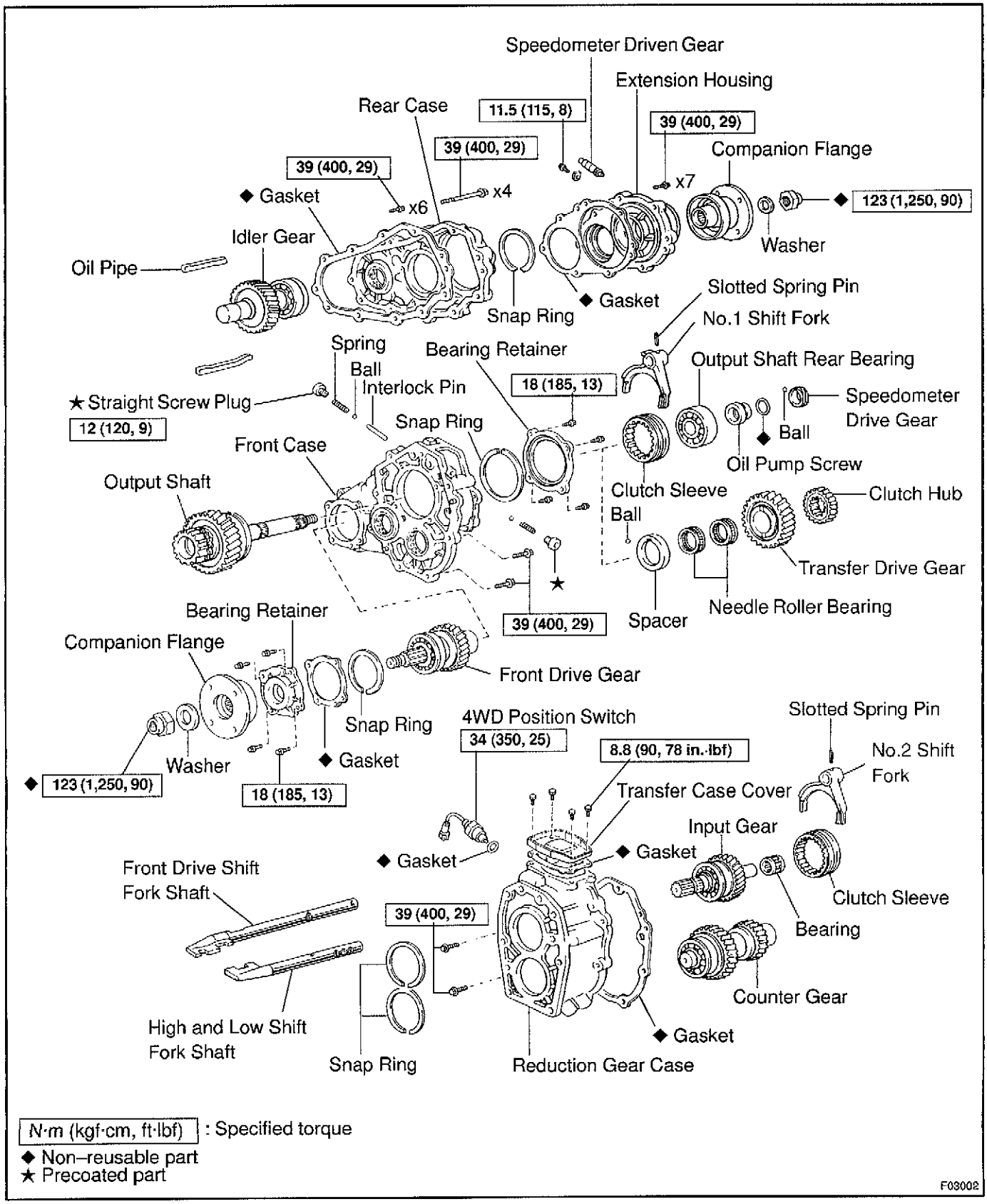
# TRANSFER ASSEMBLY

## COMPONENTS

TR023-01




N·m (kgf·cm, ft·lbf) : Specified torque
◆ Non–reusable part
★ Precoated part

F03002

TR02H-01

# DISASSEMBLY

**1. REMOVE SPEEDOMETER DRIVEN GEAR**

Remove the bolt, lock plate and driven gear.

