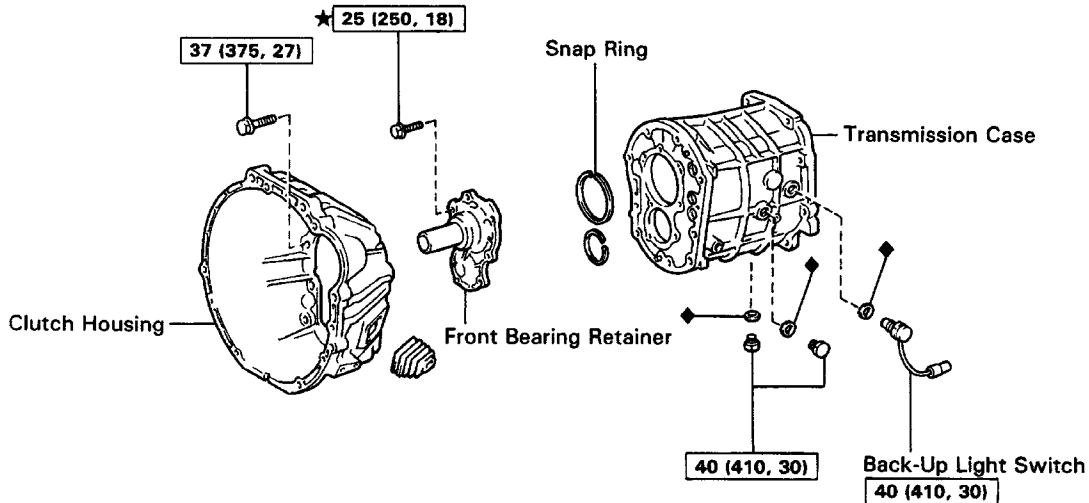
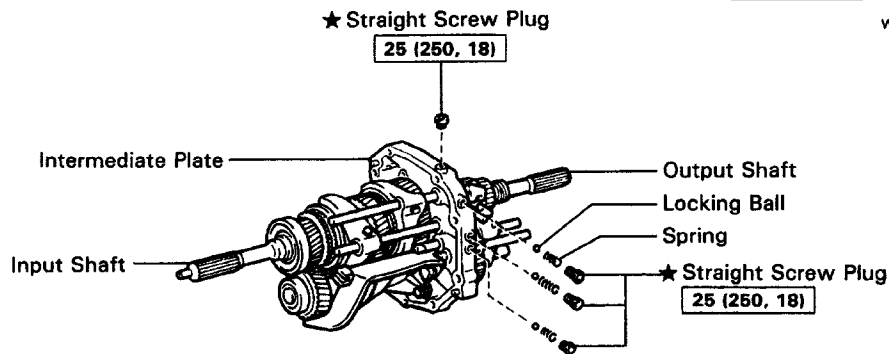


