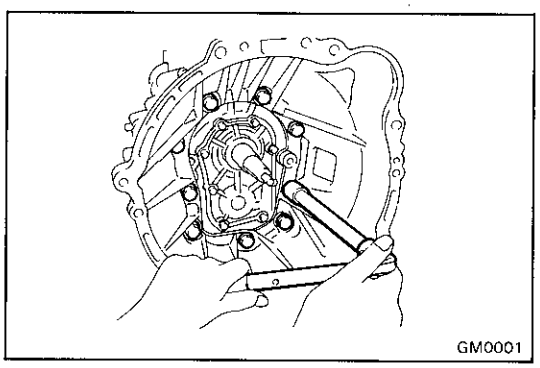
DISASSEMBLY OF TRANSMISSION

(See pages MT-12 to 14)

1. REMOVE RELEASE FORK AND BEARING

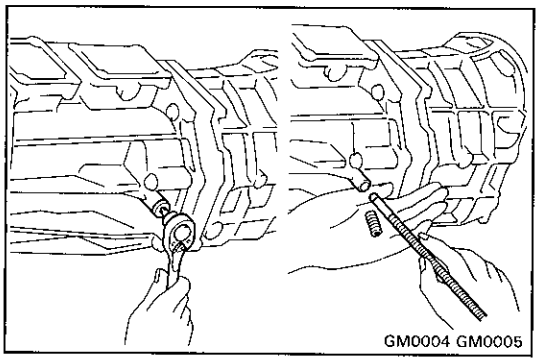
2. REMOVE TRANSFER
(See page TF-4)

3. REMOVE BACK-UP LIGHT SWITCH, SPEEDOMETER DRIVEN GEAR


GM0001

4. REMOVE CLUTCH HOUSING FROM TRANSMISSION CASE

Remove the nine bolts and clutch housing.

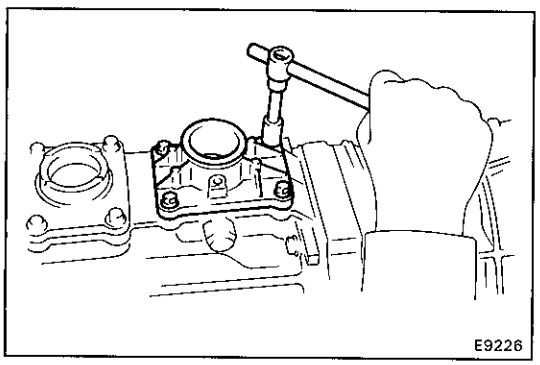

GM0004 GM0005

5. 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)

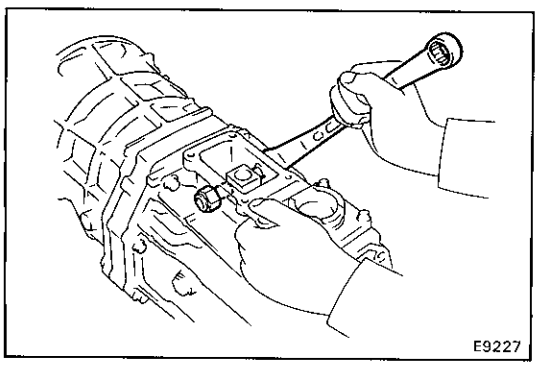
(b) Using a magnetic finger, remove the spring and ball.


E9226

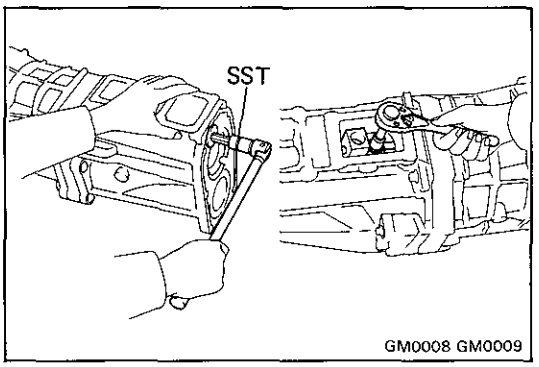
6. REMOVE SHIFT LEVER CONTROL RETAINER

(a) Remove four bolts and remove transmission shift lever control retainer.

