

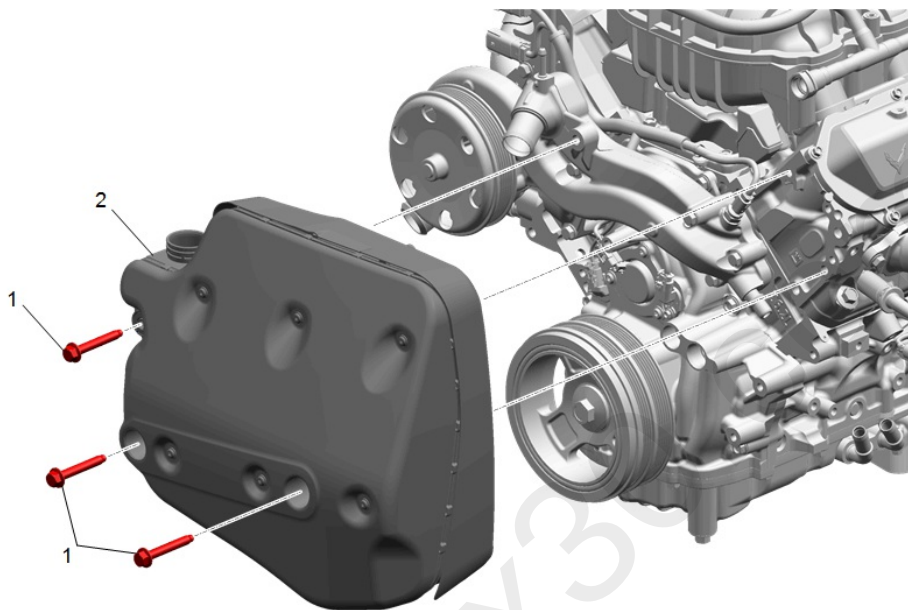
2022 CHEVROLET CORVETTE SERVICE MANUAL

- [SEARCH](#)

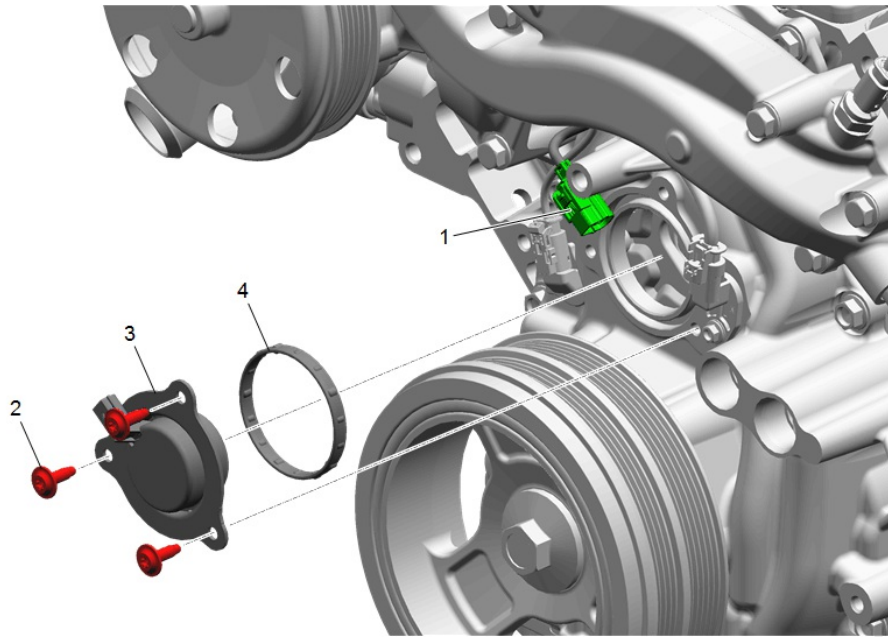
1. [Engine/Propulsion](#)
2. [Engine Mechanical - 6.2L \(LT2\)](#)
3. [Repair Instructions](#)
- 4.

Camshaft Position Actuator Magnet Replacement

Removal Procedure



1. [Click here for full size](#)
2. [Engine Oil Tank \(2>\) >> Remove - Engine Oil Tank Replacement](#)



