

2022 CHEVROLET CORVETTE SERVICE MANUAL

- **SEARCH**

1. **Engine/Propulsion**

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

3. **Repair Instructions**

- 4.

Valve Stem Oil Seal and Valve Spring Replacement

Special Tools

- EN-46116, Valve Stem Seal Remover/Installer
- EN-46335-AA, On-Vehicle Valve Spring Compressor
- EN-51749, Spark Plug Port Adapter
- EN-52751, Flywheel Holding Tool

Equivalent regional tools: Special Tools

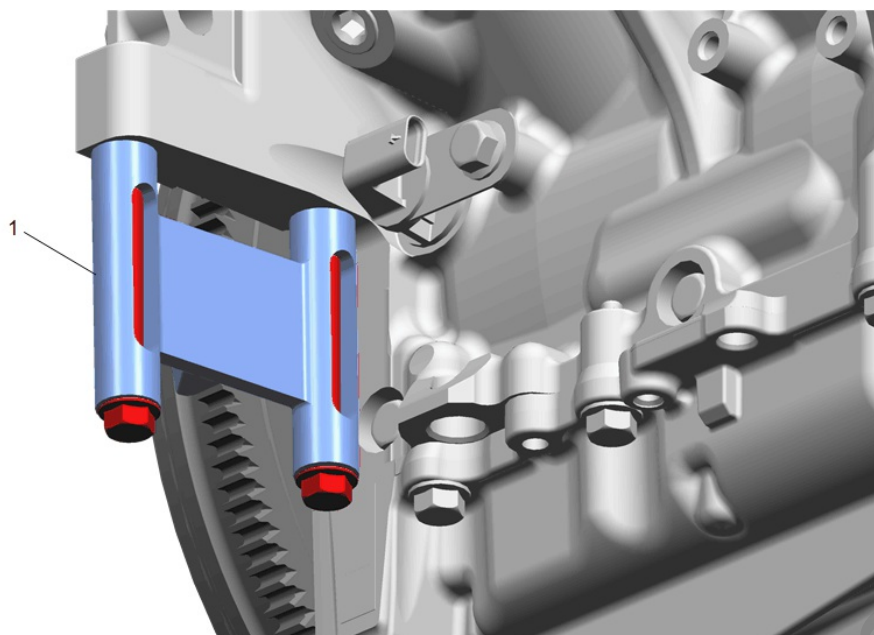
Removal Procedure

1. Remove the appropriate valve rocker arm cover:
2.
 - Valve Rocker Arm Cover Replacement - Left Side
 - Valve Rocker Arm Cover Replacement - Right Side
3. Remove the appropriate valve rocker arm and push rod. Valve Rocker Arm and Push Rod Replacement



4.
Click here for full size

5. Starter (1>) >> Remove - Starter Replacement



6.
Click here for full size

7. Note:

If the *EN-52751* Flywheel Holding Tool is not installed, the crankshaft may rotate. If the crankshaft rotates, disassembly and reassembly of the entire camshaft timing system may be required.

8. Install the *EN-52751* Flywheel Holding Tool (1) to prevent crankshaft rotation.

9. Remove the spark plug from the applicable cylinder.

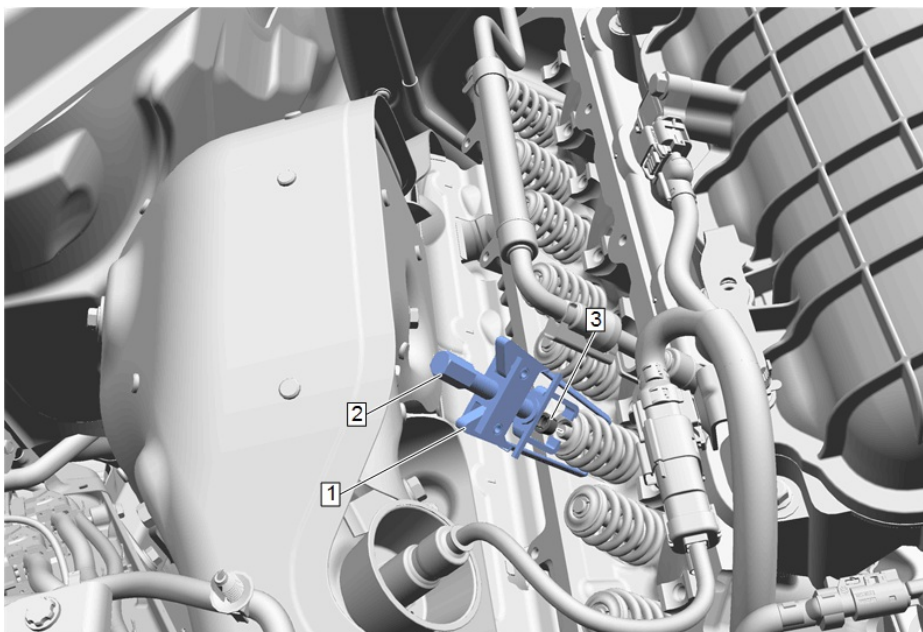
10.

