

CLUTCH UNIT

OVERHAUL

1. REMOVE MANUAL TRANSAXLE ASSY

- (a) 1AZ-FE: [\(See page 41-10\)](#)
- (b) 1CD-FTV: [\(See page 41-18\)](#)

2. REMOVE CLUTCH RELEASE FORK BOOT

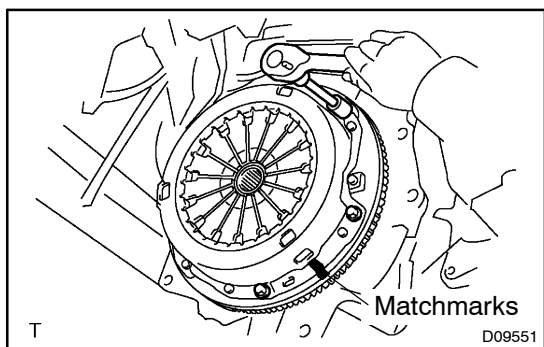
3. REMOVE CLUTCH RELEASE BEARING ASSY

4. REMOVE CLUTCH RELEASE FORK SUB-ASSY

5. REMOVE RELEASE BEARING HUB CLIP

6. REMOVE RELEASE FORK SUPPORT

- (a) Remove the release fork support from the transaxle assy.



7. REMOVE CLUTCH COVER ASSY

- (a) Place the matchmarks on the clutch cover with the one on the flywheel.
- (b) Loosen each set bolt one turn at a time until spring tension is released.
- (c) Remove the set bolts, and pull off the clutch cover.

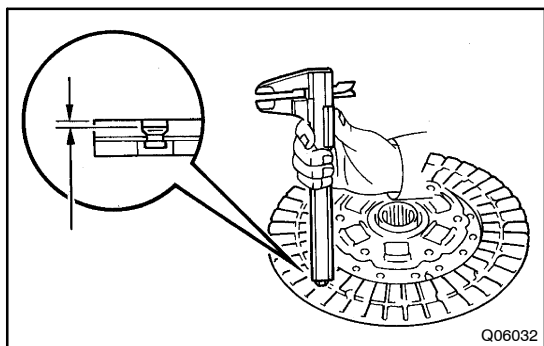
NOTICE:

Do not drop the clutch disc.

8. REMOVE CLUTCH DISC ASSY

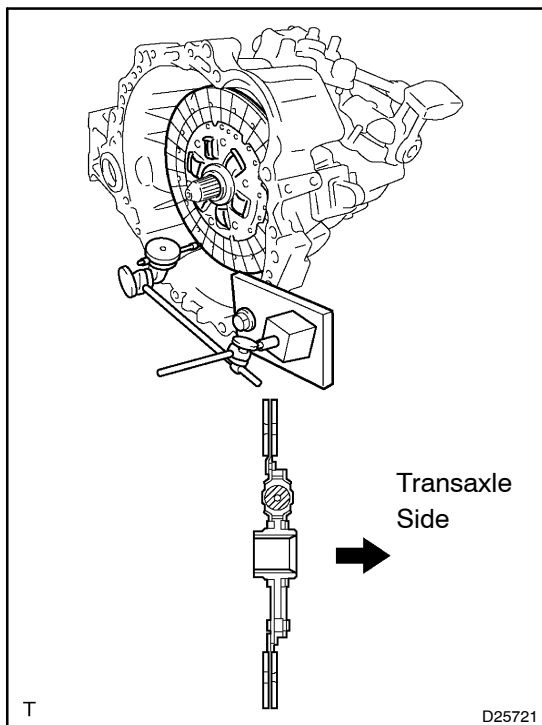
NOTICE:

Keep the lining part of the clutch disc assy, the pressure plate and surface of the flywheel away from oil and foreign attachment.



9. INSPECT CLUTCH DISC ASSY

- (a) Using vernier calipers, measure the rivet head depth.
Maximum rivet depth: 0.3 mm (0.012 in.)
If necessary, replace the clutch disc.



- (b) Install the clutch disc to the transaxle assy.

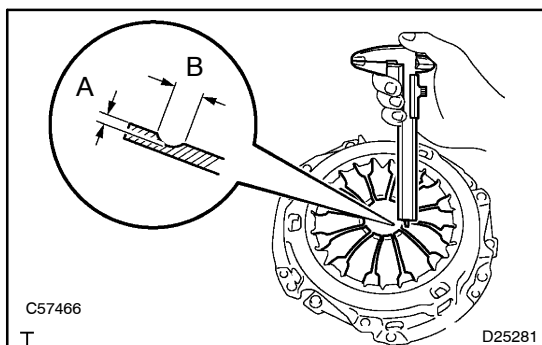
NOTICE:

Take care not to insert the clutch disc in the wrong direction

- (c) Using a dial indicator, check the disc runout.

