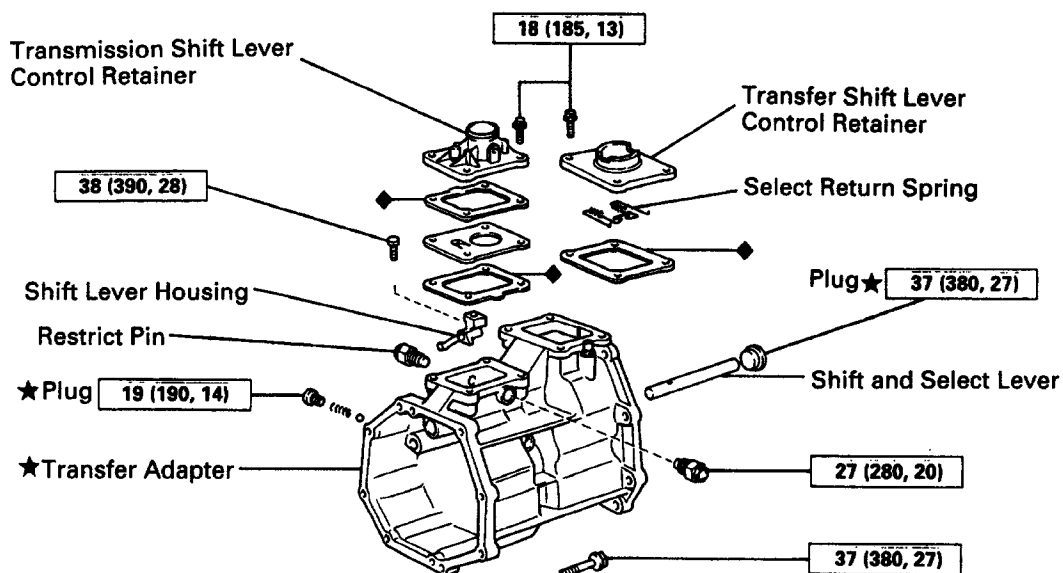
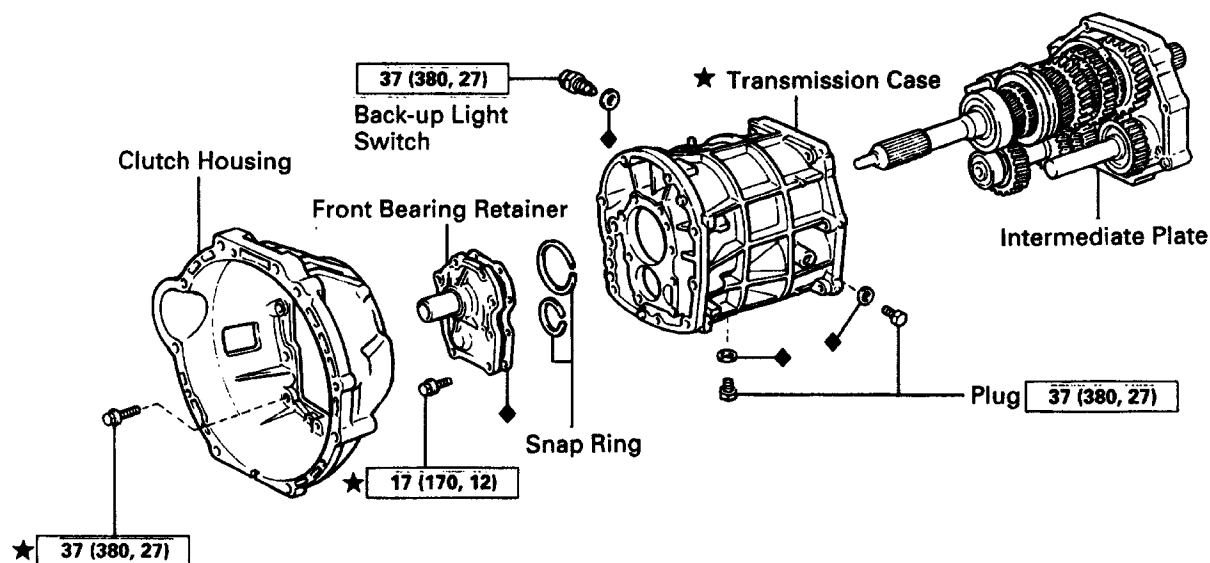


