it slowly counterclockwise. The fuel cap has a spring in it; if the cap is released too soon, it will spring back to the right.

While refueling, hang the fuel cap from the hook on the fuel door.

Be careful not to spill fuel. Do not top off or overfill the tank and wait a few seconds after you have finished pumping before removing the nozzle. Clean fuel from painted surfaces as soon as possible. See Exterior Care on page 10-74.

When replacing the fuel cap, turn it clockwise until it clicks. Make sure the cap is fully installed. The diagnostic system can determine if the fuel cap has been left off or improperly installed. This would allow fuel to evaporate into the atmosphere. See *Malfunction Indicator Lamp on page 5-13*.

⚠ Warning

If a fire starts while you are refueling, do not remove the nozzle. Shut off the flow of fuel by shutting off the pump or by notifying the station attendant. Leave the area immediately.

⚠ Caution

If a new fuel cap is needed, be sure to get the right type of cap from your dealer. The wrong type of fuel cap may not fit properly, may cause the malfunction indicator lamp to light, and could damage the fuel tank and emissions system. See Malfunction Indicator Lamp on page 5-13.

Filling a Portable Fuel Container

⚠ Warning

Filling a portable fuel container while it is in the vehicle can cause fuel vapors that can ignite either by static electricity or other means. You or others could be badly burned and the vehicle could be damaged. Always:

- Use approved fuel containers.
- Remove the container from the vehicle, trunk, or pickup bed before filling.
- Place the container on the ground.

(Continued)

Warning (Continued)

- Place the nozzle inside the fill opening of the container before dispensing fuel, and keep it in contact with the fill opening until filling is complete.
- Fill the container no more than 95% full to allow for expansion.
- Do not smoke, light matches, or use lighters while pumping fuel.
- Avoid using cell phones or other electronic devices.

Towing

General Towing Information

The vehicle is neither designed nor intended to tow a trailer.

Conversions and Add-Ons

Add-On Electrical Equipment

⚠ Caution

Some electrical equipment can damage the vehicle or cause components to not work and would not be covered by the 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 on page 3-40 and Adding Equipment to the Airbag-Equipped Vehicle on page 3-41.

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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:



Genuine M | Parts





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 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 on page 3-41.

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 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 *Service Publications Ordering Information on page 13-10*.

This vehicle has an airbag system. Before attempting to do your own service work, see Servicing the Airbag-Equipped Vehicle on page 3-40.

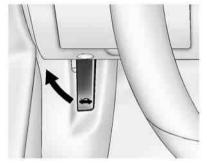
Keep a record with all parts receipts and list the mileage and the date of any service work performed. See *Maintenance Records on page 11-14*.

⚠ Caution

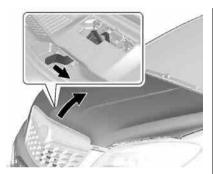
Even small amounts of contamination can cause damage to vehicle systems. Do not allow contaminants to contact the fluids, reservoir caps, or dipsticks.

Hood

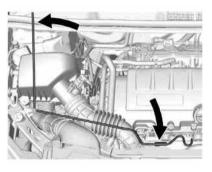
To open the hood:



 Pull the hood release handle inside the vehicle. It is located on the lower left side of the instrument panel.



Go to the front of the vehicle and move the secondary hood release lever toward the right side of the vehicle.

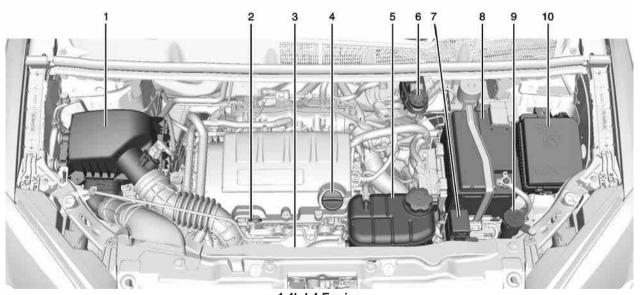


 Lift the hood and release the hood prop from its retainer, above the radiator. Securely place the hood prop into the slot on the underside of the hood.

To close the hood:

- Before closing the hood, be sure all filler caps are on properly. Then, lift the hood to relieve pressure on the hood prop. Remove the hood prop from the slot in the underside of the hood and return the prop to its retainer. The prop rod must click into place when returning it to the retainer to prevent hood damage.
- Lower the hood 30 cm (12 in)
 above the vehicle and release it
 so it fully latches. Check to
 make sure the hood is closed
 and repeat the process if
 necessary.

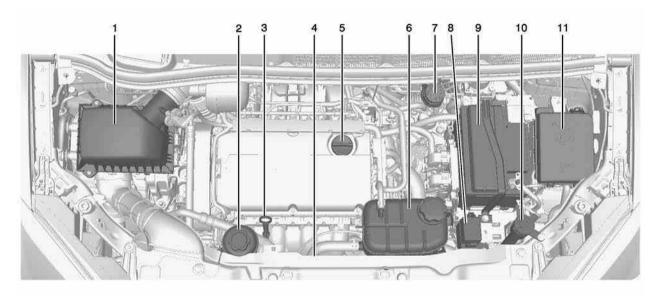
Engine Compartment Overview



1.4L L4 Engine

- 1. Engine Air Cleaner/Filter on page 10-13.
- 2. Engine Oil Dipstick. See *Engine Oil on page 10-9*.
- 3. Engine Cooling Fan (Out of View). See Cooling System on page 10-15.
- 4. Engine Oil Fill Cap. See *Engine Oil on page 10-9*.
- 5. Engine Coolant Surge Tank and Pressure Cap. See *Cooling* System on page 10-15.

- 6. Brake/Clutch Fluid Reservoir. See *Brakes on page 10-22* and *Hydraulic Clutch on page 10-13*.
- 7. Auxiliary Fuse Block. See Engine Compartment Fuse Block on page 10-33.
- 8. Battery on page 10-25.
- Windshield Washer Fluid Reservoir. See Washer Fluid on page 10-21.
- 10. Engine Compartment Fuse Block on page 10-33.



1.8L L4 Engine

- 1. Engine Air Cleaner/Filter on page 10-13.
- 2. Power Steering Fluid Reservoir. See Power Steering Fluid (1.4L L4 Engine) on page 10-20 or Power Steering Fluid (1.8L L4 Engine) on page 10-20.
- 3. Engine Oil Dipstick. See *Engine Oil on page 10-9*.
- 4. Engine Cooling Fan (Out of View). See Cooling System on page 10-15.
- 5. Engine Oil Fill Cap. See *Engine Oil on page 10-9*.
- Engine Coolant Surge Tank and Pressure Cap. See Cooling System on page 10-15.
- 7. Brake/Clutch Fluid Reservoir. See Brakes on page 10-22 and Hydraulic Clutch on page 10-13.
- 8. Auxiliary Fuse Block. See Engine Compartment Fuse Block on page 10-33.
- 9. Battery on page 10-25.

- Windshield Washer Fluid Reservoir. See Washer Fluid on page 10-21.
- 11. Engine Compartment Fuse Block on page 10-33.

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:

- Always 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 on page 10-11.

 Always dispose of engine oil properly. See "What to Do with Used Oil" in this section.

Checking Engine Oil

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. See *Engine Compartment Overview on page 10-6* for the location of the engine oil dipstick.

Obtaining an accurate oil level reading is essential:

 If the engine has been running recently, turn off the engine and allow several minutes for the oil to drain back into the oil pan. Checking the oil level too soon after engine shutoff will not provide an accurate oil level reading.

Marning

The engine oil dipstick handle may be hot; it could burn you. Use a towel or glove to touch the dipstick handle.

 Pull out the dipstick and 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



If the oil is below the MIN mark on the dipstick, add 1 L (1 qt) of the recommended oil and then recheck the level. See "Selecting the Right Engine Oil" in this section for an explanation of what kind of oil to use. For engine oil crankcase capacity, see *Capacities and Specifications on page 12-2*.

⚠ 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 you find that you have an oil level above the operating range, i.e., the engine has so much oil that the oil level gets above the MAX mark, the engine could be damaged. You should drain out the excess oil or limit driving of the vehicle and seek a service professional to remove the excess amount of oil.

See Engine Compartment Overview on page 10-6 for the location of the engine oil fill cap.

Add enough oil to put the level somewhere in the proper operating range between the MIN and MAX marks. Push the dipstick all the way back in when through.

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 on page 11-11.

Specification

Use and ask for licensed engine oils with the dexos1® approved certification mark. Engine oils meeting the requirements for the vehicle should have the dexos1 approved certification mark. This certification mark indicates that the oil has been approved to the dexos1 specification. See www.gmdexos.com.



⚠ Caution

Failure to use the recommended engine oil can result in engine damage not covered by the vehicle warranty. Check with your dealer or service provider on whether the oil is approved to the dexos1 specification.

Viscosity Grade

Use SAE 5W-30 viscosity grade engine oil.

Cold Temperature Operation: In an area of extreme cold, where the temperature falls below -29°C (-20° F), an SAE 0W-30 oil may be used. An oil of this viscosity grade will provide easier cold starting for the engine at extremely low

temperatures. When selecting an oil of the appropriate viscosity grade, always select an oil of the correct specification. See "Specification" earlier in this section for more information.

Engine Oil Additives/Engine Oil Flushes

Do not add anything to the oil. The recommended oils with the dexos specification and displaying the dexos certification mark 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 system 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.

When the system has calculated that oil life has been diminished, it indicates that an oil change is necessary. A ₹ % CHANGE message in the DIC comes on. See Vehicle Messages on page 5-25. Change the oil as soon as possible within the next 1000 km (600 mi). It is possible that, if driving under the best conditions, the oil life system might indicate that an oil change is not 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.

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:

- Press the MENU button to show Remaining Oil Life on the display. This display shows an estimate of the oil's remaining useful life. If 99% is displayed, that means that 99% of the current oil life remains.
- To reset the engine oil life system, press the SET/CLR button while the oil life display is active. After a few seconds, there will be a single chime and the oil life will be reset to 100%.





Be careful not to reset the oil life display accidentally at any time other than after the oil is changed. It cannot be reset accurately.

If the % % CHANGE message in the DIC 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 your dealer and have it repaired as soon as possible.

There is a special procedure for checking and changing the transmission fluid. Because this procedure is difficult, you should have this done at your dealer.

Change the fluid at the intervals listed in *Maintenance Schedule on page 11-2*, and be sure to use the fluid listed in *Recommended Fluids and Lubricants on page 11-11*.

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 your dealer and have it repaired as soon as possible.

Hydraulic Clutch

For vehicles with a manual transmission, it is not necessary to regularly check brake/clutch fluid unless there is a leak suspected. Adding fluid will not correct a leak. A fluid loss in this system could indicate a problem. Have the system inspected and repaired.

When to Check and What to Use

The common hydraulic clutch and brake master cylinder fluid reservoir is filled with brake fluid as indicated

on the reservoir cap. See Engine Compartment Overview on page 10-6 for reservoir location.

How to Check and Add Fluid

Visually check the brake/clutch fluid reservoir to make sure the fluid level is at the MIN (minimum) line on the side of the reservoir. The brake/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

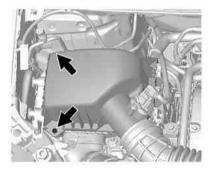
The engine air cleaner/filter is in the engine compartment on the passenger side of the vehicle. See Engine Compartment Overview on page 10-6.

When to Inspect the Engine Air Cleaner/Filter

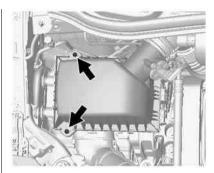
Inspect the air cleaner/filter at the scheduled maintenance intervals. See *Maintenance Schedule on page 11-2*. If you are driving in dusty/dirty conditions, inspect the filter at each engine oil change.

