



Service Bulletin

PRELIMINARY INFORMATION

Subject: DTC P0300 With An Upper End Noise On The Cylinder That Is Misfiring

Models: 2014 Chevrolet Impala
2014 Chevrolet Malibu
With engine RPO LKW vin code L

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition/Concern

Some small number of vehicles may set DTC P0300. The misfiring cylinder will also have a lifter / valvetrain type noise. These engines were installed into August, September and early October vehicles.

This affects engines built 8/1/2013 thru 9/30/2013. The misfire may not be felt when driving the vehicle. The freeze frame data may indicate a lower RPM range (low lift lobes) or a high RPM range (high lift lobes) when the misfires occur along with a mechanical noise. The misfire should be seen on the misfire graph and should indicate a specific cylinder with the misfire.

Recommendation/Instructions

In rare instances a technician may find P0011 and or P0014 diagnostic codes set in the ECM as history or current. If SI diagnostics do not lead to a resolution, remove the camshaft solenoids and inspect the screens for debris. If debris is present, clean off the screens with brake cleaner. Reinstall the solenoids and evaluate if the DTC still sets.

If code resets or the screen did not have debris on them, remove the camshaft actuator associated with the DTC(s). With light air pressure, blow out the oil passages through the camshaft actuator solenoid port in the head while holding a rag over the camshaft actuator oil passages to keep the oil from spraying out all over the vehicle/engine. Lubricate the camshaft solenoid seal(s) with clean engine oil and reinstall. Install a new camshaft actuator associated with the code(s). Evaluate the vehicle and monitor the camshaft actuator activity.

Engine Build Identification



Example: Engine Unit Identification number found on the timing cover: N1131974B7U 0103

13 = 2013

197 = 197th day of 2013 which is July 17th

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

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