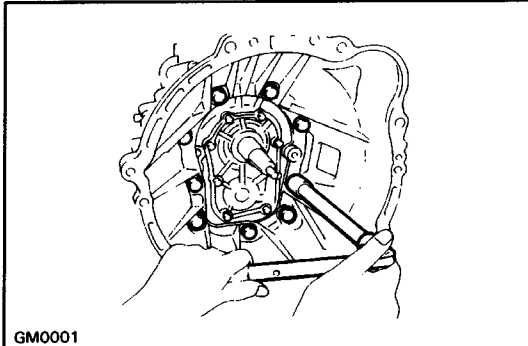


Disassembly of Transmission

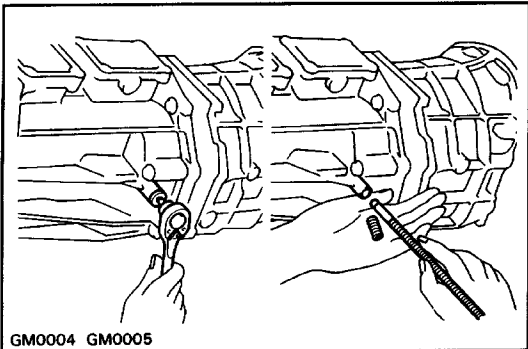
(See pages [MT1–26](#) to 28)

1. REMOVE RELEASE FORK AND BEARING
2. REMOVE BACK-UP LIGHT SWITCH



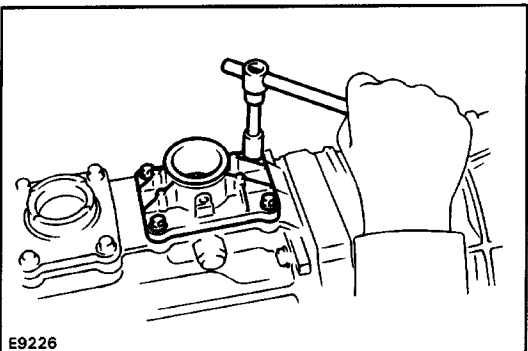
3. REMOVE CLUTCH HOUSING FROM TRANSMISSION CASE

Remove the nine bolts and clutch housing.



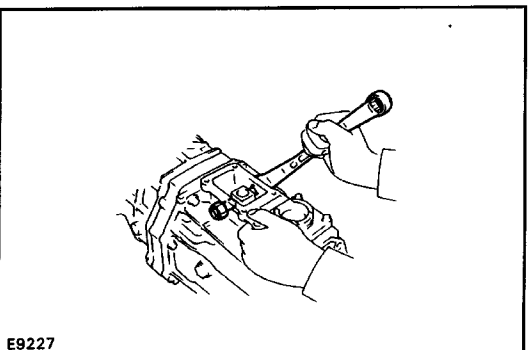
4. REMOVE STRAIGHT SCREW PLUG, SPRING AND BALL

- (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.

