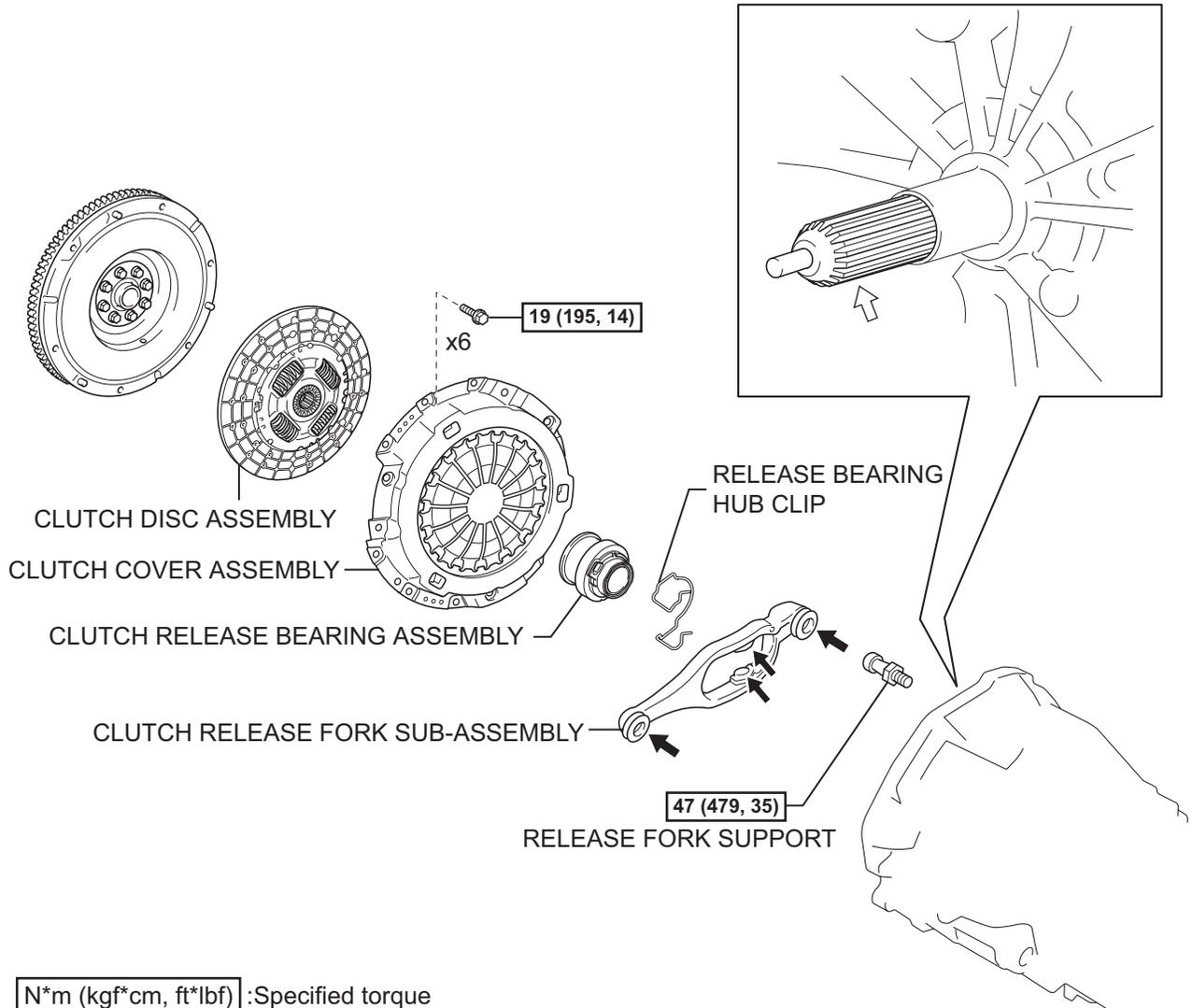


CLUTCH UNIT COMPONENTS



N*m (kgf*cm, ft*lbf) :Specified torque

← Clutch spline grease ← Release hub grease

CL

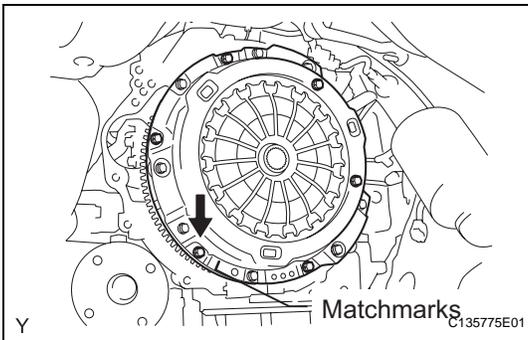
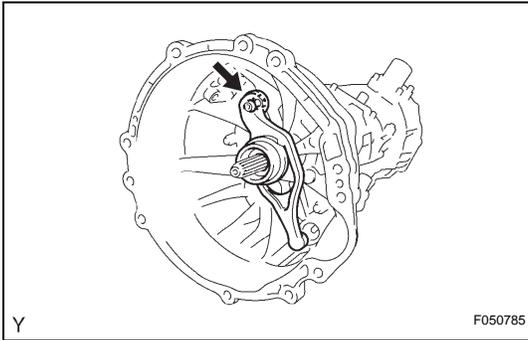
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REMOVAL

1. **REMOVE MANUAL TRANSMISSION ASSEMBLY**
(See page [MT-8](#))
2. **REMOVE CLUTCH RELEASE FORK SUB-ASSEMBLY**
 - (a) Remove the clutch release fork together with the clutch release bearing from the transmission assembly.
3. **REMOVE CLUTCH RELEASE BEARING ASSEMBLY**
