

## Guidelines for Successful Installation of GM Accessories



*Prior to beginning installation of a GM Accessory, there are a number of guidelines to follow that can help prevent incompatible accessories from being installed.*



**Roof Panel Pop Sound**

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# Guidelines for Successful Installation of GM Accessories

Before installing a variety of GM Accessories, such as keyless entry, upsize wheels and tires, lights/cargo lamps and others, on GM vehicles, it's important to check for vehicle compatibility, if a calibration update from the Techline Customer Support Center (TCSC) is required and that an authorization code is available. Checking all of these items as well as several others before starting installation will help ensure that the installation of GM Accessories is successful.

For example, if programming is attempted before contacting TCSC when installing accessories that require an updated calibration, the Service Programming System (SPS) will not deliver the correct accessory calibration to the vehicle



## ACCESSORY/RECONFIGURATION BEST PRACTICES

Prior to beginning installation of an accessory, there are a number of guidelines that should be followed by dealerships. These guidelines can help prevent incompatible accessories from being installed on GM vehicles and assist in the installation process so that the accessory as well as related components function properly.

## CREATE A DCM CASE

It is recommended to create a case in Dealer Case Management prior to beginning work on a vehicle and to check back after creating the case for additional instructions and other information.

Here is an example template with the information needed when submitting an accessory/reconfiguration case:

- Name:
- Contact Number:
- BAC:
- VIN:
- Accessory/Reconfiguration Requested (include RPO):
- Kit Part Number (if applicable):
- Authorization Code (if applicable):

## GET THE AUTHORIZATION CODE

Verify any required authorization code is included with the accessory materials before reaching out to TCSC.

In addition, always verify the VIN on the repair order against the VIN plate of the vehicle being worked on so the correct vehicle is updated.

## INCLUDE PART NUMBERS AND RPOS

Be sure to include any relevant part numbers and RPOs for the accessory and reconfiguration in the DCM case. If these are not provided, TCSC may be unable to complete the required update.

PTW - 18" HIGH GLOSS BLACK ALUMINUM  
QF6 - ALL-TERRAIN TIRES  
QT6 - TAILGATE, WITH LIFT ASSIST AND POWER LOCK

P28 - HITCH GUIDANCE W/  
HITCH VIEW  
QK1 - TAILGATE  
R6F - B-CODE ASSIGNMENT  
VOMS

Include any relevant part numbers and RPOs for the accessory/reconfiguration in the DCM case.

## CHECK SERVICE INFORMATION

Check the Service Information for any vehicle requirements needed for the accessory or reconfiguration. For example, new 22-inch tires may require a specific spare tire be installed on the vehicle.

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### Tires and Wheels Description and Operation (22 Inch Wheel Usage)

Accessories Wheel Usage Matrix 22" Wheels					Spare Tire/Wheel Requirement								
OEM Build Condition			Upgrade Requirements and Restrictions										
Model Year	Make	Model	Series/Body Style	OEM Wheel Size	Approved Road Tires	Approved Usage	Spare Tire/Wheel Requirement	Install Tire Placard Label	Electronic Brake Control Module (EBCM) (FNA 4003A)	Engine Control Module (ECM) (FNA 4004A)	Electronic Power Steering (EPS) (FNA 4045C)	Electronic Suspension Control Module (ESCM) (FNA 7000A)	NOT APPROVED with 22" OEM spare tires ZHC, ZKT

Check SI for any vehicle requirements needed for the accessory/reconfiguration

Installation sheets for GM Accessories can be found in the Accessories Manuals in the Service Information.

**TIP:** To help find the correct accessory installation instructions, most GM Accessories come with a single-page sheet that includes the Instruction ID Part Number, which is searchable in the Service Information Accessories Manual for each model.

## VERIFY YEAR/MODEL IS SUPPORTED

Using the GM Online Order/Reference Guide, verify that the Year/Model vehicle supports the change being requested. Pay particular attention to the specific content and trim level. For example, ZW9 or Fast Flash updates may not be supported on higher trim levels such as LTZ/3LZ in certain cases.

Description	Work Truck 1WT	Custom 1CX	LT 1LT	202 3LT	LTZ 3LT	High Country 3LT
<b>Pickup bed:</b> delete, includes capped fuel filler (SPV) Back-up alarm calibration, (SLV) rear bumper delete, (7LZ) spare tire delete and spare tire carrier delete. <b>Deletes:</b> (SAP) tire carrier lock, standard tailgate and (A00) locking tailgate. 1. Requires long bed model and 17" or 18" wheels. Not available with (S02) LTZ/3LT/3LTZ multi-trim package (blackout trim). 2. Requires long bed model and 18" wheels. Not available with (S02) LTZ/3LT/3LTZ multi-trim package (blackout trim) or (D00) Technology Package. Deletes (H1) rear wheelhouse trim.	A1	-	A1	-	A2	-

Use the GM Online Order/Reference Guide to verify that the Year/Model vehicle supports the reconfiguration change.

