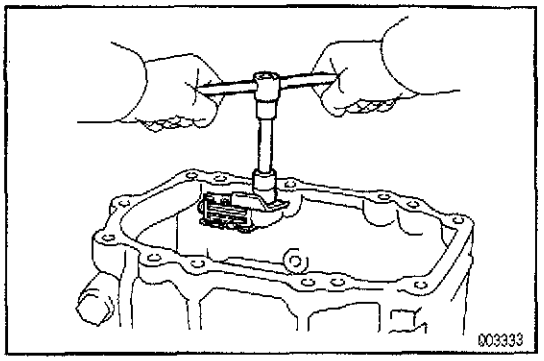


COMPONENT PARTS INSTALLATION

MT05Y-01

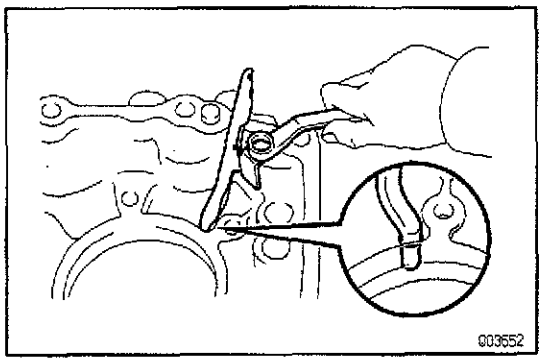
BASIC SUBASSEMBLY REASSEMBLY

(See pages MT–32 and MT–33)

HINT: Coat all of the sliding and rotating surface with gear oil before assembly.

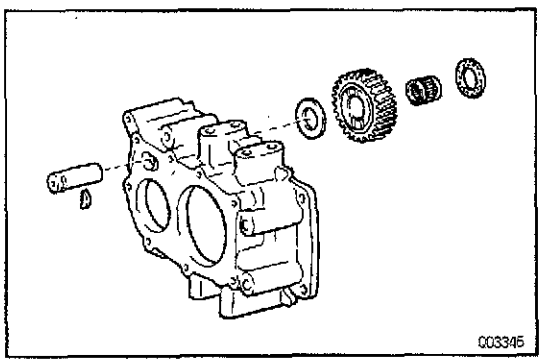
1. INSTALL MAGNET TO FRONT CASE

Torque: 12 N·m (120 kgf·cm, 7 ft·lbf)



2. INSTALL OIL RECEIVER PIPE TO REAR CASE

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

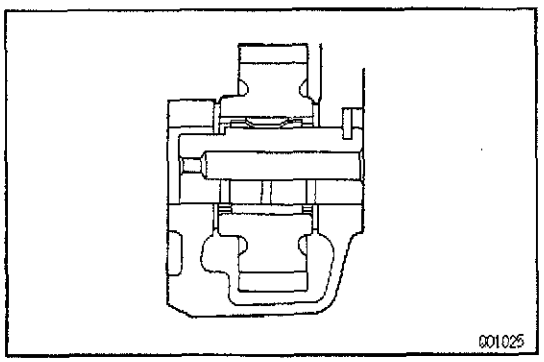


3. INSTALL REVERSE IDLER GEAR AND SHAFT

(a) Apply MP grease to the thrust washers.

(b) Install the reverse idler gear and thrust washers.

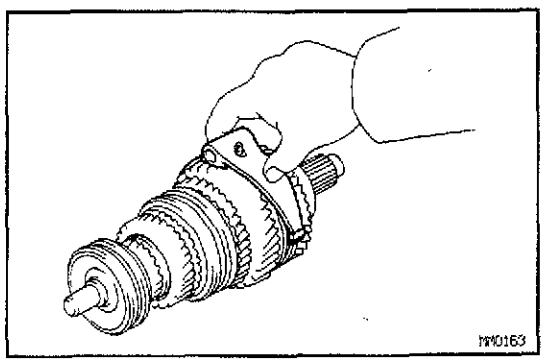
HINT: Be sure that protruding part of washer fits in the case groove.



HINT:

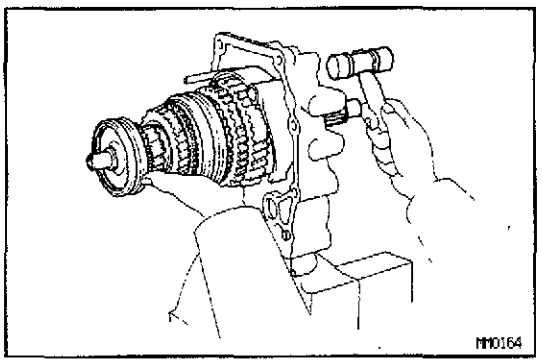
- Make sure that the dimpled surface of both washers face the reverse idler gear.
- Make sure that the protruding part of the rear washer fits in the case groove.

(c) Install the shaft with the woodruff key through the gear.