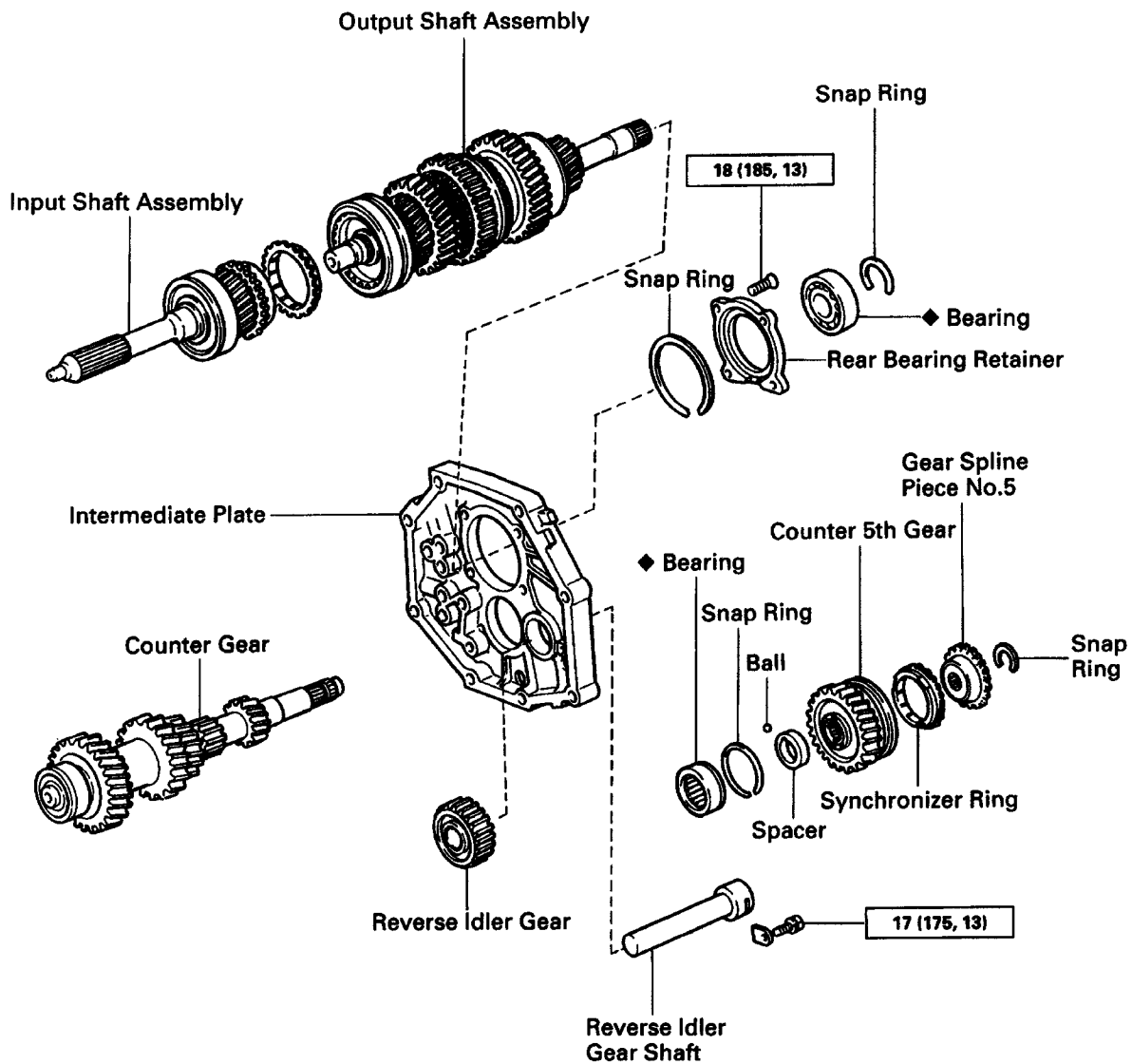
COMPONENT PARTS REMOVAL COMPONENTS

GM0321
GM0450

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

◆ Non-reusable part

★ Precoated part

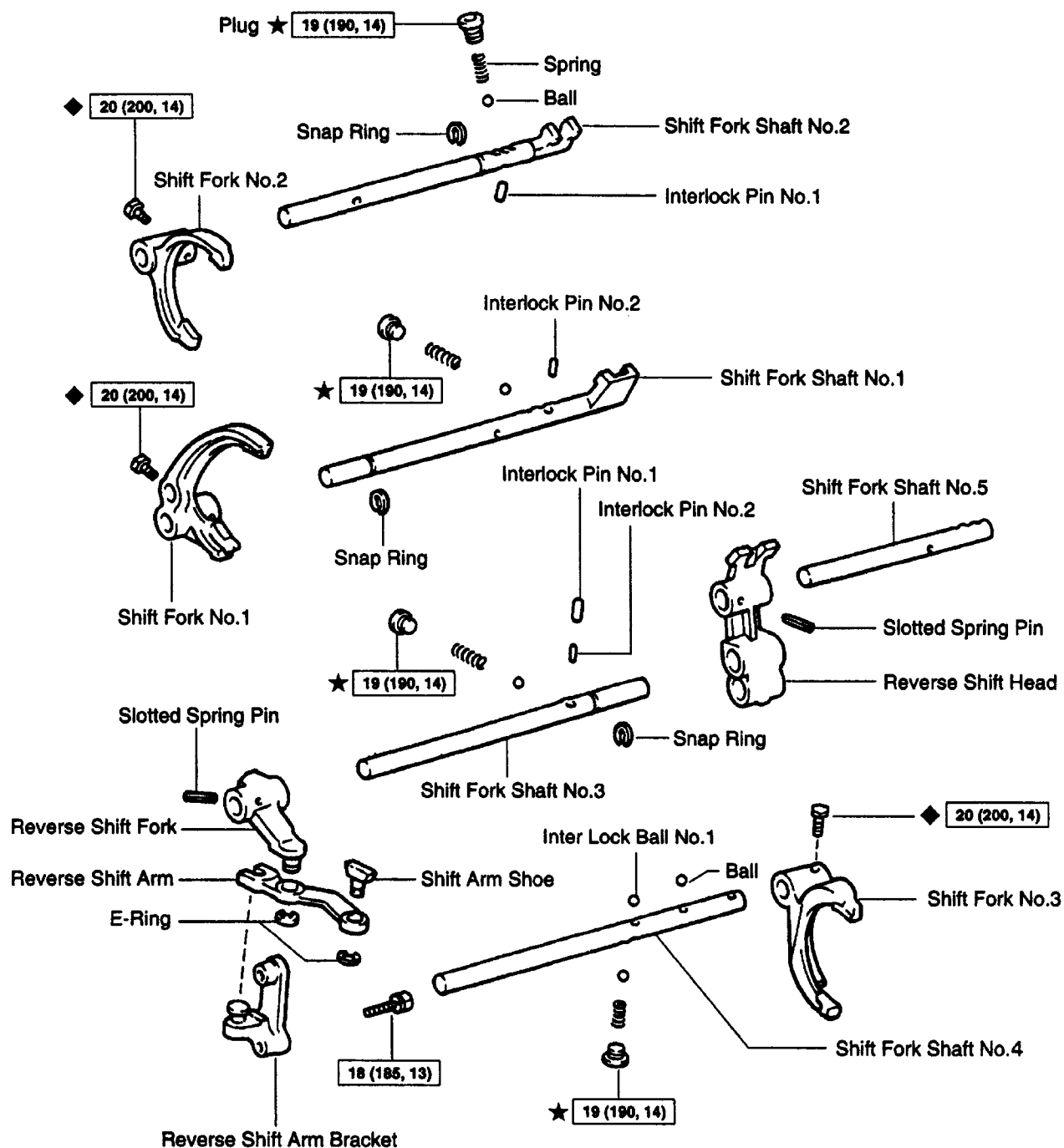


N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

GM0325

Z14377



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

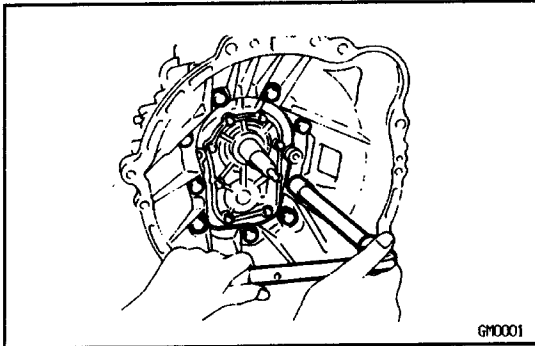
◆ Non-reusable part

★ Precoated part

BASIC SUBASSEMBLY SEPARATION

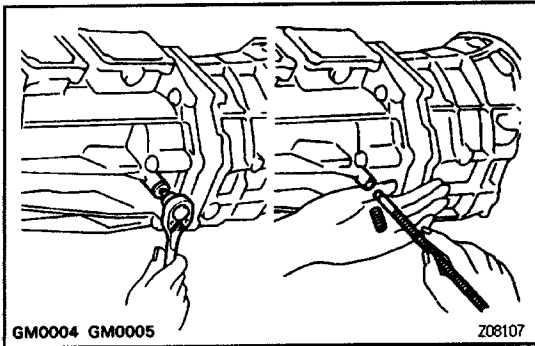
(See pages [MT1-16](#) to [MT1-18](#))

1. REMOVE RELEASE FORK AND BEARING
2. REMOVE BACK – UP LIGHT SWITCH WITH GASKET



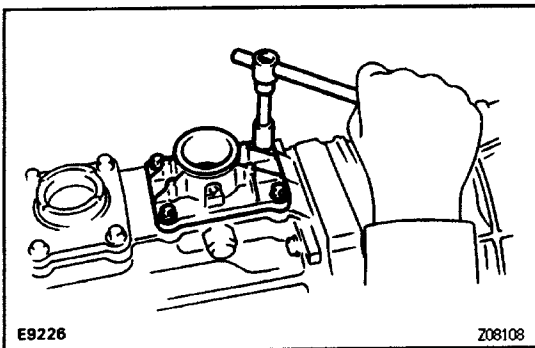
