

Install the assist shafts into their holes in the cylinder head cover.

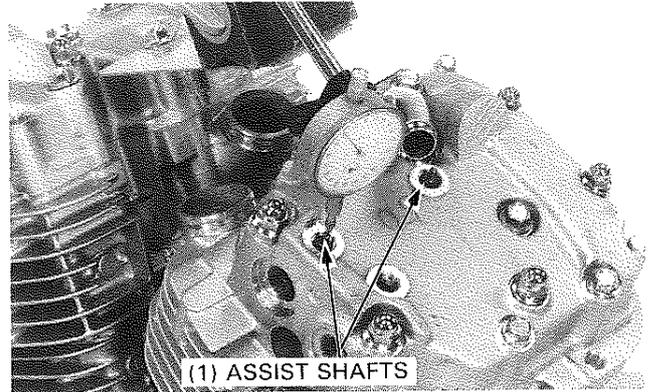
Rotate the crankshaft clockwise and align the "FT" ("RT") mark with the index mark.

Install a gear holder or equivalent plate to the front or rear cylinder head cover as shown 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 required for each tappet according to the following chart.

Assist 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

**CYLINDER HEAD COVER INSTALLATION**

Place the tappet in a container filled with kerosene. Place the tappet bleeder into the tappet. Hold the tappet upright and pump the tappet until air bubbles stop coming out. Remove the tool, and try to quickly compress the tappet by hand. You should not be able to compress it more than 0.2 mm (0.008 in). Remove the tappet from the fluid keeping it upright.

**TOOL:**  
Hydraulic tappet bleeder      07973–MJ00000

Install the shims into each hydraulic tappet hole of the cylinder head.  
Install the hydraulic tappets into the cylinder head.

**CAUTION**

- Do not tilt the hydraulic tappets more than necessary keep them as upright as possible.

Fill the oil pocket with recommended oil.

