Subject: **Engineering Information (EI) – Loss of Power, Malfunction Indicator Lamp (MIL) Illuminated, Gauges Inoperative and/o Multiple Warning Lights/Messages Displayed on Driver Information Center (DIC), DTCs P0700, P150C, P15FD, P2544, U0073, U0101, U0129, U0140, U183A, U18D5, U18D7, U2413, U0121, U0100, U0401, U0131 Set**

Attention: **Proceed with this EI ONLY if the customer has commented about this concern AND the PIE number is listed in the Global Warranty Management / Investigate History link (GWM/IVH). If the customer has not commented about this condition or the EI does not show in GWM/IVH, disregard the PIE and proceed with diagnostics found in published service information. THIS IS NOT A RECALL. Refer to the latest version of Service Bulletin 04-00-89-053 for more details on the use of Engineering Information bulletins.**

This EI has been revised to update steps under Correction. Please discard PIE0707.

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Malibu	2019	2022	—	—	1.5L Turbo (RPO LFV)	—

Involved Region or Country	North America
Condition	Some customers may comment on having one or more of the following conditions: • Loss of power • MIL illuminated • Gauges dropping out • Multiple warning lights and/or messages Technicians may find one or more of the following DTCs stored in the Engine Control Module (ECM): • P0700 - Transmission Control Module Requested MIL Illumination • P150C - Transmission Control Module Engine Speed Request Signal Message Counter Incorrect • P15FD - Wheel Speed Sensor Message Sequence Incorrect • P2544 - Transmission Torque Request Signal Message Counter Incorrect • U0073 - Control Module Communication Bus A Off • U0101 - Lost Communication with Transmission Control Module • U0129 - Lost Communication with Brake System Control Module • U0140 - Lost Communication with Body Control Module • U0146 - Lost Communication with Serial Data Gateway Module • U183A - Lost Communication with Telematics Communication Interface Control Module on High Speed CAN Bus • U18D5 - Central Gateway Module Lost Communication with Engine Control Module • U18D7 - Central Gateway Module Lost Communication with Transmission Control Module • U2413 - Central Gateway Module High Speed CAN Bus Off • U0121 - Lost Communication with Electronic Brake Control Module • U0100 - Lost Communication With Engine Control Module • U0401 - Invalid Data Received From Engine Control Module • U0131 - Lost Communication With Power Steering Control Module

Cause	GM Engineering is attempting to determine the root cause of the above condition. Engineering has a need to gather information on vehicles PRIOR to repair that may exhibit this condition. As a result, this information will be used to "root cause" the customer's concern and develop/validate a field fix.

Correction

Important: Service agents must comply with all International, Federal, State, Provincial, and/or Local laws applicable to the activities it performs under this EI, including but not limited to handling, deploying, preparing, classifying, packaging, marking, labeling, and shipping dangerous goods. In the event of a conflict between the procedures set forth in this EI and the laws that apply to your dealership, you must follow those applicable laws.

If you encounter a vehicle with the above concern, perform the following steps and contact the engineer listed below with your findings:

1. Scan and document all DTCs.
2. Disconnect the battery.
3. Without disconnecting the EBCM, verify that the connection system is fully connected and the lever is fully locked in place.
4. Inspect the harness, the conduit to the EBCM, and the area around to insure that it is fully covered and not damaged.
5. Verify that the harness to EBCM is routed correctly and not causing stress on the connector.
6. Without disconnecting the PSCM, verify that the connection system is fully connected and that the locking tab is fully locked in place.
7. Verify that the harness, the conduit to the PSCM, and the area around to ensure that it is fully covered and not damaged.
8. Verify harness to PSCM is routed correctly and not causing stress on the connector.
9. Disconnect the X115 connector. Using the correct test probes, measure the resistance of the HSBUS circuits across 2500, 2501 going towards the K43 Power Steering Control and the K17 Electric Brake Control Module.
10. Wiggle the harness at the EBCM branch and verify that the resistance is stable.
    10.1. If the resistance fluctuates or if it is high, such as 124 ohms or higher, document this data.
11. Wiggle the harness at the PSCM branch and verify that the resistance is stable.
    11.1. If the resistance fluctuates or if it is high, such as 124 ohms or higher, document this data.
12. Disconnect the connector at the EBCM and check for terminal tension at circuits 2500/2501. Document any abnormalities.
13. Verify there is no visual damage and/or corrosion on circuits 2500/2501 at the EBCM. Document any abnormalities.
14. Disconnect the connector at the PSCM and check for terminal tension at circuits 2500/2501. Document any abnormalities.
15. Verify there is no visual damage and/or corrosion on circuits 2500/2501 at the PSCM. Document any abnormalities.

Contact Information

The Contact Information has been redacted.

Please include the following information if leaving a message:

- Technician name
- Dealer name and phone number
- Complete VIN and repair order (R.O) number

On the repair order, document the date and time the call was placed (even if the engineer was not reached).

If engineering is unable to return the call within one hour, proceed with diagnosis and repair based on information found in SI.

Warranty Information

If engineer was contacted or required information was provided, use:

Labor Operation	Description	Labor Time
5486318*	Engineering Information - Loss of Power, (MIL) Illuminated, Gauges Inoperative and/or Multiple Warning Lights/Messages Displayed On (DIC)	0.5 hr
*This is a unique Labor Operation for bulletin use only.		

Version	2

Modified	Released June 14, 2022 June 20, 2022 – Updated steps under Correction.