

## Hands-Free Start POWER MODES



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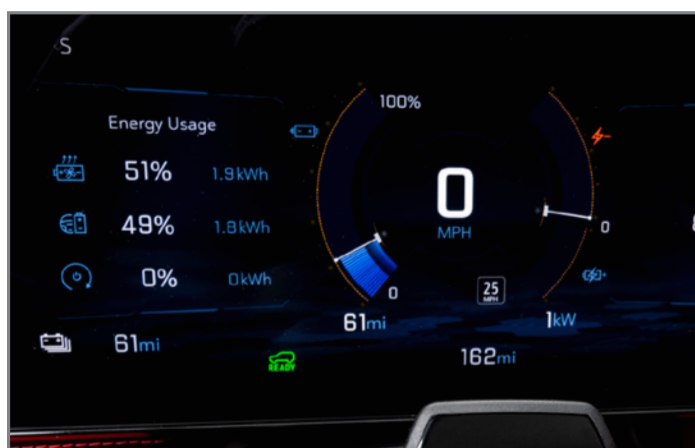
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# Hands-Free Start Power Modes

The 2024 Silverado EV and Blazer EV are equipped with Hands-Free Start, which automatically starts the vehicle when the driver enters the cabin with a remote key fob and then presses the brake pedal or closes the door. A message will display on the Driver Information Center stating how to turn on the vehicle as a reminder to the driver. Plus, a Vehicle Ready indicator will illuminate on the instrument cluster, indicating the vehicle is in propulsion mode, and an active battery gauge will be displayed when the vehicle is ready to be driven.



In Propulsion Mode (Vehicle ON), all features are enabled and propulsion is active.

## POWER MODES

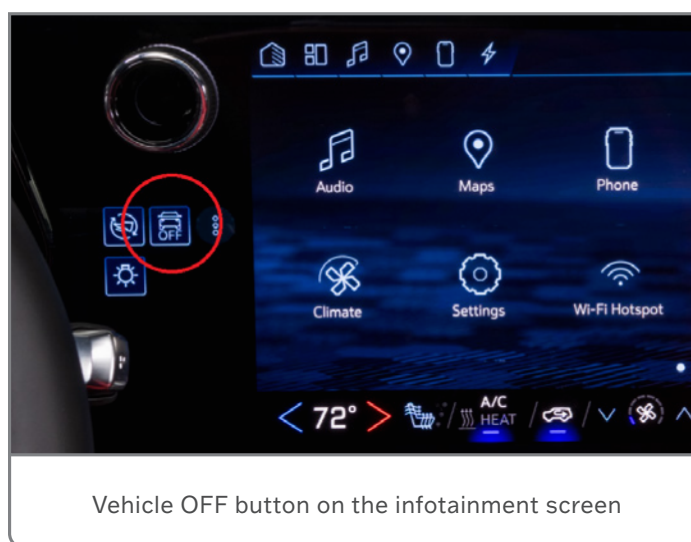
The Body Control Module (BCM) is the Power Mode Master and uses various vehicle status conditions and inputs to determine the desired vehicle Power Mode state.

With Hands-Free Start, there are three power modes:

- OFF (Vehicle OFF) – A low-power mode that allows maximum stand time until the next start request. All features are disabled, and propulsion is inactive.
- RUN (Service Mode) – All features are enabled, but propulsion is inactive.
- PROPULSION (Vehicle ON) – All features are enabled, and propulsion is active.

## VEHICLE OFF

When the vehicle is shifted to Park, the vehicle will turn off when a driver exit is detected. The driver must unbuckle the seat belt, release the brake pedal and open the driver's door in order for the vehicle to power off. Retained Accessory Power (RAP) will remain active until the driver's door is opened.



Vehicle OFF button on the infotainment screen

If the vehicle has not been shifted out of Park, it will not turn off based on driver-exit detection and will need to be turned off using the virtual OFF button on the infotainment screen or by waiting for the automatic power mode time out.