 - (a) Remove the clutch release bearing assembly from the clutch release fork.
4. **REMOVE RELEASE FORK SUPPORT**
 - (a) Remove the release fork support from the transaxle assembly.
5. **REMOVE RELEASE BEARING HUB CLIP**
6. **REMOVE CLUTCH COVER ASSEMBLY**
 - (a) Align the matchmark on the clutch cover assembly with the one on the flywheel sub-assembly.
 - (b) Loosen each set bolt one turn at a time until the spring tension is released.
 - (c) Remove the 6 bolts and clutch cover assembly.

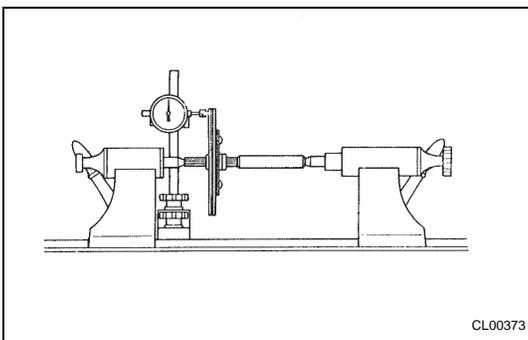
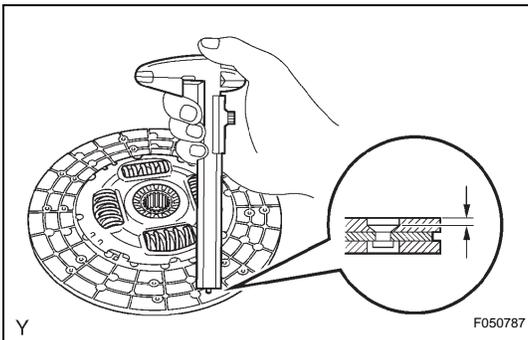
NOTICE:
Do not drop the clutch disc assembly.

