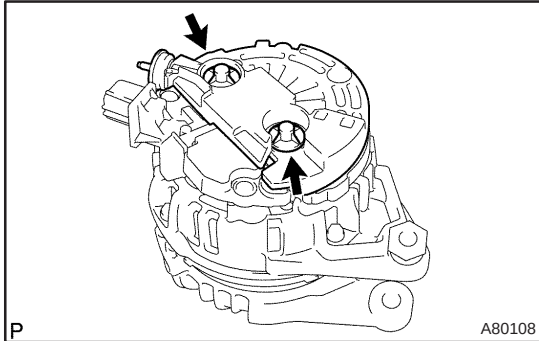
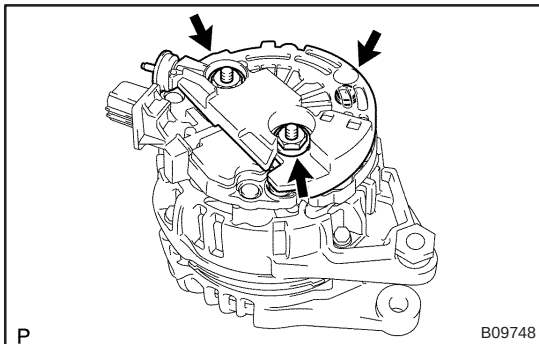


OVERHAUL

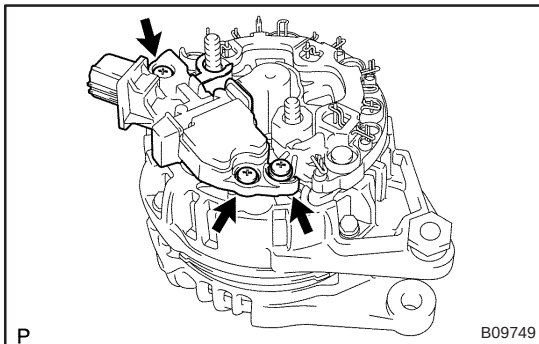
**1. REMOVE GENERATOR REAR END COVER**

1900K-01

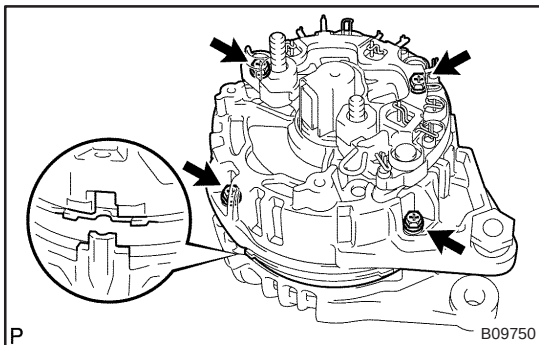
- (a) Remove the 2 terminal covers by turning them counter-clockwise.



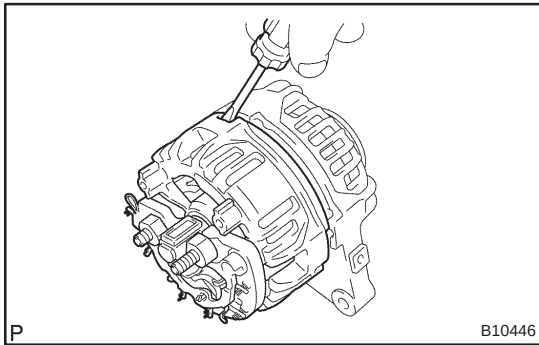
- (b) Remove the screw and 2 nuts, and then detach the generator rear end cover.

**2. REMOVE REGULATOR SUB-ASSY GENERATOR W/BRUSH**

- (a) Remove the 3 screws and the regulator sub-assy generator w/ brush.

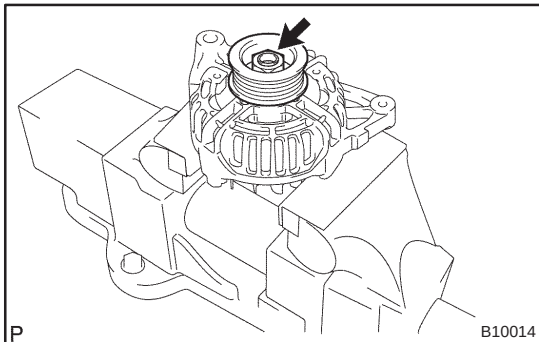
**3. REMOVE STATOR SUB-ASSY GENERATOR W/RECTIFIRE**

- (a) Remove the 4 bolts.



- (b) Using a screwdriver, pry out the stator sub-assy generator w/rectifier.

