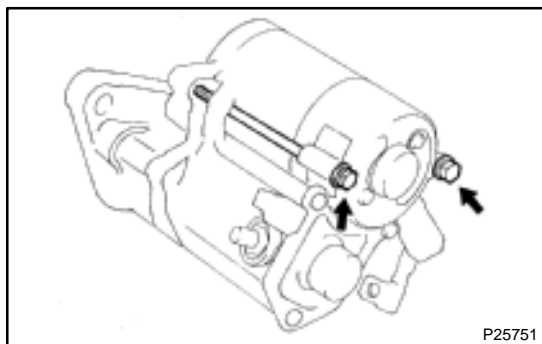


DISASSEMBLY

1. REMOVE FIELD FRAME AND ARMATURE

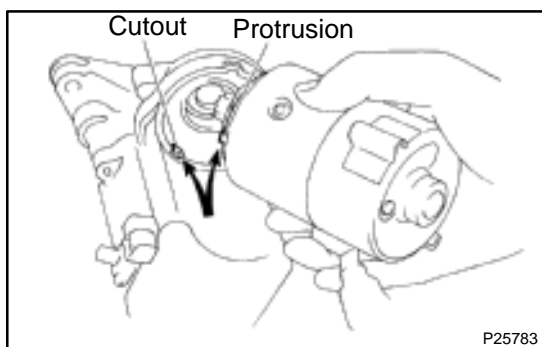
- (a) Remove the nut, and disconnect the lead wire from the magnetic switch terminal.

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



- (b) Remove the 2 through bolts.

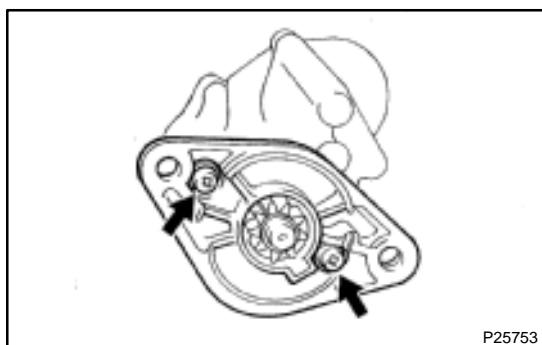
Torque: 9.3 N·m (95 kgf·cm, 82 in.-lbf)



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

HINT:

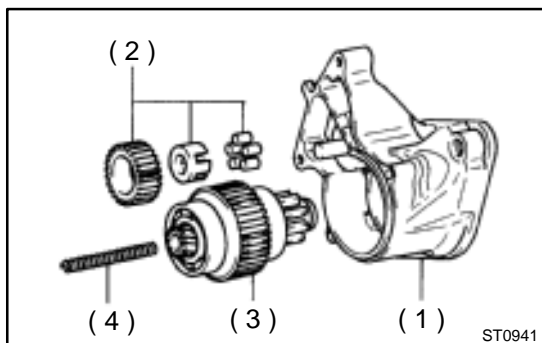
At the time of reassembly, please refer to the following item.
Align the protrusion of the field frame with the groove of the magnetic switch.



2. REMOVE STARTER HOUSING, CLUTCH ASSEMBLY AND GEAR

- (a) Remove the 2 screws.

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

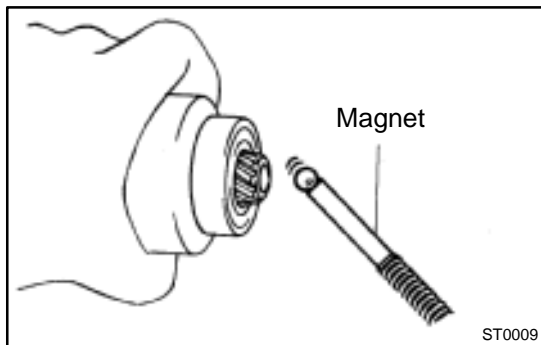


- (b) Remove these parts from the magnetic switch:

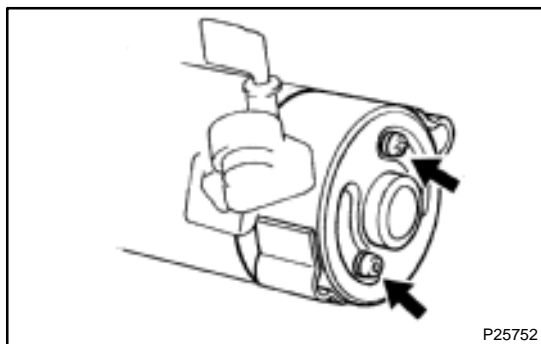
- (1) Starter housing
- (2) Idler gear and bearing
- (3) Clutch assembly
- (4) Return spring

HINT:

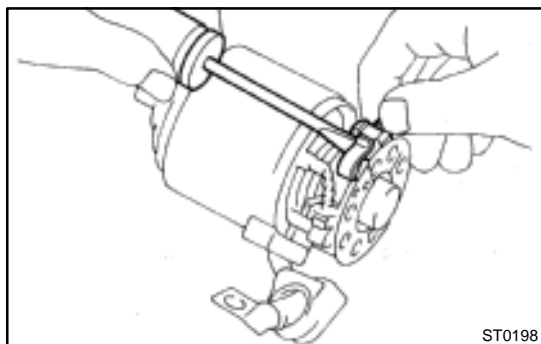
Insert the return spring in to the magnetic switch hole.

**3. REMOVE STEEL BALL**

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

**4. REMOVE BRUSHES AND BRUSH HOLDER**

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



(b) 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 wire are not grounded.

5. REMOVE ARMATURE FROM FIELD FRAME