



2017



High Performance Owner's Manual Supplement



chevrolet.com (U.S.)
chevrolet.gm.ca (Canada)

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Introduction



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

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

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

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

Propriétaires Canadiens

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

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

Using this Supplement

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

Index

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

Seats and Restraints

Safety Belts

Lap-Shoulder Belt 3

Safety Belts

Lap-Shoulder Belt

On coupe models, the driver safety belt has an Automatic Locking Retractor (ALR). This feature is useful in performance driving scenarios where the driver wants to be held in the seat more tightly to take advantage of the aggressive bolstering of the seat.

To use:

1. Move the seat 8–10 cm (3–4 in) rearward from the normal driving position.
2. Pull the driver shoulder belt out as far as it will go, until it stops, to set the lock. While holding the shoulder belt in this position, buckle the belt.

When you release the shoulder belt, the retractor will make a ratchet sound when it retracts. When the retractor lock is set, the belt can be tightened but not pulled out of the retractor.

3. Adjust the belt close to your body, and then move the seat forward 8–10 cm (3–4 in) to the desired driving position. This will hold the belt to your body even tighter. The belt fit should be tight, but not uncomfortable.

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

Instruments and Controls

Warning Lights, Gauges, and Indicators

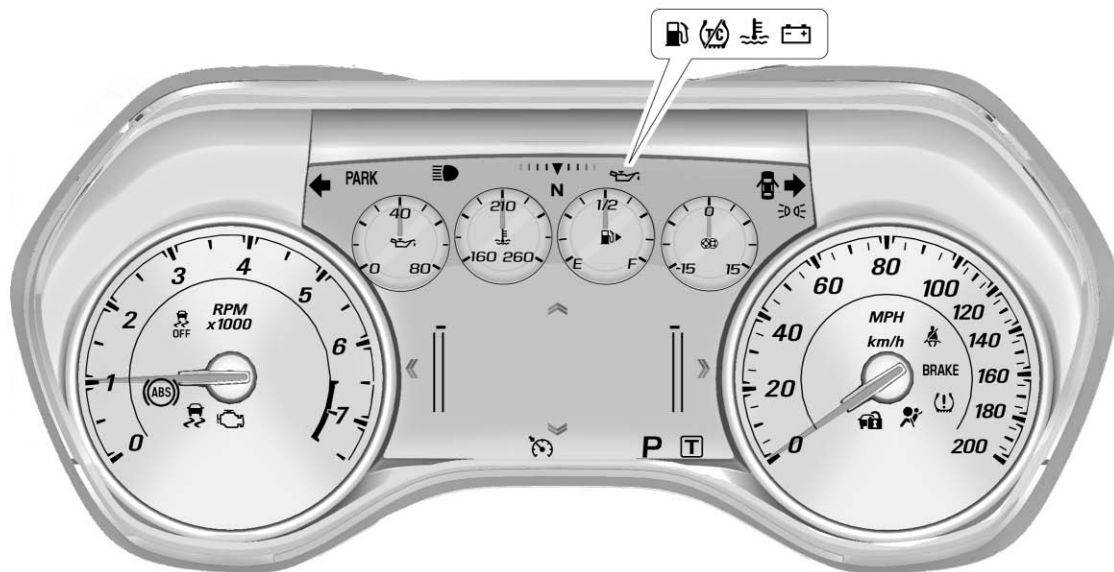
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Warning Lights, Gauges, and Indicators

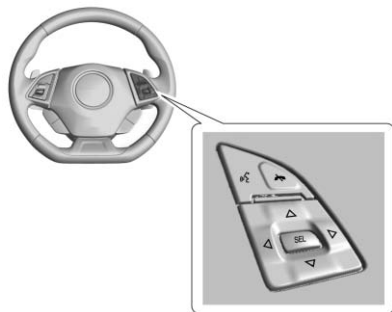
Instrument Cluster



English Cluster Shown, Metric Cluster Similar

Cluster Menu

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



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

Press  to access the cluster applications. Use  or  to scroll through the list of applications. Press SEL to select the application from the list.

Performance

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

Tire Temperature : Displays tire temperature status. Unknown may display if information is unavailable.

Tire temperature states:

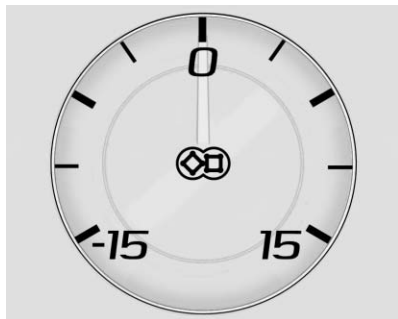
- Cold — Drive with caution as tire performance may be degraded.
- Cool — Drive with caution as tire performance may be degraded.
- Normal — Tires are at normal driving temperature.
- Warm — Tires are ready for aggressive driving.
- Overheated — Tire temperature may be higher than optimal.

eLSD and Wheel Slip : The upper eLSD display indicates the eLSD clutch locking percentage. The lower Wheel Slip display indicates the rear tire slip compared to the speed of the front tires.

Boost Gauge



Metric



English

This gauge indicates vacuum during light to moderate throttle and boost under heavier throttle.

It displays the air pressure level in the intake manifold before it enters the engine's combustion chamber.

The gauge is automatically centered at zero every time the engine is started. Actual vacuum or boost is displayed from this zero point. Changes in ambient pressure, such as driving in mountains and changing weather, will slightly change the zero reading.

Vehicle Messages

Ride Control System Messages

REAR AXLE OFF

If this message displays, the eLSD, if equipped, is not operational and the vehicle's handling capabilities will be reduced during severe maneuvers. Drive with caution. Avoid high speeds, aggressive driving, and sharp cornering. The system could be overheated. Allow the system to cool. If this message remains on, see your dealer for service. The vehicle is safe to drive; however, continue to drive with caution.

SERVICE REAR AXLE

If this message displays, there is a problem with the eLSD, if equipped, and the vehicle's handling capabilities will be reduced during severe maneuvers. Stability Control will be affected. Adjust driving accordingly. See your dealer for service as soon as possible.

Infotainment System

Performance Data Recorder (PDR)

Performance Data Recorder (PDR) 8

Performance Data Recorder (PDR)

If equipped, the PDR icon displays on the Home Page.

Important Information

Use of the PDR may be prohibited or legally restricted in certain countries and situations. Ensure compliance with applicable laws and regulations, including, but not limited to: privacy laws, laws related to camera surveillance and recordings, road traffic and security laws, and laws on the protection of publicity and personality rights.

- Do not use the PDR if it causes distraction.
- Do not rely on camera footage to steer the vehicle.
- Comply with any notice and consent requirements before capturing and/or recording the voices or images of other persons or before collecting other personal data.

- Notify other drivers of your vehicle of the above rules and require them to comply.
- General Motors does not accept any responsibility or liability in connection with use that is not permitted.
- Law enforcement authorities may have the right to seize video recordings and use them as evidence of criminal/driving offenses against you or third parties.

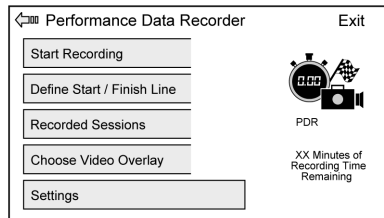
The PDR records video, audio, and vehicle data. This data is stored on a removable SD card. The SD card reader is below the instrument panel to the left of the steering wheel and just above the hood release.