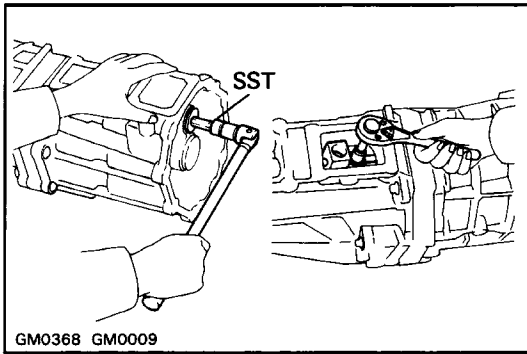


5. REMOVE SHIFT LEVER CONTROL RETAINER

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



6. REMOVE RESTRICT PINS

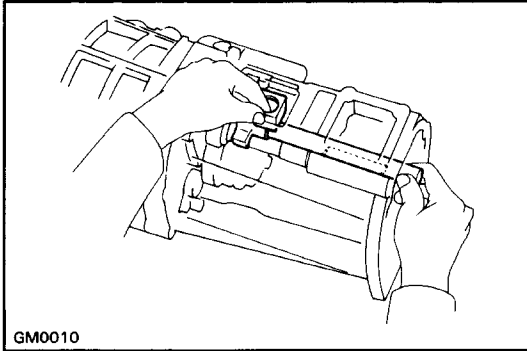


7. REMOVE TRANSFER ADAPTOR

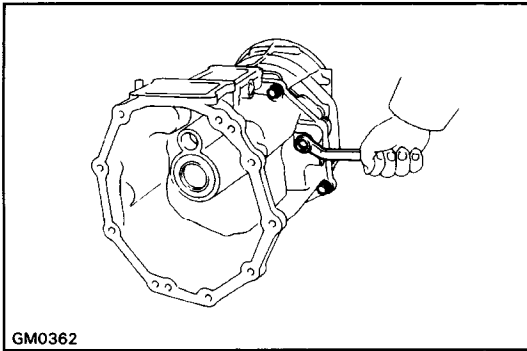
(a) Using SST, remove the plug from the transfer adaptor.

SST 09923-00010

(b) Remove the shift lever housing set bolt.

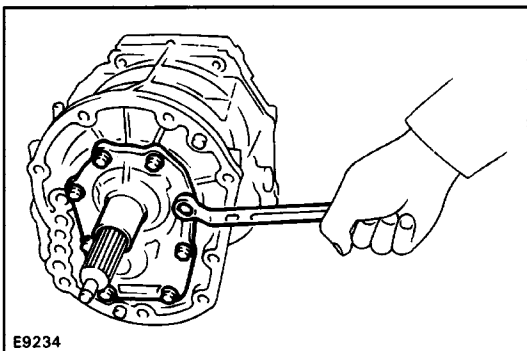


(c) Remove the shift lever shaft and housing.



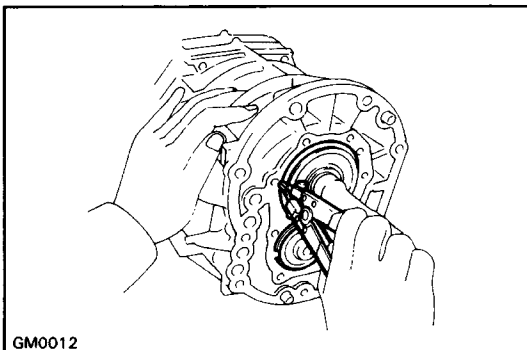
(d) Remove the eight bolts.

(e) Using a plastic hammer, carefully tap off the transfer adaptor.



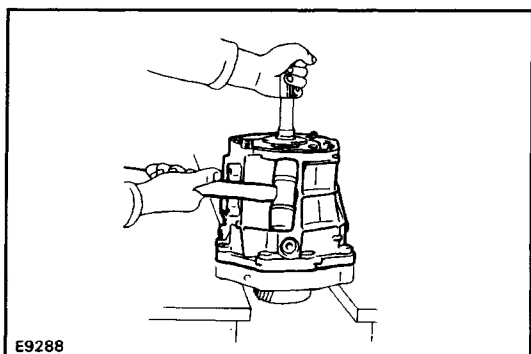
8. REMOVE FRONT BEARING RETAINER

Remove the eight bolts, and remove front bearing retainer and gasket.



9. REMOVE TWO BEARING SNAP RINGS

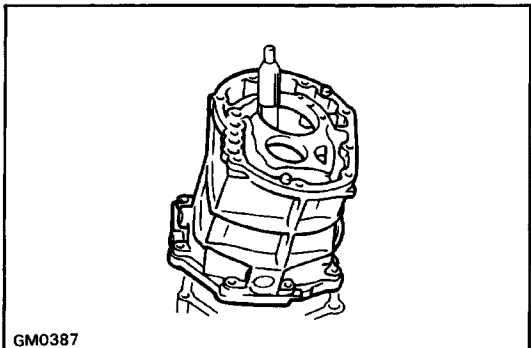
Using a snap ring expander, remove the two snap rings.



