

2022 CHEVROLET CORVETTE SERVICE MANUAL

- **SEARCH**

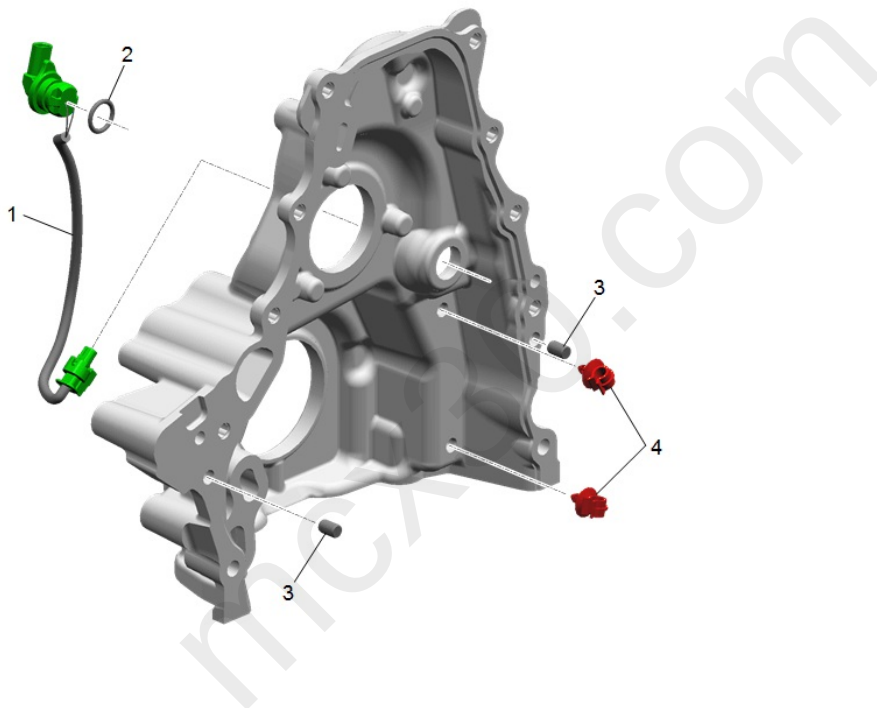
1. **Engine/Propulsion**
2. **Engine Mechanical - 6.2L (LT2)**
3. **Repair Instructions**
- 4.

Engine Front Cover Overhaul

Removal Procedure

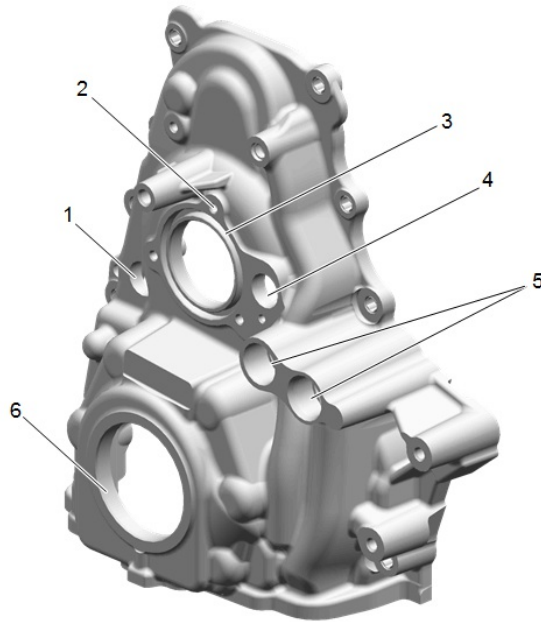
Engine Front Cover >> Remove - Engine Front Cover Replacement

Disassemble Procedure



1.
Click here for full size
2. Oil Pump Flow Control Solenoid Valve Wire (1) >> Remove
3. Camshaft Position Sensor Oil Seal Ring (2) >> Remove and DISCARD
4. Oil Pump Flow Control Solenoid Valve Wire Clip (4) >> Remove [2x]
5. Engine Front Cover Locating Pin (3) >> Remove [2x]

Cleaning Procedure



1. [Click here for full size](#)
2. Note:

Ensure proper use of room temperature vulcanizing (RTV) sealant. Use of Room Temperature Vulcanizing (RTV) and Anaerobic Sealant

