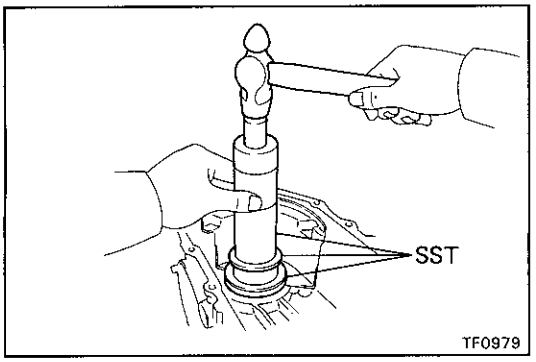
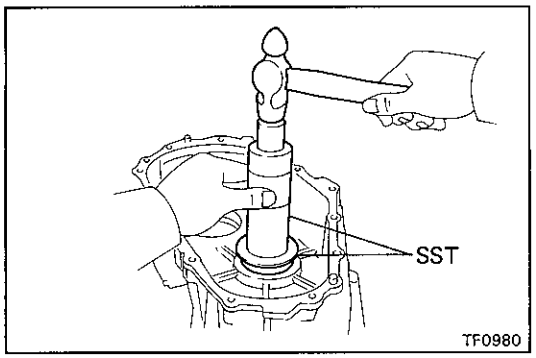


ASSEMBLY OF TRANSFER

1. INSTALL TWO BEARING RACES TO FRONT CASE

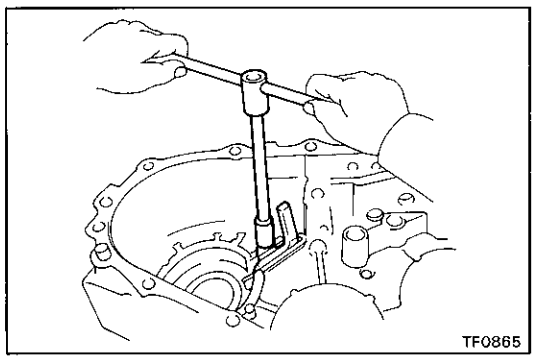
(a) Using SST and a hammer, install the output shaft bearing race.

SST 09316-20011, 09316-60010 (09316-00010, 09316-00030)



(b) Using SST and a hammer, install the idle gear bearing race.

SST 09316-60010 (09316-00010, 09316-00040)

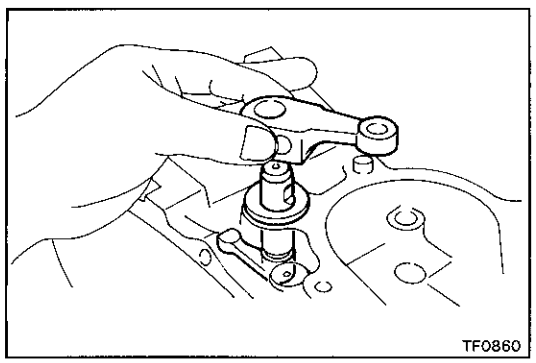


2. INSTALL OIL RECEIVER TO FRONT CASE

(a) Install the oil receiver.

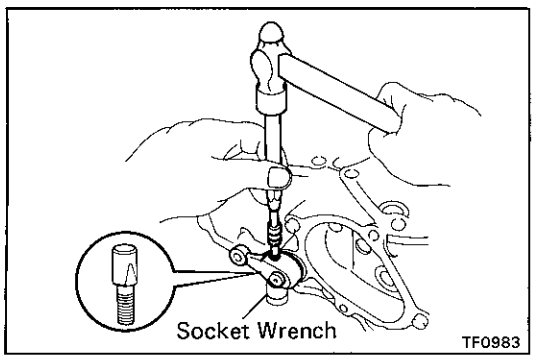
(b) Install and torque the bolt.

Torque: 5.4 N·m (55 kgf·cm, 48 in.·lbf)

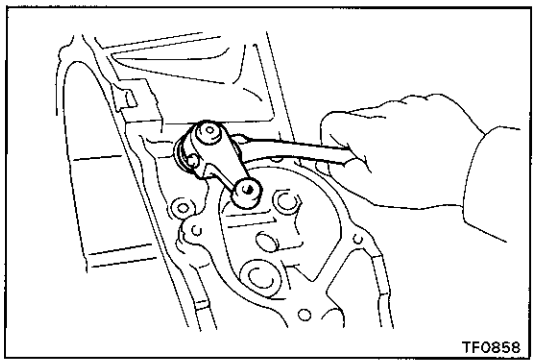


3. INSTALL SHIFT OUTER LEVER AND INNER LEVER

(a) Install the shift outer lever and inner lever.

