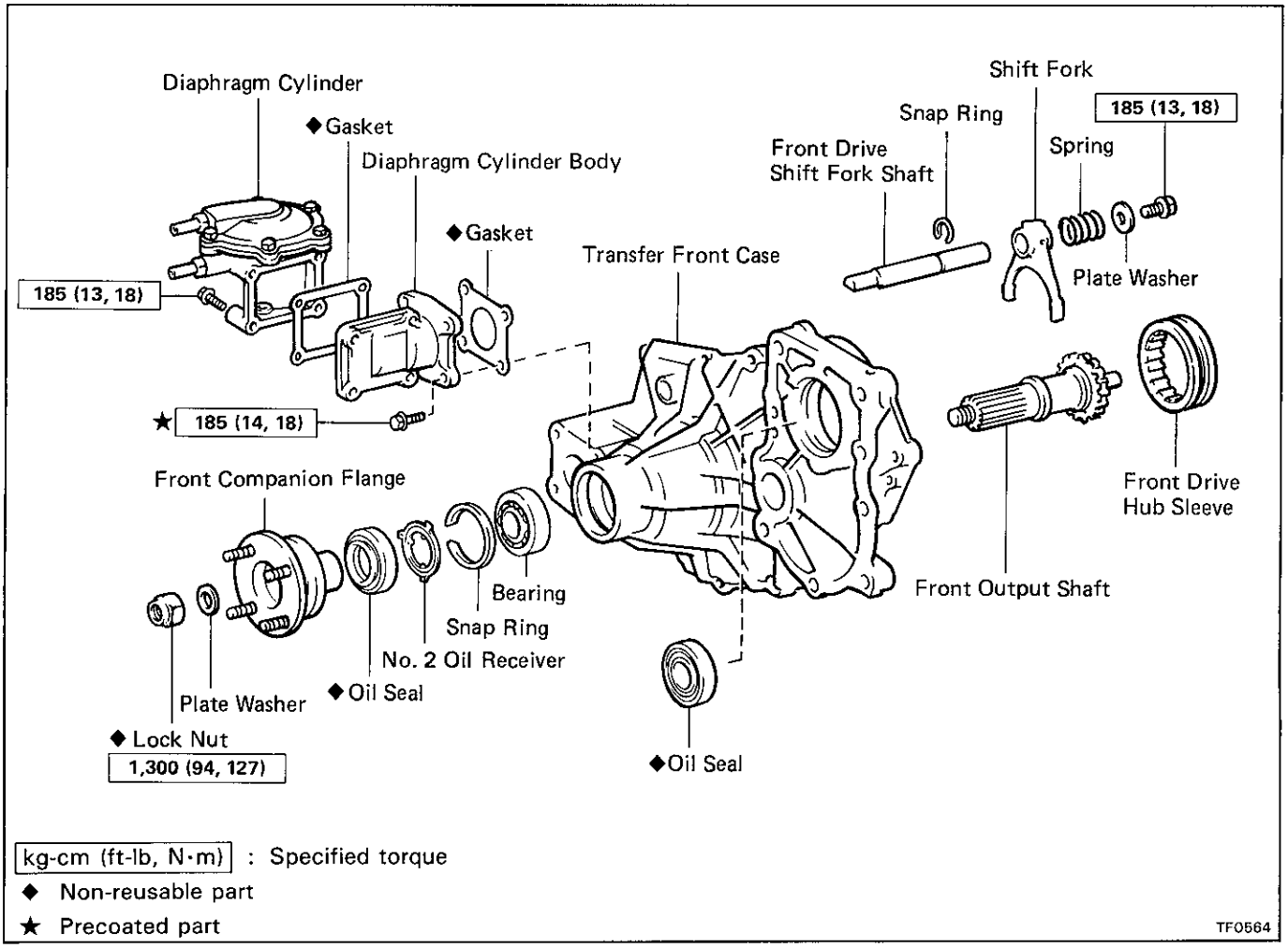
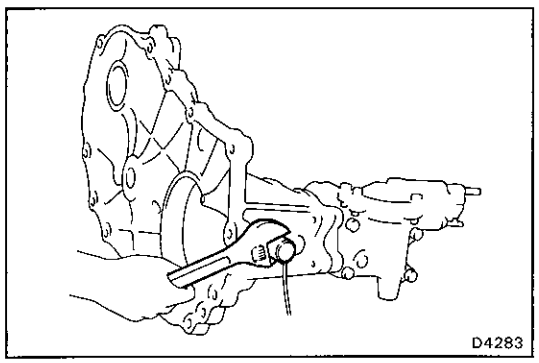
Transfer Front Case