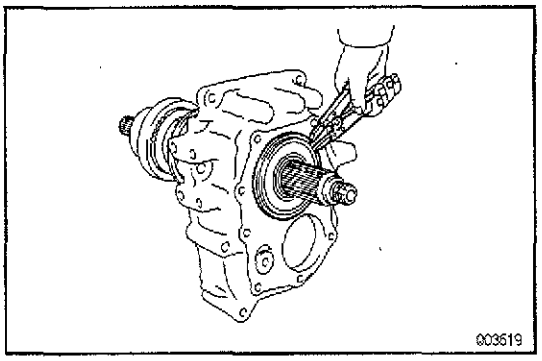


4. INSTALL OUTPUT SHAFT TO REAR CASE

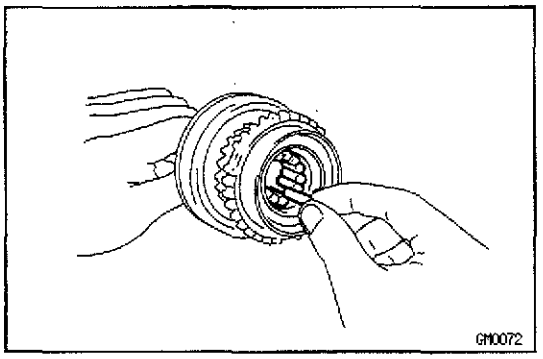
(a) Place the No.1 shift fork into the groove of No.1 hub sleeve.



(b) Install the output shaft into the rear case by pushing *on the output shaft and tapping on the rear case.*

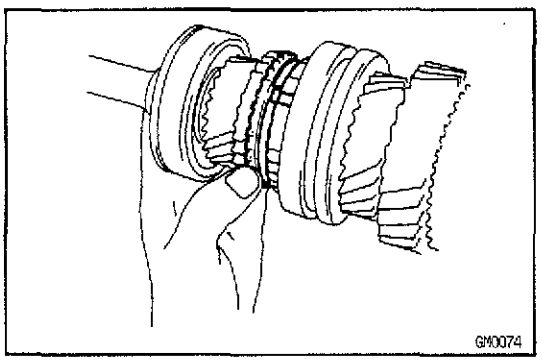


(c) Using a snap ring expander, install the snap ring.

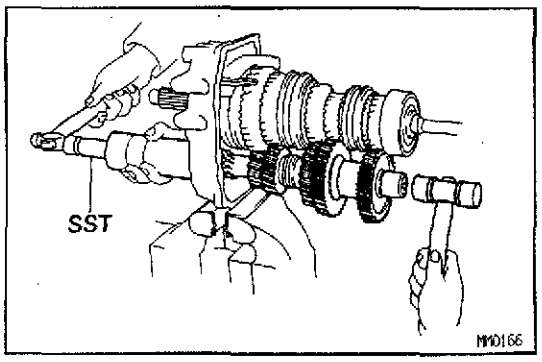


5. INSTALL INPUT SHAFT

(a) Apply MP grease to the 10 needle roller bearings and install them into the input shaft.



(b) Install the input shaft to the output shaft with the synchronizer ring slots aligned with the shifting keys.



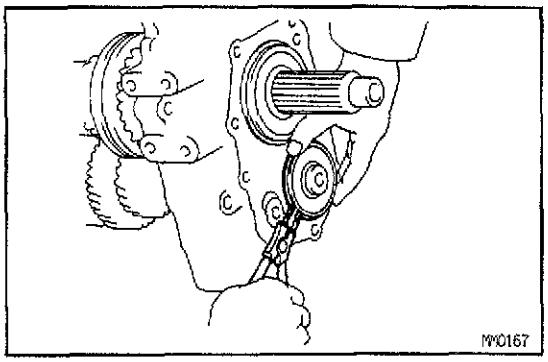
6. INSTALL COUNTER GEAR

(a) Install the counter gear into the rear case while holding the counter gear, and install the counter rear bearing with SST.

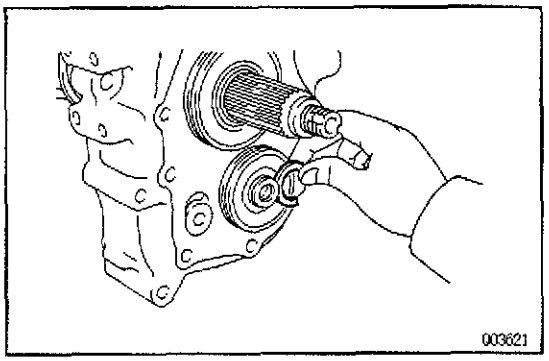
SST 09316–60010 (09316–00010, 09316–00030)

HINT: When installing the rear bearing, support the counter gear in front with a 3–5 lb hammer or equivalent.

Ensure that the output shaft and counter gear do not strike against each other.