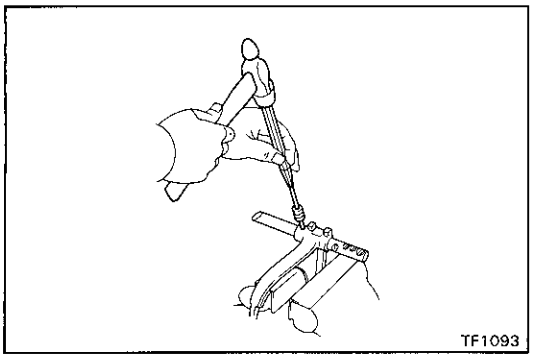


(b) Using a pin punch and a hammer, tap in the lever lock pin.



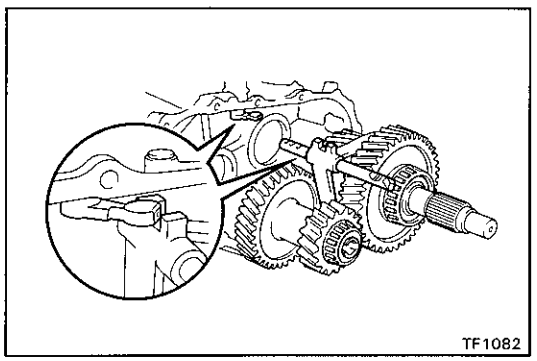
(c) Install the washer and nut.

Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)

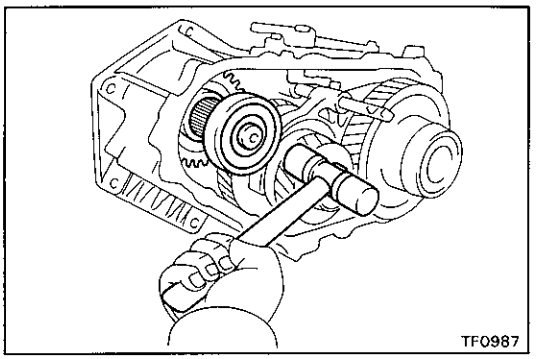


4. ASSEMBLE SHIFT FORK NO.1 AND FORK SHAFT

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

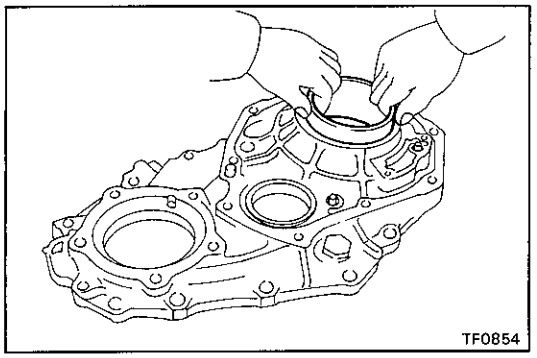


5. INSTALL IDLE GEAR ASSEMBLY, OUTPUT SHAFT ASSEMBLY, SHIFT FORK NO.1 AND FORK SHAFT

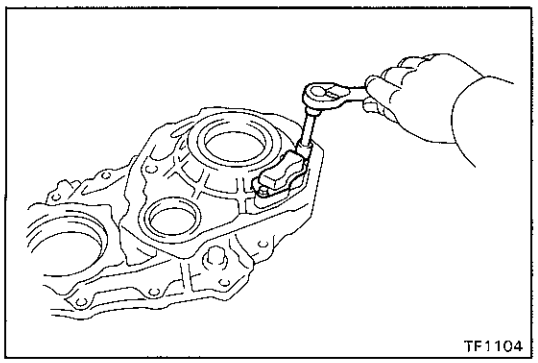


6. INSTALL INPUT SHAFT ASSEMBLY

Using a plastic hammer, tap in the input shaft.



7. INSTALL TWO BEARING RACES FROM REAR CASE

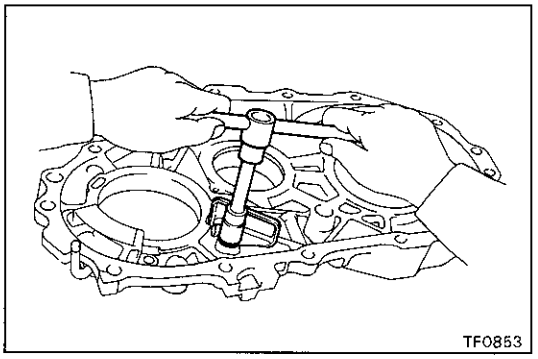

TF1104

8. **INSTALL OIL STRAINER TO REAR CASE**

(a) Install the oil strainer.

