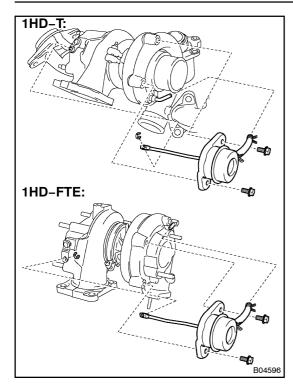
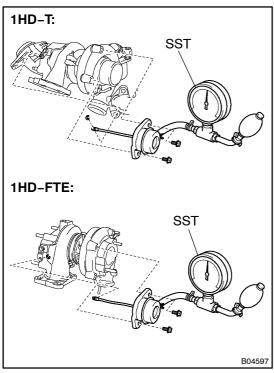
TC02B-01



REPLACEMENT

1. REMOVE ACTUATOR

- (a) Remove the actuator hose.
- (b) Remove the 2 bolts holding the actuator to the compressor hosing.
- (c) Remove the E-ring holding the actuator push rod to the waste gate valve link, and remove the actuator.



2. INSTALL ACTUATOR

(a) Using SST, apply approx. 1HD-T: 92.7 kPa (0.94 kgf/cm², 13.4 psi) 1HD-FTE: 114.0 kPa (1.16 kgf/cm², 16.5 psi) of pressure to a new actuator.

SST 09992-00242

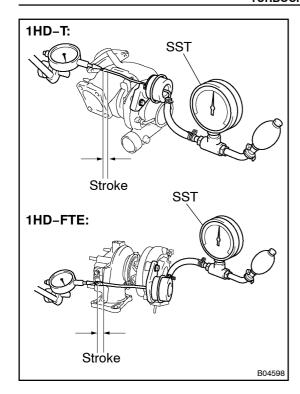
- (b) Connect the actuator push rod to the waste gate valve link with a new E-ring.
- (c) Install the actuator to the compressor housing with the 2 bolts.

Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)

(d) Remove SST

NOTICE:

- Never apply more than 1HD-T: 111.0 kPa (1.13 kgf/cm², 16.1 psi) 1HD-FTE: 145.5 kPa (1.48 kgf/cm², 21.1 psi) of pressure to the actuator.
- Do not use a hammer, etc. to force the actuator push rod on to the waste gate valve link.



3. ADJUST ACTUATOR ROD STROKE NOTICE:

Never apply more than 1HD-T: 111.0 kPa (1.13 kgf/cm², 16.1 psi) 1HD-FTE: 145.5 kPa (1.48 kgf/cm², 21.1 psi) of pressure to the actuator.

- (a) Using a dial indicator, set the dial indicator in a straight line with the actuator push rod.
- (b) Using SST, apply 1HD–T: 92.7 kPa (0.94 kgf/cm², 13.4 psi) 1HD–FTE: 114.0 kPa (1.16 kgf/cm², 16.5 psi) of pressure to the actuator, and measure the actuator push rod stroke.

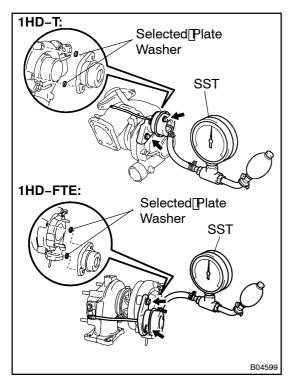
SST 09992-00242

(c) From the table below select the plate washer thickness to match the stroke measured in (b) above.