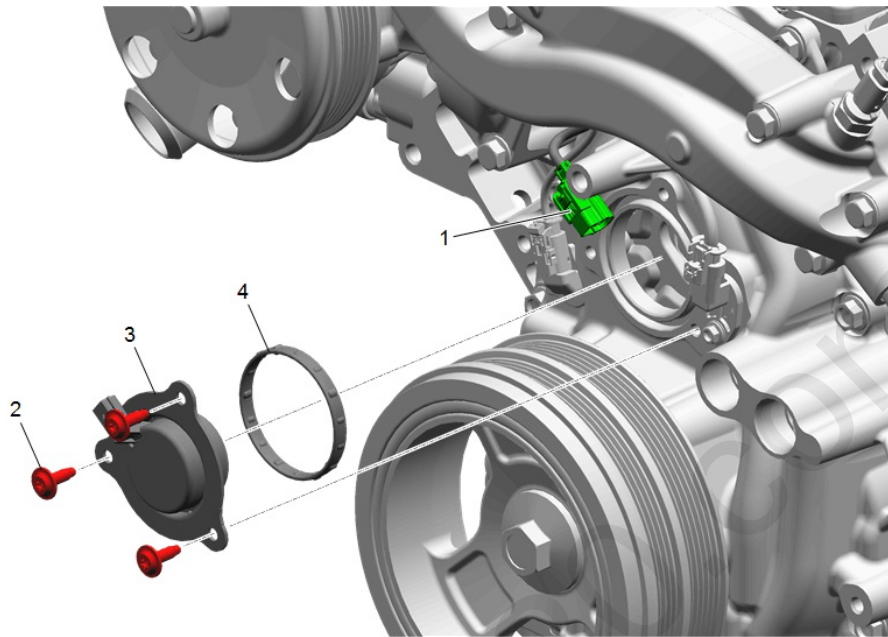
3. [Click here for full size](#)
4. Electrical Connector (1>) >> Remove
5. Camshaft Position Actuator Magnet Bolt (2>) >> Remove [3>x]
6. Camshaft Position Actuator Magnet (3>) >> Remove
7. Camshaft Position Actuator Magnet Gasket (4>) >> Remove and DISCARD

Cleaning and Inspection Procedure

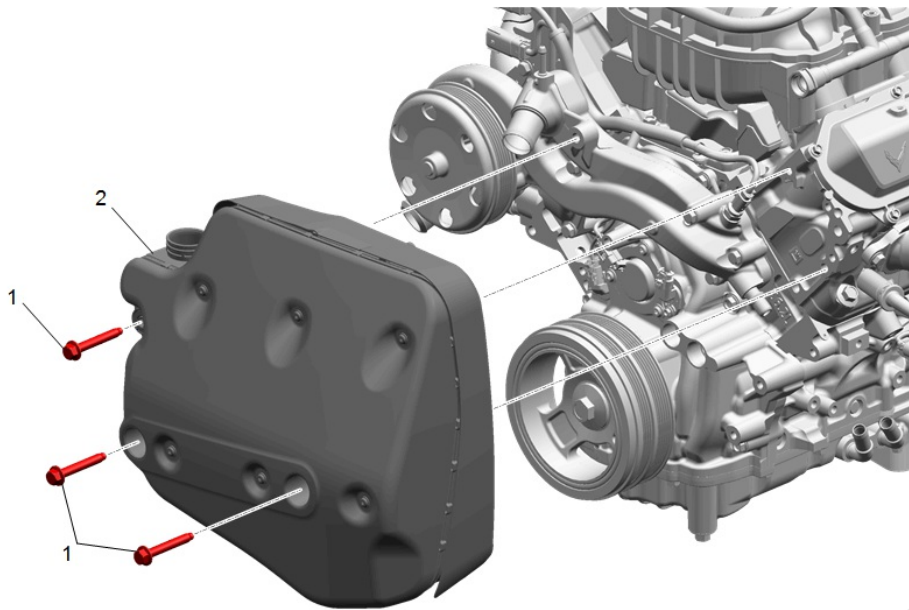
1. [Click here for full size](#)
2. Note:
 - The following cleaning and inspection and/or overhaul steps are ONLY to be performed as determined necessary based on the condition of the part being removed with the intention of reinstallation. The labor time to perform any of these steps is not included in the base labor time and if required would need to be documented and submitted as Other Labor Hours for warranty claim reimbursement. A description of the repairs performed must be documented in the technician correction comments.
 - If checking the operating range of the camshaft position actuator magnet pintle, DO NOT energize the magnet with a 12V power supply. Use steps 2 thru 5 below to check pintle operating range.
3. Inspect the camshaft position actuator magnet for the following conditions:
4.
 - A damaged electrical connector
 - An accumulation of dirt or debris in the recessed area around the pintle
 - A build-up of burnt engine oil on the shaft of the pintle which may cause the pintle to stick and not move freely within the proper range of travel
5. Holding the camshaft position actuator magnet with the pintle facing upward, measure the pintle retracted position (a). Record the dimension.
6. [Click here for full size](#)

7. Holding the camshaft position actuator magnet with the pintle facing downward, measure the pintle extended position (b). Record the dimension.
8. Subtract the retracted dimension (a) from the extended dimension (b) to determine pintle travel. A properly moving pintle will travel 3.0 mm (0.12 in).
9. If the pintle of the camshaft position actuator magnet is binding or does not move within the proper range of travel, replace the CMP magnet as an assembly.

Installation Procedure



1. [Click here for full size](#)
2. Camshaft Position Actuator Magnet Gasket (4) >>> Install NEW
3. Camshaft Position Actuator Magnet (3) >>> Install
4. Caution:
Refer to Fastener Caution.
5. Camshaft Position Actuator Magnet Bolt (2) >>> Install and tighten [3x]10 N-m (89 lb in)
6. Electrical Connector (1) >>> Install



7.
[Click here for full size](#)

8. Engine Oil Tank (2>) >> Install - Engine Oil Tank Replacement

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