(b) Install and torque the bolts.

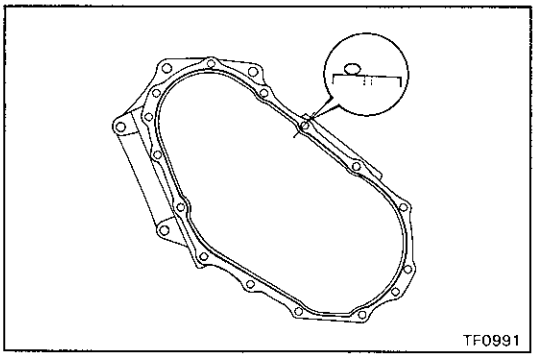
Torque: 4.9 N·m (50 kgf·cm, 43 in.·lbf)


TF0853

9. **INSTALL OIL RECEIVER**

Install the oil receiver with bolt.

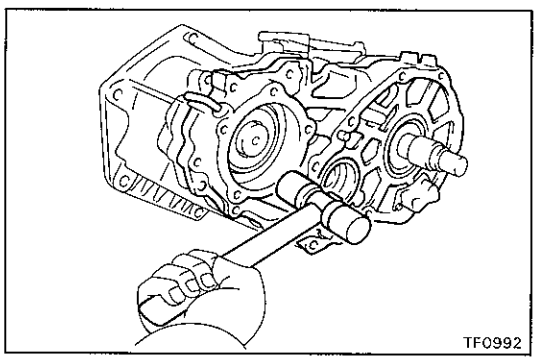
Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)


TF0991

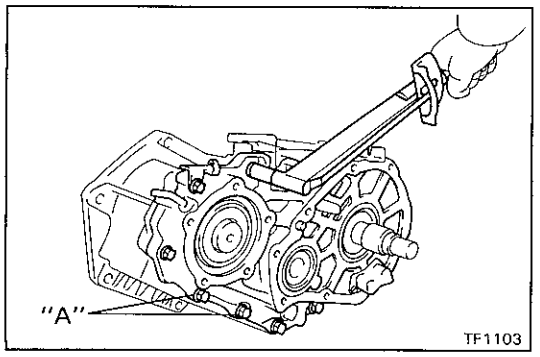
10. **ASSEMBLE FRONT CASE AND REAR CASE**

(a) Apply seal packing to the front case as shown.

Seal packing: Part No.08826-00090, THREE BOND 1281 or equivalent


TF0992

(b) Using a plastic hammer, tap the rear case and assemble it.



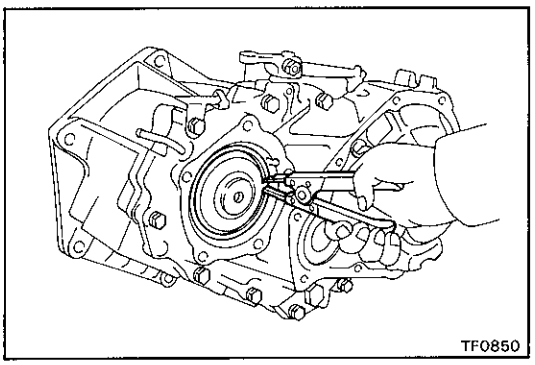
TF1103

(c) Apply liquid sealer to the "A" bolt threads.

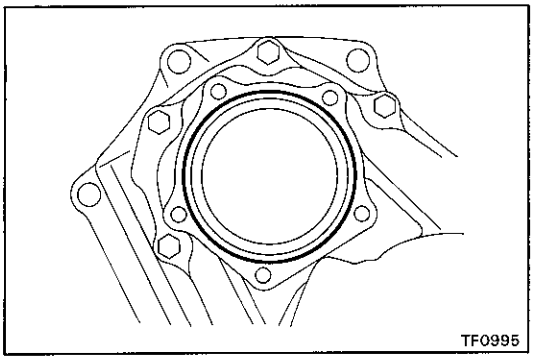
Sealant: Part No.08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent

(d) Install and torque the eight bolts.

Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)



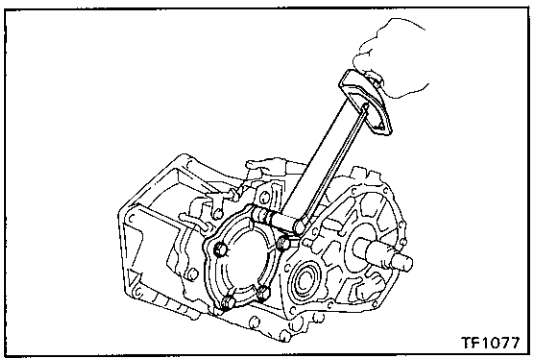
(e) Using snap ring pliers, install the snap ring.