The recorded data is not stored anywhere else and is only accessible from the SD card.

To begin, insert a FAT32 formatted SD card, Class 10 required, 8, 16, or 32 GB recommended, into the SD card reader.

Touch the PDR icon to access the PDR menu. The options displayed are:

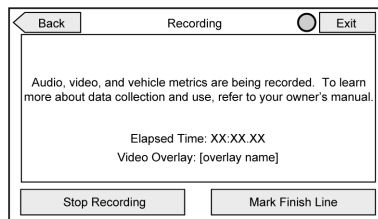
Start Recording



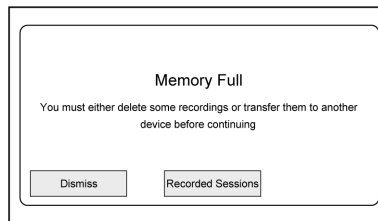
If the system is unable to begin recording, the Start Recording button is grayed out.

Touch Start Recording to begin recording. After recording begins, this button changes to Stop Recording. Touch to stop the recording session.

The recording must be stopped and the file closed before removing the SD card, or the recording cannot be reviewed.

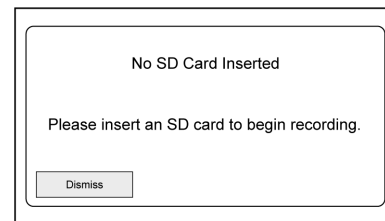


The elapsed time will show when recording. To define a finish line, see “Define Finish Line” later in this section.



If there is no available space on the SD card, a message displays. Delete or transfer recordings on the SD card or use another SD card with free space.

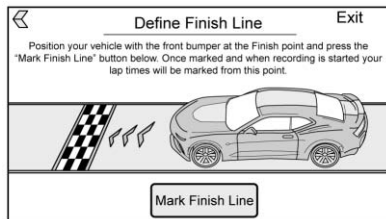
To delete a recording, go to the Recorded Sessions menu and touch **X** next to the item. See “Recorded Sessions” later in this section.



If no SD card is inserted, a message displays.

Define Finish Line

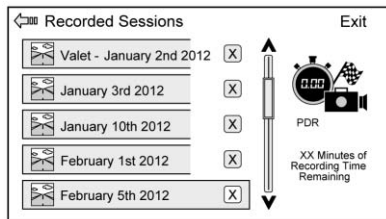
To track and record the vehicle’s lap times, the starting point of a lap must be set. Crossing this point activates the lap timer when recording.



To set the finish line, position the vehicle with the front bumper at the start/finish point. From the PDR menu, touch Define Finish Line and then touch Mark Finish Line. This can be done with the vehicle moving.

Recorded Sessions

To view recorded videos, touch Recorded Sessions.



A list of recordings displays.

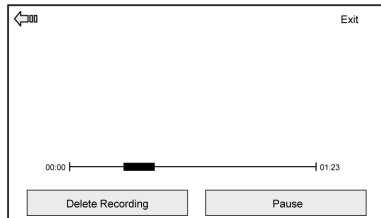
Select the recording to start playback.

Touch **X** next to an item to delete that recording. Touch Yes to delete or No to cancel on the confirmation screen.

Video playback is not allowed while the vehicle is in motion.

Tap on the screen while the video is playing to display the video controls:

Video Scrubber : Changes the position and playback. The length of the bar corresponds to the time of the video. Advance or rewind the video by dragging along the bar.



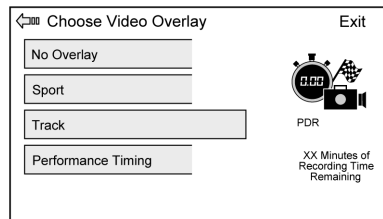
Delete Recording : Touch to delete the video. A confirmation screen displays. Touch Yes to delete or No to cancel.

Pause/Play : Touch to play or pause the video. The button will change when pressed.

◀ : Touch to display the previous screen.

Exit : Touch to exit the current display.

Choose Video Overlay



Touch the Choose Video Overlay screen button to display the menu screen.

Select one:

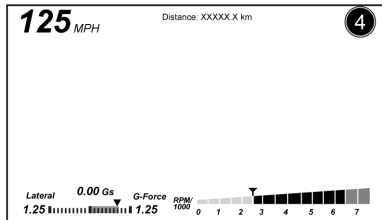
- No Overlay
- Sport

- Track
- Performance Timing

No Overlay:

No vehicle data displays on top of the recorded video. Vehicle data is still available with the video when accessed in the toolbox software.

Sport:

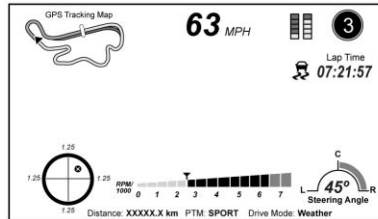


Displays these vehicle metrics:

- Vehicle Speed: Up to three digits are displayed in km/h or MPH depending on vehicle settings.
- Engine Rotations Per Minute (RPMs): The vertical line and triangle show current RPMs. As the RPMs increase, the backfill follows.

- Transmission State (Current Gear): Automatic and manual transmissions display 1, 2, etc.
- Lateral G-Force Graphic: Left and Right G-Forces are displayed. The graphic fills to the left or the right depending on the measure value. The measured G-Force displays as a number at the top of the graphic.
- Event Odometer: This displays the distance driven since the recording began.

Track:



Displays these vehicle metrics:

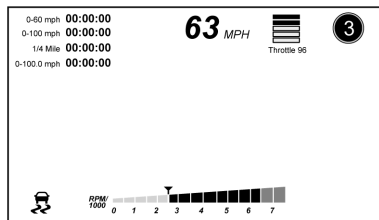
- Vehicle Speed: Same as Sport.

- GPS Tracking Map: Shows the vehicle's current position relative to a known route.
- Engine Rotations Per Minute (RPMs): The vertical line and triangle indicate current RPMs. As the RPMs increase, the backfill follows.
- Transmission State (Current Gear): Same as Sport.
- Friction Bubble Graphic: Lateral and longitudinal G-Forces are displayed as a dot within a bubble. A red dot displays when the vehicle starts braking and turns green when the vehicle accelerates. The dot is white when the vehicle is not moving. A white dot is the default.
- Brake and Throttle Graphic: Displays the percentage value of brake and throttle pedal position from 0–100%.
- Steering Angle: The graphic fills from the center to the left or right depending on the direction of

steering. The numerical steering angle displays below the graphic.

- **StabiliTrak Active Indicator:** The graphic only displays if the active handling systems are activated.
- **Performance Traction Management (PTM) Mode:** Displays the current PTM mode. The options are Wet, Dry, Sport 1, Sport 2, or Race.
- **Current Lap Time:** Displays the elapsed lap time if the finish line is defined and the vehicle has crossed the defined finish line at least once.
- **Event Odometer:** This displays the distance driven since the recording began.
- **Drive Mode:** Displays the vehicle's current drive mode.

Performance Timing:



Displays these vehicle metrics:

- **Vehicle Speed:** Same as Sport.
- **Engine Rotations Per Minute (RPMs):** Same as Sport.
- **Transmission State (Current Gear):** Same as Sport.
- **0-100 km/h (0-60 mph), 0-200 km/h (0-100 mph), 400 m (1/4 mi), and 0-200-0 km/h (0-100-0 mph):** The timer starts recording as soon as the vehicle accelerates. As the vehicle passes each speed and distance milestone, it is displayed on the overlay.