(b) Remove four bolts and remove transfer shift lever control retainer.


E9227

7. REMOVE RESTRICT PINS

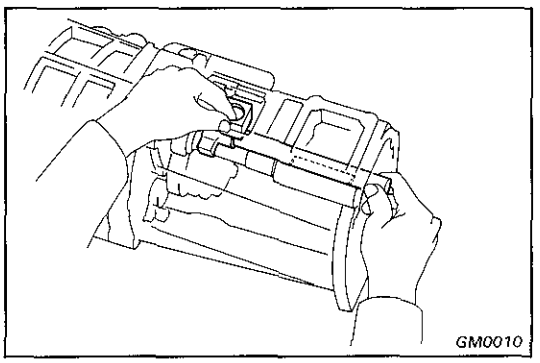


8. REMOVE TRANSFER ADAPTOR

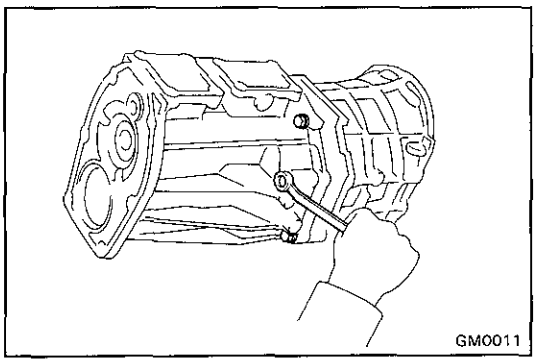
(a) Using SST, remove the plug from the transfer adaptor.

SST 09923-00010

(b) Remove the shift lever housing set bolt.



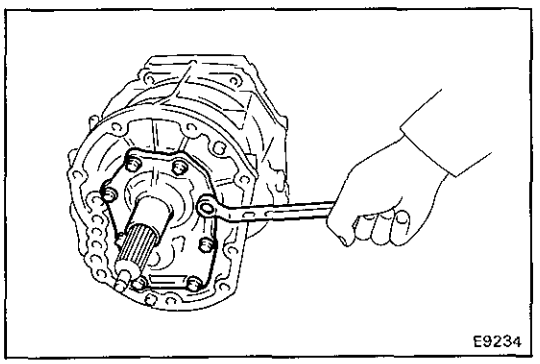
(c) Remove the shift lever shaft and housing.



(d) Remove the eight bolts.

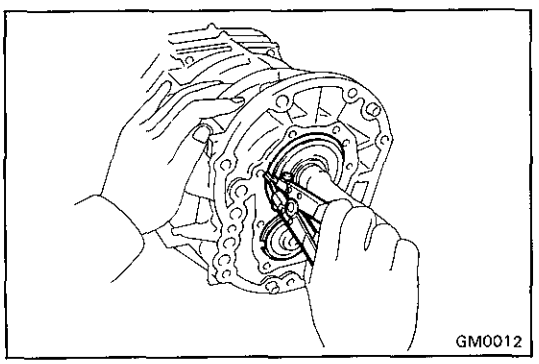
(e) Using a plastic hammer, remove the transfer adaptor.

(f) Remove the magnet from the transfer adaptor.