## ADDITIONAL REQUIREMENTS

Certain reconfigurations, such as speed governors, have additional requirements where it may be necessary to provide photos of any upfits on the vehicle (if RPO ZW9 is present). On vehicles from a fleet company or law enforcement agency, proof of ownership or a letter of approval may be needed before changes can be completed.

## UNDERSTAND SYSTEM OPERATION

Once a reconfiguration is completed, be aware of certain circumstances that can prevent an accessory or reconfiguration from functioning properly. Remote start, for example, won't work if the vehicle is low on fuel, a window is lowered, the hood or a door is open, or the Check Engine MIL is illuminated.

It may be necessary to double-check installation if the accessory is not functioning properly after an update.

Be aware of certain circumstances that can prevent an accessory or reconfiguration from functioning properly.

## INSTALLATION QUESTIONS

The following sources are available to help dealerships with the installation and operation of GM Accessories.

**Techline Customer Support Center** – Programming concerns with GM Accessories.

**Technical Assistance Center** – Installation information or help with diagnosing problems related to the installation.

**Partech** – Accessory installation sheets, missing kit components, quality issues, and vehicle compatibility questions. Call Partech at 1-855-GMCARES (1-855-462-2737), select prompt 2.

**Accessory Distributor Installer (U.S.)** – Limited Production Option (LPO) parts

More information about calibrations for Limited Production Option (LPO) Accessories can be found in Bulletin #22-NA-053.

► Thanks to Anthony Guarnieri

# Roof Panel Pop Sound

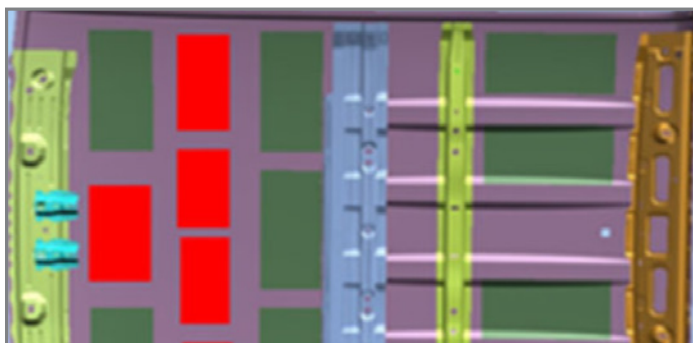
When driving through an automatic car wash, a loud pop (oil canning) sound may be heard on some 2023-2025 Colorado and Canyon trucks. The pop sound may be the roof panel flexing from the force of the industrial air dryer at the end of the car wash.

There is an updated repair procedure now available that applies to all 2023-2025 Colorado and Canyon models without a sunroof (RPO CAC), built before breakpoint 2/3/25. It addresses the flexing of the roof panel by applying stiffening patches as well as installing a longitudinal roof bow to the underside of the roof panel.



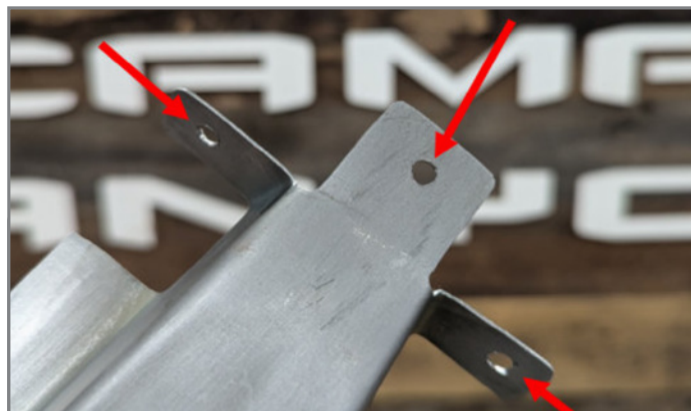
Stiffening patches and longitudinal roof bow

After completing any paint or body repairs needed to the roof, the stiffening panels should be installed to the underside of the roof panel in five locations at the front of the roof area.



Five locations of the stiffening panels.