11. INSTALL CASE COVER

(a) Apply seal packing to the rear case as shown.

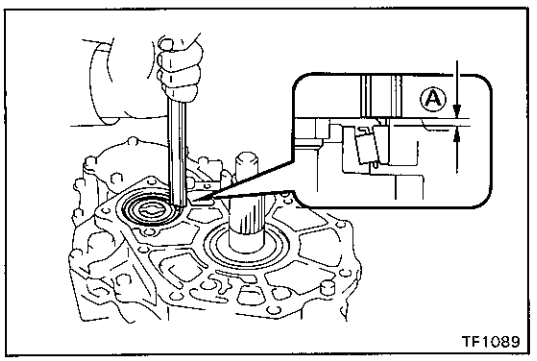
Seal packing: Part No.08826-00090, THREE BOND 1281 or equivalent



(b) Install the case cover.

(c) Install and torque the five bolts.

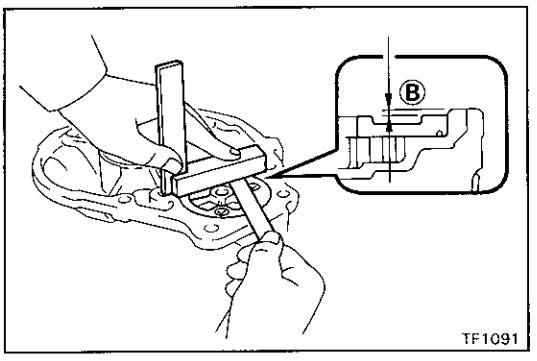
Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)



12. SELECT ADJUSTING SHIMS FOR IDLER GEAR

(a) Using a vernier caliper with depth gauge, measure dimension Ⓐ.

HINT: Lightly hold down the bearing outer race in the thrust direction to eliminate any looseness before making the measurement.



(b) Using a steel straight edge and feeler gauge, measure the clearance of dimension Ⓑ.

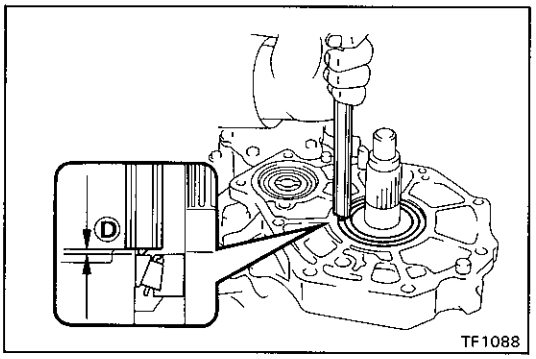
(c) Calculate the required thickness of the adjusting shim.

Thickness: Dimension Ⓐ + Dimension Ⓑ + Ⓒ

Ⓒ 0.02 — 0.07 mm (0.0008 — 0.0028 in.)

(d) From the following table, select a shim with a thickness fitting within the range of the calculation in (c).

Mark	Thickness mm (in.)	Mark	Thickness mm (in.)
A	0.15 (0.0059)	G	3.00 (0.1181)
B	0.30 (0.0118)	H	3.20 (0.1260)
C	0.45 (0.0177)	J	3.40 (0.1339)
D	2.40 (0.0945)	K	3.60 (0.1417)
E	2.60 (0.1024)	L	3.80 (0.1496)
F	2.80 (0.1102)	M	4.00 (0.1575)



13. SELECT ADJUSTING SHIMS FOR OUTPUT SHAFT TAPER ROLLER BEARING

(a) Using a vernier caliper with depth gauge, measure dimension Ⓓ.

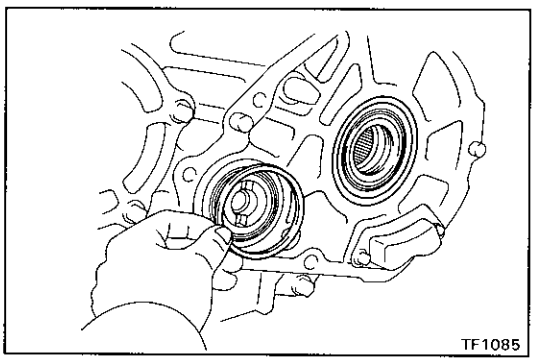
HINT: Lightly hold down the bearing outer race in the thrust direction to eliminate any looseness before making the measurement.