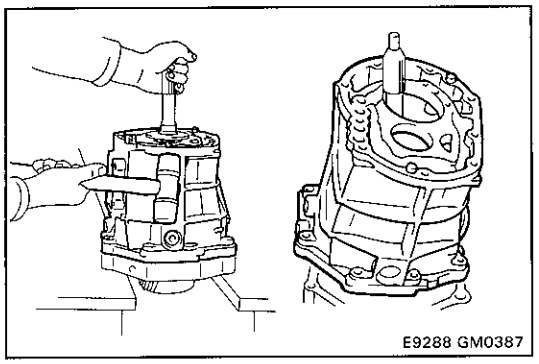


9. REMOVE FRONT BEARING RETAINER

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



10. REMOVE TWO BEARING SNAP RINGS

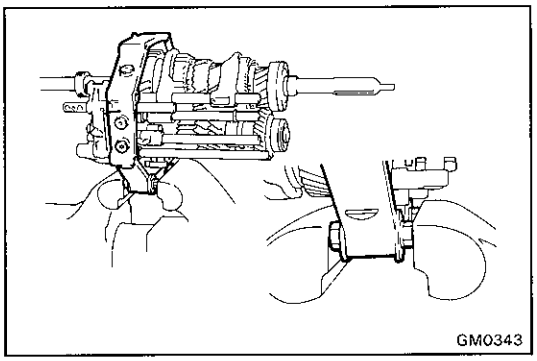


11. SEPARATE INTERMEDIATE PLATE FROM TRANSMISSION CASE

(a) Stand the transmission as shown.

(b) Using a plastic hammer, carefully tap off the transmission case.

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

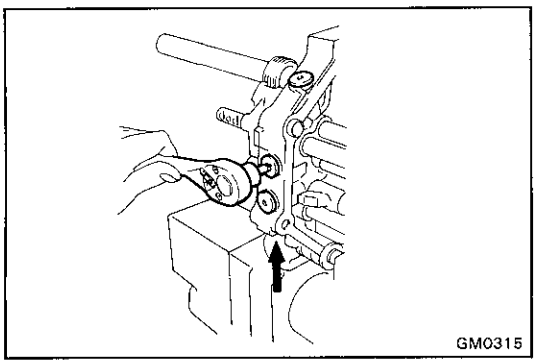


12. MOUNT INTERMEDIATE PLATE IN VISE

(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.



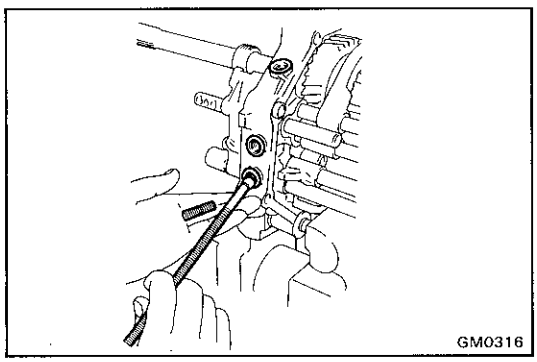
13. REMOVE STRAIGHT SCREW PLUGS, LOCKING BALLS AND SPRINGS

(a) Using a torx socket wrench, remove the plugs.

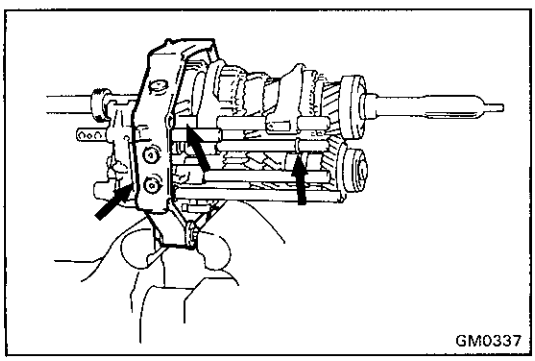
4-Speed: Three plugs

5-Speed: Four plugs

(Torx socket wrench T40 09042-00020)



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

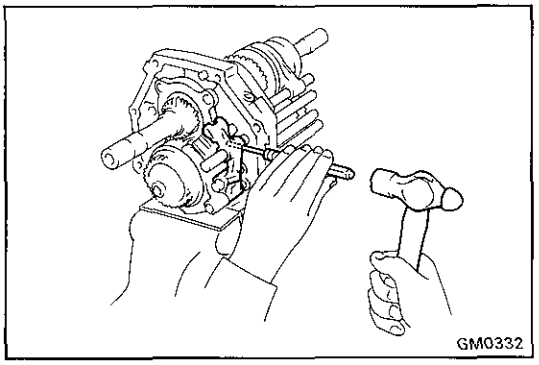


14. REMOVE SHIFT FORK SHAFT SNAP RINGS

Using two screwdrivers and a hammer, drive out snap rings.