E9288

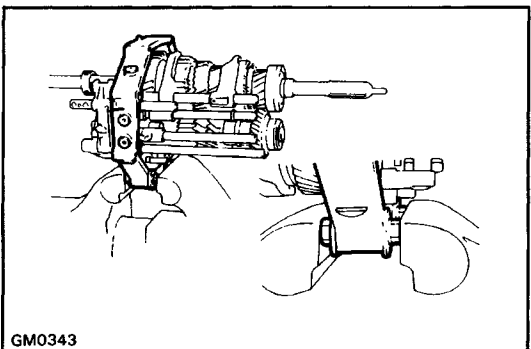
10. SEPARATE INTERMEDIATE PLATE FROM TRANSMISSION CASE

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



GM0387

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



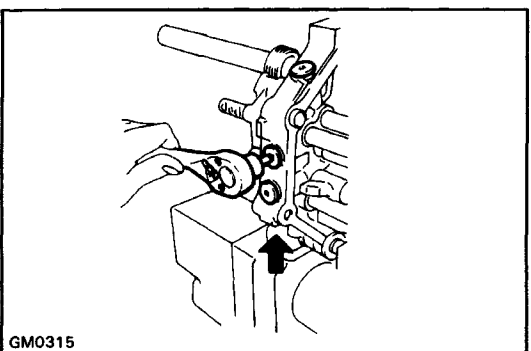
GM0343

11. MOUNT INTERMEDIATE PLATE IN VISE

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

NOTICE: Install the plate washers in reverse of normal. Increase or decrease plate washers so that the bolt tip and front tip surface of the nut are aligned.

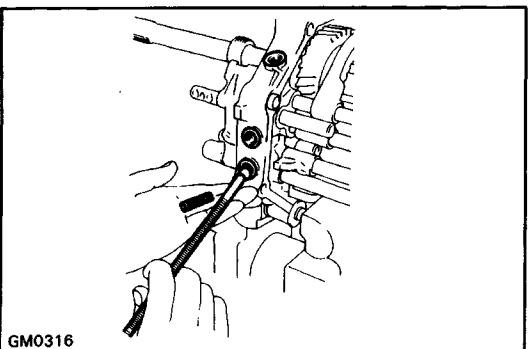
- (b) Mount the intermediate plate in a vise.



GM0315

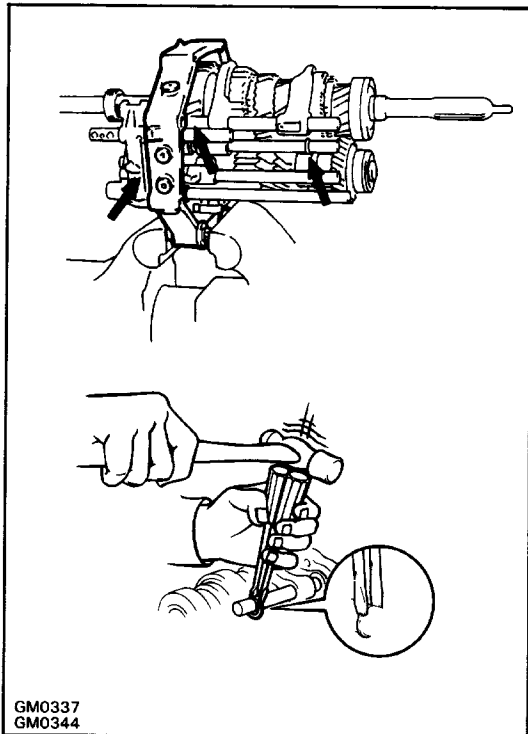
12. REMOVE STRAIGHT SCREW PLUGS, LOCKING BALLS AND SPRINGS

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

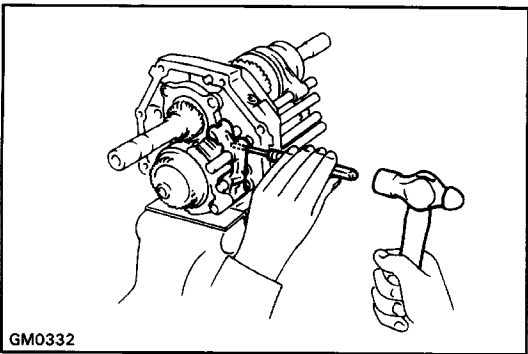


GM0316

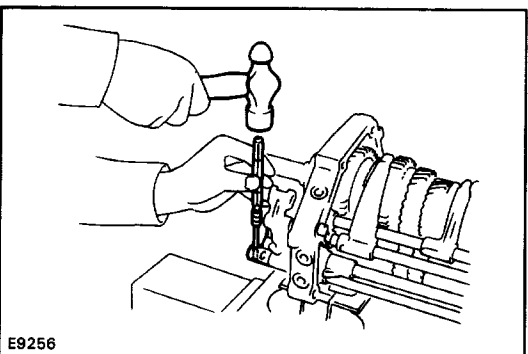
- (b) Using a magnetic finger, remove the springs and balls.