During some programming events, the virtual vehicle OFF button on the infotainment screen may not be available. In order to turn the vehicle OFF in this condition, close the driver's door, depress the brake pedal and then place the vehicle in Drive for 3 or more seconds. After a few seconds, place vehicle back in Park, release the brake pedal and then open the driver's door.

## SERVICE MODE

To enter Service Mode, the vehicle must be off with the driver's door open and the remote key fob in range. The brake pedal should not be applied. Press and release the accelerator pedal three times within 5 seconds and keep the accelerator pedal



Service Mode is identified by the red icon on the instrument cluster.

pressed down the third time until the vehicle enters Service Mode. While in Service Mode, the driver's door can remain open or be closed to complete any diagnostic procedures.

The vehicle will not shut off after the driver's door is opened and then closed while in Service Mode. To turn off the vehicle, it will either need to be turned off by using the OFF button sequence on the infotainment screen or by placing the vehicle back into Propulsion Mode and then using the driver exit steps mentioned previously.

The remote key fob must be out of range to remain in Service Mode while performing any procedures that require brake pedal application.

If the brake pedal is momentarily pressed while the remote key fob is in range, the vehicle will exit Service Mode and immediately enter into Propulsion Mode (Vehicle ON/Propulsion Active).

TIP: The automatic power mode time out and enhanced battery saver mode are disabled when in Service Mode. A low or dead battery may result if the vehicle is left in Service Mode for an extended period of time. The vehicle should only be in Service Mode to support ongoing vehicle diagnostics.

## PROPULSION MODE

To enter Propulsion Mode:

- With the vehicle OFF, open the driver's door, and then either press the brake pedal or close the driver's door with the remote key fob in range.
- With the vehicle in Service Mode, press and release the brake pedal while the remote key fob is in range.

If the remote key fob is left in range after turning the vehicle OFF, it will not enter Propulsion Mode again when opening and closing the driver's door. The vehicle will only enter Propulsion Mode again after the brake pedal is pressed. In addition, if the remote key fob is not moved for 1 hour, it will become inactive and the vehicle will remain off after opening and closing the driver's door or pressing the brake pedal.

## AUTOMATIC POWER MODE TIME OUT

If the vehicle is left stationary and not shifted out of Park or the brake pedal is not pressed while in Propulsion Mode, the vehicle will automatically turn off after approximately 60 minutes. The time out system is designed to prevent the 12V and high-voltage batteries from depleting in the event the vehicle is left on while unattended. The Power Mode Master is responsible for turning off or transitioning the vehicle into a lower parasitic sleep state. If any of the conditions are not met and/or if there is a change in the Park position or brake pedal status, the timer will restart until all of the conditions are met again.

For additional information about the Power Modes, refer to the appropriate Service Information.

