

# Meet the New Buick Envista



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The 2024 Envista is an all-new model in the Buick lineup. With a long wheelbase, low roof and the sleek profile of Buick's new design language, it offers the cargo space and utility of a small SUV along with the sporty proportions and ride dynamics of a sedan.

There are three distinct trims: Preferred, Sport Touring (ST) with a sporty interior and dark tinted exterior accents, and the luxurious Avenir with exclusive chrome finishes, a three-dimensional woven grille pattern and clear tinted tail lamps.

## INTERIOR DESIGN



Envista interior features the Ultrawide Infotainment Display.

The interior design of the Envista is centered around the Ultrawide Infotainment Display that features an 11-inch diagonal HD color infotainment touchscreen and an 8-inch diagonal color driver display. The Envista uses the Global A electrical architecture.

The driver display can be customized with a choice of several display layouts. To view the Gauge Faces menu, press and hold the thumbwheel on the right side of the steering wheel for 2 seconds.



The driver display can be customized with a choice of several display layouts.

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The infotainment system (RPO IVA) connects to the cluster display using an LVDS cable. The infotainment system features standard wireless Apple CarPlay and Android Auto capability. An available wireless phone charging pad is in the center console along with USB-A and USB-C ports.

Note: Apple CarPlay is a trademark of Apple, Inc. Android and Android Auto are trademarks of Google LLC. User terms and privacy statements apply.

The infotainment system can display the status of a number of vehicle systems, including maintenance items and gauges, which also can be set to be viewed on the cluster display. Select the Vehicle Status icon on the infotainment screen for access to the Maintenance, Gauges and Trip menus.



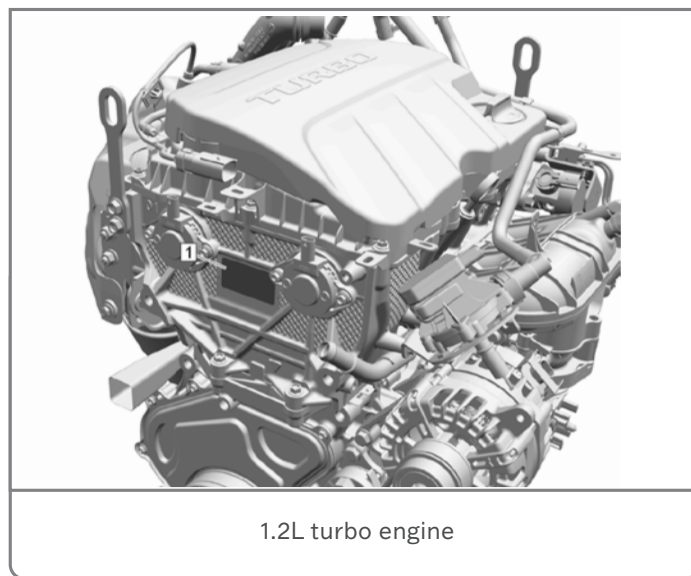
Maintenance, Gauges and Trip menus

Storage capabilities of the Envista include up to 42 cubic feet of room with the 40/60-split rear seats folded, providing enough space for 7-foot items (stowed diagonally). A power liftgate is available on Preferred and ST trims and standard on the Avenir trim.

## POWERTRAIN

Powering the Envista is a 1.2L turbocharged engine (RPO LIH) and Hydra-Matic 6T40 6-speed automatic transmission (RPO MNH). The engine produces a GM-estimated 136 horsepower and 162 lb.-ft. of torque while delivering a GM-estimated combined 30 mpg.

The DOHC, direct-injected 1.2L engine features an aluminum block and cylinder heads for lightweight, efficient operation. The engine is equipped with a central direct injection system that consists of 3 separate direct injection fuel injectors, one high



1.2L turbo engine

pressure fuel rail, and a high pressure fuel feed pipe that connects the high pressure fuel pump to the fuel rail. The engine cooling system uses an Active Thermal Management strategy to maintain an ideal engine operating temperature during all engine speeds and operating conditions.

The single-scroll turbocharger is mounted to the cylinder head. It uses an air-to-air charge air cooler system, mounted on top of the radiator, which draws in fresh air through a heat exchanger to reduce the temperature of the warmer compressed air forced through the intake system. Inlet air temperature can be reduced by up to 100°C (180°F), which enhances performance due to the higher density of oxygen in the cooled air that promotes optimal combustion. The charge air cooler is connected to the turbocharger and to the throttle body by flexible ductwork that requires the use of special high torque fastening clamps. In order to prevent any type of air leak when servicing the ductwork, the tightening specifications and proper positioning of the clamps is critical and must be strictly adhered to.