How to Inspect the Engine Air Cleaner/Filter

To inspect the engine air cleaner/ filter, remove the filter from the vehicle and lightly shake the filter to release loose dust and dirt. If the filter remains covered with dirt, a new filter is required. To inspect or replace the air cleaner/ filter:



1.4L L4 Engine



1.8L L4 Engine

- Remove the two screws, tilt the cover, and slide it out of the assembly.
- 2. Inspect or replace the engine air cleaner/filter.
- Lower the cover, slide it into the assembly, then secure with the two screws.

See Maintenance Schedule on page 11-2 for replacement intervals.

Marning

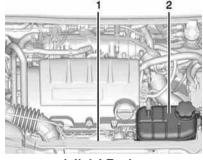
Operating the engine with the air cleaner/filter off can cause you or others to be burned. The air cleaner not only cleans the air; it helps to stop flames if the engine backfires. Use caution when working on the engine and do not drive with the air cleaner/filter off.

⚠ 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 you are driving.

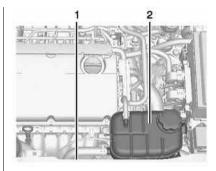
Cooling System

The cooling system allows the engine to maintain the correct working temperature.



1.4L L4 Engine

- Engine Cooling Fan (Out of View)
- 2. Engine Coolant Surge Tank and Pressure Cap



1.8L L4 Engine

- Engine Cooling Fan (Out of View)
- 2. Engine Coolant Surge Tank and Pressure Cap

Warning

An electric engine cooling fan under the hood 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.

Marning

Heater and radiator hoses, and other engine parts, can be very hot. Do not touch them. If you do, you can be burned.

Do not run the engine if there is a leak. If you run the engine, it could lose all coolant. That could cause an engine fire, and you could be burned. Get any leak fixed before you drive the vehicle.

⚠ Caution

Using coolant other than DEX-COOL® can cause premature engine, heater core, or radiator corrosion. In addition, the engine coolant could require changing sooner. Any repairs would not be covered by the (Continued)

Caution (Continued)

vehicle warranty. Always use DEX-COOL (silicate-free) coolant in the vehicle.

Engine Coolant

The cooling system in the vehicle is filled with DEX-COOL engine coolant. This coolant is designed to remain in the vehicle for 5 years or 240 000 km (150,000 mi), whichever occurs first.

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 on page 10-19*.

What to Use

⚠ Warning

Adding only plain water or some other liquid to the cooling system can be dangerous. Plain water and other liquids, can boil before the proper coolant mixture will. The coolant warning system is set for the proper coolant mixture. With plain water or the wrong mixture, the engine could get too hot but you would not get the overheat warning. The engine could catch fire and you or others could be burned. Use a 50/50 mixture of clean, drinkable water and DEX-COOL coolant.

Use a 50/50 mixture of clean drinkable water and DEX-COOL coolant. This mixture:

 Gives freezing protection down to −37°C (−34°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

If improper coolant mixture, inhibitors, or additives are used in the vehicle cooling system, the engine could overheat and be damaged. Too much water in the mixture can freeze and crack engine cooling parts. The repairs would not be covered by the vehicle warranty. Use only the proper mixture of engine coolant for the cooling system. See Recommended Fluids and Lubricants on page 11-11.

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.

Checking Coolant

The vehicle must be on a level surface when checking the coolant level.

It is normal to see coolant moving in the upper coolant hose return line when the engine is running.

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 mark pointed to, add a 50/50 mixture of clean drinkable water and DEX-COOL coolant.

Be sure the cooling system is cool before this is done.

If no coolant is visible in the coolant surge tank, add coolant as follows:

How to Add Coolant to the Coolant Surge Tank

⚠ Caution

This vehicle has a specific coolant fill procedure. Failure to follow this procedure could cause the engine to overheat and be severely damaged.

If no problem is found, check to see if coolant is visible in the coolant surge tank. If coolant is visible but the coolant level is not at the indicated level mark, add a 50/50 mixture of clean, drinkable

water and DEX-COOL coolant at the coolant surge tank, but be sure the cooling system, including the coolant surge tank pressure cap, is cool before you do it.

Marning

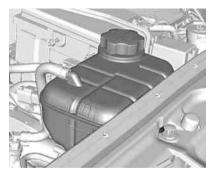
Steam and scalding liquids from a hot cooling system can blow out and burn you badly. Never turn the cap when the cooling system, including the surge tank pressure cap, is hot. Wait for the cooling system and surge tank pressure cap to cool.

⚠ Caution

In cold weather, water can freeze and crack the engine, radiator, heater core, and other parts. Use the recommended coolant and the proper coolant mixture.

Marning

You can be burned if you spill coolant on hot engine parts. Coolant contains ethylene glycol and it will burn if the engine parts are hot enough. Do not spill coolant on a hot engine.



1.4L Engine Shown, 1.8L Engine Similar

 Remove the coolant surge tank pressure cap when the cooling system, including the coolant surge tank pressure cap and upper radiator hose, is no longer hot.

Turn the pressure cap slowly counterclockwise about one-quarter of a turn. If you hear a hiss, wait for that to stop. This will allow any pressure still left to be vented out the discharge hose.

- 2. Keep turning the pressure cap slowly and remove it.
- Fill the coolant surge tank with the proper DEX-COOL coolant mixture to the indicated level mark

 With the coolant surge tank pressure cap off, start the engine and let it run until you can feel the upper radiator hose getting hot. 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 DEX-COOL coolant mixture to the coolant surge tank until the level reaches the indicated level mark

5. Replace the pressure cap tightly.

Check the level in the coolant surge tank when the cooling system has cooled down. If the coolant is not at the proper level, repeat Steps 1–3 and reinstall the pressure cap. 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 possible engine damage may occur. Be sure the cap is properly and tightly secured.

Engine Overheating

The vehicle has an indicator to warn of the engine overheating. See Engine Coolant Temperature Warning Light on page 5-19.

If the decision is made not to lift the hood when this warning appears, get service help right away. See Roadside Assistance Program on page 13-5.

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. Have the vehicle serviced.

⚠ Caution

Running the engine without coolant may cause damage or a fire. Vehicle damage would not be covered by the vehicle warranty.

If Steam Is Coming from the Engine Compartment

⚠ Warning

Steam from an overheated engine can burn you badly, even if you just open the hood. Stay away from the engine if you see or hear steam coming from it. Just turn it off and get everyone away from the vehicle until it cools down.

(Continued)

Warning (Continued)

Wait until there is no sign of steam or coolant before you open the hood.

If you keep driving when the engine is overheated, the liquids in it can catch fire. You or others could be badly burned. Stop the engine if it overheats, and get out of the vehicle until the engine is cool.

If No Steam Is Coming from the Engine Compartment

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.
- Turn the heater on to the highest temperature and to the highest fan speed. Open the windows as necessary.
- When it is safe to do so, pull off the road, shift to P (Park) or N (Neutral) for an automatic transmission or Neutral for a manual transmission, and let the engine idle.

If the 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.

Power Steering Fluid (1.4L L4 Engine)

The vehicle has electric power steering and does not use power steering fluid.

Power Steering Fluid (1.8L L4 Engine)



See Engine Compartment Overview on page 10-6 for information on the location of the power steering fluid reservoir.

When to Check Power Steering Fluid

It is not necessary to regularly check power steering fluid unless a leak is suspected in the system or an unusual noise is heard. A fluid loss in this system could indicate a problem. Have the system inspected and repaired.

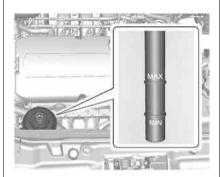
How to Check Power Steering Fluid

Check the level after the vehicle has been driven for at least 20 minutes so the fluid is warm.

To check the power steering fluid:

- Turn the ignition to LOCK/OFF and let the engine compartment cool down.
- 2. Wipe the cap and the top of the reservoir clean.
- 3. Unscrew the cap and pull it straight up.
- 4. Wipe the dipstick with a clean rag.

- 5. Replace the cap and completely tighten it.
- 6. Remove the cap again and look at the fluid level on the dipstick.



When the engine is hot, the level should be at the hot MAX level. When the engine is cold, the fluid level should be between MIN and MAX on the dipstick.

What to Use

To determine what kind of fluid to use, see *Recommended Fluids and Lubricants on page 11-11*. Always use the proper fluid.

Washer Fluid

What to Use

When the vehicle needs windshield washer fluid, be sure to read the manufacturer's instructions before use. If operating the vehicle 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 on page 10-6* for reservoir location.

⚠ Caution

- Do not use engine coolant (antifreeze) in the windshield washer. It can damage the windshield washer system and paint.
- 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 (Continued)

Caution (Continued)

expansion if freezing occurs, which could damage the tank if it is completely full.

Brakes

This vehicle has front disc brakes and could have rear drum brakes or rear disc brakes.

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 (Continued)

Warning (Continued)

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.

Some driving conditions or climates can cause a brake squeal when the brakes are first applied or lightly applied. This does not mean something is wrong with the brakes.

Properly torqued wheel nuts are necessary to help prevent brake pulsation. When tires are rotated, inspect brake pads for wear and evenly tighten wheel nuts in the proper sequence to torque specifications in *Capacities and Specifications on page 12-2*.

If the vehicle has rear drum brakes, they do not have wear indicators, but if a rear brake rubbing noise is heard, have the rear brake linings inspected immediately. Rear brake drums should be removed and inspected each time the tires are removed for rotation or changing. Drum brakes have an inspection hole to inspect lining wear during scheduled maintenance. When the front brake pads are replaced, have the rear brakes inspected, too.

Brake linings should always be replaced as complete axle sets.

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 might be required.

Brake Adjustment

Every moderate brake stop, the disc brakes adjust for wear. If rarely making moderate or heavier brake stops, the brakes might not adjust correctly. Very carefully making a few moderate brake stops about every 1 600 km (1,000 miles) will adjust the brakes properly.

If the vehicle has rear drum brakes and the brake pedal goes down farther than normal, the rear drum brakes might need adjustment. Adjust them by backing up and firmly applying the brakes a few times.

Replacing Brake System Parts

The braking system on a vehicle is complex. Its many parts have to be of top quality and work well together if the vehicle is to have really good braking. The vehicle was designed and tested with top-quality brake parts. When parts of the braking

system are replaced, be sure to get new, approved replacement parts. If this is not done, the brakes might not work properly. For example, installing disc brake pads that are wrong for the vehicle, can change the balance between the front and rear brakes — for the worse. The braking performance expected can change in many other ways if the wrong replacement brake parts are installed.

Brake Fluid

The brake master cylinder and, on manual transmission vehicles, the clutch hydraulic system use the same reservoir. See *Engine Compartment Overview on page 10-6* for the location of the reservoir. The reservoir is filled with either DOT 3 or DOT 4 brake fluid as indicated on the reservoir cap. The fluid level must be between the MIN and MAX marks.



There are only two reasons why the fluid level in the reservoir might go down:

- The fluid level goes down because of normal brake lining wear. When new linings are installed, the fluid level goes back up.
- A fluid leak in the brake/clutch hydraulic system can also cause a low fluid level. Have the brake/ clutch hydraulic system fixed, since a leak means that sooner or later the brakes will not work well.

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 fluid falls to a low level, the brake warning light comes on. See *Brake System Warning Light on page 5-16.*

What to Add

If the vehicle has DOT 3 brake fluid, as indicated on the reservoir cap, use only new DOT 3 brake fluid from a sealed container. See Recommended Fluids and Lubricants on page 11-11.

If the vehicle has DOT 4 brake fluid, as indicated on the reservoir cap, use only new DOT 4 brake fluid from a sealed container. See Recommended Fluids and Lubricants on page 11-11.