- Gas Engine Ignition Spark Plug Replacement - Left Side
- Gas Engine Ignition Spark Plug Replacement - Right Side

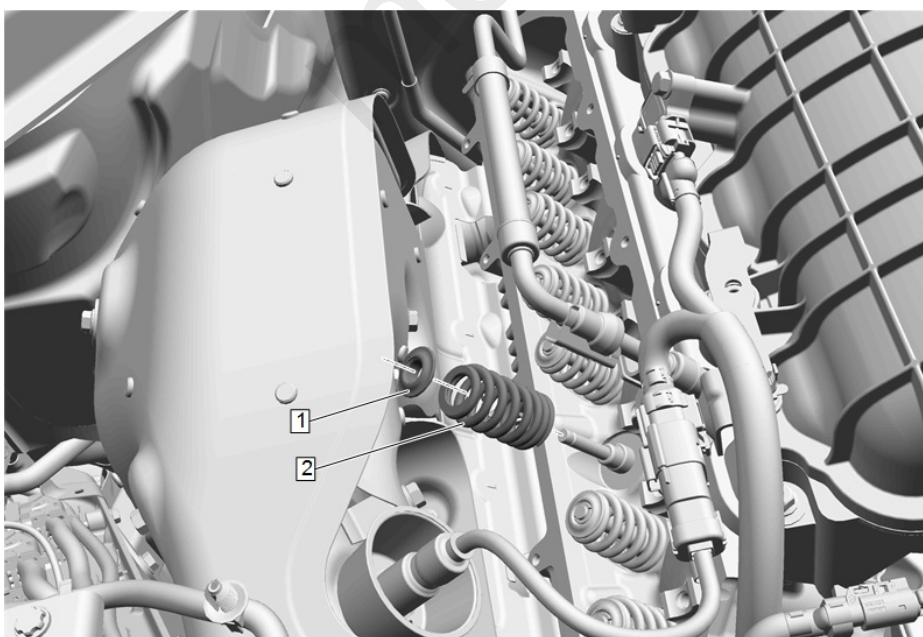
11. Install the *EN-51749* Spark Plug Port Adapter to the applicable cylinder.