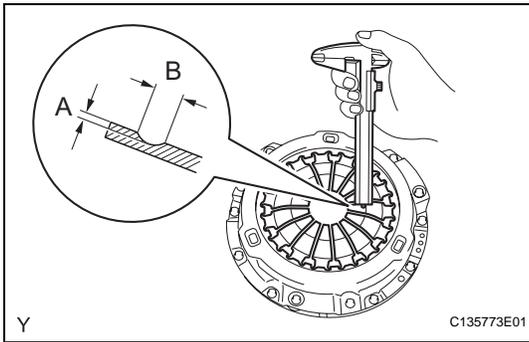


7. **REMOVE CLUTCH DISC ASSEMBLY**
NOTICE:
Keep the lining part of the clutch disc assembly, pressure plate and surface of the flywheel sub-assembly free from oil and foreign matter.

INSPECTION

1. **INSPECT CLUTCH DISC ASSEMBLY**
 - (a) Using vernier calipers, measure the rivet head depth.
Maximum rivet depth:
0.3 mm (0.012 in.)
If necessary, replace the clutch disc assembly.
 - (b) Install the clutch disc assembly onto the transaxle assembly.
NOTICE:
Insert the clutch disc assembly in the correct orientation.
 - (c) Using a dial indicator, check the clutch disc assembly runout.
Minimum runout:
0.7 mm (0.028 in.)
If necessary, replace the clutch disc assembly.





2. INSPECT CLUTCH COVER ASSEMBLY

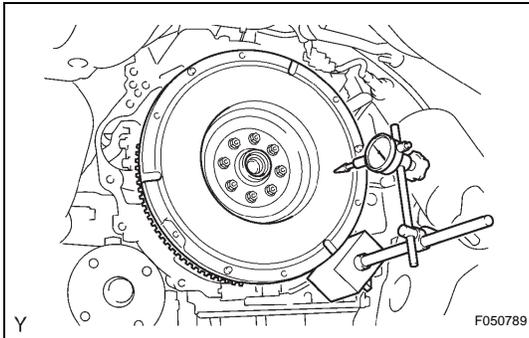
- (a) Using vernier calipers, inspect the depth and width of wear of the diaphragm spring.

Minimum:

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

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

If necessary, replace the clutch cover assembly.



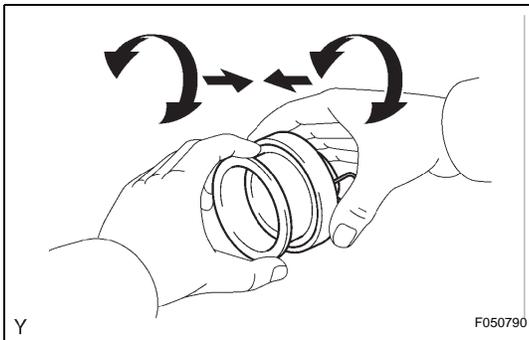
3. INSPECT FLYWHEEL SUB-ASSEMBLY

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

Maximum runout:

0.1 mm (0.004 in.)

If necessary, replace the flywheel sub-assembly.



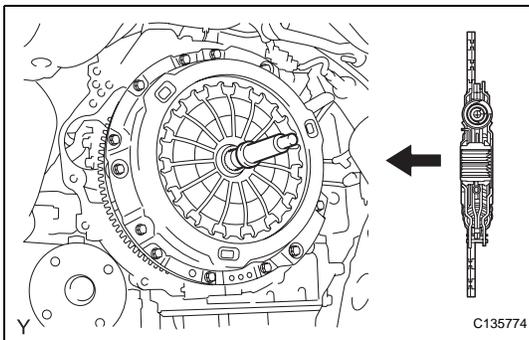
4. INSPECT CLUTCH RELEASE BEARING ASSEMBLY

- (a) Turn the release 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 assembly.



INSTALLATION

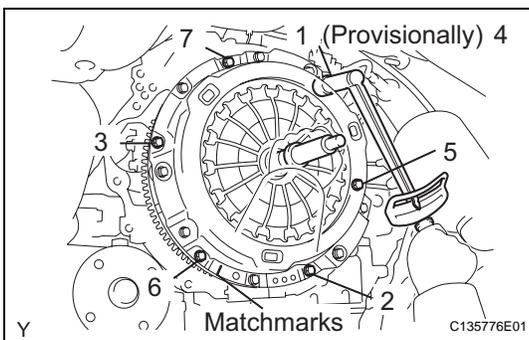
1. INSTALL CLUTCH DISC ASSEMBLY

- (a) Insert SST into the clutch disc assembly, then insert them into the flywheel sub-assembly.