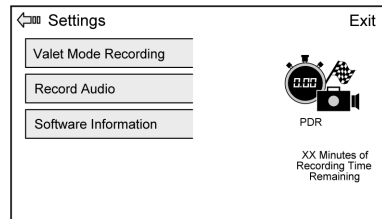
- **Throttle Position:** Displays the percentage of throttle applied from 0-100%.
- **StabiliTrak Active Indicator:** The graphic only displays if the active handling systems are activated.

Naming Convention

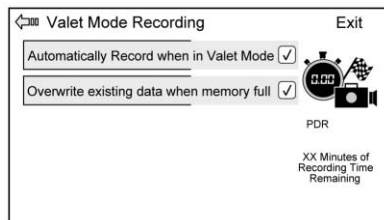
The recorded video file name is stored as the recorded date and the length of the recording.

If the recorded session was recorded while the system was in Valet Mode, the file name will display the mode, date, and length of time.

Settings



Touch the Settings button from the PDR menu to display settings.



Valet Mode Recording : Allows recording preferences to be selected. It is recommended that a blank SD card be used. Available choices are:

- Automatically record when in Valet Mode: Enables the PDR to begin recording as soon as the vehicle is in Valet Mode.
- Overwrite existing data when memory full: Allows manual overwriting of previous recordings, one at a time starting with the oldest, when the current recording requires additional storage to continue.

Audio will not record during Valet Mode.

Record Audio : Allows audio to be recorded along with video.

Audio will not record during Valet Mode.

Software Information : Displays PDR software information and version numbers.

Toolbox Software : Allows for the evaluation of the driver and the vehicle performance on a personal computer after a recorded event. See www.chevrolet.com or your dealer for details to download the software.

Driving and Operating

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Driving Information

Track Events and Competitive Driving

Danger

High-performance features are intended for use only on closed tracks by experienced and qualified drivers and should not be used on public roads. High-speed driving, aggressive cornering, hard braking, and other high-performance driving can be dangerous. Improper driver inputs for the conditions may result in loss of control of the vehicle, which could injure or kill you or others. Always drive safely.

This section covers specific track events and competitive driving information for the Camaro High Performance models only. For additional track events and competitive driving information, see the owner's manual.

Track events or competitive driving may affect the vehicle warranty. See the warranty manual before using the vehicle for racing or other competitive driving.

The Engine Sound Management setting should not be set to Stealth Mode during track events and competitive driving. See "Driver Mode Control" under "Ride Control Systems" in the owner's manual.

Engine Oil

Caution

If you use the vehicle for racing or other competitive driving, the engine may use more oil than it would with normal use. Low oil levels can damage the engine. For information on how to add oil, see “Engine Oil” in the owner’s manual.

Be sure to check the oil level often during racing or other competitive driving and keep the level at or near the upper mark that shows the proper operating range on the engine oil dipstick.

Change the engine oil to 0W-40 or 5W-40 that meets the dexos2™ specification. If this oil is not available, the following oils can be used as an alternative: Valvoline® SYNPOWER MST 5W-40 or Mobil 1® 15W-50 engine oil. If 15W-50 is used, the engine oil must be changed after the track event. See “Capacities and Specifications” under “Vehicle Data” in the owner’s manual.

For LT 1LE, add 0.9 L (1.0 qt) of oil over the nominal fill level for track events. After the competitive driving, remove excess oil so that the level on the dipstick is not above the upper mark that shows the proper operating range.

Automatic Transmission Fluid

The Camaro ZL1 has a 10-speed automatic transmission. Have the transmission fluid set to the track specific oil level prior to track usage. Transmission fluid should be changed after every 15 hours of track usage. Any transmission level set or change should be performed at your dealer.

Tire Pressures

Tire pressure specifications are listed in psi (kPa). Limit the vehicle weight to a maximum of the driver and one passenger, with no additional cargo.

16 Driving and Operating

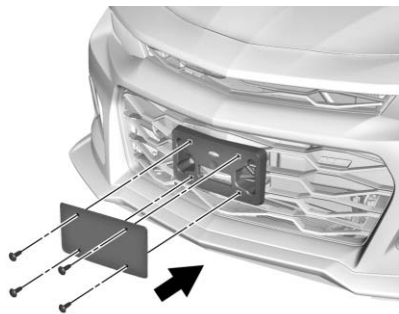
Model	Axle	Road Course cold starting pressures ⁽¹⁾	Road Course target hot pressures ⁽¹⁾	Drag strip cold starting pressures	Sustained high speed cold starting pressures ⁽²⁾
ZL1 Tire Pressure Settings	Front	193 kPa (28 psi)	241–255 kPa (35–37 psi)	221 kPa (32 psi)	303 kPa (44 psi)
	Rear	193 kPa (28 psi)	241–255 kPa (35–37 psi)	179 kPa (26 psi)	303 kPa (44 psi)
SS 1LE Tire Pressure Settings	Front	193 kPa (28 psi)	241–255 kPa (35–37 psi)	N/A	303 kPa (44 psi)
	Rear	193 kPa (28 psi)	241–255 kPa (35–37 psi)	N/A	303 kPa (44 psi)
LT 1LE Tire Pressure Settings	Front	207 kPa (30 psi)	248–262 kPa (36–38 psi)	N/A	303 kPa (44 psi)
	Rear	207 kPa (30 psi)	248–262 kPa (36–38 psi)	N/A	303 kPa (44 psi)

⁽¹⁾ Value will vary based on driving style, track, temperature, and weather conditions.

⁽²⁾ Autobahn, standing mile, etc.

Before leaving the track event, reset tire pressures to the recommended inflation pressures on the Tire and Loading Information label.

Front License Plate/Bracket Removal (ZL1 Only)



For track usage, the front license plate and bracket can be removed from the fascia for increased airflow. Remove the license plate to access the four screws that attach the license plate bracket to the front fascia.

Water Deflector

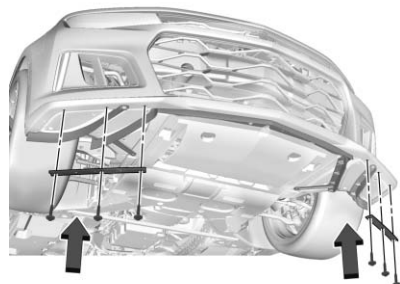


If operating a ZL1 on a closed course in hot temperatures, remove the water deflector to increase airflow and improve cooling. Remove the three bolts. Replace immediately after track use to protect the engine compartment from water intrusion. Torque to 4.5 N•m (40 lb in).

Wicker Bill

A rear spoiler wicker bill is available for LT and SS with the 1LE package only. If equipped with a wicker bill, use the instructions for installation.

Underbody Air Deflector Tire Dam Kit



The underbody air deflector tire dam kit provided with ZL1 vehicles reduces the amount of aerodynamic lift on the front axle for better handling. The original tire dams must be reinstalled after the track event. For installation, see the instructions provided with the kit.

Wheel Alignment

Track alignment specifications are for vehicle at curb weight conditions (full tank of fuel, zero ballast).

