

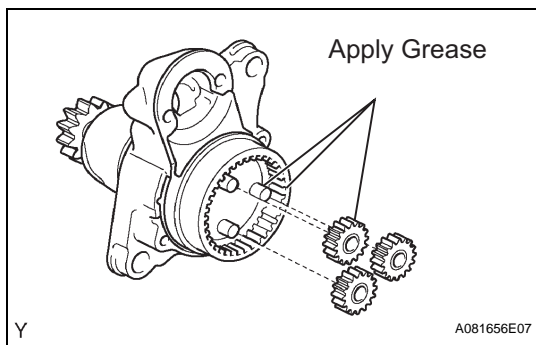
REASSEMBLY

HINT:

Use high-temperature grease to lubricate the bearings, gears, return spring and steel ball when assembling the starter.

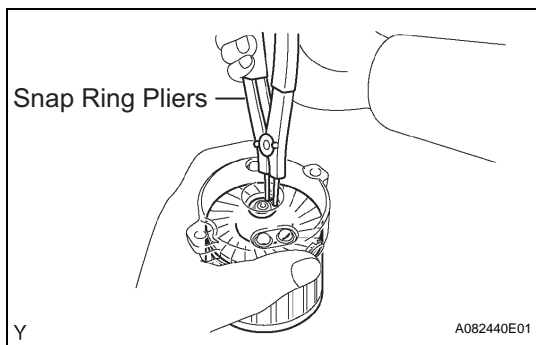
1. INSTALL PLANETARY GEAR

- (a) Apply grease to the planetary gears and pin parts of the planetary shaft.
- (b) Install the 3 planetary gears.



2. INSTALL STARTER ARMATURE ASSEMBLY

- (a) Apply grease to the plate washers and the armature shaft.
- (b) Install the starter armature assembly to the starter commutator end frame assembly.
- (c) Using snap ring pliers, install the plate washer and a new snap ring.

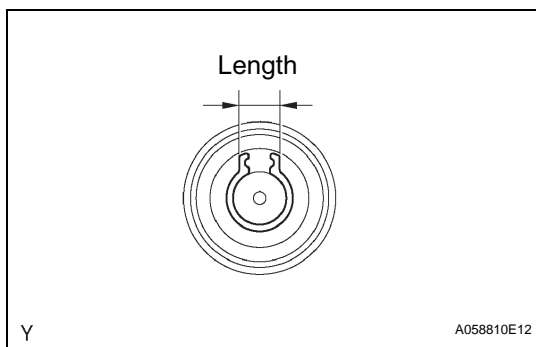


- (d) Using a vernier caliper, measure the length of the snap ring.

Maximum length:

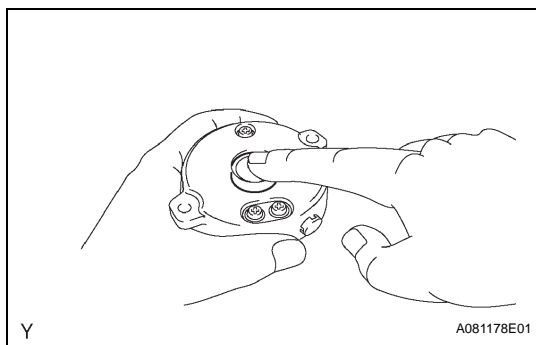
5.0 mm (0.197 in.)

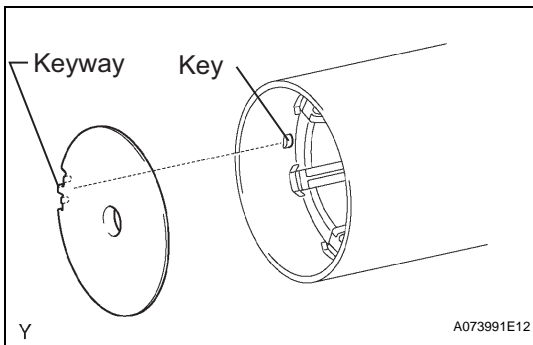
If the length is greater than the maximum, replace it with a new snap ring.



