

	No. 1	No. 2	No. 3	No. 4
IN	○	×	○	×
EX	○	○	×	×

**Note:** The cylinder are numbered 1~4 starting from the left side.

- b. Check the clearance of both valves by inserting the thickness gauge, provided in the tool kit, between the tappet adjusting screw and the valve stem. If clearance is correct, there will be slight drag or resistance as the gauge is inserted. If clearance is too small or large, adjustment is necessary. (Fig. 3-57)

The standard valve tappet clearance is

IN	0.002 in (0.05 mm)
EX	0.003 in (0.08 mm)

- c. Adjustment is made by loosening the tappet screw lock nut and turning the adjusting screw until there is a slight drag on the thickness gauge. Hold the tappet adjusting screw in this position and tighten the lock nut. Recheck the clearance with the gauge. Next, turn the crankshaft 360°, this will put No. 4 piston into the top-dead-center of the compression stroke and will permit the checking of the remaining valve tappet clearances marked × in the table above.
4. Install the cylinder head cover and breather cover.



Fig. 3-56 ① Index mark  
② "T" mark

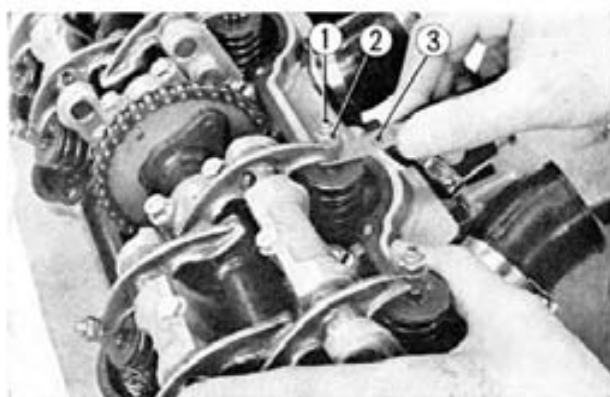


Fig. 3-57 ① Valve tappet adjusting screw  
② Valve tappet lock nut  
③ Thickness gauge

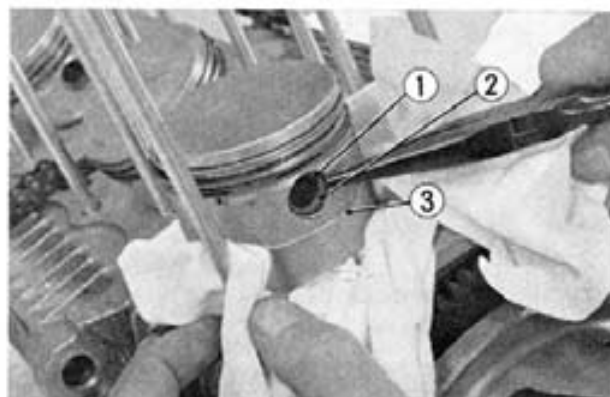


Fig. 3-58 ① Piston pin clip ③ Piston  
② Piston pin

### 3-5 PISTON AND CYLINDER

#### a. Description

The piston is made from selected aluminum alloy casting. This material is light and making it suitable for high speed. In addition, it possess good heat conducting property to rapidly dissipate heat. Furthermore, the coefficient of heat expansion is small thus minimizing the warpage at elevated temperature and permitting a small piston to cylinder clearance design.

#### b. Disassembly

1. Remove the cylinder in accordance with section 3-3 b on page 32~35.
2. Remove the piston pin clip, push out the piston pin and remove the piston from the connecting rod. (Fig. 3-58)

**Note:** During the piston pin clip removal, exercise care not to drop the clip into the crankcase.

3. Remove the piston rings from the piston.