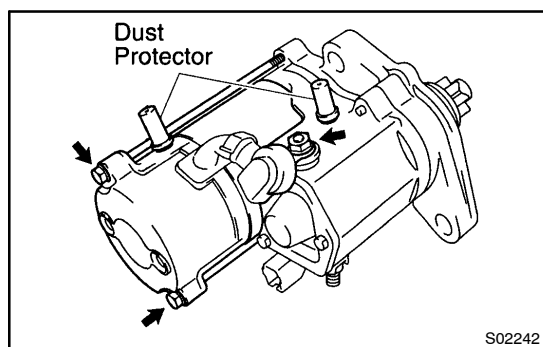




DISASSEMBLY

1. REMOVE DUST PROTECTORS

2. REMOVE FIELD FRAME AND ARMATURE

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

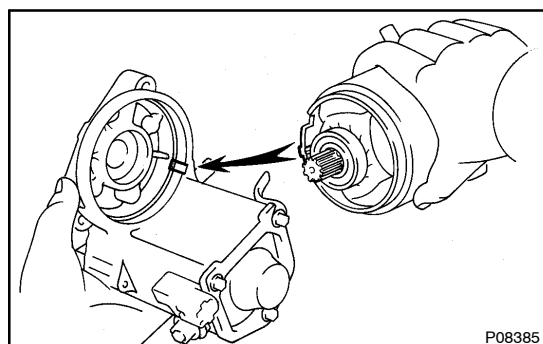
Torque: 5.9 N·m (60 kgf·cm, 52 in·lbf)

- (b) Remove the 2 through bolts.

Torque:

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

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



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

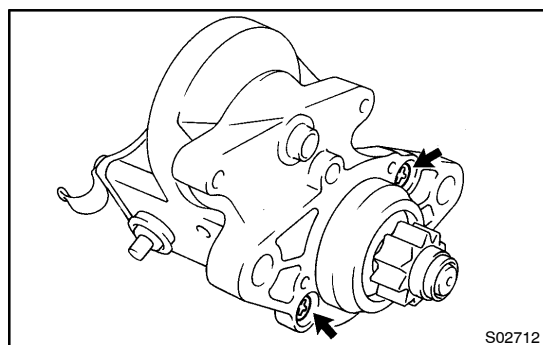
HINT:

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

- (d) Remove the O-ring.

HINT:

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



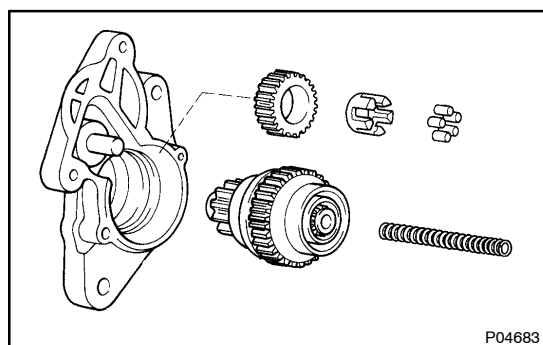
3. REMOVE STARTER HOUSING, CLUTCH ASSEMBLY AND GEAR

- (a) Remove the 2 screws.

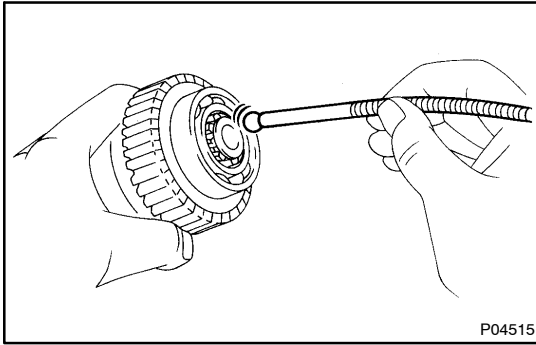
Torque:

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

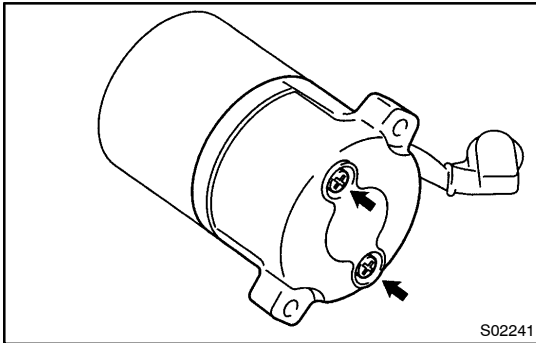
2.0 kW type: 9.3 N·m (95 kgf·cm, 82 in·lbf)



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

**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, 2 O-rings and end cover from the field frame.

Torque:

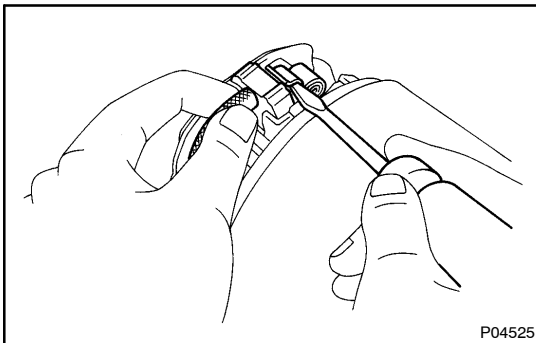
1.4 kW type: 1.5 N·m (15 kgf·cm, 13 in.·lbf)

2.0 kW type: 3.8 N·m (40 kgf·cm, 35 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 four brushes and remove the brush holder.

NOTICE:

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

6. REMOVE ARMATURE FROM FIELD FRAME