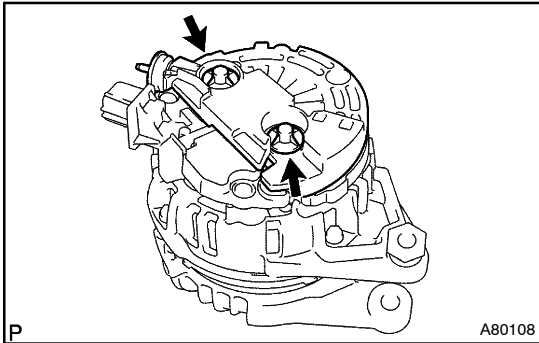
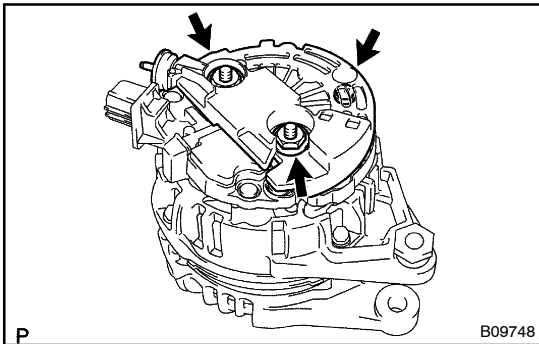


OVERHAUL

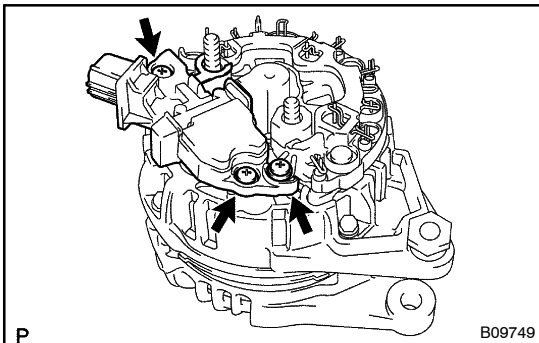


1. REMOVE GENERATOR REAR END COVER

- (a) Remove the 2 terminal covers by turning them counter-clockwise.

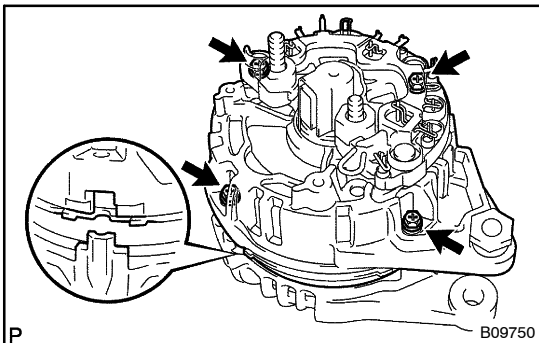


- (b) Remove the screw, 2 nuts and end cover.



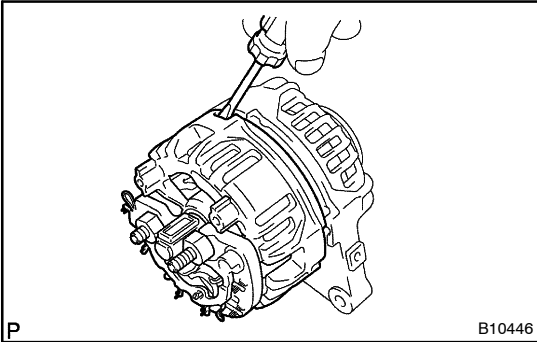
2. REMOVE REGULATOR SUB-ASSY GENERATOR W/BRUSH

- (a) Remove the 3 screws and regulator.

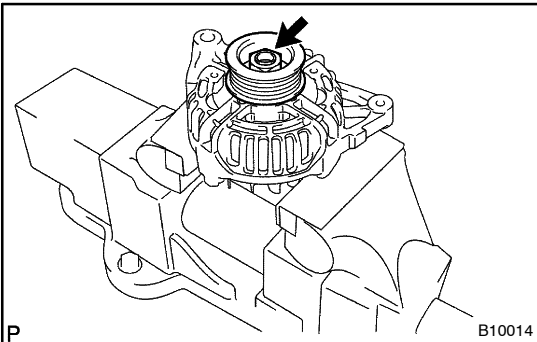


3. REMOVE STATOR SUB-ASSY GENERATOR W/RECTIFIER

- (a) Remove the 4 bolts.