18 Driving and Operating

Racing and competitive driving wheel alignment settings can be set as follows for increased handling performance:

Track Wheel Alignment Specifications

Model	Axle	Caster (Not Adjustable)		Camber		Total Toe	Steering Wheel Angle	Thrust Angle
		Left	Right	Left	Right	(Left + Right)		(Left – Right)/2
ZL1 Track Alignment Settings	Front	6.9°	6.9°	-2.0° ± 0.15°	-2.0° ± 0.15°	0.1° ± 0.05°	0.0° ± 3.5°	—
	Rear	—	—	-1.5° ± 0.15°	-1.5° ± 0.15°	0.1° ± 0.05°	—	0.0° ± 0.1°
SS 1LE Track Alignment Settings	Front	6.9°	6.9°	-2.0° ± 0.15°	-2.0° ± 0.15°	0.1° ± 0.05°	0.0° ± 3.5°	—
	Rear	—	—	-1.5° ± 0.15°	-1.5° ± 0.15°	0.1° ± 0.05°	—	0.0° ± 0.1°
LT 1LE Track Alignment Settings	Front	7.2°	7.2°	-2.0° ± 0.15°	-2.0° ± 0.15°	0.1° ± 0.05°	0.0° ± 3.5°	—
	Rear	—	—	-1.25° ± 0.15°	-1.25° ± 0.15°	0.1° ± 0.05°	—	0.0° ± 0.1°

Caution

Using these wheel alignment settings may cause excessive tire wear. Only use these wheel

(Continued)

Caution (Continued)

alignment settings for racing or competitive driving. Excessive tire wear is not covered under the vehicle warranty.

Custom Launch Control (ZL1 Only)

Custom Launch Control allows the following parameters for Launch Control to be modified:

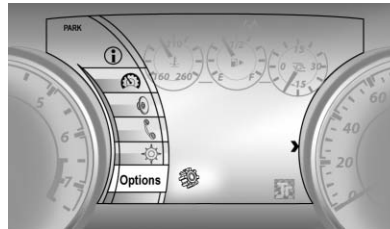
- Launch RPM
- Slip Target (5%–15%)

- Surface Type

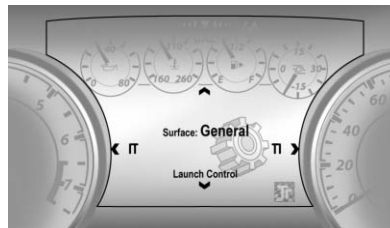
To adjust the Launch RPM, all of these conditions must be met:

- The vehicle must be in Track Mode. See “Track Mode” under “Driver Mode Control” in the owner’s manual.
- Performance Traction Management (PTM) Mode must be enabled. For convertibles, Competitive Driving Mode must be enabled. See “Driver Mode Control” in the owner’s manual.
- The steering wheel must be straight.
- The driver door must be closed.
- The transmission must be in a gear other than R (Reverse). It will work in P (Park) or N (Neutral)
- The parking brake must not be engaged.

For more information on Competitive Driving Mode, see *Competitive Driving Mode* ⇨ 25.

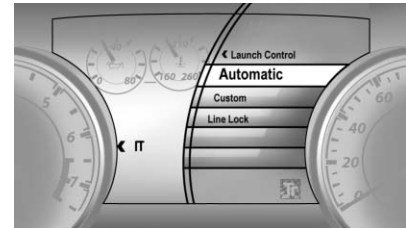


1. Using the buttons on the right side of the steering wheel, press ◀ to open the top level DIC menu. Use ▽ to scroll down to Options and press SEL.

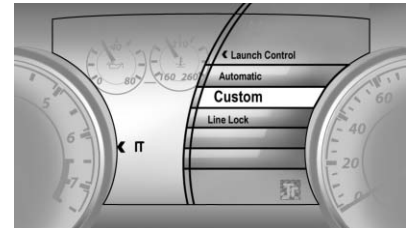


2. Use △ or ▽ to navigate to the Launch Control menu.

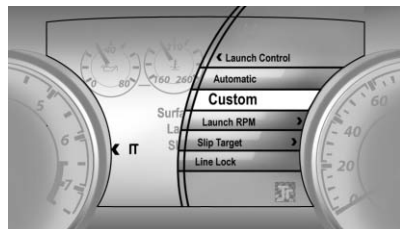
Select the Surface using the MODE switch on the center console.



3. Use ▷ to open the Options menu.



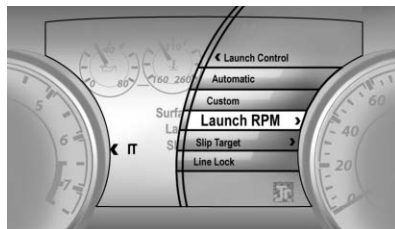
4. Use ▽ or △ to highlight Custom.



5. Press SEL to select Custom.

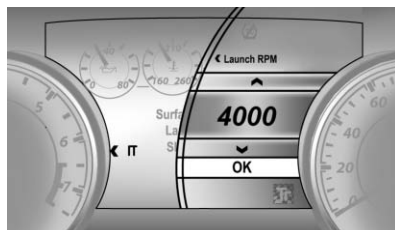


6. Press $\blacktriangleright$ to open the Custom Options menu.

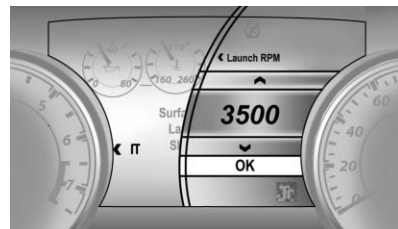


7. Scroll down to Launch RPM using ∇ .

8. Press SEL.



9. Adjust the desired RPM using $\triangle$ or ∇ :
1800–4000 RPM for manual transmissions and 800–2400 for automatic.



10. Press SEL.



In this example, the vehicle is ready to launch at 3500 RPM and 10% wheel slip.

Line Lock

Warning

The vehicle may move unexpectedly when using Line Lock, which could cause injury to persons or property located nearby. Only use Line Lock on a closed track where there is a large clear area around all sides of the vehicle. Be ready to apply the brakes immediately if the vehicle begins to move. Do not use Line Lock in an area that is accessible to the public or where people or property are located near the vehicle.

Caution

Attempting to shift when the drive wheels are spinning and do not have traction may cause damage to the transmission. Damage caused by misuse of the vehicle
(Continued)

Caution (Continued)

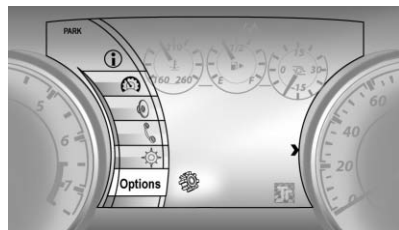
is not covered by the vehicle warranty. Do not attempt to shift when the drive wheels do not have traction.

Line Lock allows for locking the front brakes independently of the rear brakes. This allows the rear tires to spin when the throttle is applied.

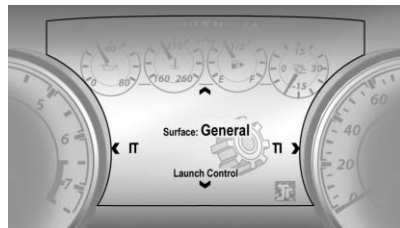
To enter Line Lock, all of these conditions must be met:

- The vehicle must be in Track Mode.
- Performance Traction Management (PTM) Mode must be enabled. For convertibles, Competitive Driving Mode must be enabled.
- The steering wheel must be straight.
- The driver door must be closed.
- The vehicle must be in D (Drive) for automatic transmission or 1 (First) gear for manual transmission.

