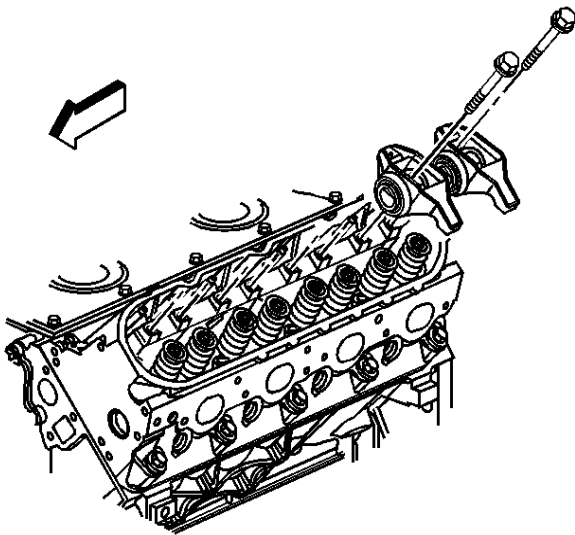


Valve Rocker Arm and Push Rod Replacement

[Removal Procedure](#)

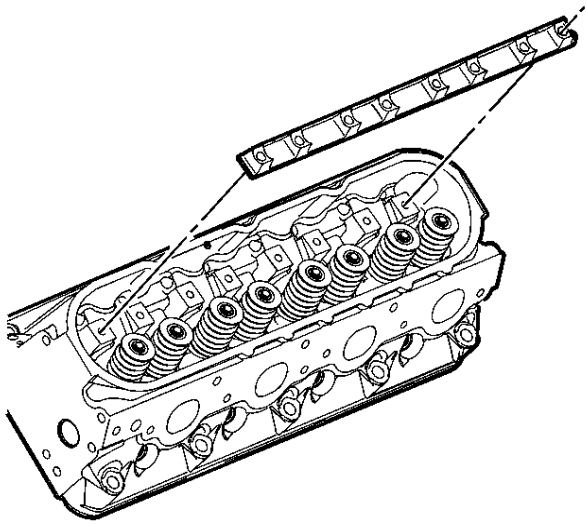


1. Remove the rocker arm cover. Refer to [Valve Rocker Arm Cover Replacement - Left](#) or [Valve Rocker Arm Cover Replacement - Right](#).

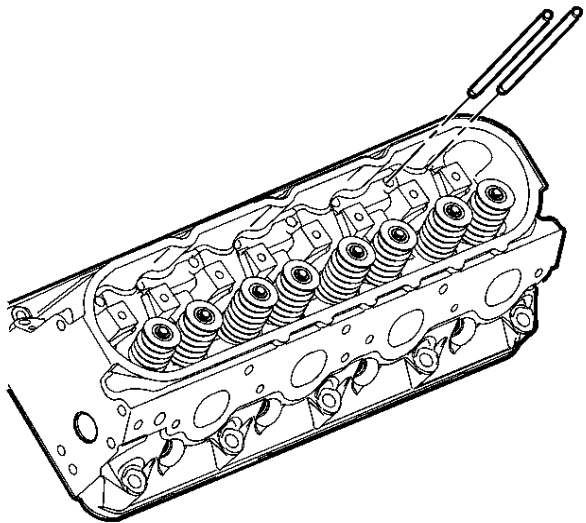
Important

Place the rocker arms, pushrods, and pivot support, in a rack so that they can be installed in the same location from which they were removed.

2. Remove the rocker arm bolts.
3. Remove the rocker arms.



4. Remove the rocker arm pivot support.



5. Remove the pushrods.

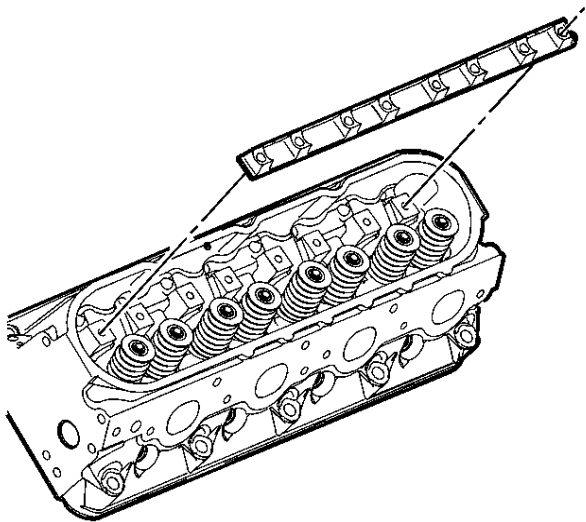
6. If required, clean and inspect the rocker arms and pushrods. Refer to [Valve Rocker Arm and Push Rods Cleaning and Inspection](#) .