3. REMOVE CLUTCH HOUSING FROM TRANSMISSION CASE

Remove the 9 bolts and clutch housing.



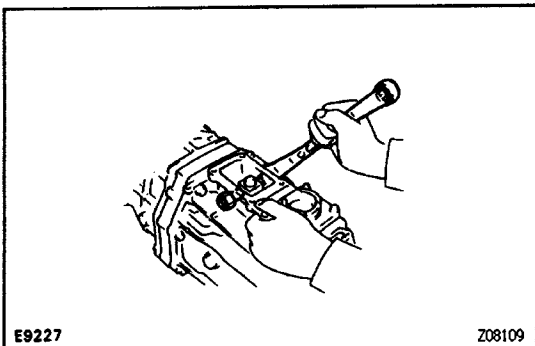
4. REMOVE STRAIGHT SCREW PLUG, SPRING AND BALL

- (a) Using a torx socket wrench, remove the screw plug from the transfer adaptor.
(Torx socket wrench T40 09042-00020)
- (b) Using a magnetic finger, remove the spring and ball.

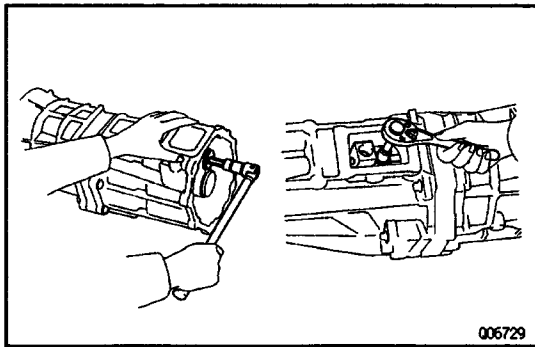


5. REMOVE TRANSMISSION AND TRANSFER SHIFT LEVER CONTROL RETAINER

- (a) Remove the 4 bolts and transmission shift lever control retainer with the gasket.
- (b) Remove the 4 bolts, transfer shift lever control retainer and select return spring with the gasket.