1HD-T: Stroke measurement mm (in.)	1HD-FTE: Stroke measurement mm (in.)	Required plate washer thickness mm (in.)
1.20 - 1.70 (0.0472 - 0.0670)	0.72 - 1.22 (0.0283 - 0.0480)	None required
1.71 – 2.20 (0.0671 – 0.866)	1.23 – 1.72 (0.0481 – 0.0677)	0.5 (0.020)
2.21 – 2.70 (0.867 – 0.1063)	1.73 – 2.22 (0.0678 – 0.0874)	1.0 (0.039)
2.71 - 3.20 (0.1064 - 0.1260)	2.23 – 2.72 (0.0875 – 0.1071)	1.5 (0.059)
3.21 – 3.70 (0.1261 – 0.1457)	2.73 - 3.22 (0.1072 - 0.1268)	2.0 (0.079)
3.71 – 4.20 (0.1458 – 0.1654)	3.23 – 3.72 (0.1269 – 0.1465)	2.5 (0.098)
4.21 - 4.70 (0.1655 - 0.1850)	3.73 - 4.22 (0.1466 - 0.1661)	3.0 (0.118)
4.71 – 5.20 (0.1850 – 0.2047)	4.23 – 4.72 (0.1662 – 0.1858)	3.5 (0.138)
5.21 - 5.70 (0.2048 - 0.2244)	4.73 – 5.22 (0.1859 – 0.2055)	4.0 (0.157)
5.71 - 6.20 (0.2245 - 0.2441)	5.23 – 5.72 (0.2056 – 0.2252)	4.5 (0.177)
6.21 - 6.70 (0.2442 - 0.2638)	5.73 - 6.22 (0.2253 - 0.2449)	5.0 (0.197)
6.71 - 7.20 (0.2639 - 0.2827)	6.23 - 6.72 (0.2450 - 0.2646)	5.5 (0.217)
7.21 – 7.70 (0.2828 – 0.3031)	6.73 – 7.22 (0.2647 – 0.2843)	6.0 (0.236)
7.71 – 8.20 (0.3032 – 0.3228)	7.23 – 7.72 (0.2844 – 0.3039)	6.5 (0.256)

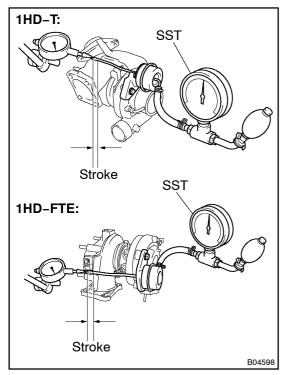
NOTICE:

- Use a combination of plate washers of 0.5 mm (0.020 in.), 1.0 mm (0.039 in.), 2.0 mm (0.079 in.) and 3.0 mm (0.118 in.) thickness to a chive the required thickness.
- Use the same thickness of 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) Using \$ST, apply approx. 1HD-T: \$\text{92.7} RPa (0.94) Rgf/cm \text{91} 13.4 \text{9si} (0.94) Rgf/cm \text{91} 16.5 \text{9si} (0.94) Rgf/cm \text{92} 16.5 \text{9si} (0.94) Rgf/cm \text{93} Rgf/cm \text{93} 16.5 \text{9si} (0.94) Rgf/cm \text{93} 16.5 \text{16} 16.5 \text{16} Rgf/cm \text{16} 16.5 \text{16} Rg

Torque: 9 N·m 195 kgf·cm, 4 ft·lbf)



(e) Using SST, apply 1HD-T: 92.7 kPa 0.94 kgf/cm 13.4 psi) HD-FTE: 114.0 kPa 1.16 kgf/cm 16.5 psi) of pressure of heactuator, and measure the actuator push od stroke.

SST 09992-00242

Standard stroke:

1HD-T: 1.20 - 7.70 mm (0.0472 - 0.0669 n.)

1HD-FTE:[0.72 -[].22[mm[(0.0283 -[0.0480[in.)

If the stroke specifications, reselect he plate washers.

4. ☐ INSTALL ACTUATOR HOSE

5. APPLY[YELLOW[PAINT

Apply[yellow[paint[from[the[actuator[bolts[to[the[actuator[brack-et[lo]]]nc]]]nc]] and the property of the context of the cont

6. CHECK TURBOCHARGING PRESSURE

(See page TC-4)