It is recommended that the brake/ clutch hydraulic system be flushed and refilled with new fluid at a regular maintenance service interval. See *Maintenance Schedule on page 11-2*. Always clean the brake/clutch fluid reservoir cap and the area around the cap before removing it. This helps keep dirt from entering the reservoir.

Marning

With the wrong kind of fluid in the brake/clutch hydraulic system, the brakes might not work well. This could cause a crash. Always use the proper brake/clutch fluid.

⚠ Caution

 Using the wrong fluid can badly damage brake/clutch hydraulic system parts. For example, just a few drops of mineral-based oil, such as engine oil, in the brake hydraulic system can damage brake hydraulic system parts so badly that they will have to be replaced. Do not let someone put in the wrong kind of fluid.

(Continued)

Caution (Continued)

 If brake fluid is spilled on the vehicle's painted surfaces, the paint finish can be damaged. Be careful not to spill brake fluid on the vehicle. If you do, wash it off immediately.

Battery

Refer to the replacement number on the original battery label when a new battery is needed.

⚠ Warning

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

Vehicle Storage

⚠ Warning

Batteries have acid that can burn you and gas that can explode. You can be badly hurt if you are not careful. See *Jump Starting on page 10-69* for tips on working around a battery without getting hurt.

Infrequent Usage: Remove the black, negative (-) cable from the battery to keep the battery from running down.

Extended Storage: Remove the black, negative (-) cable from the battery or use a battery trickle charger.

All-Wheel Drive

Transfer Case

Under normal driving conditions, transfer case fluid does not require changing or checking unless there is a fluid leak or unusual noise. If required, have the transfer case serviced by your dealer.

Starter Switch Check

Marning

When you are doing this inspection, the vehicle could move suddenly. If the vehicle moves, you or others could be injured.

 Before starting this check, be sure there is enough room around the vehicle.

- 2. Apply both the parking brake and the regular brake.
 - Do not use the accelerator pedal, and be ready to turn off the engine immediately if it starts.
- 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.

Automatic Transmission Shift Lock Control Function Check

⚠ Warning

When you are doing this inspection, the vehicle could move suddenly. If the vehicle moves, you or others could be injured.

- Before starting this check, be sure there is enough room around the vehicle. It should be parked on a level surface.
- Apply the parking brake. Be ready to apply the regular brake immediately if the vehicle begins to move.

 With the engine off, turn the ignition on, but do not start the engine. Without applying the regular brake, try to move the shift lever out of P (Park) with normal effort. If the shift lever moves out of P (Park), contact your dealer for service.

Ignition Transmission Lock Check

While parked and with the parking brake set, try to turn the ignition to LOCK/OFF in each shift lever position.

- The ignition should turn to LOCK/OFF only when the shift lever is in P (Park).
- The ignition key should come out only in LOCK/OFF.

Contact your dealer if service is required.

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. See *Maintenance Schedule on page 11-2*.

Replacement blades come in different types and are removed in different ways. For proper type and length, see *Maintenance* Replacement Parts on page 11-13.

⚠ Caution

Allowing the wiper arm to touch the windshield when no wiper blade is installed could damage (Continued)

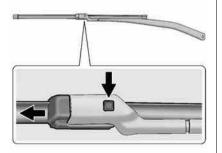
Caution (Continued)

the windshield. Any damage that occurs would not be covered by your warranty. Do not allow the wiper arm to touch the windshield.

Front Wiper Blade Replacement

To replace the front wiper blades:

 Lift the wiper arm from the windshield until no further movement is possible.



- Press the release button on the top side of the wiper and pull the wiper blade out of the end of the wiper arm.
- Install the wiper blade connector by sliding into the end of the wiper arm until the button on the wiper blade clicks into place with the wiper arm.
- Place the wiper arm with the wiper blade in place back on the windshield.

⚠ Caution

Damage may occur if the wiper blades are not in contact with the windshield before turning on the wiper system.

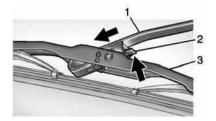
Rear Wiper Blade Replacement

The rear wiper blade and wiper arm have a cover for protection. The cover must be removed before the wiper blade can be replaced.

To remove the cover:



- Slide a plastic tool under the cover and push upward to unsnap.
- Slide the cover toward the wiper blade tip to unhook it from the blade assembly.
- 3. Remove the cover.
- After wiper blade replacement, ensure that the cover hook slides into the slot in the blade assembly.
- 5. Snap the cover down to secure.To replace the wiper blade:
- 1. Lift the wiper arm away from the windshield.



- Push the release lever (2) to disengage the hook and push the wiper arm (1) out of the blade assembly (3).
- Push the new blade assembly securely on the wiper arm until the release lever clicks into place.
- 4. Replace the wiper cover.

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, see *Replacement Bulbs on page 10-32*.

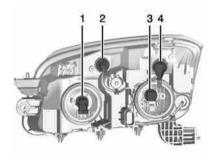
For any bulb-changing procedure not listed in this section, contact your dealer.

Halogen Bulbs

⚠ Warning

Halogen bulbs have pressurized gas inside and can burst if you drop or scratch the bulb. You or others could be injured. Be sure to read and follow the instructions on the bulb package.

Headlamps, Front Turn Signal and Parking Lamps

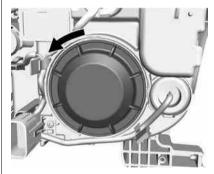


Driver Side Shown, Passenger Side Similar

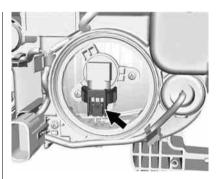
- 1. Low-Beam Headlamp
- 2. Turn Signal Lamp
- 3. High-Beam Headlamp
- 4. Parking Lamp

High-Beam Headlamp/ Low-Beam Headlamp

1. Open the hood. See *Hood on page 10-4*.



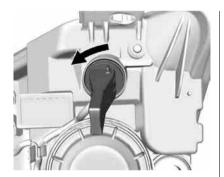
- 2. Remove the headlamp bulb access cover.
- Turn the bulb counterclockwise and pull straight back.



- Disconnect the wiring harness connector from the bulb.
- Install the new bulb in the headlamp assembly by turning clockwise.
- 6. Reconnect the wiring harness connector.
- 7. Install the headlamp bulb access cover.

Parking Lamp

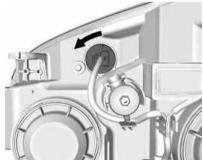
1. Open the hood. See *Hood on page 10-4*.



- Remove the parking lamp bulb socket from the headlamp assembly by turning counterclockwise.
- 3. Remove the bulb from the bulb socket by pulling it straight out.
- 4. Install the new bulb in the bulb socket.
- Install the bulb socket into the headlamp assembly by turning clockwise.

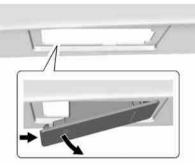
Turn Signal Lamp

1. Open the hood. See *Hood on page 10-4*.

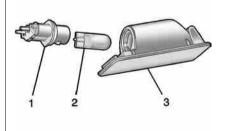


- Remove the turn signal lamp bulb socket from the headlamp assembly by turning counterclockwise.
- 3. Remove the bulb from the bulb socket by pulling it straight out.
- 4. Install the new bulb in the bulb socket.
- Install the bulb socket into the headlamp assembly by turning clockwise.

License Plate Lamp



Lamp Assembly



Bulb Assembly

To replace one of these bulbs:

- 1. Push the left end of the lamp assembly toward the right.
- 2. Turn the lamp assembly down to remove it.
- 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 (1).
- Push the replacement bulb straight into the bulb socket and turn the bulb socket clockwise to install it into the lamp assembly.
- Turn the lamp assembly into the lamp assembly opening engaging the clip side first.
- Push on the lamp side opposite the clip until the lamp assembly snaps into place.

Replacement Bulbs

Exterior Lamp	Bulb Number
Back-Up Lamp	921
Front Parking Lamp	7444NA
Front Turn Signal Lamp	7444NA
High-Beam Headlamp	9005LL
License Plate Lamp	W5W LL
Low-Beam Headlamp	H11 LL

For replacement bulbs not listed here, contact your dealer.

Electrical System

Electrical System Overload

The vehicle has fuses and circuit breakers to protect against an electrical system overload.

When the current electrical load is too heavy, the circuit breaker opens and closes, protecting the circuit until the current load returns to normal or the problem is fixed. This greatly reduces the chance of circuit overload and fire caused by electrical problems.

Fuses and circuit breakers 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, the same amperage fuse can be borrowed. Choose some feature of the vehicle that is not needed to use and replace it as soon as possible.

Headlamp Wiring

An electrical overload may cause the lamps to go on and off, or in some cases to remain off. Have the headlamp wiring checked right away if the lamps go on and off or remain off.

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 and Circuit Breakers

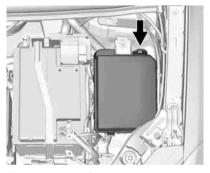
The wiring circuits in the vehicle are protected from short circuits by a combination of fuses and circuit breakers. This greatly reduces the chance of damage caused by electrical problems.

To check a fuse, 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.

To identify and check fuses, circuit breakers, and relays, see Engine Compartment Fuse Block on page 10-33, Instrument Panel Fuse Block on page 10-37, and Rear Compartment Fuse Block on page 10-39.

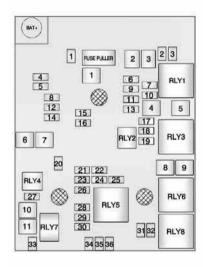
Engine Compartment Fuse Block



To remove the fuse block cover, squeeze the clip and lift it up.

⚠ Caution

Spilling liquid on any electrical component on the vehicle may damage it. Always keep the covers on any electrical component.



Mini Fuses	Usage
1	Sunroof
2	Outside Rearview Mirror Switch
3	Canister Vent Solenoid (1.4L Only)
4	Not Used
5	Electronic Brake Control Module Valve
6	Not Used
7	Not Used
8	Transmission Control Module Battery
9	Not Used
10	Fuel System Control Module R/C (1.4L Only)/Headlamp Leveling
11	Rear Wiper

Mini Fuses	Usage
12	Rear Window Defogger
13	Not Used
14	Outside Rearview Mirror Heater
15	Fuel System Control Module Battery (1.4L Only)
16	Heated Seat Module
17	Transmission Control Module R/C
18	Engine Control Module R/C
19	Fuel Pump (1.8L Only)
20	Not Used
21	Fan Relay (Auxiliary Fuse Block – 1.4L)/ Fan 3 Relay 85 (1.8L)
22	Cold Start Pump (1.8L Only)

Mini Fuses	Usage
23	Ignition Coil/Injectors
24	Washer Pump
25	Not Used
26	Canister Purge Solenoid/Water Valve Solenoid/ Oxygen Sensors – Pre and Post/Turbo Wastegate Solenoid (1.4L)/Turbo Bypass Solenoid (1.4L)/ IMTV Solenoid (1.8L)
27	Not Used
28	Not Used
29	Engine Control Module Powertrain Ignition 1/Ignition 2
30	Mass Air Flow Sensor
31	Left High-Beam Headlamp

Mini Fuses	Usage
32	Right High-Beam Headlamp
33	Engine Control Module Battery
34	Horn
35	Air Conditioning Compressor Clutch
36	Front Fog Lamps

J-Case Fuses	Usage
1	Electronic Brake Control Module Pump
2	Front Wiper
3	Blower Motor
4	IEC R/C
5	Not Used
6	Not Used
7	Not Used

J-Case Fuses	Usage
8	Cooling Fan Low/ Mid (1.4L)/Cooling Fan Low (1.8L)
9	Cooling Fan High
10	EVP
11	Starter Solenoid

U-Micro Relays	Usage
2	Fuel Pump (1.8L Only)
4	Spare

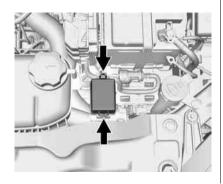
HC-Micro Relays	Usage
7	Starter

Mini Relays	Usage
1	Run Crank

Mini Relays	Usage
3	Cooling Fan Mid (1.4L Only)
5	Powertrain Relay
8	Cooling Fan Low

HC-Mini Relays	Usage
6	Cooling Fan High

Auxiliary Fuse Block



To remove the fuse block cover, squeeze the clips and lift it up.

