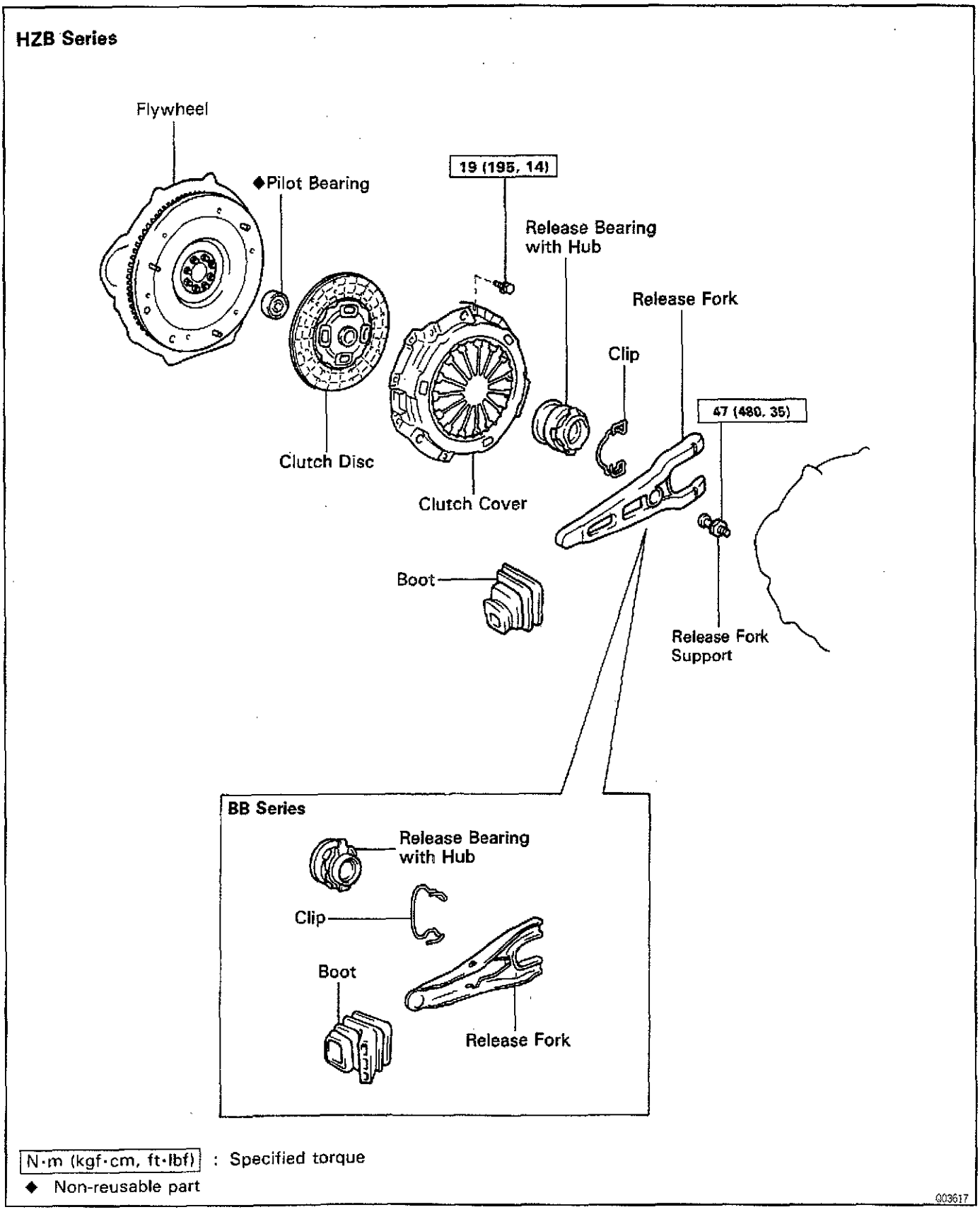
CLUTCH UNIT
COMPONENTS

CL04K–01

CL



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

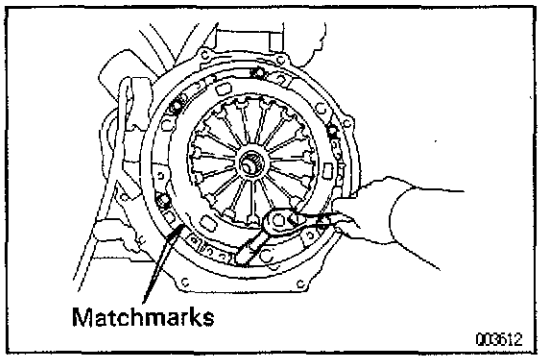
◆ Non-reusable part

003617

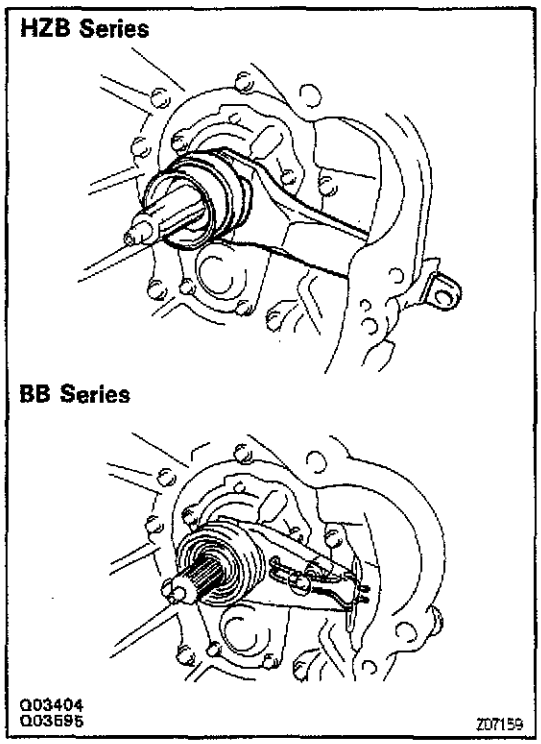
CL04L–01

CLUTCH UNIT REMOVAL

1. **REMOVE TRANSMISSION**
   3B, 14B Engine
   (See page MT–22)
   1HZ Engine
   (See page MT–10)
   HINT: Do not drain the transmission oil.



2. **REMOVE CLUTCH COVER AND DISC**
   (a) Put matchmarks on the clutch cover and flywheel.
   (b) Loosen the each set bolts one turn at a time until spring tension is released.