Minimum runout: 0.8 mm (0.031 in.)

If necessary, replace the clutch disc.



10. INSPECT CLUTCH COVER ASSY

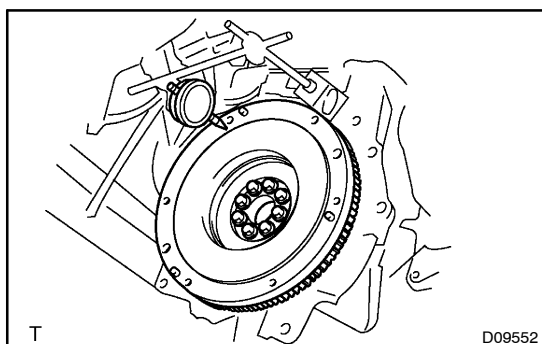
- (a) Using vernier calipers, inspect the diaphragm spring for depth and width of wear.

Maximum:

A (Depth): 0.5 mm (0.020 in.)

B (Width): 6.0 mm (0.236 in.)

If necessary, replace clutch cover assy.



11. INSPECT FLYWHEEL SUB-ASSY

- (a) Using a dial indicator, inspect the flywheel runout.

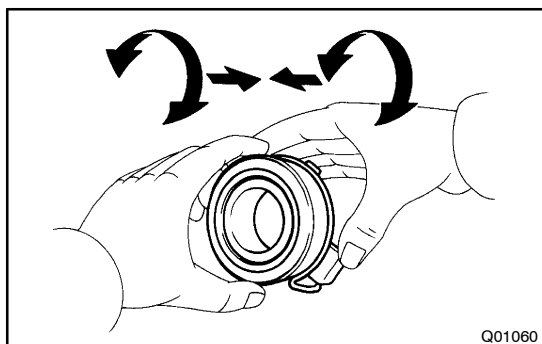
Maximum runout: 0.1 mm (0.004 in.)

If necessary, replace the flywheel.

Torque:

1AZ-FE: 130 N·m (1,326 kgf·cm, 96 ft·lbf)

1CD-FTV: 88 N·m (898 kgf·cm, 65 ft·lbf)



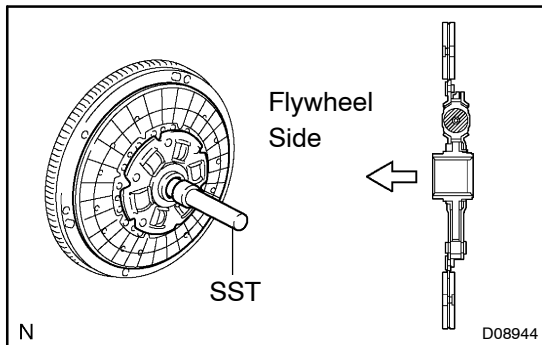
12. INSPECT CLUTCH RELEASE BEARING ASSY

- (a) Turn the bearing by hand while applying force in the axial direction.

HINT:

The bearing is permanently lubricated and requires no cleaning or lubrication.

If necessary, replace the release bearing.



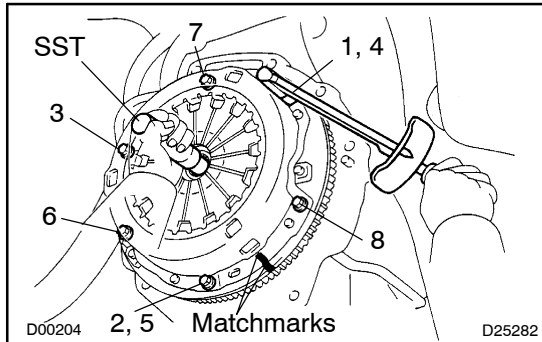
13. INSTALL CLUTCH DISC ASSY

- (a) Insert SST in the clutch disc, then insert them in the flywheel.

SST 09301-00220

NOTICE:

Take care not to insert clutch disc in the wrong direction.