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

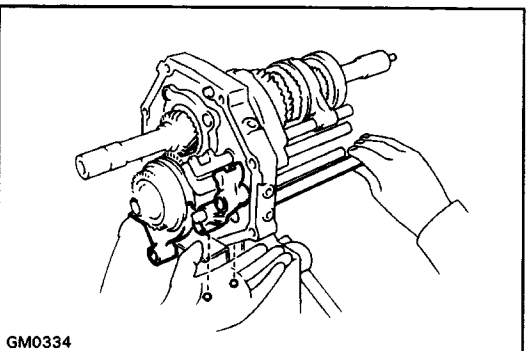
Using two screwdrivers and a hammer drive out the three snap rings.

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

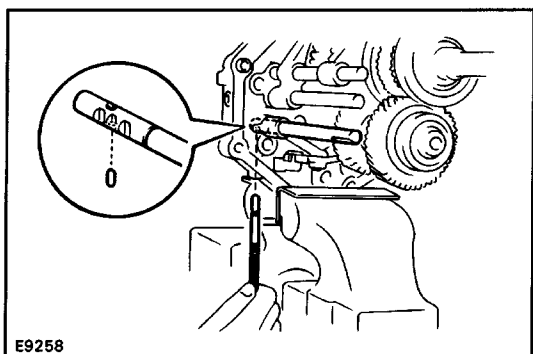
- (a) Using a pin punch and hammer, drive out the slotted spring pin.
- (b) Remove the shift fork shaft No.5.

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

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



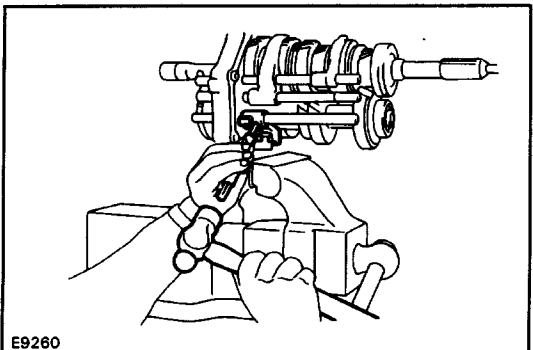
- (b) Remove the shift fork No.3, shift fork shaft No.4, reverse shift head and two balls.



E9258

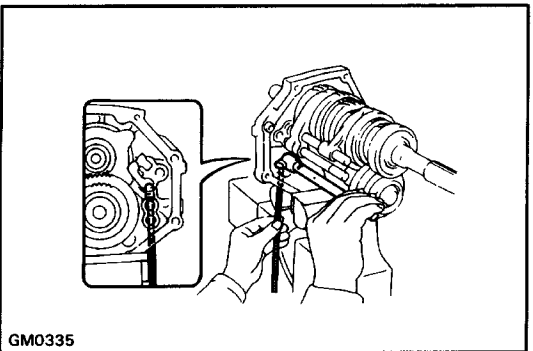
16. REMOVE REVERSE SHIFT ARM, REVERSE SHIFT FORK AND SHIFT FORK SHAFT NO-3

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



E9260

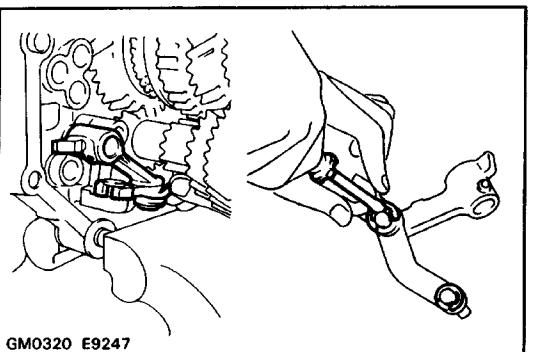
(b) Using a pin punch and hammer, drive out the slotted spring pin.



GM0335

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

(d) Remove the interlock pin No. 1.

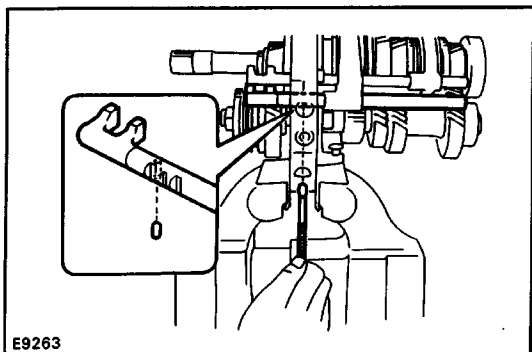


GM0320 E9247

(e) Remove the reverse shift arm and fork.