4-Speed: Three snap rings

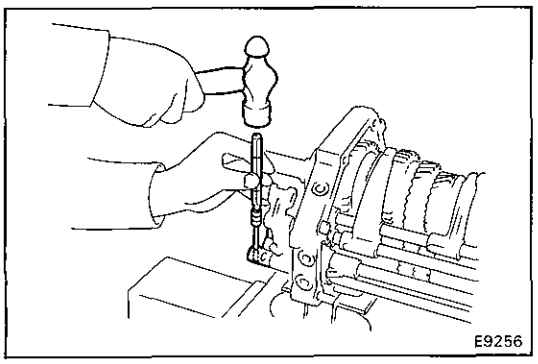
5-Speed: Four snap rings



15. REMOVE SHIFT FORK SHAFT NO.5

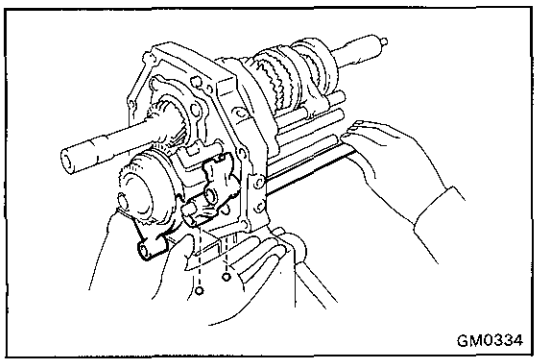
(a) Using a pin punch and a hammer, drive out the slotted spring pin.

(b) Remove the shift fork shaft No.5.

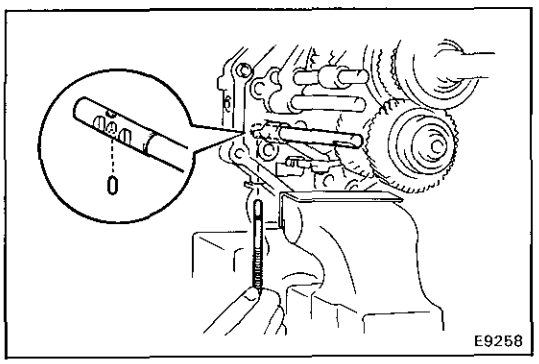


16. REMOVE SHIFT FORK NO.3, SHIFT FORK SHAFT NO.4 AND REVERSE SHIFT HEAD

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

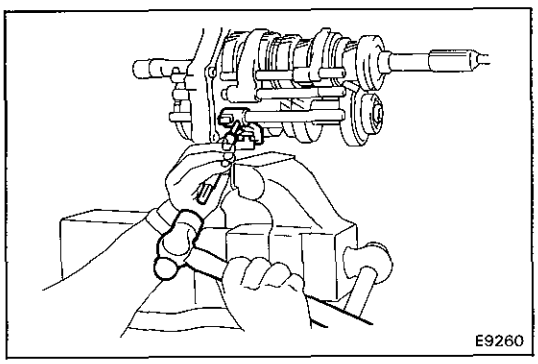


(b) Remove the shift fork No.3, shift fork shaft No.4 and reverse shift head.

