



Service Bulletin

File in Section: -

Bulletin No.: 16-NA-203

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TECHNICAL

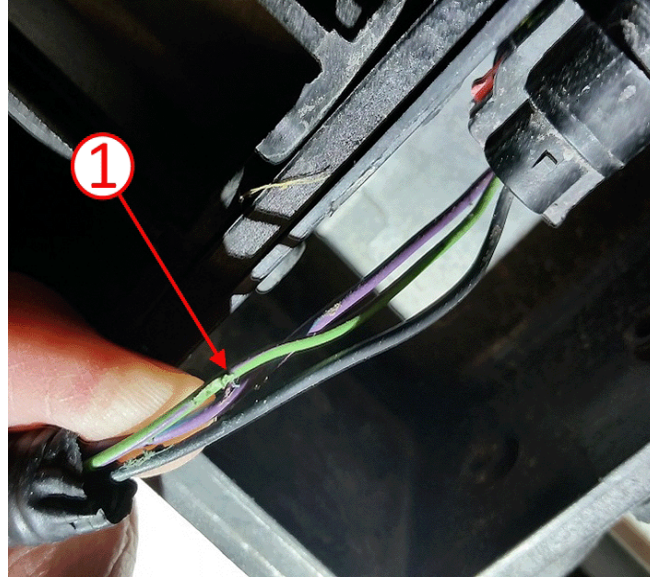
Subject: Active Shutters Inoperative During Cold Ambient Temperatures, Malfunction Indicator Lamp (MIL) Illuminated - DTC P059F Set Current or in History

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
				from	to		
Chevrolet	Volt	2016	2017				

Involved Region or Country	North America, Korea, Norway
Condition	Some customers may comment on the MIL being illuminated when driving in extremely cold weather conditions. The Technician may find DTC P059F set current or in history.
Cause	This condition may find DTC P059F (Active Grille Air Shutter 1 Performance) set in the Engine Control Module as current or in history. <ul style="list-style-type: none">Active shutter wiring harness chafing near the shutter actuator wiring harness connector. Note: The DTC listed may set during cold ambient temperatures when snow, ice and/or freezing rain builds up in the active shutters. <ul style="list-style-type: none">Snow and/or ice buildup in the front lower grille area of the vehicle, which could prevent the active aero shutters from opening or closing.

Note: If the active shutters have been found to be the cause of the failure, the wiring harness that is supplied with the shutters must be replaced.

Do Not replace the active shutters for snow and/or ice build up.



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Correction

Inspect the active shutter wiring harness for any signs of chafing (1).

- If any chafing was found on the wiring harness, the harness must be repaired as needed.
- If the wiring harness has been found in working order and does not need repairing, using care, perform inspection on the shutters for any signs of snow, ice and/or damage.

If the above inspection did not find any damage or chafing and there are signs of previous snow or ice in the active shutter system;

- For 2017 model years, reprogram the ECM with the latest software available.
- For 2016 model years, the ECM update is not available at the time. Once the software becomes available, this bulletin will be updated.

Note: The updated calibration has changed the shutter activation test from 39 °F (4°C) to 46°F (8°C). It is still possible that snow and/or ice can freeze depending on colder ambient temperatures in the active shutter system.

- ⇒ The ECM calibration performs a test on the shutters in winter mode when the temperature reads 46°F (8°C).
- ⇒ The ECM calibration allows for more time for snow and/or ice to soften and/or melt before testing shutter activation.
- ⇒ The shutters will run a break free routine to free themselves, only if the first DTC sets.

Explain to the customer that the shutters may freeze during certain weather conditions and the MIL will clear when the shutters are in proper working order. It will not impact the designed performance or reliability of the vehicle. Please share this information with the customer, including a copy of this bulletin.

Service Procedure

Important: Stable battery voltage is critical during programming. Any fluctuation, spiking, over voltage or loss of voltage will interrupt programming. Install the *EL-49642* SPS Programming Support Tool (GM Dealer Equipment Item #PSC-550) to maintain system voltage. If not available, connect a fully charged 12 V jumper or booster pack disconnected from the AC voltage supply. **DO NOT** connect a battery charger.

Refer to K20 Engine Control Module: Programming and Setup in SI.

Parts Information

No parts are required for this repair.

Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
2810075	Engine Control Module Reprogramming	Use the Published Labor Operations Time

Version	3
Modified	March 21, 2017 - Updated the Warranty Information. February 12, 2018 - Add ECM information