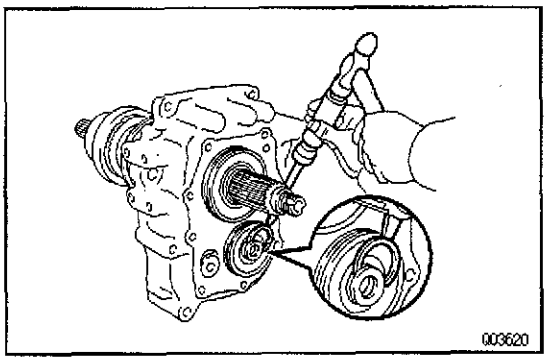
(b) Using a snap ring expander, install the snap ring.



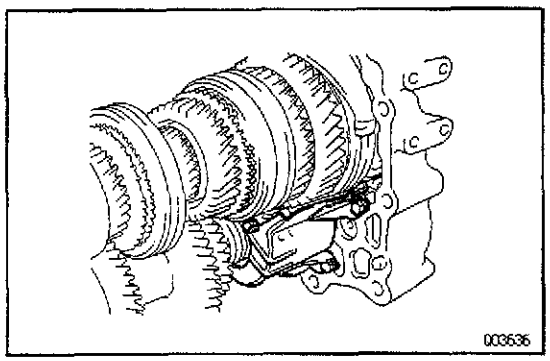
7. INSTALL SNAP RINGS

(a) Select a snap ring that will allow minimum axial play.

Mark	Thickness mm (in.)
0	1.95–2.00 (0.0768–0.0787)
1	2.00–2.05 (0.0787–0.0807)
2	2.05–2.10 (0.0807–0.0827)
3	2.10–2.15 (0.0827–0.0846)
4	2.15–2.20 (0.0846–0.0866)
5	2.20–2.25 (0.0866–0.0886)



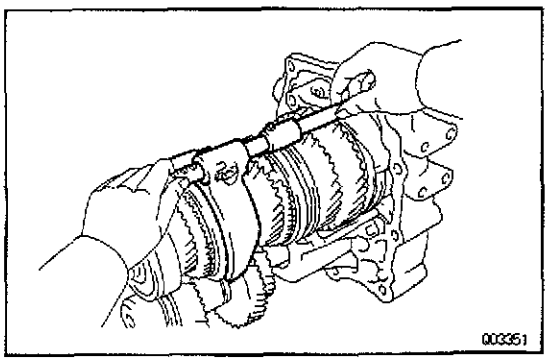
(b) Using a screwdriver and hammer, install the snap ring.



8. INSTALL OIL RECEIVER

Install the oil receiver with the 3 bolts.

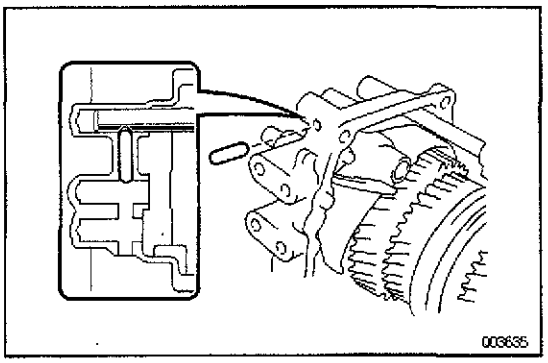
Torque: 25 N·m (260 kgf·cm, 19 ft·lbf)



9. INSTALL NO.3 SHIFT FORK SHAFT, SHIFT FORK AND SHIFT HEAD

(a) Place the No.3 shift fork into the groove of the No.3 hub sleeve.

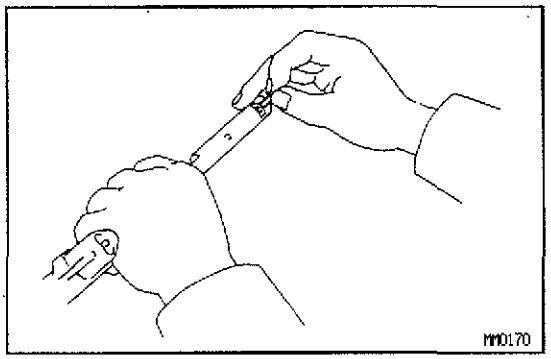
(b) Install the No.3 shift fork shaft to the rear case through the No.3 shift fork and shift head.



10. INSTALL NO.2 INTERLOCK PIN

(a) Apply MP grease to the No.2 interlock pin.

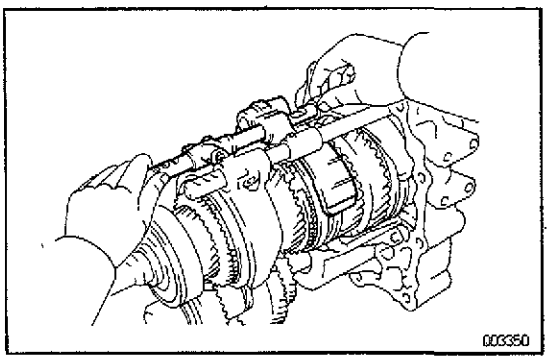
(b) Install the No.2 interlock pin to the rear case.



