TC04C–03

ADJUSTMENT

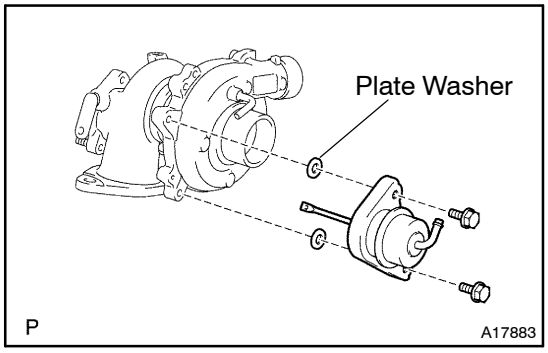
1. ADJUST ACTUATOR PUSH ROD STROKE

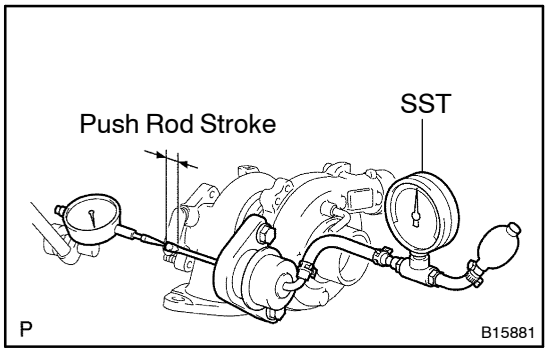
HINT:

Adjust the actuator push rod stroke is decided by the plate washer as shown in the illustration.

NOTICE:

Never apply more than 147 kPa (1.50 kgf/cm^2, 21.2 psi) of pressure to the actuator.





(a) Set the dial indicator as shown in the illustration.

(b) Using SST, apply 114 kPa (1.16 kgf/cm^2, 16.4 psi) of pressure to the actuator, and measure the push rod stroke.
SST 09992–00242

(c) Select the plate washer according to the table below.

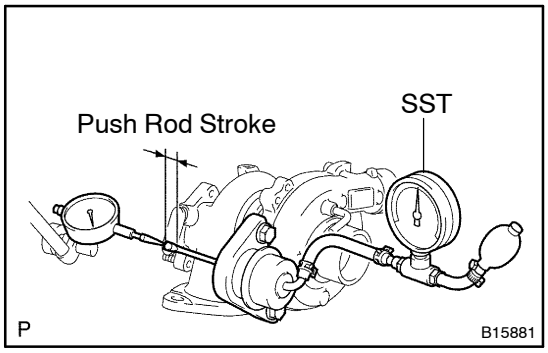
Stroke measurement mm (in.)	Required plate washer thickness mm (in.)
1.20 – 1.70 (0.0472 – 0.0669)	–
1.71 – 2.20 (0.0673 – 0.0866)	0.5 (0.020)
2.21 – 2.70 (0.0870 – 0.1063)	1.0 (0.039)
2.71 – 3.20 (0.1067 – 0.1260)	1.5 (0.059)
3.21 – 3.70 (0.1264 – 0.1457)	2.0 (0.079)
3.71 – 4.20 (0.1461 – 0.1850)	2.5 (0.098)
4.21 – 4.70 (0.1657 – 0.1850)	3.0 (0.118)
4.71 – 5.20 (0.1854 – 0.2047)	3.5 (0.138)
5.21 – 5.70 (0.2051 – 0.2244)	4.0 (0.157)
5.71 – 6.20 (0.2248 – 0.2441)	4.5 (0.177)
6.21 – 6.70 (0.2445 – 0.2638)	5.0 (0.197)
6.71 – 7.20 (0.2642 – 0.2827)	5.5 (0.217)
7.21 – 7.70 (0.2839 – 0.3031)	6.0 (0.236)
7.71 – 8.20 (0.3035 – 0.3228)	6.5 (0.256)

NOTICE:

- **Use a combination of plate washers of 0.5 mm (0.020 in.), 1.0 mm (0.039 in.) and 3.0 mm (0.118 in.) thickness to achieve the required thickness.**
- **Use the same thickness of the plate washer for the 2 locations between the actuator and compressor housing.**
- **If the plate washer thickness exceeds 3.5 mm (0.138 in.), replace the actuator installation bolts with the bolts from the kit part.**

(d) Install the 2 washers and actuator (See step 10).

(e) Using SST, apply 114 kPa (1.16 kgf/cm^2, 16.4 psi) of pressure to the actuator, and install the selected plate washers between the actuator and compressor housing with the 2 bolts.
SST 09992–00242
Torque:Torque: 8.0 N·m (82 kgf·cm, 71 in.·lbf)



(f) Using SST, apply 114 kPa (1.16 kgf/cm^2, 16.4 psi) of pressure to the actuator, and measure the actuator push rod stroke.
SST 09992–00242
Standard stroke: 1.20 – 1.70 mm (0.0472 – 0.0669 in.)

If the stroke is outside specifications, select the plate washers again.

(g) Connect the actuator hose.
(h) Remove SST.
(i) Apply yellow paint from the actuator bolts to the actuator bracket to indicate that they have been correctly installed.