3. INSTALL STARTER COMMUTATOR END FRAME COVER

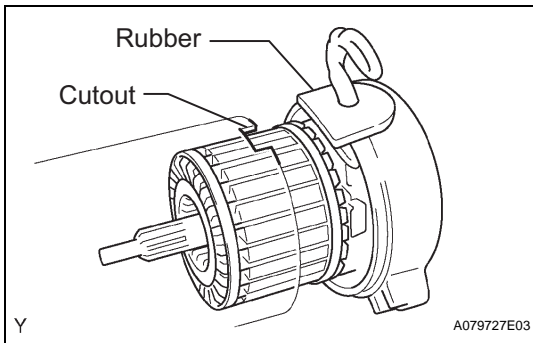
- (a) Install the starter commutator end frame cover to the starter commutator end frame assembly.





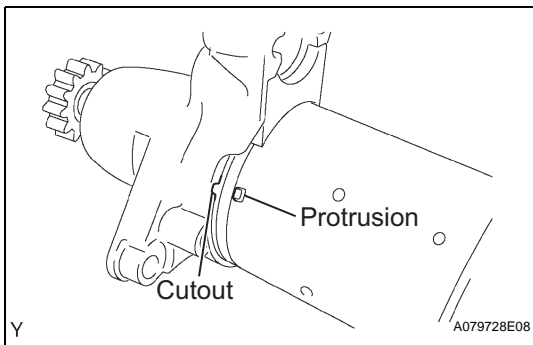
4. INSTALL STARTER ARMATURE PLATE

- (a) Insert the starter armature plate to the starter yoke assembly.
- (1) Align the keyway of the starter armature plate with the key inside the starter yoke assembly, and install the starter armature plate.



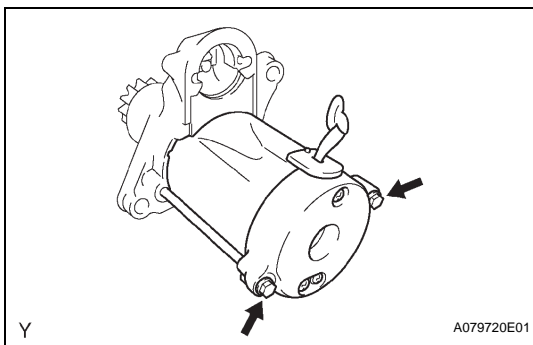
5. INSTALL STARTER COMMUTATOR END FRAME ASSEMBLY

- (a) Align the rubber of the starter end frame assembly with the cutout of the starter yoke assembly.
- (b) Install the starter commutator end frame assembly to the starter yoke assembly.



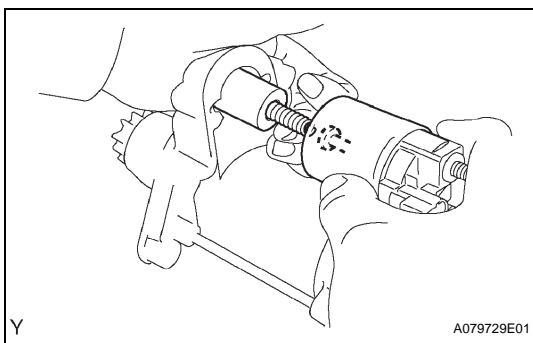
6. INSTALL STARTER YOKE ASSEMBLY

- (a) Align the protrusion of the starter yoke assembly with the cutout of the starter drive housing assembly.



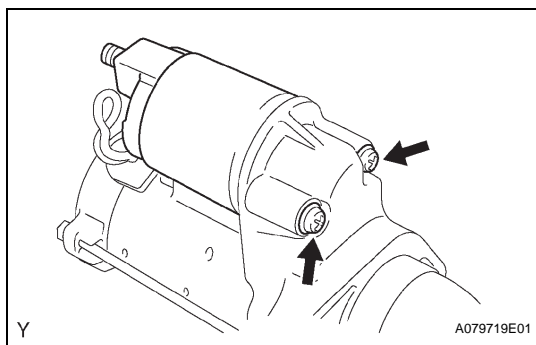
- (b) Install the starter yoke assembly with the 2 through-bolts.

Torque: 6.0 N*m (61 kgf*cm, 53 in.*lbf)

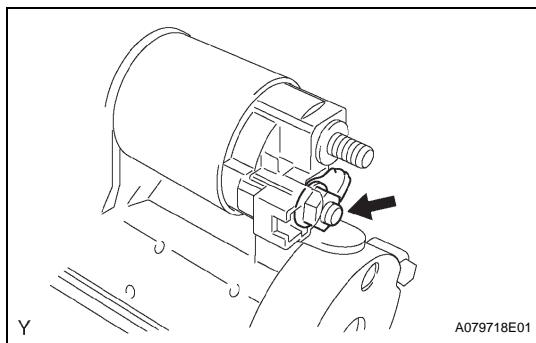


7. INSTALL MAGNETIC SWITCH ASSEMBLY

- (a) Apply grease to the plunger and the hook.
- (b) Hang the plunger hook of the magnetic switch assembly on the drive lever.
- (c) Install the plunger and return spring.