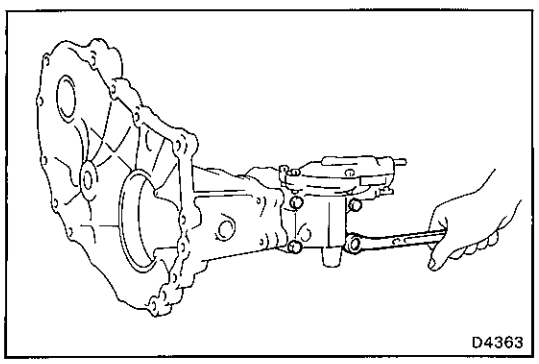
COMPONENTS





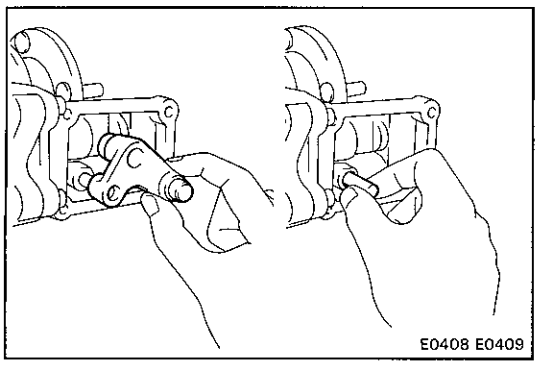
DISASSEMBLY OF TRANSFER FRONT CASE

1. REMOVE 4WD INDICATOR SWITCH

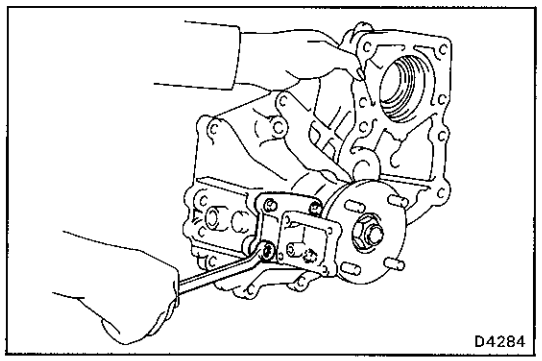


2. [VACUUM SHIFT TYPE] REMOVE DIAPHRAGM CYLINDER ASSEMBLY

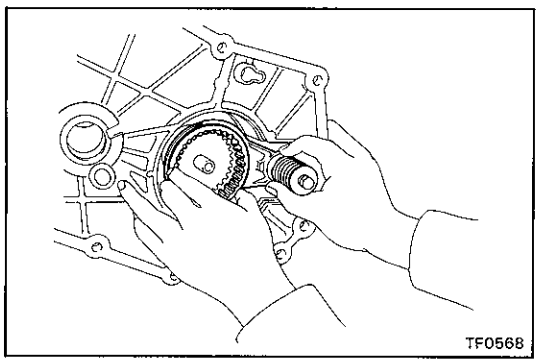
(a) Remove the four bolts, diaphragm cylinder and gasket.



(b) Remove the shift link lever and straight pin.