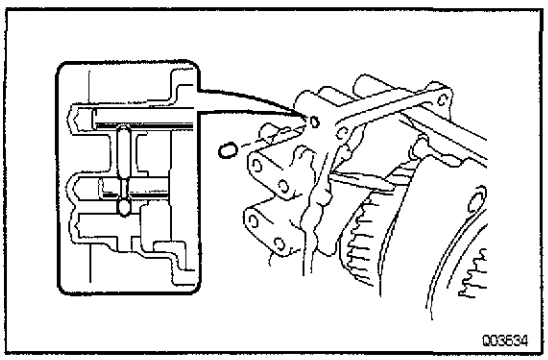
11. INSTALL NO.1 SHIFT FORK SHAFT

(a) Apply MP grease to the No.1 roller.

(b) Install the No.1 roller into the shaft hole.



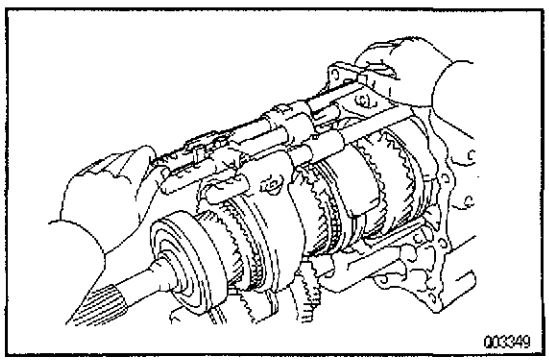
(c) Install the No.1 shift fork shaft to the rear case through the shift fork No.1.



12. INSTALL NO.1 INTERLOCK PIN

(a) Apply MP grease to the No.1 interlock pin.

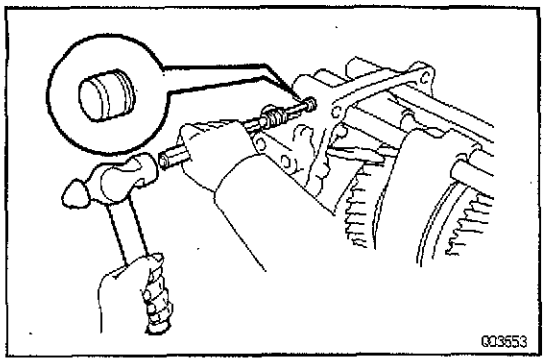
(b) Install the No.1 interlock pin into the rear case.



13. INSTALL NO.2 SHIFT FORK SHAFT AND SHIFT FORK

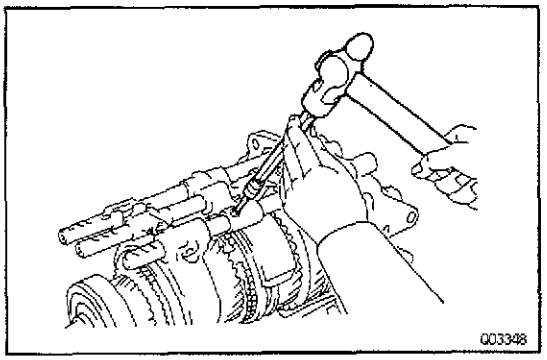
(a) Place the No.2 shift fork into the groove of No.2 hub sleeve.

(b) Install the No.2 shift fork shaft to the rear case through the No.2 shift fork.

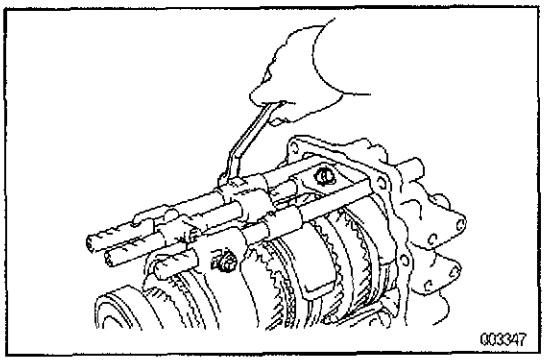


(c) Apply seal packing to the hole plug, and install it to the rear case.
Seal packing:
Part No. 08833 – 00070, THREE BOND 1324 or equivalent
Drive in depth:
0.3–1.3 mm (0.012–0.051)

(d) Using a pin punch and hammer, drive in the hole plug to the rear case.