   (c) Remove the set bolts, and pull off the clutch cover and disc.
   NOTICE: Do not drop the clutch disc.

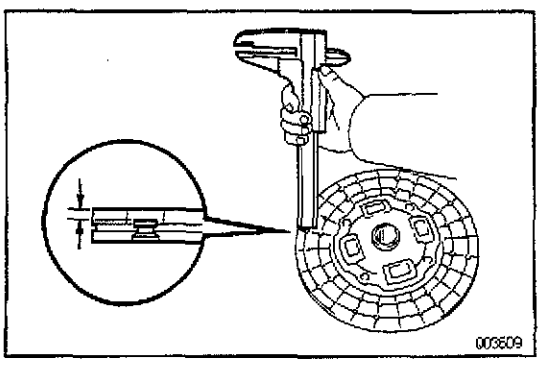


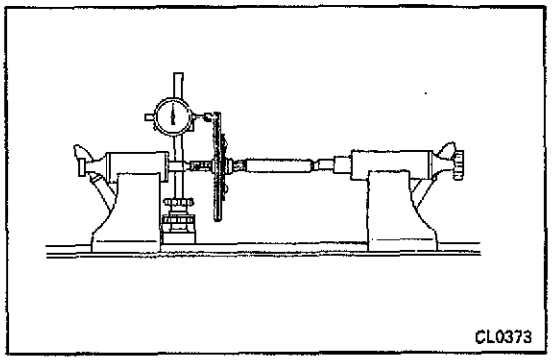
3. **REMOVE RELEASE BEARING AND FORK FROM TRANSMISSION**
   (a) Remove the boot.
   (b) Remove the release bearing together with the fork and then separate them.

CL04M–01

CLUTCH PARTS INSPECTION AND REPLACEMENT

1. **INSPECT CLUTCH DISC FOR WEAR OR DAMAGE**
   Using calipers, measure the rivet head depth.
   Minimum rivet depth:
   0.3 mm (0.012 in.)
   If necessary, replace the clutch disc.





