

Fig. 5.2 Aligning to the "T" timing mark

- ① "T" mark
- ② Alignment mark

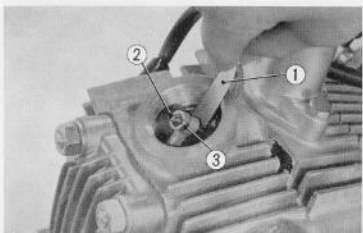


Fig. 5.3 Adjusting tappet clearance

- ① Thickness gauge: 0.05 mm (0.002 in)
- ② Adjusting screw
- ③ Adjust locking nut

- e. In case the compression pressure exceeds 14 kg/cm<sup>2</sup> (199 lb/in<sup>2</sup>), it is an indication of heavy carbon deposit accumulation on the cylinder head or the piston. The deposits should be removed by disassembling the cylinder head from the cylinder.
- f. When the compression pressure registers less than 10 kg/cm<sup>2</sup> (142 lb/in<sup>2</sup>), it is an indication of pressure leak. First, check the tappet adjustment and see if the condition can be corrected, if not, disassemble the engine and inspect the condition of the valves, the cylinder head gasket and piston rings.

## 2. Tappet adjustment

The tappet clearance will have a great deal of effect on the valve timing. If the clearance is too small, it may prevent the valve from fully closing, and result in pressure leak at the valve. On the other hand, an excessive tappet clearance will produce tappet noise and result in noisy engine operation. Tappet clearance will have a varying degree of effect on the engine power output as well as engine operation at slow speed.

### 1. Valve clearance

- a. Remove the left crankcase cover and align the timing mark "T" ① on the flywheel with the alignment mark ② on the stator. (Fig. 5.2)
- b. Remove the tappet adjusting caps on the cylinder head and check the clearance between the adjusting screw and the valve. (Fig. 5.3)

If the valve is actuated by the rocker arm and is in the open position, rotate the flywheel one complete revolution to set the piston at top-dead-center of the compression stroke, and then perform the check.

### 2. Adjustment

Loosen the adjusting screw locking nut ③ and make the adjustment with the adjusting screw ② to obtain the standard clearance of 0.05 mm (0.002 in) for both the inlet and exhaust valves.

Turn screw clockwise to obtain closer clearance.

Turn screw counter-clockwise for wider clearance.

The tappet clearance adjustment for all valves are identical.