## SUSPENSION SYSTEM

The front suspension of the Envista is a MacPherson strut design with coil-over springs and a direct-acting stabilizer bar. The standard rear suspension is a torsion beam with coil springs, while a Watts Link suspension is available on the ST trim and standard on the Avenir trim.

Each trim level features a specific wheel size:

- Preferred – 17-inch aluminum wheels
- ST – 18-inch high-gloss black painted aluminum wheels
- Avenir – 19-inch Pearl Nickel aluminum wheels.

CONTINUED ON PAGE 4

# Upfitter Auxiliary Switch LED Indicators

The LED “on” indicators on the upfitter auxiliary switches (RPO 9L7), located on the instrument panel, may not illuminate properly on some 2023 Silverado 1500, Sierra 1500; 2024 Silverado 2500/3500 and Sierra 2500/3500 models.

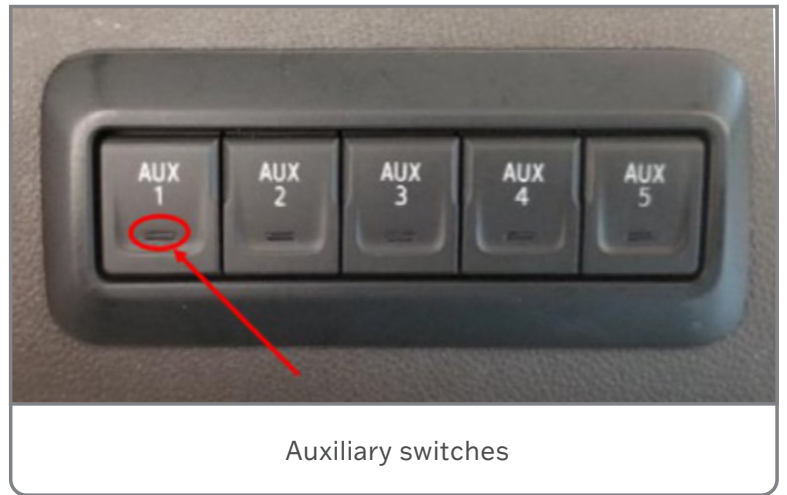
With only one auxiliary switch on, the LED indicator may illuminate. However, if more than one switch is turned on, the LED indicators will not illuminate.

Regardless of how many auxiliary switches are turned on, the auxiliary switches will operate the auxiliary equipment. Only the “on” indicators on the switches are affected by this condition. Do not replace any components or auxiliary equipment.

If the auxiliary switches are not illuminating correctly, reprogram the Body Control Module (BCM) with the latest calibrations.

Refer to #PIT6040 for additional information.

► Thanks to Jim Will



ENVISTA, CONT.



A Watts Link suspension is standard on the Avenir trim

## BUICK DRIVER CONFIDENCE PACKAGE

The standard Buick Driver Confidence package has six active safety and driver assistance technologies, including:

- Automatic Emergency Braking (RPO UHY)
- Front Pedestrian Braking (RPO UKJ)
- Lane Keep Assist with Lane Departure Warning (RPO UHX)
- Forward Collision Alert (RPO UEU)
- Following Distance Indicator (RPO UE4)
- IntelliBeam Auto High-beam Headlamps (RPO TQ5)

Other available safety and driver assistance features include Adaptive Cruise Control, Lane Change Alert with Side Blind Zone Alert and Rear Cross Traffic Alert.

Note: Safety or driver assistance features are no substitute for the driver's responsibility to operate the vehicle in a safe manner.

For more information about the all-new Envista, refer to Bulletin #23-NA-083.

► Thanks to Frank Jakubiec

# Maintaining Seat Belt and Retractor Guide Cleanliness

Some fleet drivers of BrightDrop EV vans may notice proper seat belt operation is affected by the cleanliness of the belt and retractor guide. Due to the high amount of seat belt cycles that occur on a daily basis on these vehicles during commercial use, the seat belts may come in contact with dust, dirt and debris more frequently than a non-fleet customer.

The seat belt webbing and the retractor guide must be clean and free of dust, dirt and debris to maintain the proper operation of the restraint system.