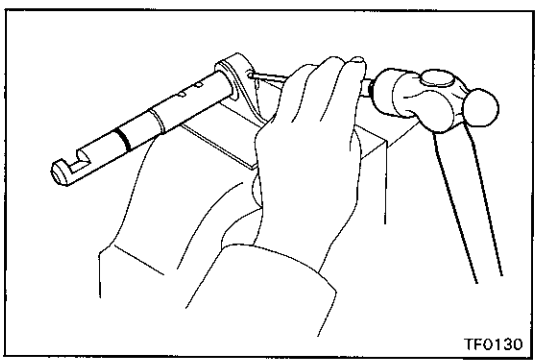


(c) Remove the four bolts, diaphragm cylinder body and gasket.



3. REMOVE FRONT DRIVE HUB SLEEVE

Remove the hub sleeve with front drive shift fork shaft assembly.



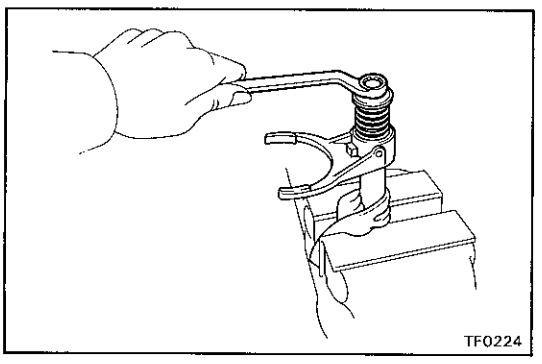
4. REMOVE FRONT DRIVE SHIFT FORK SHAFT

[Direct Shift Type]

(a) Mount the front drive shift fork shaft in a soft jaw vise.

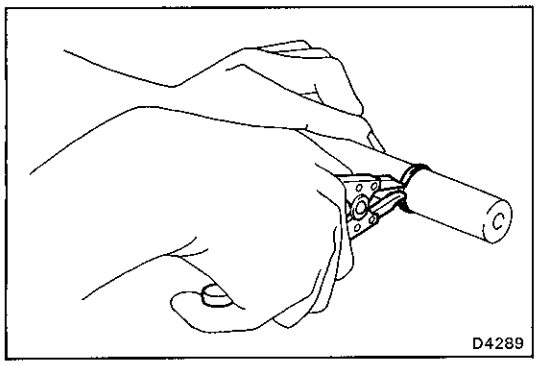
(b) Using a pin punch and hammer, drive out the slotted spring pin.

(c) Remove the shift fork from the shift fork shaft.

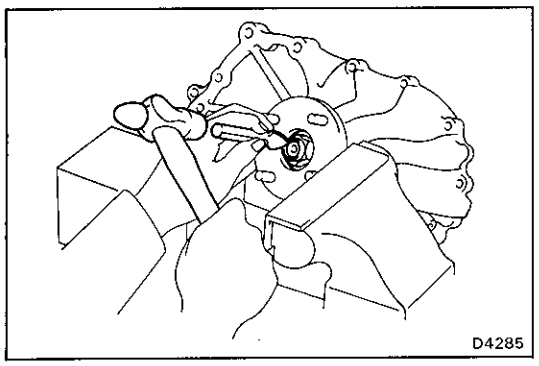


[Vacuum Shift Type]

(a) Remove the bolt, plate washer, spring and shift fork from the shift fork shaft.



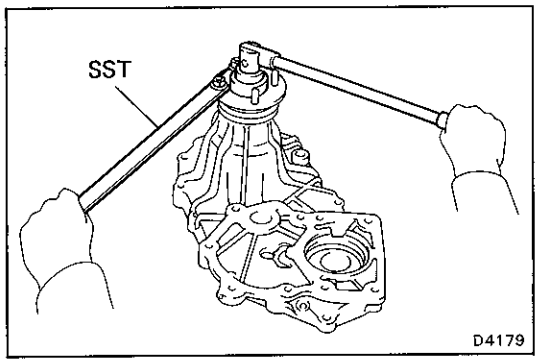
(b) Using snap ring pliers, remove the snap ring.



5. REMOVE FRONT COMPANION FLANGE

(a) Mount the companion flange in a vise.

