



File in Section: -

Bulletin No.: PI1073

Date: October, 2013

# Service Bulletin

## PRELIMINARY INFORMATION

**Subject:** 2014 Cadillac CTS New Model Features and Service Guide

**Models:** 2014 Cadillac CTS Sedan, CTS Vsport Sedan  
Equipped with 4 CYL, 2.0L Turbocharged, SIDI, DOHC, VVT, DCVCP — RPO LTG and Hydramatic® 6L45 6-Speed Automatic Transmission — RPO MYA with AWD or RWD  
Equipped with V-6 3.6L, SIDI, DOHC, VVT — RPO LFX and Hydramatic® 6L45 6-Speed Automatic Transmission — RPO MYA with AWD  
Equipped with V-6 3.6L, SIDI, DOHC, VVT — RPO LFX and AISIN TL- 80SN 8-Speed Automatic Transmission — RPO MGG with RWD  
Equipped with V-6 3.6L, Twin Turbocharged, SIDI, DOHC, VVT — RPO LF3 and AISIN TL- 80SN 8-Speed Automatic Transmission — RPO MGG with RWD

### Bulletin Purpose



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The purpose of this bulletin is to help the Service and Sales Department Personnel become familiar with the all-new 2014 Cadillac CTS Sedan and CTS Vsport Sedan.

### About the Vehicle

Cadillac's all-new 2014 CTS sedan ascends into the heart of the midsize luxury market with expanded performance, elevated luxury and sophisticated technology. The third-generation CTS is based on the high-performing rear-drive architecture of the award-winning ATS sport sedan, moving Cadillac into the prestigious class of midsize luxury sedans. The Cadillac User Experience (CUE) infotainment system is standard, with an available 12.3-inch high-resolution LCD instrument cluster. Cadillac's first aluminum door structures contribute to making it the segment's lightest car, and a nearly 50/50 weight balance enable the most agile driving dynamics in the class. A range of power-dense powertrains underpin its performance, including the all-new Cadillac V-6, 3.6L twin turbo engine coupled with an eight-speed automatic transmission.

A longer, lower and more athletic-looking proportion is introduced on the CTS and evolves the Cadillac brand's Art & Science design philosophy. The vehicle has increased by 5 inches (127 mm) in length, including a 1.2 inch (30 mm) longer wheelbase. The roofline, cowl, and base of the windshield, are about 1 inch (25 mm) lower, and these dimensions complement the longer exterior and accentuate the car's lean aesthetic look. The grille is wider with a more detailed texture, while the headlamps flow up with the hood line, incorporating crystalline LED light guides for an advanced appearance with more uniform illumination. The CTS is available with segment-exclusive Magnetic Ride Control and it is standard on all models with 18 inch and 19 inch wheels. The CTS Vsport comes with Magnetic Ride Control and electronic limited slip differential (ELSD), which constantly monitors rear-wheel rotation from one side versus the other to ensure optimal handling on a variety of road conditions.

Cadillac engineers applied the principles of psychoacoustics, which is the science of sound perception to create powerful and pleasant exhaust notes for the CTS and CTS Vsport. Knowing that engine sound communicates throttle response to the driver, the engineers uniquely tuned each selectable driving mode – Tour, Sport and Track – to provide the driver with a specific sound impression of what's happening under the hood. Tour mode purrs with refinement. Sport mode growls with power. Track mode which is only available on the CTS Vsport, roars even more aggressively.

The CTS will feature 10 airbags, Ultrasonic Rear Park Assist (URPA) and OnStar® for one year as standard equipment. There are optional safety features that can be added, including: Full Speed Adaptive Cruise Control (ACC), Panic Brake Assist, Forward Collision Alert (FCA), Automatic Collision Preparation (ACP) with brake prefill, Lane Departure Warning (LDW), Side Blind Zone Alert (SBZA), Rear Cross Traffic Alert (RCTA), Rear Vision Camera (RVC) with Dynamic Guidelines, Adaptive Forward Lighting (AFL) and Active Pedestrian Protection System (in global regions where required). Also available for the first time on a Cadillac is automatic seatbelt tightening to ensure optimal safety and comfort at all times.

Available on the CTS is Automatic Parking Assist, which enables the car to park itself in parallel spaces. It uses ultrasonic sensors to locate a suitable space and then maneuver the car into the space, with the driver only required to engage **R** (Reverse) and apply the accelerator and brake pedals.

Active Aero Grille Shutters are included on some models, improving aerodynamic performance on the highway to enhance fuel efficiency.

The adaptive remote start feature also activates the climate control system.

The CTS is available with a choice of three powerful and efficient direct-injected engines coupled with a 6-speed automatic or an 8-speed automatic transmission with standard rear-wheel-drive (RWD) and available all-wheel-drive (AWD). The new paddle-shift eight-speed transmission offers efficiency and performance advantages over a six-speed transmission, including a 1.5-percent improvement in fuel economy.

## **Cadillac Premium Care Maintenance / New Vehicle Limited Warranty**

The CTS model comes with the Cadillac Premium Care Maintenance program. It is a program designed to provide the customer with peace of mind by covering select required maintenance during the first four years or 50,000 miles (80,000 km) of the vehicle's operation. It aligns with the terms of our 4-years or 50,000 mile bumper-to-bumper New Vehicle Limited Warranty, in Canada 4-years 80,000 km, and is fully transferable.

Cadillac Premium Care Maintenance covers routine maintenance during the first 4-years or 50,000 miles (80,000 km) and includes the following:

- Oil changes based on the Oil Life Monitoring System.
- Tire rotation every 7,500 miles (12,000 km).
- Engine air cleaner filter replacement.
- Passenger compartment air filter replacement.
- Multi-Point Vehicle Inspection (MPVI).

## **Transferable Powertrain Limited Warranty / Roadside Assistance and Courtesy Transportation**

All Cadillac models come backed with a 6-year or 70,000 mile (110,000 km) Transferable Powertrain Limited Warranty. This means if the owner needs warranty repairs to their engine, transmission or drive system in the first 6-years or 70,000 miles (110,000 km), Cadillac has them covered.

If the vehicle needs service, there is 24/7 Roadside Assistance and Courtesy Transportation with the same coverage of 6-years or 70,000 miles (110,000 km).

For Roadside Service call:

- U.S.: 1-800-224-1400.
- Canada: 1-800-882-1112.
- Text Telephone (TTY) Users (U.S. Only): 1-888-889-2438.
- Service is available 24 hours a day, 365 days a year.

You can also refer to the Customer Information section in the Owner Manual.

## Cadillac ProductSource Videos United States

The Cadillac ProductSource videos are accessed through the GM Center of Learning website. Go to: <https://www.gmproductsource.com/gm.aspx>

If you experience difficulties, contact the Center of Learning Help Desk. Go to: [www.centerlearning.com](http://www.centerlearning.com)

## Cadillac ProductSource Launch & Product Knowledge Video Training in Canada

In Canada, please log in through Global Connect. Go to: "GM Pro ProductSource" Training on the Canadian LMS

## Available Product Training

The majority of the systems found on the Cadillac CTS are taught in GM's core curriculum from a conceptual theory and operation perspective.

To access **all** of the available Training Courses visit the following website:

- In the United States go to > [www.centerlearning.com](http://www.centerlearning.com)
- In Canada go to > [www.gmprocanada.com](http://www.gmprocanada.com)

### Training Course Name and System RPO - Course Number and Description

Course Name - System RPO	Course Number and Description
Base Curriculum	#16041.09W Battery, Charging and Starting Systems #16044.21 Engine Performance #16044.16 GM Powertrain Performance #16048.25W-R3 Multiple Diagnostic Interface (MDI) Familiarization #16048.30H-R2 Global Diagnostic System 2 (GDS 2) Overview - Hands On #16048.30W-R2 Global Diagnostic System 2 (GDS 2) Overview #16050.12D Camshaft Position Actuator System and Active Fuel Management (VCT) #18043.01W-R4 Electrical / Electronics Stage 1 #18043.02W-R4 Electrical / Electronics Stage 2 #18043.03W-R3 Electrical / Electronics Stage 3 #18044.20 GM Global Electrical System #13044.20 GM Chassis Control Systems #15045.18 GM Braking Systems #16048.27V GDS 2 Diagnostics (Canada) #16039.16H GDS 2 Certification (Canada) #17041.56 Automatic Transmission Operation, Diagnosis and Service #14043.17 Passenger Car All-Wheel Drive (Base Curriculum)
CTS New Model Features	#50546.09W (Available Soon) (United States and Canada)
10 Air Bags - RPO AYF Restraint Provisions - Automatic Belts, Pre-Crash, Pre-Tightening - RPO AX7	#12340.10 Dual Stage Air Bag System #22048.42 GM Safety Systems 10213.10D 2013 SKH Seminar - September Emerging Issues
HVAC System - Air Conditioning - RPO CJ2	#11044.04 HVAC Systems #11044.05 HVAC Systems and Operation.
Transaxle / Transmission 6-Speed Automatic Transmission RPO MYA Transaxle / Transmission 8-Speed Automatic Transmission RPO MGG	#17041.48W Automatic Transmission Gearsets
Engine - 2.0L Turbocharged DOHC with Spark Ignition Direct Injection (SIDI), Variable Valve Timing (VVT) Engine - 3.6L DOHC with Spark Ignition Direct Injection (SIDI), Variable Valve Timing (VVT)	#16043.52 Engine Mechanical Diagnostics and Measurements #16044.21 GM Powertrain Performance #16044.20 SIDI - Virtual Classroom Training (VCT) #16440.17D Engines (VCT): New and Updated for RPO's LCV and LTG
Transmission - 6-Speed Automatic, Electronically Controlled with Overdrive Transmission - 8-Speed Automatic (aisin) F46 Chassis AWD Transmission	#17041.65 6-Speed Automatic Transmission Mechanical Service #17041.56 Automatic Transmission Operation, Diagnosis and Service