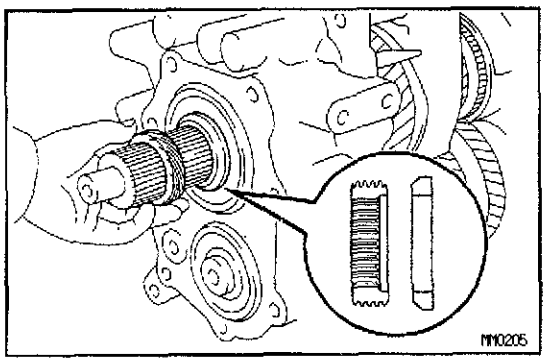


14. INSTALL SLOTTED SPRING PIN
Using a pin punch and hammer, drive in the slotted spring pin to the shift head.

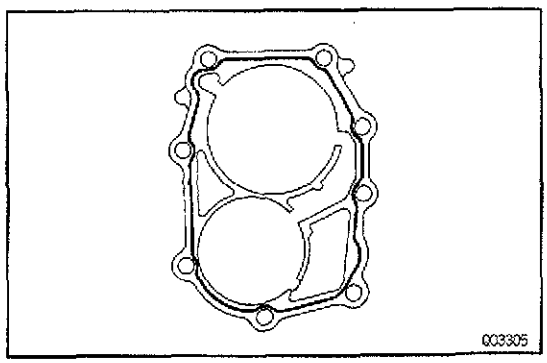


15. INSTALL SET BOLTS
Install and torque the 3 bolts.
Torque: 34 N·m (350 kgf·cm, 25 ft·lbf)

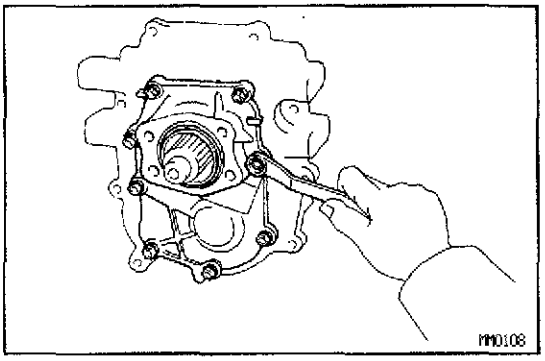
16. CHECK INTERLOCK
(a) Shift the No.1 fork shaft to the 1st speed position.
(b) No.2 and No.3 fork shafts should not move.



17. INSTALL SPEED SENSOR DRIVE GEAR AND SPACER

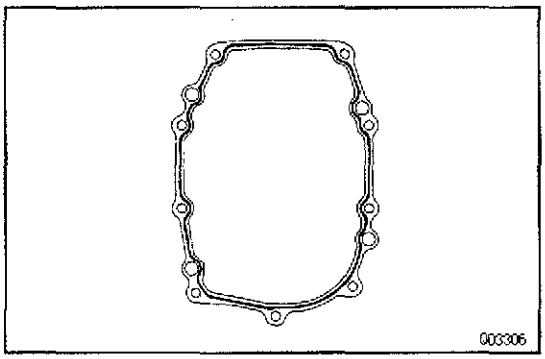


18. INSTALL REAR BEARING RETAINER
(a) Apply seal packing to the retainer, as shown in the illustration and install it to the rear case.
Seal packing:
Part No. 08826 – 00090, THREE BOND 1281 or equivalent



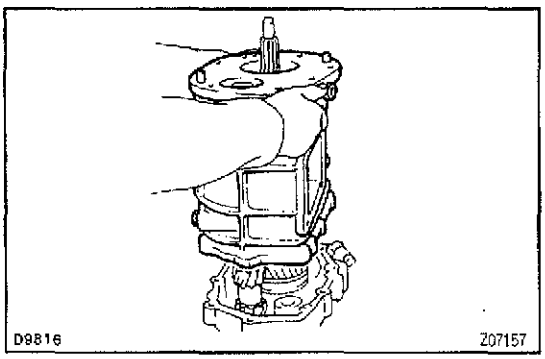
(b) Apply seal packing to the bolts.
Seal packing:
Part No.08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent

(c) Install and torque the 8 bolts.
Torque: 34 N·m (350 kgf·cm, 25 ft·lbf)