⚠ Caution
Spilling liquid on any electrical component on the vehicle may
damage it. Always keep the
covers on any electrical component.
component.

RLY02	RLY01
RLY04	RLY03

Relays	Usage
01	Electric Vacuum Pump
02	Cooling Fan Control 1
03	Cooling Fan Control 2
04	Trailer (1.4L Only)

Instrument Panel Fuse Block



The instrument panel fuse block is on the underside of the driver side instrument panel. To access the fuses, remove the storage compartment. To remove the storage compartment, push in on both side and pull it out.

		F20	A	S4			_	
		F21	A/	S5				
F	F26 F22		A/	S6	A	/S1	5	
F	27		F23	A	S7	A	/S2	MO
F	28		CB1	A/	S8	A	/S3	
	S/B	07	_	1	F1	0		_
F29	0/0	٠,			F1	1		
	S/B	na	RLY0	1	F1	2	F	1
0	0,0	00		J	F1	3	F	2
F30				1	F1	4	F	3
	RLY	04	RLY02	2	F1	5	F	4
			F16		6	F	5	
	RLY05 RLY03		1	F1		F	6	
		RLY03 F18	F	_				
The state of the state of			F1	9	F	_		
	-31	1					F	9_
	32	S	/B03 S	/B0	2 S/E	301		
F	33 34	s	/B06 S	/B0	5 S/E	304	J	1

Mini Fuses	Usage
1	Body Control Module 1
2	Body Control Module 2
3	Body Control Module 3
4	Body Control Module 4
5	Body Control Module 5
6	Body Control Module 6
7	Body Control Module 7
8	Body Control Module 8
9	Discrete Logic Ignition Switch
10	Sensing Diagnostic Module Battery
11	Data Link Connector

10-38 Vehicle Care

Mini Fuses	Usage
12	Heater, Ventilation, and Air Conditioning MDL
13	Liftgate Relay
14	UPA Module
15	Inside Rearview Mirror
16	Not Used
17	Driver Power Window Switch
18	Rain Sensor
19	Body Control Module Regulated Voltage Control
20	Steering Wheel Switch Backlighting
21	A/C Accessory Power Outlet
22	Cigar Lighter/DC Accessory Power Outlet

Mini Fuses	Usage
23	Spare
24	Spare
25	Spare
26	Automatic Occupant Sensing Display
27	IPC/Compass Module
28	Headlamp Switch// DC Converter/Clutch Switch
29	Spare
30	Spare
31	IPC Battery
32	Radio/Chime
33	Display
34	OnStar (If Equipped)/VLBS

S/B Fuses	Usage
1	PTC 1
2	PTC 2
3	Power Window Motor Front
4	Power Window Motor Rear
5	Logistic Mode Relay
6	Spare
7	Front Power Windows
8	Rear Power Windows

Circuit Breaker	Usage
CB1	Spare

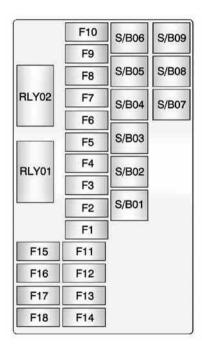
Midi Fuse	Usage
M01	PTC

Relays	Usage
01	Accessory/Retained Accessory Power
02	Liftgate
03	Spare
04	Blower Relay
05	Logistic Mode

Rear Compartment Fuse Block



The rear compartment fuse block is behind a cover on the left side of the rear compartment. To access the fuses, remove the cover.



10-40 Vehicle Care

Mini Fuses	Usage
1	Driver Seat Power Lumbar Switch
2	Passenger Seat Power Lumbar Switch
3	Amplifier
4	Trailer Socket
5	All-Wheel Drive Module
6	Automatic Occupant Sensing Module
7	Spare/LPG Module Battery
8	Trailer Parking Lamps
9	Spare
10	Spare/Side Blind Zone Alert Module
11	Trailer Module
12	Nav Dock

Mini Fuses	Usage
13	Heated Steering Wheel
14	Trailer Socket
15	EVP Switch
16	Water In Fuel Sensor
17	Inside Rearview Mirror/Regulated Voltage Control
18	Spare/LPG Module Run/Crank

S/B Fuses	Usage
1	Driver Power Seat Switch/Memory Module
2	Passenger Power Seat Switch
3	Trailer Module
4	A/C-D/C Inverter
5	Battery

S/B Fuses	Usage
6	Headlamp Washer
7	Spare
8	Spare
9	Spare

Relays	Usage
1	Ignition Relay
2	Run Relay

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 (Continued)

Warning (Continued)

- and a serious crash. See Vehicle Load Limits on page 9-10.
- 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.

(Continued)

Warning (Continued)

- Worn or old tires can cause a crash. If the tread is badly worn, replace them.
- 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.

All-Season Tires

This vehicle may come with all-season tires. These tires are designed to provide good overall performance on most road surfaces and weather conditions. Original equipment tires designed to GM's specific tire performance criteria have a TPC specification code molded onto the sidewall. Original equipment all-season tires can be identified by the last two characters of this TPC code, which will be "MS."

Consider installing winter tires on the vehicle if frequent driving on snow or ice-covered roads is expected. All-season tires provide adequate performance for most winter driving conditions, but they may not offer the same level of traction or performance as winter tires on snow or ice-covered roads. See *Winter Tires on page 10-42*.

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 on page 10-56*.

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.

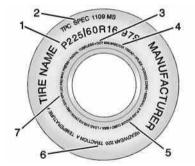
Winter tires with the same speed rating as the original equipment tires may not be available for H, V, W, Y, and ZR speed rated tires. If winter tires with a lower speed rating are chosen, never exceed the tire's maximum speed capability.

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. We recommend installing winter tires 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 on page 10-42*.

Tire Sidewall Labeling

Useful information about a tire is molded into its sidewall. The examples show a typical passenger vehicle tire and a compact spare 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.

- (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

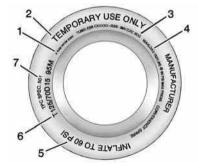
Manufacture: The last four digits of the TIN indicate the tire manufactured date. The first two

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 (Department of Transportation) 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 on page 10-58*.

(7) Maximum Cold Inflation Load Limit: Maximum load that can be carried and the maximum pressure needed to support that load.



Compact Spare Tire Example

(1) Tire Ply Material: The type of cord and number of plies in the sidewall and under the tread.

- (2) Temporary Use Only: The compact spare tire or temporary use tire should not be driven at speeds over 80 km/h (50 mph). The compact spare tire is for emergency use when a regular road tire has lost air and gone flat. If the vehicle has a compact spare tire, see Compact Spare Tire on page 10-67 and If a Tire Goes Flat on page 10-61.
- (3) Tire Identification Number (TIN): The letters and numbers following the DOT (Department of Transportation) 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.

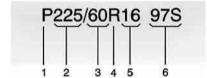
- (4) Maximum Cold Inflation Load Limit: Maximum load that can be carried and the maximum pressure needed to support that load.
- (5) Tire Inflation: The temporary use tire or compact spare tire should be inflated to 420 kPa (60 psi). For more information on tire pressure and inflation see *Tire Pressure on page 10-48*.
- **(6) Tire Size:** A combination of letters and numbers define a tire's width, height, aspect ratio, construction type, and service description. The letter T as the first character in the tire size means the tire is for temporary use only.
- (7) TPC Spec (Tire Performance CriteriaSpecification): 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.

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* on page 10-48.

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* on page 9-10.

GAWR FRT: Gross Axle Weight Rating for the front axle. See *Vehicle Load Limits on* page 9-10.

GAWR RR: Gross Axle Weight Rating for the rear axle. See *Vehicle Load Limits on page 9-10*.

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 on page 9-10*.

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 on page 10-48 and
Vehicle Load Limits on
page 9-10.

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 on page 10-55.

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 on page 10-58.

Vehicle Capacity Weight: The number of designated seating positions multiplied by 68 kg (150 lb) plus the rated cargo load. See Vehicle Load Limits on page 9-10.

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 on page 9-10.

Tire Pressure

Tires need the correct amount of air pressure to operate effectively.

⚠ Caution

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.
- 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 on page 9-10.

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 tires once a month or more. Do not forget to check the spare tire. If the vehicle has a compact spare tire, it should be at 420 kPa (60 psi). See

Compact Spare Tire on page 10-67 and Full-Size Spare Tire on page 10-68 for additional information.

How to Check

Use a good quality pocket-type gauge to check 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 a 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.

Return the valve caps on the valve stems to prevent leaks and keep out dirt and moisture.

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 on page 10-50.

See Radio Frequency Statement on page 13-11.

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, excluding the spare tire and wheel assembly. 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 on 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 and Loading Information label. See *Vehicle Load Limits on page 9-10*.

A message to check the pressure in a specific tire may display in the Driver Information Center (DIC). The low tire pressure warning light and the DIC warning message, if equipped, come on at each ignition cycle until the tires are inflated to the correct inflation pressure. Using the DIC, it may be possible to view the tire pressure levels. For additional information and details about the DIC operation and displays, see *Driver Information Center (DIC) on page 5-23*.

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 on page 9-10*, for an example of the Tire and Loading Information label and its location. Also see *Tire Pressure on page 10-48*.

The TPMS can warn about a low tire pressure condition, but it does not replace normal tire maintenance. See *Tire Inspection on page 10-54*, *Tire Rotation on page 10-54*, and *Tires on page 10-41*.

⚠ 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.

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, defined above, flashes for about one minute and then stays on for the remainder of the ignition cycle. A DIC warning message may also display. The malfunction light and DIC warning message, if equipped, come on at each ignition cycle until the problem is corrected. Some of the conditions that can cause these to come on are:

 One of the road tires has been replaced with the spare tire. The spare tire does not have a TPMS sensor. The malfunction light and the DIC message, if equipped, should go off after the road tire is replaced and the sensor matching process is performed successfully. See "TPMS Sensor Matching Process" later in this section.

- The TPMS sensor matching process was not done or not completed successfully after rotating the tires. The malfunction light and the DIC message, if equipped, should go off after successfully completing the sensor matching process.
 See "TPMS Sensor Matching Process" later in this section.
- One or more TPMS sensors are missing or damaged. The malfunction light and the DIC message, if equipped, should go off when the TPMS sensors are installed and the sensor matching process is performed successfully. See your dealer for service.
- 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 on page 10-56.

 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 condition. See your dealer for service if the TPMS malfunction light and DIC message, if equipped, come on and stay on.

TPMS Sensor Matching Process

Each TPMS sensor has a unique identification code. The identification code needs to be matched to a new tire/wheel position after rotating the vehicle's tires or replacing one or more of the TPMS sensors. Also, the TPMS sensor matching process should be performed after replacing a spare tire with a road tire containing the TPMS sensor. The malfunction light and the DIC message, if equipped, should go off at the next ignition cycle. The sensors are matched to the tire/

wheel positions, using a TPMS relearn tool, in the following order: driver side front tire, passenger side front tire, passenger side rear tire, and driver side rear. See your dealer for service or to purchase a relearn tool. A TPMS relearn tool can also be purchased. See Tire Pressure Monitor Sensor Activation Tool at www.gmtoolsandequipment.com or call 1-800-GM TOOLS

There are two minutes to match the first tire/wheel position, and five minutes overall to match all four tire/wheel positions. If it takes longer, the matching process stops and must be restarted.

