

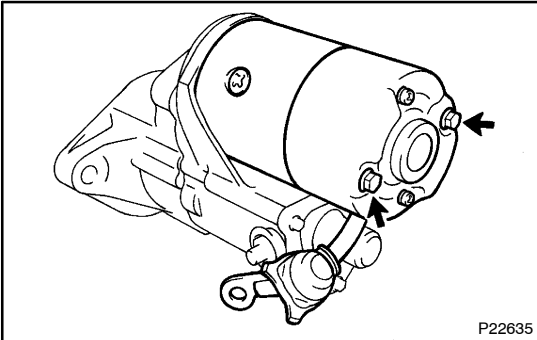
## DISASSEMBLY

### 1. REMOVE 2 DUST PROTECTORS

### 2. REMOVE FIELD FRAME AND ARMATURE

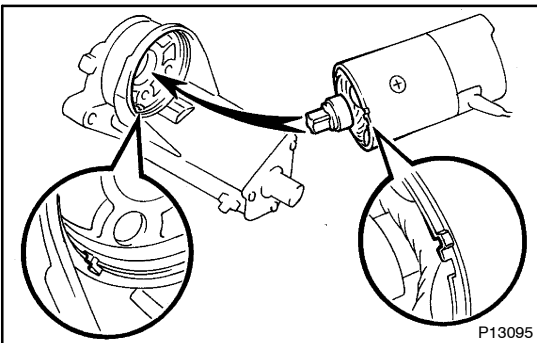
- (a) Remove the nut, and disconnect lead wire from the magnetic switch terminal.

**Torque: 24.0 N·m (245 kgf·cm, 18 ft·lbf)**



- (b) Remove the 2 through bolts.

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

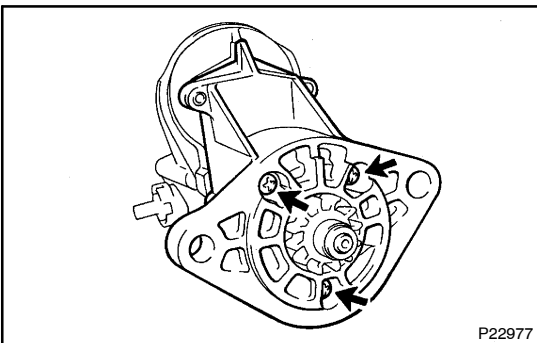


- (c) Pull out the field frame together with the armature from the magnetic switch assembly.

### 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.**

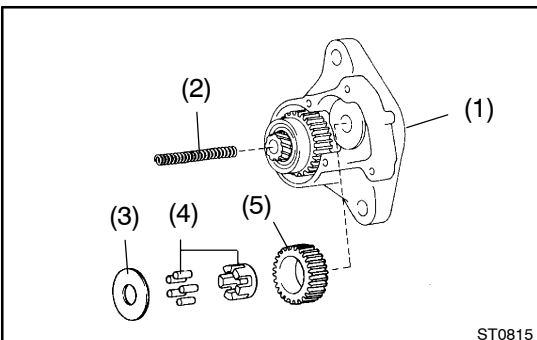
- (d) Remove the felt washer from the rear bearing.



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

- (a) Remove the 3 screws.

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



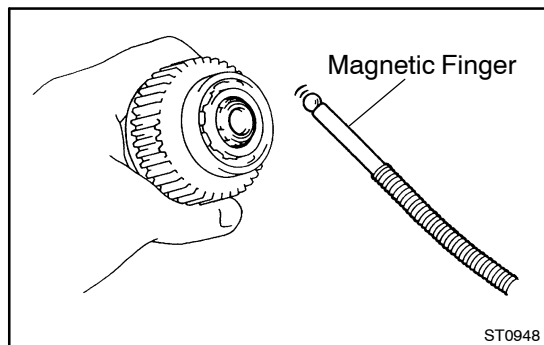
- (b) Remove these parts from the magnetic switch assembly:

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

### 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.

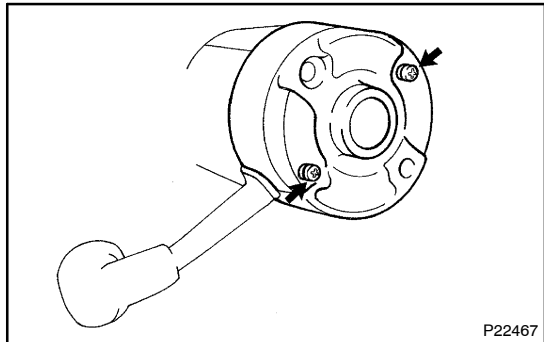


#### 4. REMOVE STEEL BALL

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

##### HINT:

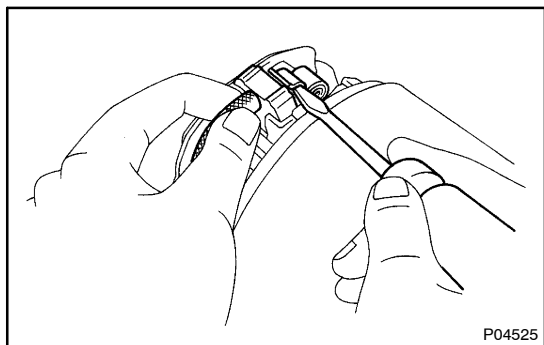
At the time of assembly, please refer to the following items.  
Apply grease to the steel ball and insert the steel ball into the clutch shaft hole.



#### 5. REMOVE BRUSH HOLDER

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

**Torque: 3.6 N·m (37 kgf·cm, 32 in.·lbf)**



- (b) Using a screwdriver, hold the spring tank back and disconnect the brush from the brush holder.

- (c) 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