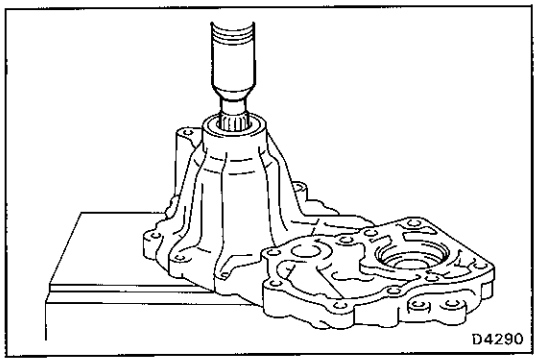
(b) Using a hammer and chisel, loosen the staked part of the nut.



(c) Using SST and two nuts to hold the front companion flange, remove the companion flange lock nut.

SST 09330-00021

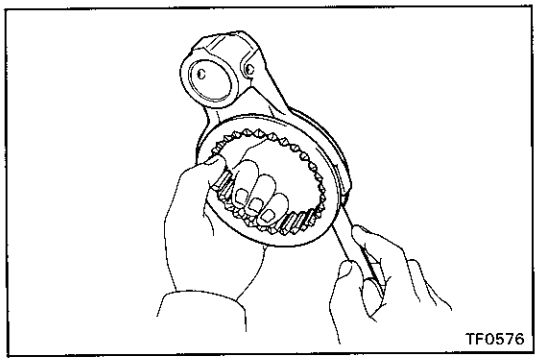
(d) Remove the plate washer and companion flange.



6. REMOVE FRONT OUTPUT SHAFT

Using a press, press out the front output shaft.

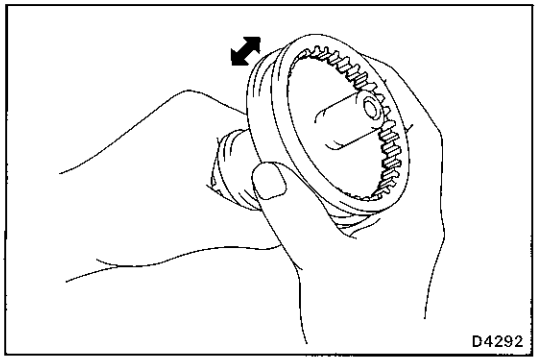
INSPECTION OF TRANSFER FRONT CASE



1. INSPECT CLEARANCE OF SHIFT FORK AND HUB SLEEVE

Using a feeler gauge, measure the clearance between the hub sleeve and shift fork.

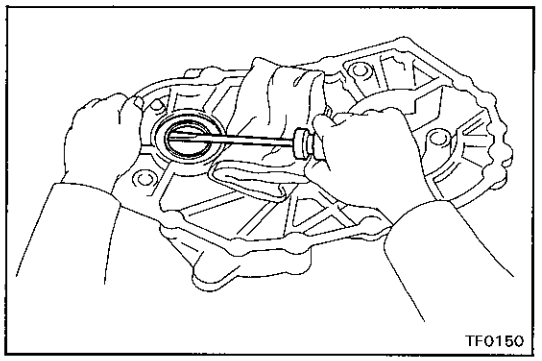
Maximum clearance: 1.0 mm (0.039 in.)



2. **INSPECT FRONT DRIVE CLUTCH HUB SLEEVE**

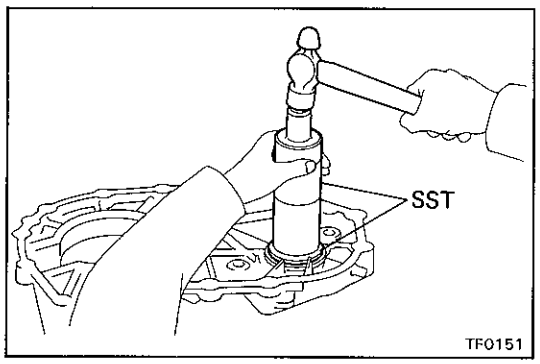
(a) Install the clutch hub sleeve to the front output shaft.

(b) Check that the hub sleeve moves smoothly.