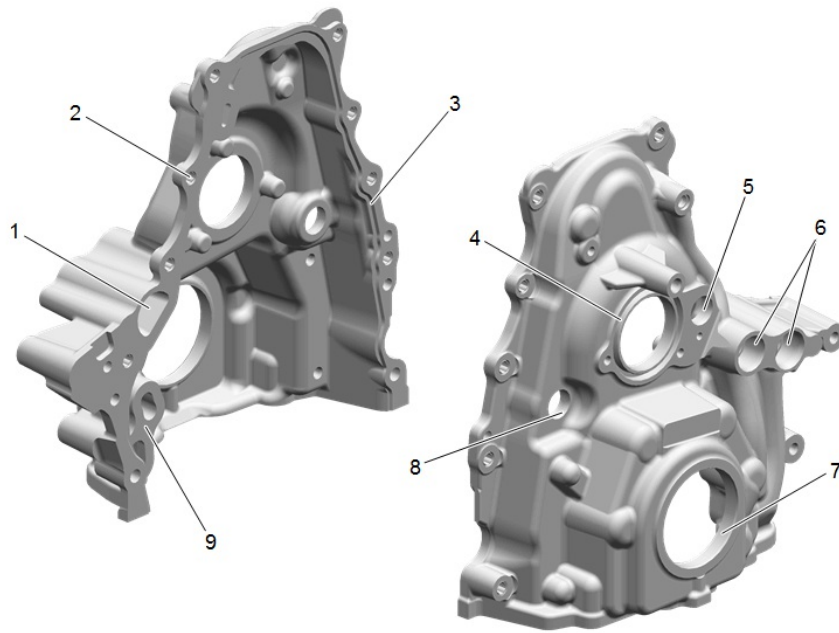
3. Clean the cover in solvent. Remove the sealant from the cover oil pan surface. Replacing Engine Gaskets

4. Warning:

Refer to Safety Glasses and Compressed Air Warning.

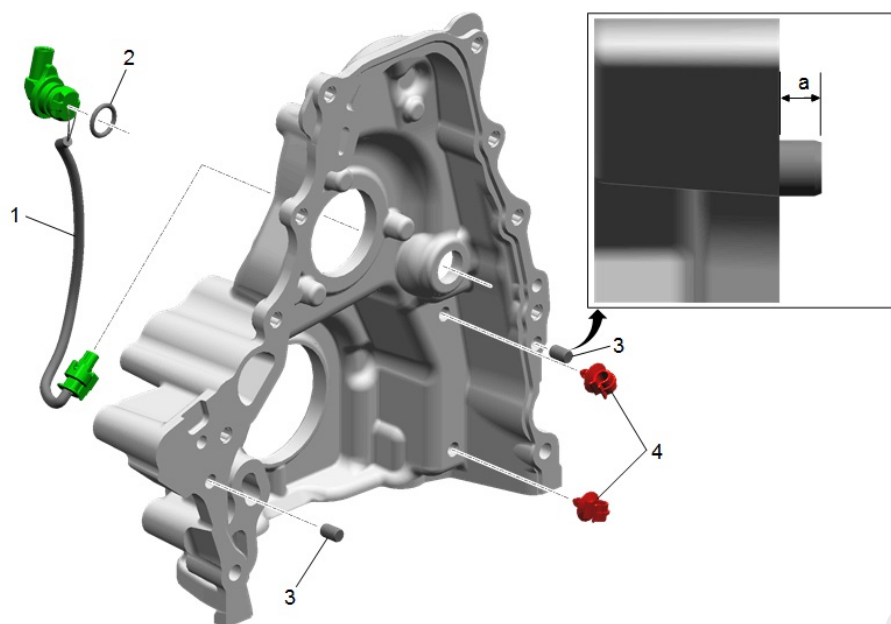
5. Dry the cover with compressed air.
6. Clean the oil flow control valve connector pass-thru hole and sealing surface (1).
7. Clean the threaded bolt holes (2).
8. Clean the gasket sealing surfaces (3).
9. Clean the camshaft position sensor pass-thru hole and sealing surface (4).
10. Clean the oil tank sealing surfaces (5).
11. Clean the crankshaft sealing surfaces (6).

Inspection Procedure



1. [Click here for full size](#)
2. Inspect the engine front cover for the following conditions:
3.
 - Damage to the oil tank output sealing surface (1)
 - Damage to the engine front cover bolt holes (2)
 - Damage to the engine front sealing surface (3)
 - Damage to the camshaft position actuator magnet sealing surface (4)
 - Damage to the camshaft position sensor sealing surfaces, bores and mounting hole threads (5)
 - Damage to the oil tank input sealing surface (6)
 - Damage to the crankshaft front oil seal bore (7)
 - Inspect the oil flow control valve connector pass-thru hole and sealing surface for excessive scratches or gouging (8)
 - Damage to the oil pump sealing surfaces and bores (9)
4. Repair or replace the engine front cover as necessary.

Assemble Procedure



1. [Click here for full size](#)
2. Press fit the engine front cover locating pins (3) into the engine front cover, ensure that 6.0 mm (0.236 in) (a) of the engine front cover locating pin protrudes from the engine front cover as shown.
3. Oil Pump Flow Control Solenoid Valve Wire Clip (4) >> Install [2x]
4. Camshaft Position Sensor Oil Seal Ring (2) >> Install NEW
5. Oil Pump Flow Control Solenoid Valve Wire (1) >> Install

Installation Procedure

Engine Front Cover >> Install - Engine Front Cover Replacement