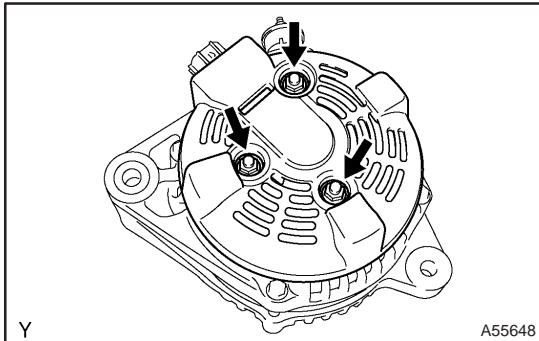
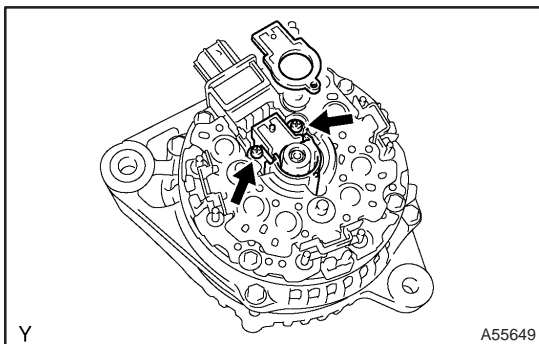


# OVERHAUL

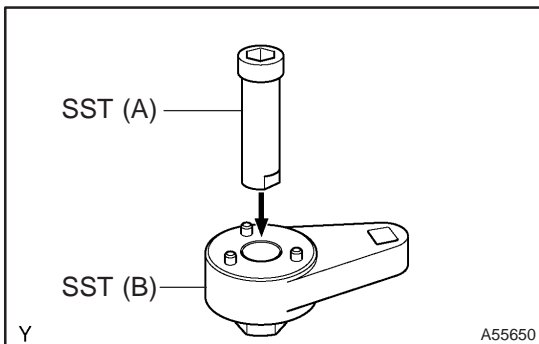


## 1. REMOVE GENERATOR BRUSH HOLDER ASSY

- (a) Remove the 3 nuts and rear end cover.
- (b) Remove the B terminal insulator.

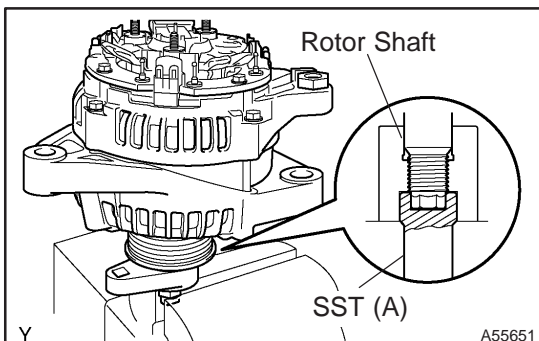


- (c) Remove the rear plate seal from the brush holder.
- (d) Remove the 2 screws and brush holder.
- (e) Remove the front seal plate from the rear frame.



## 2. REMOVE GENERATOR W/CLUTCH PULLEY

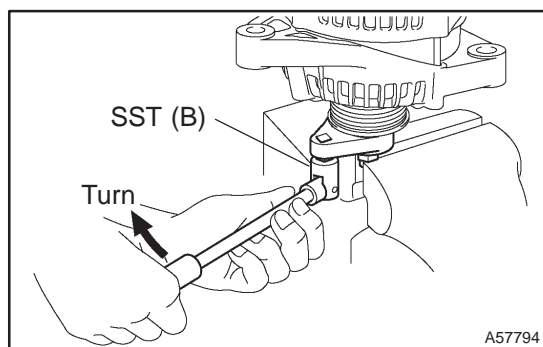
- (a) Set SST (A) and (B).  
SST 09820-63020



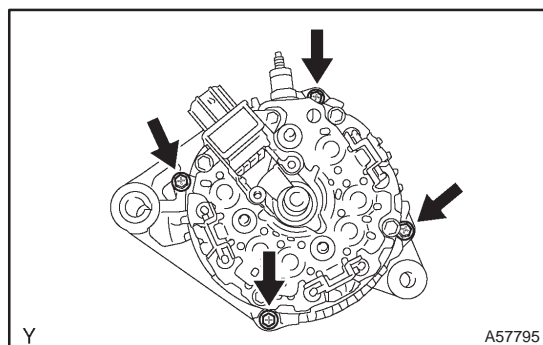
- (b) Mount SST (A) in a vise.
- (c) Set the alternator to SST.

