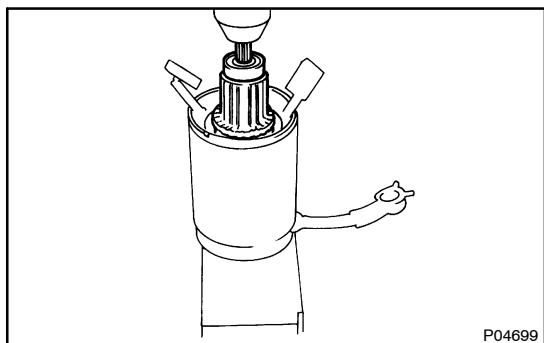




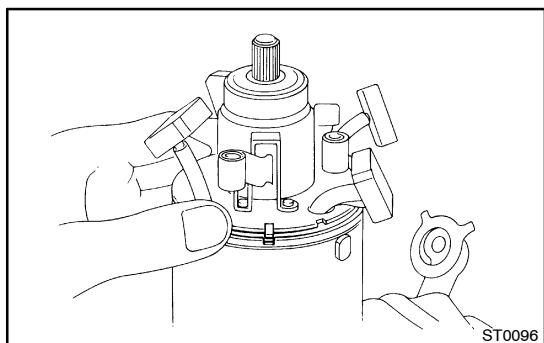
REASSEMBLY

HINT:

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

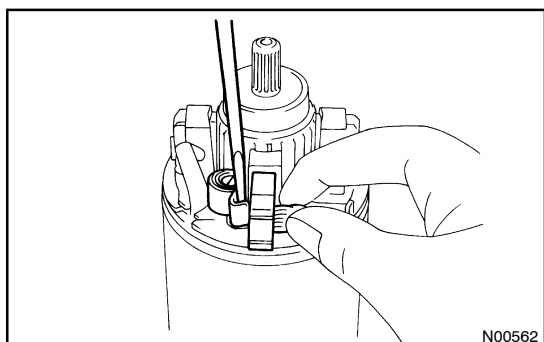
1. PLACE ARMATURE INTO FIELD FRAME

- (a) Apply grease to the armature bearings.
- (b) Using a press, press in armature.



2. 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.

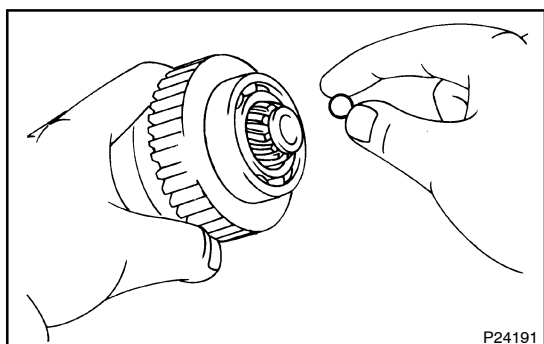


- (c) Using a screwdriver, hold the brush spring back, and connect the brush into the brush holder. Connect the 4 brushes.

NOTICE:

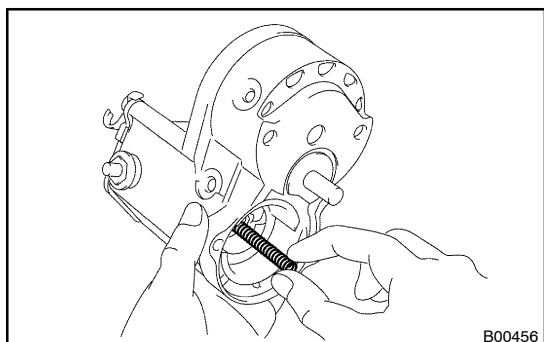
Check that the positive (+) lead wires are not grounded.

- (d) Install a new O-ring to the groove of the field frame.



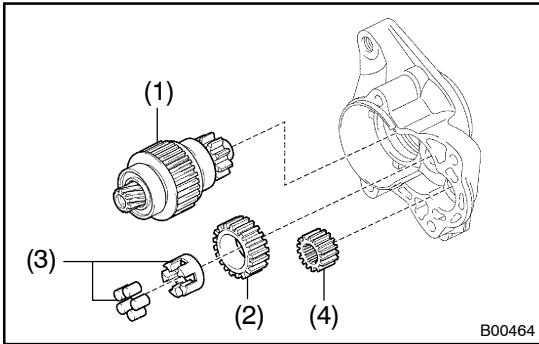
3. INSERT STEEL BALL INTO CLUTCH SHAFT HOLE

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

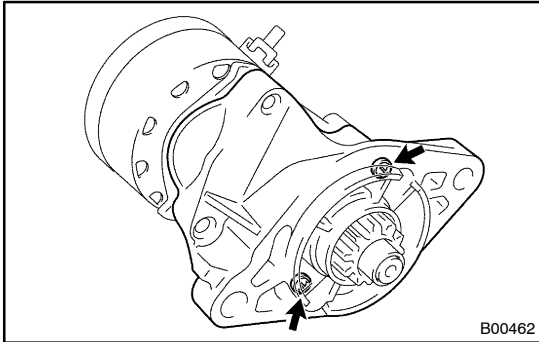


4. INSTALL STARTER HOUSING, CLUTCH ASSEMBLY AND GEARS

- (a) Apply grease to the return spring.
- (b) Insert the return spring into the magnetic switch hole.

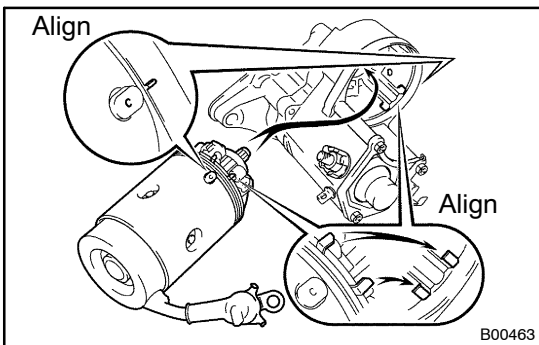


- (c) Place the starter clutch (1), idler gear (2), bearing (3) and pinion gear (4).



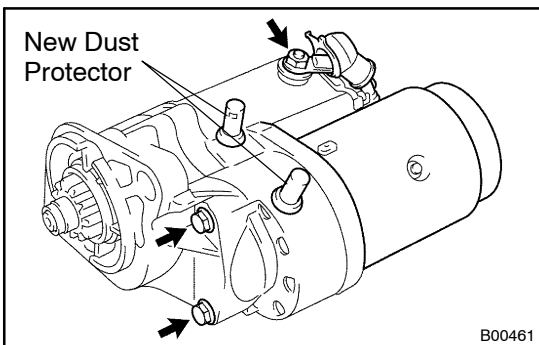
- (d) Install the starter housing to the magnetic switch with the 2 screws.

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



5. INSTALL FIELD FRAME AND ARMATURE ASSEMBLY

- (a) Install a new O-ring to the groove of the filed frame.
 (b) Align the claws of the brush holder with the grooves of the magnetic switch, and install the field frame and armature shaft assembly.
 (c) Align the punch mark of the field frame with the line of the magnet switch.



- (d) Install a new O-ring to the through bolt.
 (e) Install the field frame and armature assembly with the 2 through bolts.

Torque: 12.7 N·m (130 kgf·cm, 9 ft·lbf)

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

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

6. INSTALL DUST PROTECTORS

Install 2 new dust protectors.

7. INSTALL LEAD WIRE

Install the lead wire with the screw.

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