COMPONENT PARTS REMOVAL

COMPONENTS



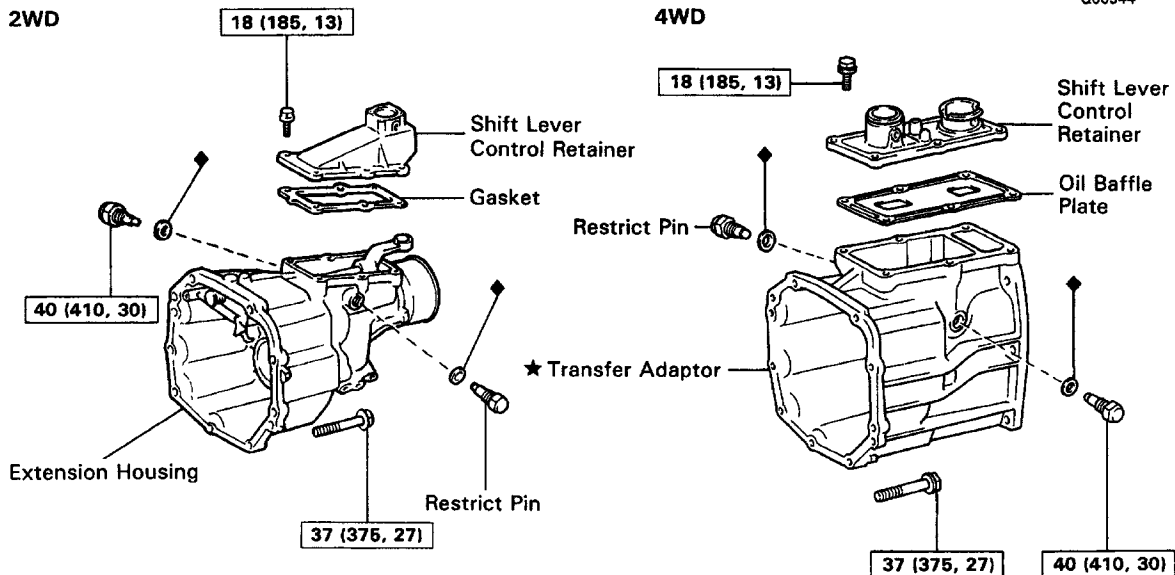
WM0319



Q00944

2WD

4WD