CL

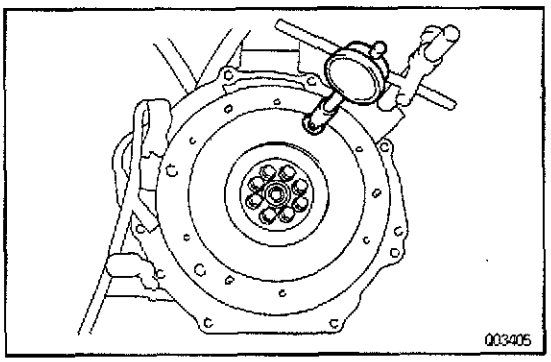
2. INSPECT CLUTCH DISC RUNOUT

Using a dial indicator, check the disc runout.

Maximum runout:

0.8 mm (0.031 in.)

If necessary, replace the clutch disc.



3. INSPECT FLYWHEEL RUNOUT

Using a dial indicator, check the flywheel runout.

Maximum runout:

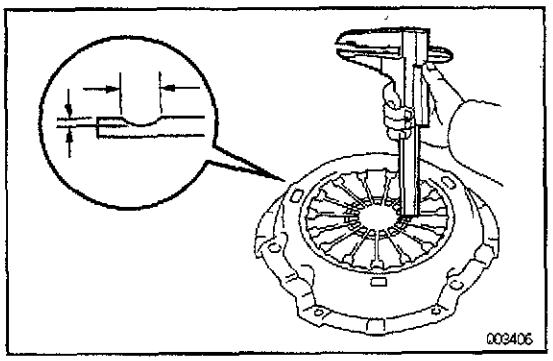
0.1 mm (0.004 in.)

If necessary, replace the flywheel.

Torque:

BB series 177 N·m (1,800 kgf·cm, 130 ft·lbf)

HZB series 127 N·m (1,300 kgf·cm, 94 ft·lbf)



4. INSPECT DIAPHRAGM SPRING FOR WEAR

Using calipers, measure the diaphragm spring for depth and width of wear.

Maximum:

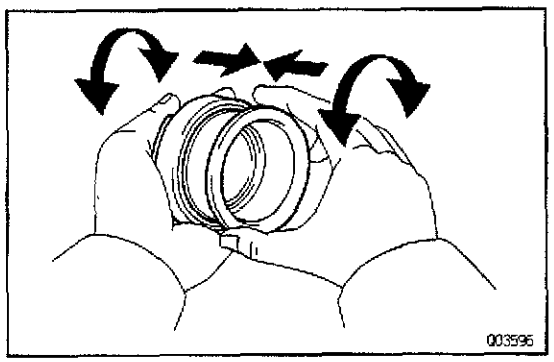
Depth

0.6 mm (0.024 in.)

Width

5.0 mm (0.197 in.)

If necessary, replace the clutch cover.



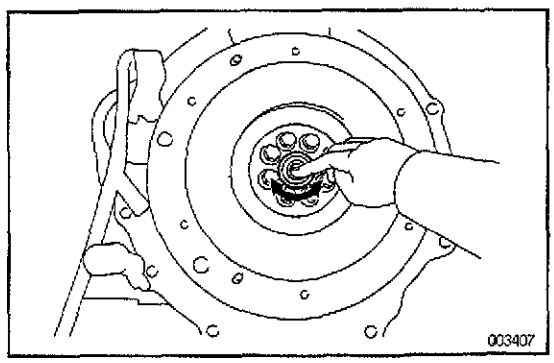
5. INSPECT RELEASE BEARING

Turn the bearing by hand while applying force in the axial direction.

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

6. REPLACE RELEASE BEARING NECESSARY

Replace the release bearing with hub.

