

MODEL: Karma Revero**DATE:** May 2017**TITLE:** Cam Phaser Solenoid Cleaning**First Release****PRIORITY:** On Complaint**APPLICABILITY:** Revero with GM 2.0Turbo Equipped Generator Engine**MARKET REGION:** North America**PURPOSE:**To provide corrective action for MIL illumination pertaining to codes P0017 and P0014

Vehicles exhibiting the listed DTC's (P0017 and/or P0014) the following action may be helpful. The condition or concern may be accompanied by a sharp rattle noise from the generator engine on startup.

Once the codes are verified it is recommended to change the oil and filter.

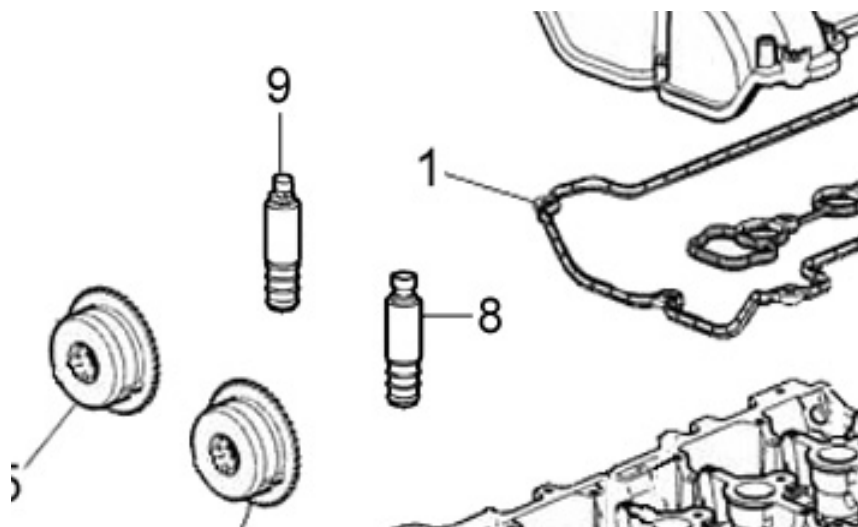
Remove the camshaft position actuator solenoids (call-outs 8 and 9 in fig.1 below), clean and inspect for debris, torn or loose screens. If debris is found in the solenoid valve screens, clean thoroughly and inspect again.

Clear the codes. Reinstall the cleaned actuator solenoids and start the vehicle in Sport mode. Test drive the vehicle and confirm the codes do not return.

If the DTC's set again after this process of cleaning and inspection, replace the affected solenoid clear DTC's and repeat the test.

It may be necessary to replace the engine oil and engine oil filter a second time or more.

Create a TSS case for this bulletin.

**fig.1**

Karma Automotive Bulletins and service documents are intended for use by experienced and trained Technicians. If you lack the skills, tools, equipment and a suitable workshop for any procedure described in this document, we suggest you leave such repairs to a Karma retailer and service provider. See your service provider for advice on whether your vehicle may benefit from the information contained within this document. The information contained in the Karma Bulletin is accurate at the date of publication. However, Karma Automotive regularly updates technical information. Please check with your Karma Automotive Retailer and Karma Automotive service provider that the bulletin you intend to use contains the latest available information.

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TITLE: Cam Phaser Solenoid Cleaning

PARTS REQUIRED:

PART NUMBER	DESCRIPTION
N/A	Parts Service

SHOP SUPPLIES:

DESCRIPTION
N/A

SPECIAL TOOLS:

DESCRIPTION
N/A

CAUSAL PART:

PART NUMBER	DESCRIPTION
C161110100600 or C161110104200	Actuator - Camshaft Position (Intake or Exhaust)

LABOR CODES:

CODE	DESCRIPTION	TIME	DEFECT CODE
12-30-25-90	Cam Phaser Solenoid Cleaning Bulletin	1.5	12-25-01-98

SUBLET:

CODE	DESCRIPTION	AMOUNT
N/A		

WARRANTY DISPOSITION: This repair is covered under the New Vehicle Limited Warranty, in effect for five (5) years from the in-service date with no mileage limitation.

NOTE: When reporting this warranty claim please document any debris found, in the cam position solenoid or the screen.

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