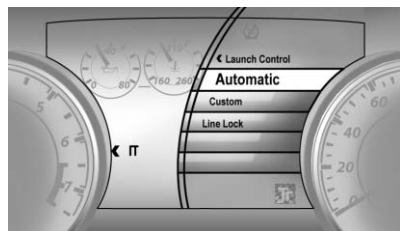
- The parking brake must not be engaged.
- The vehicle must be stopped on level ground. Accelerator pedal must not be applied.



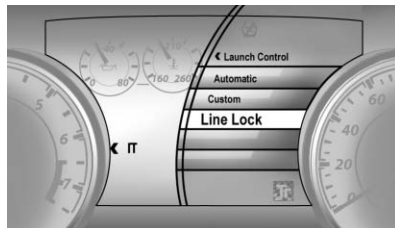
1. Using the buttons on the right side of the steering wheel, press  to open the top level DIC menu. Use  to scroll down to Options and press SEL.



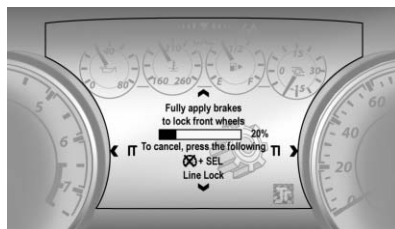
2. Use $\triangle$ or ∇ to navigate to the Launch Control menu.



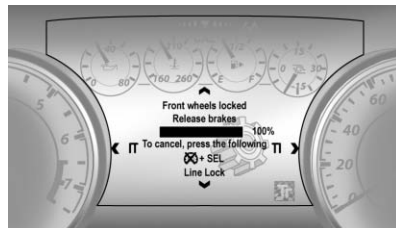
3. Use $\triangleright$ to open the Launch Control menu.
Select Automatic or Custom.



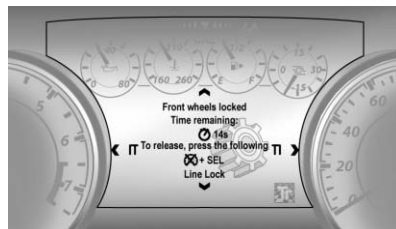
4. Use ∇ to highlight Line Lock.
5. Press SEL to select Line Lock.



6. Press the brake pedal firmly to move the bar graph to 100%.

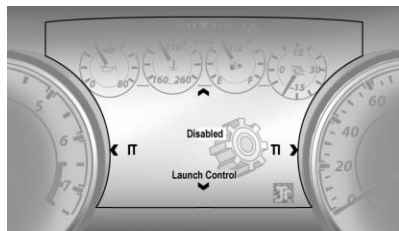


7. Release the brake pedal.



8. There are 15 seconds to complete the burnout and exit.
9. To release the brakes and roll out, press $\odot$ and SEL at the same time.

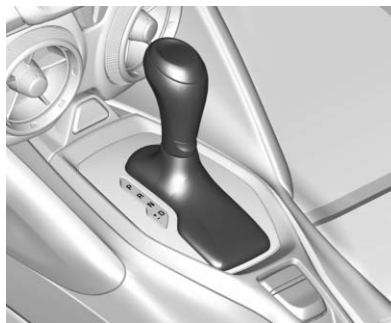
If the burnout is not completed in 15 seconds, torque will be reduced to idle, the parking brake will be applied, the Line Lock releases, and Custom Launch Control will be disabled.



Ensure the parking brake is disengaged to re-enter Launch Control.

Automatic Transmission

The Driver Information Center (DIC) displays the current gear selected in the lower right corner. When Sport Mode is active, an S is displayed. If Manual Mode is active, an M displays next to the current gear selected.



P : This position locks the rear wheels. It is the best position to use when starting the engine because the vehicle cannot move easily.

Warning

It is dangerous to get out of the vehicle if the shift lever is not fully in P (Park) with the parking brake firmly set. The vehicle can roll.

Do not leave the vehicle when the engine is running. If you have left the engine running, the vehicle can move suddenly. You or others could be injured. To be sure the vehicle will not move, even when you are on fairly level ground, always set the parking brake and move the shift lever to P (Park).

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 must be pressed before shifting from P (Park) when the ignition 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.

R : Use this gear to back up.

Caution

Shifting to R (Reverse) while the vehicle is moving forward could damage the transmission. The repairs would not be covered by the vehicle warranty. Shift to R (Reverse) only after the vehicle is stopped.

N : In this position, the engine does not connect with the wheels. To restart the engine when the vehicle is already moving, use N (Neutral) only. Also, use N (Neutral) when the vehicle is being towed.



Warning

Shifting into a drive gear while the engine is running at high speed is dangerous. Unless your foot is firmly on the brake pedal, the vehicle could move very rapidly. You could lose control and hit people or objects. Do not shift into a drive gear while the engine is running at high speed.

Caution

Shifting out of P (Park) or N (Neutral) with the engine running at high speed may damage the transmission. The repairs would not be covered by the vehicle warranty. Be sure the engine is not running at high speed when shifting the vehicle.

D : This position is for normal driving. It provides the best fuel economy.

Caution

If the vehicle does not shift gears, the transmission could be damaged. Have the vehicle serviced right away.

Performance Shifting

While driving in Sport Mode and Track Mode, if Tap Shift has not been activated, the transmission determines when the vehicle is being driven in a competitive manner. The transmission may remain in a gear longer than it would in the normal driving mode based on throttle input and vehicle lateral acceleration. If there is a rapid reduction in throttle from a heavy throttle position at high rpm,

the transmission will maintain the current gear up to near redline rpm. While braking, the transmission will automatically downshift to the next lower gear keeping engine speed above approximately 3000 rpm. If the vehicle is then driven for a short time at a steady speed, and without high cornering loads, the transmission will upshift one gear at a time, until 10 (tenth) gear. After shifting to 10 (tenth) gear, or coming to a complete stop, the transmission will return to normal Sport Mode shifting.

Ride Control Systems

Competitive Driving Mode

Competitive Driving Mode, Performance Traction Management, and Launch Control are systems designed to allow increased performance while accelerating and/or cornering. This is accomplished by regulating and optimizing the engine, brakes, and suspension performance. These modes are for use at a closed course race track and are not intended for use on public roads. They will not compensate for driver inexperience or lack of familiarity with the race track. Drivers who prefer to allow the system to have more control of the engine, brakes, and suspension are advised to turn the normal Traction Control System (TCS) and StabiliTrak™ on.

Caution

Attempting to shift when the drive wheels are spinning and do not have traction may cause damage to the transmission. Damage caused by misuse of the vehicle is not covered by the vehicle warranty. Do not attempt to shift when the drive wheels do not have traction.

Competitive Driving Mode allows full engine power while StabiliTrak helps maintain directional control of the vehicle by selective brake application. In this mode, TCS is off and Launch Control is available. Adjust your driving style to account for the available engine power. See "Launch Control" later in this section.

Do not use cruise control in performance driving situations.

When StabiliTrak is in a performance driving state by pressing  twice for Competitive Driving Mode or Performance

Traction Management Mode, or by pressing and holding  for five seconds to turn StabiliTrak Off, the cruise control buttons on the left side of the steering wheel will be inoperative.

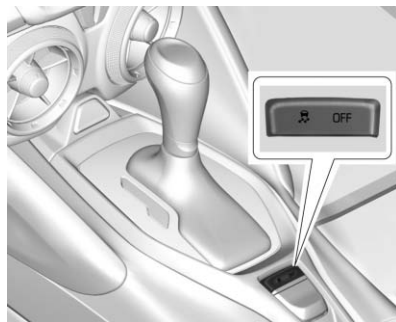
To regain cruise control capability, press  once to return to regular StabiliTrak operation.