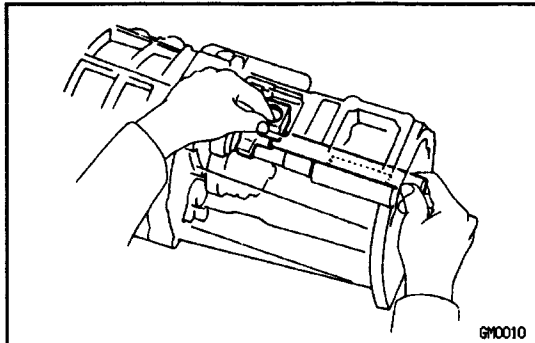


6. REMOVE 2 RESTRICT PINS

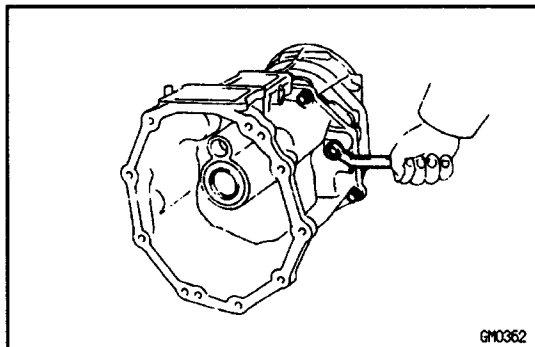


7. REMOVE TRANSFER ADAPTOR

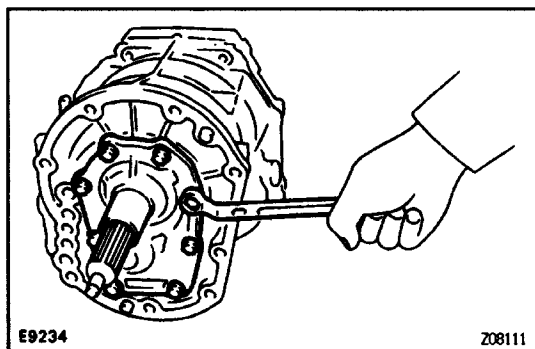
- (a) Using a hexagon wrench, remove the plug from the transfer adaptor.
- (b) Remove the shift lever housing set bolt.



- (c) Remove the shift and select lever and shift lever housing.

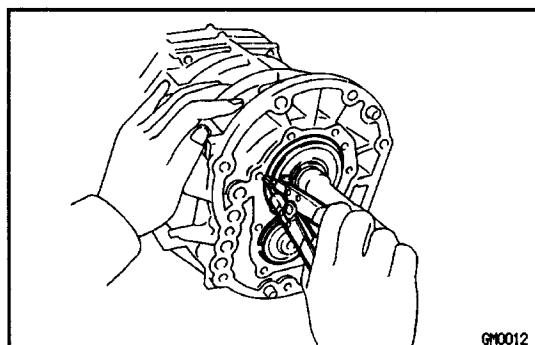


- (d) Remove the 8 bolts.
- (e) Using a plastic hammer, carefully tap the transfer adaptor.



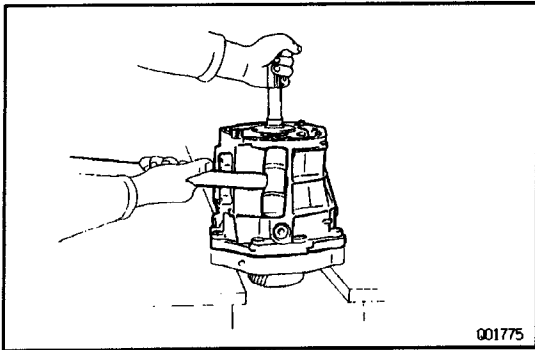
8. REMOVE FRONT BEARING RETAINER

Remove the 8 bolts, front bearing retainer and gasket.



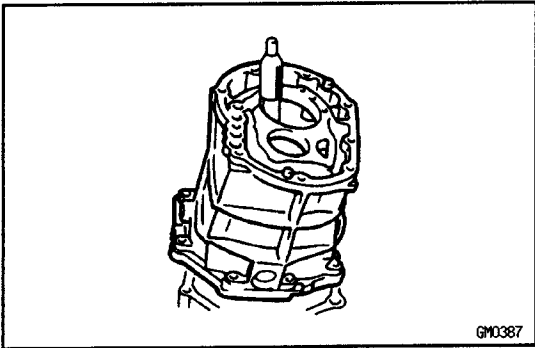
9. REMOVE BEARING SNAP RINGS

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

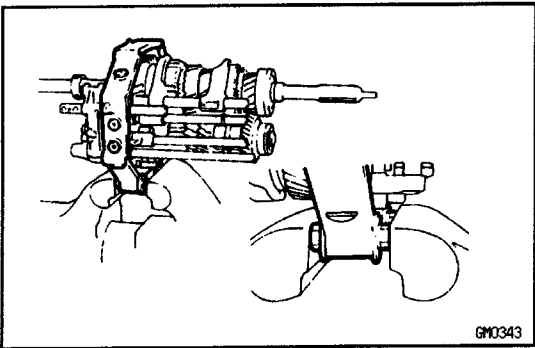


10. SEPARATE INTERMEDIATE PLATE FROM TRANSMISSION CASE

- (a) Stand the transmission, as shown.
- (b) Using a plastic hammer, carefully tap the transmission case.



- (c) Remove the transmission case from the intermediate plate, as shown.