3. **IF NECESSARY, REPLACE TRANSMISSION REAR OIL SEAL**

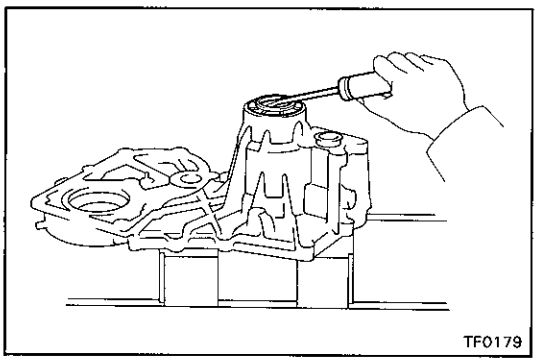
(a) Using a screwdriver, remove the oil seal.



(b) Using SST and a hammer, tap in a new oil seal.

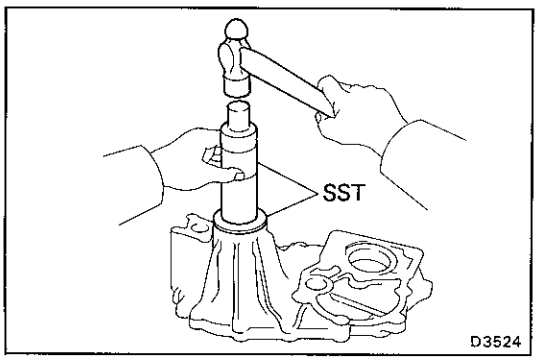
SST 09316-60010 (09316-00010, 09316-00030)

(c) Apply MP grease to the oil seal lip.



4. **IF NECESSARY, REPLACE FRONT OUTPUT SHAFT OIL SEAL**

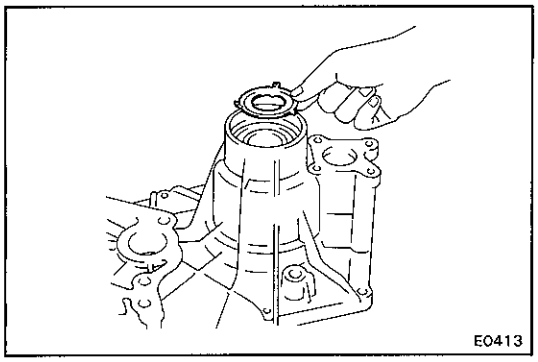
(a) Using a screwdriver, remove the oil seal.



(b) Using SST and a hammer, tap in a new oil seal.

SST 09316-60010 (09316-00010, 09316-00060)

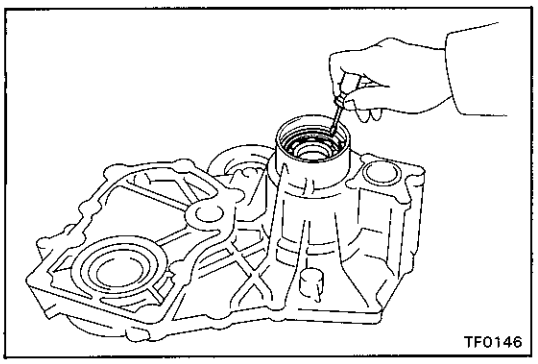
(c) Apply MP grease to the oil seal lip.



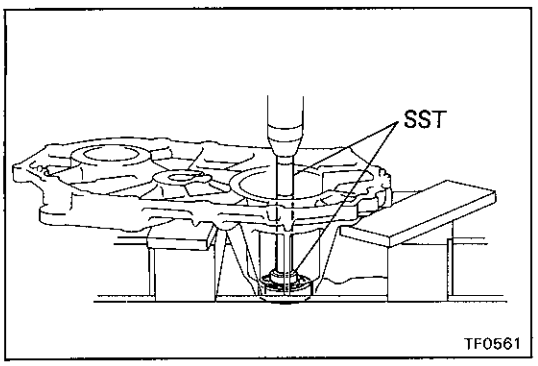
5. IF NECESSARY, REPLACE FRONT OUTPUT SHAFT BEARING

(a) Remove the front output shaft oil seal.