Performance Traction Management (PTM) (SS 1LE and ZL1 Only)

PTM integrates the TCS, StabiliTrak, and Competitive Driving Mode systems to provide improved and consistent performance when cornering. The amount of available engine power is based on the mode selected, track conditions, driver skill, and radius of each corner.



These lights are on when the vehicle is in PTM Mode.

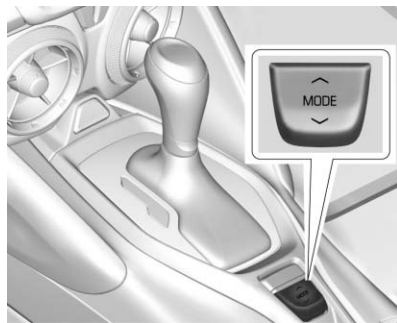


With Track mode engaged, select the optional handling mode by pressing  two times. A menu with the PTM modes will appear.

- Wet
- Dry
- Sport 1

- Sport 2
- Race

To experience the performance benefit of PTM, after entering a curve and at the point where you would normally start to increase acceleration, fully press the accelerator pedal. The PTM system will modify the level of engine power for a smooth and consistent corner exit.



To select a mode while in PTM, press MODE up or down.

PTM Wet

- Intended for all driver skill levels.

- Ideal for wet or damp conditions only; not intended for heavy rain or standing water.
- StabiliTrak is on and engine power is reduced based on conditions.

PTM Dry

- For use by less experienced drivers or while learning a new track.
- Dry conditions only.
- StabiliTrak is on and engine power is reduced based on conditions.

PTM Sport 1

- For use by drivers familiar with the track.
- Dry conditions only.
- StabiliTrak is on and more engine power is available than lower modes.

PTM Sport 2

- For use by drivers familiar with the track.
- Dry conditions only.

- StabiliTrak is off and engine power available is the same as in Sport 1.

PTM Race

- For use by drivers familiar with the track.
- Dry conditions only.
- StabiliTrak is off and engine power is available for maximum cornering speed.

In any PTM Mode, Launch Control is available. Use PTM Race for the most consistent performance during drag strip use. Custom Launch Control may be available through the Settings menu, if equipped. See “Custom Launch Control” in *Track Events and Competitive Driving* ⇨ 14.

Press and release  to turn off PTM and return to TCS and StabiliTrak. The traction off light  and StabiliTrak OFF light  will go out.

Launch Control

If equipped, Launch Control is available within Competitive Driving Mode and Performance Traction Management (PTM) to allow high levels of vehicle acceleration in a straight line. Launch Control is a form of traction control that manages tire spin while launching the vehicle. This feature is intended for use during closed course race events where consistent zero to 60 and quarter mile times are desirable.

Launch Control is only available when the following criteria are met:

- Competitive Driving Mode is selected or any of the Performance Traction Management modes are selected. The TCS light comes on in the instrument cluster and the appropriate Driver Information Center (DIC) message displays.
- The vehicle is not moving.
- The steering wheel is pointing straight.

Manual Transmissions

- The clutch is fully pressed and the transmission is in 1 (First) gear.
- The accelerator pedal is rapidly applied and held to wide open throttle.

Launch Control will initially limit engine speed as you rapidly apply the accelerator pedal to wide open throttle. Allow the engine rpm to stabilize. A smooth, quick release of the clutch, while maintaining the fully pressed accelerator pedal, will manage wheel slip.

Automatic Transmissions

- The brake pedal is firmly pressed to the floor, equivalent to a panic brake event.
- The accelerator pedal is rapidly applied to wide open throttle. If the vehicle rolls due to wide open throttle, release the throttle, press the brake pedal more firmly, and re-apply the accelerator to wide open throttle.

Launch Control will initially limit engine speed as you rapidly apply the accelerator pedal to wide open throttle. Allow the engine rpm to stabilize. A smooth, quick release of the brake pedal, while maintaining the fully pressed accelerator pedal, will manage wheel slip.

After the vehicle is launched, the system continues in Competitive Driving Mode or PTM.

Competitive Driving Mode, PTM, and Launch Control are systems designed for a closed course race track and not intended for use on public roads. The systems are not intended to compensate for lack of driver experience or familiarity with the race track.

Custom Launch Control may be available through the Settings menu, if equipped. See "Custom Launch Control" in *Track Events and Competitive Driving* ⇨ 14.

Limited-Slip Differential

The Electronic Limited-Slip Differential (eLSD) is a hydraulically actuated clutch system. It can infinitely vary the clutch engagement between 0 and 200 N•m of breakaway torque between the rear wheels. It responds to full engagement within 0.150 seconds when necessary. Smaller clutch adjustments happen even faster.

The eLSD:

- Uses the vehicle sensors and driver inputs to determine the optimum amount of clutch engagement for the conditions.
- Improves traction while cornering by changing the engagement to achieve a balance between directional control and acceleration.
- Provides optimal engagement for high-speed control and stability without affecting precise steering and turn-in.

- Improves vehicle stability during spirited driving and evasive maneuvers. Is fully integrated with the Active Handling and Performance Traction Management (PTM) systems.

There are unique calibrations based on the Traction Control System (TCS) setting. eLSD modes change automatically when  is pressed. No unique input from the driver is required.

- Mode 1 is the standard mode when the vehicle is started. It provides a touring calibration with an emphasis on vehicle stability. Mode 1 is also used in PTM Wet mode.
- Mode 2 is engaged when both TCS and StabiliTrak are turned off. This calibration provides more nimble corner turn-in, and is biased for better traction out of corners.

- Mode 3 is engaged when PTM is engaged in Dry, Sport 1 & 2, and Race modes. This is a nimble calibration with similar functionality as eLSD Mode 2, however, it is integrated to work with PTM.
- Mode 4 is engaged when TCS is selected off, but StabiliTrak remains on. Vehicle stability is still the priority, while allowing for optimized traction out of corners.

The ZL1 coupe and SS 1LE are calibrated uniquely and optimized for their unique powertrain and chassis combinations.

Fuel

GM recommends the use of TOP TIER[®] detergent gasoline to keep the engine cleaner and reduce engine deposits. See www.toptiergas.com for a list of TOP TIER detergent gasoline marketers and applicable countries.



Do not use any fuel labeled E85 or FlexFuel. Do not use gasoline with ethanol levels greater than 15% by volume.

Use premium unleaded gasoline meeting ASTM specification D4814 with a posted octane rating of 93. If unavailable, unleaded gasoline

with a posted octane rating of 91 may be used, but with reduced performance and fuel economy. If the octane is less than 91, the engine could be damaged and the repairs would not be covered by the vehicle warranty. If heavy knocking is heard when using gasoline rated at 93 octane, the engine needs service.

Prohibited Fuels**Caution**

Do not use fuels with any of the following conditions; doing so may damage the vehicle and void its warranty:

- For vehicles which are not FlexFuel, fuel labeled greater than 15% ethanol by volume, such as mid-level ethanol blends (16 – 50% ethanol), E85, or FlexFuel.
- Fuel with any amount of methanol, methylal, and aniline. These fuels can

(Continued)

Caution (Continued)

corrode metal fuel system parts or damage plastic and rubber parts.

- Fuel containing metals such as methylcyclopentadienyl manganese tricarbonyl (MMT), which can damage the emissions control system and spark plugs.
- Fuel with a posted octane rating of less than the recommended fuel. Using this fuel will lower fuel economy and performance, and may decrease the life of the emissions catalyst.