- (d) Install the magnetic switch with the 2 screws.
Torque: 7.5 N*m (76 kgf*cm, 66 in.*lbf)

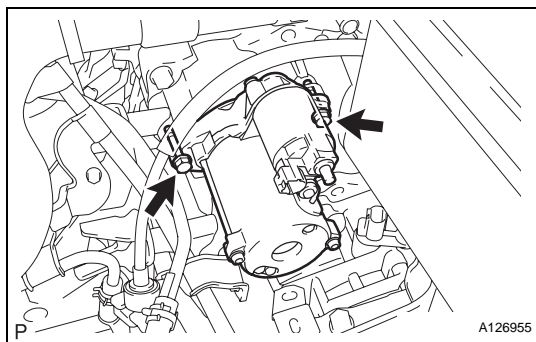


- (e) Connect the lead wire to the magnetic switch with the nut.
Torque: 10 N*m (102 kgf*cm, 7 ft.*lbf)

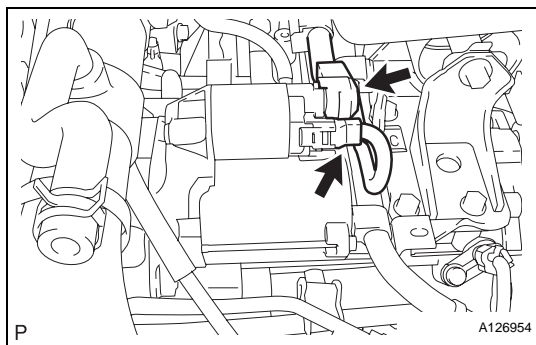
INSTALLATION

1. INSTALL STARTER ASSEMBLY

- (a) Install the starter with the 2 bolts.
Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

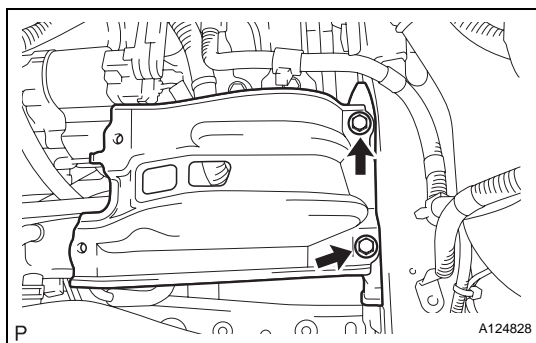


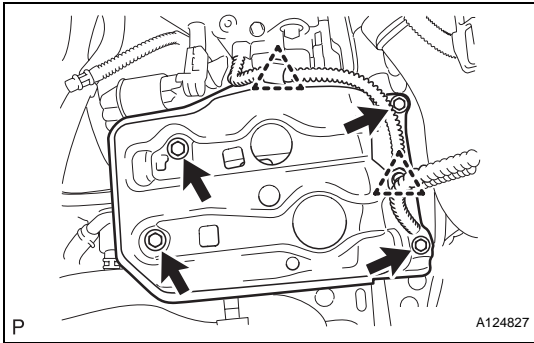
- (b) Connect the starter connector.
 (c) Install the terminal nut and cover the nut with the cap.
Torque: 9.8 N*m (100 kgf*cm, 88 in.*lbf)



2. INSTALL BATTERY BRACKET REINFORCEMENT

- (a) Install the battery bracket reinforcement with the 2 bolts.
Torque: 20 N*m (204 kgf*cm, 15 ft.*lbf)





3. **INSTALL FRONT BATTERY CARRIER**
 - (a) Install the front battery carrier with the 4 bolts.
Torque: 20 N*m (204 kgf*cm, 15 ft.*lbf)
 - (b) Connect the 2 clamps of the engine wire.
4. **INSTALL BATTERY TRAY**
5. **INSTALL BATTERY**
6. **INSTALL BATTERY INSULATOR**
7. **INSTALL BATTERY CLAMP SUB-ASSEMBLY**
 - (a) Install the battery clamp by tightening the bolt and nut.
Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf) for nut
8.5 N*m (87 kgf*cm, 75 in.*lbf) for bolt
8. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**