

S04259

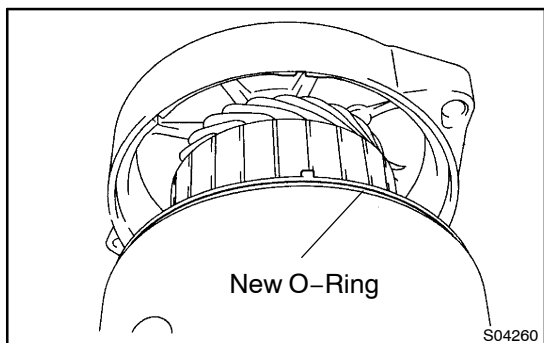
REASSEMBLY

HINT:

Use high-temperature grease to lubricate the bearings and gears when assembling the starter.

1. PLACE ARMATURE INTO END FRAME

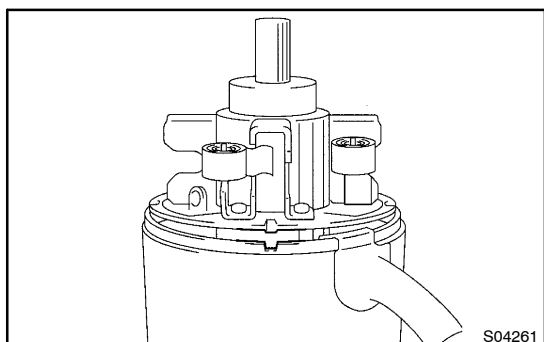
- (a) Apply grease to the armature bearings.
- (b) Using a press, press the armature into the end frame.



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2. INSTALL ARMATURE WITH END FRAME TO FIELD FRAME

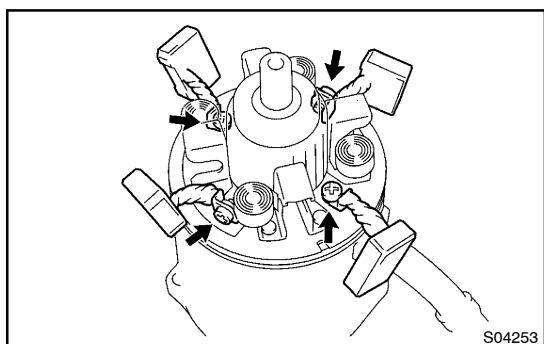
- (a) Place a new O-ring in position on the field frame.
- (b) Align the claw of the field frame with the groove of the end frame, install the armature end frame.



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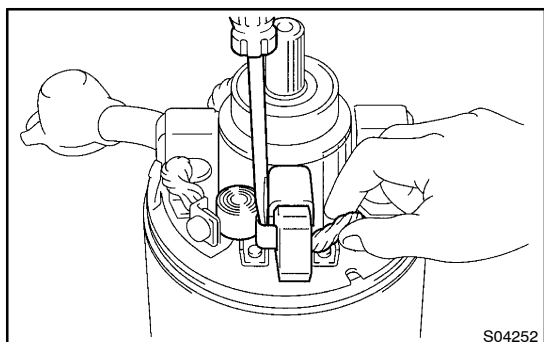
3. INSTALL BRUSH HOLDER

- (a) Align the claw of the brush holder with the claw groove of the field frame.
- (b) Place the brush holder on the field frame.



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- (c) Install the 4 brushes with the 4 screws.
Torque: 3.6 N·m (37 kgf·cm, 32 in·lbf)

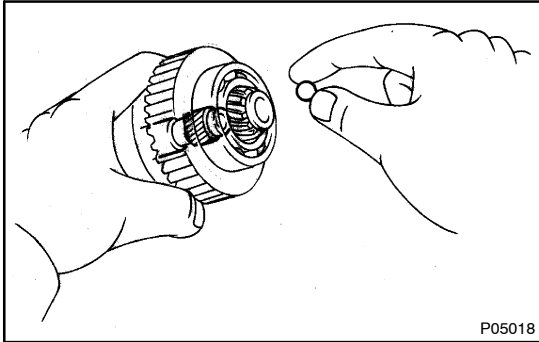


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- (d) Using a screwdriver, hold the brush spring back, and connect the brush into the brush holder. Connect the 4 brushes.