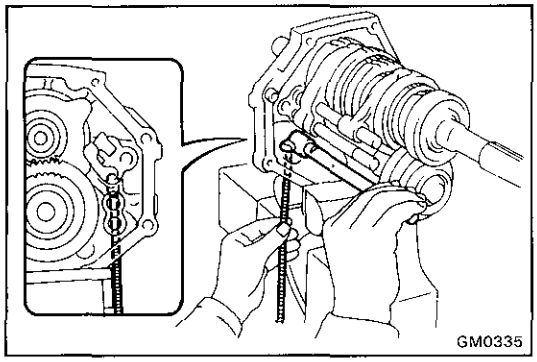


17. REMOVE REVERSE SHIFT ARM, REVERSE SHIFT FORK AND SHIFT FORK SHAFT NO.3

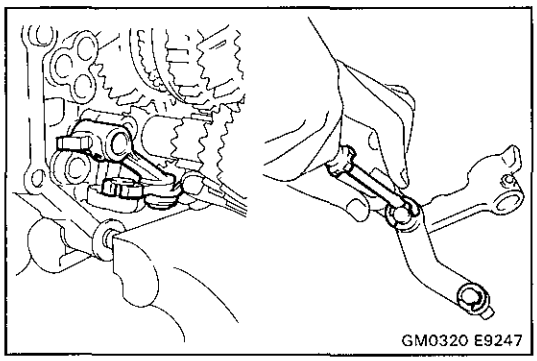
(a) Using a magnetic finger, remove the interlock pin No.4 from shift fork shaft No.3.



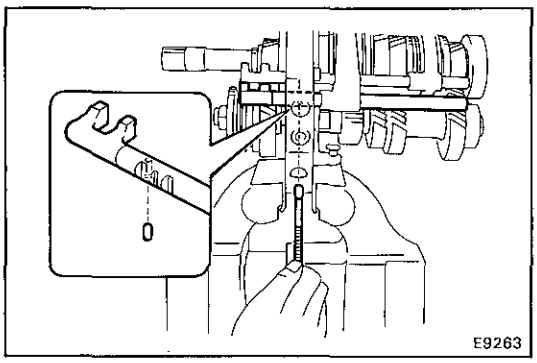
(b) Using a pin punch and a hammer, drive out the slotted spring pin.



(c) Remove shift fork shaft No.3.
(d) Remove interlock pin No.3.

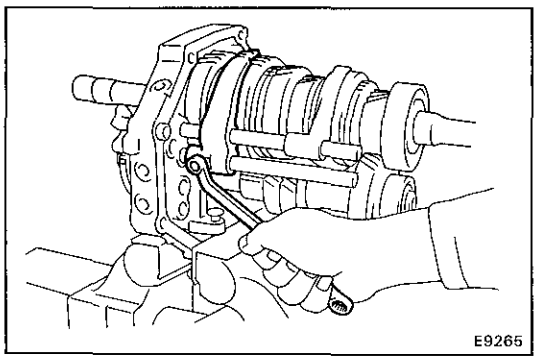


(e) Remove reverse shift arm and fork.
(f) Using a screwdriver, remove two E-rings.
(g) Separate shift arm, fork and shoe.

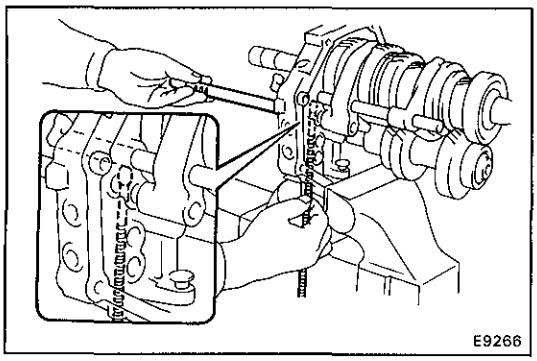


18. REMOVE SHIFT FORK SHAFTS NO.1, NO.2, SHIFT FORKS NO.1 AND NO.2

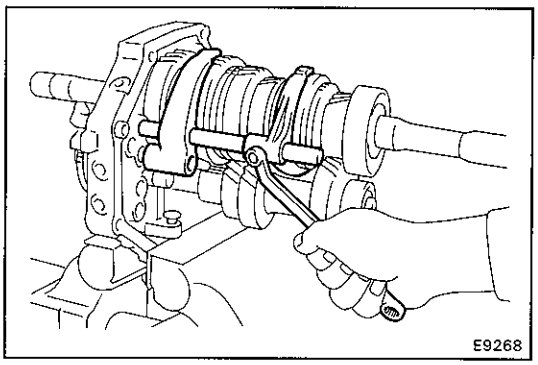
(a) Using a magnetic finger, remove interlock pin No.2 from shift fork shaft No.2.