(b) Remove the No.2 oil receiver.

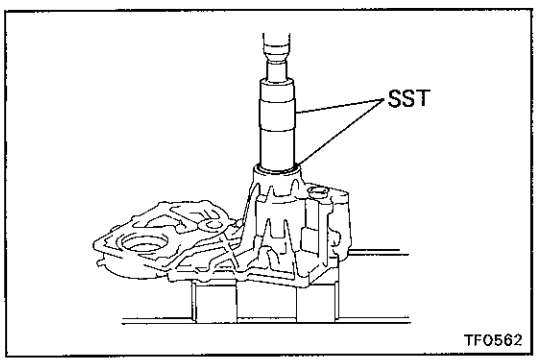


(c) Using a screwdriver, remove the snap ring.



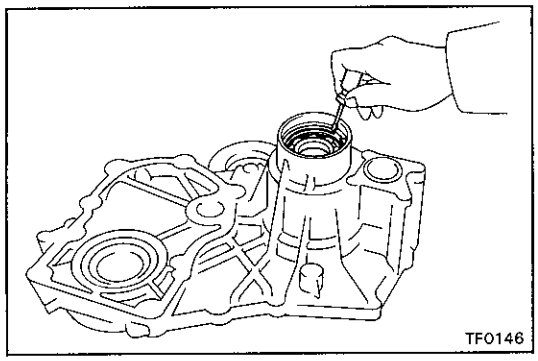
(d) Using SST and a press, press out the bearing.

SST 09608-20012 (09608-00040, 09608-03020)

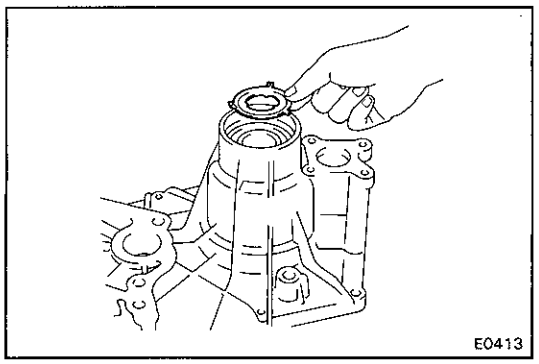


(e) Using SST and a press, press in a new bearing.

SST 09316-60010 (09316-00010, 09316-00020)

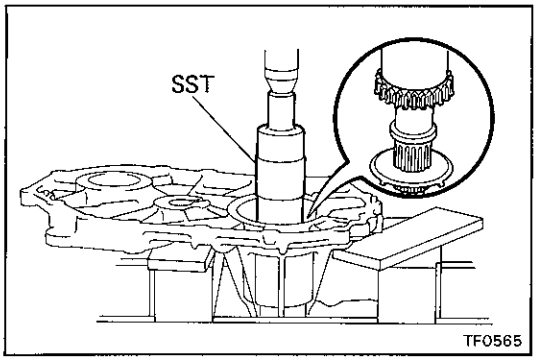


(f) Install the snap ring.



(g) Install the No.2 oil receiver.

(h) Install a new front output shaft oil seal.

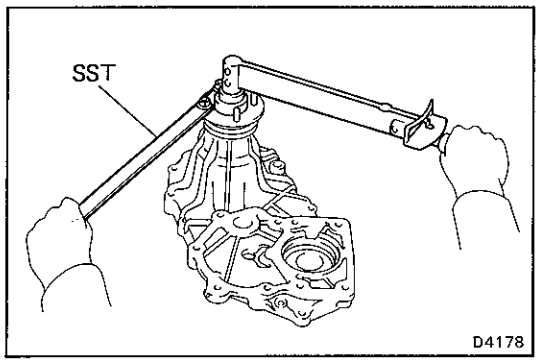


ASSEMBLY OF TRANSFER FRONT CASE

1. INSTALL FRONT OUTPUT SHAFT

Using SST and a press, press in the front output shaft to the transfer front case.

