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## SERVICE INFORMATION

### GENERAL INSTRUCTIONS

- This section covers maintenance of the cylinder head, valves, camshaft and rocker arms.
- The engine must be removed from the frame for top-end service.
- Camshaft lubricating oil is fed to the cylinder head through an oil control orifice in the engine case. Be sure these orifices are not clogged and that the O-rings and dowel pins are in place before installing the cylinder head.
- Before assembly, apply molybdenum disulfide grease to the camshaft bearings to provide initial lubrication.
- Pour clean engine oil into the oil pockets in the cylinder head to lubricate the cam.

### TOOLS

#### SPECIAL

Valve guide reamer            07984-6570100

#### COMMON

Valve guide remover 6.6 mm    07742-0010200  
 Valve spring compressor        07757-0010000 (or 07957-3290001)  
 Valve guide driver B            07742-0020200 (or 07942-3290200)

### TORQUE VALUES

Cylinder head nut            22 – 28 N·m (2.2 – 2.8 kg-m, 16 – 20 ft-lb)  
 Cam sprocket bolt          17 – 23 N·m (1.7 – 2.3 kg-m, 12 – 17 ft-lb)  
 Valve adjuster cover        10 – 14 N·m (1.0 – 1.4 kg-m, 7 – 10 ft-lb)  
 Cylinder head cover        10 – 14 N·m (1.0 – 1.4 kg-m, 7 – 10 ft-lb)  
 Valve adjuster lock nut     15 – 18 N·m (1.5 – 1.8 kg-m, 11 – 13 ft-lb)

### VALVE SEAT CUTTER (The following are commercially available in the U.S.A.)

Valve seat cutter    35 mm    07780-0010400  
 Valve seat cutter    40 mm    07780-0010500  
 Valve flat cutter    35 mm    07780-0012300  
 Valve flat cutter    38.5 mm 00780-0012400  
 Valve interior cutter 30 mm    00780-0014000  
 Valve interior cutter 37.5 mm 00780-0014100  
 Cutter holder        6.6 mm    00781-0010200