- (b) Using a screwdriver, pry out the stator.
- 4. REMOVE BEARING SET GENERATOR**



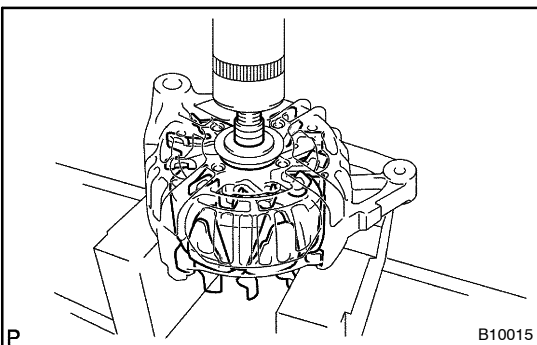
5. REMOVE PULLEY SET GENERATOR

- (a) Clamp the swivel arm in a vise.

NOTICE:

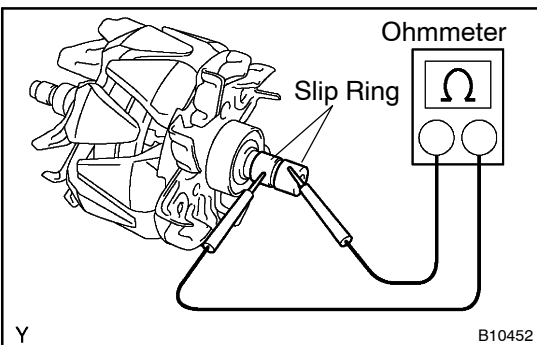
Be careful not to damage the fan.

- (b) Using an impact wrench, remove the nut and spring washer, then detach the pulley.



6. REMOVE GENERATOR ROTOR ASSY

- (a) Using a press, press out the rotor and spacer ring.

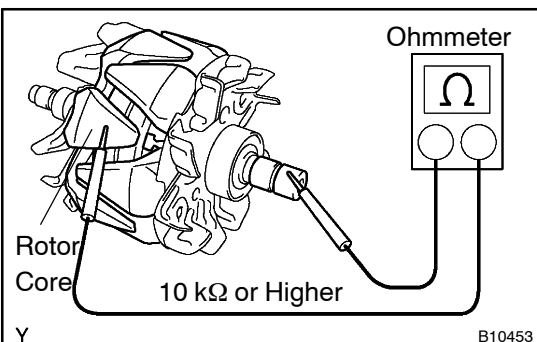


7. INSPECT GENERATOR ROTOR ASSY

- (a) Check the rotor for open circuit.
- (1) Using an ohmmeter, measure the resistance between the slip rings.

Standard resistance: 1.8 to 2.8 Ω at 20°C (68°F)

If the resistance is not as specified, replace the rotor assy.

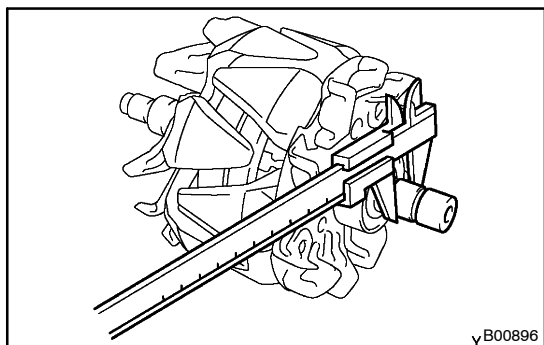


- (b) Check the rotor for ground.
- (1) Using an ohmmeter, measure the resistance between the slip ring and rotor core.

Standard: 10 k Ω or higher

If the resistance is not as specified, replace the rotor assy.

- (c) Inspect slip rings.
- (1) Check that the slip rings are not rough or scored.
- If rough or scored, replace the rotor assy.



(d) Inspect the slip rings.

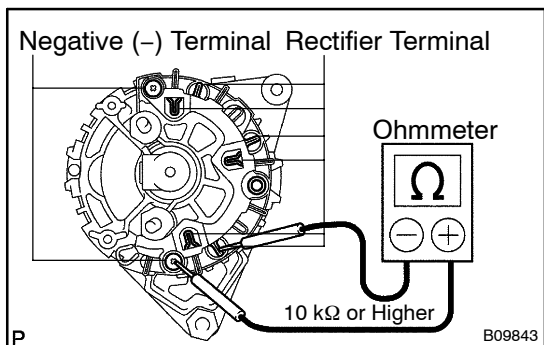
(1) Check that the slip rings are not rough or scored. If rough or scored, replace the rotor assy.

(2) Using a vernier caliper, measure the slip ring diameter.

Standard diameter: 15.3 to 15.5 mm (0.602 to 0.610 in.)

Minimum diameter: 14.3 mm (0.561 in.)

If the diameter is less than the minimum, replace the rotor assy.



8. INSPECT STATOR SUB-ASSY GENERATOR W/RECTIFIER

(a) Using an ohmmeter, measure the resistance between the generator's negative (-) terminal and rectifier terminal.