SST 09316-60010 (09316-00010)



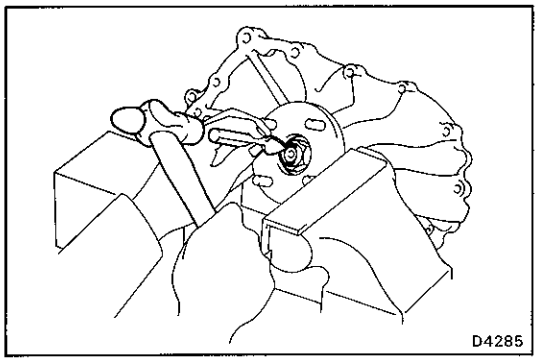
2. INSTALL FRONT COMPANION FLANGE

(a) Install the companion flange and plate washer.

(b) Using SST and two nuts to hold the companion flange, install a new companion flange lock nut.

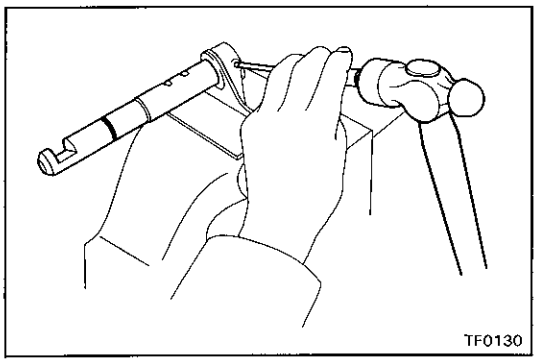
SST 09330-00021

Torque: 1,300 kg-cm (94 ft-lb, 127 N·m)



(c) Mount the companion flange in a vise.

(d) Using a hammer and chisel, stake the companion flange lock nut.



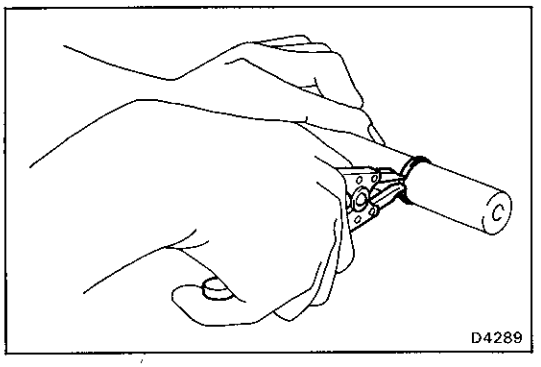
3. INSTALL FRONT DRIVE SHIFT FORK SHAFT

[Direct Shift Type]

(a) Mount the front drive shift fork in a soft jaw vise.

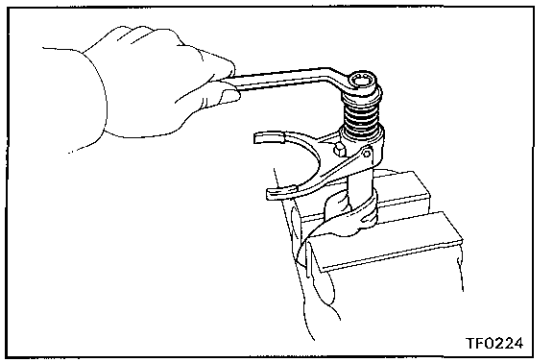
(b) Install the front drive shift fork shaft into shift fork.

(c) Using a pin punch and a hammer, drive in the slotted spring pin.



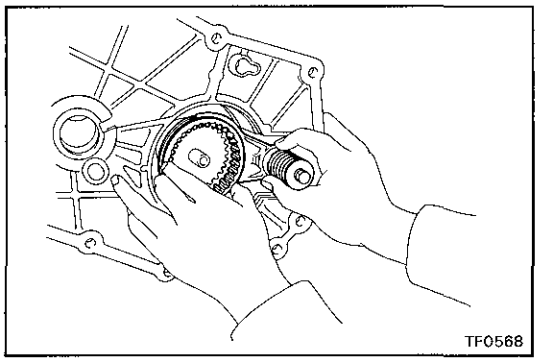
[Vacuum Shift Type]

(a) Using snap ring pliers, install the snap ring.