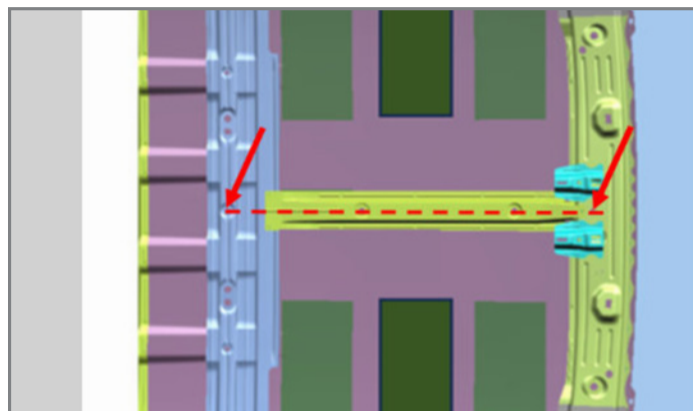
**TIP:** The headliner will need to be dropped, but not removed, for installing the panels and roof bow.



Pre-drill the holes for the rivets.

If the stiffening patches have been installed as part of an earlier repair, it's not necessary to remove any of the stiffening panels before installing the roof bow.

Begin installation by pre-drilling the five locations for the rivets on the roof bow.



Align the center line of the roof bow to the center line in the roof bars.

The pre-drilled roof bow will be used as a template on the underside of the roof structure. Be sure to properly align the center line of the roof bow to the center line in the roof bars.

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# MDI 2 Order Lead Times Update

The EL-52100 MDI 2 is required for control module programming, configuration and setup on GM vehicles equipped with the Vehicle Intelligence Platform (VIP) electrical architecture.

The MDI 2 and accessories are available to order through [gmmdi.service-solutions.com](http://gmmdi.service-solutions.com) (administered by Bosch).

Due to large volumes of MDI 2 orders, the website may reflect an out of stock message. However, an order can still be placed and Bosch will process the orders as usual. Fulfillment times may be up to two weeks, but orders may ship sooner depending on tools and accessories in stock.

**TIP:** The latest GM Dealer Infrastructure & Security Guideliness recommend one MDI 2 for every Techline PC.

## VIP ARCHITECTURE

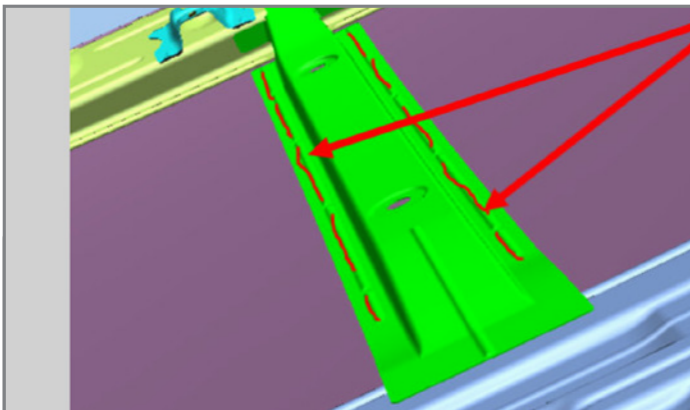
The VIP architecture, which debuted on some 2020 model year vehicles, offers enhanced capacity and the ability to better manage complex technology. With the capability of managing over 100 computer modules, it's able to support active safety systems, Over-the-Air (OTA) vehicle software updates, 5G networks, enhanced cybersecurity protections and EV technologies.

Contact the Techline Customer Support Center (TCSC) at 1-800-828-6860 with any questions about MDI 2 orders.



► Thanks to Chris Henley

ROOF PANEL, FROM PAGE 4



Panel-vibration control material along the length of the roof bow

Once all holes are drilled using a depth-control device on the drill bit, apply the appropriate structural adhesive to both ends of the roof bow and panel-vibration control material to the length of the roof bow. The roof bow should be installed to the vehicle with the rivets.

Once the stiffening panels and roof bow are installed, reinstall the headliner and verify the condition is corrected.

For complete details for the repair procedure, including part numbers, refer to Bulletin 23-NA-209.

► Thanks to Jonathan Johnson

# DTCs Set Due to Wiring Harness Condition



There may be several communication DTCs set along with several Driver Information Center messages — Service Power Steering, Service StabiliTrak, Service Rear Drive, Service Restraint System — displayed on some 2020-2024 CT5 and CT5-V models.

Check if one or more of the following DTCs are set: U0075 (Control Module Communication CAN Bus 1 Off), U0131 (Lost Communication with Power Steering Module), U0151 (Lost Communication with Restraints Control Module), U0420 (Invalid Data Received from Power Steering Module), U0452 (Invalid Data Received from Restraints Control Module), B197D (No Environment Identifier Received from Restraints Control Module).



CAN 1 circuit 4987 BU cut

If these DTCs are set, inspect the passenger seat frame for a short of CAN 1 circuits 4986 or 4987. The wiring harness may be chaffing on the seat frame. .

If there is damage to the wiring harness, repair the harness following the wiring repair procedures in the appropriate Service Information.

After repairs are completed, reroute the wiring harness to prevent any contact with the seat frame.

