

CYLINDER HEAD/VALVE

HYDRAULIC TAPPET SHIM ADJUSTMENT

NOTE:

Whenever replacing the following parts, the hydraulic tappet shim must be adjusted.

- Cylinder head cover.
- Cylinder head.
- Valve stem, valve guide and valve seat refacing.
- Rocker arm and rocker arm shaft.
- Camshaft.

After bleeding the oil in the hydraulic tappets with the tappet bleeder, install the tappets into the cylinder head.

Install the cylinder head cover and tighten the 8 mm bolts and 10 mm cap nuts to the specified torque.

Install the assist shafts in the holes of the cylinder head cover.

Rotate the crankshaft clockwise and align the timing mark "F.T" with the index mark.

Install the gear holder on the cylinder head cover using the 6 mm bolt and place the dial indicator on the assist shaft.

Measure the assist shaft stroke by rotating the crankshaft clockwise two times.

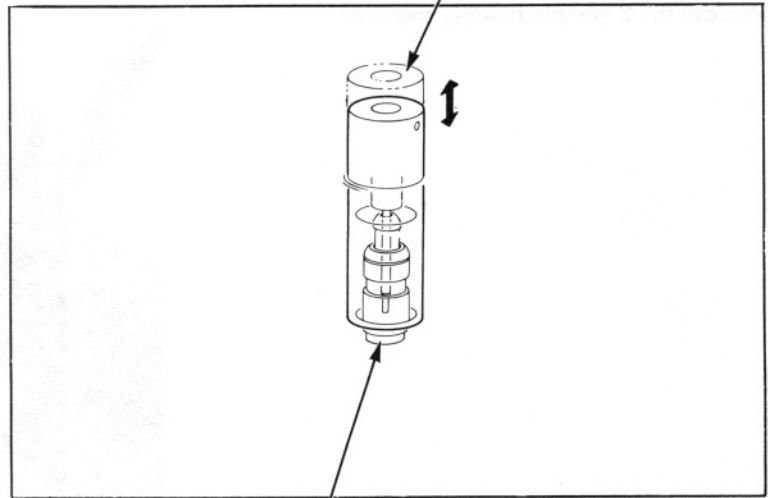
NOTE:

The amount of assist shaft stroke will determine the number of tappet shims needed.

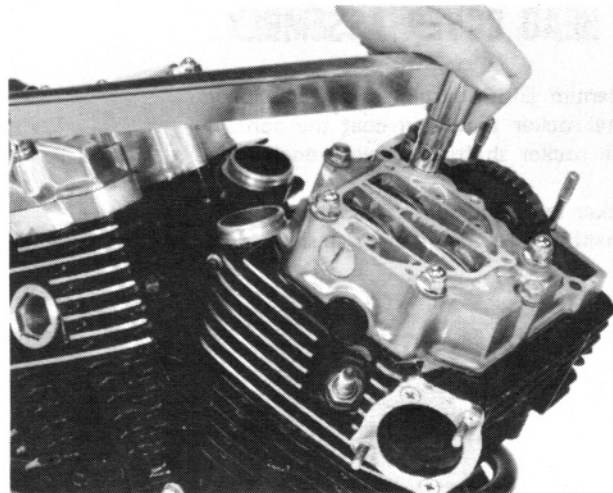
Determine and record the number of shims to be used to each tappet according to the following chart.

Assistant shaft stroke	Number of shims needed 0.5 mm (0.02 in)
0–1.20 mm (0–0.047 in)	0
1.20–1.50 mm (0.047–0.059 in)	1
1.50–1.80 mm (0.059–0.070 in)	2
1.80–2.10 mm (0.070–0.083 in)	3
2.10–2.40 mm (0.083–0.094 in)	4
2.40–2.70 mm (0.094–0.106 in)	5

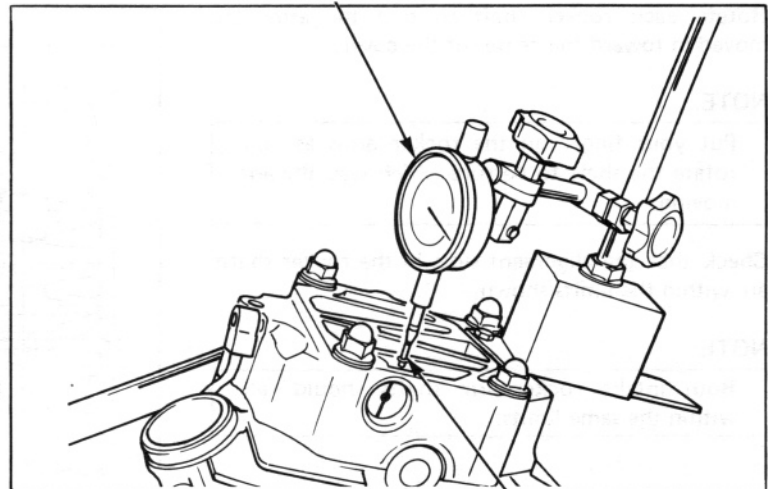
TAPPET BLEEDER
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HYDRAULIC TAPPET



DIAL INDICATOR



ASSIST SHAFT