### NOTICE:

**At this time, make sure that the alternator and SST are perpendicular to one another.**

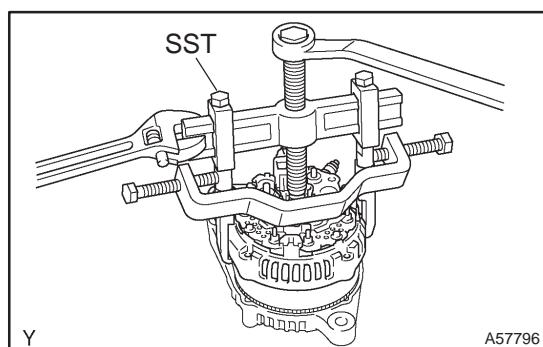


- (d) Insert the 3 tabs of SST (B) into the 3 holes on the pulley.
- (e) To loosen the pulley, turn SST (B) in the direction shown in the illustration.
- (f) Remove the alternator from SST.
- (g) Remove the pulley from the rotor shaft.

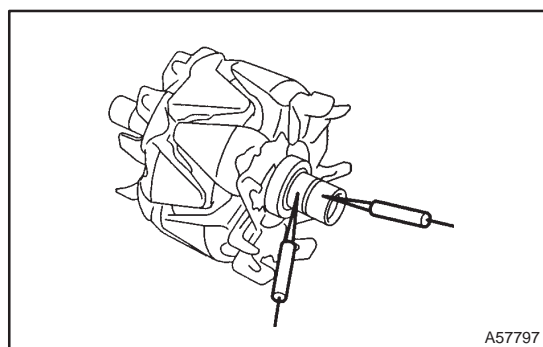


### 3. REMOVE GENERATOR ROTOR ASSY

- (a) Remove the 4 through bolts.

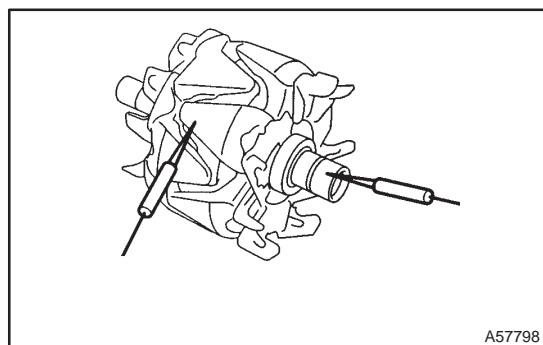


- (b) Using SST, remove the coil assembly.  
SST 09950-40011 (09951-04020, 09952-04010, 09953-04020, 09954-04010, 09955-04071, 09958-04011)
- (c) Remove the alternator washer.
- (d) Remove the rotor from the drive end frame.

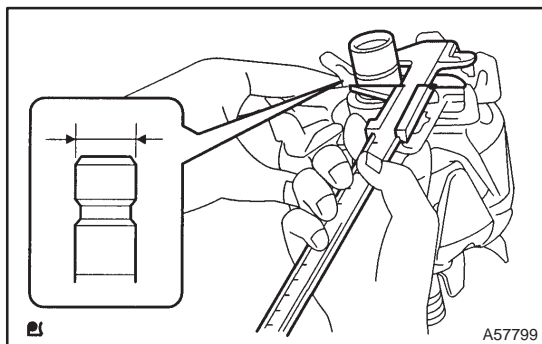


### 4. INSPECT GENERATOR ROTOR ASSY

- (a) Using an ohmmeter, check that there is continuity between the slip rings.  
**Standard resistance: 2.3 – 2.7  $\Omega$  at 20°C (68°F)**



- (b) Using an ohmmeter, check that there is no continuity between the slip ring and rotor.