**Torque: 11.5 N·m (115 kgf·cm, 8 ft·lbf)**

**2. REMOVE 4WD POSITION SWITCH**

Remove the switch and gasket.

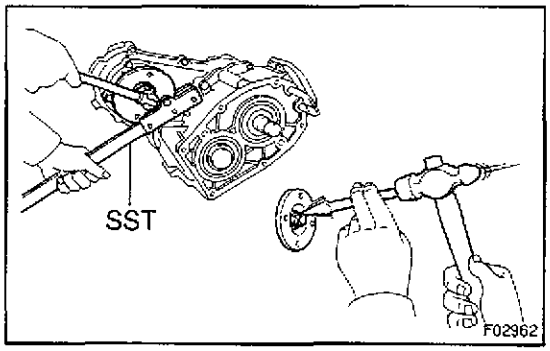
**Torque: 34 N·m (350 kgf·cm, 25 ft·lbf)**

HINT:

At the time of installation, check the following items.

- Install a new gasket.
- The input shaft and output shaft rotate smoothly.
- Shifting can be made smoothly to all positions.






**3. REMOVE FRONT COMPANION FLANGE**

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

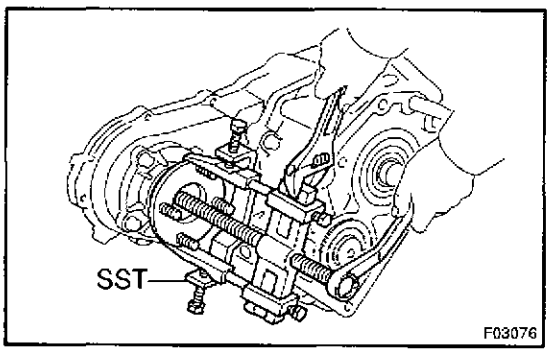
HINT:

At the time of installation, stake a new lock nut.

(b) Using SST to hold the flange, remove the companion flange lock nut and washer.

SST 09330–00021

**Torque: 123 N·m (1,250 kgf·cm, 90 ft·lbf)**

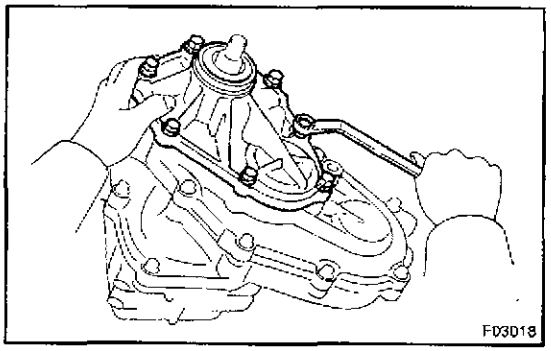



(c) Using SST, remove the companion flange.

SST 09950–40010 (09951–04020, 09952–04010, 09953–04030, 09954–04010, 09955–04010, 09958–04010)

**4. REMOVE REAR COMPANION FLANGE**

Remove the rear companion flange in the same way as the front companion flange.




**5. REMOVE EXTENSION HOUSING**

(a) Remove the 7 bolts.

**Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)**

HINT:

At the time of installation, apply liquid sealer to the bolts.

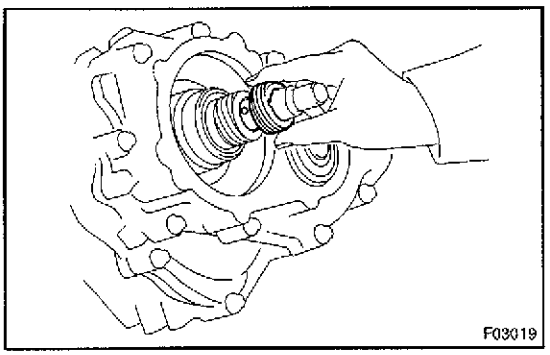
**Sealant:**
**Part No.08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent**

(b) Using a plastic hammer, tap the extension housing and remove it.

(c) Remove the gasket.

HINT:

At the time of installation, install a new gasket.




**6. REMOVE SPEEDOMETER DRIVE GEAR, BALL, OIL PUMP SCREW AND OUTPUT SHAFT REAR BEARING**

(a) Remove the speedometer drive gear.