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

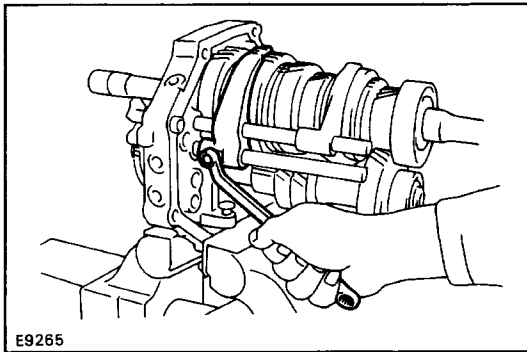
(g) Separate the shift arm, fork and shoe.



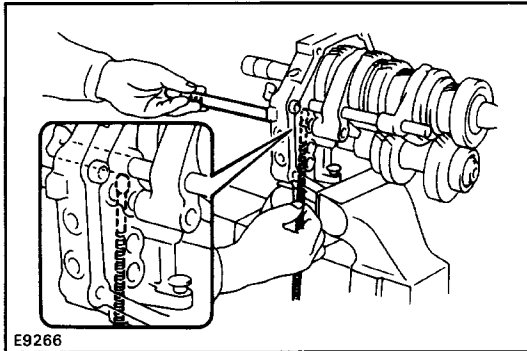
E9263

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 shift fork shaft No.2.

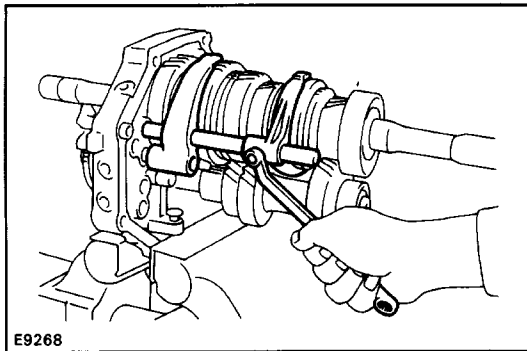


(b) Remove the shift fork No. 1 set bolt.



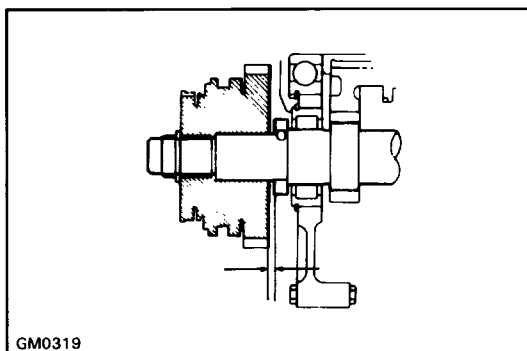
(c) Remove the shift fork shaft No. 1.

(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.

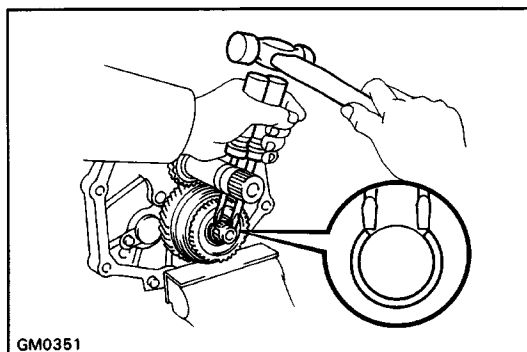


18. INSPECT COUNTER FIFTH GEAR THRUST CLEARANCE

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

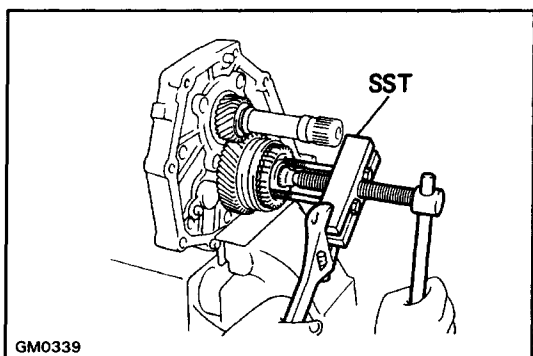
Standard clearance: 0.10 – 0.30 mm
(0.0039 – 0.0118 in.)