## Training Course Name and System RPO - Course Number and Description (cont'd)

Course Name - System RPO	Course Number and Description
	#14043.17 Passenger Car All-Wheel Drive (Base Curriculum) 17440.14D Transmissions: New and Updates: 6T70, TR-6070, Aisin 8-Speed
Power Steering Power Steering Rack and Pinion ZF Premium Electric with Variable Assist	#13041.12T2 Electric Power Steering Systems #13041.13T1 Rack-Mount Electric Steering #13041.15 GM Steering Systems and Diagnosis (New)
OnStar® OnStar® Generation 9 TechAssist Course	#19040.37 OnStar® Systems and Technology #19040.38T1 OnStar® Systems and Technology
Rear Parking Assist - RPO UD7 Park Assist-Front, Rear, Lateral-Front (Semi-Automatic Steering Advanced Parking Aid) RPO UFQ	#22048.42 GM Safety Systems
Entertainment - Audio Systems Radio-Infotainment System - Uplevel HMI, Enhanced Connectivity - RPO IO5, IO6	#19047.20W3 Entertainment Systems 3 #19047.22D-R2 Infotainment Operation, Diagnosis and Service (VCT) #19047.20W2-R3 Entertainment systems 2 #19047.23D MOST Network Diagnostics and Infotainment System Programming
Tire Pressure Monitor	#13044.20 GM Chassis Control Systems #13044.12T2 Tire Pressure Monitoring Systems Diagnosis
Bluetooth for Phone, Personal Cellphone Connectivity to Vehicle Audio System Bluetooth® Technology, Functions and Features Diagnosing and Methods of Radio Programming (USB Programming, Scan Tool Programming)	#19047.20W2 R2 Entertainment Systems 2 (Including MOST) Network
Theft Deterrent System - RPO UTJ	#19047.09W Entry and Security Systems
Parking Brake - Electronically Operated - RPO J77	#15045.14T1 GM Electric Parking Brakes #18044.25 Body Electrical Accessory Systems
Chassis-Continuously Variable Real Time Damping-Magneto Rheological - RPO FE3 Suspension System - Sport	#13044.20 GM Chassis Control Systems #13044.16T1 Continuous Damping Control
Head Up Display (HUD) - RPO UV6	ESS 2 Update
Camera - Rear View - RPO UVC Sensor Indicator-Side Obstacle Detection (Side Blind Zone Alert) - RPO UFT Sensor Indicator-Rear Cross Traffic Alert - RPO UFG Sensor-Collision Avoidance & Mitigation, Vehicle Forward Movement, Brake Prefill & Intelligent Brake Assist – RPO UGN	#22048.42W1 GM Safety Systems 1 #22048.42W2 GM Safety Systems 2 #22048.42W3 GM Safety Systems 3



## Dexos1™ Engine Oil Specification — Recommended Viscosity



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Only those oils displaying the dexos1™ trademark and a registered trademark logo on the front label of the container meet the demanding performance requirements and stringent quality standards set forth in the dexos1™ specification.

Look on the front label for either of the logos shown above and the 11 digit alphanumeric dexos® license number on the back label to identify an authorized, licensed dexos1™ engine oil. Unless an oil package displays these two markings, the engine oil is not an authentic, licensed dexos® product and is not recommended for use in GM vehicles.

The dexos1™ specification was uniquely designed to complement the exacting requirements of GM's advanced engine technology. The specification has gone through an extensive developmental and testing process. It requires a number of proprietary tests that are not included in current industry standards and sets performance criteria at a level that exceeds many current standards. The result is a high performance fluid providing significant wear protection, improved piston cleanliness, a reduction in volatility and oil consumption, enhanced aeration control for improved fuel efficiency, and better oxidation properties.

## Viscosity Grade

**Notice:** DO NOT use other viscosity grade oils such as SAE 10W-30, 10W-40, or 20W-50.

ACDelco dexos1™ Synthetic Blend SAE 5W-30 is the recommended viscosity grade for the 2.0L turbocharged engine, 3.6L and 3.6L twin turbocharged engine.

**Cold Temperature Operation:** In an area of extreme cold, where the temperature falls below **-20°F (-29°C)**, 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.

Refer to this General Motors website for dexos1™ information about the different licensed brands that are currently available: <http://www.gmdexos.com>

## Low Profile Vehicles — Lifting and Jacking the Vehicle

The use of a **LOW PROFILE LIFT ARMS SYSTEM** may be required to avoid unwanted contact with the vehicle's body and structure depending on lifting equipment used. Refer to the hoist manufacture's recommendation for their applications of low profile lift arms system for their lifting equipment. **Before** setting or raising the vehicle, refer to Lifting and Jacking the Vehicle in SI.

## Cadillac User Experience (CUE) Infotainment System



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At the core of the car's intuitive technologies is the Cadillac User Experience (CUE) infotainment system that uses smartphone and tablet-influenced controls and commands to access information and entertainment data. CUE uses sharp, metallic icons with an illuminated blue glow on the eight-inch high-resolution color capacitive touch screen with haptic feedback that allows users to swipe and drag preferences, reconfiguration of Home screen icons, a Personalized app tray and the ability to save multiple rows of Favorites. Prominent Home screen apps can be dragged to the top row of the screen, making them easily accessible from a different page or application. The screen's bottom row features a Favorites' bar that stores presets like Navigation Destinations, Phone Contacts and Radio Stations. Drivers can use their finger to drag this bar up, revealing three more rows of Favorites, or slide the bar down to hide them. A full-color, configurable head-up display is also available. Bluetooth® connectivity with natural voice recognition is standard with CUE, along with USB and SD card ports.

The 2014 CTS also serves as Cadillac's first implementation of Apple's Siri Eyes Free mode. Users with Siri-equipped iPhones can connect their devices to CUE via USB or Bluetooth® and tap the voice control button on the steering wheel to activate Siri. The software is a slightly augmented version of the digital assistant, stripping out things that could lead users to take their eyes off of the road, such as Web searches.

CUE comes standard with the Bose® eleven speaker sound system and the available Bose® Centerpoint® Surround Sound system with 13 speakers. Bose® Active Noise Cancellation is included on all models. This technology reduces the unwanted low frequencies created by the engine, transmission and other powertrain components by up to 20 dB, resulting in a quieter in-cabin experience.

## 5.7-Inch Full Color Configurable Driver Information Center / 12.3-Inch High-Resolution Configurable LCD Instrument Cluster



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Standard on all models except Premium Collection is a 5.7-inch full color configurable driver information center (DIC), allowing the driver to select information to display.



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Standard on Premium and available on Performance Collection is the 12.3-inch high-resolution, configurable LCD instrument cluster display complements the CUE display and supports the active safety features. It offers drivers four different layouts each delivering bold, crisp graphics tailored to the level of vehicle information desired as follows:

- **Balanced:** A traditional setting with a three-gauge layout, which is the factory default setting.
- **Simple:** A digital appearance, limiting the amount of information displayed.
- **Enhanced:** A modern look with a large digital speedometer in the center. This view displays the maximum amount of information.
- **Performance:** A performance-oriented, sporty display, with a 3D rotating view of the vehicle.

## Cleaning High Gloss Surfaces, Vehicle Information Displays and Radio Displays



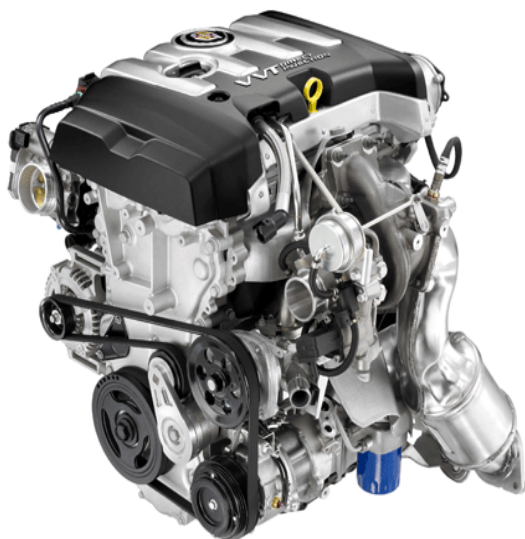
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**Notice:** The microfiber cloth is shipped in the bag that contains any loose items that are to be installed when performing the vehicle PDI.

The CTS has high gloss surfaces, vehicle information displays and radio displays. Use a microfiber cloth to wipe these types of 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. **DO NOT** use window cleaners or solvents. Periodically hand wash the microfiber cloth separately from other items, using mild soap. **DO NOT** use bleach or fabric softener. Rinse thoroughly and air dry before the next use.