► Thanks to Bill Taylor and Chris Semanisin

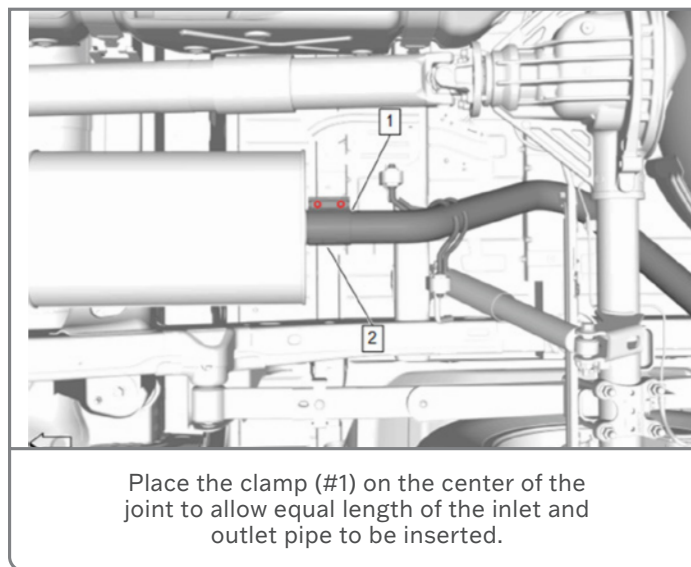
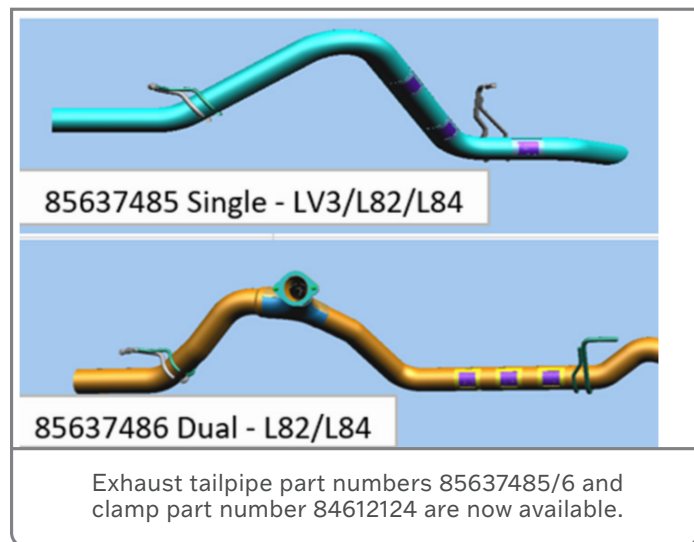
# New Service Tailpipes Available for Silverado and Sierra



GM Customer Care and Aftersales has released new service tailpipes and clamps for exhaust repairs on 2019–2024 Silverado 1500 and Sierra 1500 models equipped with the 4.3L (RPO LV3) and 5.3L (RPO L82, L84) engines.

The replacement tailpipe is a cost-effective alternative to replacing the complete assembly when damage is isolated to only the tailpipe. Since rear collision damage may cause the complete exhaust system to move forward, resulting in damage upstream of the tailpipe, it's important to perform a thorough inspection of the complete exhaust system prior to any repairs.

When installing the service tailpipe, position the clamp on the center of the joint to allow equal length of the inlet and outlet pipe to be inserted. Be sure to trim the tailpipe length as needed to adequately clear surrounding components before tightening the clamp to specification.



Refer to exhaust tailpipe replacement procedures in the appropriate Service Information for additional information.

► Thanks to Kiley Stites

Exhaust tailpipe part numbers 85637485/6 and clamp part number 84612124 have been released to cover single- and dual-exhaust applications for the V6 and V8 engine applications (RPO LV3, L82, L84).

# Lunch with Your FSEs Meetings

## NOW OFFER THREE CONVENIENT CALL TIMES

GM dealership technicians looking to get the latest technical information as well as talk with their Field Service Engineers (FSEs) about recent repairs seen in the dealership should check out the updated “Lunch with Your FSEs” meetings that are held online via Microsoft Teams each month. The meetings provide technicians with the opportunity to learn about common service and repair topics using in-dealership case studies from FSEs in each region.

The one-hour meetings cover specific technical discussions on a number of topics, focusing on repair information that is based on real-world experiences of FSEs while working with dealership technicians. In addition, many meetings are joined by Brand Quality Managers as well as representatives from GM Engineering and Techline.

### NEW MONTHLY FORMAT

The online meetings are now held via Microsoft Teams on the same day — usually the third Wednesday of the month with a

few exceptions. There are three local call times available — 12 pm Eastern, 12 pm Central and 11:30 am Pacific — that make the meetings convenient and accessible for all. Technicians are encouraged to join the meeting that best fits their schedule.

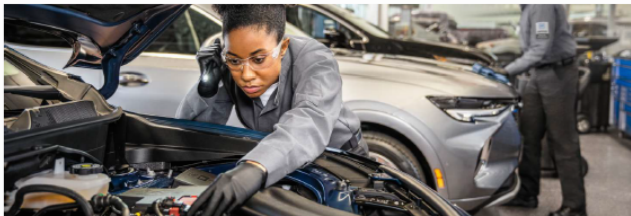
Select the link on the TechLink Home page to view the related GlobalConnect message each month and access the link to sign in to the desired meeting. The Microsoft Teams app is required.