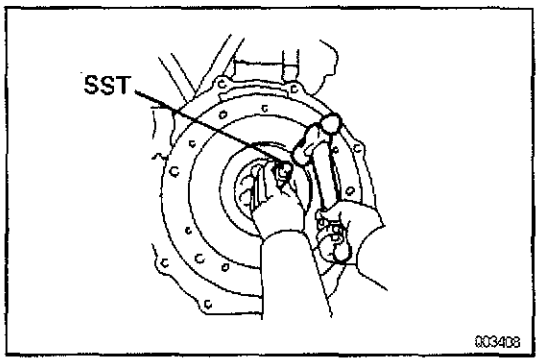


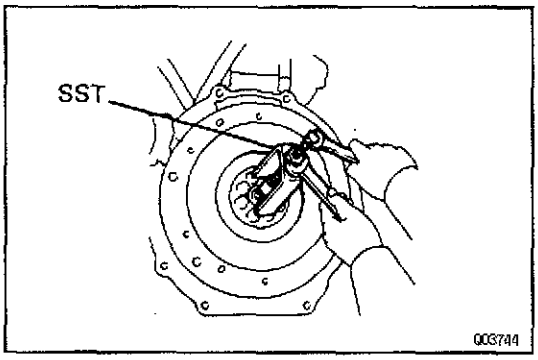
7. INSPECT PILOT BEARING

Turn the bearing by hand while applying force in the rotation direction.

If the bearing sticks or has much resistance, replace the pilot bearing.

HINT: The bearing is permanently lubricated and regires no cleaning or lubrication.

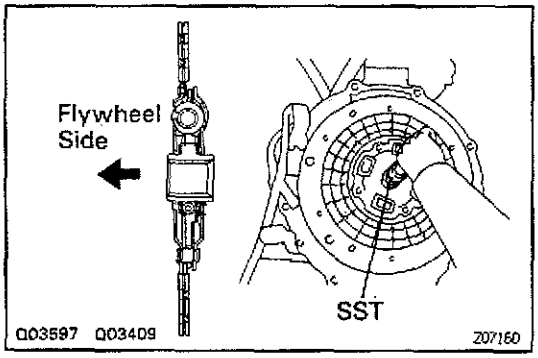




8. REPLACE PILOT BEARING NECESSARY

(a) Using SST, remove the pilot bearing.
SST 09303–35011

(b) Using SST, drive in a new pilot bearing.
BB series:
SST 09250–10011 (09252–10010, 09254–10010)
HZB series:
SST 09250–10011 (09252–10010, 09256–10010)
HINT: After assembling the pilot bearing to the hub, ensure that it rotates smoothly.



CLUTCH UNIT INSTALLATION

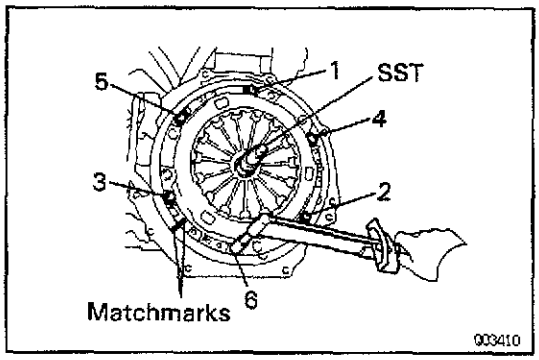
CL04R–01

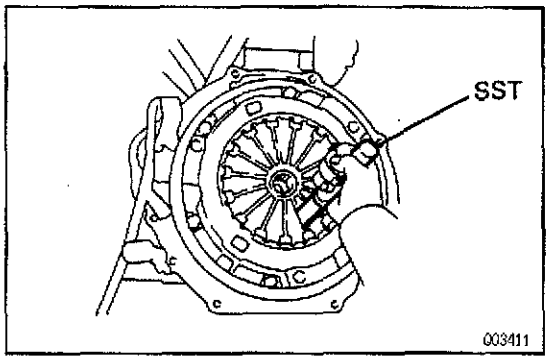
1. INSTALL CLUTCH DISC AND CLUTCH COVER ON FLYWHEEL

(a) Insert the SST in the clutch disc, and then set then and the clutch cover in position.
BB series:
SST 09301–00110
HZB series:
SST 09301–00120

(b) Align the matchmarks on the clutch cover and flywheel.

(c) Torque the bolts on the clutch cover in the order shown.
Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)
HINT: Temporarily tighten the No.1 and No.2 bolts.