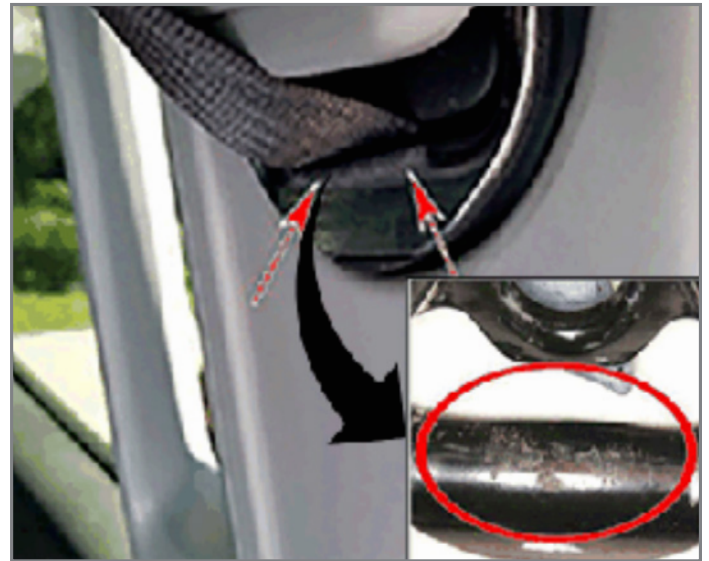
## CLEANING THE RETRACTOR GUIDE



To improve the operation of a dirty seat belt, the seat belt retractor guide should be cleaned using the hook side of plastic hook and loop tape or equivalent. Lift up the seat belt to access the retractor guide on the B pillar.

Gently rub the retractor guide with the plastic hook side of the tape to remove any contamination buildup. Move the seat belt to clean each side of the guide surface.

After cleaning is completed, verify retraction of the seat belt has improved.



For more information, refer to Seat Belt Retractor Guide Cleaning in the appropriate Service Information.

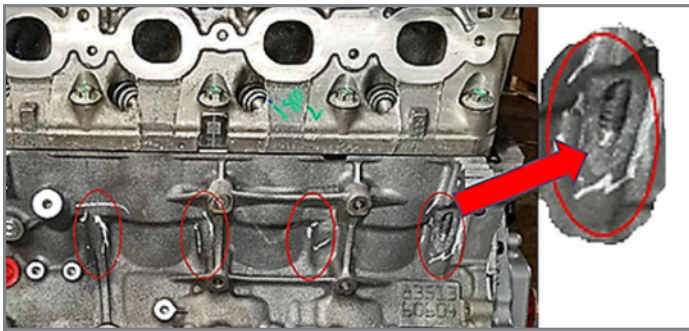
It also will be helpful to refer customers to the following procedures to maintain optimal seat belt performance:

- Seat Belt Care in the Owner's Manual
- Interior Care in the Owner's Manual

► Thanks to Kayla Miller

# Clean Head Bolt Holes Before Cylinder Head Installation

During any service repair on 2024 and earlier GM models that involves cylinder head removal, installation or replacement, it's critical that all dirt, debris and coolant be cleaned from the engine block cylinder head bolt holes. Any foreign material not removed from the bolt holes may result in damaged threads or improperly tightened fasteners, and may lead to damage to the engine block or other components.



Foreign material in the bolt holes during assembly can lead to the casting cracking or breaking.

In some cases, the engine block may crack due to debris, dirt or coolant that is left in the cylinder head bolt holes of the block. Foreign material that is in the bolt holes during cylinder head assembly can create a hydro-lock condition that will over-pressurize the casting column of the threaded hole in the block, causing the casting to crack or break.

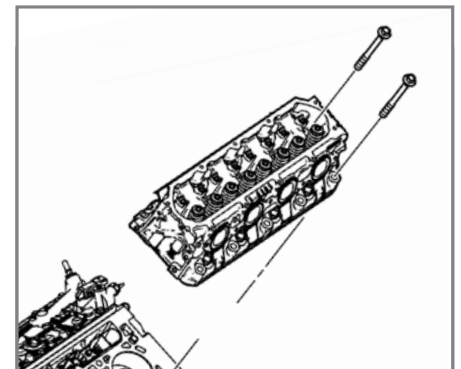
The head bolt threads also may be damaged if there is foreign material in the bolt holes when installing the cylinder head.

## CYLINDER HEAD INSTALLATION

Before performing any repairs involving cylinder head installation or replacement, be sure to:

- Clean all dirt, debris and coolant from the engine block cylinder head bolt holes.
- Clean bolt holes using spray solvent and compressed air.
- Inspect and repair, if necessary, the threads of the head bolt holes following the appropriate Service Information procedures.

The Cleaning and Inspection Procedures will be updated in the Service Information to include additional information on the proper process to follow during cylinder head installation to help prevent damage to the engine block.



Clean and inspect the head bolt holes before cylinder head installation.

Debits for warranty repairs will be issued for any failure or damage to the vehicle due to improper service, non-return of parts, or after the inspection results by the Warranty Parts Center.

For additional information, refer to Bulletin #23-NA-141.

► Thanks to Bryan Salisbury

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