12. Connect the *EN-51749* Spark Plug Port Adapter to a compressed air source.

13. Lower the vehicle.

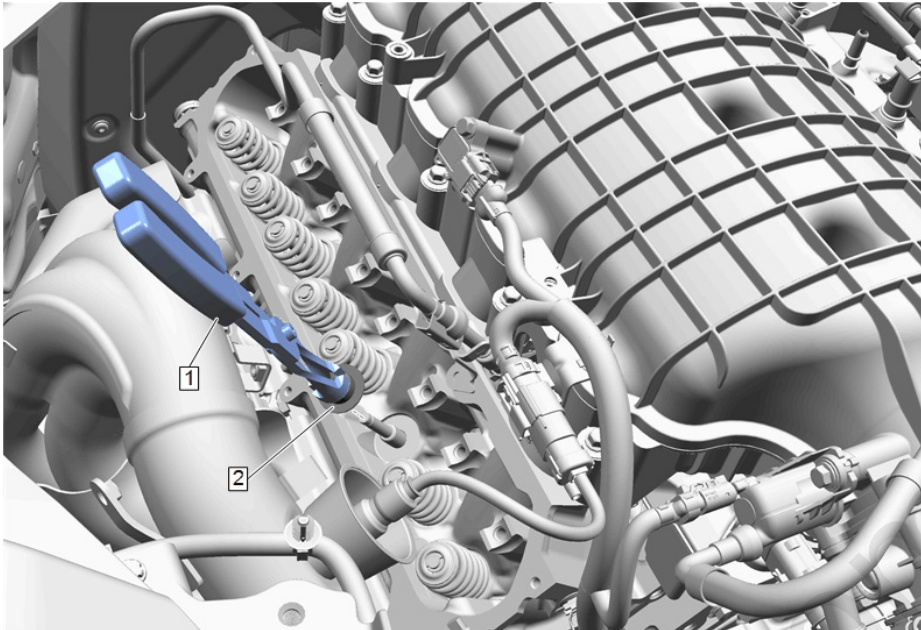


14. [Click here for full size](#)
15. Install the *EN-46335-A* On-Vehicle Valve Spring Compressor (1) above the applicable cylinder as shown.
16. Tighten the *EN-46335-A* On-Vehicle Valve Spring Compressor bolt (2).
17. Valve Stem Key (3) >> Remove
18. Loosen the *EN-46335-A* On-Vehicle Valve Spring Compressor bolt (2) and remove the compressor (1).



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

20. Valve Spring Retainer (1) >> Remove
21. Valve Spring (2) >> Remove

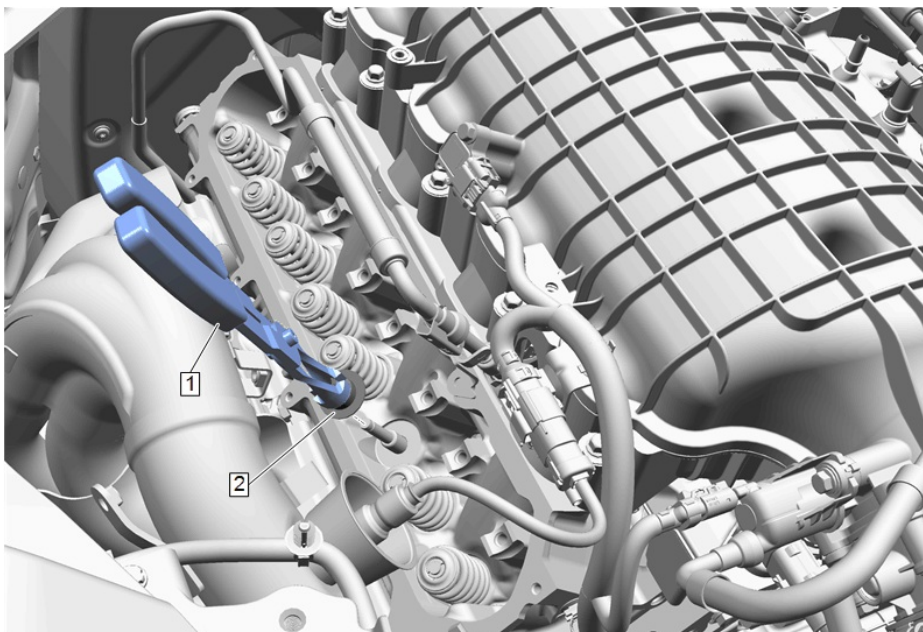


22. [Click here for full size](#)
23. Use the *EN-46116* Valve Stem Seal Remover/Installer (1) to remove the valve stem seal (2).