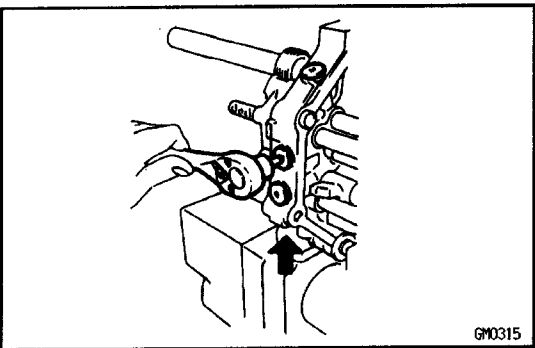


11. MOUNT INTERMEDIATE PLATE IN VISE

- (a) Use the 2 long clutch housing bolts, plate washers and suitable nuts, as shown.

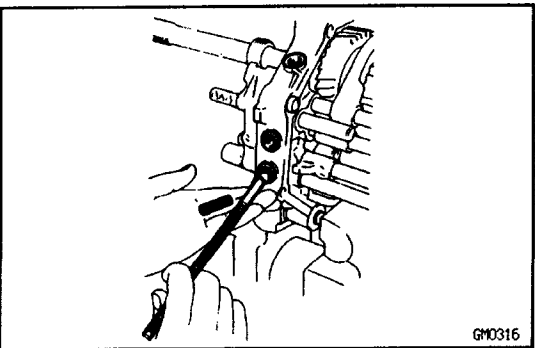
NOTICE: Increase or decrease plate washers so that the bolt tip does not stand proud of the nut.

- (b) Mount the intermediate plate in a vise.

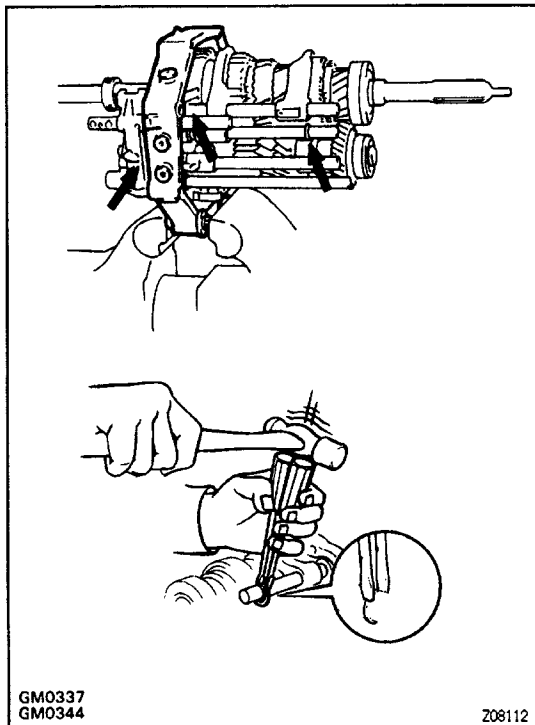


12. REMOVE STRAIGHT SCREW PLUGS, LOCKING BALLS AND SPRINGS

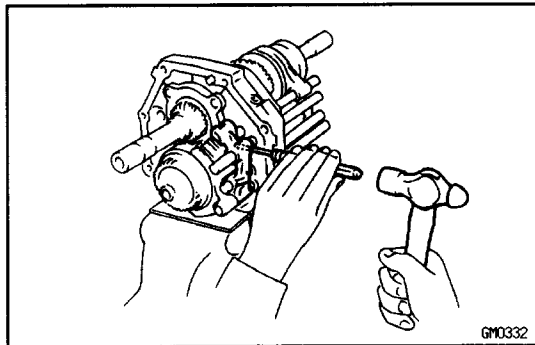
- (a) Using a torx socket wrench, remove the 3 screw plugs.
(Torx socket wrench T40 09042-00020)



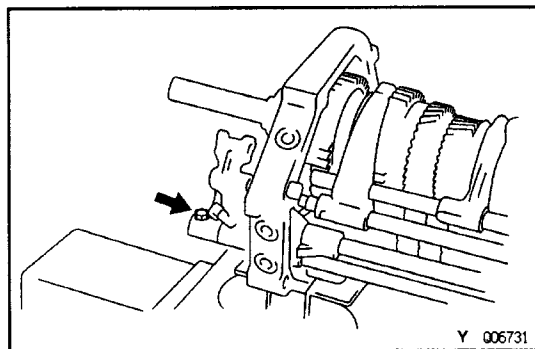
- (b) Using a magnetic finger, remove the 3 springs and balls.

**13. REMOVE SHIFT FORK SHAFT SNAP RINGS**

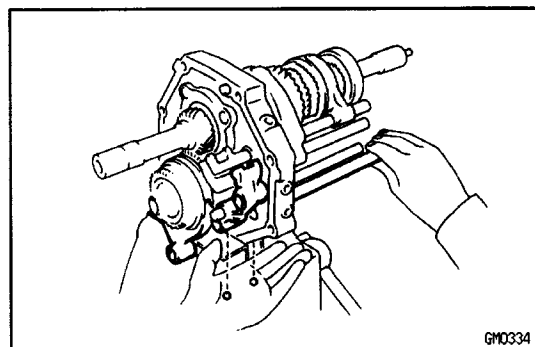
Using 2 screwdrivers and a hammer, drive out the 3 snap rings.

**14. REMOVE SHIFT FORK SHAFT NO.5**

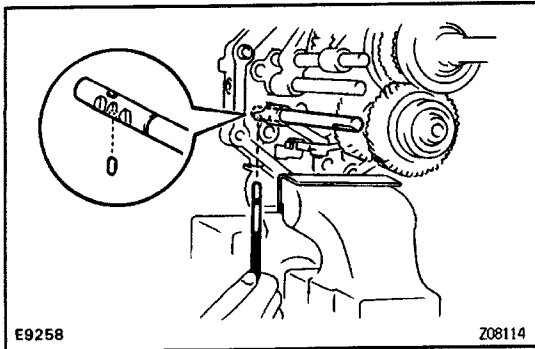
- (a) Using a pin punch and hammer, drive out the slotted spring pin.
- (b) Remove the shift fork shaft No.5.