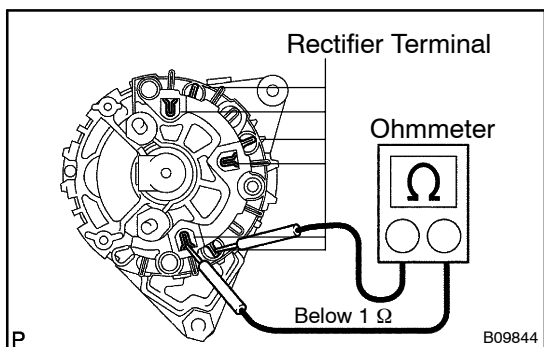
(1) Connect the ohmmeter's positive (+) probe to the generator's negative (-) terminals and the negative (-) probe to the rectifier terminals. Measure the resistance one by one.

Standard: 10 k Ω or higher

(2) Connect the ohmmeter's positive (+) probe to the rectifier terminals and the negative (-) probe to the generator's negative (-) terminals. Measure the resistance one by one.

Standard: Below 1 Ω

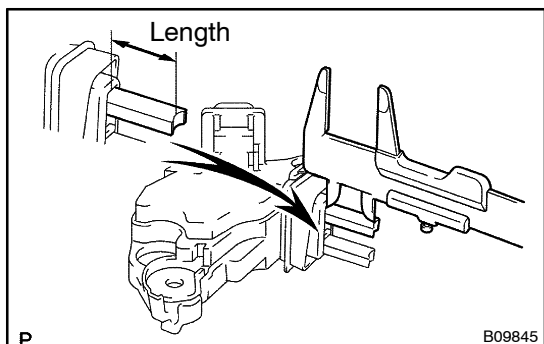
If the result is not as specified, replace the stator sub-assy generator w/ rectifier.



(b) Using an ohmmeter, measure the resistance between the rectifier terminals.

Standard: Below 1 Ω

If the result is not as specified, replace the stator sub-assy generator w/ rectifier.



9. INSPECT BRUSH

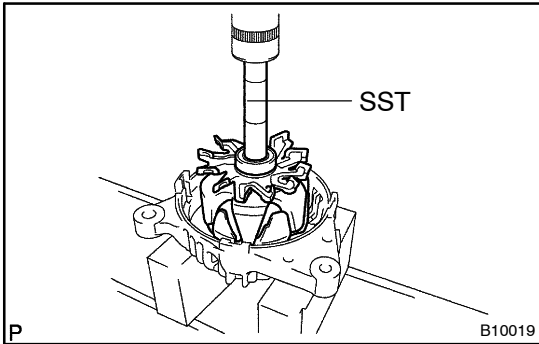
(a) Using a vernier caliper, measure the exposed brush length.

Standard exposed length:

13.2 mm (0.520 in.) in new condition

Minimum exposed length: 6.0 mm (0.236 in.)

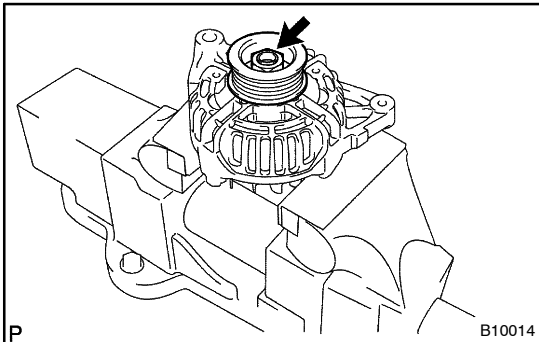
If the exposed length is less than the minimum, replace the regulator sub-assy generator w/ brush.

**10. INSTALL GENERATOR ROTOR ASSY**

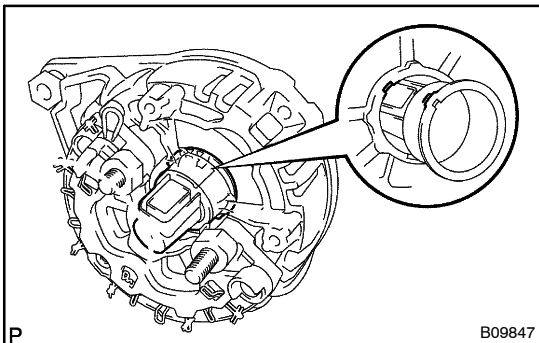
- (a) Using SST and a press, press in the rotor.
SST 09285-76010

NOTICE:

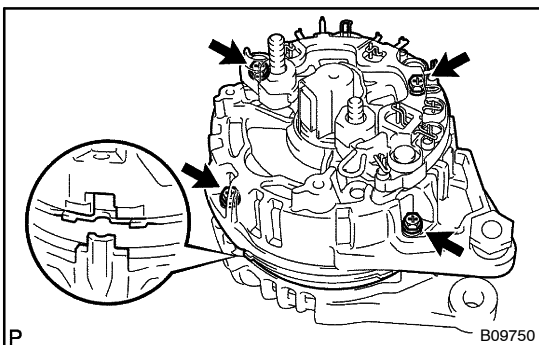
Avoid misalignment during pressing.