The current meeting schedule for 2024 is:

- February 21
- March 20
- April 17
- May 15
- June 12\*
- July 17
- August 21
- September 18
- October 16
- November 13\*
- December 11\*

\*Second Wednesday of the month.

## 2024 LUNCH WITH YOUR FIELD SERVICE ENGINEERS



Calling all Service Technicians, Shop Foremen, and Service Managers!

Please join our monthly 1-hour call with our Field team and Field Service Engineers! We will discuss common issues we are seeing throughout the country, explore various technical topics from your feedback, and dive into real-world case studies from our FSEs.

SESSIONS ARE HELD ON THE THIRD WEDNESDAY OF EACH MONTH \*\*  
Save the dates for our upcoming meetings in 2024

January 17	February 21	March 20	April 17
May 15	June 12 **	July 17	August 21
September 18	October 16	November 13 **	December 11 **

\*\* Second Wednesday of the month on these dates

Join the call that fits your Schedule!

Eastern Call  
12PM Eastern

Central Call  
12PM Central

West Call  
11:30AM Pacific

## LOOKING FOR FEEDBACK

The FSE teams are always looking for feedback about potential topics to cover during the meetings. Technicians who would like to suggest a particular topic for a future meeting are encouraged to send a message to the email address listed in the GlobalConnect message posted each month. Future meeting discussions will be based on the latest information requested by technicians, so all topic suggestions are welcome.

► Thanks to Dan Beerends, Hank Poelman and Patti Marino

# Headlamps Flashing Due to Low Battery Charge

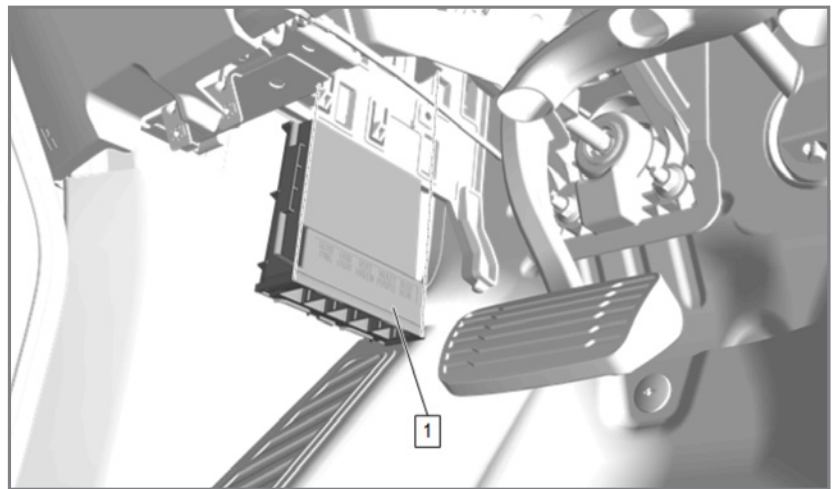


Some 2024 Silverado 2500HD/3500HD and Sierra 2500HD/3500HD trucks may have an electrical condition where the headlamps flash and/or the windshield wipers pause while wiping. DTC P0606 (Control Module Processor Performance) may be set in the Lighting Control Module. The headlamp and/or wipers condition may be caused by a low battery state of charge, which can cause voltage diagnostics to fail in the Lighting Control Module.

The Body Control Module (BCM) communicates with the Lighting Control Module over CAN to request headlamp illumination and wiper operation.

If the vehicle's battery goes below the threshold in the Lighting Control Module during a cranking event or the battery is discharged and needs a jump start, the Lighting Control Module may go into a reset every 8-10 seconds, causing the headlamps to flash.