### Engine and Transmission

The CTS is available with a choice of three powerful and efficient engines coupled with a 6-speed automatic or an 8-speed automatic transmission. The available engines, transmissions and specifications are as follows:



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- The Turbocharged (TC) 4-cylinder 2.0L with Dual Overhead Cam (DOHC), Dual Continuous Variable Cam Phasing (DCVCP), Variable Valve Timing (VVT) and Direct Injection (DI) — RPO LTG, produces the following horsepower and torque:
  - 272 hp (203 kW)
  - 295 lb-ft of torque (399 Nm)



Use premium unleaded gasoline with a posted octane rating of 91 or higher. (Premium recommended but not required).

Equipped with Hydramatic® 6L45 6-Speed Automatic Transmission — RPO MYA with AWD or RWD



2859946

- The V6, 3.6L with Dual Overhead Cam (DOHC), Variable Valve Timing (VVT) and Direct Injection (DI) — RPO LFX, produces the following horsepower and torque:

- 321 hp (239 kW)

- 275 lb-ft of torque (373 Nm)

Use regular unleaded gasoline with a posted octane rating of 87 or higher.

Equipped with Hydramatic® 6L45 6-Speed Automatic Transmission — RPO MYA with AWD

Equipped with AISIN TL- 80SN 8-Speed Automatic Transmission — RPO MGG with RWD



3619184

- The V6, 3.6L with Dual Overhead Cam (DOHC), Variable Valve Timing (VVT), Direct Injection (DI) and Twin Turbos — RPO LF3, produces the following horsepower and torque:

- 420 hp (313 kW)

- 430 lb-ft of torque (583 Nm)

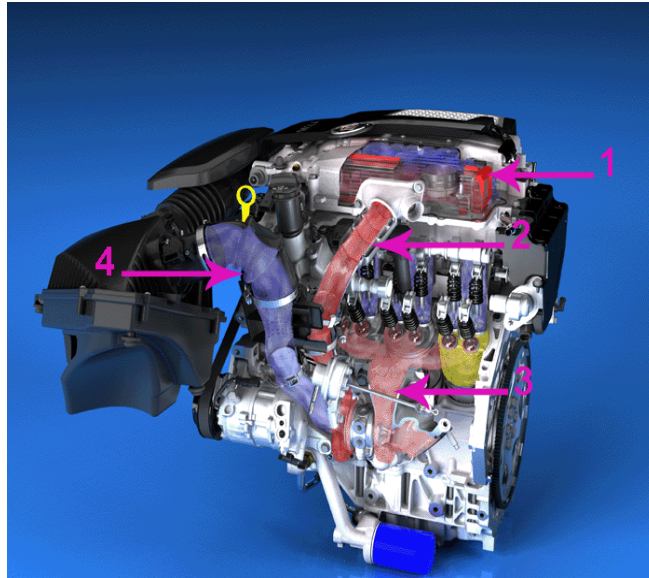
Use premium unleaded gasoline with a posted octane rating of 91 or higher.

Equipped with AISIN TL- 80SN 8-Speed Automatic Transmission — RPO MGG with RWD



## Cutaway of Twin Turbo V6 3.6L RPO LF3

The Cadillac Twin Turbo is the most power dense six-cylinder engine in the segment. A pair of smaller turbochargers provide more immediate power on demand, with approximately 90 percent of torque available in the 2,500 RPM to 5,500 RPM range. That gives the engine a broad torque curve that will feel as strong, willing power in almost all driving conditions.



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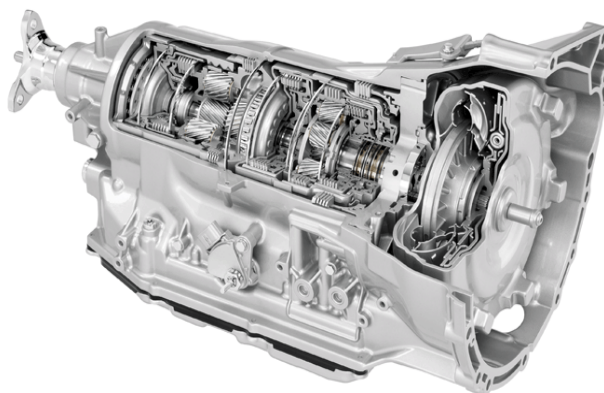
1. Integrated Charge Air Cooler (Intercooler)
2. Charged Air
3. Exhaust Gases
4. Intake Air

The industry's first integrated charge air cooler (1) configuration puts the two small turbocharger air paths and related cooling bricks into the intake plenum. This advanced design provides the following:

- Dramatically reduces the distance compressed air travels from the compressor to the intake plenum to virtually eliminate turbo lag.
- Underhood packaging benefits.
- Significantly improves noise, vibration and harshness performance by reducing air-rush noise and ductwork resonance.

The vacuum-actuated wastegate control provides smoother, more consistent performance across the RPM band, reduces engine noise and increases engine durability.

## Cutaway of 8-Speed Automatic Transmission



3619197

New to Cadillac is the AISIN TL- 80SN 8-Speed Automatic Transmission — RPO MGG

This transmission **requires** the use of a new automatic transmission fluid WS-ATF, in the United States GM P/N 88863400 and in Canada P/N 88863401

### **Brembo Performance Front Aluminum Brake Calipers / DURALIFE™ Brake Rotors**

Standard on all models, these Brembo performance front aluminum brake calipers have these features:

- Lighter weight reduces the unsprung weight for enhanced steering and handling.
- Stiffer calipers reduce brake wear and offer superior braking performance.

All DURALIFE™ brake rotors are vented to dissipate heat. A ferritic nitro carburizing (FNC) treatment makes the DURALIFE™ brake rotors corrosion resistant. This manufacturing process provides the following benefits:

- Rotors stay shiny and new looking.
- Eliminate brake shudder caused by corrosion buildup.
- Reduce brake dust accumulation.
- Virtually double rotor service life.

Front brake rotors are 12.6 inches (320 mm) on the 2.0L and 3.6L and 13.6 inches (345 mm) on the 3.6L Twin Turbo Vsport.

Rear brake rotors are 12.4 inches (315 mm) on all models.

## Magnetic Ride Control / Front and Rear Suspension

### Magnetic Ride Control

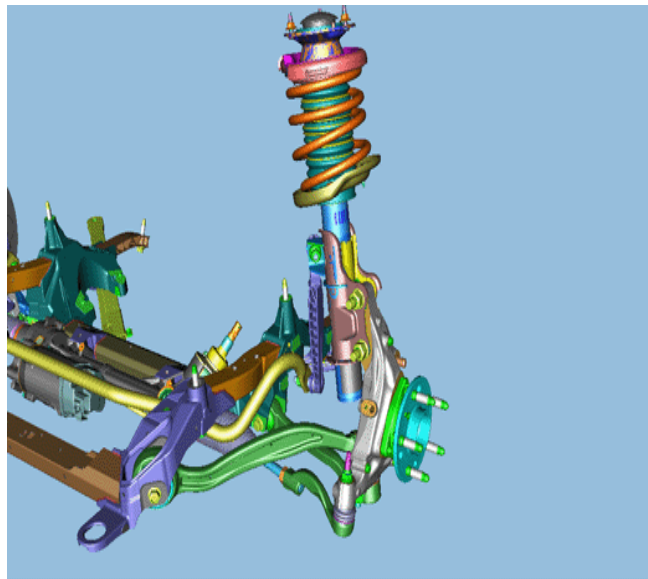


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Depending on the equipment package the vehicle may be equipped with Magnetic Ride Control — the fastest reacting suspension in the world. Magnetic Ride Control delivers precise body motion control by electronically monitoring the road conditions every millisecond and reacting by changing shock absorber damping in as little as one to five milliseconds. The electronically controlled front and rear shocks are filled with a magneto-rheological fluid containing minute iron particles. Under the presence of a magnetic charge, the iron particles align to provide damping resistance almost instantly.

### Front Independent Multi-Link MacPherson Strut Suspension

The front independent multi-link MacPherson strut suspension has the following advantages:



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A double pivot design:

- Replaces conventional wishbone at each of the wheels with a pair of ball joints and lower control arms.
- Separates control of road inputs from handling responses.
- Delivers precise steering and smoother ride.

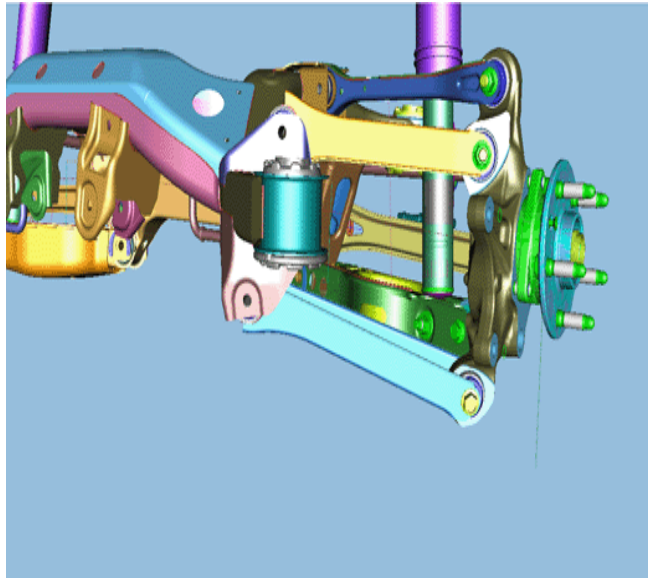
Direct-acting stabilizer bar aids cornering control.

