

8-2 ALTERNATOR

a. Description

The alternator consists of the field coil, stator coil and the rotor. Field coil and the stator coil are mounted on the dynamo cover while the rotor is mounted on the crankshaft (Fig. 8-4).

b. Disassembly

1. Remove the dynamo cover and pull out the generator rotor using the rotor puller (Tool No. 07933-3000000) (Fig. 8-5)
2. Remove the stator coil from the dynamo cover by unscrewing the four 6mm bolts (Fig. 8-6).
3. Remove the field coil from the dynamo cover by unscrewing the three screws (Fig. 8-7).

c. Inspection

1. Field coil continuity test

The insulation and open circuit condition of the field coil winding is checked with a tester. If there is continuity between the lead wires and the core, the coil is grounded and if there is no continuity between the two lead wires, the coil has an open circuit, in either case, the coil is defective and must be replaced. The rated resistance value is 7.2Ω . (Fig. 8-8)



Fig. 8-8 ① Field coil
② Tester

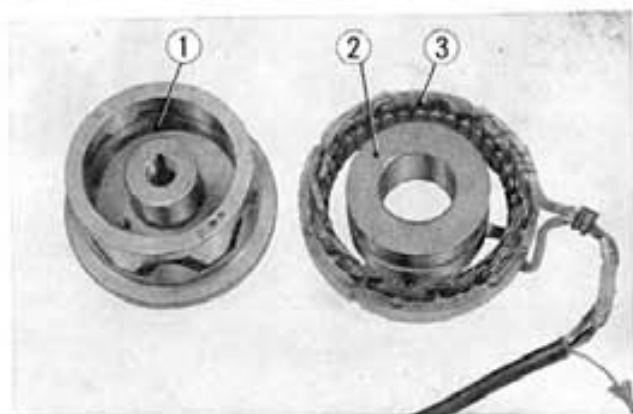


Fig. 8-4 ① Generator rotor
② Field coil ③ Stator coil

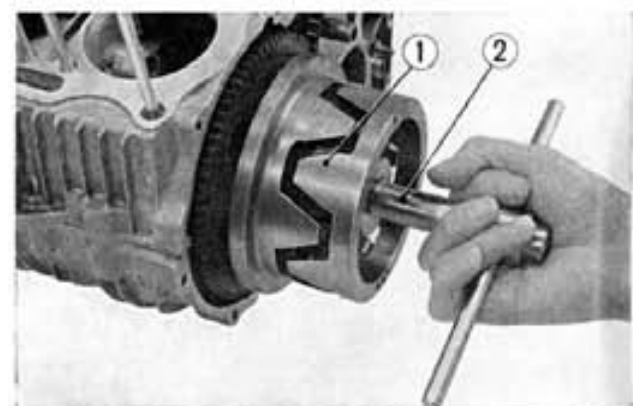


Fig. 8-5 ① A.C generator rotor
② Rotor puller

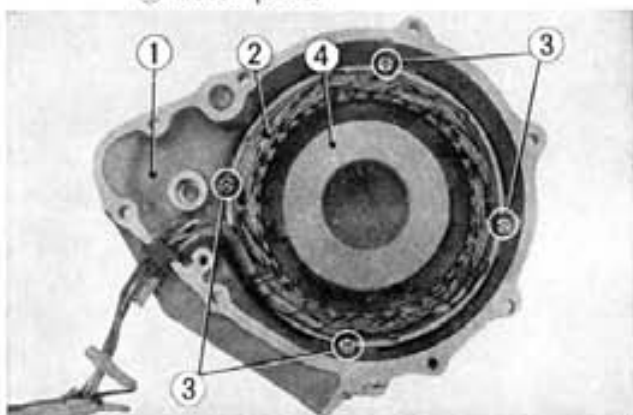


Fig. 8-6 ① Dynamo cover ③ 6mm cross screws
② Stator coil ④ Field coil

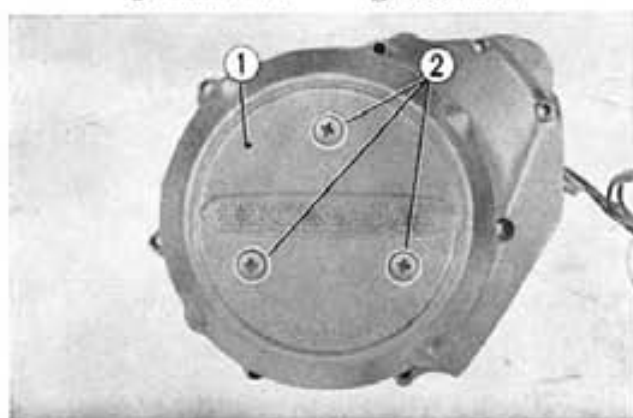


Fig. 8-7 ① Dynamo cover
② 6mm cross screws