**11. INSTALL PULLEY SET GENERATOR**

- (a) Clamp the rotor in a soft jaw vise.
(b) Install the pulley with the spring washer and nut.
Torque: 65 N·m (663 kgf·cm, 48 ft·lbf)

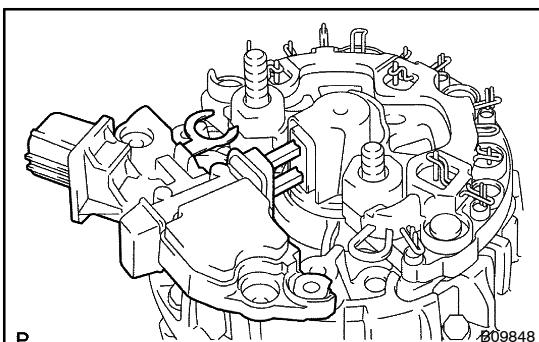
**12. INSTALL BEARING SET GENERATOR**

- (a) Insert the fitting ring into the position shown in the illustration.
(b) Align the key of the fitting ring with the keyway of the stator.
(c) Install the bearing.

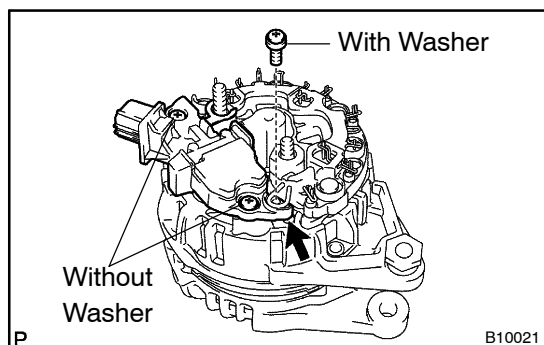
**13. INSTALL STATOR SUB-ASSY GENERATOR W/RECTIFIER**

- (a) Align the key of the drive end frame with the keyway of the stator generator.
(b) Install the stator with the 4 bolts.

Torque: 3.5 N·m (36 kgf·cm, 31 in·lbf)

**14. INSTALL REGULATOR SUB-ASSY GENERATOR W/BRUSH**

- (a) Attach the brushes and terminals to the rectifier end frame of the regulator.



- (b) Install the regulator with the 3 screws.

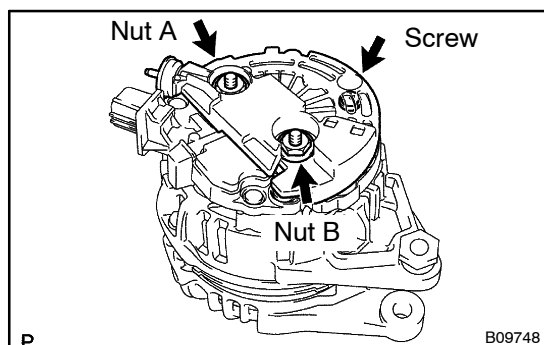
Torque:

2.2 N·m (22 kgf·cm, 19 in.·lbf) for screw without washer

1.2 N·m (12 kgf·cm, 11 in.·lbf) for screw with washer

HINT:

Install the screw with the plate washer to the position shown in the illustration.



15. INSTALL GENERATOR REAR END COVER

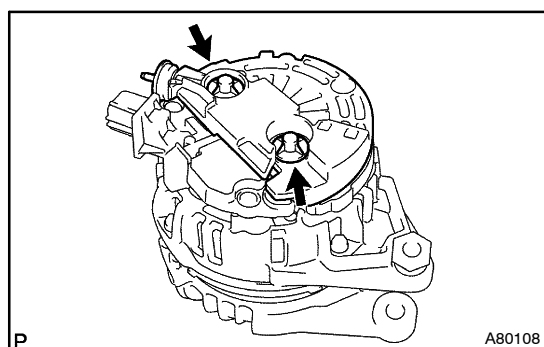
- (a) Install the end cover with the 2 nuts and screw.

Torque:

19.5 N·m (199 kgf·cm, 14 ft·lbf) for nut A

12 N·m (122 kgf·cm, 9 ft·lbf) for nut B

2.4 N·m (24 kgf·cm, 21 in.·lbf) for screw



- (b) Install the 2 terminal covers by turning them clockwise.