HINT:

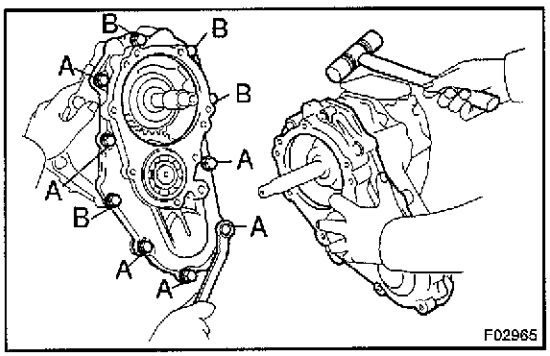
At the time of installation, please refer to the following item.

Make sure to install the drive gear in the correct direction.

(b) Using a magnetic finger, remove the ball from the rear output shaft.

(c) Remove the oil pump screw and bearing.






**7. REMOVE REAR CASE WITH IDLER GEAR**

(a) Remove the 10 bolts.

**Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)**

HINT:

Each bolt length is indicated below.

**Bolt length:**

**A: 47 mm (1.85 in.)**

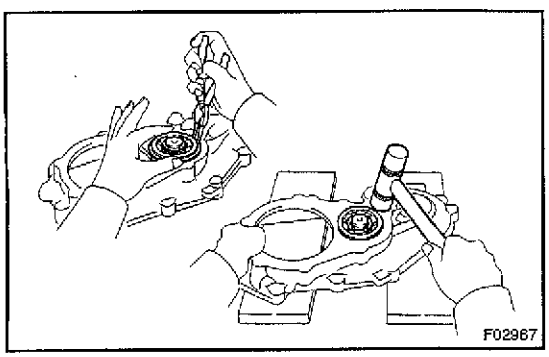
**B: 112 mm (4.41 in.)**

(b) Using a plastic hammer, tap the rear case and remove it with the idler gear.

(c) Remove the gasket.

HINT:

At the time of installation, install a new gasket.



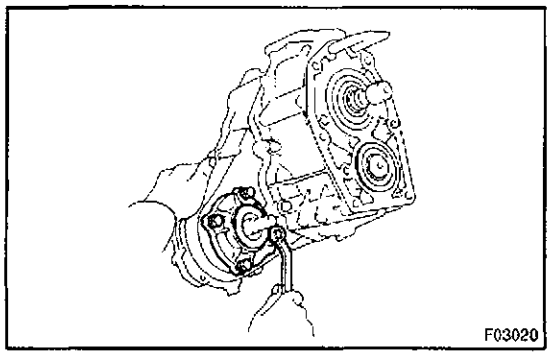

**8. REMOVE IDLER GEAR FROM REAR CASE**

(a) Using a snap ring expander, remove the snap ring.

(b) Using a plastic hammer, tap out the idler gear from the rear case.

HINT:

Place the rear case on something soft such as wooden blocks.



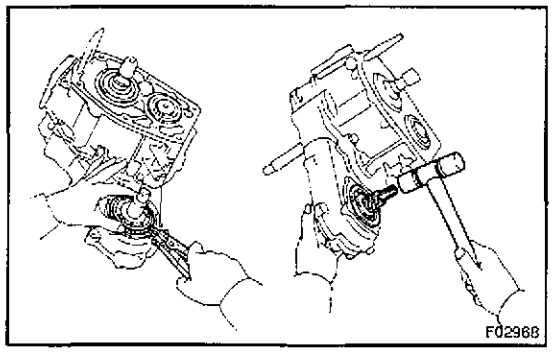

**9. REMOVE BEARING RETAINER**

Remove the 4 bolts, bearing retainer and gasket.

**Torque: 18 N·m (185 kgf-cm, 13 ft·lbf)**

HINT:

At the time of installation, install a new gasket.

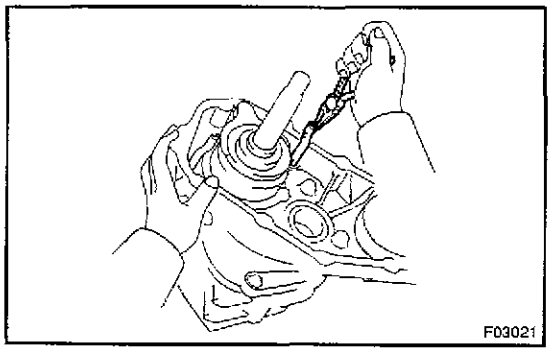



**10. REMOVE FRONT DRIVE GEAR**

(a) Using a snap ring expander, remove the snap ring.