The TPMS sensor matching process is:

1. Set the parking brake.

(1-800-468-6657).

2. Turn the ignition to ON/RUN with the engine off.

- Use the MENU button to select the Vehicle Information Menu (Menu 2) in the Driver Information Center (DIC).
- Use the thumbwheel (or up and down arrows) to scroll to the Tire Pressure Menu Item screen.
- Press and hold the SET/CLR button to begin the sensor matching process.
 - A message requesting acceptance of the process may display.
- If requested, press the SET/CLR button again to confirm the selection.
 - The horn sounds twice to signal the receiver is in relearn mode and the TIRE LEARN or TIRE LEARNING ACTIVE message displays on the DIC screen.
- 7. Start with the driver side front tire.
- 8. Place the relearn tool against the tire sidewall, near the valve stem. Then press the button to

- activate the TPMS sensor. A horn chirp confirms that the sensor identification code has been matched to this tire and wheel position.
- Proceed to the passenger side front tire, and repeat the procedure in Step 8.
- Proceed to the passenger side rear tire, and repeat the procedure in Step 8.
- 11. Proceed to the driver side rear tire, and repeat the procedure in Step 8. The horn sounds two times to indicate the sensor identification code has been matched to the driver side rear tire, and the TPMS sensor matching process is no longer active. The TIRE LEARN or TIRE LEARNING ACTIVE message on the DIC display screen goes off.
- 12. Turn the ignition to LOCK/OFF.

 Set all four tires to the recommended air pressure level as indicated on the Tire and Loading Information label.

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.

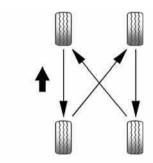
Tire Rotation

Tires should be rotated every 12 000 km (7,500 mi). See *Maintenance Schedule on page 11-2*.

Tires are rotated to achieve a 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 on page 10-55 and Wheel Replacement on page 10-60.



Use this rotation pattern when rotating the tires.

Do not include the spare tire in the tire rotation.

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 on page 10-48* and *Vehicle Load Limits on* page 9-10.

Reset the Tire Pressure Monitor System. See *Tire Pressure Monitor Operation on* page 10-50.

Check that all wheel nuts are properly tightened. See "Wheel Nut Torque" under Capacities and Specifications on page 12-2.

Marning

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 an accident. When changing a wheel, remove any rust or dirt from places where the (Continued)

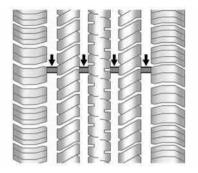
Warning (Continued)

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 on page 10-54* and *Tire Rotation on page 10-54*.

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 on page 10-43*.

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 on page 10-54. 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, Y and ZR speed rated tires. Never exceed the winter tires' maximum speed capability when using winter tires with a lower speed rating.

Marning

Tires could explode during improper service. Attempting to mount or dismount a tire could cause injury or death. Only your dealer or authorized tire service center should mount or dismount the tires.

Marning

Mixing tires of different sizes, 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 tires on all wheels.

Marning

Using bias-ply tires on the vehicle may cause the wheel rim flanges to develop cracks 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 System on page 10-49*.

The Tire and Loading Information label indicates the original equipment tires on the vehicle. See *Vehicle Load Limits* on page 9-10.

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.

Marning

If different sized wheels are used, there may not be an acceptable level of performance and safety if 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 on page 10-56 and Accessories and Modifications on page 10-2.

Uniform Tire Quality Grading

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

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.

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 or the vehicle is significantly pulling to one side or the other. Some slight pull to the left or right, depending on the crown of the road and/or other road

surface variations such as troughs or ruts, is normal. 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.

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, wheel nuts, or Tire Pressure Monitor System (TPMS) sensors 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.

↑ Caution

The wrong wheel can also cause problems with bearing life, brake cooling, speedometer or odometer calibration, headlamp aim, bumper height, vehicle

(Continued)

Caution (Continued)

ground clearance, and tire or tire chain clearance to the body and chassis.

Used Replacement Wheels

⚠ 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.

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 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 slow 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 front tires.

If a Tire Goes Flat

It is unusual for a tire to blow out while driving, especially if the tires are maintained properly. See Tires on page 10-41. If air goes out of a tire, it is much more likely to leak out slowly. 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.

⚠ 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.

⚠ Warning

Lifting a vehicle and getting under it to do maintenance or repairs is dangerous without the appropriate safety equipment and training. If a jack is provided with the vehicle, it is designed only for

(Continued)

Warning (Continued)

changing a flat tire. If it is used for anything else, you or others could be badly injured or killed if the vehicle slips off the jack. If a jack is provided with the vehicle, only use it for changing a flat tire.

If 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 on page 6-3*.

Marning

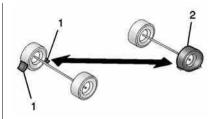
Changing a tire can be dangerous. The vehicle can slip off the jack and roll over or fall causing injury or death. Find a level place to change the tire. To help prevent the vehicle from moving:

(Continued)

Warning (Continued)

- 1. Set the parking brake firmly.
- Put an automatic transmission in P (Park) or a manual transmission in 1 (First) or R (Reverse).
- Turn off the engine and do not restart while the vehicle is raised.
- 4. Do not allow passengers to remain in the vehicle.
- Place wheel blocks on both sides of the tire at the opposite corner of the tire being changed.

When the vehicle has a flat tire (2), use the following example as a guide to assist in the placement of the wheel blocks (1).



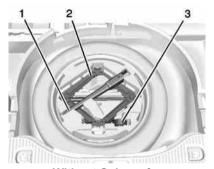
- 1. Wheel Block
- 2. Flat Tire

The following information explains how to repair or change a tire.

Tire Changing

Removing the Spare Tire and Tools

The spare tire and tools are located in the storage compartment in the rear of the vehicle.



Without Subwoofer

- 1. Wrench
- 2. Jack
- 3. Strap



With Subwoofer

To access the spare tire and tools:

- 1. Open the liftgate. See *Liftgate* on page 2-9.
- 2. Lift the trim cover.
- If the vehicle has a subwoofer assembly on top of the spare tire, remove it by turning the center retainer counterclockwise.
- If the vehicle does not have a subwoofer, turn the retainer counterclockwise to remove the spare tire.

Remove the spare tire, jack, and tools and place them near the tire being changed.

Removing the Flat Tire and Installing the Spare Tire

 Do a safety check before proceeding. See If a Tire Goes Flat on page 10-61.



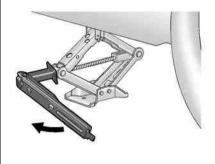
Remove the wheel cover, if the vehicle has one, to reach the wheel holts.



 Turn the wheel wrench counterclockwise to loosen the wheel nuts. Do not remove them yet.



4. Place the jack at the position marked with a half circle.



- 5. Place the hex tube end of the wrench over the hex head of the jack to attach it.
- 6. Turn the wheel wrench clockwise until the lift head is firmly contacting the proper lifting point nearest the flat tire.

⚠ 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 and even make the vehicle fall. To help (Continued)

Warning (Continued)

avoid personal injury and vehicle damage, be sure to fit the jack lift head into the proper location before raising the vehicle.

Marning

Lifting a vehicle and getting under it to do maintenance or repairs is dangerous without the appropriate safety equipment and training. If a jack is provided with the vehicle, it is designed only for changing a flat tire. If it is used for anything else, you or others could be badly injured or killed if the vehicle slips off the jack. If a jack is provided with the vehicle, only use it for changing a flat tire.

- Turn the wheel wrench clockwise to raise the vehicle far enough off the ground so there is enough room for the spare tire to fit underneath the wheel well.
- 8. Turn the wheel nuts counterclockwise to remove them.
- 9. Remove the flat tire.

⚠ 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 an accident. 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.



- Remove any rust or dirt from the wheel bolts, mounting surfaces, and spare wheel.
- 11. Place the spare tire on the wheel-mounting surface.

⚠ Warning

Never use oil or grease on bolts or nuts because the nuts might come loose. The vehicle's wheel could fall off, causing a crash.

- Reinstall the wheel nuts. Turn each nut clockwise, by hand, until the wheel is held against the hub.
- Lower the vehicle by turning the wheel wrench counterclockwise. Lower the jack completely.

Marning

Wheel nuts that are improperly or incorrectly tightened can cause the wheels to become loose or come off. The wheel nuts should be tightened with a torque wrench to the proper torque specification after replacing. Follow the torque specification supplied by the aftermarket manufacturer when using accessory locking wheel nuts. See *Capacities and Specifications on page 12-2* for original equipment wheel nut torque specifications.

⚠ 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. See Capacities and Specifications on page 12-2 for the wheel nut torque specification.



 Tighten the wheel nuts firmly with the wheel wrench in a crisscross sequence, as shown.

⚠ Caution

Wheel covers will not fit on the vehicle's compact spare. If you try to put a wheel cover on the compact spare, the cover or the spare could be damaged.

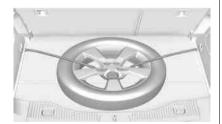
Storing a Flat or Spare Tire and Tools

⚠ Warning

Storing a jack, a tire, 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 all these in the proper place.

Storing the Flat Tire and Tools

- 1. Return the jack and tools to their original storage location.
- 2. Replace the trim cover.
- 3. Place the flat tire, lying flat, in the rear storage compartment.
- Attach one end of the strap to a cargo tie-down in the rear of the vehicle.



- 5. Route the strap through the wheel, as shown.
- 6. Attach the other end of the strap to the other cargo tie-down in the rear of the vehicle.
- 7. Tighten the strap.

Storing the Compact Spare Tire and Tools

Reverse the instructions for removing the spare tire and tools to store the spare tire.

The compact spare tire is for temporary use only. Replace the compact spare tire with a full-size tire as soon as you can. See Compact Spare Tire on page 10-67.

Compact Spare Tire

⚠ Warning

Driving with more than one compact spare tire at a time could result in loss of braking and handling. This could lead to a crash and you or others could be injured. Use only one compact spare tire at a time.

If this vehicle has a compact spare tire, it was fully inflated when new; however, it can lose air over time. Check the inflation pressure regularly. It should be 420 kPa (60 psi).

Stop as soon as possible and check that the spare tire is correctly inflated after being installed on the vehicle. The compact spare tire is designed for temporary use only. The vehicle will perform differently with the spare tire installed and it is recommended that the vehicle speed be limited to 80 km/h (50 mph). To conserve the tread of the spare tire, have the standard tire repaired or replaced as soon as convenient and return the spare tire to the storage area.

When using a compact spare tire, the ABS and Traction Control systems may engage until the spare tire is recognized by the vehicle, especially on slippery roads. Adjust driving to reduce possible wheel slip.

⚠ Caution

When the compact spare is installed, do not take the vehicle through an automatic car wash with guide rails. The compact spare can get caught on the rails which can damage the tire, wheel, and other parts of the vehicle.

Do not use the compact spare on other vehicles.

Do not mix the compact spare tire or wheel with other wheels or tires. They will not fit. Keep the spare tire and its wheel together.

⚠ Caution

Tire chains will not fit the compact spare. Using them can damage the vehicle and the chains. Do not use tire chains on the compact spare.

Full-Size Spare Tire

If this vehicle came with a full-size spare tire, it was fully inflated when new, however, it can lose air over time. Check the inflation pressure regularly. See *Tire Pressure on page 10-48* and *Vehicle Load Limits on page 9-10* for information regarding proper tire inflation and loading the vehicle. For instructions on how to remove, install, or store a spare tire, see *Tire Changing on page 10-62*.