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

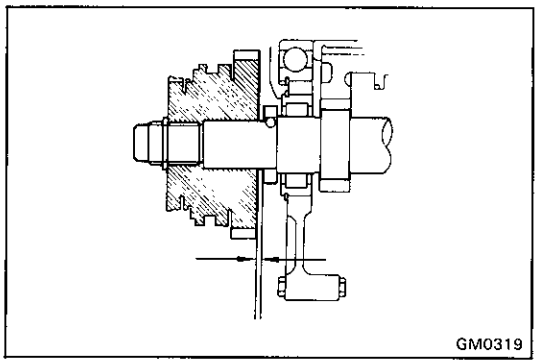


(c) Remove shift fork shaft No.1.
(d) Remove interlock pin No.1.



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

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

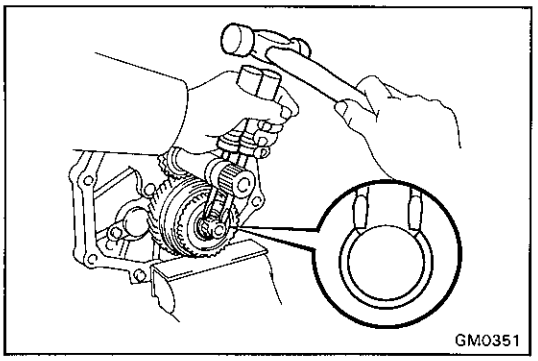


19. (5-Speed)
MEASURE COUNTER FIFTH GEAR THRUST CLEARANCE

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

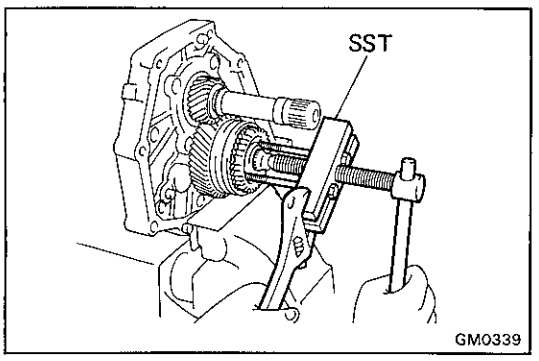
Standard clearance: 0.10 — 0.30 mm (0.0039 — 0.0118 in.)

Maximum clearance: 0.30 mm (0.0118 in.)



20.-1 (5-Speed)
REMOVE GEAR SPLINE PIECE NO.5, SYNCHRONIZER RING, NEEDLE ROLLER BEARINGS AND COUNTER FIFTH GEAR WITH HUB SLEEVE NO.3.

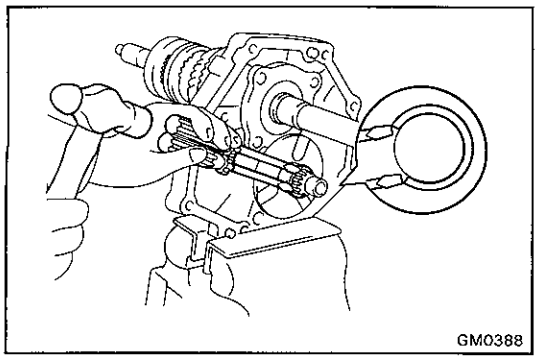
(a) Using two screwdrivers and a hammer, tap out the snap ring.



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

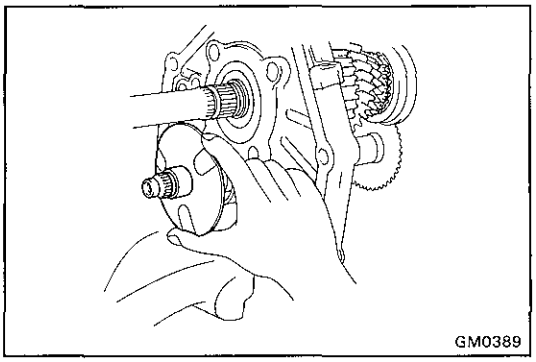
SST 09213-60017
(09213-00020, 09213-00030, 09213-00060)

