

REPLACEMENT

1. REMOVE MAGNETIC SWITCH END COVER

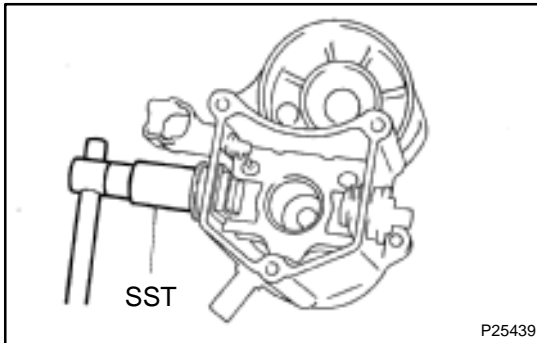
Remove the 3 bolts, lead clamp, end cover, gasket and plunger.

2. INSPECT CONTACT PLATE FOR WEAR

Using vernier calipers, measure the contact plate for depth of wear.

Maximum wear: 0.9 mm (0.035 in.)

If the depth of wear is greater than the maximum, replace the contact plate.



3. REMOVE TERMINAL KIT PARTS

(a) Using SST, loosen the terminal nuts.

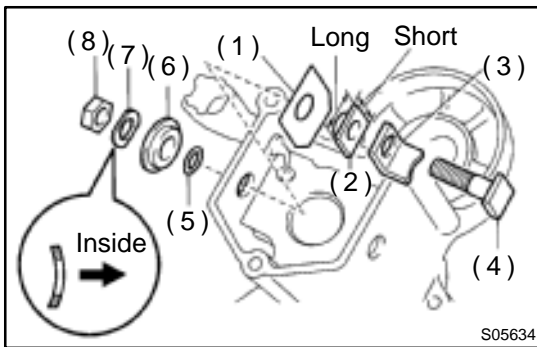
SST 09810-38140

(b) Terminal C:

Remove the terminal nut, wave washer, terminal insulator (outside), O-ring, terminal bolt, contact plate and terminal insulator (inside).

(c) Terminal 30:

Remove the terminal nut, wave washer, terminal insulator (outside), O-ring, terminal bolt, contact plate, terminal insulator (inside) and insulation paper.



4. REINSTALL TERMINAL KIT PARTS

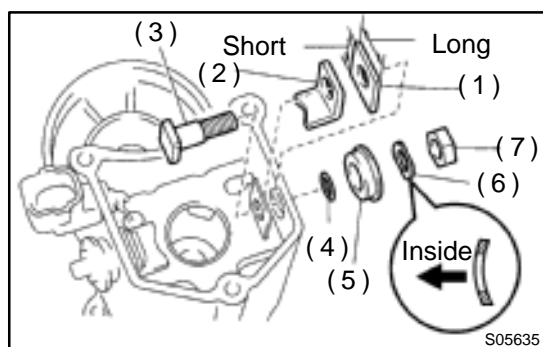
(a) Install these new parts:

Terminal 30:

- (1) Insulation paper
- (2) Terminal insulator (inside)
- (3) Contact plate
- (4) Terminal bolt
- (5) O-ring
- (6) Terminal insulator (outside)
- (7) Wave washer
- (8) Terminal nut

NOTICE:

Be careful to install the terminal insulators (inside) and wave washer in the correct direction.

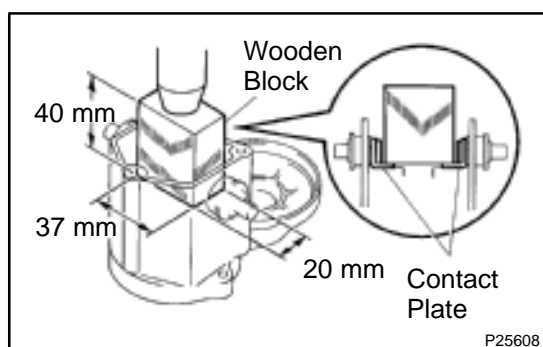
**Terminal C:**

- (1) Terminal insulator (inside)
- (2) Contact plate
- (3) Terminal bolt
- (4) O-ring
- (5) Terminal insulator (outside)
- (6) Wave washer
- (7) Terminal nut

NOTICE:

Be careful to install the terminal insulators (inside) and wave washer in the correct direction.

- (b) Temporarily tighten the terminal nuts.

**5. TIGHTEN TERMINAL NUT**

- (a) Put a wood block on the contact plate and press it down with a hand press.

Dimensions of wood block:

20 x 37 x 40 mm (0.97 x 1.46 x 1.57 in.)

