

## INFORMATION

## Subject: Diagnostic Aid for Misfire Diagnostics Displaying Incorrect Cylinders for Certain OBD Monitors Reported in Mode 6

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to	Engine.	Transmission.
Chevrolet	Corvette	2023	2023	—	_	5.5L (LT6)	—

Involved Region or Country	North America, Chile, Europe, Russia, Middle East, Israel, Palestine, Japan, GM Korea Company, Thailand, Australia/New Zealand
	<b>Note:</b> This issue only affects vehicles with the following ECM software part numbers: 12734308 and 12734747.
Condition	Technicians may find when using a generic scan tool to look at "Fuel System Monitor" (AFIM – Air fuel Imbalance Monitor) or the "Misfire Cylinder Data", the scan tool displays the incorrect cylinder that is impacted.
Cause	<ul> <li>SAE J1979 Mode 06 On-board System test results for cylinder specific OBD Monitors are assigned to the wrong cylinders. The following monitors are impacted:</li> <li>Fuel System Monitor (AFIM - Air fuel Imbalance)</li> <li>Misfire Monitor</li> <li>This only impacts vehicles with the following ECM SW part numbers:</li> <li>12734308</li> <li>12734747</li> </ul>
Information	Technicians are advised to rely on DTCs for correct cylinder identification when fuel system monitoring or misfire faults are present. If the vehicle contains an ECM SW part number that is listed above, the following Cylinder Decoder table can be used to correct the cylinder assignments which are reported in mode 06.

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.

## **Additional Information**

Cylinder Decoder:

Corrected Cylinder Assignment	Cylinder Assignment reported in Mode 06	
1	1	
2	2	
3	4	
4	5	
5	7	
6	8	
7	6	
8	3	
Cylinders 1 and 2 are reported correctly in mode 06 and are not impacted by this issue.		

Version	1
Modified	Released November 06, 2023

GM bulletins are intended for use by professional technicians, NOT a "<u>do-it-yourselfer</u>". 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, <u>DO NOT</u> 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.



WE SUPPORT VOLUNTARY TECHNICIAN CERTIFICATION