(b) Using a plastic hammer, tap out the front drive gear from the front case.



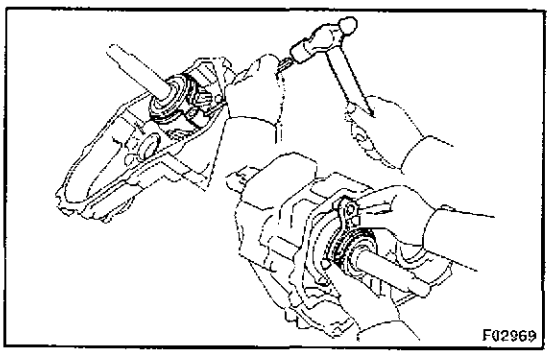



**11. REMOVE 2 OIL PIPES**

Using pliers, remove the 2 oil pipes.

HINT:

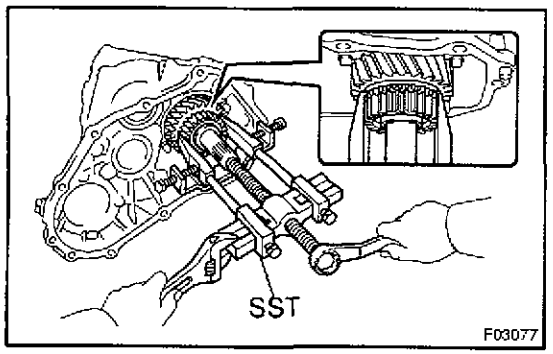
At the time of installation, install the oil pipes with the cutout side positioned outward.




**12. REMOVE NO.1 SHIFT FORK AND CLUTCH SLEEVE**

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

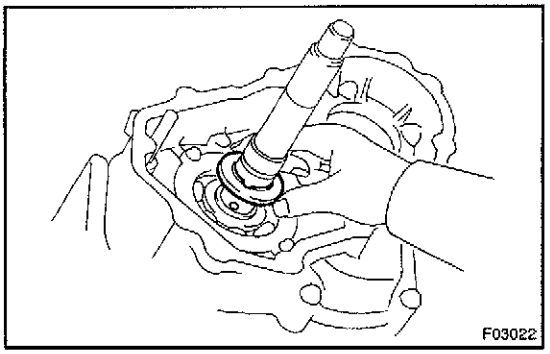
(b) Remove the No.1 shift fork and clutch sleeve.



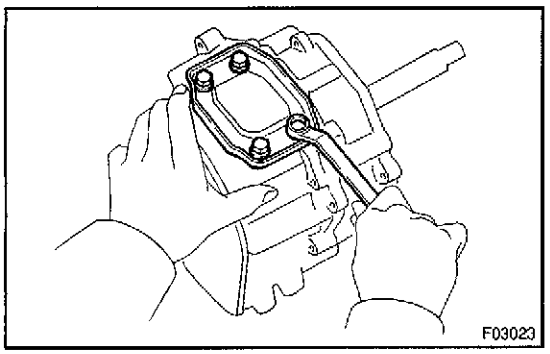

**13. REMOVE CLUTCH HUB AND TRANSFER DRIVE GEAR**

Using SST, remove the clutch hub and transfer drive gear.

SST 09950–40010 (09951–04020, 09952–04010, 09953–04030, 09954–04020, 09955–04010, 09958–04010)




**14. REMOVE 2 NEEDLE ROLLER BEARINGS, SPACER AND BALL**




**15. REMOVE TRANSFER CASE COVER**

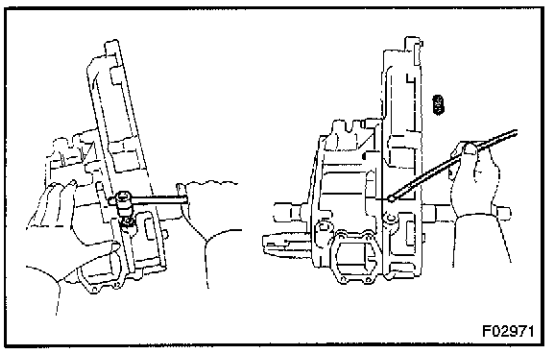
Remove the 4 bolts, transfer case cover and gasket.

