

## DISASSEMBLY

### 1. REMOVE 2 DUST PROTECTORS

### 2. REMOVE FIELD FRAME AND ARMATURE

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

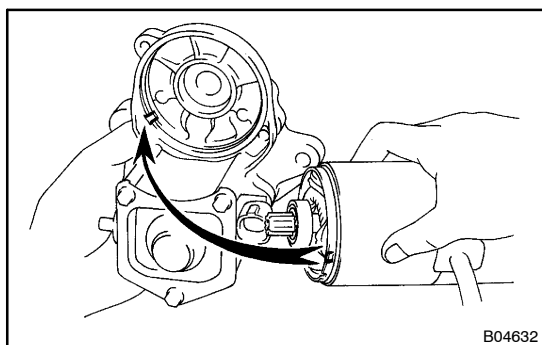
**Torque: 5.9 N·m (60 kgf·cm, 52 in.·lbf)**

- (b) Remove the 2 through bolts.

**Torque:**

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

**2.0 kW: 9.3 N·m (95 kgf·cm, 82 in.·lbf)**



- (c) Pull out the field frame together with the armature from the magnetic switch assembly.

### NOTICE:

**At the time of notice, please refer to the following items.**

**Align the protrusion of the field frame with the groove of the magnetic switch.**

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

### HINT:

At the time of assembly, please refer to the following items.  
Use a new O-ring.

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

- (a) 1.4 kW

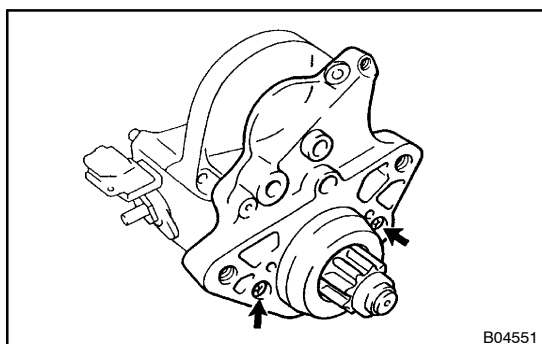
Remove the 2 bolts.

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

- (b) 2.0 kW

Remove the 2 screws.

**Torque: 9.3 N·m (95 kgf·cm, 82 in.·lbf)**



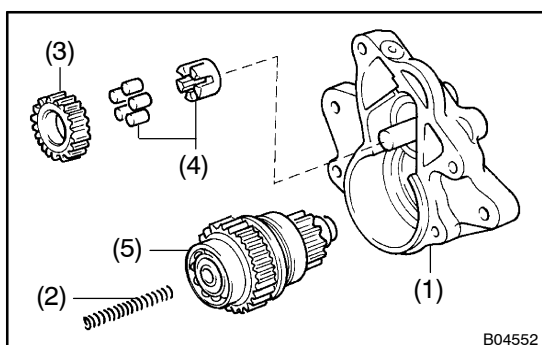
- (c) Remove these parts from the magnetic switch assembly:

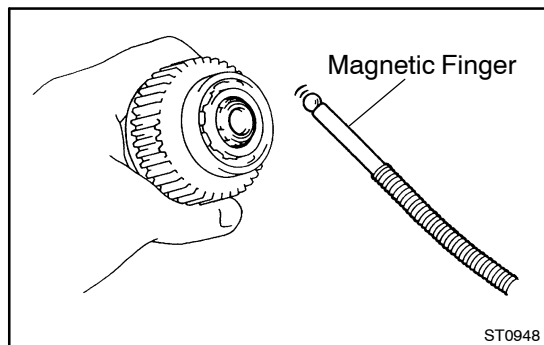
- (1) Starter housing
- (2) Return spring
- (3) Idler gear
- (4) Bearing
- (5) Starter clutch assembly

### HINT:

At the time of assembly, please refer to the following items.

Apply grease to the return spring and insert the return spring into the clutch shaft hole.



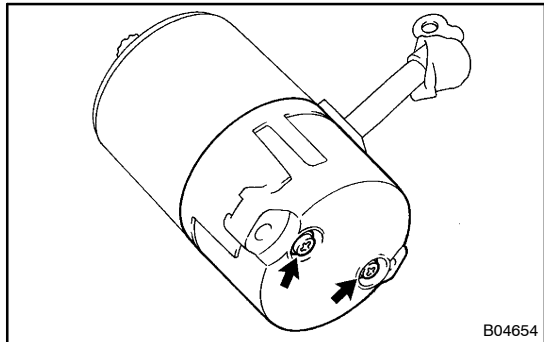


#### 4. REMOVE STEEL BALL

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

##### HINT:

At the time of assembly, please refer to the following items.  
Apply grease to the steel ball and insert the steel ball into the clutch shaft hole.



#### 5. REMOVE BRUSH HOLDER

- (a) Remove the 2 screws w/ O-ring and end cover from the field frame.

##### Torque:

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

**2.0 kW: 3.8 N·m (39 kgf·cm, 34 in.·lbf)**

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

##### HINT:

At the time of assembly, please refer to the following items.  
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:

**Check that the positive (+) lead wires are not grounded.**

#### 6. REMOVE ARMATURE FROM FIELD FRAME