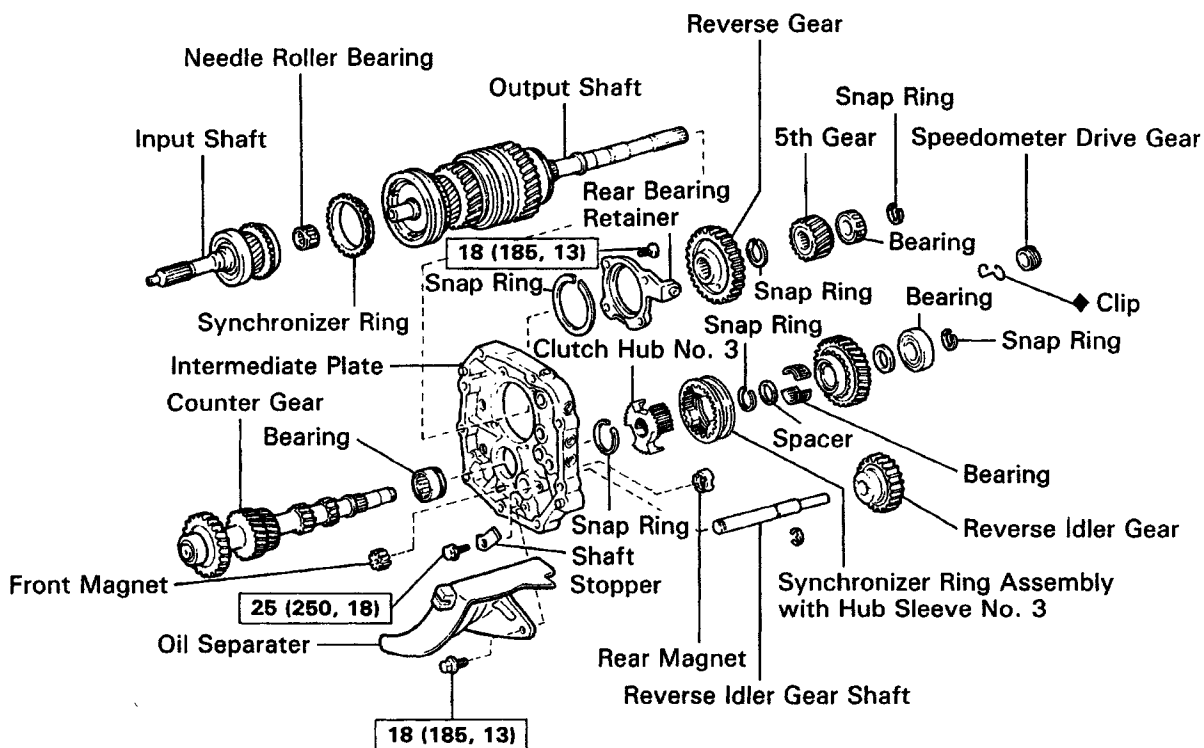
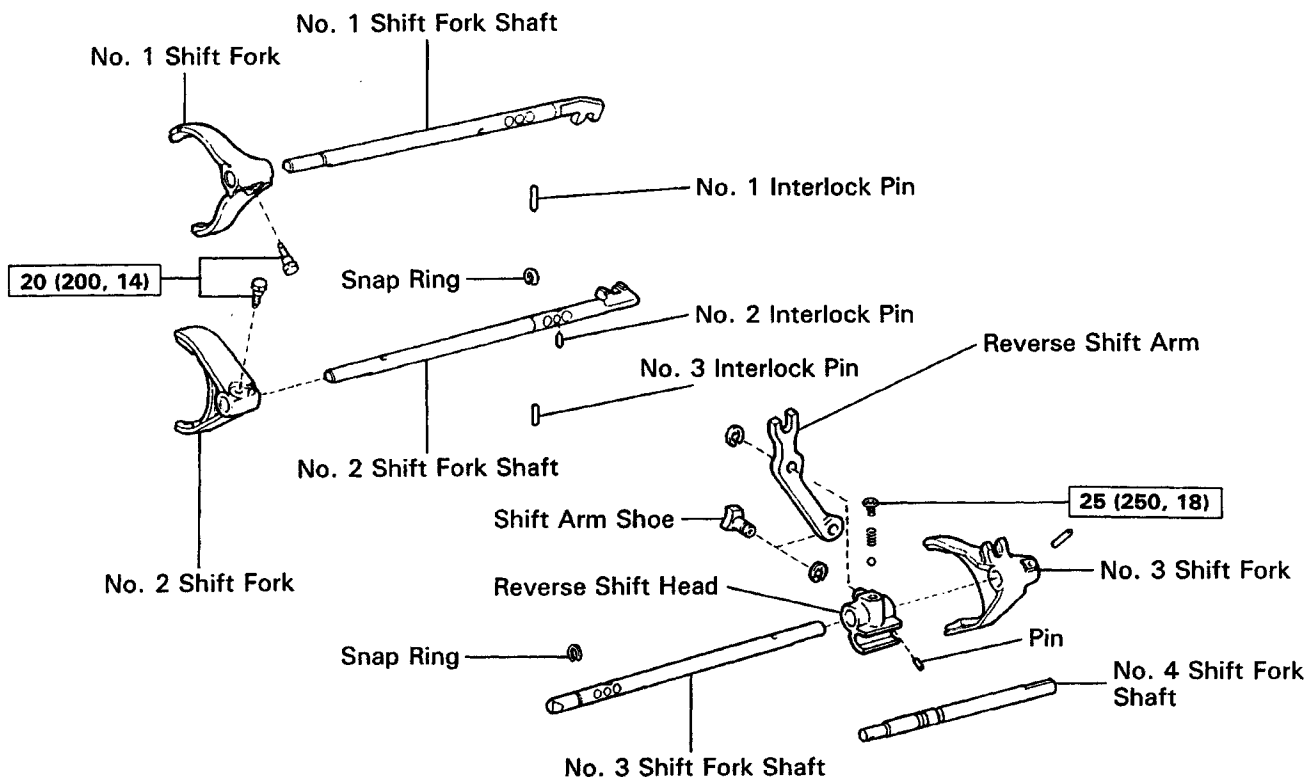
N·m (kgf·cm, ft·lbf) : Specified torque