If the headlamps are flashing, do not replace the Lighting Control Module. Test the battery following the recommended testing procedures in the appropriate Service Information and replace the battery if necessary.



Lighting Control Module

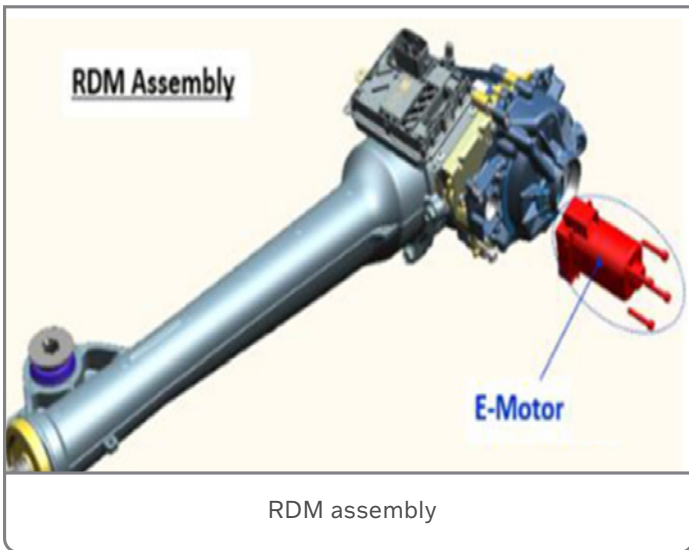
To correct the flashing headlamps and clear DTC P0606, disconnect the battery, which will reset the Lighting Control Module.

For additional information, refer to Bulletin #24-NA-005.

► Thanks to Kevin Minor

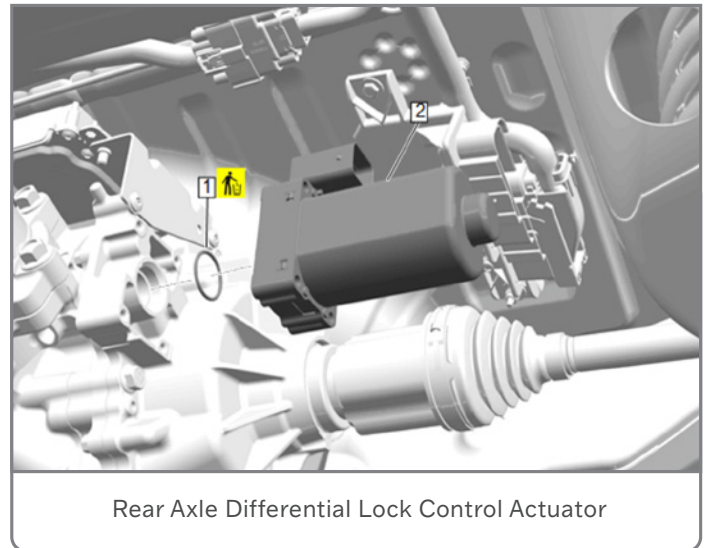
# Rear Axle Differential Lock Control Actuator Condition

A Service All Wheel Drive message may be displayed on the Driver Information Center in some 2020-2023 Encore GX and 2021-2023 Trailblazer models equipped with the 1.3L engine (RPO L3T) and 9T45 automatic transmission (RPO M3F). The message may be caused by the Rear Axle Differential Lock Control Actuator.



Verify the Rear Differential Clutch Control Module (RDCM) has the latest calibrations. In addition, check that the wiring harness connection between the RDCM and e-motor is properly installed.

If the latest calibrations are installed and the wiring harness connection is in good condition, the Rear Axle Differential Lock Control Actuator should be replaced. Refer to Rear Axle



Differential Lock Control Actuator Replacement in the appropriate Service Information.

For more details, including parts information, refer to Bulletin #23-NA-104.

► Thanks to Frank Jakubiec

## TECH LINK

GM TechLink is published for all GM retail technicians and service consultants to provide timely information to help increase knowledge about GM products and improve the performance of the service department.

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