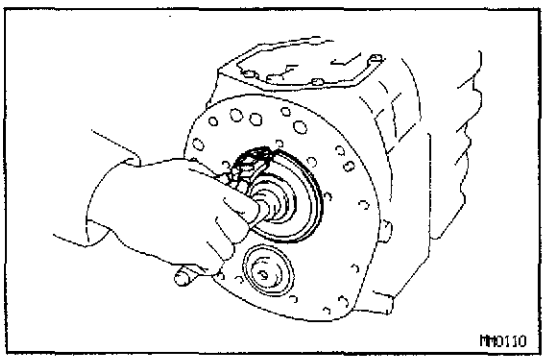


19. INSTALL TRANSMISSION FRONT CASE

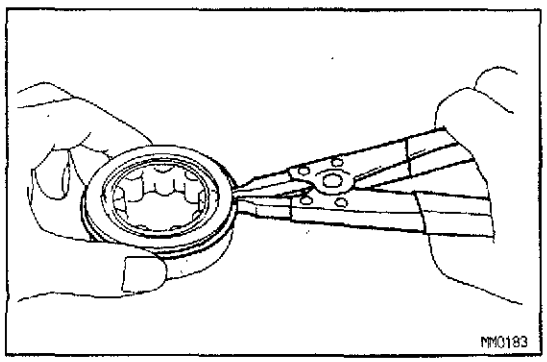
(a) Apply seal packing to the front case, as shown in the illustration.
Seal packing:
Part No. 08826 – 00090, THREE BOND 1281 or equivalent



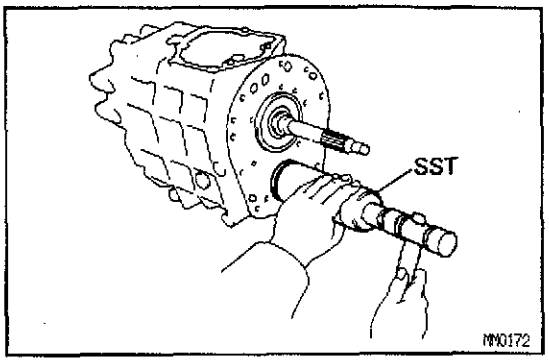
(b) Align each bearing outer race and each fork shaft end with the case installation holes, and install the case. If necessary, tap on the case with a plastic hammer.



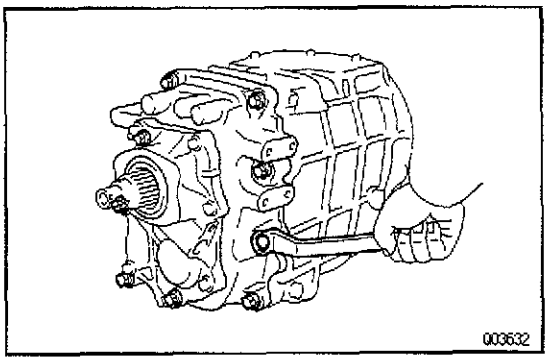
(c) Using a snap ring expander, install the snap ring to the input shaft bearing.



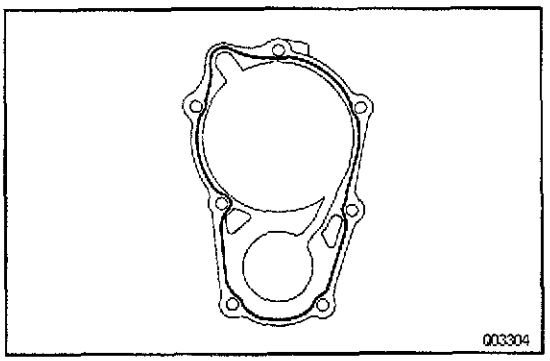
(d) Using a snap ring expander, install the snap ring.



(e) Using SST, drive in the counter front bearing.
SST 09316–60010 (09316–00010)

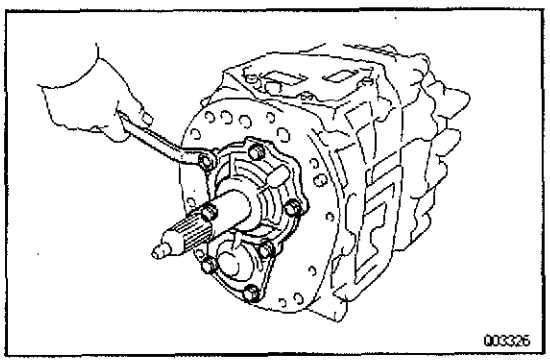


(f) Install and torque the 9 bolts.
Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)



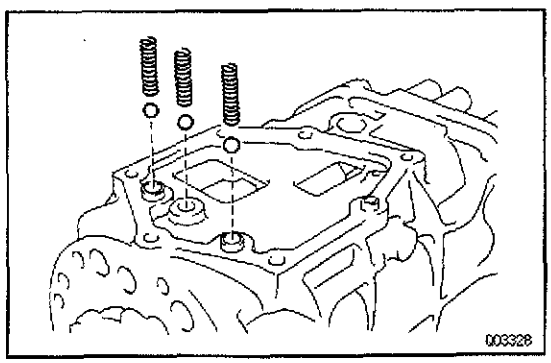
20. INSTALL FRONT BEARING RETAINER

(a) Apply seal packing to the retainer, as shown in the illustration, and install it to the front case.
Seal packing:
Part No. 08826 – 00090, THREE BOND 1281 or equivalent