Q01548

Q03188

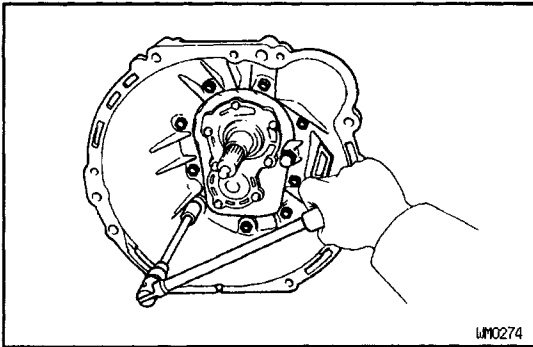
◆ Non-reusable part

★ Precoated part



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

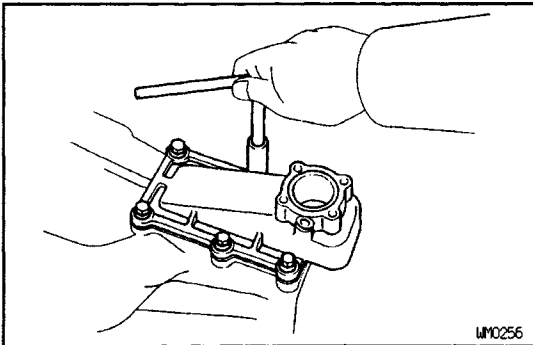
◆ Non-reusable part



BASIC SUBASSEMBLY SEPARATION

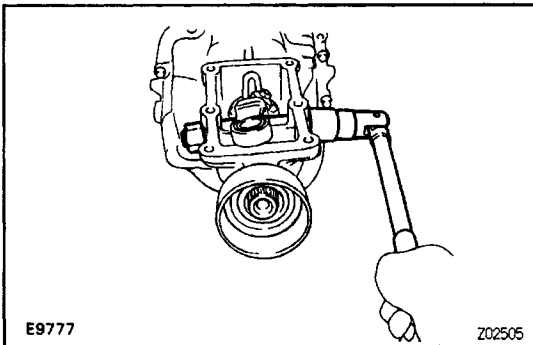
1. REMOVE BACK – UP LIGHT SWITCH, VEHICLE SPEED SENSOR (2WD) AND ENGINE REAR MOUNTING
2. REMOVE CLUTCH HOUSING FROM TRANSMISSION CASE

Remove the nine bolts and clutch housing from the transmission case.

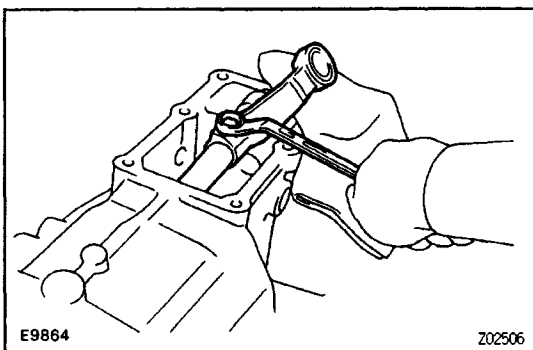


3. (2WD)
REMOVE EXTENSION HOUSING

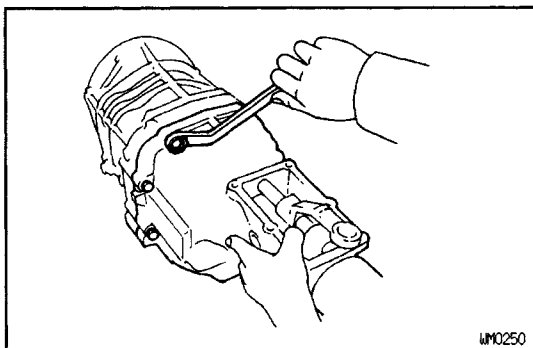
- (a) Remove the six bolts.
- (b) Remove the shift lever retainer and oil baffle plate.



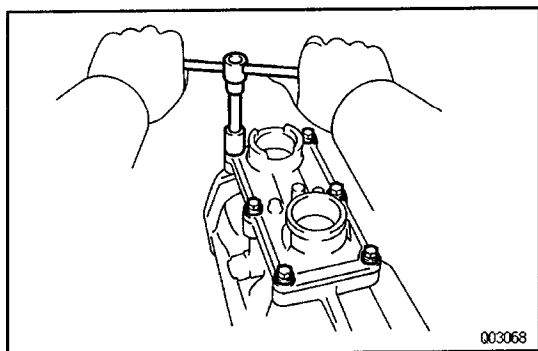
- (c) Remove the two restrict pins.



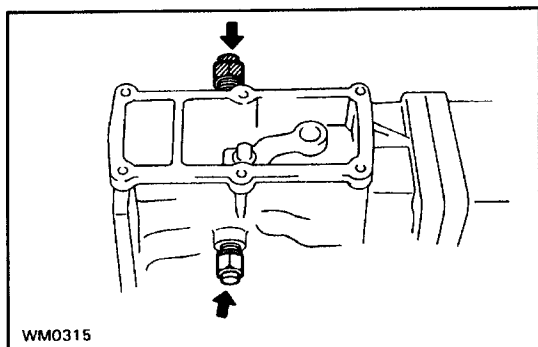
- (d) Remove the shift lever housing set bolt.



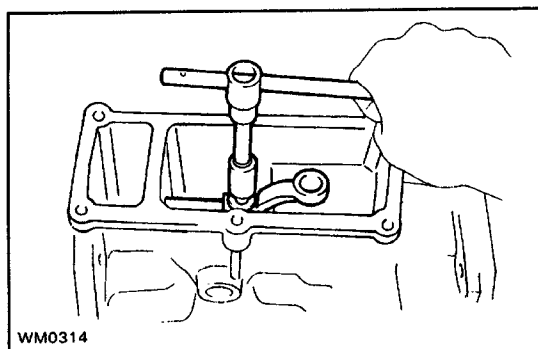
- (e) Remove the nine bolts.
- (f) Using a plastic hammer, tap the extension housing.
- (g) Disengage the shift and select lever from the shift head.
- (h) Pull out the extension housing.