4. REMOVE BEARING SET GENERATOR



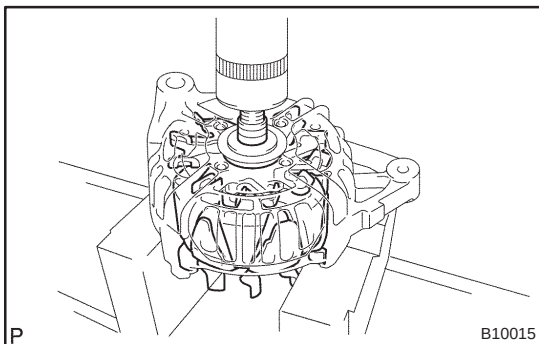
5. REMOVE PULLEY SET GENERATOR

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

NOTICE:

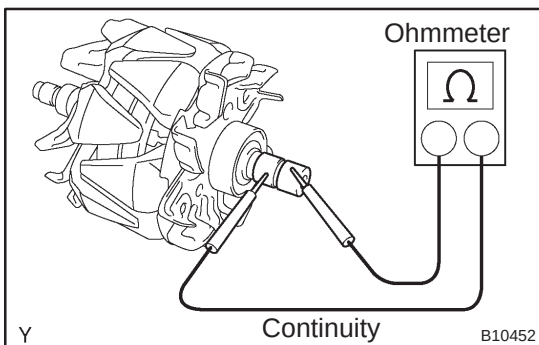
Be careful not to damage the fan.

- (b) Using an impact wrench or internal serration on rotor shaft end together with a torque wrench, remove the nut and spring washer, then detach the pulley.



6. REMOVE GENERATOR ROTOR ASSY

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

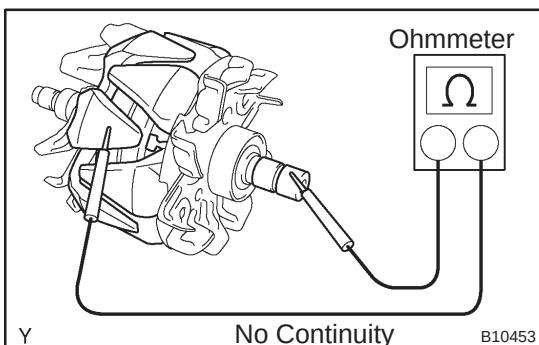


7. INSPECT GENERATOR ROTOR ASSY

- (a) Inspect the generator rotor assy for open circuit.
(1) Using an ohmmeter, check that there is continuity between the slip rings.

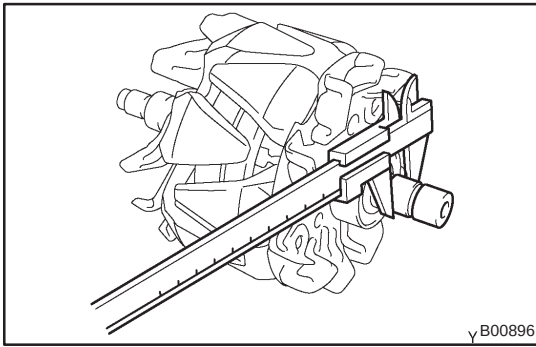
Standard resistance: 2.27 to 2.53 Ω at 20°C (68°F)

If there is no continuity, replace the generator rotor assy.



- (b) Inspect the generator rotor assy for ground.
(1) Using an ohmmeter, check that there is no continuity between the slip ring and the generator rotor assy.

If there is continuity, replace the generator rotor assy.

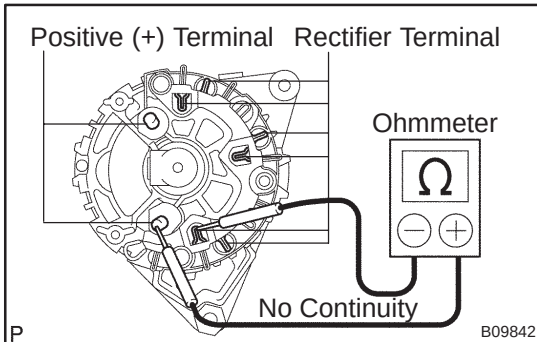


- (c) Inspect the slip rings.
- (1) Check that the slip rings are not rough or scored. If rough or scored, replace the generator rotor assy.
 - (2) Using vernier calipers, measure the slip ring diameter.

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

Minimum diameter: 14.3 mm (0.561 in.)

