

5. Position the crankshaft so that the woodruff key ① is on the cylinder centerline and in the direction of the cylinder head. Align the "O" mark ② on the cam sprocket to the index mark on the cylinder head (the sprocket mounting bolt holes will be in line with the cylinder centerline) and then connect the cam chain ③. (Fig. 3.40)
6. Slide the camshaft ① into the cylinder head through the sprocket ② with the pin hole toward the head cover.

The valve and the piston are in the top-dead center position of the compression stroke. (Fig. 3.41)

7. Assemble the point base ① on the camshaft extension using an oil seal guide tool (Tool No. 07057-03301). (Fig. 3.42)

Damage to the oil seal may result if tool is not used, resulting in oil leak.

8. Install the 3 × 5.2 guide pin and assemble the spark advancer.
9. Assemble the contact breaker assembly and connect the leads.
10. Assemble the A. C. generator on the crankshaft.
11. Perform tappet clearance adjustment and ignition timing.
12. Install the point cover and the left crankcase cover.

### 3.6 CYLINDER

#### A. Construction

The cylinder is made of special cast iron. The inside cylinder wall is exposed to high temperature and pressure together with the wearing action of the reciprocating piston operating at high speed to produce a great wearing effect. Added to this, the dust in the air and the foreign object and the metallic dust contaminating the oil will hasten the rate of wear, therefore, adequate attention should be given to the cleaning of the air filter and the oil change. (Fig. 3.43)

The piston receives the combustion energy and transmits the high reciprocating motion to the crankshaft where it is converted to the rotational motion.

Due to the high speed friction between the piston and cylinder, the selection of the materials and the tolerance of the moving parts must be selected with great care.

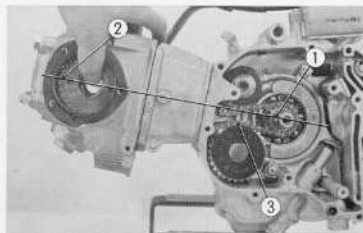


Fig. 3.40 Connecting the cam chain  
① Woodruff key ② "O" mark ③ Cam chain

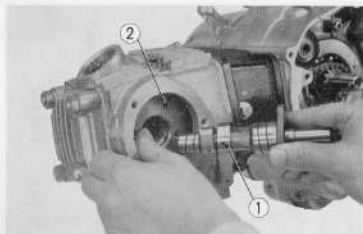


Fig. 3.41 Assembling the camshaft  
① Camshaft ② Cam sprocket

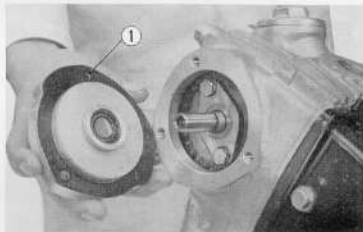


Fig. 3.42 Installing the point base ① Point base



Fig. 3.43 Cylinder