**RPO FE2:** MacPherson-type with dual lower ball joints, twin-tube struts and direct-acting stabilizer bar or uplevel optional Magnetic Ride Control with monotube inverted struts.

**RPO FE3:** MacPherson-type with dual lower ball joints, direct-acting stabilizer bar and Magnetic Ride Control with monotube inverted struts.

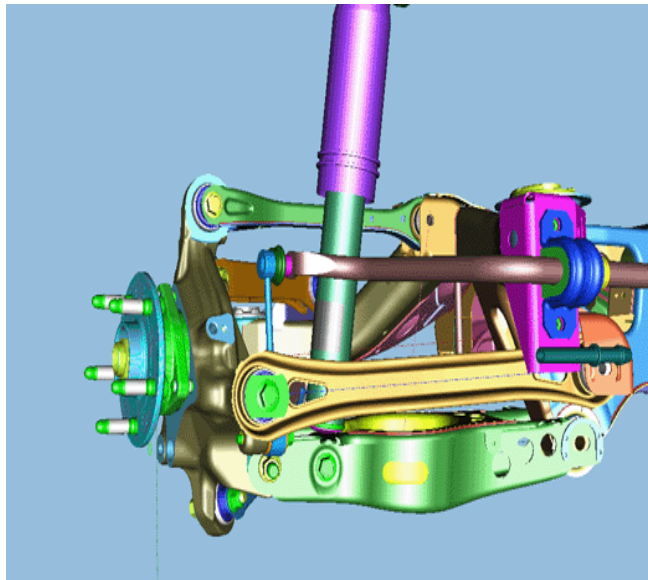
#### **Rear Independent 5-Link Suspension System — Front View**

The rear independent 5-link suspension is the 1st application used in a Cadillac.



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#### **Rear Independent 5-Link Suspension System — Rear View**



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The independent 5-link suspension system has the following advantages:

- Center link plus upper and lower control arms on each side.
- Provides superior dynamic stability.
- Separates control of road inputs from handling responses.
- Reduces vehicle “squat” on acceleration.

**RPO FE2:** Independent five-link with twin-tube shock absorbers or uplevel optional Magnetic Ride Control with monotube shocks.

**RPO FE3:** Independent five-link with Magnetic Ride Control with monotube shocks.

## CTS Headlamp



3623929

## Structural Adhesive and Weight Saving Aluminum Components

Greater use of structural adhesive and aluminum is helping to reduce the overall weight of the CTS sedans, contributing to better ride and handling and reduced cabin noise. The CTS uses 387 feet of structural adhesive as a bonding agent that holds together and stiffens load-bearing parts and components. The extensive use of adhesive provides a damping effect, which reduces the transmission of vibration through the body structure. This results in fewer squeaks and rattles reaching the driver. The heavy-duty material, along with traditional metal joining processes like spot welding, also makes a stiffer and more durable joint. These advanced techniques, in addition to the use of high-strength steels and efficient geometry helps make the CTS 40 percent stiffer than the previous model.

To further improve performance, aluminum was used extensively to save weight. For the first time, all four doors are constructed of aluminum, removing 55 lbs (25 kg) compared with the steel doors on the previous generation CTS. With a base curb weight of 3,600 lbs (1633 kg), CTS is the lightest vehicle in its class.

Additional contributions to weight savings by using aluminum components are as follows:

- 13.1 lbs (5.9 kg) by replacing the steel bumpers with aluminum bumpers.
- 14.0 lbs (6.4 kg) by replacing the steel front strut towers with cast aluminum front strut towers.
- 7.2 lbs (3.2 kg) by replacing the cast magnesium instrument panel structure with an extruded and stamped aluminum instrument panel structure.
- 36.5 lbs (16.6 kg) by replacing the steel powertrain cradle with an extruded and cast aluminum powertrain cradle.
- Aluminum front and rear doors.
- Aluminum hood.

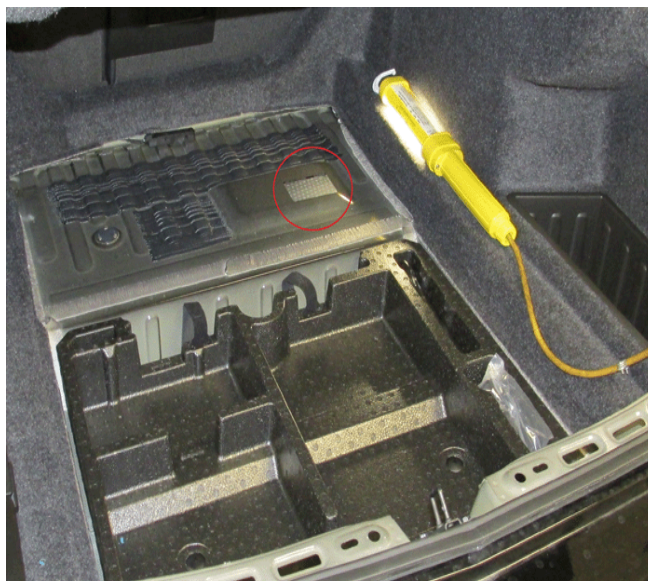
## Run-Flat Tires

The CTS is factory equipped with run-flat tires. It does not have a spare tire, tire changing equipment, inflator kit or a place to store a tire. The vehicle also has a Tire Pressure Monitor System (TPMS) that indicates a loss of tire pressure in any of the tires. Run-flat tires can be driven on with no air pressure. There is no need to stop on the side of the road to change the tire. Continue driving; however, do not drive too far or too fast. Driving on the tire may not be possible if there is permanent damage. To prevent permanent damage, keep vehicle speed below 80 km/h (50 mph). With a light load the vehicle can be driven up to 60 mi (100 km); with a moderate load 50 mi (80 km); and a heavy load 25 mi (45 km). As soon as possible, contact the nearest authorized GM or run-flat servicing facility for inspection and repair or replacement. When driving on a deflated run-flat tire, avoid potholes and other road hazards that could damage the tire and/or wheel beyond repair. When a tire has been damaged, or driven any distance while deflated, check with an authorized run-flat tire service center to determine whether the tire can be repaired or should be replaced. To maintain the run-flat feature, all replacement tires must be run-flat tires. The valve stems on run-flat tires have sensors that are part of the TPMS. These sensors contain batteries that are designed to last for 10 years under normal driving conditions. See your dealer for wheel or TPM sensor replacement.



To locate the nearest GM or run-flat servicing facility, call Customer Assistance. OnStar® can be used to make this call.

## GM Regular Production Option (RPO) Code Label Location



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The GM regular production option (RPO) code label is located on the front of the rear compartment floor pan.

## Transport Mode (Battery Saver Mode)

Transport mode (battery saver mode) reduces the parasitic load of some modules during overseas shipment or during vehicle storage conditions. This improves the drain time on the battery for up to 70 days without the battery going dead. When a vehicle is in transport mode, some features may have reduced functionality, such as disabling the Remote Function Actuator or content theft features. Battery saver mode is initiated by turning **ON** the hazard flashers, applying the brake pedal, and then turning the ignition key to the **START** position or pushing the ignition mode switch with the foot on the brake for more than 15 seconds. The transport mode is disengaged by repeating the previous process. The DIC (if equipped) will display Transport Mode is **On** when battery saver mode is enabled and Transport Mode is **Off** when battery saver mode is disabled. For vehicles not equipped with a DIC, the battery indicator light will constantly flash on the Instrument Cluster when battery saver mode is enabled. This feature can be used as many times as necessary if the vehicle is to be stored for an extended period of time.

Battery saver mode incorporates a latching relay that when enabled disconnects some modules from their ignition power or memory power sources. When battery saver mode is enabled and the vehicle is switched **OFF**, the BCM sends a momentary command to unlatch the relay disconnecting power up to 1 minute after RAP is inactive. Every time the vehicle is switched **ON** the BCM will send a momentary command to latch the battery saver relay. This allows the use of all features when the ignition is **ON**. The BCM will send another command to unlatch the relay once the vehicle is switched **OFF** and RAP is inactive.

## Vehicle Enhancements

### Central High Mounted Stop Lamp (CHMSL)



3626584

The sculpted central high mounted stop lamp (CHMSL) has 48 LEDs for illumination and is inset in the integrated rear spoiler.

### Ambient Lighting

Standard ambient LED lighting illuminates footwells, door pulls, glove box, center stack bin, center console bin, sun visor mirrors, cup holders, rear assist handles and overhead console. Available ambient lighting uses LED light pipes to create a museum-like look of quality to instrument panel and door spear décor elements.

### Double-Walled Acoustical Barrier

A more forward engine location provides room for a double-walled acoustical barrier between the engine compartment and cabin adding to a quieter interior.

### Center Stack Storage

The hidden storage in the center stack can be used for storing smartphones and sunglasses. The compartment is illuminated, includes a USB port and can be locked in Valet mode.

### Electric Glove Box

The electric glove box opens with the touch of a button located on the center stack, it can accommodate a variety of personal items and can be locked in Valet mode.

