



Service Bulletin

File In Section: 06 - Engine/Propulsion System

Bulletin No.: 08-06-04-001

Date: January, 2008

TECHNICAL

Subject: Check Engine Light On, DTCs P0171, P0300, P1174 Set (Perform Injector Test, Replace Injectors and Reprogram ECM, if Necessary)

Models: 2006-2007 Chevrolet Cobalt, HHR
2007 Pontiac G5, G6
2006-2007 Saturn ION
with 2.4L Engine (VIN B, P — RPO LE5)

Condition

Some customers may comment on the check engine light being illuminated.

A scan tool may reveal DTC P0171, P0300 or P1174 set as current or in history.

Cause

This condition may be caused by the plugging of one or more of the injector director plate orifices which results in a lean condition.

Correction

Important: This condition cannot be corrected by cleaning the injector(s).

Perform an injector balance test using the Active Fuel Injector Tester (AFIT), CH-47976. Refer to the Fuel Injector Diagnosis (w/CH47976) procedure in SI. If any injector is identified as having a lean condition, replace all four injectors with the revised injectors. After installing the new injectors, reprogram the ECM with updated calibration files using the TIS2WEB Service Programming System (SPS) application. There are two calibration part numbers that are valid for "Engine Operation". Select the part number with the description that reads for vehicles with second design injector. The injector has a dark blue overmold color for this repair.

Important: The fuel injectors must be replaced and the new calibration files must be installed to ensure a complete repair. Failure to perform both repairs will result in the customer returning with the same condition.

If a vehicle returns with the same condition after having this repair performed, the technician should first verify that the complete repair was performed before continuing with SI diagnostics.

Parts Information

Part Number	Description	Qty
12602480	Injector, Fuel	4

Warranty Information

Important: For claims to be paid, injector balance test results must be recorded on the repair order.

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
J7808*	Perform Injector Balance Test and Replace Injectors (Includes Programming)	1.0 hr

*This is a unique labor operation for bulletin use only. It will not be published in the Labor Time Guide.

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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