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

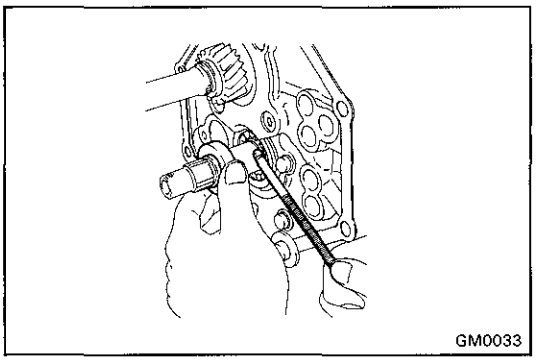


20.-2 (4-Speed)
REMOVE OIL SEPARATOR

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



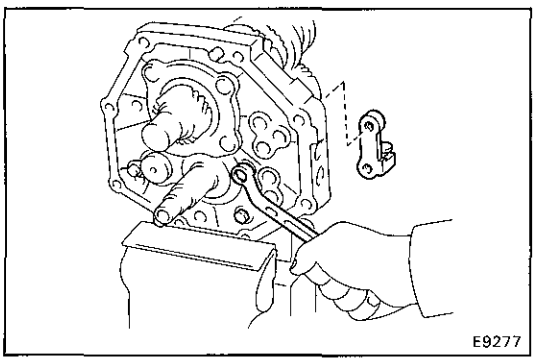
(b) Remove the oil separator.



21. (5-Speed)
REMOVE SPACER AND BALL

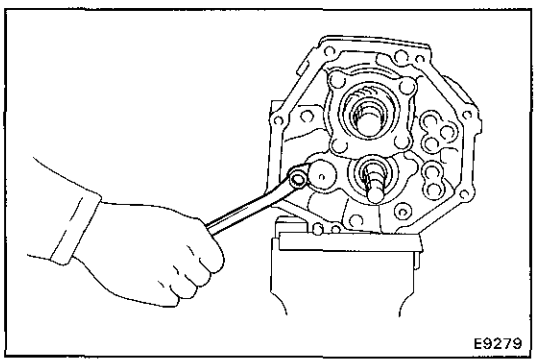
(a) Remove the spacer.

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



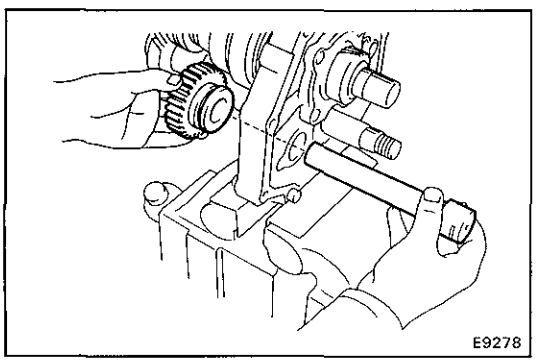
22. *REMOVE REVERSE SHIFT ARM BRACKET*

Remove the two bolts and the reverse shift arm bracket.

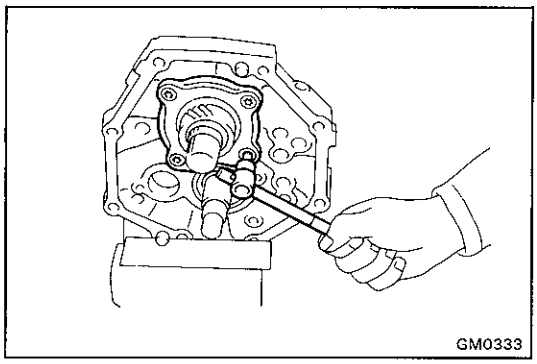


23. REMOVE REVERSE IDLER GEAR AND SHAFT

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



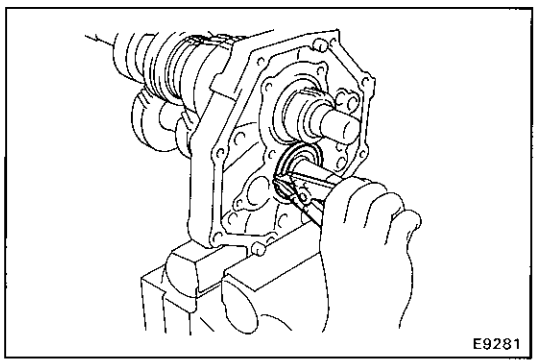
(b) Remove the reverse idler gear and shaft.