Refer to #PIC6597 for more details.

► Thanks to David Antal



After wiring repairs are completed, reroute the wiring harness.

# Low Oil Pressure at Idle

Low and erratic oil pressure at idle may be found on some 2024-2025 Acadia, Traverse; and 2025 Enclave models equipped with the 2.5L engine (RPO LKO). DTC P06DD (Engine Oil Pressure Control Valve Performance) also may be set.

If these conditions are present, verify the engine oil pressure is erratic at idle. The oil pressure will typically be toggling very rapidly at an idle when the engine oil temperature is warm.

Once low or erratic oil pressure is confirmed, remove the oil pan and the balancer shaft assembly in order to inspect the four piston oil nozzles.

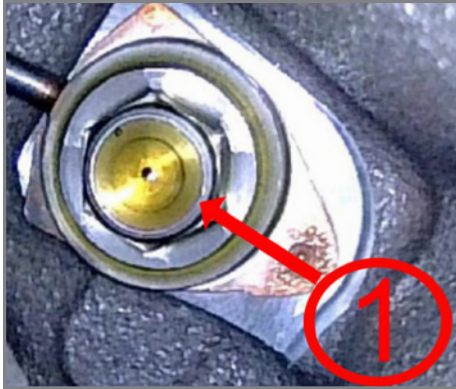
The center portion of the nozzle may be loose or missing from the piston nozzle.

When the nozzle is removed, the center portion components may be sitting on top of the balancer shaft assembly in the oil pick-up screen or in the bottom of the oil pan.

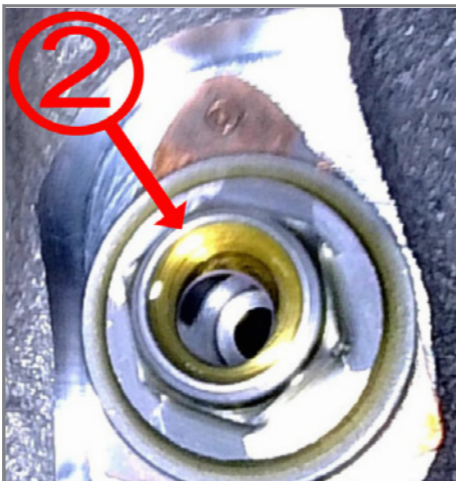
Some of the components from the center portion may not be found and may have exited the engine through the oil drain plug opening during an oil change.

If any of the piston oil nozzles are found to be missing components or damaged, replace all nozzles following the procedures in the appropriate Service Information.

For more details, refer to #PIP6044.



Check for the center portion (#1) of each piston oil nozzle.



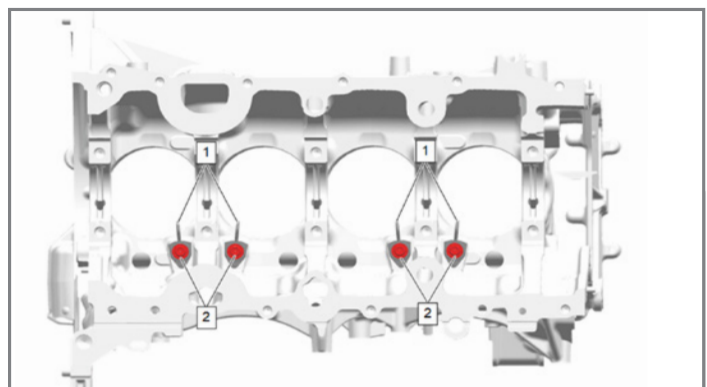
Piston oil nozzle with missing center portion



Some components may be found in the oil pick-up screen.



Examples of components that may be missing from the center portion of the piston oil nozzles.



Piston oil nozzles (#1)

► Thanks to David Rutkowski

# Heavy Fuel Use Message

There may be a “Heavy Fuel Use” message on the Driver Information Center (DIC) at times while driving on some 2023-2025 Escalade, Silverado 1500, Tahoe, Suburban, Sierra 1500, Yukon; 2024-2025 Silverado 2500HD/3500HD and Sierra 2500HD/3500HD models.

The DIC message will be displayed when the fuel range is low and the vehicle is consuming more fuel because of aggressive driving or towing.

The “Heavy Fuel Use” message indicates that the fuel range may be decreased due to current driving habits. It is an informational message for the driver to help in understanding the current operating status of the vehicle and is a normal condition.

If this message is displayed, it does not indicate any concerns with the fuel system. No repairs are necessary.

For more information, refer to #PIT6224A.

► Thanks to Jim Will



“Heavy Fuel Use” message



The DIC message will be displayed during aggressive driving or towing when the fuel range is low.

## TECH LINK

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