Vehicle Care

Vehicle Checks

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Towing the Vehicle

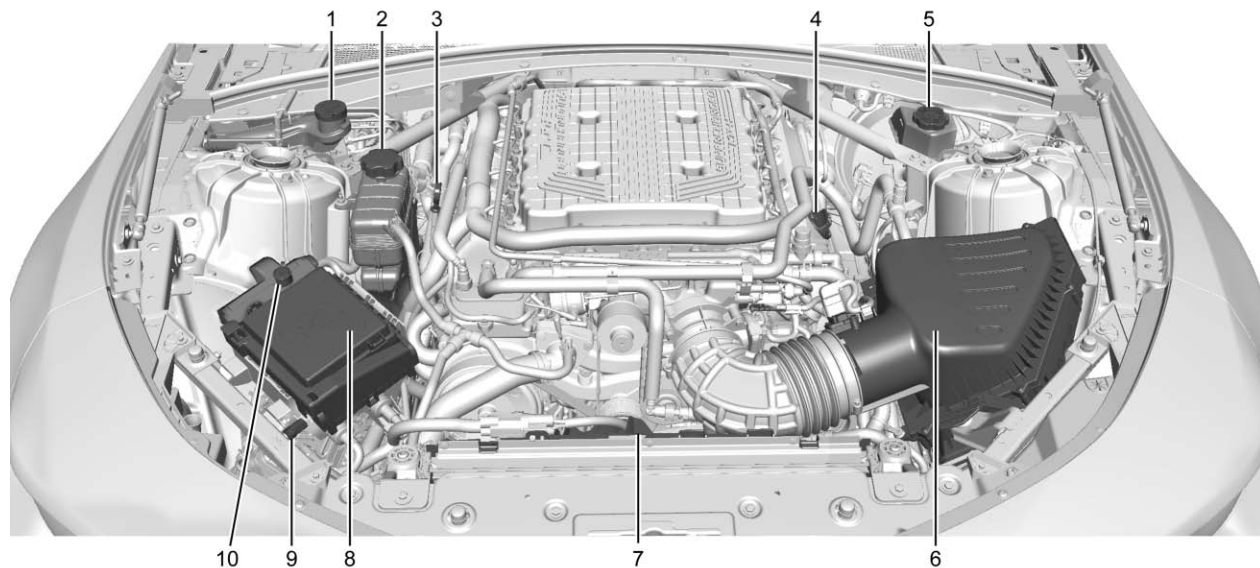
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Vehicle Checks

Engine Compartment Overview



1. Windshield Washer Fluid Reservoir.
2. Engine Coolant Surge Tank and Pressure Cap.
3. Engine Oil Dipstick.
4. Engine Oil Fill Cap.
5. Brake/Clutch Fluid Reservoir.
6. Engine Air Cleaner/Filter.
7. Engine Cooling Fan (Out of View).
8. Engine Compartment Fuse Block.
9. Negative (-) Battery Terminal.
10. Positive (+) Battery Terminal.

Engine Air Cleaner/Filter

The engine air cleaner/filter is in the engine compartment on the driver side of the vehicle.

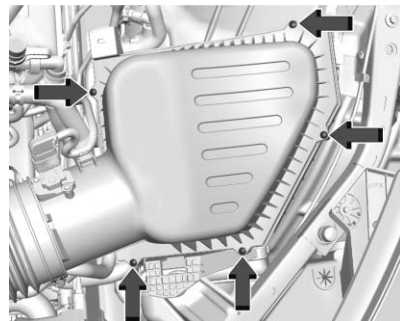
When to Inspect the Engine Air Cleaner/Filter

For intervals on changing and inspecting the engine air filter, see "Maintenance Schedule" in the owner's manual.

How to Inspect the Engine Air Cleaner/Filter

Do not start the engine or have the engine running with the engine air cleaner/filter housing open. Before removing the engine air cleaner/filter, make sure that the engine air cleaner/filter housing and nearby components are free of dirt and debris. Remove the engine air cleaner/filter. Lightly tap and shake the engine air cleaner/filter (away from the vehicle), to release loose dust and dirt. Inspect the engine air cleaner/filter for damage, and replace if damaged. Do not clean the engine air cleaner/filter or components with water or compressed air.

To inspect or replace the engine air cleaner/filter:



1. Remove the five screws and lift the cover assembly. Use caution not to drop any of the loose screws.
2. Inspect or replace the air cleaner/filter.
3. Reverse Steps 1 and 2 to reinstall the housing cover.

Warning

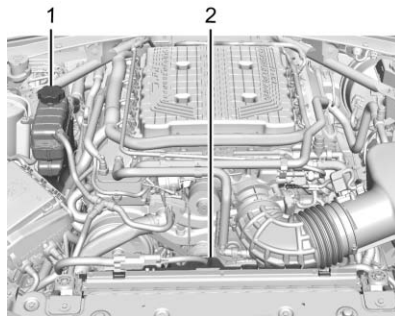
Operating the engine with the air cleaner/filter off can cause you or others to be burned. The air cleaner not only cleans the air; it helps to stop flames if the engine backfires. Use caution when working on the engine and do not drive with the air cleaner/filter off.

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 driving.

Cooling System

The cooling system allows the engine to maintain the correct working temperature.



1. Engine Coolant Surge Tank and Pressure Cap
2. Engine Cooling Fan (Out of View)

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.

Warning

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 vehicle warranty. Always use DEX-COOL (silicate-free) coolant in the vehicle.

Engine Coolant

See “Engine Coolant” in the owner’s manual.

Engine Overheating

See “Engine Overheating” in the owner’s manual.

Wheels and Tires

Summer Tires

High Performance Summer Tires

ZL1, SS with the 1LE package, and LT with the 1LE package are equipped with high performance summer tires. These tires have a special tread and compound that are optimized for maximum dry and wet road performance. This special tread and compound will have decreased performance in cold climates, and on ice and snow. It is recommended that winter tires be installed on the vehicle if frequent driving at temperatures below approximately 5 °C (40 °F) or on ice or snow covered roads is expected. See “Winter Tires” in the owner manual.

Caution

High performance summer tires have rubber compounds that lose flexibility and may develop surface cracks in the tread area at temperatures below -7 °C (20 °F). Always store high performance summer tires indoors and at temperatures above -7 °C (20 °F) when not in use. If the tires have been subjected to -7 °C (20 °F) or less, let them warm up in a heated space to at least 5 °C (40 °F) for 24 hours or more before being installed or driving a vehicle on which they are installed. Do not apply heat or blow heated air directly on the tires. Always inspect tires before use. See “Tire Inspection” in the owner manual.

Tire Pressure for High-Speed Operation

Warning

Driving at high speeds, 160 km/h (100 mph) or higher, puts additional strain on tires. Sustained high-speed driving causes excessive heat buildup and can cause sudden tire failure. This could cause a crash, and you or others could be killed. Some high-speed rated tires require inflation pressure adjustment for high-speed operation. When speed limits and road conditions allow the vehicle to be driven at high speeds, make sure the tires are rated for high-speed operation, are in excellent condition, and are set to the correct cold tire inflation pressure for the vehicle load.

ZL1 and SS with the 1LE package are equipped with 285/30ZR20 (95Y) and 305/30ZR20 (99Y) size tires that are capable of high-speed use. Make sure vehicles with this size tires are inflated to 300 kPa (44 psi) before operating the vehicle at sustained high-speed operation at speeds over 160 km/h (100 mph).