### Center Console Storage

The center console provides storage and houses two USB ports, an auxiliary input jack and an SD card reader.

## Motorized Cup Holder Cover



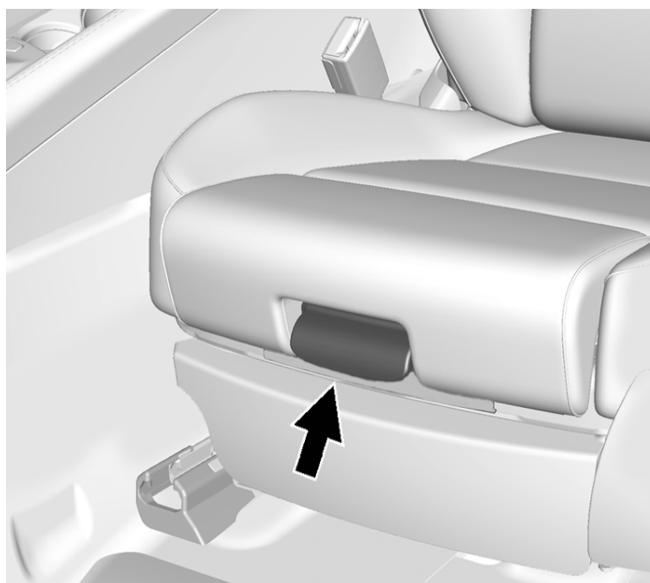
3619317

There is a motorized cup holder cover on the center console that opens and closes with just a touch.

## Front Seatback Map Pockets

The front seatback map pockets are sized for tablets and other similar sized items.

## 20-Way Seat Adjustment



3620806

The 20-way seats add a new level of support with in-and-out power seatback bolster adjustment and manual seat cushion thigh extenders. Adjust the manual seat cushion thigh extender by pulling up on the lever, and then pulling or pushing on the thigh extender to lengthen or shorten it. Release the lever to lock it in place.

## Rear Passenger Door Sunshades

If equipped, use the handle to pull the sunshade up and attach it to the holder at the top of the window. There is also a small shade for the rear corner of the window. To close the sunshade, use the handle to unhook and hold it while it retracts down.

### Power Rear Window Sunshade

If equipped with a power rear window sunshade, the switch is on the overhead console. The sunshade only operates with the ignition in **ON/RUN/START**. To open the sunshade, press and release the switch. The sunshade will fully extend. To close the sunshade, press and release the switch again. The sunshade will fully close. If the vehicle is shifted into **R** (Reverse) when the sunshade is extended, it will automatically close. When the vehicle is shifted into **D** (Drive), the sunshade will not automatically extend. Press and release the switch to extend the sunshade.

### Frameless Inside Rearview Mirror



3602288

New for 2014 is a frameless inside rearview mirror.

### Battery Load Management

The CTS has Electric Power Management (EPM), which estimates the battery's temperature and state of charge. It then adjusts the voltage for best performance and extended life of the battery.

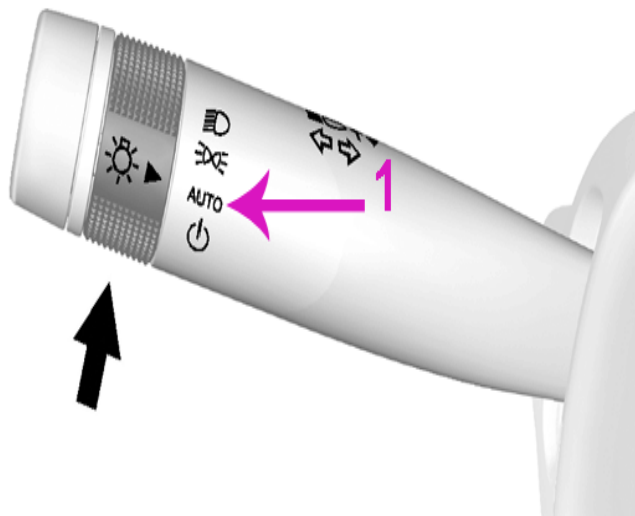
### IntelliBeam System



3530752

If equipped, this system turns the vehicle's high-beam headlamps **ON** and **OFF** according to surrounding traffic conditions. The system turns the high-beam headlamps **ON** when it is dark enough and there is no other traffic present. This indicator light turns **ON** in the instrument cluster when the IntelliBeam system is enabled.

#### Turning ON and Enabling IntelliBeam System



3532907

To enable the automatic high-beam system, place the turn signal lever in the neutral position and turn the exterior lamp control to **AUTO (1)**. The blue high-beam **ON** light appears on the instrument cluster when the high beams are turned **ON**.

The system only activates the high beams when driving over 25 mph (40 km/h). A sensor near the top center of the windshield, automatically controls the system. Keep this area of the windshield clear of debris for best system performance.

#### OnStar®

Model Year 2014 OnStar® markets have been expanded to include the United States, Canada, Mexico, China and the Middle East except for Lebanon and Jordan where it is regulatory restricted. OnStar® will be available in Mexico later this year.

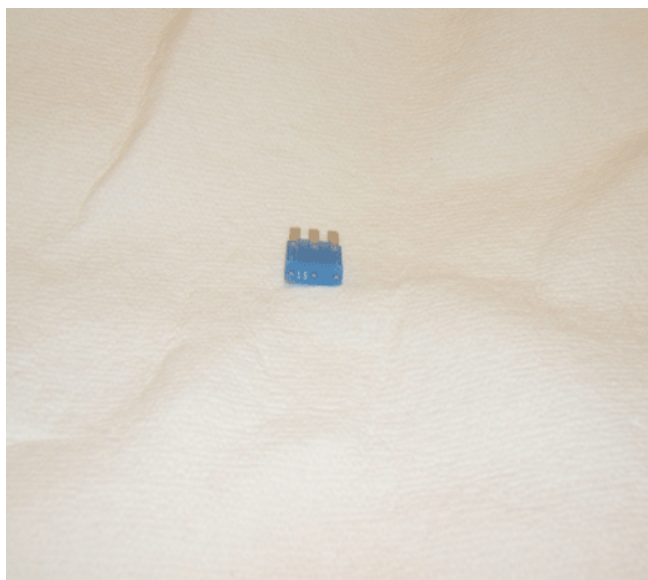
One year of OnStar® Directions and Connections service is standard on CTS. OnStar® is the global leading provider of connected safety, security and mobility solutions and advanced information technology.

More information about OnStar® can be found at this website: [www.onstar.com](http://www.onstar.com)

For OnStar® in Canada, refer to [www.onstar.ca](http://www.onstar.ca)



## Micro-3™ Terminal Fuses



2901532

The MICRO3™ Fuse is the new standard for vehicle circuit protection. The MICRO3™ Fuse has 3 terminals and 2 fuse elements with a common center terminal. Its sub-miniature design meets the need for more circuits to be protected while utilizing less space.

The CTS uses some of the new style Micro-3™ terminal fuses in the underhood electrical center (UEC).

Fuse numbers from the GM Electronic Parts Catalog (EPC):

- GM EPC — P/N 19209797 FUSE, MICRO3 (3 BLADE STYLE) (05.0 AMP) (32V) (TAN)
- GM EPC — P/N 19209798 FUSE, MICRO3 (3 BLADE STYLE) (07.5 AMP) (32V) (BROWN)
- GM EPC — P/N 19209799 FUSE, MICRO3 (3 BLADE STYLE) (10 AMP) (32V) (RED)
- GM EPC — P/N 19209800 FUSE, MICRO3 (3 BLADE STYLE) (15 AMP) (32V) (BLUE)

## Trunk Release

**Notice:** When using the touchpad on the rear of the trunk, it may be necessary to press and hold the touchpad for approximately 2–3 seconds in order to open the trunk. This is a normal operating characteristic of the vehicle.

To open the trunk, press the trunk release button on the driver door or the touchpad on the rear of the trunk slightly above the license plate with the RKE transmitter in range or use the trunk release button on the Remote Keyless Entry (RKE) transmitter.

## Acoustic Glass

**Notice:** DO NOT hang key lock boxes on any acoustic glass.

The vehicle is equipped with laminated acoustic glass in the front windshield, and the front and rear driver and passenger doors.

Acoustic windshields are the same as a standard windshield, but they have been made with a thin, sound absorbing technology between the glass that reduces the interior noise by 3dB overall, and even more in the frequency where people "hear" the human voice. This technology actually allows automakers to use thinner glass without sacrificing cabin comfort. A lighter windshield also reduces the weight of the vehicle, which improves fuel economy and reduces the CO2 emissions created by the engine.

## Reverse Tilt Mirror

The passenger and/or driver mirror tilt to a preselected position when the vehicle is in **R** (Reverse). This feature allows the driver to view the curb when parallel parking. The mirror returns to the original position when the vehicle is shifted out of **R** (Reverse), the ignition is turned **OFF** or to **OFF/LOCK**, or if the vehicle is driven in reverse above a predetermined speed. Turn this feature **ON** or **OFF** through Vehicle Personalization.

## Auto Defog

When set to **ON**, the front defog will automatically react to temperature and humidity conditions that may cause fogging. Select **OFF** or **ON** through Vehicle Personalization.