After installing the spare tire on the vehicle, stop as soon as possible and check that the spare is correctly inflated. The spare tire is made to perform well at speeds up to 112 km/h (70 mph) at the recommended inflation pressure, so you can finish your trip.

Have the damaged or flat road tire repaired or replaced and installed back onto the vehicle as soon as possible so the spare tire will be available in case it is needed again. Do not mix tires and wheels of different sizes, because they will not fit. Keep the spare tire and its wheel together.

Jump Starting

For more information about the vehicle battery, see *Battery on page 10-25*.

If the battery has run down, try to use another vehicle and some jumper cables to start your vehicle. Be sure to use the following steps to do it safely.

Marning

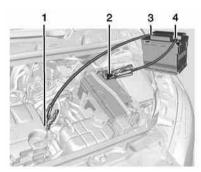
Batteries can hurt you. They can be dangerous because:

- 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.



1.4L L4 Engine Shown, 1.8L L4 Engine Similar

 Discharged Battery Negative Grounding Point

- Discharged Battery Positive Terminal
- 3. Good Battery Negative Terminal
- 4. Good Battery Positive Terminal

The jump start negative grounding point (1) for the discharged battery is the engine block or an engine mounting bolt. Connect to a spot as far away from the discharged battery as possible.

The jump start positive terminal on the discharged battery (2) is located in the engine compartment on the driver side of the vehicle.

The jump start positive terminal (4) and negative terminal (3) are on the battery of the vehicle providing the jump start.

The positive jump start connection for the discharged battery is under a trim cover. Open the cover to expose the terminal.

 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. Position the two vehicles so that they are not touching.
- 3. Set the parking brake firmly and put the shift lever in P (Park) with an automatic transmission, or Neutral with a manual transmission. See *Shifting Into Park on page 9-19* with an automatic transmission, or *Parking on page 9-22* with a manual transmission.

⚠ 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.

 Turn the ignition to LOCK/OFF. Turn off all lights and accessories in both vehicles, except the hazard warning flashers if needed.

⚠ Warning

An electric fan can start up even when the engine is not running and can injure you. Keep hands, clothing and tools away from any underhood electric fan.

⚠ Warning

Using a match near a battery can cause battery gas to explode. People have been hurt doing this, and some have been blinded. Use a flashlight if you need more light.

Be sure the battery has enough water. You do not need to add water to the battery installed in your new vehicle. But if a battery has filler caps, be sure the right amount of fluid is there. If it is low, add water to take care of that first. If you do not, explosive gas could be present.

Battery fluid contains acid that can burn you. Do not get it on you. If you accidentally get it in your eyes or on your skin, flush the place with water and get medical help immediately.

⚠ Warning

Fans or other moving engine parts can injure you badly. Keep your hands away from moving parts once the engine is running.

- Connect one end of the red positive (+) cable to the positive (+) terminal on the discharged battery.
- Connect the other end of the red positive (+) cable to the positive (+) terminal of the good battery.
- Connect one end of the black negative (–) cable to the negative (–) terminal of the good battery.
- Connect the other end of the black negative (–) cable to the negative (–) grounding point for the discharged battery.

- Start the engine in the vehicle with the good battery and run the engine at idle speed for at least four minutes.
- 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.

Towing

Towing the Vehicle

⚠ Caution

Incorrectly towing a disabled vehicle may cause damage. The damage would not be covered by the vehicle warranty.

Have the vehicle towed on a flatbed car carrier or a wheel lift tow truck. If a wheel lift tow truck is used, the drive wheels cannot contact the road while the vehicle is being towed. A wheel dolly must be used to lift all drive wheels off the ground.

⚠ Caution

Improper use of the tow eye can cause vehicle damage. Use caution and low speeds to prevent damage to the vehicle.

If equipped, carefully open the cover by using the small notch that conceals the tow eye socket.

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.

Consult your dealer or a professional towing service if the disabled vehicle must be towed.

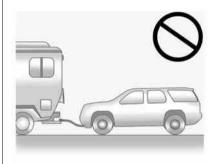
Recreational Vehicle Towing

Recreational vehicle towing means towing the vehicle behind another vehicle, such as behind a motor home. The two most common types of recreational vehicle towing are known as dinghy towing and dolly towing. Dinghy towing is towing the vehicle with all four wheels on the ground. Dolly towing is towing the vehicle with two wheels on the ground and two wheels up on a device known as a dolly.

Here are some important things to consider before recreational vehicle towing:

- What is the towing capacity of the towing vehicle? Be sure to read the tow vehicle manufacturer's recommendations.
- What is the distance that will be traveled? Some vehicles have restrictions on how far and how long they can tow.
- Is the proper towing equipment going to be used? See your dealer or trailering professional for additional advice and equipment recommendations.
- Is the vehicle ready to be towed? Just as preparing the vehicle for a long trip, make sure the vehicle is prepared to be towed.

Dinghy Towing

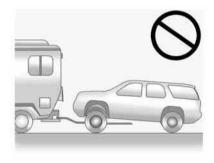


⚠ Caution

If the vehicle is towed with all four wheels on the ground, the drivetrain components could be damaged. The repairs would not be covered by the vehicle warranty. Do not tow the vehicle with all four wheels on the ground.

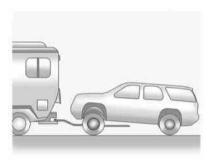
The vehicle was not designed to be towed with all four wheels on the ground.

Dolly Towing (All-Wheel-Drive Vehicles)



All-wheel-drive vehicles must not be towed with two wheels on the ground. To properly tow these vehicles, they should be placed on a platform trailer with all four wheels off of the ground.

Dolly Towing (Front-Wheel-Drive Vehicles Only)

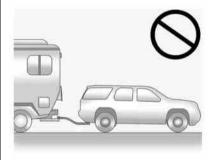


To tow a front-wheel-drive vehicle from the front with two wheels on the ground:

- 1. Put the front wheels on a dolly.
- 2. Move the shift lever to P (Park).
- Set the parking brake.
- Clamp the steering wheel in a straight-ahead position with a clamping device designed for towing.

- 5. Remove the key from the ignition.
- 6. Secure the vehicle to the dolly.
- 7. Release the parking brake.

Towing the Vehicle from the Rear





⚠ Caution

Towing the vehicle from the rear could damage it. Also, repairs would not be covered by the vehicle warranty. Never have the vehicle towed from the rear.

Do not tow the vehicle from the rear.

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 on page 11-11.

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

(Continued)

Caution (Continued)

products can be obtained from 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.

The symbol is on any underhood compartment electrical center that should not be power

washed. This could cause damage that would not be covered by the vehicle warranty.

If using an automatic car wash, follow the car wash instructions. The windshield wiper and rear window wiper, if equipped, must be off. Remove any accessories that may be damaged or interfere with the car wash equipment.

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.

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 (Continued)

Caution (Continued)

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 or 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 a cleaning solution approved for aluminum or 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 chrome cleaners.
- 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.

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 when 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 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 a 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 Dielectric silicone grease on weatherstrips to make them last longer, seal better, and not stick or squeak. Lubricate weatherstrips at least once a year. Hot, dry climates may 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 on page 11-11.

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/ or tires. When applying a tire dressing, always wipe off any overspray from all painted surfaces on the vehicle.

Wheels and Trim — Aluminum or Chrome

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 other chrome trim may be damaged if the vehicle is not washed after driving on roads that have been sprayed with magnesium, calcium, or sodium chloride. These chlorides are used on roads for conditions such as ice and dust. Always wash the chrome with soap and water after exposure.

⚠ Caution

To avoid surface damage, do not use strong soaps, chemicals, abrasive polishes, cleaners, brushes, or cleaners that contain acid on aluminum or chrome-plated wheels. Use only approved cleaners. Also, never drive a vehicle with aluminum or chrome-plated wheels through an (Continued)

Caution (Continued)

automatic car wash that uses silicone carbide tire cleaning brushes. Damage could occur and the repairs would not be covered by the vehicle warranty.

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, liftgate hinges, steel fuel door hinge, 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.

Sheet Metal 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 to avoid corrosion. 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. Note that newspapers or dark garments that can transfer color to home furnishings can also permanently 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.

Your dealer may have products for cleaning the interior. 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 directly on any switches or controls. Cleaners should be removed quickly. Never allow cleaners to remain on the surface being cleaned for extended periods of time

Cleaners may contain solvents that can become concentrated in the interior. Before using cleaners, read and adhere to all safety instructions on the label. While cleaning the interior, maintain adequate ventilation by opening the doors and windows.

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 a soil from any interior surface.
- Never use a brush with stiff bristles.
- Never rub any surface aggressively or with excessive 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 leave a residue that creates streaks and attracts 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. Commercial glass cleaners may be used, if necessary, after cleaning the interior glass 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 just 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 brush attachment is being used during vacuuming, only use it on the floor carpet. Before cleaning, gently remove as much of the soil as possible using one of the following techniques:

- 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:

- Saturate a clean lint-free colorfast cloth with water. Microfiber cloth is recommended to prevent lint transfer to the fabric or carpet.
- Remove excess moisture by gently wringing until water does not drip from the cleaning cloth.
- 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.
- Continue gently rubbing the soiled area until there is no longer any color transfer from the soil to the cleaning cloth.
- 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.

Following the cleaning process, a paper towel can be used to blot excess moisture.

Cleaning High Gloss Surfaces and Vehicle Information and Radio Displays

For vehicles with high gloss surfaces or vehicle displays, use a microfiber cloth to wipe surfaces. Before wiping the surface with the microfiber cloth, use a soft bristle brush to remove dirt that could scratch the surface. Then use the microfiber cloth by gently rubbing to clean. 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 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, (Continued)

Caution (Continued)

may cause permanent damage. Wipe excess moisture from these surfaces after cleaning and allow them to dry naturally. Never use heat, steam, spot lifters, or spot removers. Do not use cleaners that contain silicone or wax-based products. Cleaners containing these solvents can permanently change 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

Wash with warm water and mild detergent. Do not use chlorine bleach. Rinse with cold water, and then dry completely.

Care of Safety Belts

Keep belts clean and dry.

Marning

Do not bleach or dye safety belts. It may severely weaken them. In a crash, they might not be able to provide adequate protection. Clean safety belts only with mild soap and lukewarm water.

Floor Mats

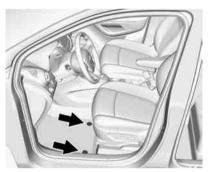
⚠ Warning

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.
- 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 driver side floor mat is held in place by a button-type retainer.



Removing and Replacing the Floor Mats

- Pull up on the rear of the floor mat to unlock the retainers and remove.
- Reinstall by lining up the floor mat retainer openings over the carpet retainers and snap into position.
- Make sure the floor mat is properly secured and verify that it does not interfere with the pedals.

Service and Maintenance

General Information General Information
Maintenance Schedule Maintenance Schedule 11-2
Special Application Services Special Application Services
Additional Maintenance and Care Additional Maintenance and Care
Recommended Fluids, Lubricants, and Parts Recommended Fluids and Lubricants
Maintenance Records Maintenance Records 11-14

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.

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 on page 9-10.
- Are driven on reasonable road surfaces within legal driving limits.
- Use the recommended fuel. See Fuel on page 9-40.

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.

Marning

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 on page 10-3*.

Maintenance Schedule

Owner Checks and Services

At Each Fuel Stop

• Check the engine oil level. See Engine Oil on page 10-9.

Once a Month

- Check the tire inflation pressures. See Tire Pressure on page 10-48.
- Inspect the tires for wear. See Tire Inspection on page 10-54.
- Check the windshield washer fluid level. See Washer Fluid on page 10-21.

Engine Oil Change

When the *** % CHANGE (Change Engine Oil Soon) DIC 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 on page 10-11.