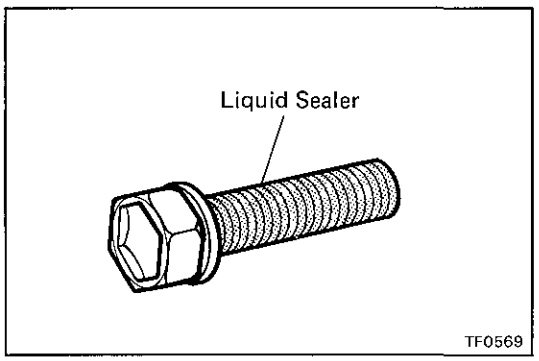
(b) Install the shift fork, spring and plate washer to the shift fork shaft with the bolt.

Torque: 185 kg-cm (13 ft-lb, 18 N·m)



4. INSTALL FRONT DRIVE HUB SLEEVE

Install the hub sleeve with front drive shift fork shaft assembly.

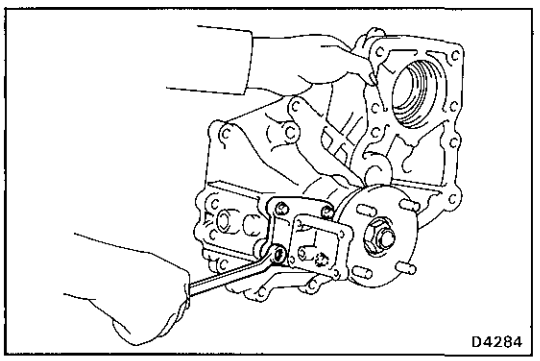


5. (VACCUM SHIFT TYPE)
INSTALL DIAPHRAGM CYLINDER ASSEMBLY

(a) Clean the threads of the bolts and case with cleaner.

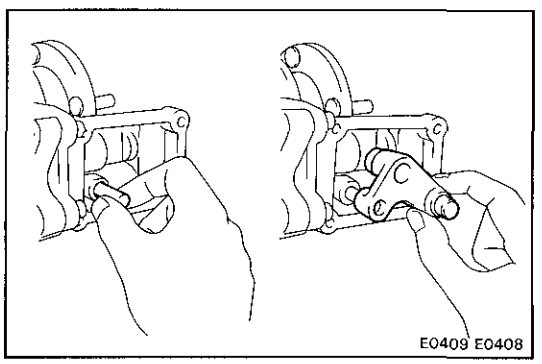
(b) Apply liquid sealer to the bolts threads.

Sealant: Part No.08833-00070, THREE BOND 1324 or equivalent



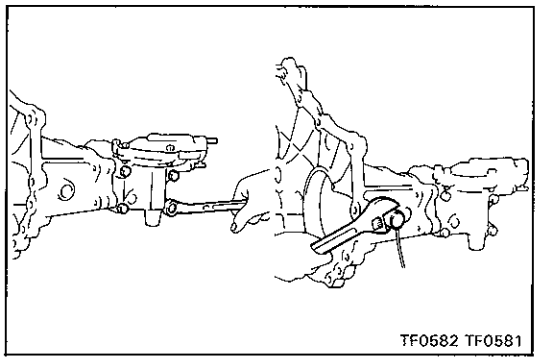
(c) Install a new gasket and the diaphragm cylinder body to the transfer front case with the four bolts.

Torque: 185 kg-cm (13 ft-lb, 18 N·m)



(d) Apply MP grease to the shoe and straight pin.

(e) Install the shift link lever and straight pin.



(f) Install a new gasket and the diaphragm cylinder to the diaphragm cylinder body with the four bolts.

Torque: 185 kg-cm (13 ft-lb, 18 N·m)

6. INSTALL 4WD INDICATOR SWITCH