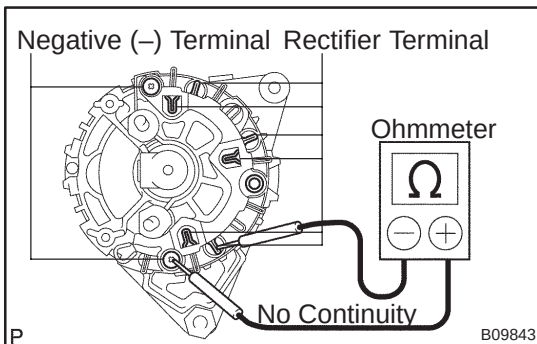
If the diameter is less than minimum, replace the generator rotor assy.



8. INSPECT STATOR SUB-ASSY GENERATOR W/RECTIFIRE

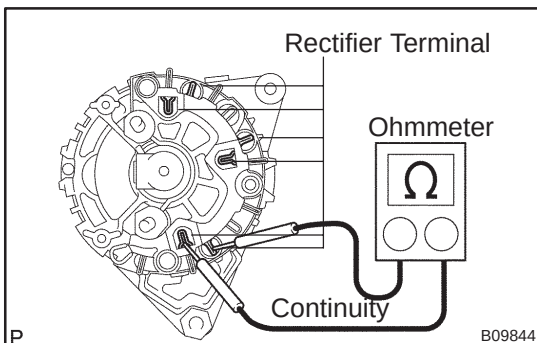
- (a) Inspect the positive (+) rectifier.
- (1) Using an ohmmeter, connect one tester probe to the positive (+) terminal and the other to each rectifier terminal.
 - (2) Reverse the polarity of the tester probes and repeat step (1).
 - (3) Check that one shows continuity and the other shows no continuity.

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



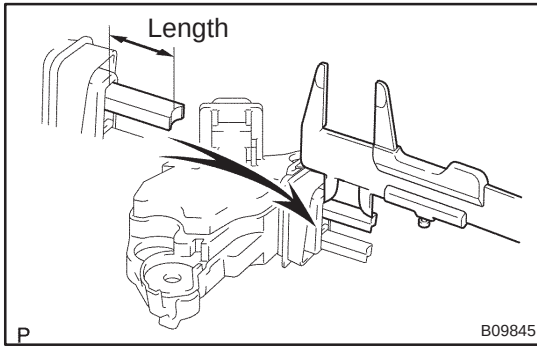
- (b) Inspect the negative (-) rectifier.
- (1) Using an ohmmeter, connect one tester probe to each negative (-) terminal and the other to each rectifier terminal.
 - (2) Reverse the polarity of the tester probes and repeat step (1).
 - (3) Check that one shows continuity and the other shows no continuity.

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



- (c) Inspect the stator for open circuit.
- Using an ohmmeter, check that there is continuity between the rectifier terminals.

If there is no continuity, replace the stator sub-assy generator w/ rectifire.

**9. INSPECT BRUSH**

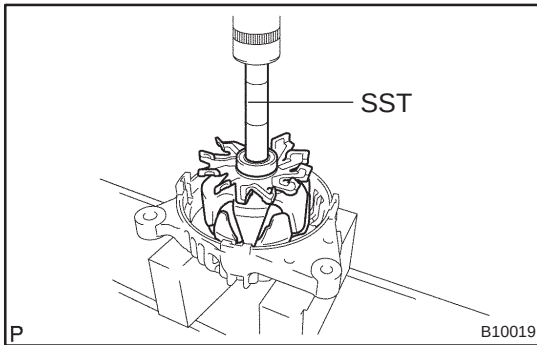
- (a) Using vernier calipers, measure the brush length.

Standard exposed length:

11.0 to 13.6 mm (0.433 to 0.535 in.)

Minimum exposed length: 1.5 mm (0.059 in.)

If the expose length is less than minimum, replace the voltage regulator and the brush assembly.

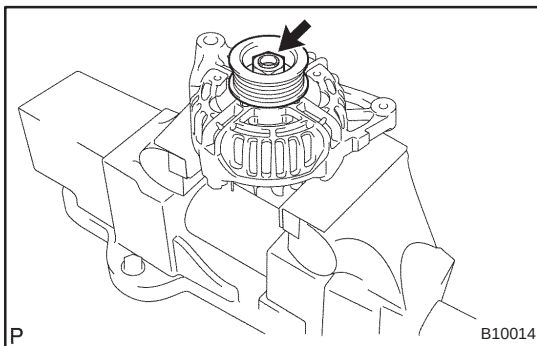
**10. INSTALL GENERATOR ROTOR ASSY**

- (a) Using SST and a press, press in the generator rotor assy.