LT with the 1LE package is equipped with 245/40ZR20 95Y and 275/35ZR20 98Y size tires that are capable of high-speed use. Make sure vehicles with this size tires are inflated to 280 kPa (41 psi) before operating the vehicle at sustained high-speed operation at speeds over 160 km/h (100 mph).

Return the tires to the recommended cold tire inflation pressure when high-speed driving has ended. See “Vehicle Load Limits” and “Tire Pressure” in the owner’s manual.

Jump Starting

Jump Starting - North America

See “Jump Starting – North America” in the owner’s manual.

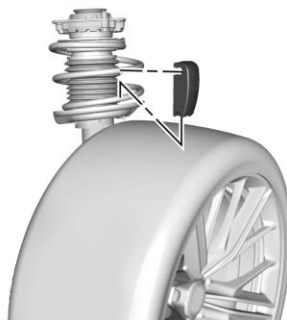
Towing the Vehicle

Caution

Incorrectly towing a disabled vehicle may cause damage. The damage would not be covered by the vehicle warranty.

Do not lash or hook to suspension components. Use the proper straps around the tires to secure the vehicle.

Use only a flatbed tow truck for towing a disabled vehicle. Never use a sling type lift or damage will occur. Use ramps to help reduce approach angles if necessary. A towed vehicle should have its drive wheels off the ground.



Due to low ramp angles on ZL1 and SS 1LE vehicles, use care when loading the vehicle onto a flatbed carrier. Front spring spacers were provided for lifting the front suspension if more clearance is necessary when towing.

Consult a professional towing service if the disabled vehicle must be towed.

To tow the vehicle behind another vehicle for recreational purposes, such as behind a motor home, see the Owner Manual.

Tow Eye Socket

If the vehicle is equipped with a tow eye, only use the tow eye to pull the vehicle onto a flatbed car carrier from a flat road surface. Do not use the tow eye to pull the vehicle from snow, mud, or sand.

The tow eye is in the rear compartment storage area.

To install the tow eye:

1. Locate the tow eye socket through the opening in the grille.
2. Install the tow eye into the socket by turning it clockwise until it stops.

Appearance Care

Exterior Care

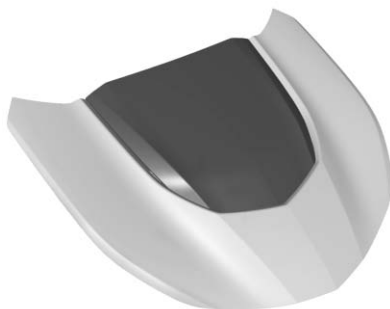
Automatic Car Washes

Do not use automatic car washes. Vehicles with the ZL1 or the 1LE package (or any accessory ground effects package) have reduced ground clearance. Damage can occur in automatic car washes, when approaching curbs, or on steep inclines. Approach curbs and inclines with caution.

Caution

Stepping on the rocker molding could damage the molding. The repairs would not be covered by warranty. Do not step on the rocker molding.

Hood Extractor



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.

It is not recommended that the ZL1 hood extractor be waxed, as it will change the gloss level of the surface. In addition, care must be used when waxing around the hood extractor. If a small amount of wax

is applied to the hood extractor it can create an irregular appearance in the surface of the panel. If wax, debris, or other materials create stains on the hood extractor, see your dealer for the recommended cleaner.

There is a water deflector on the underside of the hood extractor. Remove it for track use only.

Hood Wrap (1LE Only)

Caring for Vehicle Graphics

Wash regularly.

- Wash whenever the car appears dirty. Contaminants allowed to remain on the graphic may be more difficult to remove during cleaning.
- Rinse off as much dirt and grit as possible with a spray of water.
- Never scrub the hood wrap surface.
- Use a wet, non-abrasive detergent.

- Do not buff or apply polishes to the hood wrap.
- Rinse thoroughly with clean water. To reduce water spotting, immediately use a silicone squeegee to remove water. Finish with a clean microfiber cloth.

Pressure Washing

- Ensure the water pressure is kept below 14,000 kPa (2,000 psi).
- Keep water temperature below 80 °C (180 °F).
- Use a spray nozzle with a 40 degree wide angle spray pattern.
- Keep the nozzle at least 30 cm (1 ft) away from and perpendicular (at 90 degrees) to the graphic.

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, flat paint, or matte or textured finishes as damage can occur.

Caution

Machine compounding or aggressive polishing on a basecoat/clearcoat paint finish may damage it. Use only non-abrasive waxes and polishes that are made for a basecoat/clearcoat paint finish on the vehicle.

To keep the paint finish looking new, keep the vehicle garaged or covered whenever possible.

Fuel Spills

Wipe off immediately to avoid degrading the vinyl and adhesive. Then wash, rinse, and dry.

Service and
Maintenance

Recommended Fluids,
Lubricants, and Parts

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Lubricants 41

Maintenance Replacement
Parts 41

Recommended Fluids, Lubricants, and Parts

Recommended Fluids and Lubricants

The following fluid applies to the Camaro ZL1 only. For other fluids not listed here, see “Recommended Fluids and Lubricants” in the owner’s manual.

Usage	Fluid/Lubricant
Automatic Transmission (10 Speed)	DEXRON® ULV Automatic Transmission Fluid (GM Part No. 19352619, in Canada 19352620).

Maintenance Replacement Parts

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

Part	GM Part Number	ACDelco Part Number
Engine Oil Filter	12640445	PF64
Spark Plugs	12642722	41-128

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Vehicle Data

Capacities and Specifications

The following approximate capacities are given in metric and English conversions.

The below values are for ZL1 (LT4 engine) vehicles only. For capacities and specifications for 1LE vehicles, please reference the owner's manual.

Application	Capacities	
	Metric	English
Engine Cooling System		
6.2L V8 Engine (LT4)	10.4 L	11.0 qt
6.2L V8 Engine (LT4) Low Temperature Radiator (LTR)	2.02 L	2.13
Intercooler System	4.3 L	4.5 qt
Engine Oil with Filter	9.5 L	10.0 qt
Real Axle Fluid (ZL1 Convertible Only)	1.1 L	1.2 qt
Real Axle Fluid (Coupe Only with eLSD)	1.5 L	1.6 qt
Electronic Limited-Slip Differential (eLSD) Clutch System Lubricant (ZL1 and SS with the 1LE package)	160 ml	5.4 oz
All capacities are approximate. When adding, be sure to fill to the approximate level, as recommended in this manual. Recheck fluid level after filling		

44 Technical Data

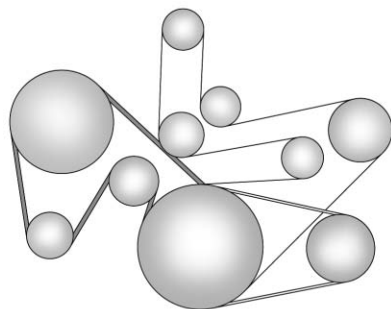
Engine Specifications

Engine	VIN Code	Transmission	Spark Plug Gap	Firing Order
6.2L V8 Engine (LT4)	6	Automatic Manual	0.725–0.875 mm (0.029–0.034 in)	1–8–7–2–6–5–4–3

Engine Data

Engine	Horsepower	Torque	Displacement	Compression Ratio
6.2L V8 Engine (LT4)	640	640 lb ft	6.2L	10.0:1

Engine Drive Belt Routing



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