

1997 - 2003 Corvette: Service Bulletin: Misfire DTCs and Catalytic Converter Damage Due to Installation of Alarm Systems

Subject: Misfire DTCs and Catalytic Converter Damage Due to Installation of Alarm Systems

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Models: 2003 and Prior GM Passenger Cars and Light Duty Trucks, 2003 HUMMER H2, 2003 and Prior Isuzu Light Duty Trucks

General Motors Engineering, in an effort to determine the root cause of catalytic converter damage, has determined that aftermarket alarm systems incorrectly installed in vehicles have the potential to cause misfire codes and damage to the converter. These alarm systems use a circuit interrupt which utilizes the ignition circuit on the vehicles.

These alarm systems utilize mechanical relays and normal vehicle movement can trigger these relays to engage and disengage the ignition circuit while the vehicle is in motion. These disruptions of the ignition circuit, which occur in milliseconds, may cause more fuel to be commanded. Over time, this dumping of fuel on and off again can cause misfire codes and ultimately damage the converter assembly.

Engineering could not identify any alarms that utilize solid state circuitry that would eliminate this concern. Because of this, it has been determined that all alarm systems must be routed through the starter circuit in order to avoid this condition.

Dealers must be aware of this issue and take note of the wiring on vehicles with alarm systems that come in for repair, particularly for catalytic converter damage that seem to have no known root cause.

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