



Fig. 9-7 ① Commutator
② Mica

2. Checking the amount of mica undercut.
Measure the amount of mica undercut and if the difference in height is less than **0.012 in. (0.3 mm)**, it should be repaired. It is recommended that this repair be performed by a specialist. (Fig. 9-7)
3. Armature insulation test
Perform a continuity test between the commutator and the shaft mounting area. If a short is indicated, a defect is in the armature and, therefore, it should be replaced.
4. Measuring the starting current.

The current draw of the starting motor can be measured with the Honda service tester by using external shunt (refer to the service tester operational manual for the testing procedure)

The starting motor should conform to the standard value shown in the specification on page 104.

d. Reassembly

Perform the reassembly in the reverse order of disassembly.

9-3 STARTING CLUTCH

a. Description

The one way clutch is used for starter clutch which incorporates the A.C. generator rotor connected to the crankshaft. As the rotation of the starting motor is transmitted to the starting clutch gear, the rollers within the starting clutch will move the narrow section of the slot to lock the starting clutch (lock to A.C. generator rotor) and ensuring the starting clutch to rotate. (Fig. 9-8)

Since the generator rotor is mounted on the crankshaft with a key, the crankshaft will rotate and causes the engine to start. After the engine starts and the crankshaft speed exceeds the speed of the starting clutch gear, the roller between the starting clutch gear and the clutch outer will move toward the wide section of the groove due to centrifugal force and the transmission of the rotating force will no longer be transmitted. As a result, the crankshaft rotation will no longer be transmitted to the starting motor.

b. Disassembly

Perform the disassembly in accordance with 3-6 b on page 46.

c. Inspection

1. Check to make sure that the clutch roller operates smoothly.
2. Inspect the starting clutch for defect.

d. Reassembly

Perform the reassembly in accordance with 3-6 d on page 53.