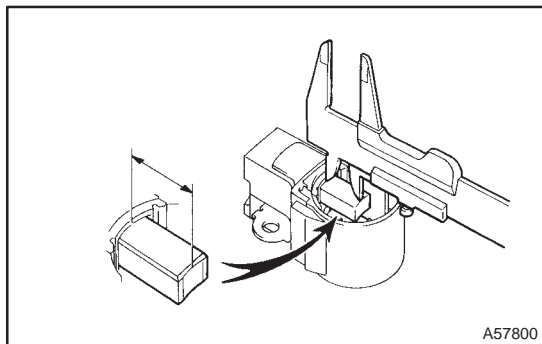


- (c) Check that the slip rings are not rough or scored.
- (d) Using vernier calipers, measure the slip ring diameter.

**Standard diameter:**

**14.2 – 14.4 mm (0.5591 – 0.5669 in.)**

**Minimum diameter: 14.0 mm (0.551 in.)**



## 5. INSPECT GENERATOR BRUSH HOLDER ASSY

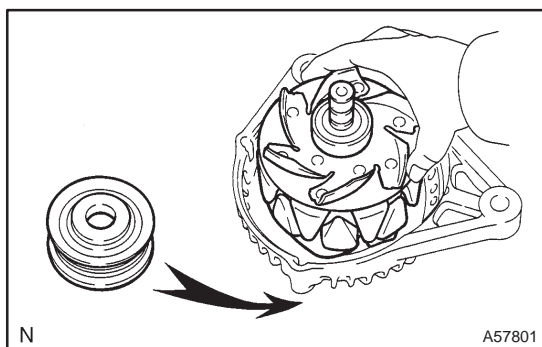
- (a) Using vernier calipers, measure the exposed brush length.

**Standard exposed length: 10.5 mm (0.4134 in.)**

**Minimum exposed length: 4.5 mm (0.177 in.)**

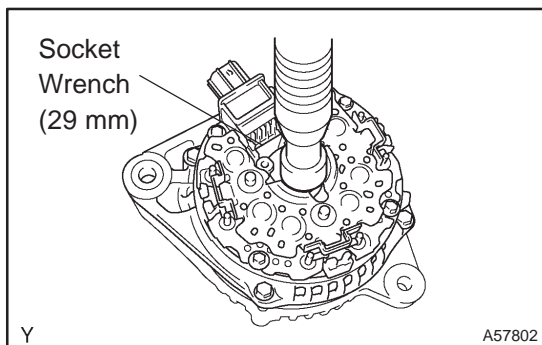
**HINT:**

If the exposed length is less than minimum, replace the brush holder.

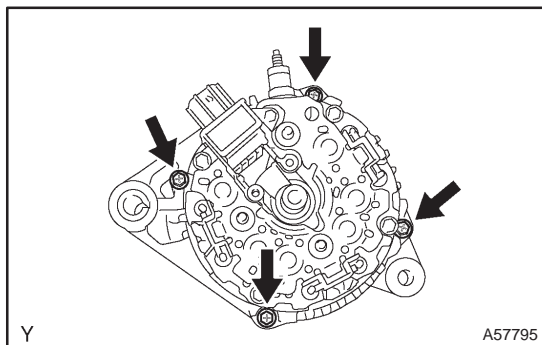


## 6. INSTALL GENERATOR ROTOR ASSY

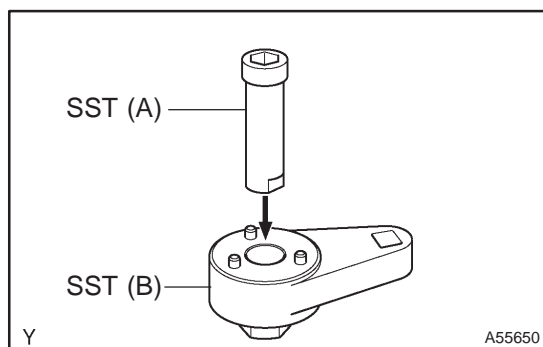
- (a) Place the drive end frame.
- (b) Install the rotor to the drive end frame.
- (c) Place the alternator washer on the rear bearing.



