



# Service Bulletin

## PRELIMINARY INFORMATION

**Subject:** Diagnostic Tips for Intermittent Engine No Crank, Intermittent Exhaust Camshaft Position (CMP) Sensor Signal

**Models:** 2013-2015 Buick Encore  
2015-2016 Cadillac ELR  
2009-2011 Chevrolet Aveo  
2011-2015 Chevrolet Volt  
2011-2016 Chevrolet Cruze  
2012-2016 Chevrolet Sonic  
2013-2015 Chevrolet Trax  
Equipped with 4 Cylinder Engine - RPO LUJ, LUU, LUV, LUW, LWE or LXV

**Attention:** The intake camshaft position (CMP) sensor WILL NOT cause this intermittent engine no crank condition. If the intake CMP sensor has a fault, it will set a DTC. This PI also applies to any of the above models that may be Export vehicles.

*This PI has been revised to add the 2015-2016 Model Years, include the ELR and Volt Models and update the Condition/Concern. Please discard PI0867A.*

### Condition/Concern

Some customers may comment on an intermittent engine no crank.

They may also comment that if they cycle the ignition OFF and then back ON the engine may crank. For hybrid vehicles, you may experience awaiting to initialize message with no propulsion and no codes.

This condition may be caused by the engine control module (ECM) receiving an intermittent exhaust camshaft position (CMP) sensor signal as soon as the ignition is turned ON. This results in the ECM not sending a crank request signal because it has determined that the engine is already running.

### Recommendation/Instructions

**Notice:** DO NOT replace the exhaust CMP sensor based solely on the description of this condition.

Perform the following actions:

1. Connect a scan tool to the vehicle.
2. Turn ON the ignition with the engine OFF.
3. Perform the Diagnostic System Check - Vehicle.  
⇒ If any DTC is set, refer to Diagnostic Trouble Code (DTC) List – Vehicle in SI.
4. Select Engine Data.

**Notice:** The scan tool parameter name will vary depending on the vehicle.

5. With the ignition **ON** and the engine **OFF**, observe one of the following Active Counter parameters for incrementing:  
Exh. CMP Active Counter

**OR**

Exhaust Camshaft Position Active Counter

⇒ If the Active Counter parameter is incrementing, replace the exhaust CMP sensor. Refer to SI.

---

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