



# Service Bulletin

## PRELIMINARY INFORMATION

**Subject:** Engine Rattle/Knock Noise, Loose or Broken Front Crankshaft Pulley Bolt and/or Flywheel Bolts

**Models:** 2013-2014 Buick Encore  
2011-2014 Chevrolet Cruze  
2012-2014 Chevrolet Sonic  
2013-2014 Chevrolet Trax  
Equipped with Engine RPOs LUW, LUJ, LUV, LWE  
and Manual Transmission RPOs MF3, MZ0, M26, MZ4, M4P, MR5

*This PI has been revised to update the Recommendation/Instructions. Please discard PI0715A.*

### Condition/Concern

Some customers may comment on a loud engine rattle or knock type noise, or the accessory drive belt and the lower crankshaft pulley has come off. An inspection may reveal a loose or broken bolt from the front crankshaft pulley and/or flywheel bolts, causing them to make a noise or come off the engine.

Broken or loose bolts at the crankshaft pulley and/or flywheel are the result of excessive engine overspeed.

The cause of the higher than normal RPMs are achieved by shifting the vehicle from a higher gear to a lower gear at a higher rate of speed. This allows the wheels to drive the engine at a higher RPM than it is capable of handling.

### Recommendation/Instructions

To identify if the engine RPMs were higher than the design load limits, use GDS2 and select Event Information.

Check to see if the data shows that the engine has been run at too high of an RPM level. Any speed higher than 7500 RPMs is too excessive and could result in engine damage.

If the data indicates an overspeed condition has occurred, it should be inspected by your service manager and GM Field Representative to determine warranty responsibility.

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