## Adaptive Forward Lighting

With adaptive forward lighting, the projector headlamps pivot horizontally in the direction of the front wheels to maintain forward lighting in concert with vehicle steering in order to provide greater road illumination when turning. Heading into a curve or turning a corner, the headlamps swivel up to 15 degrees depending on the curve and vehicle speed. The system works with both low and high beam headlamp settings.

## Power Outlets 12V / Retained Accessory Power (RAP) — Circuit Breaker Replaces Fuse

The 2014 CTS will be utilizing a circuit breaker instead of a standard fuse for the 12V accessory power outlets power circuit which is also the retained accessory power (RAP) circuit. The purpose of this engineering change is to improve customer experience.

The 12V accessory power outlets can be used to plug in electrical equipment, such as a cell phone or MP3 player.

- Inside the center console storage in front of the armrest cover.
- Inside the armrest bin behind the cupholders.
- On the rear of the center console (if equipped).

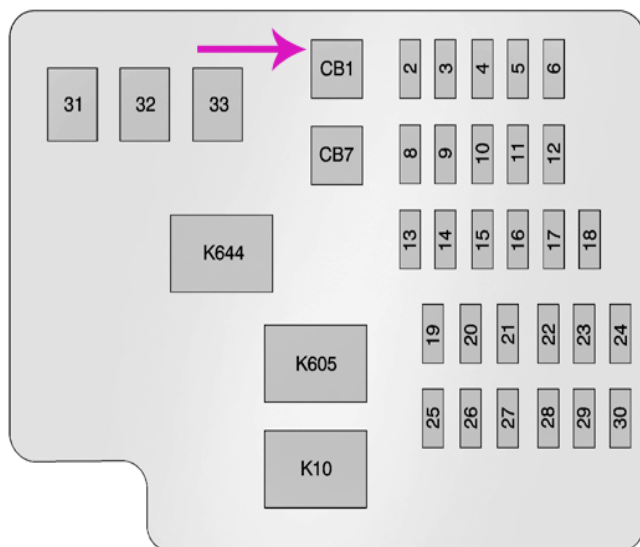
The 12V outlets are powered **ON**, when the vehicle is in **ON/RUN/START** or **ACC/ACCESSORY** mode or until a door is opened within 10 minutes of turning **OFF** the vehicle.

Certain electrical accessories **MAY NOT** be compatible with the accessory power outlet and could overload a vehicle circuit breaker or adapter fuse. If overloaded, the circuit breaker will reset after all devices are disconnected or if RAP is turned **OFF** and then back **ON**. Wait one minute to allow the circuit breaker to reset before reconnecting devices or turning RAP back **ON**.

## Replacing the Factory 12V Power Outlet With a Cigarette Lighter Receptacle — Requires Replacing Circuit Breaker With Minifuse

**Caution:** Failure to replace the circuit breaker with a minifuse of the correct rating could overheat the cigarette lighter and damage the vehicle. Always check with your dealer before adding electrical equipment.

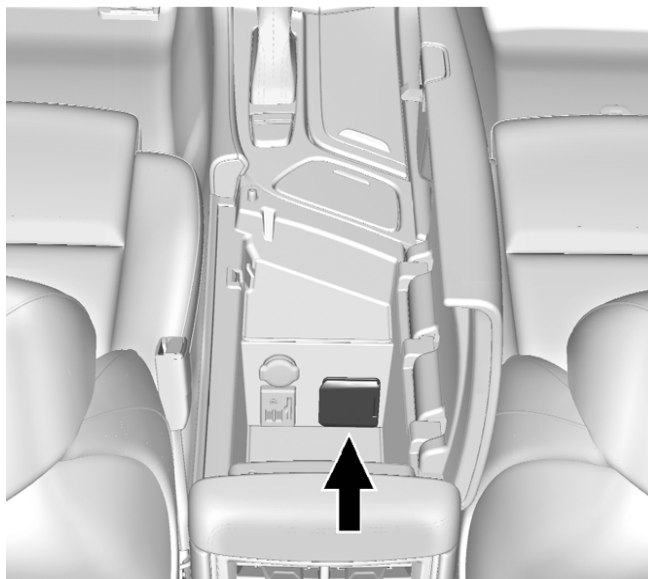
It is possible to replace the factory 12V power outlet with a cigarette lighter receptacle, if desired. This requires the factory installed circuit breaker to be replaced with a standard minifuse. A minifuse will not reset and will have to be replaced if blown.



3549619

The circuit breaker CB1, is in the instrument panel fuse block at the end of the driver side of the instrument panel. To access the CB1 circuit breaker, remove the end panel cover.

## Power Outlet 110V Alternating Current



3619306

If equipped, this 110V power outlet is inside 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 turns **ON** when the ignition is in **ON/RUN**, equipment requiring less than 150 watts is plugged into the outlet and no system fault is detected.

The indicator light will **NOT** turn **ON** when the ignition is in **LOCK/OFF** or if the equipment is not fully seated into the outlet.

⇒ If equipment is connected that uses more than 150 watts or a system fault is detected, a protection circuit shuts **OFF** the power supply and the indicator light turns **OFF**.

The power restarts when the device is unplugged for a minimum of 10 seconds and then 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 the following:

- Equipment with high initial peak wattage such as: a compressor driven refrigerator, electric power tools, hair dryers, etc.
- Equipment requiring an extremely stable power supply such as: a microcomputer-controlled electric blanket, touch sensor lamps, sensitive electronics, etc.

## Keyless Ignition with Push Button Engine Start/Stop — Keyless Access — Adaptive Remote Start

Keyless Ignition with Push Button Engine Start/Stop is standard. There is a key inside of the remote fob that can be accessed by pushing on the fob release button. The key can be used for all locks. The key can unlock the driver door or the passenger door after first removing the cover that conceals the lock cylinder. Refer to the section titled: Unlocking the Door With the Key / Removing the Door Lock Cylinder Cover

### Remote Keyless Access

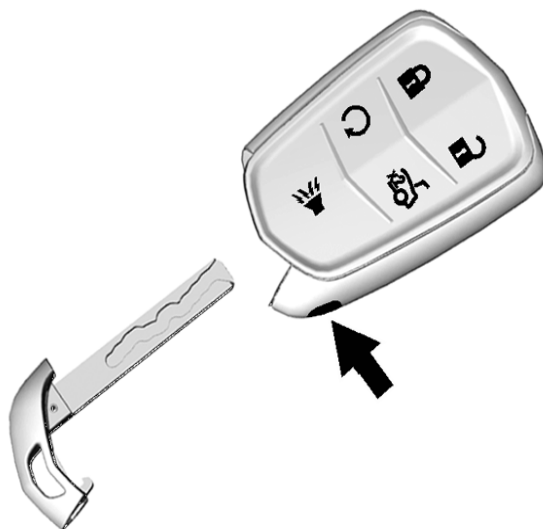
Remote Keyless Access is standard on and includes lock, unlock, panic functions and two transmitters. The vehicle can have up to eight transmitters matched to it.

### Adaptive Remote Start

Adaptive Remote Start is standard and also activates the climate control system.

## Unlocking the Door With the Key / Removing the Door Lock Cylinder Cover

To unlock the vehicle using the key, follow this procedure. The procedure is the same for the driver door or the front passenger door.



3619264

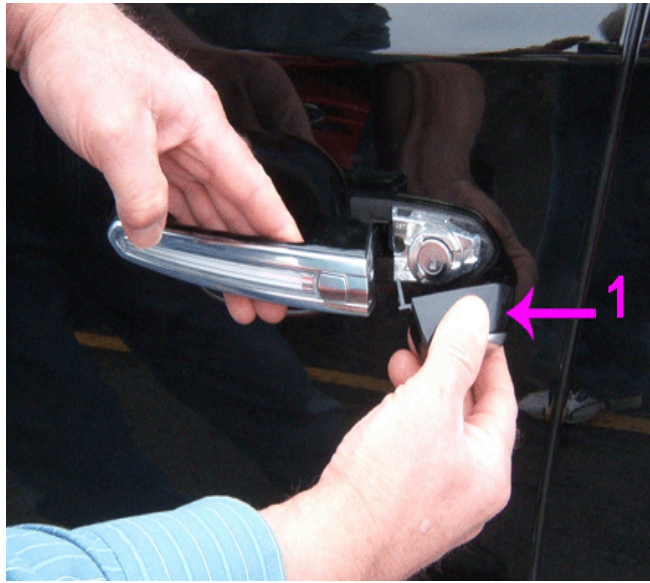
**Notice:** To remove the door lock cylinder cover, perform Steps 1–4:

1. Press the button and pull to remove the key.



2863207

2. Pull back on the door handle (1) and **HOLD** it in the **OPEN** position. Insert the key (2) into the opening in the bottom of the cover.
3. Gently pry the cover loose with the key.