Maximum clearance: 0.30 mm (0.0118 in.)



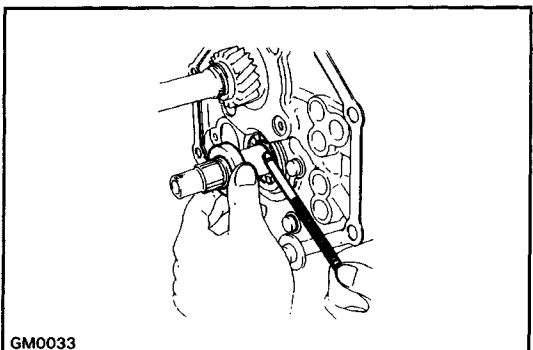
19. REMOVE GEAR SPLINE PIECE NO.5, SYNCHRONIZER RING, NEEDLE ROLLER BEARINGS AND COUNTER FIFTH GEAR WITH HUB SLEEVE NO.3

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



(b) Using SST, remove the gear spline piece No. 5. SST 09213-60017 (09213-00020, 09213-00030, 09213-00060)

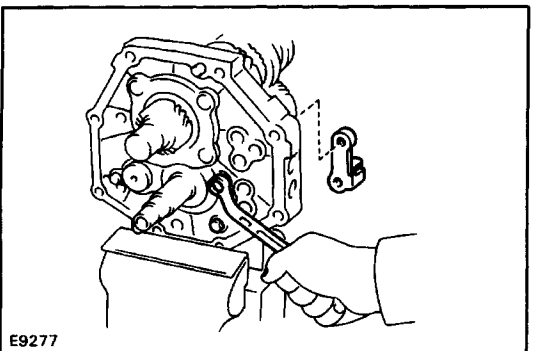
(c) Remove the synchronizer ring, needle roller bearing and counter 5th gear.



20. REMOVE SPACER AND BALL

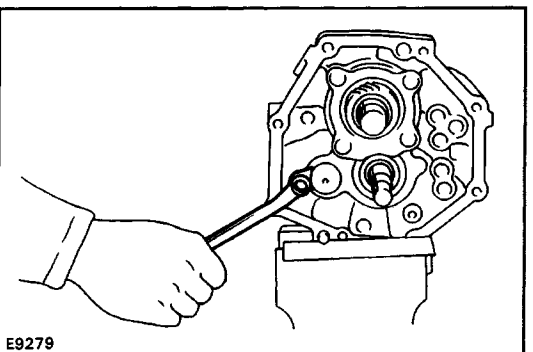
(a) Remove the spacer.

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



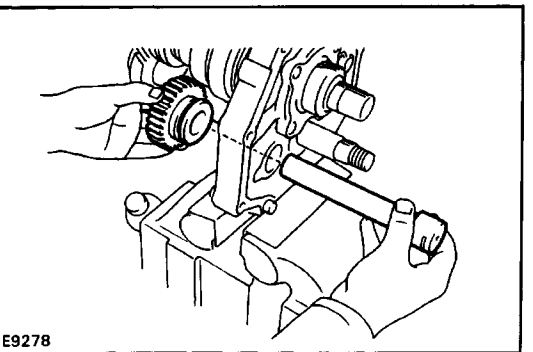
21. REMOVE REVERSE SHIFT ARM BRACKET

Remove the two bolts and reverse shift arm bracket.

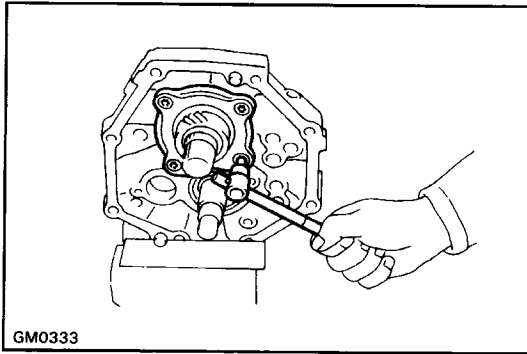


22. REMOVE REVERSE IDLER GEAR AND SHAFT

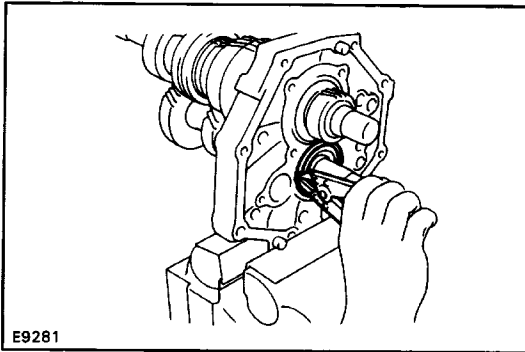
(a) Remove the reverse idler gear shaft stopper set bolt and stopper.