Thickness: Dimension Ⓓ + Ⓔ

Ⓔ 0.04 — 0.09 mm (0.0016 — 0.0035 in.)

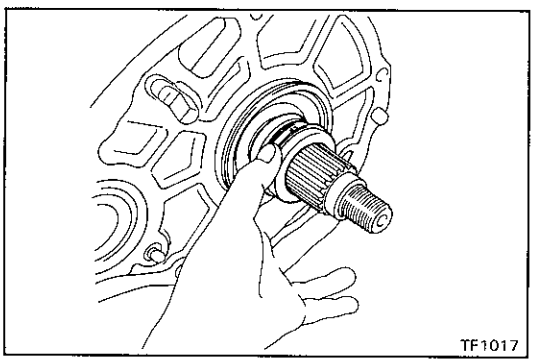
(b) From the following table, select a shim with a thickness fitting within the range of the calculation in (a).

Mark	Thickness mm (in.)	Mark	Thickness mm (in.)
A	0.15 (0.0059)	G	1.60 (0.0630)
B	0.30 (0.0118)	H	1.80 (0.0709)
C	0.45 (0.0177)	J	2.00 (0.0787)
D	1.00 (0.0394)	K	2.20 (0.0866)
E	1.20 (0.0472)	L	2.40 (0.0945)
F	1.40 (0.0551)	M	2.60 (0.1024)



14. INSTALL SHIMS

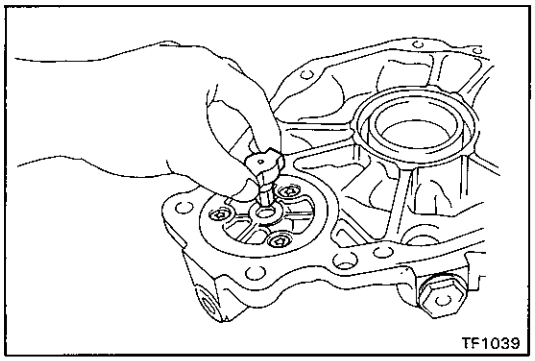
Apply MP grease to the reuse shims.



15. INSTALL BALL AND SPACER NO.1

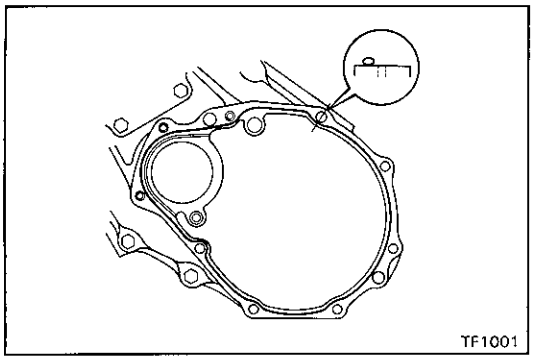
(a) Apply MP grease to the ball.

(b) Install the ball and spacer No.1.


TF1039

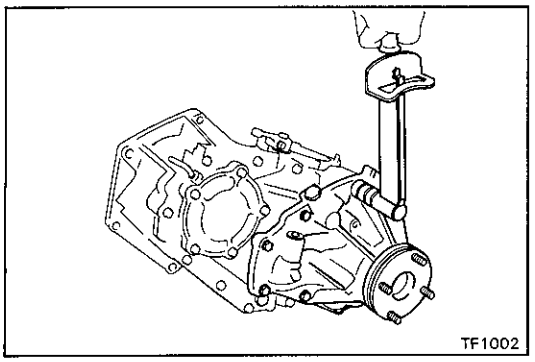
16. INSTALL REAR EXTENSION HOUSING

(a) Install the oil pump drive shaft.


TF1001

(b) Apply seal packing to the rear case as shown.

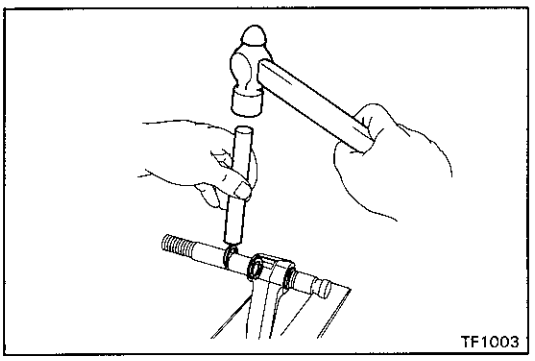
Seal packing: Part No.08826-00090, THREE BOND 1281 or equivalent


TF1002

(c) Install rear extension housing.