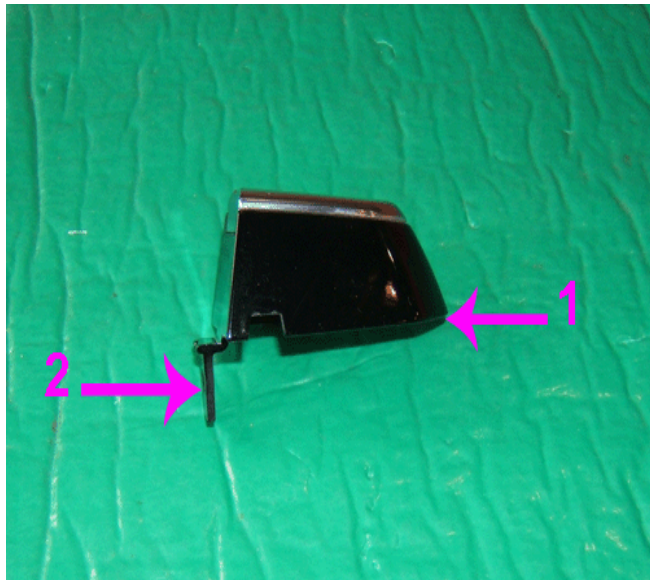


2863239

4. Remove the cover to gain access to the door lock cylinder.

**Notice:** To install the door lock cylinder cover, perform Steps 5–9:

5. Pull back on the door handle and **HOLD** it in the **OPEN** position.



2863249

6. With the door handle in the **OPEN** position, place the cover over the door lock cylinder in order to **SEAT** the **REAR** (1) of the cover first.

7. Gently press the front tab (2) of the cover into the opening.





2863251

8. Verify the cover is secured.
9. Release the door handle.

## **Unique Vehicle Characteristics — Vacuum Operated Engine Mount System**

### **Vacuum Operated Engine Mounts Description and Operation**

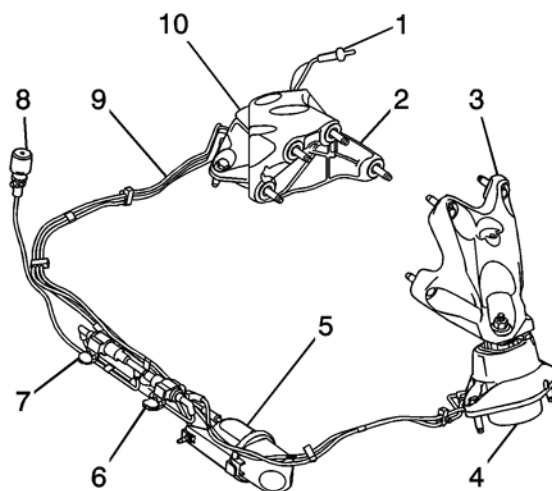
A CTS equipped with the 2.0L RPO LTG engine has vacuum operated engine mounts. The vacuum operated engine mounts allow the engine to idle at a lower RPM, increasing fuel efficiency and controlling noise, vibrations and harshness (NVH).

The engine mounts are filled with a clear glycol fluid. The fluid is pushed back and forth through different paths in the engine mount by the main rubber element at the top of the engine mount. The fluid flows through the idle and/or bounce tracks/paths which impacts the stiffness of the engine mounts. To control the flow of fluid through the tracks vacuum is turned OFF and ON under two separate diaphragms. The engine mount software is in the fuel pump control module (FPCM). Vehicle operating data is received over the GMLAN. The FPCM determines the appropriate state for the engine mounts based off the vehicle operating conditions.

The system consists of the following components:

- Engine mounts (Qty: 2)
- Vacuum tank assembly
- Valve assemblies (Qty: 2)
- Filter assembly
- An engine mount vacuum hose assembly (includes a check valve)

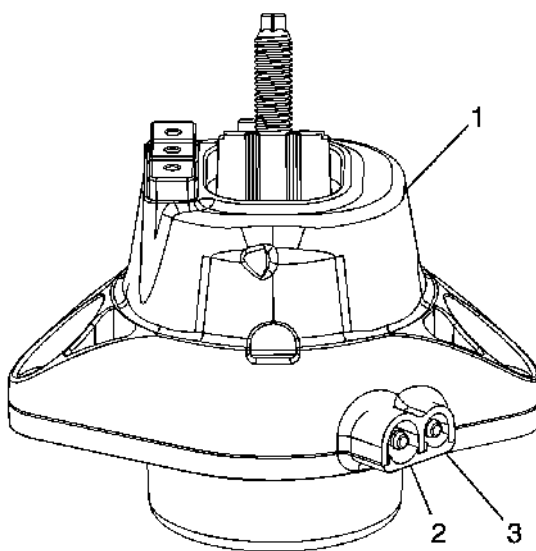
## 4-State Vacuum Operated Engine Mount System



2906353

1. Check Valve
2. RH Engine Mount Bracket
3. LH Engine Mount Bracket
4. LH Engine Mount
5. Vacuum Tank Assembly
6. Idle Valve Assembly
7. Bounce Valve Assembly
8. Filter Assembly
9. Engine Mount Vacuum Hose Assembly
10. RH Engine Mount

## Vacuum Operated Engine Mount



2906360

1. Engine Mount
2. Bounce Port

### 3. Idle Port

## Active Grille Air Shutter

### Active Grille Air Shutter Description and Operation

The active grille air shutter actuator closes louvers at the front bumper to enhance vehicle aerodynamics in driving situations where cooling and A/C loads are relatively low and high levels of front end airflow are not required. If high levels of airflow are required the active grille air shutter actuator opens the louvers. The single active grille air shutter system consists of an individual motor operated mechanism hinged behind the vehicle front grille for controlling the amount of air entering the engine compartment. The chassis control module determines shutter state based on various vehicle conditions such as vehicle speed, coolant temperature, fan state, refrigerant system pressure, A/C compressor state and ambient temperature. The vehicle may have to be driven for up to 13 minutes at speeds greater than 25 mph (40 kph) before the shutter begins to move. If a low ambient temperature is detected, the shutter will remain in the closed position.

## Driver Awareness Package / Driver Assist Package

The CTS introduces a network of cameras, radar and ultrasonic sensors to help the driver avoid crashes by improving their vision and awareness of road hazards, even braking automatically if sensors predict the vehicle is at risk of crashing.

- The Driver Awareness Package (standard on Luxury, Performance and Premium Collections) includes the following:
  - Forward Collision Alert (FCA)
  - Lane Departure Warning (LDW)
  - Side Blind Zone Alert (SBZA)
  - Rear Cross Traffic Alert (RCTA)
  - Safety Alert Seat
  - Rear Vision Camera (RVC)
  - IntelliBeam System Headlamps
  - RainSense® Windshield Wipers
  - Windshield-Reflected LED Forward Collision Alert Display.
- The Driver Assist Package (if equipped) includes the following:
  - Full Speed Adaptive Cruise Control
  - Front Automatic Braking as Part of Automatic Collision Preparation
  - Rear Automatic Braking
  - Advanced Safety Belt Tightening
  - Automatic Parking Assist is Included on Performance and Premium Collections

The control and alert technologies are described in the following:

### Automatic Parking Assist (APA)



**Notice:** The system cannot detect whether the selected parking space is a legal parking space.

When the vehicle speed is less than 18 mph (30 km/h) press the APA button on the right side of the center stack to enable the system. The system uses sensors to locate an appropriately sized parallel parking space and then steers the car into the space while the driver controls the brakes and transmission. Instructions are shown on the DIC. The system is set up to search for parking spaces on the right side of the car. To search for spaces on the left side, turn **ON** the left turn signal.

### Safety Alert Seat



3610803

#### Typical View of a Safety Alert Seat Pulsing

The Safety Alert Seat delivers a vibrating pulse, or what is termed a “haptic” alert to the left, right or both sides of the seat cushion. The haptic warning can be de-activated by turning certain related safety systems **OFF**, or be replaced with an audible warning, by using the Vehicle Personalization Settings.

### Forward Collision Alert (FCA) System — Setting the Follow Distance Gap

**Notice:** FCA is a warning system only and does not apply the brakes.

Forward Collision Alert (FCA) uses radar and camera technology to detect and help avoid or reduce the harm caused by a front-end collision. FCA provides an alert on the windshield, and audible beeps or it pulses the Safety Alert Seat when approaching a vehicle directly ahead too quickly, alerting the driver and providing additional time to react. FCA also provides a visual alert if following another vehicle too closely.

FCA detects vehicles within a distance of approximately 197 ft (60 m) and operates at speeds above 25 mph (40 km/h). If the vehicle has Adaptive Cruise Control (ACC), it can detect vehicles to a distance of approximately 360 ft (110 m) and operates at all speeds.



2906796

The driver can set the preferred distance or alerting time using the FCA button on the left hand side of the steering wheel. Press the Follow Distance Gap button (1) to select a distance or time setting for ACC. Select a Gap Setting of Far, Medium, or Near.

#### **Lane Departure Warning (LDW)**

The Lane Departure Warning (LDW) system is a camera-based lane detection system that uses a camera sensor mounted near the inside rearview mirror to detect the lane markings. LDW warns the driver of unintentional lane departures and **may** provide a warning if the vehicle is crossing a lane without using a turn signal. The LDW system activates at speeds above 35 mph (56 km/h).

When the vehicle crosses a detected lane marking, the LDW indicator will flash and either three beeps will be sounded from the left or right speaker, or three Safety Alert Seat pulses will occur on the left or right side of the seat, depending on the lane departure direction.

**Notice:** LDW will not warn if the turn signal is ON or if a sharp maneuver is made.

If a turn signal is not used, the LDW indicator will flash and either three beeps will be sounded from the left or right speaker, or three Safety Alert Seat pulses will occur on the left or right side of the seat, depending on the lane departure direction.