**15. REMOVE SHIFT FORK NO.3, SHIFT FORK SHAFT NO.4 AND REVERSE SHIFT HEAD**

- (a) Remove the shift fork No.3 set bolt.

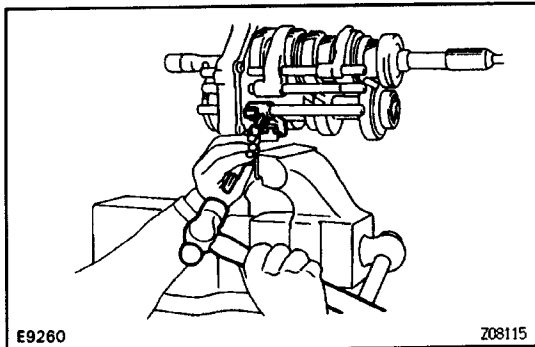


- (b) Remove the shift fork No.3, shift fork shaft No.4, reverse shift head and 2 balls.

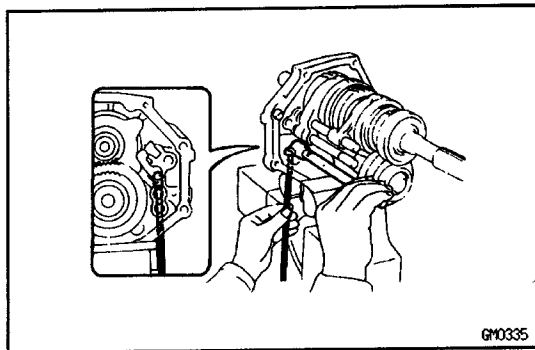


16. REMOVE REVERSE SHIFT ARM, REVERSE SHIFT FORK AND SHIFT FORK SHAFT NO.3

(a) Using a magnetic finger, remove the interlock pin from the shift fork shaft No.3.

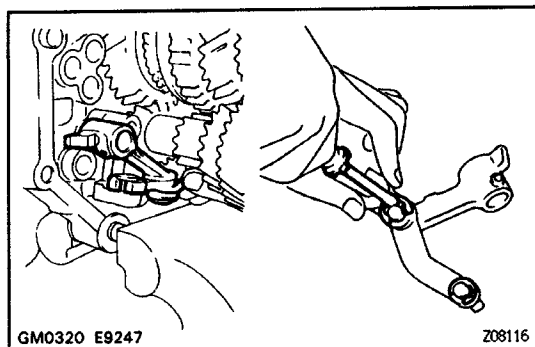


(b) Using a pin punch and hammer, drive out the slotted spring pin.



(c) Remove the shift fork shaft No.3.

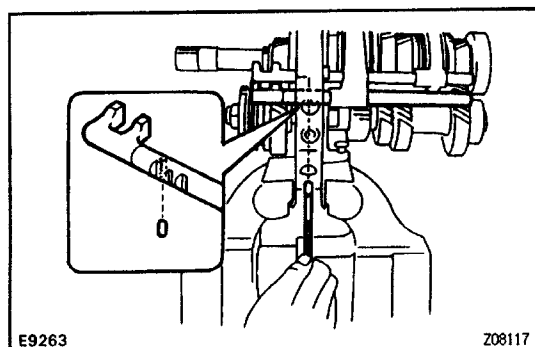
(d) Remove the interlock pin No.1.



(e) Remove the reverse shift arm and fork.

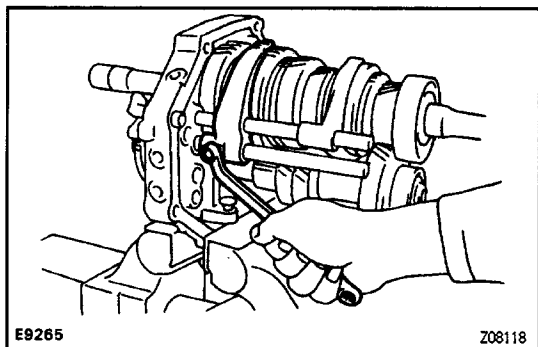
(f) Using a screwdriver, remove the 2 E-rings.

(g) Separate the shift arm, fork and shoe.

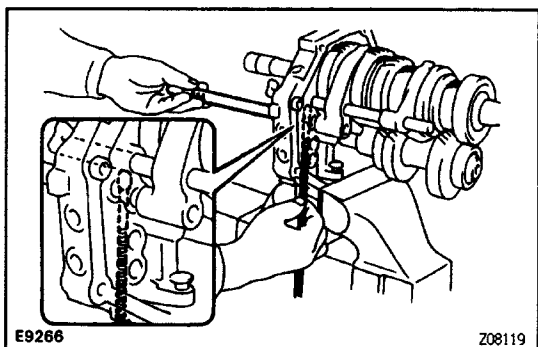


17. REMOVE SHIFT FORK SHAFT NO. 1, NO. 2 AND SHIFT FORK NO.1, NO.2

(a) Using a magnetic finger, remove the interlock pin No.2 from the shift fork shaft No.2.