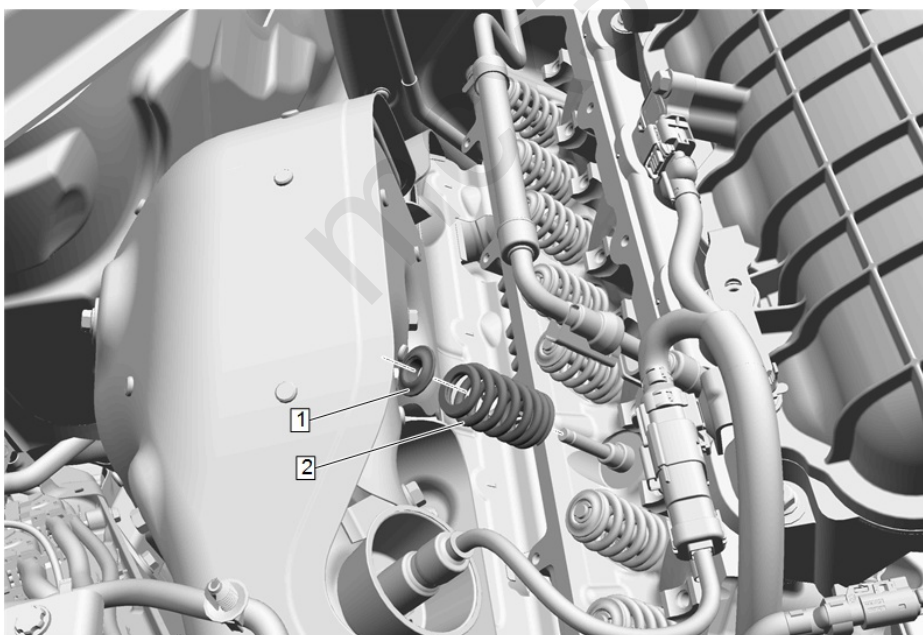
Cleaning and Inspection Procedure

1. Note:
Parts that are to be used again must be marked, sorted or organized for assembly.
2. Mark, sort, or organize the components for assembly. Separating Parts.
3. Clean the components with cleaning solvent.
4. Warning:
Refer to Safety Glasses and Compressed Air Warning.
5. Dry the components with compressed air.

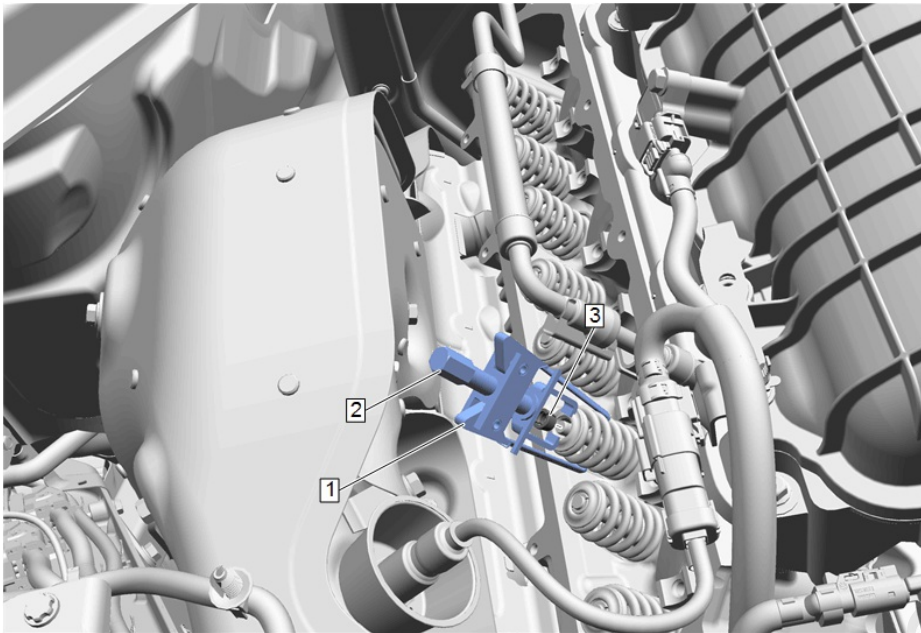
Installation Procedure



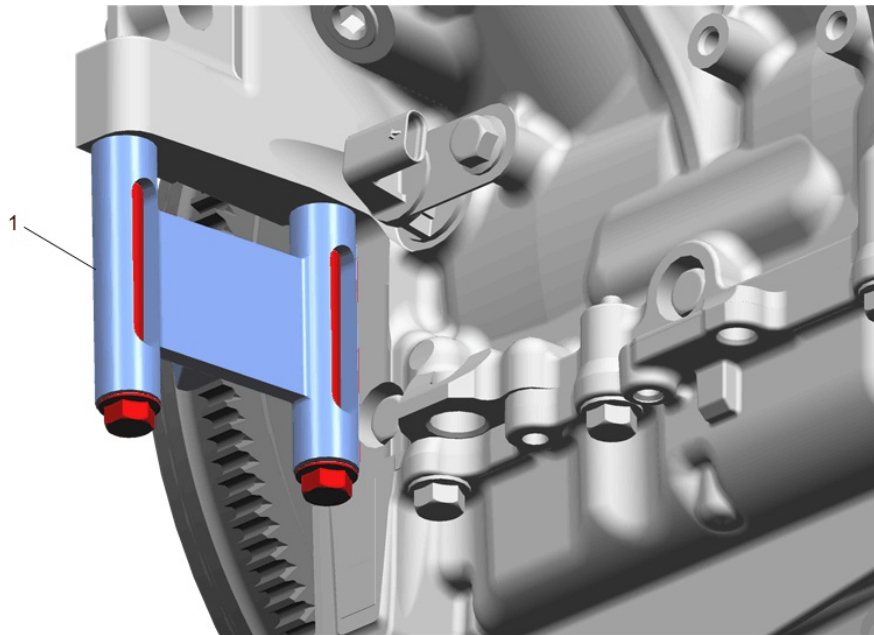
1. [Click here for full size](#)
2. Use the *EN-46116* Valve Stem Seal Remover/Installer (1) to install the valve stem seal (2).