**Torque: 8.8 N·m (90 kgf·cm, 78 in.·lbf)**

HINT:

At the time of installation, install a new gasket.

TR




**16. REMOVE 2 STRAIGHT SCREW PLUGS, SPRINGS AND LOCKING BALLS**

(a) Using a hexagon wrench, remove the plug on the right side.

**Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)**

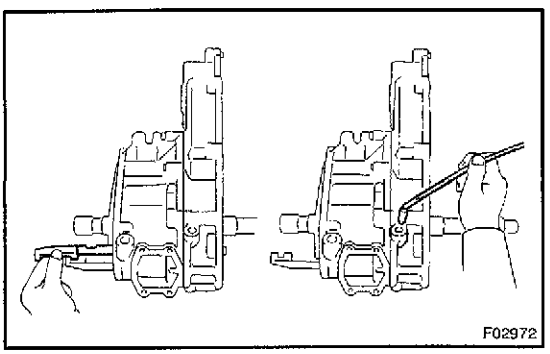
HINT:

At the time of installation, apply liquid sealer to the plug.

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

(b) Using a magnetic finger, remove the spring and ball from the right side.

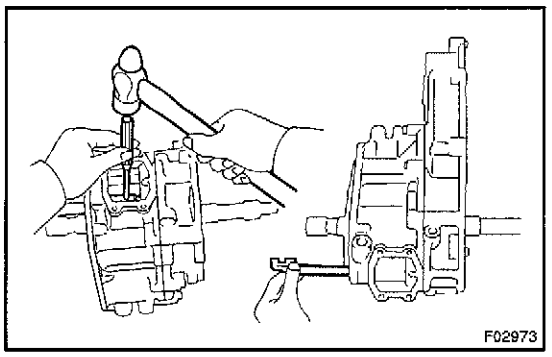
(c) Remove the plug, spring and ball on the left side in the same procedure above.




**17. REMOVE FRONT DRIVE SHIFT FORK SHAFT**

**18. REMOVE INTERLOCK PIN**

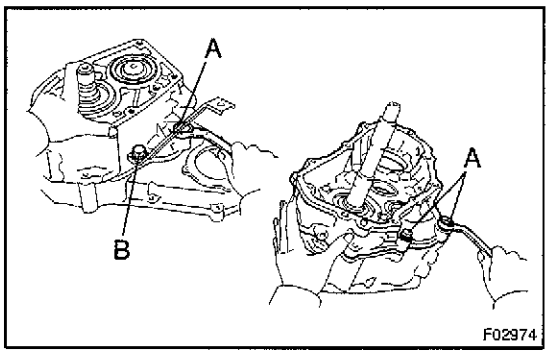
Using a magnetic finger, remove the pin.




**19. REMOVE HIGH AND LOW SHIFT FORK SHAFT**

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

(b) Remove the fork shaft.




**20. REMOVE FRONT CASE**

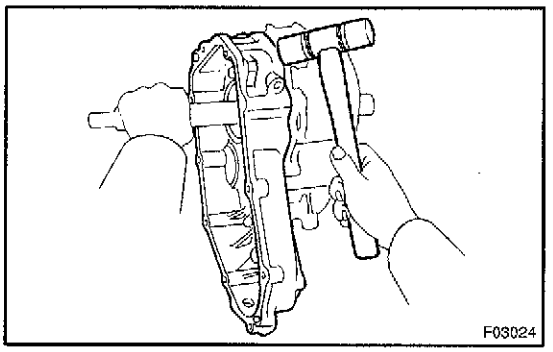
(a) Remove the 4 bolts.

**Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)**

HINT:

Each bolt length is indicated below.

**Bolt length:**
**A: 47 mm (1.85 in.)**
**B: 49 mm (1.93 in.)**

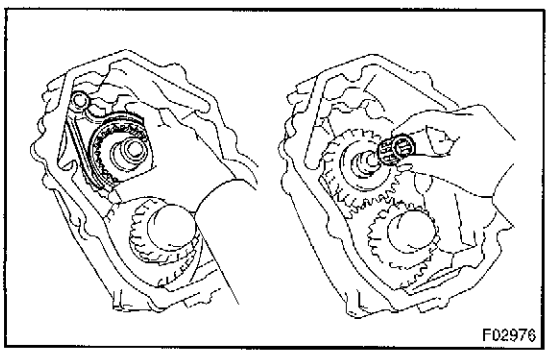



(b) Using a plastic hammer, remove the front case with the output shaft.

