

## DISASSEMBLY

### 1. REMOVE DUST PROTECTOR

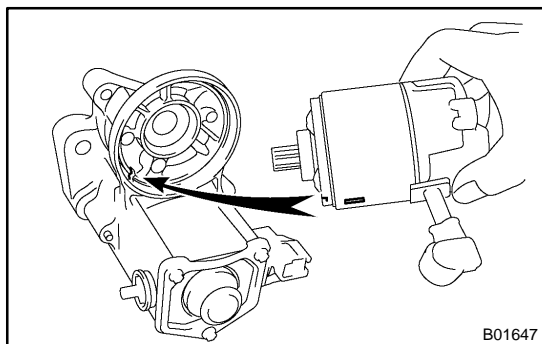
### 2. REMOVE FIELD FRAME AND ARMATURE

- (a) Remove the nut, and disconnect the lead wire from the magnetic switch terminal.

**Torque: 5.9 N·m (60 kgf·cm, 52 in.-lbf)**

- (b) Remove the 2 through bolts.

**Torque: 5.9 N·m (60 kgf·cm, 52 in.-lbf)**



- (c) Pull out the field frame together with the armature.

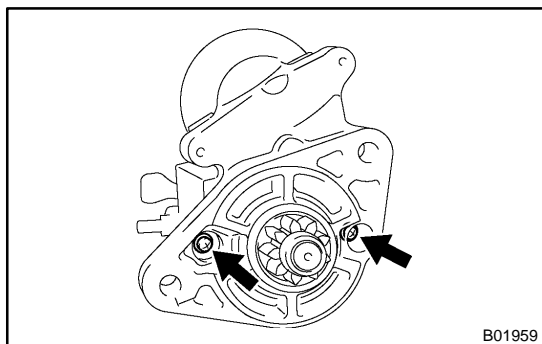
**HINT:**

At the time of reassembly, align the protrusion of the field frame with the cutout of the magnetic switch.

- (d) Remove the O-ring from the field frame.

**HINT:**

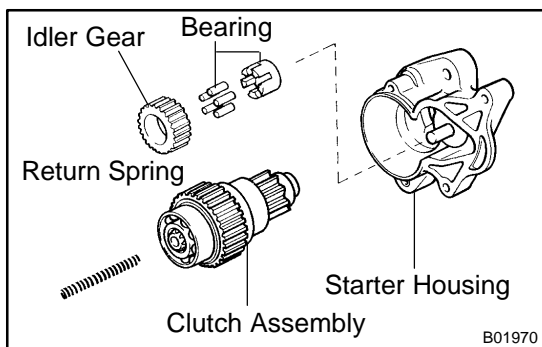
At the time of reassembly, use a new O-ring.



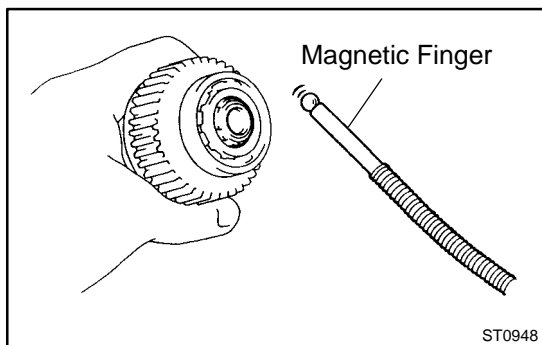
### 3. REMOVE STARTER HOUSING, CLUTCH ASSEMBLY AND GEAR

- (a) Remove the 2 bolts.

**Torque: 5.9 N·m (60 kgf·cm, 52 in.-lbf)**

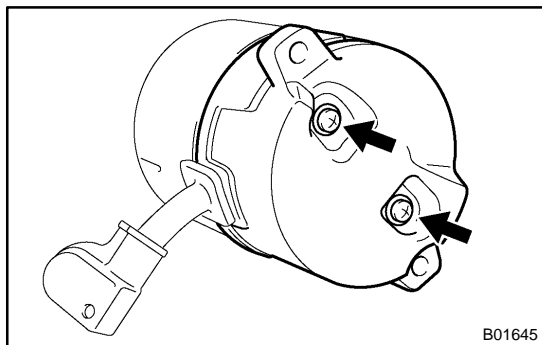


- (b) Remove the starter housing, idler gear, bearing, clutch assembly and return spring from the magnetic switch.



### 4. REMOVE STEEL BALL

Using a magnetic finger, remove the steel ball from the clutch shaft hole.

**5. REMOVE BRUSH HOLDER**

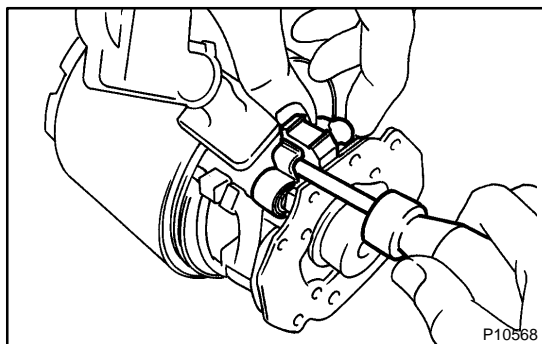
- (a) Remove the 2 screws and end cover from the field frame.

**Torque: 1.5 N·m (15 kgf·cm, 13 in.-lbf)**

- (b) Remove the O-ring from the field frame.

**HINT:**

At the time of reassembly, use a new O-ring.



- (c) Using a screwdriver, hold the spring back and disconnect the brush from the brush holder. Disconnect the 4 brushes, and remove the brush holder.

**NOTICE:**

At the time of reassembly, check that the positive (+) lead wires are not grounded.

**6. REMOVE ARMATURE FROM FIELD FRAME**