



Service Bulletin

File in Section: -

Bulletin No.: PIP5206

Date: June, 2014

PRELIMINARY INFORMATION

Subject: Engine Pop Knock Noise At Idle

Models: 2013 - 2014 Chevrolet Captiva
equipped with 2.4L Engine RPO LEA

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

Condition/Concern

Engine pop / knock noise at idle that diminishes as the engine RPM is increased. Misfires on some cylinders may also be observed

Recommendation/Instructions

1. Remove accessory belt to verify noise is not accessory belt related
2. Check G109 for sufficient clamp load, should not be able to twist the cable / wire
3. When popping / knocking noise is occurring see if the timing is being retarded and if there is knock sensor activity. Disconnect the knock sensor and see if the noise changes.
4. If timing retards and noise changes with knock sensor disconnected, reconnect knock sensor and disconnect MAP sensor and see if the knocking noise is affected.
5. If noise is not affected remove both camshaft actuators and inspect if the camshaft dowel pin is damaged, if so replace actuator and camshaft
6. If noise is affected or no problem found with the camshaft dowel pin, remove the piston / rod assemblies and check for excessive clearance in the piston pin bushing, replace as necessary.

Warranty Information

For vehicles repaired under warranty, use:

The correction for this concern may be one of several repairs described above. For vehicles repaired under warranty, please use the appropriate warranty labor operation based on the original cause in addition to well documented straight time.

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.