Tire Rotation and Required Services Every 12 000 km/ 7,500 mi

Rotate the tires, if recommended for the vehicle, and perform the following services. See *Tire Rotation on page 10-54*.

 Check engine oil level and oil life percentage. If needed, change engine oil and filter, and reset oil life system. See Engine Oil on page 10-9 and Engine Oil Life System on page 10-11.

- Check engine coolant level. See Engine Coolant on page 10-16.
- Check engine cooling system hoses and connections.
- Check windshield washer fluid level. See Washer Fluid on page 10-21.
- Visually inspect windshield wiper blades for wear, cracking, or contamination. See Exterior Care on page 10-74. Replace worn or damaged wiper blades. See Wiper Blade Replacement on page 10-27.
- Check tire inflation pressures. See Tire Pressure on page 10-48.
- Inspect tire wear. See Tire Inspection on page 10-54.
- Visually check for fluid leaks.
- Inspect engine air cleaner filter.
 See Engine Air Cleaner/Filter on page 10-13.
- Inspect brake system.

- Visually inspect steering, suspension, and chassis components for damaged, loose, or missing parts or signs of wear. See Exterior Care on page 10-74.
- Check restraint system components. See Safety System Check on page 3-25.
- 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 on page 10-74.
- Check starter switch. See Starter Switch Check on page 10-26.
- Check automatic transmission shift lock control function. See Automatic Transmission Shift Lock Control Function Check on page 10-26.
- Check ignition transmission lock.
 See Ignition Transmission Lock
 Check on page 10-27.

11-4 Service and Maintenance

- Check parking brake and automatic transmission park mechanism. See Park Brake and P (Park) Mechanism Check on page 10-27.
- 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. See your dealer if service is required.
- Inspect sunroof track and seal, if equipped. See Sunroof on page 2-16.

Maintenance Schedule Additional Required Services - Normal	12 000 km/7,500 mi	24000 km/15,000 mi	36 000 km/22,500 mi	48 000 km/30,000 mi	60 000 km/37,500 mi	72000 km/45,000 mi	84 000 km/52,500 mi	96 000 km/60,000 mi	108 000 km/67,500 mi	120 000 km/75,000 mi	132 000 km/82,500 mi	144 000 km/90,000 mi	156 000 km/97,500 mi	168 000 km/105,000 mi	180 000 km/112,500 mi	192 000 km/120,000 mi	204 000 km/127,500 mi	216 000 km/135,000 mi	228 000 km/142,500 mi	240 000 km/150,000 mi
Rotate tires and perform Required Services. Check engine oil level and oil life percentage. Change engine oil and filter, if needed.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Replace passenger compartment air filter. (1)			✓			✓			✓			✓			✓			✓		
Inspect evaporative control system. (2)						✓						✓						✓		
Replace engine air cleaner filter. (3)						✓						✓						√		
Replace spark plugs (1.8L Engine). Inspect spark plug wires.													✓							
Replace spark plugs (1.4L Turbo Engine). Inspect spark plug wires.					✓					✓					✓					✓
Drain and fill engine cooling system. (4)																				\checkmark
Visually inspect accessory drive belts. (5)				✓				✓				✓				✓				✓
Replace brake/clutch fluid. (6)						✓						✓						✓		

11-6 Service and Maintenance

Footnotes — Maintenance Schedule Additional Required Services - Normal

- (1) Or every two years, whichever comes first. More frequent replacement may be needed if the vehicle is driven in areas with heavy traffic, areas with poor air quality, or areas with high dust levels. Replacement may also be needed if there is a reduction in air flow, excessive window fogging, or odors.
- (2) Check all fuel and vapor lines and hoses for proper hook-up, routing, and condition.

- (3) Or every four years, whichever comes first.
- (4) Or every five years, whichever comes first. See *Cooling System on page 10-15*.
- (5) Or every two years, whichever comes first. Inspect for fraying, excessive cracking, or damage; replace, if needed.
- **(6)** Or every three years, whichever comes first.

Maintenance Schedule Additional Required Services - Severe	12 000 km/7,500 mi	24 000 km/15,000 mi	36 000 km/22,500 mi	48 000 km/30,000 mi	60 000 km/37,500 mi	72 000 km/45,000 mi	84 000 km/52,500 mi	96 000 km/60,000 mi	108 000 km/67,500 mi	120 000 km/75,000 mi	132 000 km/82,500 mi	144 000 km/90,000 mi	156 000 km/97,500 mi	168 000 km/105,000 mi	180 000 km/112,500 mi	192 000 km/120,000 mi	204 000 km/127,500 mi	216 000 km/135,000 mi	228 000 km/142,500 mi	240 000 km/150,000 mi
Rotate tires and perform Required Services. Check engine oil level and oil life percentage. Change engine oil and filter, if needed.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Replace passenger compartment air filter. (1)			√			√			✓			✓			✓			✓		
Inspect evaporative control system. (2)						✓						✓						✓		
Replace engine air cleaner filter. (3)						✓						✓						✓		
Replace spark plugs (1.8L Engine). Inspect spark plug wires.													✓							
Replace spark plugs (1.4L Turbo Engine). Inspect spark plug wires.					✓					✓					✓					✓
Change automatic transmission fluid.						✓						✓						✓		
Change manual transmission fluid (If equipped).						✓						✓						✓		
Drain and fill engine cooling system. (4)																				✓
Visually inspect accessory drive belts. (5)				✓				✓				✓				✓				√
Replace brake/clutch fluid. (6)						✓						✓						✓		

Footnotes — Maintenance Schedule Additional Required Services - Severe

- (1) Or every two years, whichever comes first. More frequent replacement may be needed if the vehicle is driven in areas with heavy traffic, areas with poor air quality, or areas with high dust levels. Replacement may also be needed if there is a reduction in air flow, excessive window fogging, or odors.
- (2) Check all fuel and vapor lines and hoses for proper hook-up, routing, and condition.
- (3) Or every four years, whichever comes first.
- (4) Or every five years, whichever comes first. See *Cooling System on page 10-15*.
- (5) Or every two years, whichever comes first. Inspect for fraying, excessive cracking, or damage; replace, if needed.
- (6) Or every three years, whichever comes first.

Special Application Services

- Severe Commercial Use Vehicles Only: Lubricate chassis components every 5 000 km/ 3,000 mi.
- Have underbody flushing service performed. See "Underbody Maintenance" in Exterior Care on page 10-74.

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 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 on page 11-11 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 on page 10-78* and *Exterior Care on page 10-74*.

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

Usage	Fluid/Lubricant
Engine Oil	Use only engine oil licensed to the dexos1® specification of the proper SAE viscosity grade. ACDelco dexos1 Synthetic Blend is recommended. See <i>Engine Oil on page 10-9</i> .
Engine Coolant	50/50 mixture of clean, drinkable water and use only DEX-COOL [®] Coolant. See <i>Engine Coolant on page 10-16</i> .
Hydraulic Brake/Clutch System (Vehicles with DOT 3 brake fluid)	DOT 3 Hydraulic Brake Fluid (GM Part No. 19299818, in Canada 19299819).
Hydraulic Brake/Clutch System (Vehicles with DOT 4 brake fluid)	DOT 4 Hydraulic Brake Fluid (GM Part No. 19299570, in Canada 19299571).
Windshield Washer	Automotive windshield washer fluid that meets regional freeze protection requirements.
Hydraulic Power Steering System	DEXRON®-VI Automatic Transmission Fluid.
Automatic Transmission	DEXRON®-VI Automatic Transmission Fluid.
Manual Transmission	Manual Transmission Fluid (GM Part No. 19259104, in Canada 19259105).

11-12 Service and Maintenance

Usage	Fluid/Lubricant
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.
Key Lock Cylinders, Hood and Door Hinges	Multi-Purpose Lubricant, Superlube (GM Part No. 12346241, in Canada 10953474).
Weatherstrip Conditioning	Weatherstrip Lubricant (GM Part No. 3634770, in Canada 10953518) or Dielectric Silicone Grease (GM Part No. 12345579, in Canada 10953481).

Maintenance Replacement Parts

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

Maintenance Replacement Parts

Part	GM Part Number	ACDelco Part Number
Engine Air Cleaner/Filter	95021102	A3184C
Engine Oil Filter	55594651	PF2257G
Passenger Compartment Air Filter	13271190	CF181
Spark Plugs		
1.4L L4	55585517	41–121
1.8L L4	25193473	_
Wiper Blades		
Driver Side – 65.0 cm (25.6 in)	95915125	_
Passenger Side – 38.0 cm (15.0 in)	95915127	_
Rear – 26.5 cm (10.4 in)	95915137	_

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.

Date	Odometer Reading	Serviced By	Services Performed
_			

Date	Odometer Reading	Serviced By	Services Performed

11-16 Service and Maintenance

Date	Odometer Reading	Serviced By	Services Performed

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venicie identification	
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Vehicle Identification

Vehicle Identification Number (VIN)





This legal identifier is in the front corner of the instrument panel, on the left side of the vehicle. It can be seen through the windshield from outside. The 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 on page 12-2* for the vehicle's engine code.

Service Parts Identification Label

If equipped, this label on the inside of the glove box, has the following information:

- Vehicle Identification Number (VIN).
- Model designation.
- · Paint information.
- Production options and special equipment.

Do not remove this label from the vehicle.

Vehicle Data

Capacities and Specifications

The following approximate capacities are given in metric and English conversions. See *Recommended Fluids and Lubricants on page 11-11* for more information.

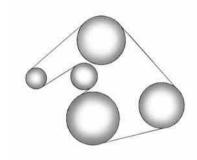
Application	Capacities	
Application	Metric	English
Air Conditioning Refrigerant	For the air conditioning system refrigerant type and charge amount, see the refrigerant label under the hood. See your dealer for more information.	
Cooling System		
1.4L L4	7.3 L	7.7 qt
1.8L L4	6.3 L	6.7 qt
Engine Oil with Filter		
1.4L L4	4.0 L	4.2 qt
1.8L L4	4.5 L	4.8 qt
Fuel Tank	53 L	14 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		

All capacities are approximate. When adding, be sure to fill to the approximate level, as recommended in this manual. Recheck fluid level after filling.

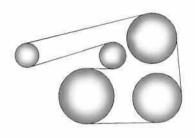
Engine Specifications

Engine	VIN Code	Transmission	Spark Plug Gap
1.4L L4	В	Automatic and Manual	0.7 mm (0.028 in)
1.8L L4	Е	Automatic and Manual	0.9 mm (0.035 in)

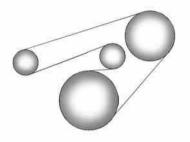
Engine Drive Belt Routing



1.4L L4 Engine



1.8L L4 Engine (with Air Conditioning)



1.8L L4 Engine (without Air Conditioning)

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.

4200 Wilson Boulevard Suite 800 Arlington, VA 22203-1838

Telephone: 1-800-955-5100 www.dr.bbb.org/goauto

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 Limited wants you to be aware of its participation in a no-charge Mediation/Arbitration Program. General Motors of Canada Limited 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 Limited 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 Limited 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 Care Center. Any TTY user can communicate with Chevrolet by dialing: 1-800-263-3830.

Online Owner Center

Chevrolet Owner Centre (chevroletowner.ca)

Take a trip to the Chevrolet Owner Centre:

- Chat live with online help representatives.
- Use the Vehicle Tools section
- Access third party enthusiast sites and social media networks.
- Locate owner resources such as lease-end, financing, and warranty information.
- Retrieve your favorite articles, quizzes, tips and multimedia galleries organized into the Features and Auto Care Sections.
- Download the owner manual for your vehicle, quickly and easily.

 Find the Chevrolet-recommended maintenance services for your vehicle.