Press force:

981 N (100 kgf, 221 lbf)

NOTICE:

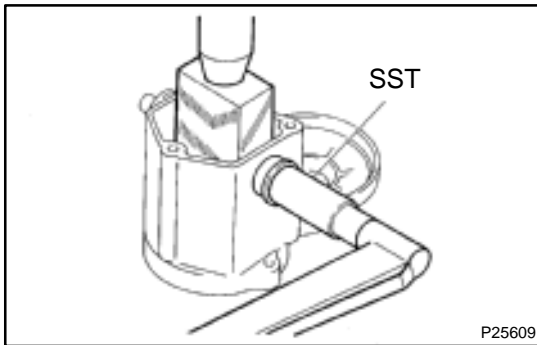
- Check the diameter of the hand press ram. Then calculate the gauge pressure of the press when 981 N (100 kgf, 221 lbf) of force is applied.

Gauge Pressure

$$\begin{aligned}
 (\text{kgf/cm}^2) &= \frac{100 \text{ kgf}}{\left(\frac{\text{Ram diameter (cm)}}{2} \right)^2 \times 3.14 (\pi)} \\
 (\text{psi}) &= \frac{221 \text{ lbf}}{\left(\frac{\text{Ram diameter (in.)}}{2} \right)^2 \times 3.14 (\pi)} \\
 (\text{kPa}) &= (\text{kgf/cm}^2) \times 98.1 \\
 (\text{kPa}) &= (\text{psi}) \times 6.9
 \end{aligned}$$

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- If the contact plate is not pressed down with the specified pressure, the contact plate may tilt due to coil deformation or the tightening of the nut.

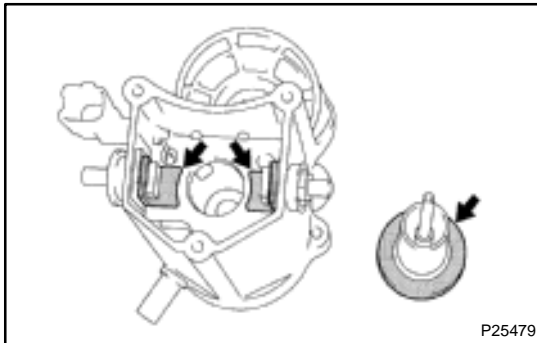


- (b) Using SST, tighten the nuts to the specified torque.
SST 09810-38140

Torque: 17 N·m (173 kgf·cm, 12 ft·lbf)

NOTICE:

If the nut is over tightened, it may cause cracks on the inside of the insulator.



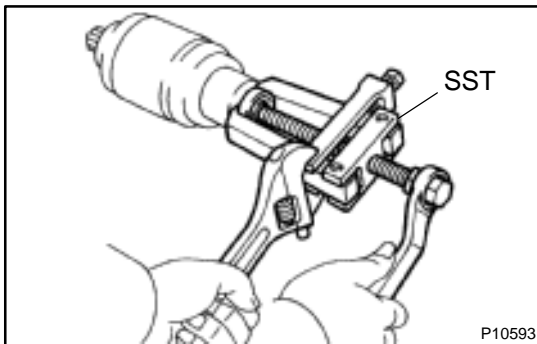
6. CLEAN CONTACT SURFACES OF CONTACT PLATE AND PLUNGER

Clean the contact surfaces of the remaining contact plate and plunger with a dry shop rag.

7. REINSTALL MAGNETIC SWITCH END COVER

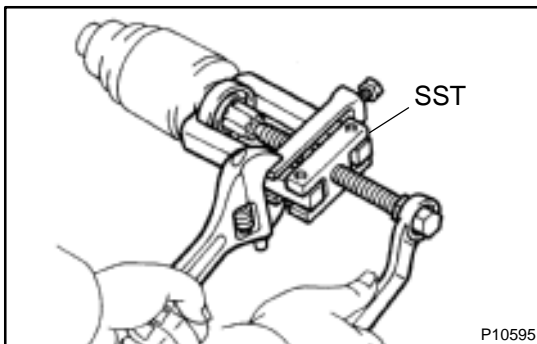
Install the plunger, new gasket, end cover and lead clamp with 3 bolts.

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



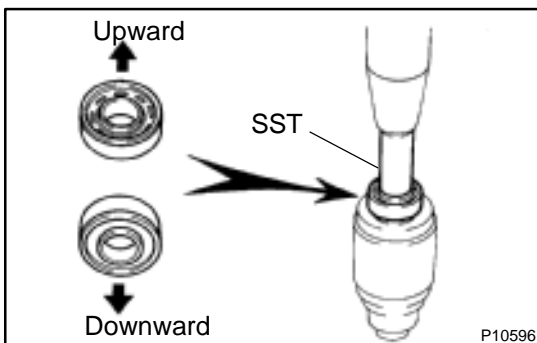
8. REPLACE REAR BEARING

- (a) Using SST, remove the bearing.
SST 09286-46011
- (b) Using a press, press in a new rear bearing.



9. REPLACE FRONT BEARING

- (a) Using SST, remove the bearing.
SST 09286-46011



- (b) Using SST and a press, press in a new bearing.

NOTICE:

Be careful of the bearing installation direction.

SST 09820-00030