24. REMOVE REAR BEARING RETAINER

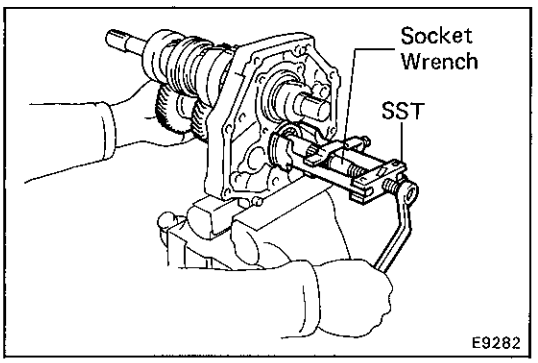
Using a torx socket wrench, remove the four bolts.

(Torx socket wrench T40 09042-00020)



25. REMOVE COUNTER GEAR

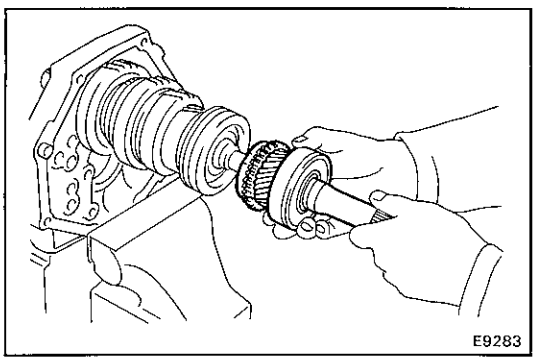
(a) Using a snap ring pliers, remove counter gear rear bearing snap ring.



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

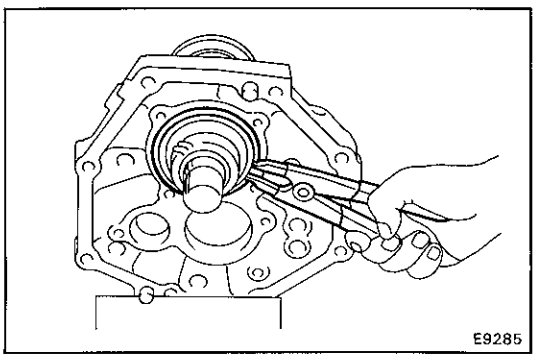
SST 09602-35011

(c) Remove counter gear.



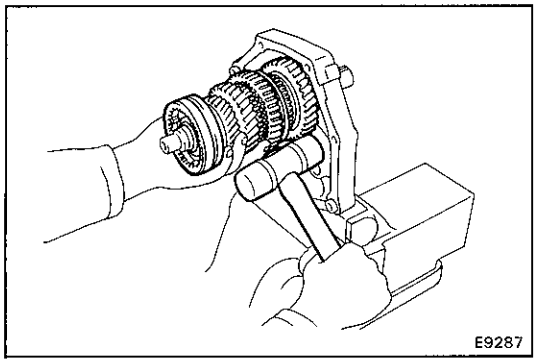
26. REMOVE INPUT SHAFT

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

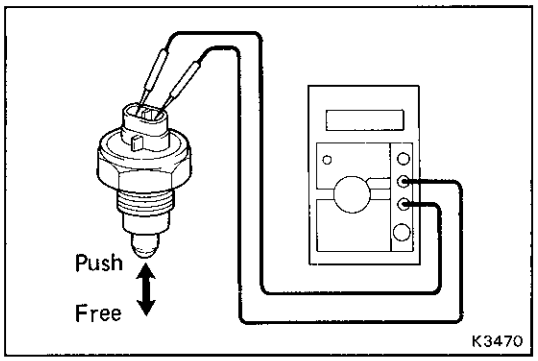


27. REMOVE OUTPUT SHAFT

(a) Using snap ring pliers, remove 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.



28. 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.