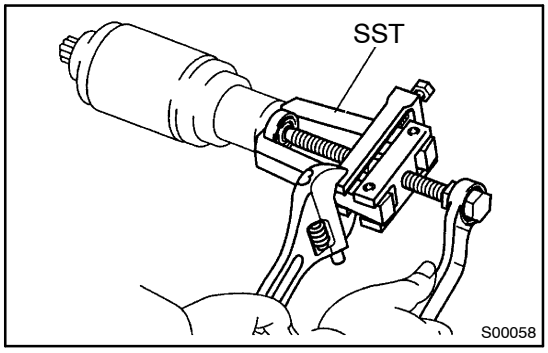
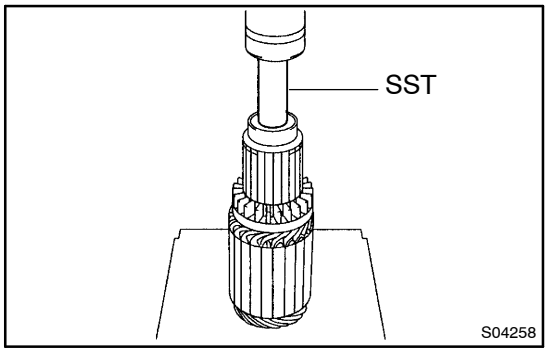
ST0OK–03

REPLACEMENT

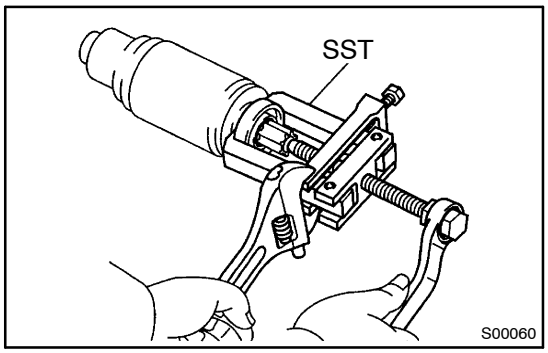


1. REPLACE REAR BEARING

(a) Using SST remove the bearing.
SST 09286–46011

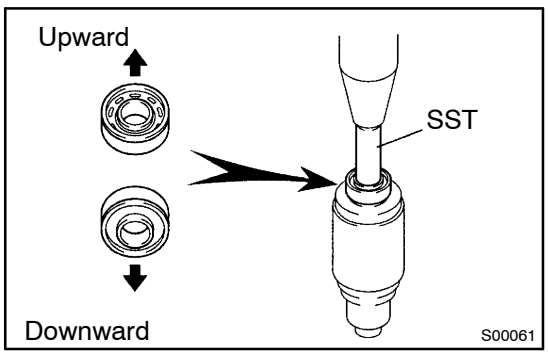


(b) Using SST and a press, press in a new bearing.
SST 09820–00031



2. REPLACE FRONT BEARING

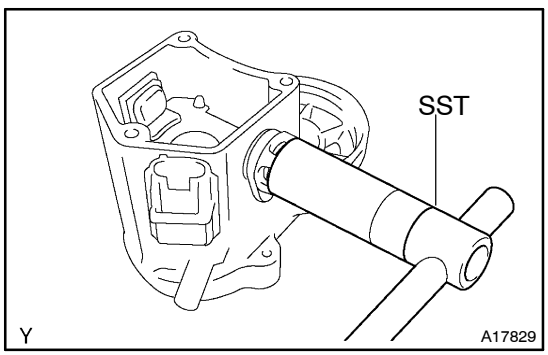
(a) Using SST, remove the bearing.
SST 09286–46011



(b) Using SST and a press, press in a new bearing.
SST 09820–00031

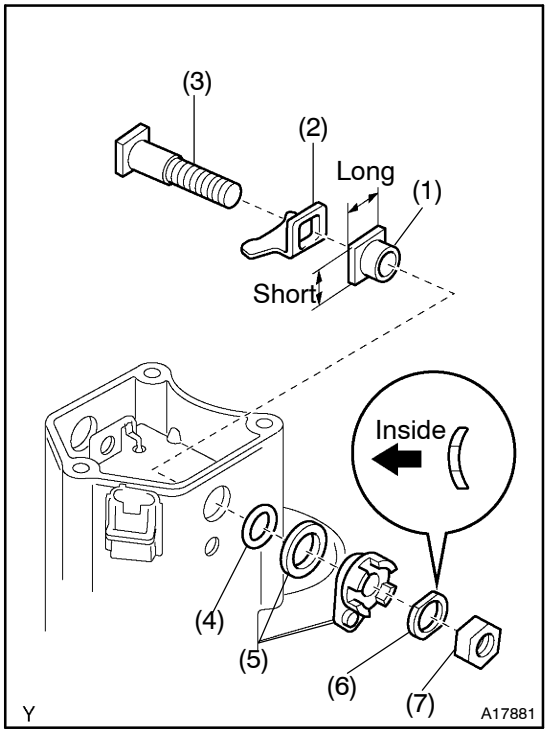
NOTICE:

Be careful of the bearing installation direction.