Installation Procedure

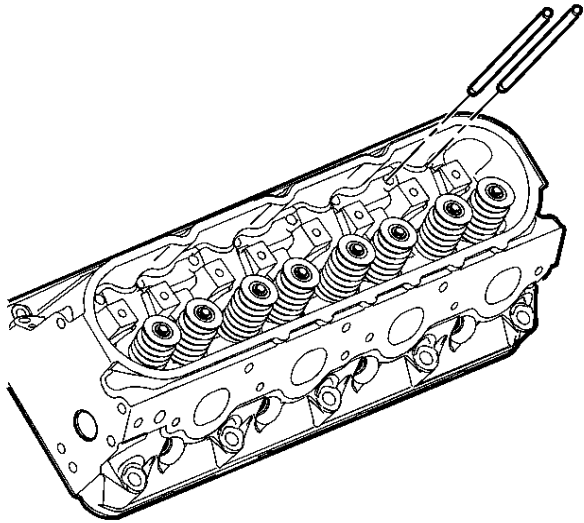
Important

When reusing the valve train components, always install the components to the original location and position.

Valve lash is not build, no valve adjustment is required.



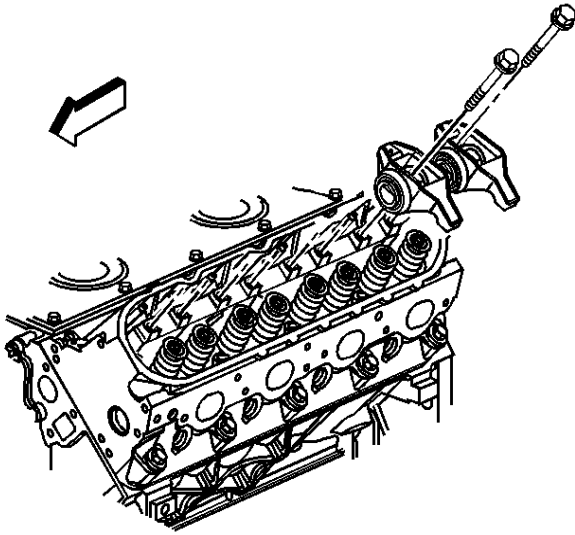
1. Lubricate the rocker arms and pushrods with clean engine oil.
2. Lubricate the flange of the rocker arm bolts with clean engine oil.
Lubricate the flange or washer surface of the bolt that will contact the rocker arm.
3. Install the rocker arm pivot support.



Important

Make sure that the pushrods seat properly to the valve lifter sockets.

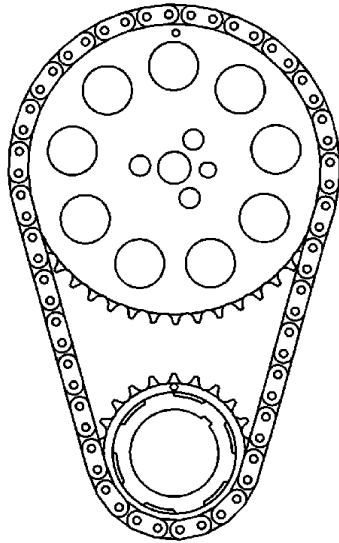
4. Install the pushrods.



Important

Make sure that the pushrods seat properly to the ends of the rocker arms. DO NOT tighten the rocker arm bolts at this time.

5. Install the rocker arms and bolts.



6. Rotate the crankshaft until the number one piston is at top dead center (TDC) of the compression stroke. In this position, cylinder number one rocker arms will be off lobe lift, and the crankshaft sprocket key will be at the 1:30 position. The engine firing order is 1, 8, 7, 2, 6, 5, 4, 3. Cylinders 1, 3, 5 and 7 are the left bank. Cylinder 2, 4, 6 and 8 are the right bank.

Notice

Use the correct fastener in the correct location. Replacement fasteners must be the correct part number for that application. Fasteners requiring replacement or fasteners requiring the use of thread locking compound or sealant are identified in the service procedure. Do not use paints, lubricants, or corrosion inhibitors on fasteners or fastener joint surfaces unless specified. These coatings affect fastener torque and joint clamping force and may damage the fastener. Use the correct tightening sequence and specifications when installing fasteners in order to avoid damage to parts and systems.

7. With the engine in the number one firing position, tighten the following rocker arm bolts:

Tighten

- Tighten cylinders 1,2,7 and 8 exhaust valve rocker arm bolts to 30 N·m (22 lb ft).
 - Tighten cylinders 1,3,4 and 5 intake valve rocker arm bolts to 30 N·m (22 lb ft).
8. Rotate the crankshaft 360 degrees.
9. Tighten the following rocker arm bolts:

Tighten

- Tighten cylinders 3, 4, 5 and 6 exhaust valve rocker arm bolts to 30 N·m (22 lb ft).

- Tighten cylinders 2, 6, 7 and 8 intake valve rocker arm bolts to 30 N·m (22 lb ft).
10. Install the rocker arm cover. Refer to [Valve Rocker Arm Cover Replacement - Left](#) or [Valve Rocker Arm Cover Replacement - Right](#) .
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