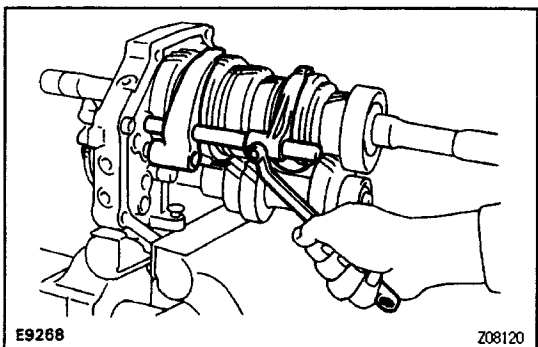


(b) Remove the shift fork No.1 set bolt.



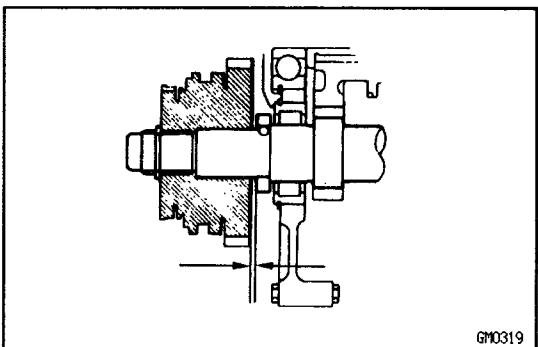
(c) Remove the shift fork shaft No.1.

(d) Remove the interlock pin No.1.



(e) Remove the shift fork No.2 set bolt.

(f) Remove the shift fork No.1, No.2 and shift fork shaft No.2.



18. INSPECT COUNTER 5TH GEAR THRUST CLEAR- ANCE

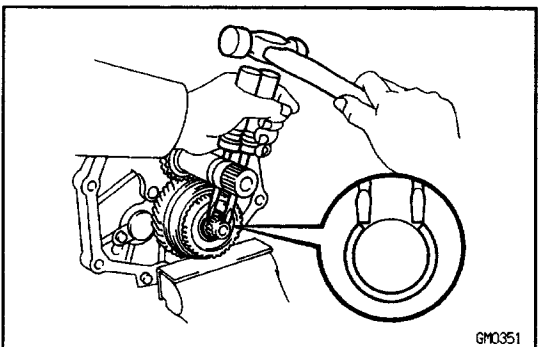
Using a feeler gauge, measure the counter 5th gear thrust clearance.

Standard clearance:

0.10–0.30 mm (0.0038–0.0118 in.)

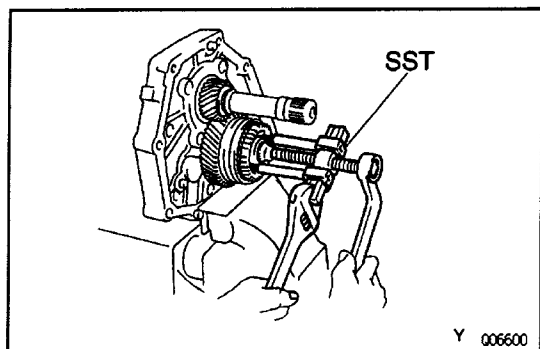
Maximum clearance:

0.30 mm (0.0118 in.)



19. REMOVE GEAR SPLINE PIECE NO.5, SYNCHRONI- ZER RING, NEEDLE ROLLER BEARINGS AND COU- NTER 5TH GEAR WITH HUB SLEEVE NO.3

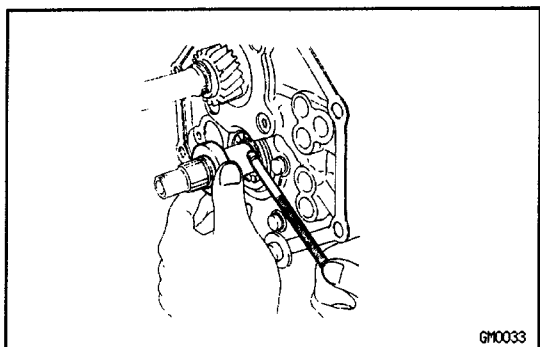
(a) Using 2 screwdrivers and a hammer, tap out the snap ring.



(b) Using SST, remove the gear spline piece No.5.

SST 09950-50010

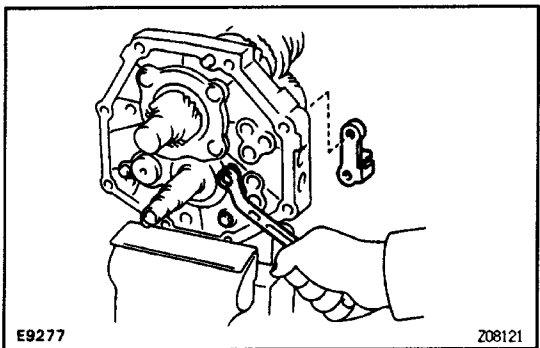
(c) Remove the synchronizer ring, needle roller bearing and counter 5th gear.



20. REMOVE SPACER AND BALL

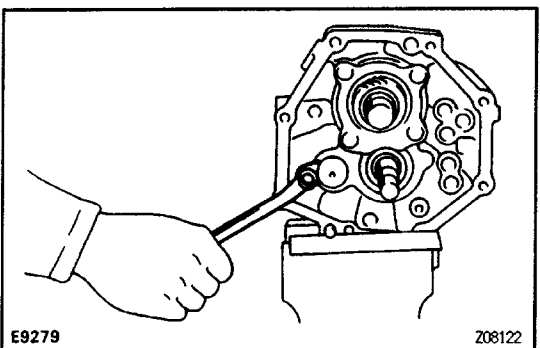
(a) Remove the spacer.

(b) Using a magnetic finger, remove the ball.