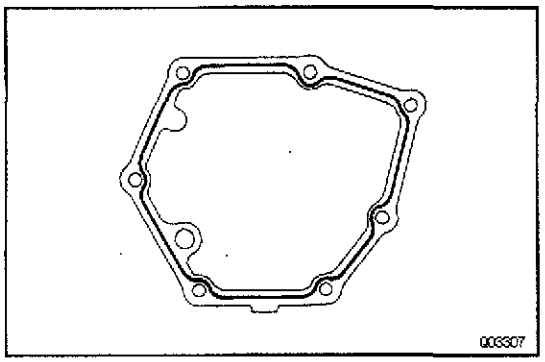
(b) Apply seal packing to the bolts.
Seal packing:
Part No.08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent

(c) Install and torque the 7 bolts.
Torque: 17 N·m (170 kgf·cm, 12 ft·lbf)

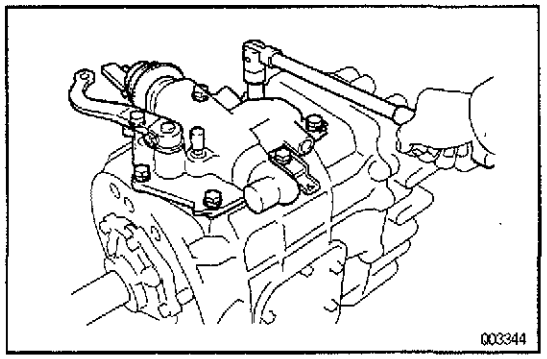


21. INSTALL SHIFT LEVER SHAFT HOUSING ASSEMBLY

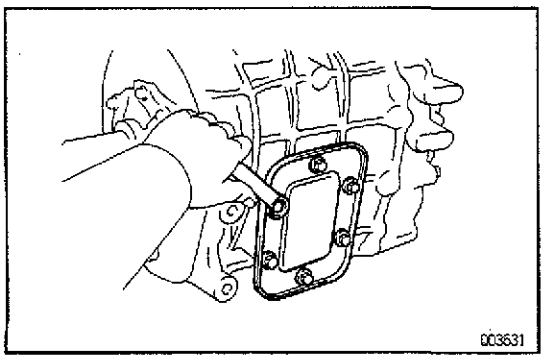
(a) Install the 3 balls and springs.



(b) Apply seal packing to the housing, as shown in the illustration, and install it to the front case.
Seal packing:
Part No. 08826 – 00090, THREE BOND 1281 or equivalent
HINT: Insure that the tip of No.2 shift lever is positioned securely in the shift head.

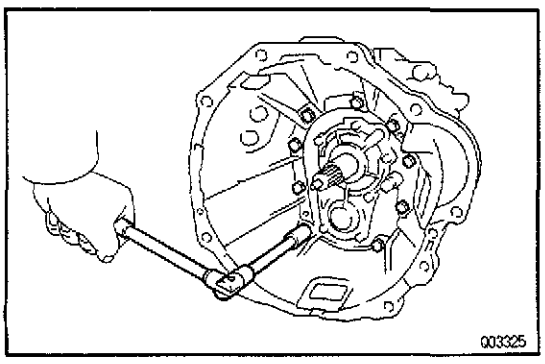


(c) Apply seal packing to the bolts.
Seal packing:
Part No.08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent
(d) Install and torque the 7 bolts.
Torque: 17 N·m (170 kgf·cm, 12 ft·lbf)

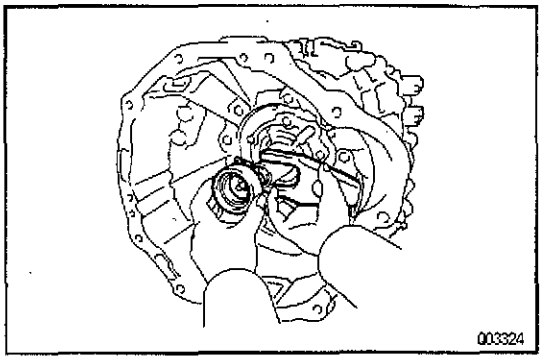


22. INSTALL POWER TAKE – OFF COVER WITH GASKET
(a) Apply seal packing to the bolts.
Seal packing:
Part No.08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent
(b) Install and torque the 6 bolts.
Torque: 14 N·m (145 kgf·cm, 11 ft·lbf)

23. AFTER INSTALLING SHIFT LEVER SHAFT HOUSING, CHECK FOLLOWING ITEMS:
(a) Check to see that the input and output shafts rotate smoothly.
(b) Check to see that shifting is smooth to all positions.



