

CYLINDER COMPRESSION

Warm up the engine to normal operating temperature. Stop the engine.

Disconnect all the spark plug wires and remove one spark plug from each cylinder head (page 3-7).

Insert the compression gauge into the spark plug hole.

TOOL:
Compression tester EEPV0554 (2.5-A. step)

Start the transmission into neutral.
Open the throttle all the way and start the engine with the starter motor until the gauge reading stops rising. The maximum reading is usually reached within 4 - 7 seconds.

COMPRESSION PRESSURE:
1,100 kPa (79.8 kg/cm², 100 psi) at 500 rpm

Low compression can be caused by:

- blown cylinder head gasket
- improper valve adjustment
- valve leakage
- worn piston ring or cylinder

High compression can be caused by:

- carbon deposits in combustion chamber or on piston head

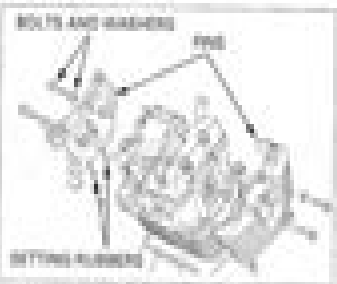


CYLINDER HEAD COVER REMOVAL

Remove the engine from the frame (page 3-6).

Remove the following:

- belts and washers
- cylinder head fins
- timing rollers



- intake manifold (page 3-7). If the cylinder head will be removed.
- spark plug from each cylinder head (page 3-7).
- timing belt cap (page 3-6).
- valve adjusting hole caps.



- 12° to front
- 12° to rear
- 12° to rear
- 12° to rear

Rotate the crankshaft clockwise and align the "T" mark on the primary drive gear with the index mark on the right crankshaft main.
Rotate until the piston is at TDC (Top Dead Center) on the compression stroke. This position can be observed by confirming that there is slack in the rocker arms. If there is no slack, rotate the crankshaft clockwise one full turn and align the "T" mark with the index mark again.



- Do not prime the head cover for fuel until the engine is running.
- Remove the following:
- 8-mm bolt
 - two 8-mm bolts and washer plate
 - two 8-mm cap nuts and washers
 - four 10-mm cap nuts and washers
 - cylinder head cover



- rubber plug
- grommet and O-ring
- timing pin



ROCKER ARM REMOVAL

Remove the cylinder head cover (page 3-6).

Remove the following:

- bolts and washer
- rocker arm shafts and O-rings
- rocker arms



Vtx 1300 Service Manual

David Kirk



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