



Service Bulletin

File In Section: 06 - Engine/Propulsion System

Bulletin No.: 00-06-04-014

Date: April, 2000



TECHNICAL

Subject: No, Hard, or Slow Start, Backfire or "Kickback" During Crank/Start, "Grinding" or Unusual Noises During Crank, DTC P0338 (Replace Crankshaft Position Sensor)

Models: 1999-2000 Cadillac Escalade
1995-2000 Chevrolet and GMC S/T Models
1996-2000 Chevrolet and GMC C/K, M/L, G, P Models
1996-2000 Oldsmobile Bravada
with 4.3 L, 5.0 L, 5.7 L or 7.4 L Engine
(VINs W, X, M, R, J — RPOs L35, LF6, L30, L31, L29)

Condition

Some customers may comment on one or more of the following conditions:

- Backfire during crank/start
- "Kickback" during crank/start
- "No" start
- "Slow" or "hard" start/crank
- "Grinding" or unusual noises during crank/start
- Cracked or broken engine block at the starter boss
- Broken starter drive housing
- Broken starter ring gear on flywheel
- Any combination of the above

Cause

A condition may exist that allows the crankshaft position sensor to command up to 50 extra degrees of spark advance during engine cranking only. This in turn exposes the engine to higher than normal cylinder pressures which may result in an inoperative condition to the starter drive housing, the engine flywheel starter ring gear, or the engine block at the outside edge of the starter boss.

Correction

Inspect for a stored powertrain DTC code P0338. This DTC will NOT illuminate the "Service Engine Soon" light. If this code is stored, the Crankshaft Position Sensor, P/N 10456607, MUST be replaced and the remaining components inspected for damage (engine block at the starter boss, the starter drive housing, and the engine flywheel starter ring gear).

Notice: When DTC code P0338 is set, failure to replace the Crankshaft Position Sensor could result in repeated inoperative conditions of the starter or flywheel.

Important: Some flywheel wear is normal; broken or missing teeth and/or cracks, are not normal.

Parts Information

Parts are currently available from GMSPO.

Warranty Information

For vehicles repaired under warranty, use:

Labor Code	Description	Labor Time
J4355	Sensor, Crankshaft Position - Replace	Use published labor operation time

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.



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