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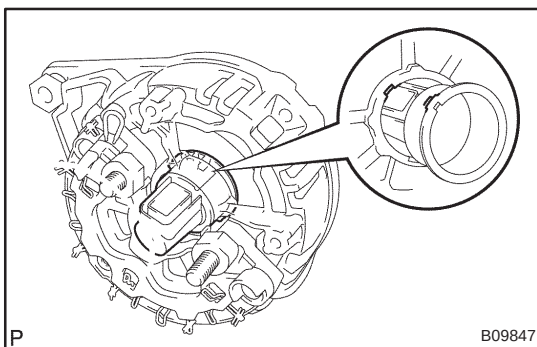
NOTICE:

Avoid misalignment during pressing

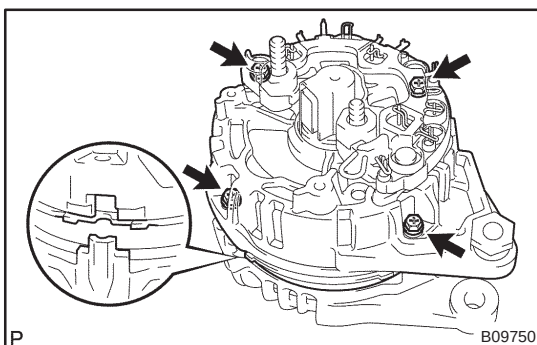
**11. INSTALL PULLEY SET GENERATOR**

- (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)

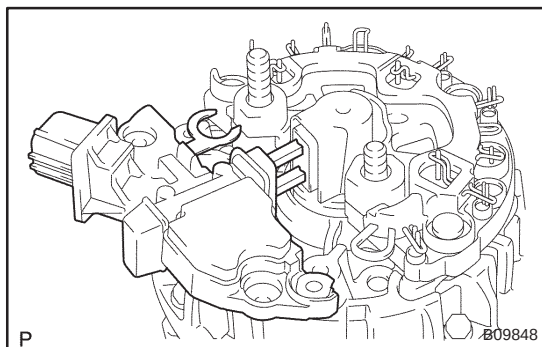
**12. INSTALL BEARING SET GENERATOR**

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

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

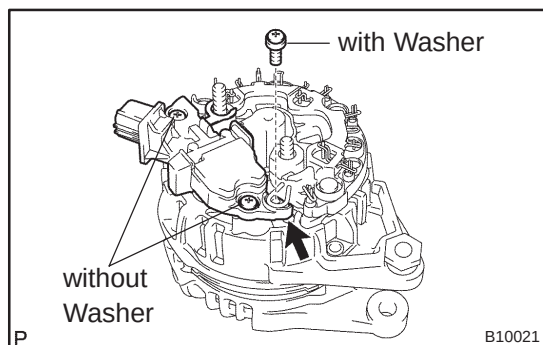
- (a) Align the key of the drive end frame with the keyway of the stator sub-assy generator w/ rectifire.
(b) Install the stator sub-assy generator w/ rectifire with the 4 bolts.

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



14. INSTALL REGULATOR SUB-ASSY GENERATOR W/BRUSH

- (a) Attach the brushes and the terminals to the rectifier end frame of the regulator sub-assy generator w/ brush.



- (b) Install the regulator sub-assy generator w/ brush with the 3 screws.

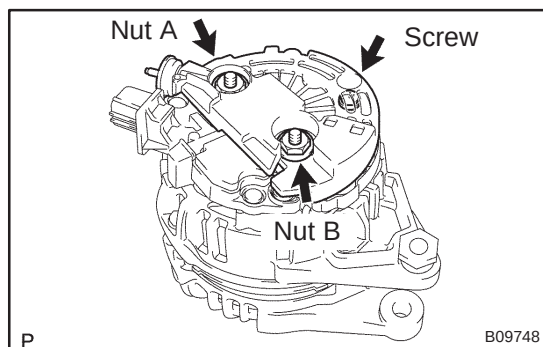
HINT:

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

Torque:

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

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



15. INSTALL GENERATOR REAR END COVER

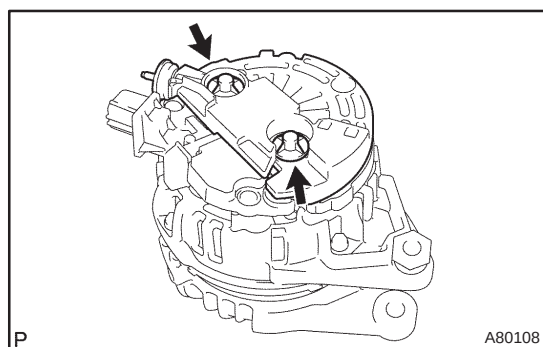
- (a) Install the generator rear end cover with the 2 nuts and the screw.

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.