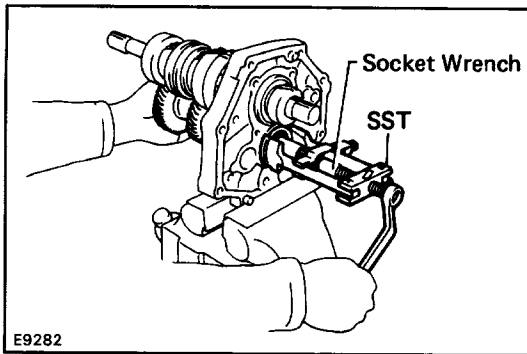
(b) Remove the reverse idler gear and shaft.

**23. REMOVE REAR BEARING RETAINER**

Using a torx socket wrench, remove the four bolts.
(Torx socket wrench T40 09042-00020)

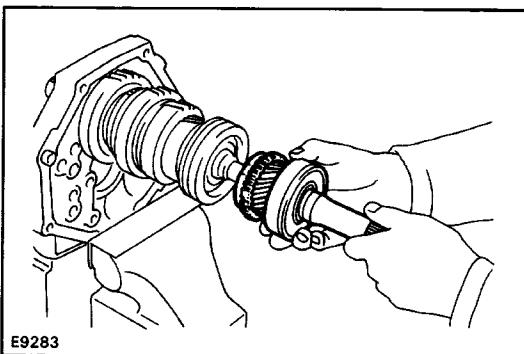
**24. REMOVE COUNTER GEAR**

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

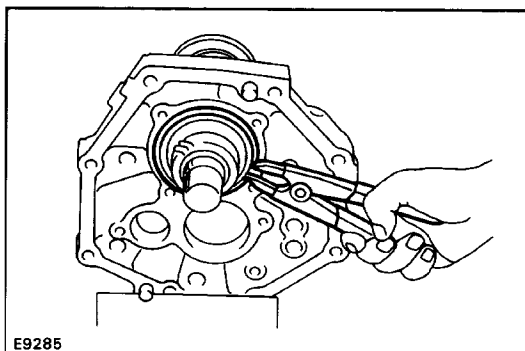


(b) Using SST and 12 mm socket wrench, remove the counter gear rear bearing.
SST 09602-35011

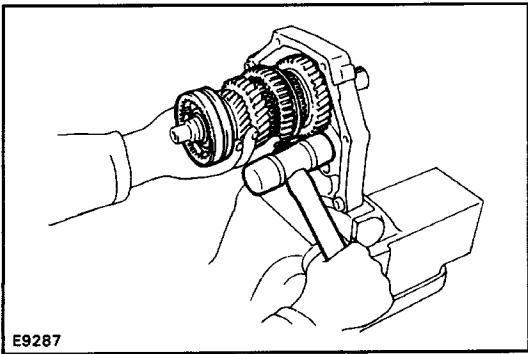
(c) Remove the counter gear.

**25. REMOVE INPUT SHAFT**

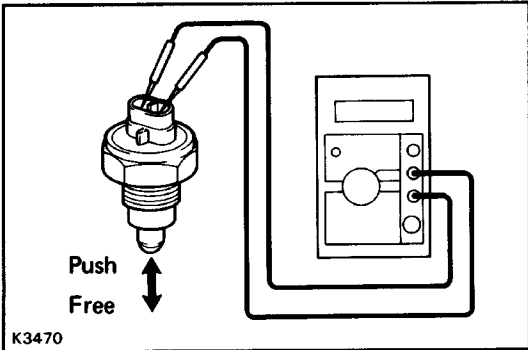
Remove the input shaft with 13 needle roller bearings and synchronizer ring from output shaft.

**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 plastic hammer.



27. INSPECT BACK-UP LIGHT SWITCH

Check that there is continuity between terminals as shown.

Switch Position	Specified
Push	Continuity
Free	No continuity

If operation is not as specified, replace switch.