SST 09301-00220

NOTICE:

Insert the clutch disc assembly in the correct orientation.



2. INSTALL CLUTCH COVER ASSEMBLY

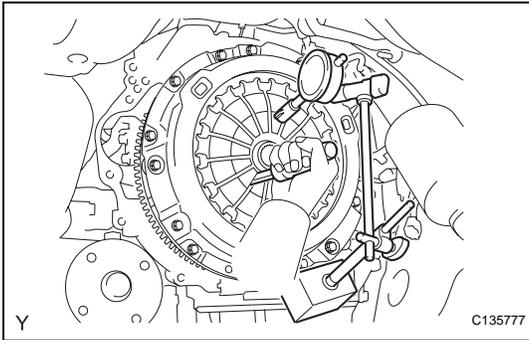
- (a) Align the matchmarks on the clutch cover assembly and flywheel sub-assembly.
- (b) Following the procedures shown in the illustration, tighten the 6 bolts, in the order starting with the bolt located near the knock pin on the top.

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

HINT:

- Following the order in the illustration, uniformly tighten the bolts.

- Move SST up and down, right and left lightly, after checking that the disc is in the center, and tighten the bolts.



3. INSPECT AND ADJUST CLUTCH COVER ASSEMBLY

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

Maximum non-alignment:

0.5 mm (0.020 in.)

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

SST 09333-00013

4. INSTALL RELEASE FORK SUPPORT

- (a) Install the release fork support onto the transaxle assembly.

Torque: 47 N*m (479 kgf*cm, 35 ft.*lbf)

5. INSTALL RELEASE BEARING HUB CLIP

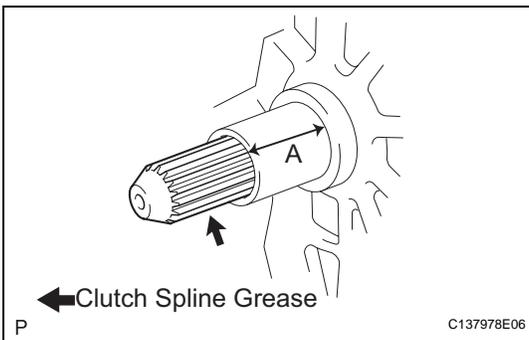
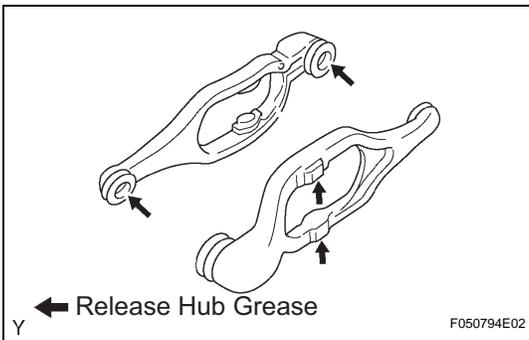
6. INSTALL CLUTCH RELEASE FORK SUB-ASSEMBLY

- (a) Apply release hub grease to the release fork and release bearing assembly contact surfaces, release fork and push rod contact surface and release fork pivot point.

Sealant:

Toyota Genuine Release Hub Grease or Equivalent

- (b) Install the release fork onto the release bearing assembly.



7. INSTALL CLUTCH RELEASE BEARING ASSEMBLY

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

Sealant:

Toyota Genuine Clutch Spline Grease or Equivalent

NOTICE:

Do not apply grease to portion A shown in the illustration.

- (b) Install the bearing onto the release fork, and then install them onto the transaxle assembly.

NOTICE:

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

8. INSTALL MANUAL TRANSMISSION ASSEMBLY

(See page [MT-11](#))