**4. (4WD)****REMOVE TRANSFER ADAPTOR**

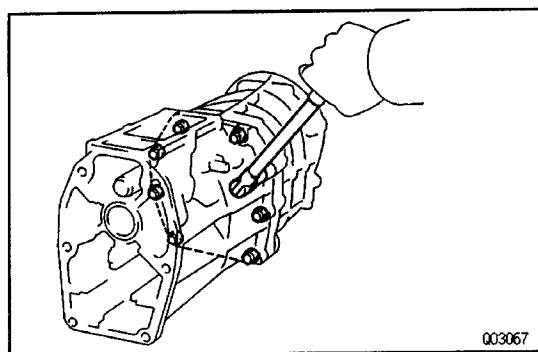
- (a) Remove the six bolts, shift lever retainer and gasket.
- (b) Remove the select return spring from the shift lever retainer.



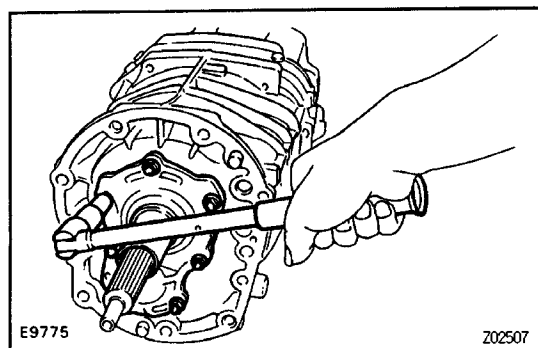
- (c) Remove the two restrict pins and gaskets.



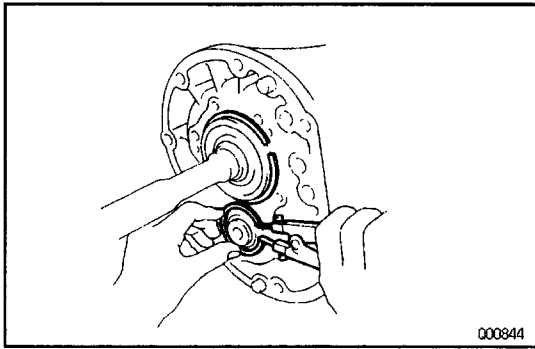
- (d) Remove the shift lever housing set bolt.



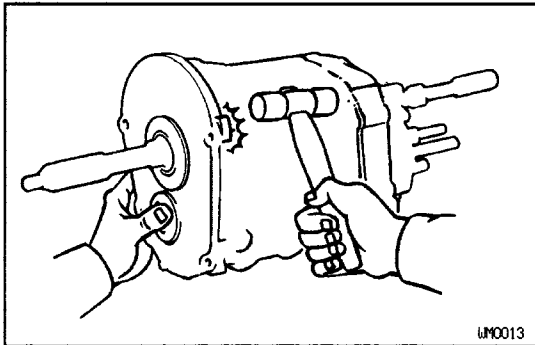
- (e) Remove the nine bolts.
- (f) Using a plastic hammer, tap the transfer adaptor.
- (g) Disengage the shift and select lever from the shift head.
- (h) Pull out the transfer adaptor.

**5. REMOVE FRONT BEARING RETAINER AND BEARING SNAP RINGS**

- (a) Remove the seven bolts and front bearing retainer.

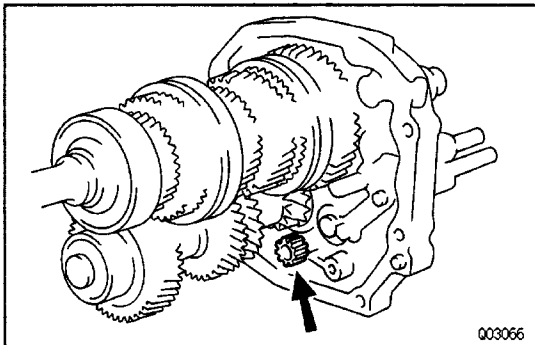


- (b) Using a snap ring pliers, remove the two bearing snap rings.