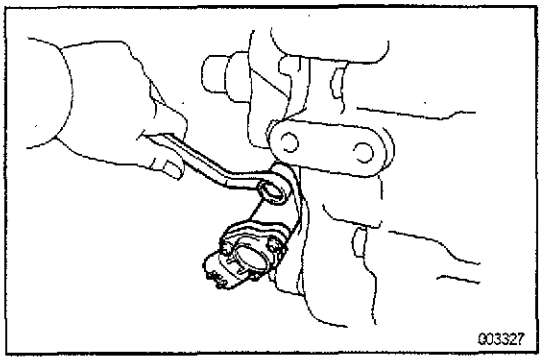
24. INSTALL CLUTCH HOUSING
(a) Install the clutch housing.
(b) Install and torque the bolts.
Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)



25. INSTALL RELEASE FORK AND BEARING

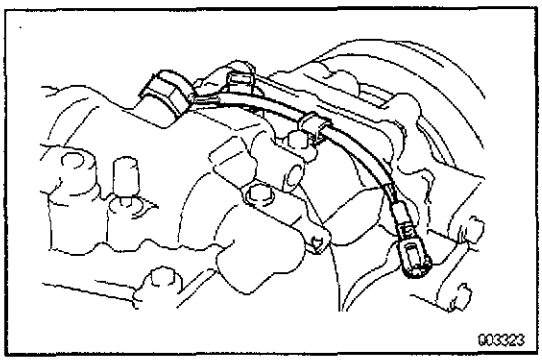
(a) Apply molybdenum disulphide lithium base grease to following parts:
- Release bearing hub inside groove
- Input shaft spline
- Release fork contact surface

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



26. INSTALL SPEED SENSOR DRIVEN GEAR

Torque: 11 N·m (115 kgf·cm, 8 ft·lbf)



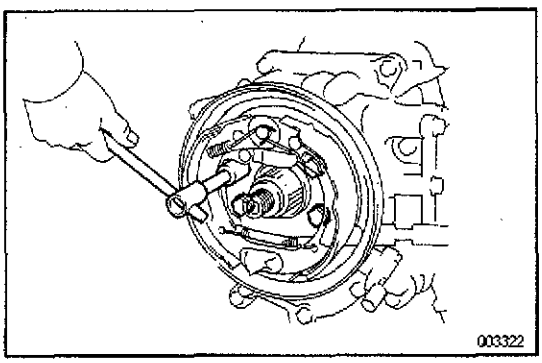
27. INSTALL BACK – UP LIGHT SWITCH, NEUTRAL SWITCH

Back–up light switch

Torque: 44 N·m (450 kgf·cm, 33 ft·lbf)

Neutral switch

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



28. INSTALL PARKING BRAKE ASSEMBLY

(a) Install the parking brake assembly to the rear bearing retainer.

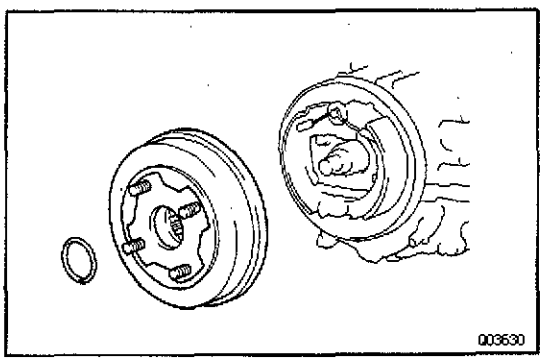
(b) Apply seal packing to the bolts.

Seal packing:

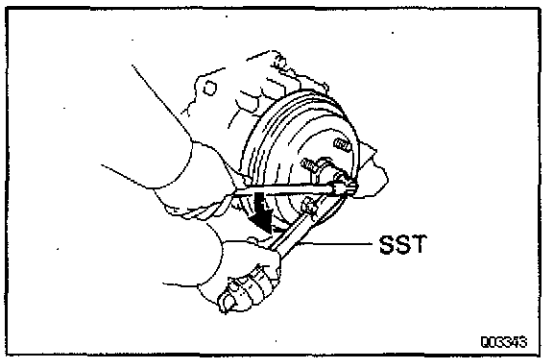
Part No.08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent

(c) Install and torque the 4 bolts.

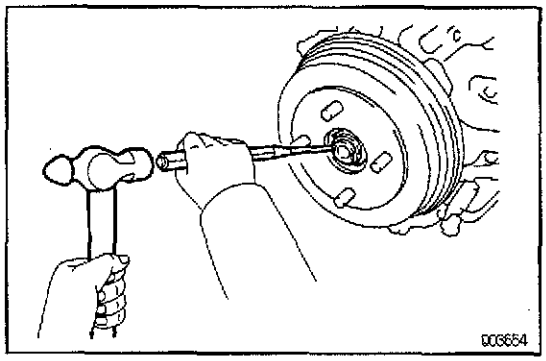
Torque: 47 N·m (475 kgf·cm, 34 ft·lbf)



(d) Install the brake drum and a new O–ring.



(e) Using SST, install and torque the lock nut.
SST 09330–00021
Torque: 127 N·m (1,300 kgf·cm, 94 ft·lbf)



(f) *Using a pin punch and hammer, stake the lock nut.*