CL

2. CHECK DIAPHRAGM SPRING TIP ALIGNMENT

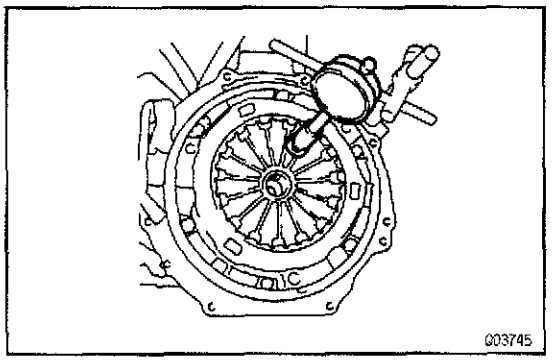
Using a dial indicator with roller instrument, check the diaphragm spring tip alignment.

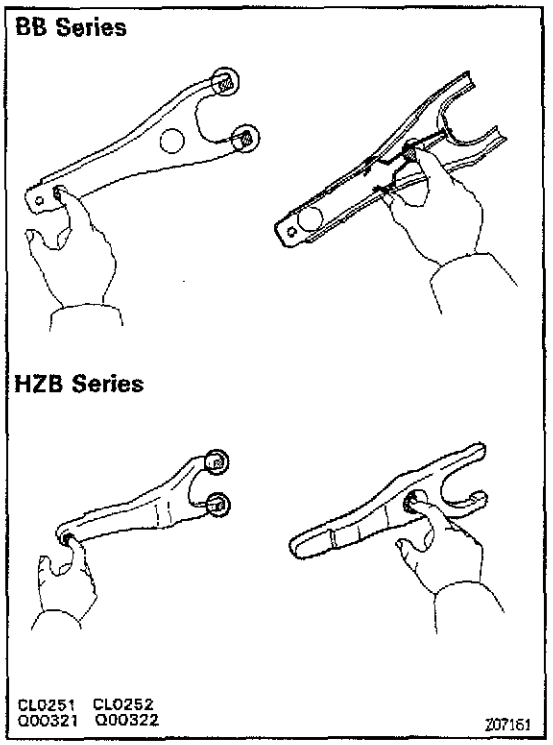
Maximum non–alignment:

0.5 mm (0.020 in.)

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

SST 09333–00013

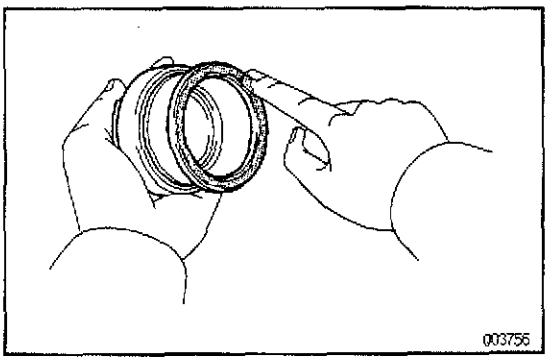




3. APPLY GREASE TO CONTALTING PARTS

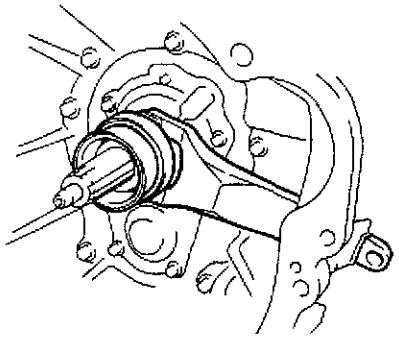
(a) Apply molybdenum disulphide lithium base grease (NLGI No.2) to the following parts.

- Release fork and hub contact point
- Release fork and push rod contact point
- Release fork pivot point

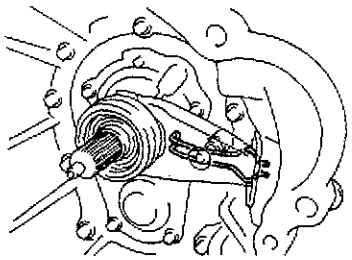


(b) Apply MP grease to the front of the release bearing.

HZB Series



BB Series



Q03404
Q03595
Z07159

4. INSTALL RELEASE BEARING, FORK TO TRANSMISSION

(a) Install the boot to the transmission.
(b) Install the release hub to the release fork with the clip.
(c) Install the release hub and the release fork to the transmission.
(d) Insert the release fork support to the spring by pushing the release fork.
(e) Apply molybdenum disulphide lithium base grease (NLGI No.2) to the transmission input shaft spline.

5. INSTALL TRANSMISSION

3B, 14B Engine
(See page MT–27)
1HZ Engine
(See page MT–15)

CL