GM Mobility Reimbursement Program

MOBILITY

This program is available to qualified applicants for cost reimbursement of eligible aftermarket adaptive equipment required for the vehicle, such as hand controls or a wheelchair/scooter lift for the vehicle

For more information on this offer, call 1-800-GM-DRIVE (463-7483). 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 up to 5 years/ 160 000 km (100,000 mi), whichever comes first.

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.

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. 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 kilometers from where your trip was started to qualify. General Motors of Canada Limited requires pre-authorization, original detailed receipts, and a copy of the repair orders. 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

For an overnight warranty repair, the

Courtesy Rental Vehicle

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 on page 13-5.

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? on page 3-35.

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.

Service Publications Ordering Information

Service Manuals

Service Manuals have the diagnosis and repair information on the engines, transmission, axle, suspension, brakes, electrical, steering, body, etc.

Service Bulletins

Service Bulletins give additional technical service information needed to knowledgeably service General Motors cars and trucks. Each bulletin contains instructions to assist in the diagnosis and service of the vehicle.

Owner Information

Owner publications are written specifically for owners and intended to provide basic operational information about the vehicle. The Owner Manual includes the Maintenance Schedule for all models.

In-Portfolio: Includes a Portfolio, Owner Manual, and Warranty Manual.

RETAIL SELL PRICE: \$35.00 – \$40.00 (U.S.) plus handling and shipping fees.

Without Pouch: Owner Manual only.
RETAIL SELL PRICE:
\$25.00 (U.S.) plus handling and

\$25.00 (U.S.) plus handling and shipping fees.

Current and Past Models

Technical Service Bulletins and Manuals are available for current and past model GM vehicles.

ORDER TOLL FREE: 1-800-551-4123 Monday – Friday 8:00 AM – 6:00 PM Fastern Time

For Credit Card Orders Only (VISA-MasterCard-Discover), see Helm, Inc. at: www.helminc.com.

Or write to:

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

Prices are subject to change without notice and without incurring obligation. Allow ample time for delivery.

All listed prices are quoted in U.S. funds. Make checks payable in U.S. funds.

Radio Frequency Identification (RFID)

RFID technology is used in some vehicles for functions such as tire pressure monitoring and ignition system security, as well as in connection with conveniences such as Remote Keyless Entry (RKE) transmitters for remote door locking/unlocking and starting, and in-vehicle transmitters for garage door openers. RFID technology in GM vehicles does not use or record personal information or link with any other GM system containing personal information.

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 Industry Canada Standards RSS-GEN/210/220/310.

Operation is subject to the following two conditions:

- The device may not cause harmful interference.
- 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 Limited. Call Transport Canada at 1-800-333-0510 or write to:

Transport Canada Road Safety Branch 80 rue Noel 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.

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 Limited Customer Care Centre, Mail Code: CA1-163-005 1908 Colonel Sam Drive Oshawa, Ontario L1H 8P7

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 iniuries 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 this 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 subscription, 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.

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

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OnStar Overview







- Voice Command Button
- Blue OnStar Button
- significant Emergency Button

This vehicle may be equipped with a comprehensive, in-vehicle system that can connect to a live OnStar Advisor for Emergency, Security, Navigation, Connection, and Diagnostic Services. OnStar services may require a paid subscription. 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 public emergency service providers. OnStar may collect information about you and your

vehicle, including location information. See OnStar's Terms and Conditions and Privacy Statement for more details including system limitations at www.onstar.com (U.S.) or www.onstar.ca (Canada).

The OnStar system status light is next to the OnStar buttons. If the status light is:

- · Solid Green: System is on.
- Flashing Green: On a call.
- Red: Indicates a problem.
- Off: System is off. Press the blue OnStar button twice to speak with an OnStar Advisor.

Press of or call 1-888-4-ONSTAR (1-888-466-7827) to speak to an Advisor.

Press D to:

- Make a call, end a call, or answer an incoming call.
- Give OnStar Hands-Free Calling voice commands.

14-2 OnStar

- Give OnStar Turn-by-Turn Navigation voice commands. Requires a specific OnStar subscription plan.
- Obtain the WiFi network name, or Service Set Identifier or SSID, and passphrase (if equipped).

Press to connect to a live Advisor to:

- Verify account information or update contact information.
- Get driving directions. Requires a specific OnStar subscription plan..
- Receive On-Demand
 Diagnostics for a check of the vehicle's key operating systems.
- Receive Roadside Assistance.
- Manage WiFi Settings (if equipped).

Press to get a priority connection to an OnStar Emergency 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 and evacuation routes.

OnStar Services

Emergency

With Automatic Crash Response, the OnStar system can automatically connect to an OnStar Emergency Advisor. The built-in system can automatically connect to help in certain crashes.

Press to connect to an OnStar Emergency Advisor. GPS technology is used to identify the vehicle location and can provide important information to emergency personnel. OnStar Emergency Advisors are trained to provide assistance and link to existing public emergency service providers in emergency situations.

With OnStar Crisis Assist, specially trained Crisis Advisors are available 24 hours a day, 7 days a week, to provide a central point of contact, assistance, and information if a crisis occurs.

Security

OnStar provides services including Stolen Vehicle Assistance, Remote Ignition Block, and Roadside Assistance, if equipped. OnStar can unlock the vehicle doors remotely, if equipped with automatic door locks, and can help police locate the vehicle if it is stolen.

Navigation

OnStar navigation requires a specific OnStar subscription plan.

Press to receive directions or have them sent to the vehicle navigation screen, if equipped.

Destinations can also be forwarded to the vehicle from MapQuest.com.

Turn-by-Turn Navigation

- Press to connect to a live Advisor.
- 2. Request directions.
- 3. Directions are downloaded to the vehicle.

4. Follow the voice-guided commands.

Using Voice Commands During a Planned Route

Cancel Route

- Press D. System responds:
 "OnStar ready," then a tone. Say
 "Cancel route." System
 responds: "Do you want to
 cancel directions?"
- Say "Yes." System responds: "OK, request completed, thank you, goodbye."

Route Preview

- 1. Press ②. System responds: "OnStar ready," then a tone.
- Say "Route preview." System responds with the next three maneuvers.

Repeat

1. Press ②. System responds: "OnStar ready," then a tone.

Say "Repeat." System responds with the last direction given, then responds with "OnStar ready," then a tone.

Get My Destination

- 1. Press ②. System responds: "OnStar ready," then a tone.
- Say "Get my destination."
 System responds with the address and the distance to the destination, then responds with "OnStar ready," then a tone.

Other Navigation Services Available from OnStar

OnStar eNav: Subscribers can send destinations from MapQuest.com to the vehicle Turn-by-Turn Navigation or screen-based navigation system (if equipped). When ready, the directions will be downloaded to the vehicle.

Destination Download: Press [™], then request the Advisor to download directions to the

navigation system in the vehicle (if equipped). After the call ends, press the "Go" button on the navigation screen to begin driving directions.

If directions are downloaded to the navigation system, the route can only be canceled through the navigation system.

Destinations can also be downloaded on the go. For information about eNav or Destination Download, see www.onstar.com (U.S.) or www.onstar.ca (Canada).

Connections

The required specific Onstar subscription plan includes the services that follow to help customers stay connected.

For coverage maps, see www.onstar.com (U.S.) or www.onstar.ca (Canada).

WiFi Connectivity (If Equipped)

The vehicle has a WiFi hotspot that provides a high-speed, wireless Internet connection to connect multiple mobile devices (data plan required).

- To retrieve WiFi hotspot information, press and select or say "WiFi settings."
- The WiFi settings will display the WiFi network name/SSID, passphrase, and level of encryption.
- To change the SSID or passphrase, press or call 1-888-4-ONSTAR to connect with an Advisor.

OnStar RemoteLink® Mobile App (If Equipped)

Download the OnStar RemoteLink mobile app to select Apple[®], Android[™], and BlackBerry[®] or Windows 7 or 8 mobile devices. From the mobile device, check the vehicle's fuel level, oil life, or tire

pressure (if the vehicle is equipped with the tire pressure monitoring system); or activate remote horn and lights. Also remote start the vehicle (if factory equipped) or unlock the doors from anywhere with a wireless connection (if equipped with automatic locks). With a required specific OnStar subscription plan, a destination can be sent to the vehicle. For OnStar RemoteLink information and compatibility, see www.onstar.com (U.S.) or www.onstar.ca (Canada).

OnStar RemoteLink[®] Key Fob Services

This feature is included for five years and allows for remote door lock/unlock (if equipped with automatic locks), remote start (if factory equipped), or activation of horn and lights from anywhere with a wireless signal. Download the app and start using it any time during the trial period to get started.

OnStar Hands-Free Calling

This service allows calls to be made and received from the vehicle.

To Make a Call

- 1. Press ②. System responds: "OnStar ready."
- Say "Call." System responds: "Call. Please say the name or number to call."
- Say the entire number without pausing, including a "1" and the area code. System responds: "OK calling."

Calling 911 Emergency

- Press S. System responds: "OnStar Ready," followed by a tone.
- 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 ②. System responds: "OnStar ready."
- Say "My number." System responds: "Your OnStar Hands-Free Calling number is," then says the number.

End a Call

Press **②**. System responds: "Call ended."

Store a Name Tag for Speed Dialing

- 1. Press ②. System responds: "OnStar ready."
- Say "Store." System responds: "Please say the number you would like to store."
- Say the entire number without pausing. System responds: "Please say the name tag."

- 4. Pick a name tag. System responds: "About to store <name tag>. Does that sound OK?"
- Say "Yes" or say "No" to try again. System responds: "OK, storing <name tag>."

Place a Call Using a Stored Number

- 1. Press ②. System responds: "OnStar ready."
- Say "Call <name tag>." System responds: "OK, calling <name tag>."

Verify Minutes and Expiration

Press and say "Minutes" then "Verify" to check how many minutes remain and their expiration date.

Vehicle Diagnostics

OnStar Vehicle Diagnostics can perform a vehicle check every month. It will check the engine, transmission, antilock brakes, and other major vehicle systems. It also checks the tire pressures, if the vehicle is equipped with the Tire Pressure Monitoring System. If an On-Demand Diagnostics check is needed, press , and an Advisor can run a check.

OnStar Additional Information

Transferring Service

Press to request account transfer eligibility information. The Advisor can assist in canceling or removing account information.

Selling/Transferring the Vehicle

Call 1-888-4-ONSTAR immediately to terminate your OnStar 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 the OnStar service options available.

How OnStar Service Works

Automatic Crash Response, Emergency Services, Crisis Assist, Stolen Vehicle Assistance, Vehicle Diagnostics, Remote Door Unlock, Roadside Assistance, Turn-by-Turn Navigation, 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 terms and conditions:

- Call 1-888-4-ONSTAR (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 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 services. Service involving location information about the vehicle cannot work unless GPS signals are available, unobstructed, and compatible with the OnStar hardware. OnStar 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 services may not work. Other problems beyond the control of OnStar may prevent service 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.

See Radio Frequency Statement on page 13-11.

Services for People with Disabilities

Advisors provide services to help subscribers with physical disabilities and medical conditions.

Press of for help with:

- Locating a gas station with an attendant to pump gas.
- Finding a hotel, restaurant, etc., that meets accessibility needs.
- Providing 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 of the OnStar services, except Virtual Advisor and OnStar Turn-by-Turn Navigation.

OnStar Personal Identification Number (PIN)

A PIN is needed to access some of the OnStar services, like Remote Door Unlock and Stolen Vehicle Assistance. 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 1-888-4-ONSTAR.

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 five days. After five days, OnStar can contact Roadside Assistance and 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, 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

Do not place items over or near the antenna to prevent blocking cellular and GPS signal reception. Cellular reception is required for OnStar to send remote signals to the vehicle.

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 on page 9-44*. Added electrical equipment may interfere with the operation of the OnStar system and cause it to not operate.

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 1-888-4-ONSTAR (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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