#### **Rainsense Automatic Wipers**

Rainsense automatic wipers use the forward camera to “read” the moisture on the windshield and automatically adjust wiper intervals accordingly.

#### **Automatic Collision Preparation (ACP)**

Automatic Collision Preparation uses data provided by the front camera, radars and sensors to determine if a collision is imminent. When the vehicle sensors determine a collision is imminent, it uses the Intelligent Braking System to pre-fill and apply braking to lessen the impact severity of the incident or perhaps enable the driver to avoid the incident altogether.

#### **Front Automatic Braking (as part of Automatic Collision Preparation)**

This system detects when a frontal collision is imminent and automatically applies braking to lessen impact severity or perhaps avoid the collision at lower speeds.

#### **Rear Automatic Braking**

This system provides a progression of warnings and detects when a backing collision is imminent and automatically applies braking to lessen impact severity or perhaps avoid the collision.

#### **Full Speed Adaptive Cruise Control (ACC)**

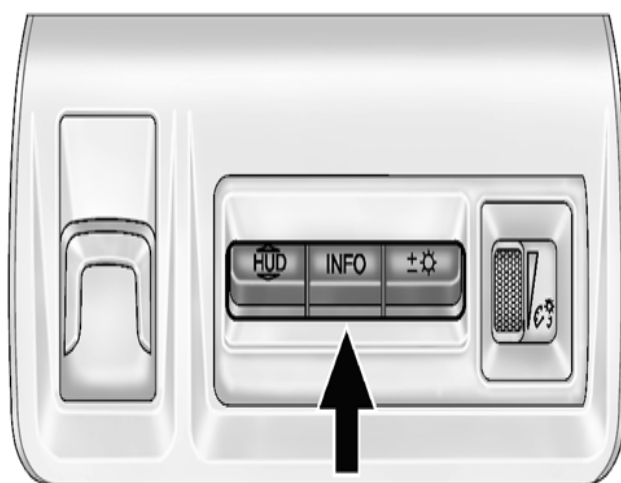
The Full Speed Adaptive Cruise Control uses information from the car’s front radars and other sensors to maintain a selected following distance to the vehicle ahead. The system will even bring the vehicle to a complete stop if needed.



## Full-Color Head-Up Display (HUD)

If equipped, the Full-Color Head-Up Display allows the driver to configure and display selected information on the windshield in the driver's line of sight. The HUD may display some of the following vehicle information and vehicle messages or alerts:

- Speed
- Tachometer
- Audio
- Phone
- Navigation
- Collision Alert
- Cruise Control
- Lane Departure
- Low Fuel

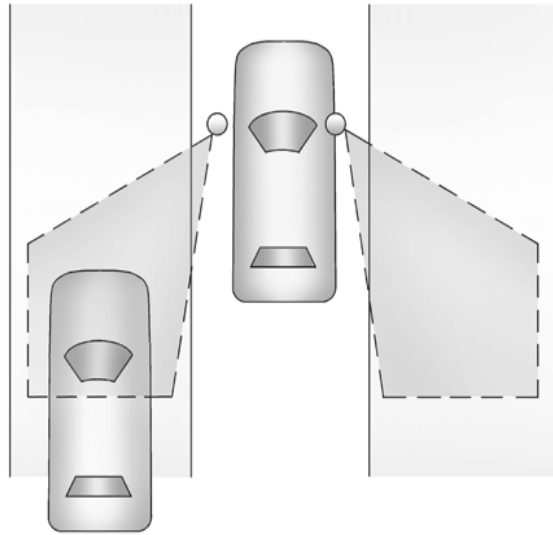


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The HUD Control is to the left of the steering wheel. To adjust the HUD image, select the data display and change the brightness, perform the following:

1. Adjust the driver seat.
2. Start the engine.
3. Press the left side **HUD** button **down** or **lift up** to center the HUD image. The HUD image can only be adjusted up and down, not side to side.
4. Press the middle **INFO** button to select the data display view. Release when the desired data display is shown on the HUD. If vehicle messages are displayed, pressing the DIC select button may clear the message.
5. To change the brightness of the display use the right side button with the +, – and lamp icons. **Lift up** and **hold** to brighten the display. Press **down** and **hold** to dim the display. Hold down to turn the display **OFF**.

## Side Blind Zone Alert (SBZA)



2866901

Using radar sensors in the left and right side corners of the rear bumper, the system looks for vehicles in the blind zone areas and indicates their presence by illuminating symbols in the outside rear view mirrors. The sensors cover a detection zone of approximately one lane over from both sides of the vehicle, approximately 11 ft (3.5 m) and extends rearward approximately 16 ft (5 m). The height of the zone is approximately between 1.5 ft (0.5 m) and 6 ft (2 m) off the ground.

This SBA system does not provide any Haptic feedback.

## Rear Cross Traffic Alert (RCTA)



2866857



2866870

Using radar sensors, the driver is alerted of approaching cross traffic when backing out of a parking spot - including angled parking. Using the display in the center stack, with dynamic guidelines laid over the video image, a natural view of objects directly behind the vehicle are provided. Left or right side visual and audible alerts are triggered if moving vehicles are detected.

#### **Rear Vision Camera (RVC) With Dynamic Guidelines Assists in Parking Maneuvers**



2900687



2900694

Using the display in the center stack, with dynamic guidelines laid over the video image, a natural view of objects directly behind the vehicle are provided. The video image can be used to assist in parking maneuvers.

## 10 Airbags



2868195

Airbags are designed to supplement the protection provided by safety belts.

**Notice: The vehicle is equipped with 10 airbags as follows:**

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

## Safety Locks

When activated, the rear door safety locks prevent passengers from opening the rear doors from inside the vehicle. The rear door power windows are also disabled.

## Bluetooth® System

The in-vehicle Bluetooth® system is standard on all models. The Bluetooth® system allows users with a Bluetooth® enabled cellphone to make and receive hands-free calls using the vehicle's audio system, microphone and controls. The Bluetooth® enabled cellphone **MUST** be paired with the vehicle Bluetooth® system **BEFORE** it can be used in the vehicle.

Not all Bluetooth® cellphones will work with the vehicle's Bluetooth® system or support all functions. Bluetooth® enabled cellphones will be tested for vehicle compatibility and a Feature Compatibility list will be published on the Bluetooth® website.

**Notice:** To Canadian Dealers, the following is a United States website that is presented in English only. Canadian carriers are not listed directly, but when identified, the phone model functions are similar.

For more information go to: <http://www.onstar.com/web/bluetooth>

On the Bluetooth® Home page, Go to: Pair Your Phone > Select Vehicle > Select Make > Select Cadillac > Select Year > Select 2014 > Select Model > Select CTS > Select Radio (the vehicle's radio system) > Select Submit > Select Compatible Devices > Select Your Device

## Power Window Operation

### Express Window Operation

The express feature allows the windows to be raised and lowered all the way without holding the switch. Press or pull the switch fully and release it to activate the express feature. Cancel the express mode by briefly pressing or pulling the switch.

## AM-FM Antenna Grid / Multi-Band Antenna

### AM-FM Antenna Grid

The AM-FM antenna is integrated with the rear window defogger in the rear window.

### Multi-Band Antenna

The roof antenna is for OnStar®, SiriusXM® Satellite Radio, and the Global Positioning System (GPS). Keep clear of obstructions for clear reception. If the vehicle has a sunroof, and it is open, the reception can also be affected.

## Towing A Disabled Vehicle

**Notice:** Please share this information with your towing providers.

### Towing the Vehicle / Flatbed Car Carrier

**Notice:** 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**. A wheel lift tow truck could damage the vehicle.

### Using the Tow Eye

**Notice:** Improper use of the tow eye can cause vehicle damage. Use caution and low speeds to prevent damage to the vehicle. Use the tow eye for loading a disabled vehicle onto a flatbed car carrier. The tow eye should not be used to recover a vehicle from an off road situation.

Carefully open the cover in the fascia 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.



## Special Tools

Tool #	Description
CH-45666	ELSD Hose Connector Release Tool (Rear Drive Axle)
DT-51381	ELSD Bleeder Adapter (Rear Drive Axle)
EN-21867-850	Oil Pressure Gauge Adapter (Engine Mechanical - 2.0L RPO LTG)
EN-51332	Fuel Line Connector Release Tool (Engine Controls and Fuel - 3.6L RPO LFX or 3.6L RPO LF3)
GE-47716-30	Adapter, Cooling System Fill (Engine Heating and Cooling)
GE-50389	Coolant Pressure Test Quick Connector (Engine Heating and Cooling)

## Quality Pre-Delivery Inspection (PDI)

Please be sure to review the Pre-Delivery Inspection (PDI) and Completely Satisfied Delivery System (CSDS) forms published for this vehicle. There are several Special Inspection Items highlighted for this vehicle. Additionally the CSDS form has important customer education items that have been identified during the Captured Test Fleet process.

- United States Dealers should report any product issues via a Field Product Report (FPR). Refer to the latest version of Corporate Bulletin Number 02-00-89-002 Information for Dealers on How to Submit a Field Product Report.
- Canadian Dealers should report any product issues via a Product Information Report (PIR). Refer to the latest version of Corporate Bulletin Number 10-00-89-006 Information for Dealers on How to Submit a Product Information Report.

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