

① 8mm bolt ② 6mm bolt
Fig. 3-71A. Crankcase bolt

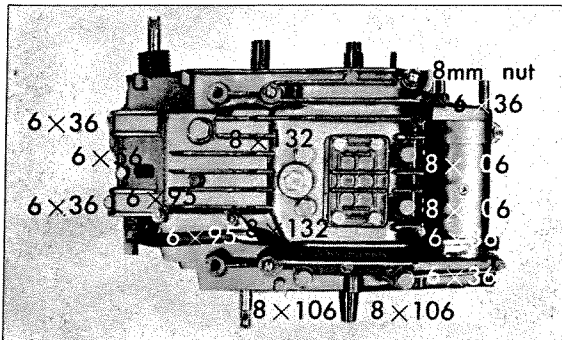
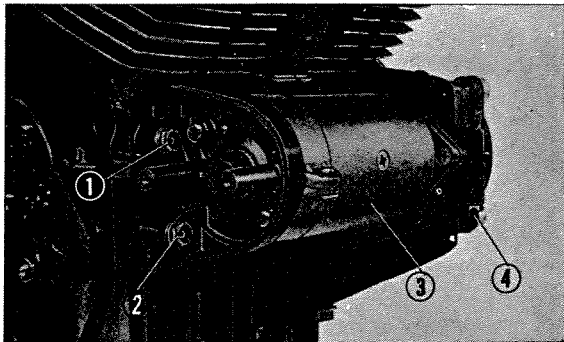


Fig. 3-71B. Bolts and nuts on the lower crankcase



① 6×20 hex bolt ② 6×28 hex bolt ③ Starting motor
④ 4×36 hex bolt
Fig. 3-72. Removing the starting motor

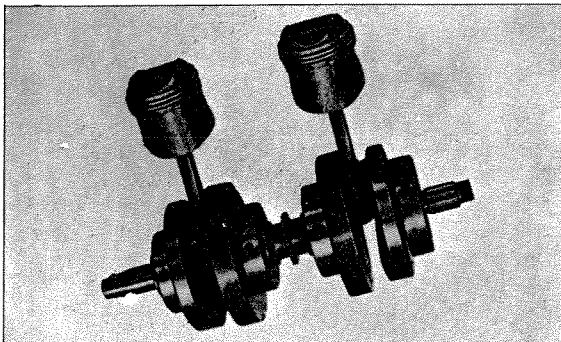


Fig. 3-73A. Crankshaft.

B. Disassembly

1. Drain oil in the crankcase.
2. Remove the cylinder head and cylinder.
3. Separate the left crankcase cover and AC generator.
4. Separate the right crankcase cover, oil filter, clutch and oil pump.
5. Remove 8 mm nut and 6 mm nut from the stud bolts at the upper part of the upper crankcase. (Fig. 3-71-A)
6. Remove 8 mm nut, 6 mm bolts and 8 mm bolts from the lower crankcase. (Fig. 3-71-B)
7. Remove the two 5×12 cross screws and starting motor side cover, and then remove the 6×20 and 6×28 bolts on the right hand side of the crankcase which mount the starting motor. (Fig. 3-72)
8. By removing the 6×35 bolt on the left hand side at the starting motor which is supported by the crankcase, the starting motor can be removed.
9. While the key on the gear shift arm is released from the shift drum, dismount the motor.

C. Inspection

1. Check for damages especially around the machined mating surfaces since even a small defect will cause oil leaks.
The mating surfaces should be flat to within 0.05 mm (0.002 in). Measure with a thickness gauge on surface plate.

D. Reassembly

1. Assembly should be performed with attention paid to the following points
 - Clean the crankcase and inspect the mating surfaces of the crankcase for sign of leaks, scratches and other damages.
 - Apply liquid gasket to the mating surfaces of the case; assemble after drying.

3.7 CRANKSHAFT, CONNECTING RODS, AND PISTONS

A. Construction

The crankshaft journals are made of high carbon steel and the counterweights are of nickel-chrome-molybdenum steel, assembled by press fitting. Crankshaft is supported by three roller bearings and one ball bearing which takes the thrust load and are fixed in place by dowel pins. Sprocket to drive the cam chain is machined on the center shaft. (Fig. 3-73A, B)