



Service Bulletin

PRELIMINARY INFORMATION

Subject: Drive Motor Generator Control Module (PIM) Part Restriction

Models: 2009-2013 Cadillac Escalade
2009-2013 Chevrolet Silverado
2008-2013 Chevrolet Tahoe
2009-2013 GMC Sierra
2008-2013 GMC Yukon
Equipped With Two-Mode Hybrid System (RPO HP2)

This PI was superseded to update parts information. Please discard PIT4539P.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition/Concern

As part of our ongoing quality improvement process, effective November 12th, 2008 the (Drive Motor Generator Control Module, also known as PIM) for the 2-Mode Hybrid Utilities and Trucks are being placed on restriction through the GM TAC (Technical Assistance Center).

Parts on restriction are:

2008-2009 Full Size Trucks and Utilities PIM Part Number is: 12647259

2010-2013 Full Size Trucks and Utilities PIM Part Number is: 12645548

Note: If the part is being ordered for a non-warrantable concern (i.e. collision, theft, fire...etc.) proceed directly to step 5 below (Valid VIN and proof of ownership required).

Recommendation/Instructions

1. Please have a trained 2-Mode Hybrid technician follow the procedures below prior to contacting TAC.
Note: Do NOT erase DTCs in any of the modules! (Especially on intermittent concerns.) Save the Freeze Frame / Failure Records PRIOR to replacement or reprogramming any module.
2. Please complete the customer questionnaire at the bottom of this document with as much information as possible and as accurately as possible so that it can be e-mailed to TAC.
3. Check and record all diagnostic codes in all modules on the vehicle. The DTCs should be checked by using the following path in the Tech 2.
 - Build Make and Model and Select Hybrid / Vehicle Control System / Select Engine Size / Vehicle DTC Information / DTC Display
4. Be sure to record what module the DTC came from and any symptom codes associated with the DTCs.
Note: See latest version of bulletin 07-07-30-010C for Procedure to Take Snapshot Data with a Tech 2 and Upload Data to a Computer Using TIS Software.
5. If DTCs are set in any of the modules below, please save the captured data for later use. Access the module that has the DTCs listed and use the following path to locate the captured data:
 - Diagnostic Trouble Codes/Additional DTC Information/Store Information/ Refresh Capture Information
 - Accessory Power Module
 - Battery Energy Control Module

Engine Control Module
Fuel Pump Control Module
Hybrid Control Module
Motor Control Module 1 and 2
Transmission Control Module

6. Once the above information has been obtained, please review P.I. and TSB information, as well as any relevant S.I. Diagnostics available.
7. If diagnostics lead to TPIM replacement, contact TAC @ 877-446-8227 (U.S.) or in Canada 1-800-263-7740 (English) or 1-800-263-7960 (French) to review case details.

Note: Please have as much stored DTC and snapshot information as possible prior to contacting TAC.

8. After reviewing the diagnosis, if component replacement is needed, TAC will arrange for ordering of the new component.

Note: If the PIM will be replaced, dealer tech will be required to order a new seal kit GM P/N: 19207978. The seal kit contains a seal that goes between the APM and the PIM to properly seal the APM to the PIM. This seal kit needs to be ordered by the dealer and is not a restricted part.

DRIVING CONDITION CUSTOMER QUESTIONNAIRE

Please have the customer answer as many questions below and as accurately as possible.

What was the weather like during the event? (Circle) Sunny Rain Snow Overcast

What was the temperature outside at the time of the event?

Below 0F-32F (-17C-0C) 32-60F (0C-15C) Above 60F (15C)

Or list exact Temp in F or C _____

Were there any sounds at the time of concern? YES or NO

If yes what type? _____

Were there any odors at the time of concern? YES or NO

If yes what type and from what area of the vehicle? _____

What were the driving conditions during the concern?

(Circle) Highway City Combination

Estimate driving distance from starting point until the concern occurred.

Mileage ___ Kilometers ___

Had the vehicle been driven from a cold start or had the vehicle already been driven and warm when the concern occurred? _____

Does the vehicle get driven extensively in EV (electric) mode? YES or NO

If so, do you shut the vehicle off right away or do you get it back up to higher speeds before shutting it off again? YES or NO

What type of event was this?

(Circle) or explain _____

Shutdown while driving No crank from initial Start No restart from Auto-stop

If the event is a shutdown, please answer the following questions:

Was the engine running when the event occurred? YES or NO

What type of road were you driving on when the event happened?

(Circle one) Paved Gravel Mud Other

Were you accelerating or decelerating at the time? YES or NO

How aggressive was this?

How long has it been since the vehicle was previously started?

(Circle one) 1 Hour or Less 2-5 hours 5-8 hours Over 8 hours

Approximately what temperature was the vehicle stored at prior to this drive cycle?

(Circle one) Below 0F-32F (-17C-0C) 32-60F (0C-15C) Above 60F (15C)

or list exact Temp in F or C _____

What gear were you in when the event occurred?

(Circle one) Park Reverse Neutral Drive Manual Shift

How fast were you going when the event occurred?

(Circle one) Stopped 0-10 mph (0-16kph) 10-30mph (16-48kph) 30-50mph (48-80kph) Above 50mph (80kph)

If the event was a no crank concern:

What % of driving is highway? _____

What % of driving is city? _____

Does the vehicle sit for extended periods of time?

If so, record number of days. _____

How long was the vehicle driven in EV (electric) mode? _____

Parts Information

Part Number	Description	Quantity
12647259	Drive Motor Generator Power Inverter Module (2008-2009 T6)	1
12645548	Drive Motor Generator Power Inverter Module (2010-2013 T6)	1

Warranty Information

For vehicles repaired under warranty use:

Labor Operation	Description	Labor Time
5010160	Drive Motor Generator Control Module Assembly Replacement	Use Published Labor Operation Time

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may

occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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