- (d) Using a socket wrench (29 mm) and press, slowly press in the coil assembly.

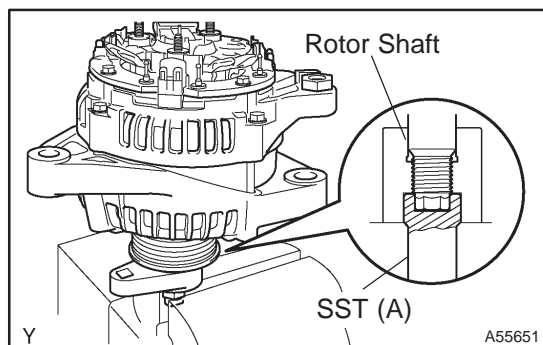


- (e) Install the 4 through bolts.  
**Torque: 5.8 N·m (59 kgf·cm, 51 in·lbf)**



## 7. INSTALL GENERATOR W/CLUTCH PULLEY

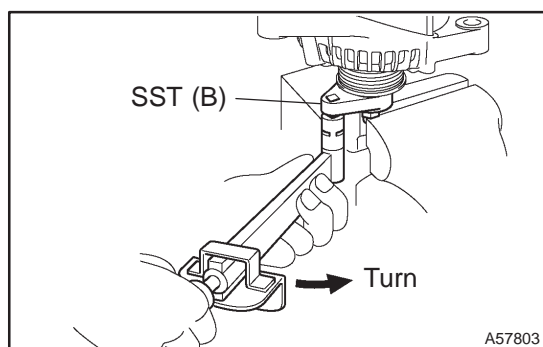
- (a) Temporarily install the pulley to the rotor shaft.
- (b) Set SST (A) and (B).  
SST 09820-63020



- (c) Mount SST (A) in a vise.
- (d) Set the alternator to SST.

### NOTICE:

At this time, make sure that the alternator and SST are perpendicular to one another.



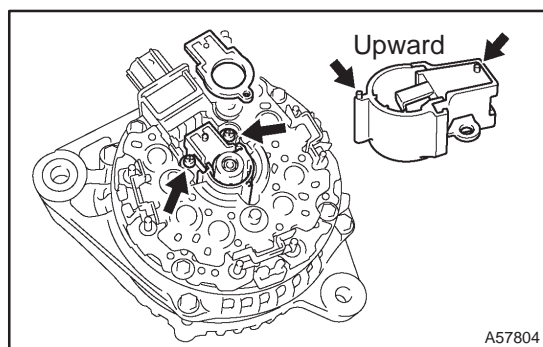
- (e) Insert the 3 tabs of SST (B) into the 3 holes on the pulley.
- (f) To torque the pulley, turn SST (B) in the direction shown in the illustration.

**Torque: 111 N·m (1132 kgf·cm, 82 ft·lbf) for using SST**

### HINT:

Use a torque wrench with a fulcrum length of 50 cm (19.69 in.).

- (g) Remove the alternator from SST.
- (h) Install a new alternator pulley cap.



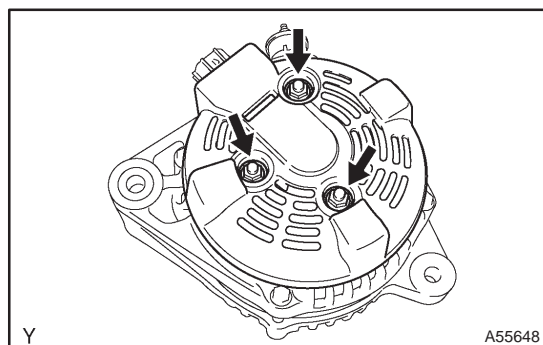
## 8. INSTALL GENERATOR BRUSH HOLDER ASSY

- (a) Place the front seal plate to the coil assembly.
- (b) Install the brush holder with the 2 screws.  
**Torque: 1.8 N·m (18 kgf·cm, 16 in·lbf)**

### NOTICE:

Be careful of the holder installation direction.

- (c) Place the plate seal on the brush holder.



- (d) Install the rear end cover with the 3 nuts.  
**Torque: 4.6 N·m (47 kgf·cm, 41 in·lbf)**