14. INSTALL CLUTCH COVER ASSY

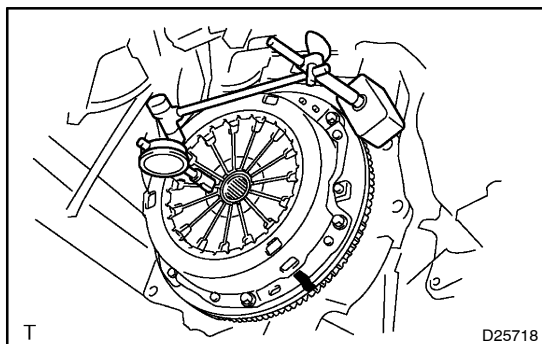
- (a) Align the matchmarks on the clutch cover and flywheel.
 (b) Following the procedures shown in the illustration, tighten the 6 bolts, in the order starting the bolt locating near the knock pin on the top.

Torque: 19.1 N·m (195 kgf·cm, 14 ft·lbf)

HINT:

- Following the order in the illustration, tighten the bolts at a time evenly.
- Move SST up and down, right and left lightly, after checking that the disc is in the center, tighten the bolts.

15. INSPECT AND ADJUST CLUTCH COVER ASSY

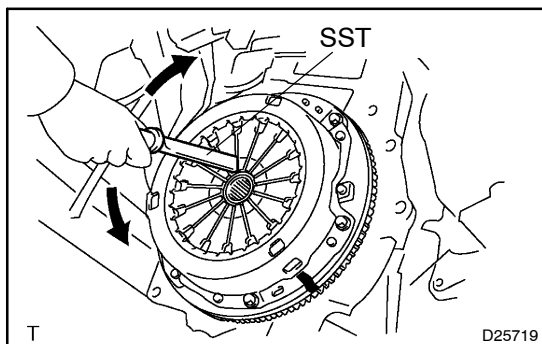


- (a) Using a dial indicator with roller instrument, check the diaphragm spring tip alignment.

Maximum non-alignment: 0.5 mm (0.020 in.)

If alignment is not as specified, using SST, adjust the diaphragm spring tip alignment.

SST 09333-00013



16. INSTALL RELEASE FORK SUPPORT

- (a) Install the release fork support to the transaxle Assy.

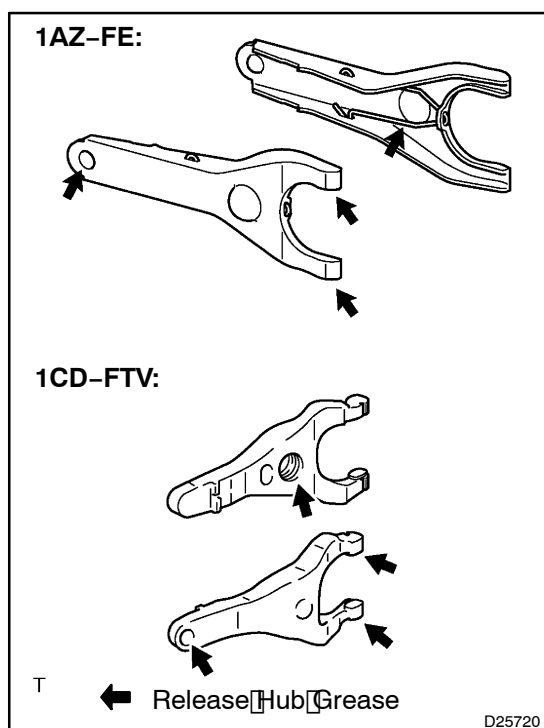
Torque:

1AZ-FE: 47 N·m (479 kgf·cm, 35 ft·lb)

1CD-FTV: 39 N·m (400 kgf·cm, 29 ft·lb)

17. INSTALL RELEASE BEARING HUB CLIP

- (a) Install the release bearing hub clip to the bearing.



18. INSTALL CLUTCH RELEASE FORK SUB-ASSY

- (a) Apply release hub grease to the release fork and hub contact, release fork and push rod contact and release fork pivot points.

Sealant:

Part No. 08887-01806, RELEASE HUB GREASE or equivalent

- (b) Install the release fork to the bearing Assy.

19. INSTALL CLUTCH RELEASE BEARING ASSY

- (a) Apply the clutch spline grease to the input shaft spline.

Sealant:

Part No. 08887-01706, CLUTCH SPLINE GREASE or equivalent

- (b) Install the release fork with bearing Assy to the transaxle Assy.

NOTICE:

After the installation, move the fork forward and backward to check that the release bearing slides smoothly.

20. INSTALL CLUTCH RELEASE FORK BOOT

21. INSTALL MANUAL TRANSAXLE ASSY

- (a) 1AZ-FE: (See page 41-10)
- (b) 1CD-FTV: (See page 41-18)