

2022 CHEVROLET CORVETTE SERVICE MANUAL

- **SEARCH**

1. **Engine/Propulsion**

2. **Engine Mechanical - 6.2L (LT2)**

3. **Repair Instructions**

- 4.

Cylinder Head Overhaul

Special Tools

- *EN-8062* Valve Spring Compressor
- *EN-8089* Carbon Removal Brush
- *EN-9666* Valve Spring Tester
- *EN-47909* Injector Bore Brush Kit

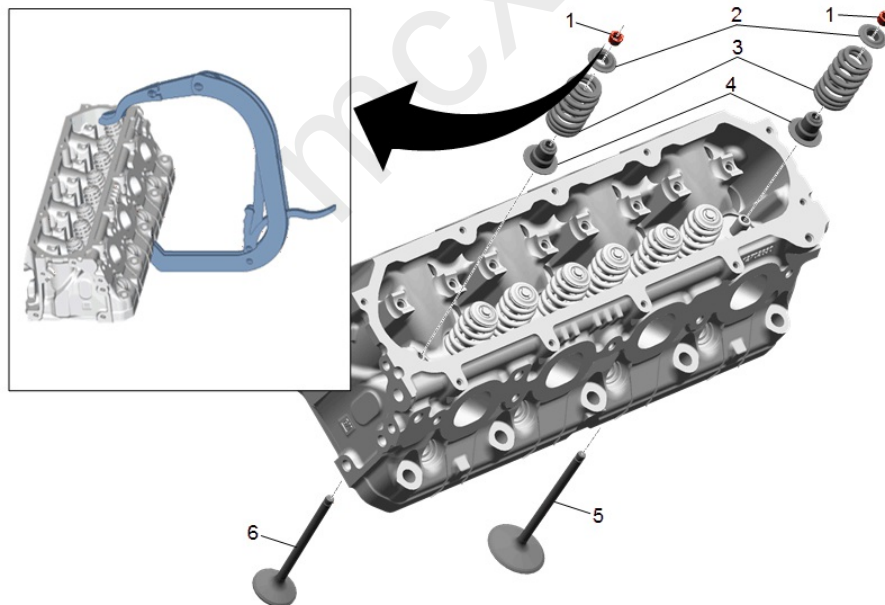
Equivalent regional tools: Special Tools

Removal Procedure

Remove the appropriate cylinder head.

- Cylinder Head Replacement - Left Side
- Cylinder Head Replacement - Right Side

Disassemble Procedure



1. [Click here for full size](#)
2. *EN-8062* Valve Spring Compressor >> Install
3. Valve Stem Key (1) >> Remove [16x]

4. Valve Spring Cap (2) >> Remove [16x]

5. Warning:

Compressed valve springs have high tension against the valve spring compressor. Valve springs that are not properly compressed by or released from the valve spring compressor can be ejected from the valve spring compressor with intense force. Use care when compressing or releasing the valve spring with the valve spring compressor and when removing or installing the valve stem keys. Failing to use care may cause personal injury.

6. Valve Spring (3) >> Remove [16x]

7. Valve Stem Oil Seal (4) >> Remove and DISCARD [16x]

8. Intake Valve (5) >> Remove [8x]

9. Exhaust Valve (6) >> Remove [8x]

Cleaning Procedure

Warning:

Refer to Safety Glasses Warning.

Note:

- When cleaning a cylinder head in a thermal type oven, do Not exceed 204°C (400°F).
- Be careful not to scuff the chamber.

Clean the following components:

- Combustion Chamber
- Use the *EN-8089* Carbon Removal Brush to remove the carbon from the combustion chambers.
- Fuel Injector Bores
- Use the *EN-47909* Injector Bore Brush Kit to remove the carbon from the fuel injector bores.
- Gasket surfaces
- Replacing Engine Gaskets
- Valve stems and heads on a buffing wheel
- Bolt hole threads
- Remove all dirt, debris, or threadlocking material from the bolt holes.

Inspection Procedure

1. Inspect the cylinder head for the following conditions:

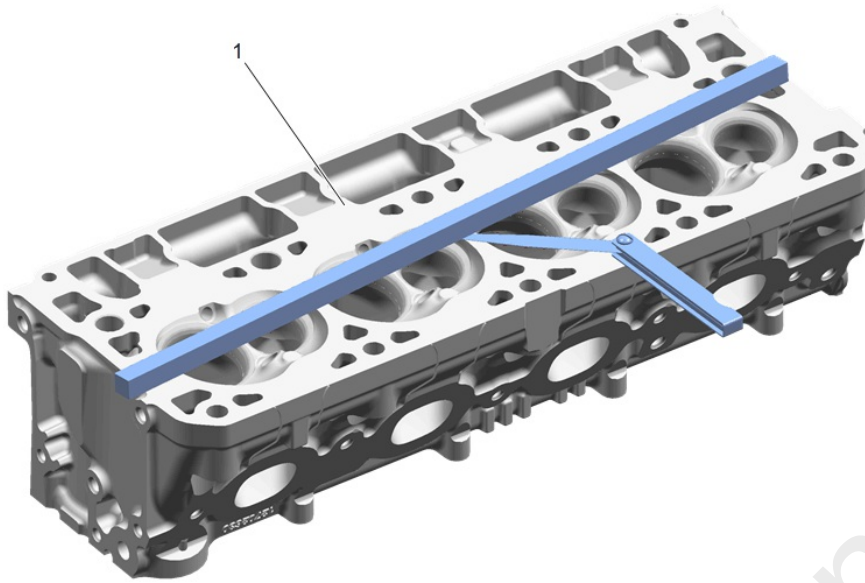
2.