3. REPLACE TERMINAL KIT PART

(a) Remove the 3 nuts, end cover, gasket and plunger.
(b) Using SST, loosen the terminal nuts.
SST 09810–38170
(c) Remove the terminal C kit parts.
(d) Remove the terminal 30 kit parts.

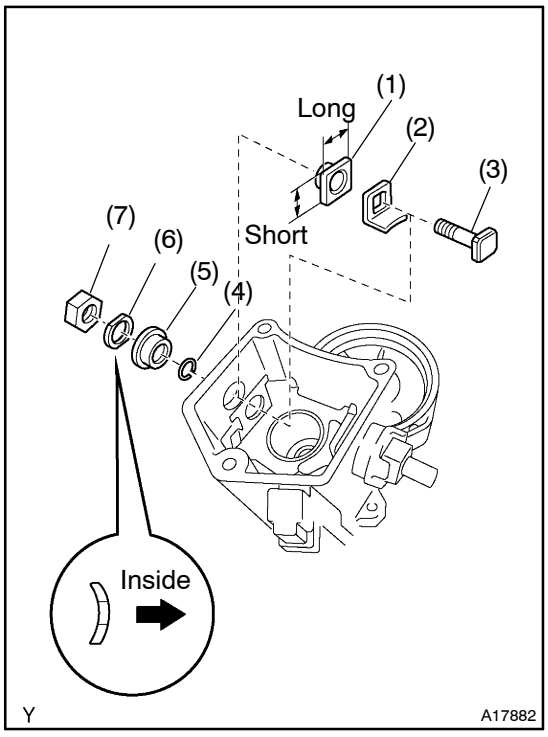


(e) Install new terminal 30 kit parts.
(1) Terminal insulator (inside)

NOTICE:

Be careful to install the terminal insulator (inside) in the correct direction.

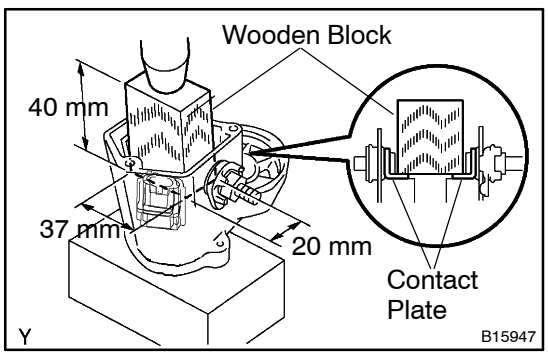
(2) Contact plate
(3) Terminal bolt
(4) O–ring
(5) Packing and terminal insulator (outside)
(6) Wave washer
(7) Terminal nut



(f) Temporarily install new terminal C kit parts.
(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 insulator (inside) and wave washer in the correct direction.



(g) Put a wooden block on the contact plate and press it down with a hand press.
Dimension of wooden block:
20 x 37 x 40 mm (0.79 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

$$(kgf/cm^2) = \frac{100\ kgf}{\left(\frac{\text{Ram diameter (cm)}}{2}\right)^2 \times 3.14\ (\pi)}$$

$$(psi) = \frac{221\ lbf}{\left(\frac{\text{Ram diameter (in.)}}{2}\right)^2 \times 3.14\ (\pi)}$$

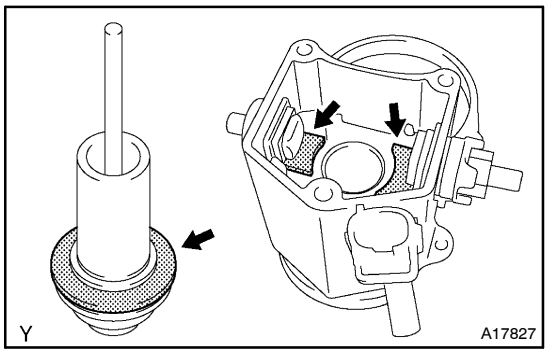
(kPa) = (kgf/cm^2) x 98

(kPa) = (psi) x 6.9

- **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.**

(h) Using SST, tighten the nuts.
SST 09810–38170
Torque:17 N·m (173 kgf·cm, 13 ft·lbf)

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



(i) Clean the contact surfaces of the remaining contact plate and plunger with a dry shop rag.
(j) Install the plunger, a new gasket and the end cover with the 3 bolts.
Torque: 3.6 N·m (37 kgf·cm, 32 in.·lbf)

4. INSTALL STARTER ARMATURE