

Cylinder Head

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Removal

1. See Top End Overhaul, Disassembly, page 3-35, steps 1-11 and 15-20.

Disassembly

1. Before proceeding with the disassembly procedure, determine if cylinder head reconditioning is necessary. Proceed as follows:

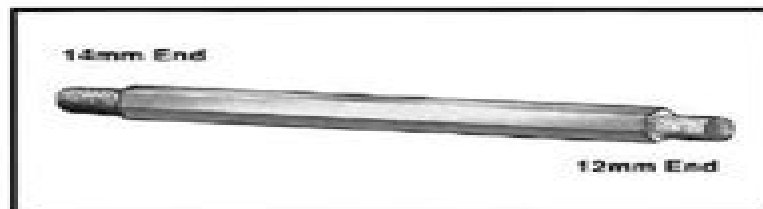


Figure 3-60. Cylinder Head Holding Fixture
(Part No. HD-39786)

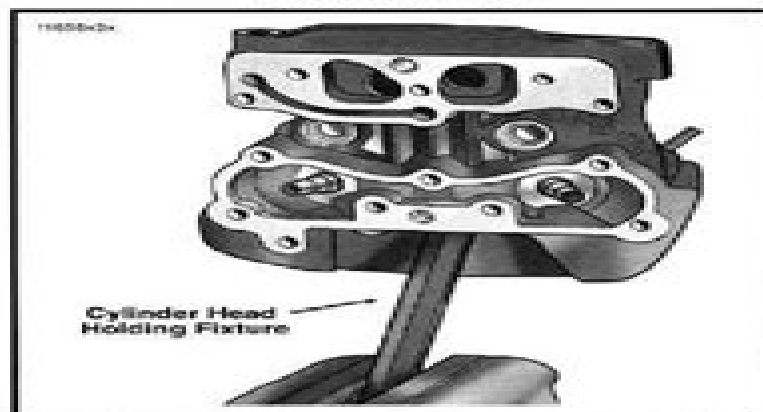


Figure 3-61. Install Cylinder Head Holding Fixture in Vise



Figure 3-62. Valve Spring Compressor
(Part No. HD-34735B)

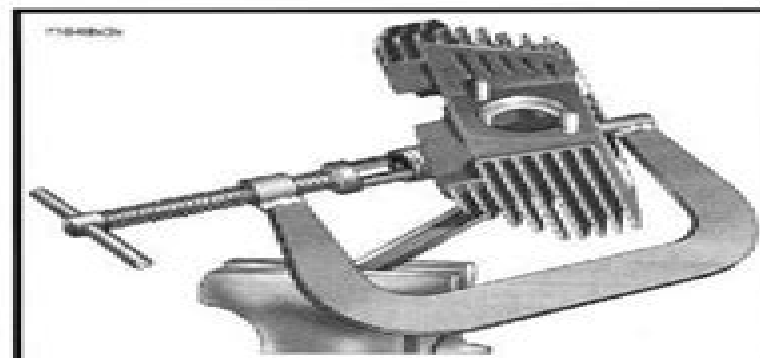


Figure 3-63. Compress Valve Springs

- a. Raise valve ports of cylinder head to strong light source. If light is visible around edges of seats, then move to step 2 to recondition cylinder head.
 - b. Fill ports at top of cylinder head with solvent. Wait ten full seconds and then check for leakage into combustion chamber. If solvent leakage into combustion chamber is evident, then move to step 2 to recondition cylinder head.
2. Obtain the CYLINDER HEAD HOLDING FIXTURE (HD-39786) and proceed as follows:
 - a. Note that both ends of the fixture are threaded, one end at 14mm and the other at 12mm. Thread the 12mm end of the tool into the spark plug hole of the cylinder head.
 - b. Clamp tool in vise at a 45 degree angle (or one that offers a comfortable working position). See Figure 3-61.
 3. Obtain the VALVE SPRING COMPRESSOR (HD-34735B) and proceed as follows:
 - a. Place tool over cylinder head so that the blunt end is centered on the valve head and adapter at end of forcing screw is seated on the valve spring retainer. See Figure 3-63.
 - b. Rotate forcing screw to compress valve springs.

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