(d) Install and torque the eight bolts.

Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)

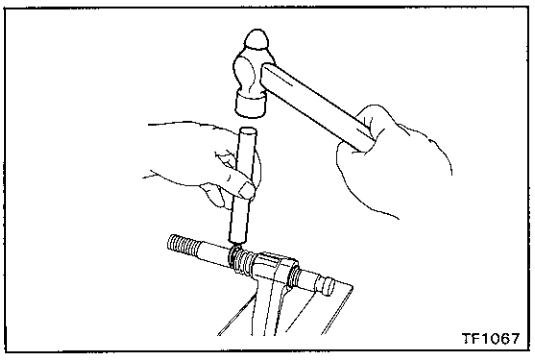

TF1003

17. ASSEMBLE SHIFT FORK NO.2 AND FORK SHAFT

(Motor shift type)

(a) Assemble the shift fork No.2 and fork shaft.

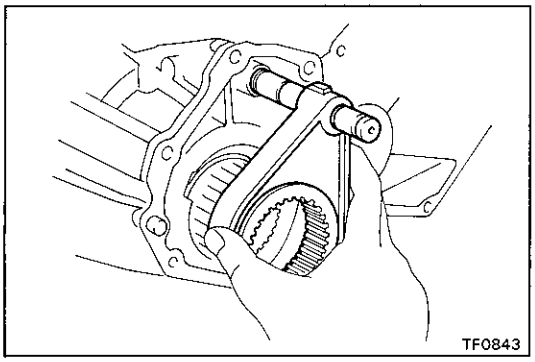
(b) Using a brass bar and hammer, tap in the snap ring.


TF1067

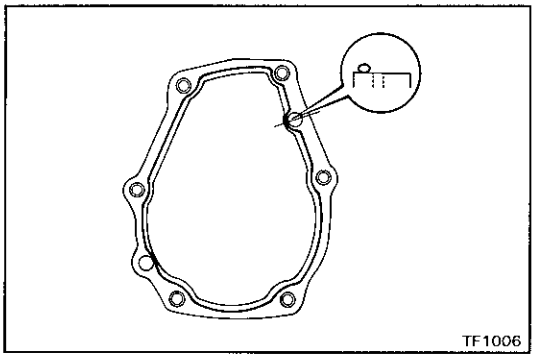
(Direct shift type)

(a) Assemble the shift fork No.2, fork shaft and spring.

(b) Using a brass bar and hammer, tap in the snap ring.



18. INSTALL CLUTCH SLEEVE, SHIFT FORK NO.2 AND FORK SHAFT



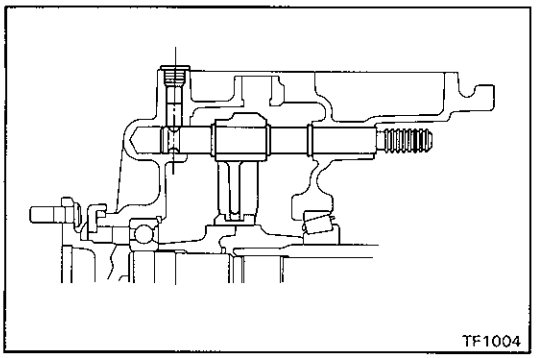
19. INSTALL FRONT EXTENSION HOUSING

(a) Remove any packing material and be careful not to drop oil on the contacting surfaces of the front case.

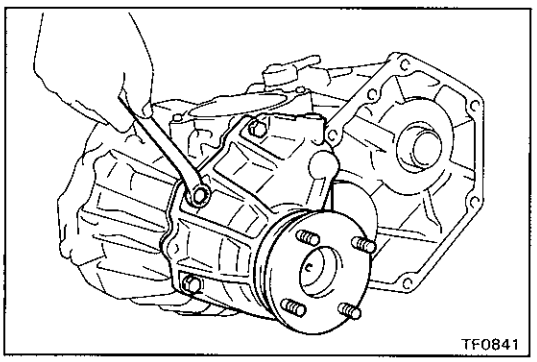
(b) Apply seal packing to the front case as shown.

Seal packing: Part No.08826-00090, THREE BOND 1281 or equivalent

HINT: Install the front extension housing as soon as the seal packing is applied.