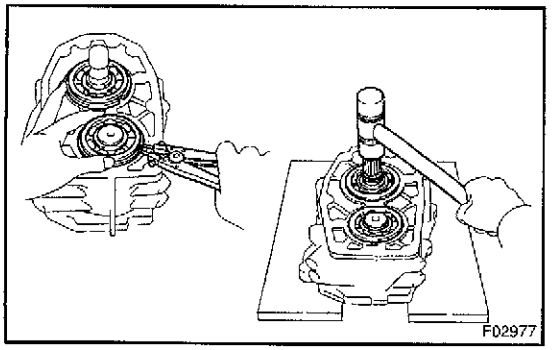
(c) Remove the gasket.

HINT:

At the time of installation, install a new gasket.




**21. REMOVE NO.2 SHIFT FORK, CLUTCH SLEEVE AND NEEDLE ROLLER BEARING FROM INPUT GEAR SHAFT**



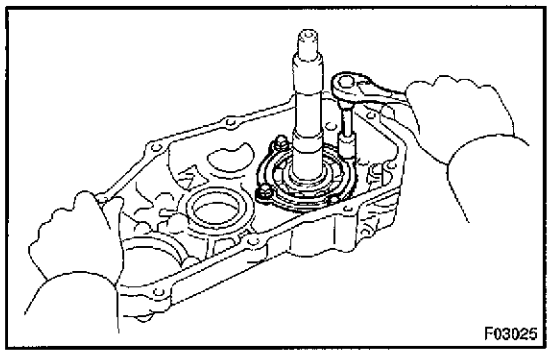

**22. REMOVE INPUT GEAR AND COUNTER GEAR FROM REDUCTION GEAR CASE**

(a) Using a snap ring expander, remove the 2 snap rings.

(b) Using a plastic hammer, tap out the input gear and counter gear from the reduction gear case.

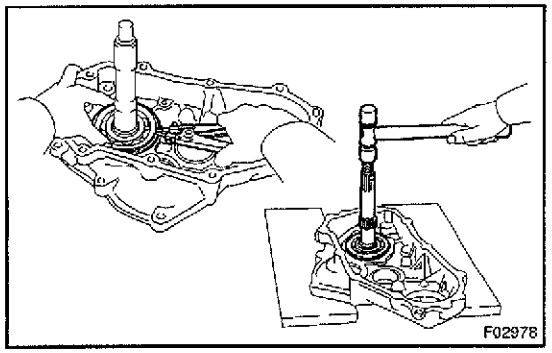
HINT:

Place the reduction gear case on something soft such as wooden blocks.



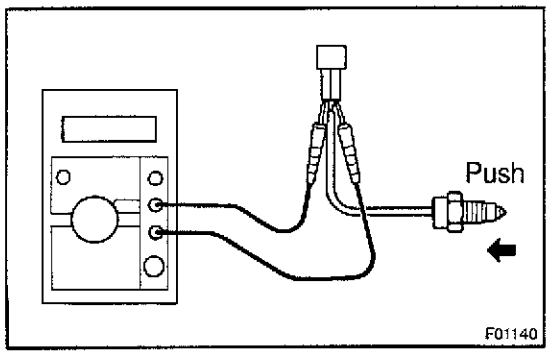

**23. REMOVE OUTPUT SHAFT FROM FRONT CASE**

(a) Remove the 4 bolts and bearing retainer.
**Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)**




(b) Using a snap ring expander, remove the snap ring.
(c) Using a plastic hammer, tap out the output shaft from the front case.

HINT:
Place the front case on something soft such as wooden blocks.




**24. INSPECT SWITCHES**

Check that continuity exists between terminals as shown.

| Switch Position | Specified Condition |
|---|---|
| Push | Continuity |
| Free | No continuity |

If operation is not as specified, replace the switch.

# REASSEMBLY

**Reassembly is in the reverse order of disassembly (See page TR–7).**

HINT:

Coat all of the sliding and rotating surfaces with gear oil before assembly.