



Service Bulletin

Bulletin No.: 22-NA-205

Date: October, 2022

INFORMATION

Subject: Information on Module Harvesting

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	All Passenger Cars and Trucks	2000	2023	—	—	—	—
Cadillac							
Chevrolet							
GMC							
BrightDrop							

Involved Region or Country	United States
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Service Procedure

Important: Service agents must comply with all International, Federal, State, Provincial, and/or Local laws applicable to the activities it performs under this bulletin, 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 bulletin and the laws that apply to your dealership, you must follow those applicable laws.

In order to help root cause and troubleshoot some component drains or logic lockups, it is important to retrieve the module to do further analysis without resetting any components by providing power with a small battery. The photos used in this document show the harvesting of a Front Camera Module (FCM) from a 2022 GMC Sierra due to a parasitic drain.

Work through TAC, TCSC, FSE, SLC, and/or GM engineering to identify course of action. Depending on knowledge of causal components, some or all of the following steps may need to be taken.

Important: It is vital **NOT** to break the power connection, as this will reset component and the condition will be **LOST**.

1. Acquire a small 12V battery safe for shipping with minimal labeling.
 - 1.1. A sealed 12V 5AH lead acid battery is recommended.

Note: A bigger battery may be required if a module has a high drain.

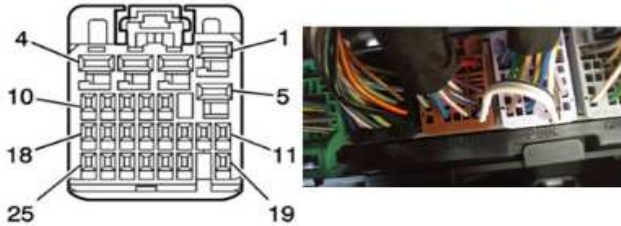
- 1.2. Obtain battery connector cable with F1 terminals. Size of the wire and fuse will be dependent on the current draw.



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2. Use Service Information Schematics connector end view to find the components pinout to identify the (-) Ground and (+) 12V power supply terminals.

Note: There could be more than one and you'll need GM Engineering to confirm if one or all pins are required to be connected.



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3. If a connector is required, use the Electronic Parts Catalog (EPC) to find the service connector for the component.
4. Identify the best way to splice in auxiliary power supply to the component.

Important: There are other possible ways to power the component by the terminal, probing or soldering at the PCB.

5. Carefully expose wiring leading to the module and verify drain is present.



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6. Identify the (+) 12V power supply on the vehicle harness and remove insulation off the wire to splice. Careful not to cause an accidental short.



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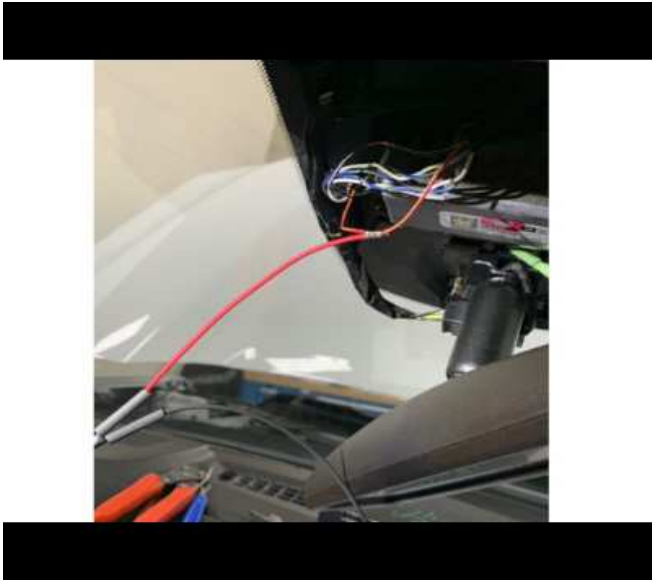
7. Verify drain is still present after carefully exposing the wire.



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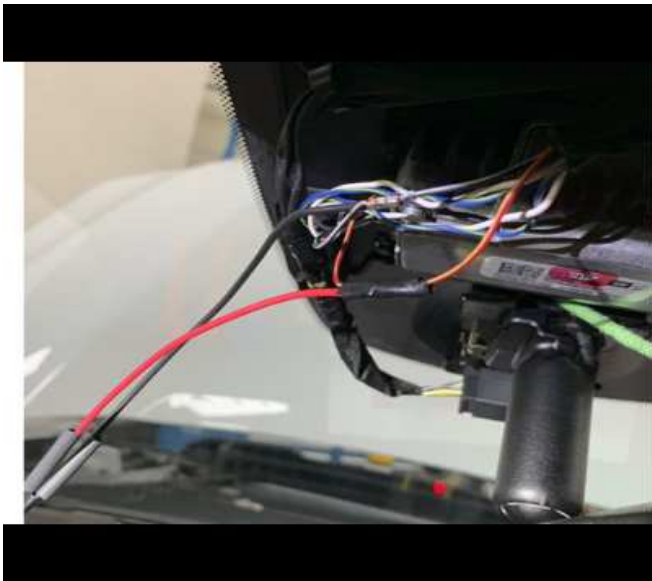
8. A secure connection is important. The wires should be twisted together to form a good mechanical bond before soldering.

Note: An open band connector crimp is another option to splice wires together.



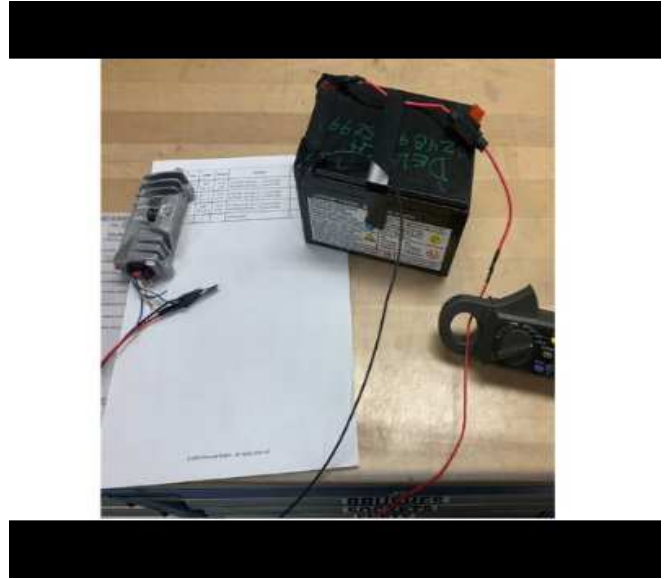
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9. Tape and/or heat shrink to protect the spliced connection.



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10. Repeat from step 7 for the (-) Ground wire.
11. Connect the (-) Ground and (+) 12V wires to the battery.
12. Cut the wires on the connector one at a time to remove the battery and component out of the vehicle.



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Important: If the reason for harvesting was related to a parasitic drain, verify that drain is still present after the procedure using a current clamp.

13. Install the new connector on the vehicle harness and verify no DTCs are set after installation.
14. Return the component in the failed state:
 - 14.1. 12V battery and component should be firmly secured to each other to avoid loss of electrical connection.
 - 14.2. Protect from short circuit and seal in a plastic bag.
 - 14.3. The bag then packed tightly with padding in a shipping box.
 - 14.4. Label box: "UN2800 – Batteries, Wet, Non-spillable."

Version	1
Modified	Released October 19, 2022