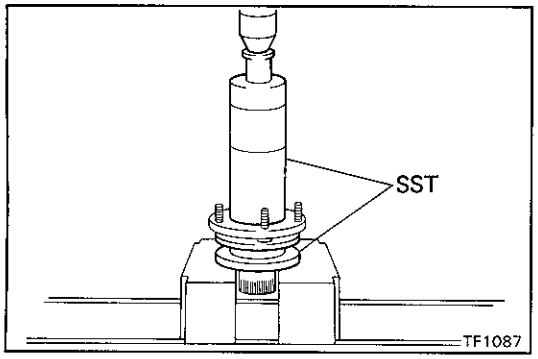


(c) Set the clutch sleeve in 4WD condition, install the front extension housing.



(d) Install and torque the six bolts.

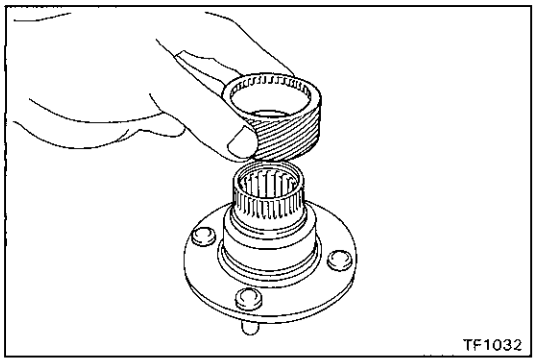
Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)



20. INSTALL DUST DEFLECTOR

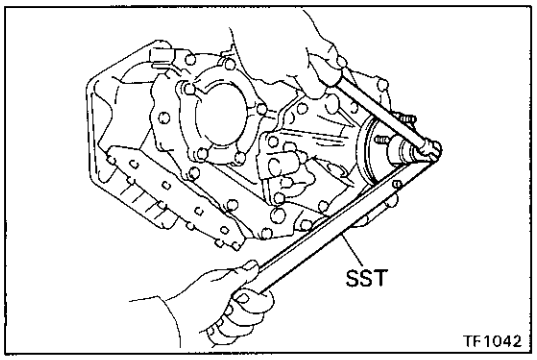
Using SST and a press, install the dust deflector.

SST 09316-20011, 09316-60010 (09316-00010)


TF1032

21. INSTALL OUTPUT SHAFT COMPANION FLANGE

(a) Install the speedometer drive gear to the output shaft companion flange.

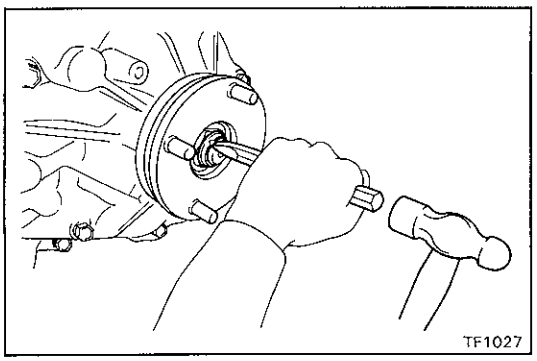


TF1042

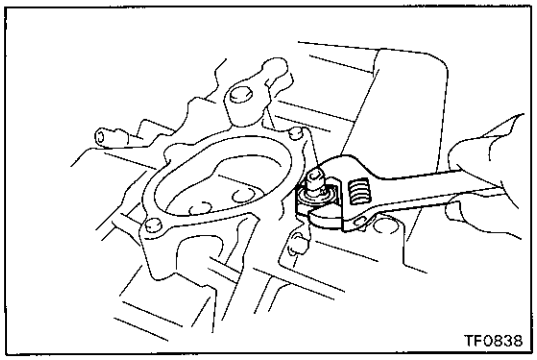
(b) Install the output shaft companion flange.

(c) Install and torque the nut.

Torque: 128 N·m (1,300 kgf·cm, 94 ft·lbf)


TF1027

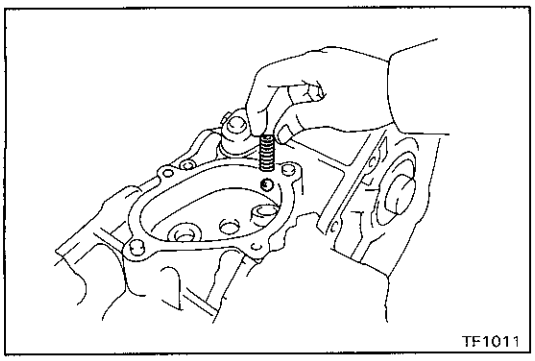
(d) Stake the nut.