3. [Click here for full size](#)
4. Valve Spring (2) >> Install
5. Valve Spring Retainer (1) >> Install

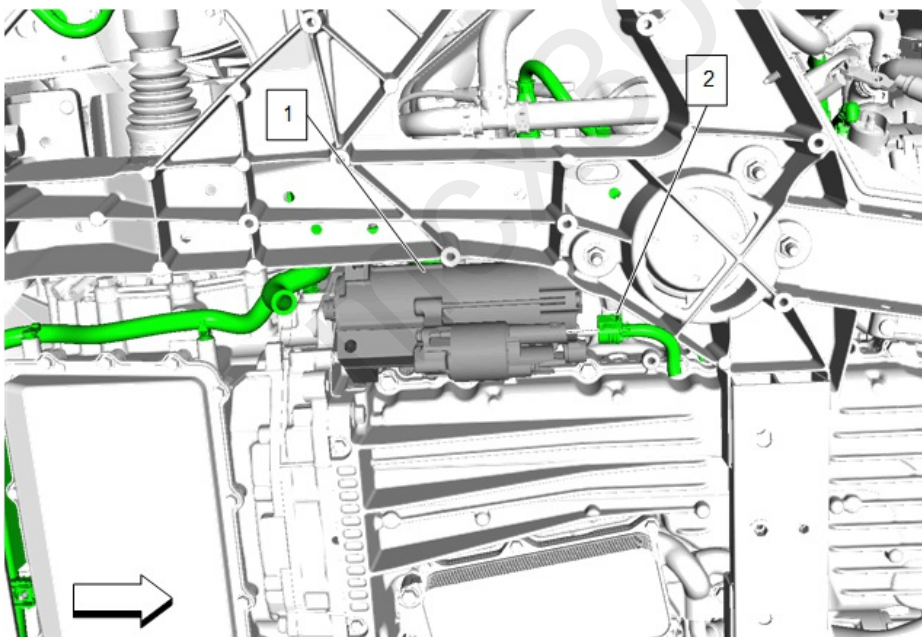


6.
[Click here for full size](#)
7. Install the *EN-46335-A* On-Vehicle Valve Spring Compressor (1) above the applicable cylinder as shown.
8. Tighten the *EN-46335-A* On-Vehicle Valve Spring Compressor bolt (2).
9. Valve Stem Key (3) >> Install
10. *EN-46335-A* On-Vehicle Valve Spring Compressor(1) >> Remove
11. Raise the vehicle.
12. Disconnect the *EN-51749* Spark Plug Port Adapter from the compressed air source.
13. *EN-51749* Spark Plug Port Adapter >> Remove
14. Install the spark plug to the applicable cylinder.
15.
 - Gas Engine Ignition Spark Plug Replacement - Left Side
 - Gas Engine Ignition Spark Plug Replacement - Right Side



16.
[Click here for full size](#)

17. *EN-52751* Flywheel Holding Tool (1) >> Remove



18.
[Click here for full size](#)

19. Starter (1) >> Install - Starter Replacement

20. Install the appropriate valve rocker arm and push rod. Valve Rocker Arm and Push Rod Replacement

21. Install the appropriate valve rocker arm cover:

- 22.
- Valve Rocker Arm Cover Replacement - Left Side
 - Valve Rocker Arm Cover Replacement - Right Side

