



Technical Bulletin



Manufacturer: General Motors (05-06-01-030D)

Service Plus Group: 07 -14 -1107

Subject: 1.6L L91 Intermittent Misfire During Deceleration or Steady State Highway Driving After Cold Start with DTCs P0300, P0700, P1781 and/or U0401 Set (Replace Valves and Valve Stem Seals)

Models: 2004-2007 Chevrolet Aveo
2005-2007 Pontiac Wave (Canada Only)
with Eco-Tec II 1.6L Four Cylinder Engine (VIN - RPO L91)
Built Prior to VIN Breakpoint 7B797231

Condition

Some customers may comment on an engine misfire on rare occasions. Typically, misfires related to this valve sealing concern will be very intermittent. The intermittent misfires may or may not be felt by the driver and they will normally occur during engine warm up, deceleration, highway driving, wide open throttle acceleration, and/or uphill driving.

Additionally, DTCs P0300, P0700, and/or P1781 (2004 models)/U0401 (2005 models) may be set. If a brief engine misfire occurs, it is possible that a P1781 or U0401 DTC may set without the presence of a DTC P0300.

Cause

The engine misfire may be experienced due to a valve sealing concern.

Correction

If this concern is experienced, perform the appropriate diagnostics. If the diagnostics do not isolate a cause for the concern and the last 8 digits of the VIN are:

Important: On vehicles built prior to VIN breakpoint 5B406012, check GMVIS to see if the intake valves have already been replaced with the current P/N. If the intake valves have already been replaced, replace only the exhaust valves and valve seals.

- PRIOR to 5B406012, replace all 8 exhaust valves, all 8 intake valves, and all 16 valve seals. Refer to Cylinder Head Disassemble and Cylinder Head Assemble procedures in Factory Service Manual.
- AFTER and INCLUDING 5B406012, replace all 8 exhaust valves and all 16 valve seals. Refer to Cylinder Head Disassemble and Cylinder Head Assemble procedures in Factory Service Manual.

Part Number	Description
96440081	Valve, Intake
96830500	Valve, Exhaust
96840122	Seal, Valve Stem Oil