TF0838

22. INSTALL 4WD INDICATOR SWITCH

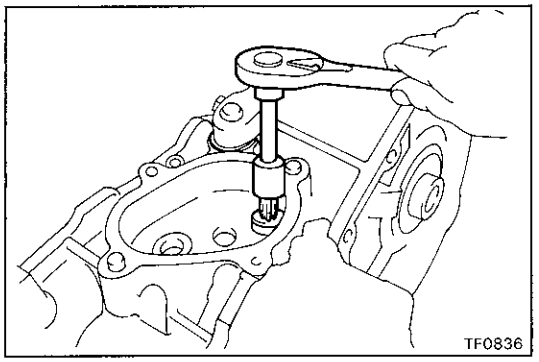
Install and torque the transfer indicator switch.

Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)


TF1011

23. INSTALL BALL, SPRING AND SCREW PLUG

(a) Install the ball and spring.

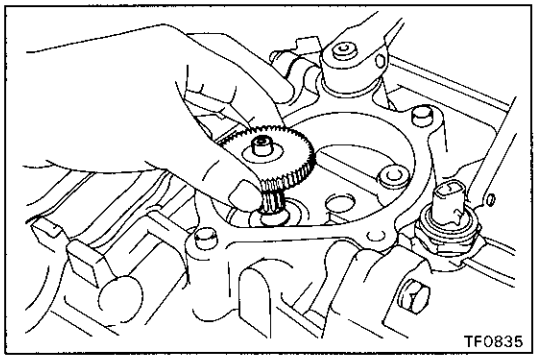


(b) Apply liquid sealer to the screw plug.

Sealant: Part No.08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent

(c) Install and torque the screw plug.

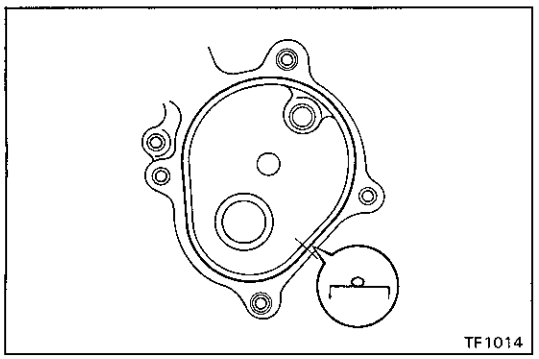
Torque: 19 N·m (190 kgf·cm, 14 ft·lbf)



24. (MOTOR SHIFT TYPE) INSTALL OUTPUT GEAR

(a) Coat the gear oil as shown.

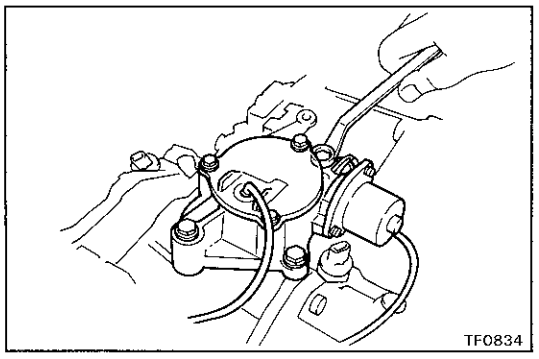
(b) Install the output gear.



25. (MOTOR SHIFT TYPE) INSTALL MOTOR ACTUATOR

(a) Apply seal packing to the front case as shown.

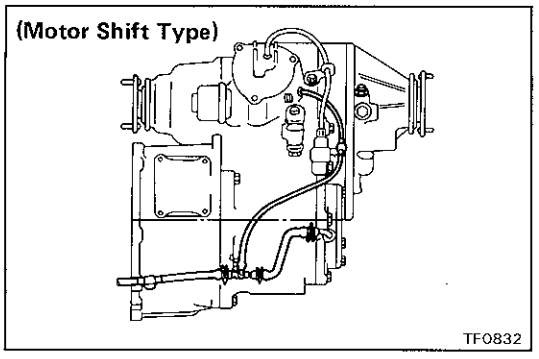
Seal packing: Part No.08826-00090,THREE BOND 1281 or equivalent



(b) Install the motor actuator.

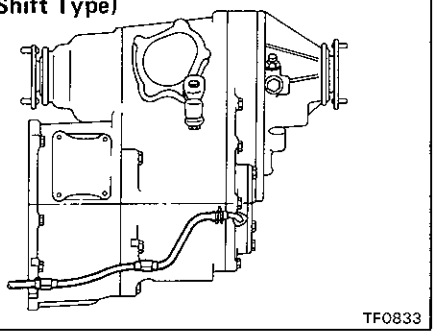
(c) Install and torque the four bolts.

Torque: 19 N·m (190 kgf·cm, 14 ft·lbf)



26. INSTALL BREATHER HOSE

(Direct Shift Type)



TF0833