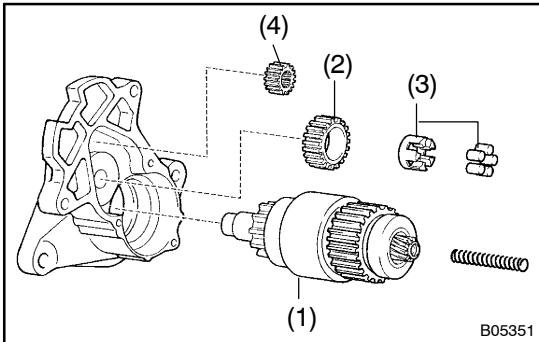
NOTICE:

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



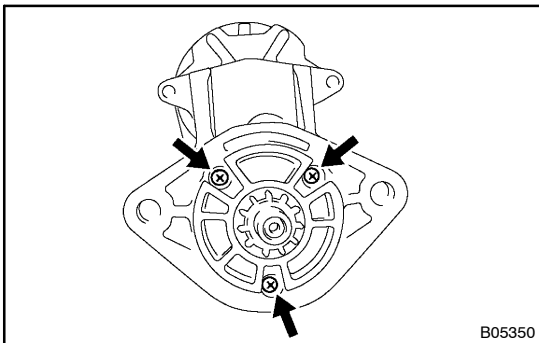
4. INSERT STEEL BALL INTO CLUTCH SHAFT HOLE

- (a) Apply grease to the steel ball.
- (b) Insert the steel ball into the clutch shaft hole.



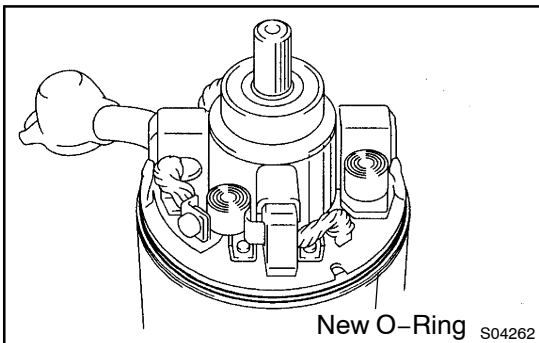
5. INSTALL STARTER HOUSING, CLUTCH ASSEMBLY AND GEARS

- (a) Apply grease to the return spring.
- (b) Insert the return spring into the magnetic switch hole.
- (c) Place these parts in position on the starter housing:
 - (1) Clutch assembly
 - (2) Idler gear
 - (3) Bearing
 - (4) Pinion gear



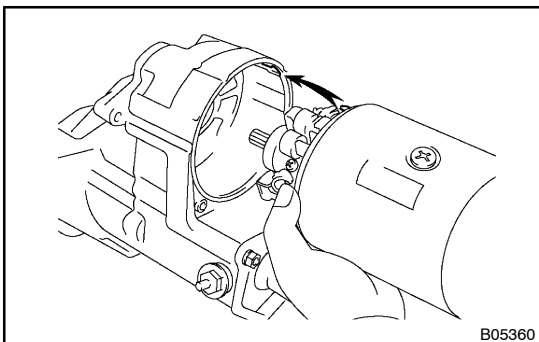
- (d) Assemble the starter housing and magnetic switch assembly and install the 3 screws.

Torque: 11.3 N·m (115 kgf·cm, 8.3 ft·lbf)

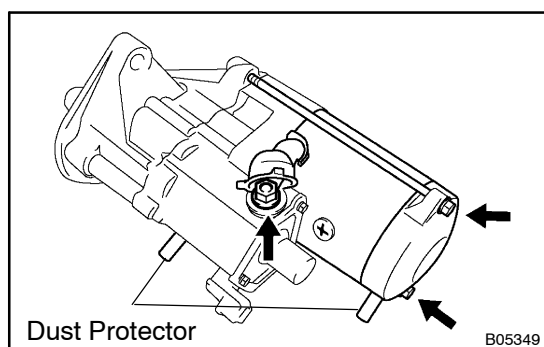


6. INSTALL FIELD FRAME AND ARMATURE ASSEMBLY

- (a) Place a new O-ring in position on the field frame.



- (b) Align the claw of the brush holder with the groove of the magnetic switch, and install the field frame and armature shaft assembly.



- (c) Install the field frame and armature assembly with the 2 through bolts.

Torque: 14.2 N·m (145 kgf·cm, 10 ft·lbf)

- (d) Connect the lead wire to terminal C, and install the nut.

Torque: 24 N·m (245 kgf·cm, 18 ft·lbf)

- (e) Install the 2 dust protectors.