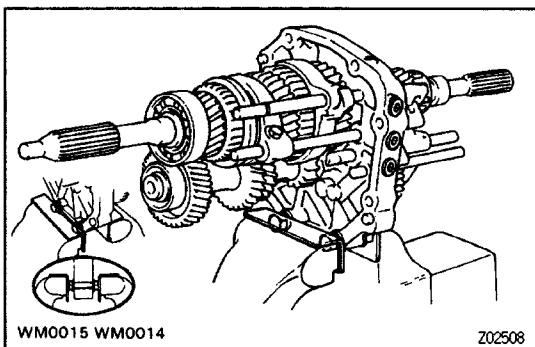


6. SEPARATE INTERMEDIATE PLATE FROM TRANSMISSION CASE

- (a) Using a plastic hammer, carefully tap the transmission case.
 (b) Pull the transmission case from the intermediate plate.



7. REMOVE FRONT MAGNET

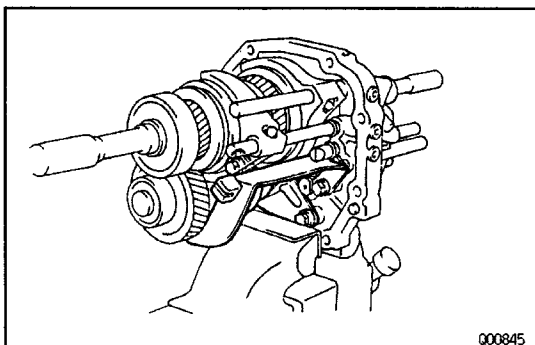


8. MOUNT INTERMEDIATE PLATE IN VISE

- (a) Use two long 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 the front tip surface of the nut are aligned.

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

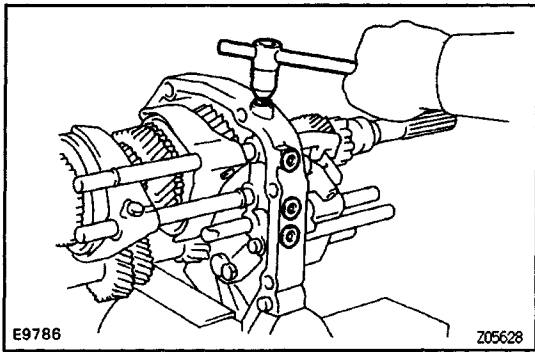


9. REMOVE OIL SEPARATOR

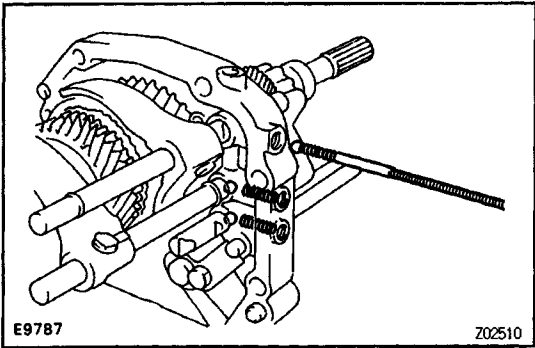
Remove the two bolts and oil receiver.

10. REMOVE LOCKING BALL AND SPRING

(a) Using a hexagon wrench, remove the four plugs.

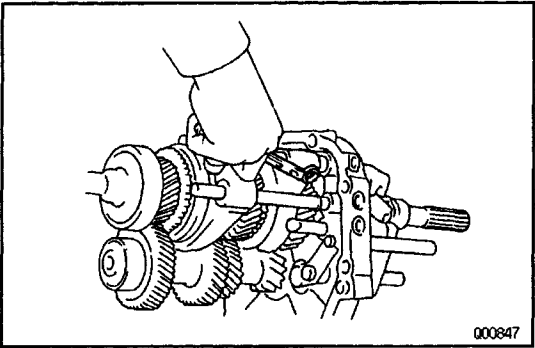


(b) Using a magnetic finger, remove the three springs and balls.

