

CYLINDER HEAD/VALVES

Cylinder head

Check the spark plug hole and valve area for cracks.
Check the cylinder head for warpage with a straight edge and a feeler gauge.

SERVICE LIMIT: 0.05 mm (0.002 in)

NOTE:

Be careful not to damage the gasket surface.



Valve

Inspect the valve for trueness, burning, scratches or abnormal stem wear.

Measure the valve stem O.D.

SERVICE LIMIT: IN/EX: 3.7 mm (0.15 in)

Insert each valve into the valve guide and check the valve movement in the guide.



Valve guide

NOTE:

- Ream the valve guide to remove the carbon build-up before checking the valve guide.
- Always rotate the reamer clockwise, never counterclockwise when installing, removing and reaming.

TOOL:

Valve guide reamer 07JMH – KY20100

Measure and record each valve guide I.D. with a ball gauge or inside micrometer.

SERVICE LIMIT: IN/EX: 3.89 mm (0.153 in)

Calculate the stem-to-guide clearance.

SERVICE LIMIT: IN: 0.075 mm (0.0029 in)
EX: 0.085 mm (0.0033 in)

NOTE:

- If the stem-to-guide clearance exceeds the service limit, determine if a new guide with standard dimensions would bring the clearance within tolerance. If so replace the guides as necessary and ream to fit.
- If the stem-to-guide clearance still exceeds the service limit with new guides, replace the valve and guide.
- Reface the valve seat whenever new valve guides are installed.