1. Cracks in the exhaust ports and combustion chambers
2. External cracks in the water chambers
3. Inspecting the spring seats and rocker arm pivots for damage or gouging
4. Gasket surfaces for excessive scratches or gouging
5. Replacing Engine Gaskets
6. Bolt hole threads for debris or damaged threads.

7.

- Thread Repair

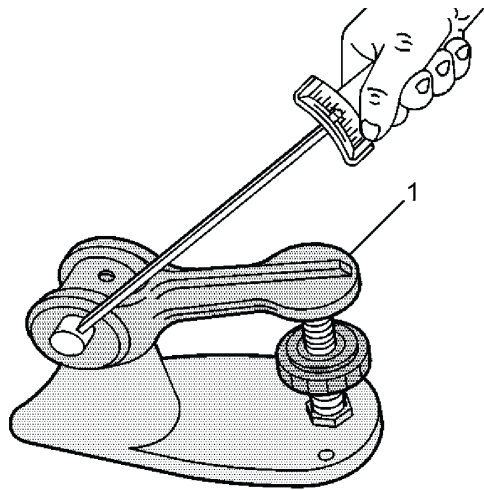
- Thread Repair Specifications



3.

[Click here for full size](#)

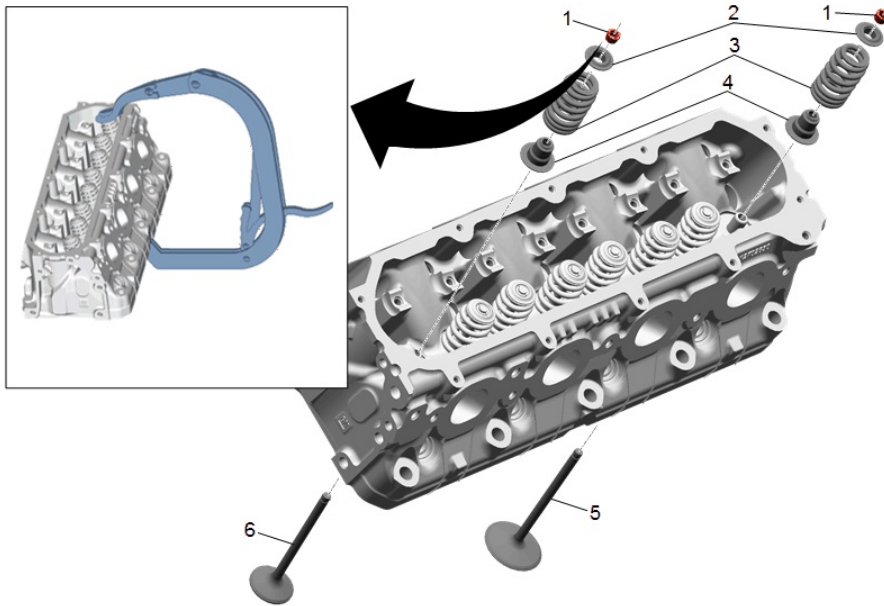
4. Inspect the cylinder head (1) for warpage using a straight edge and feeler gauge. Engine Mechanical Specifications



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

6. Use the *EN-9666* Valve Spring Tester to measure the valve spring tension. Engine Mechanical Specifications

Assemble Procedure



[Click here for full size](#)

1. Exhaust Valve (6) >> Install [8x]

2. Intake Valve (5) >> Install [8x]

3. Note:

Lubricate the valve stem and valve guide ID with clean engine oil. Adhesives, Fluids, Lubricants, and Sealers

4. Valve Stem Oil Seal (4) >> Install NEW [16x]

5. Valve Spring (3) >> Install [16x]

6. Warning:

Compressed valve springs have high tension against the valve spring compressor. Valve springs that are not properly compressed by or released from the valve spring compressor can be ejected from the valve spring compressor with intense force. Use care when compressing or releasing the valve spring with the valve spring compressor and when removing or installing the valve stem keys. Failing to use care may cause personal injury.

7. Valve Spring Cap (2) >> Install [16x]

8. EN-8062 Valve Spring Compressor >> Install

9. Valve Stem Key (1) >> Install [16x]

Installation Procedure

Install the appropriate cylinder head.

- Cylinder Head Replacement - Left Side
- Cylinder Head Replacement - Right Side