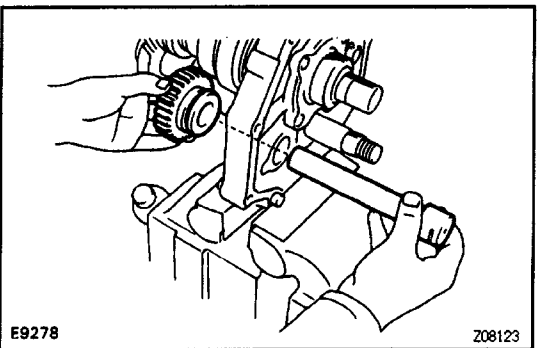
21. REMOVE REVERSE SHIFT ARM BRACKET

Remove the 2 bolts and reverse shift arm bracket.

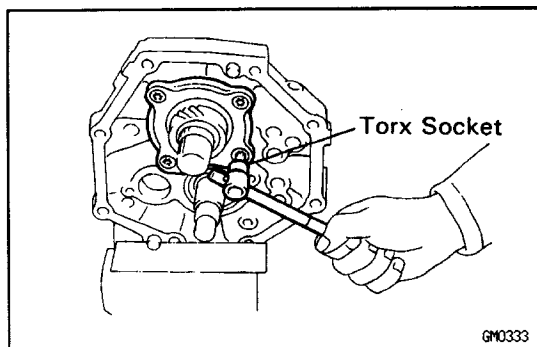


22. REMOVE REVERSE IDLER GEAR AND SHAFT

(a) Remove the reverse idler gear shaft stopper set bolt and stopper.

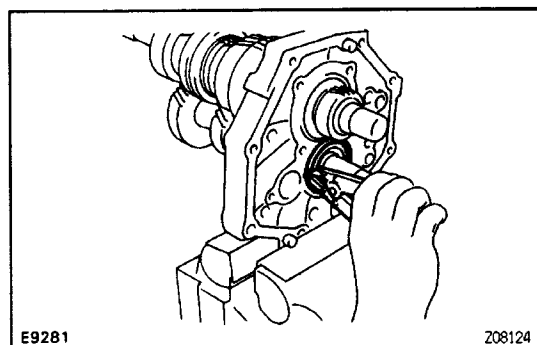


(b) Remove the reverse idler gear and shaft.

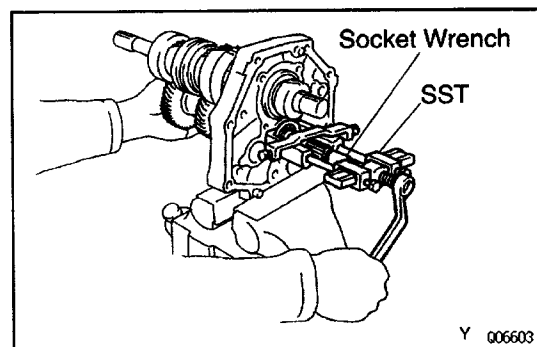
**23. REMOVE REAR BEARING RETAINER**

Using a torx socket wrench, remove the 4 screws and retainer.

(Torx socket wrench T40 09042-00020)

**24. REMOVE COUNTER GEAR**

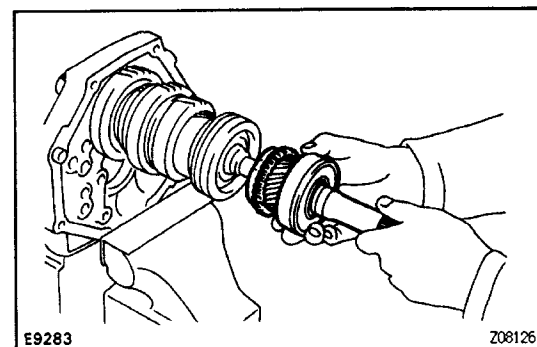
(a) Using a snap ring expander, remove the counter gear rear bearing snap ring.



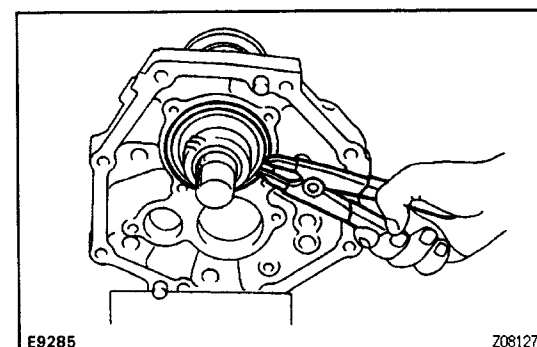
(b) Using SST and a 12 mm socket wrench, remove the counter gear rear bearing.

SST 09950-40010

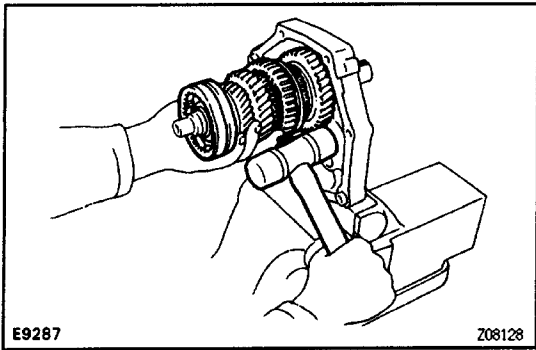
(c) Remove the counter gear.

**25. REMOVE INPUT SHAFT**

Remove the input shaft with the 13 needle roller bearings and synchronizer ring from the output shaft,

**26. REMOVE OUTPUT SHAFT**

(a) Using a snap ring expander, remove the output shaft center bearing snap ring.



- (b) Remove the output shaft, from the intermediate plate by pulling on the output shaft and tapping on the intermediate plate with a plastic hammer.