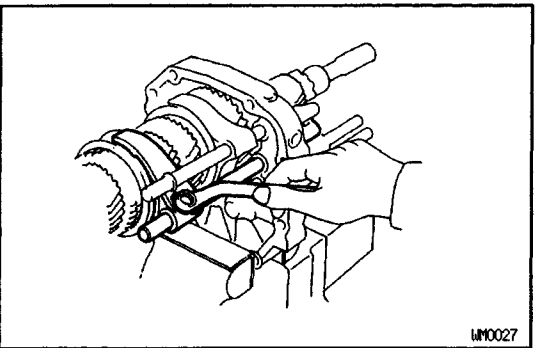


11. REMOVE SHIFT FORKS, SHIFT FORK SHAFTS AND REVERSE IDLER GEAR

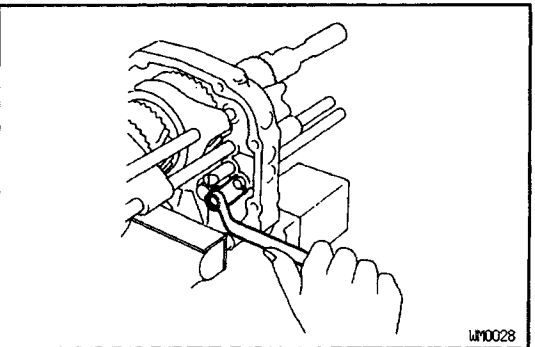
(a) Remove the No. 1 shift fork set bolt.

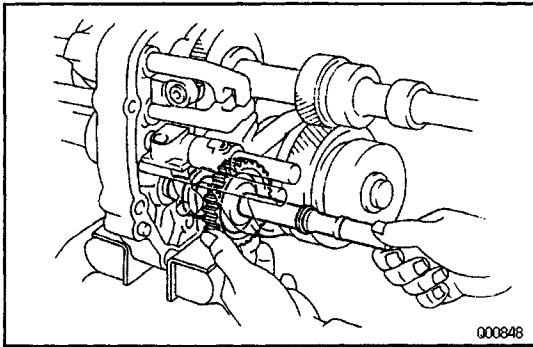


(b) Remove the No.2 shift fork set bolt.

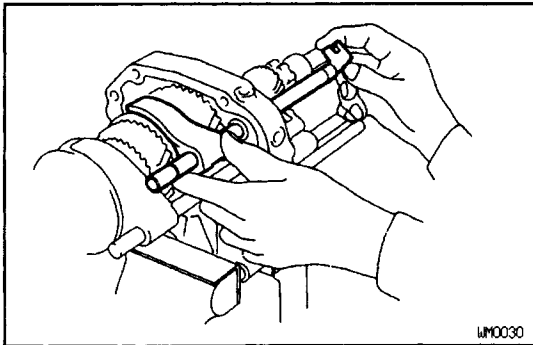


(c) Remove the reverse idler gear shift stopper.

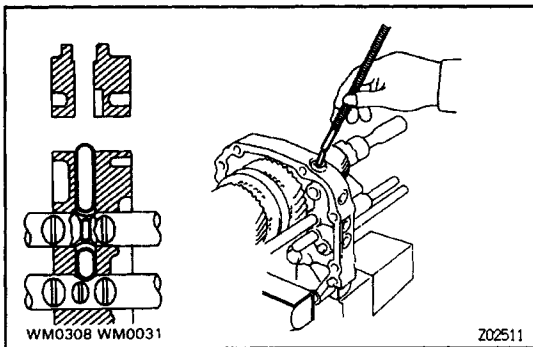




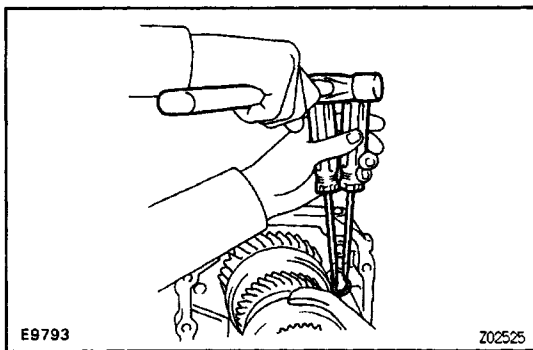
(d) Remove the reverse idler gear and shaft.



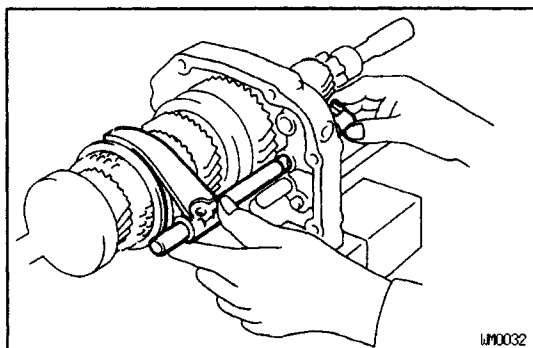
(e) Remove the No.1 shift fork and shaft.



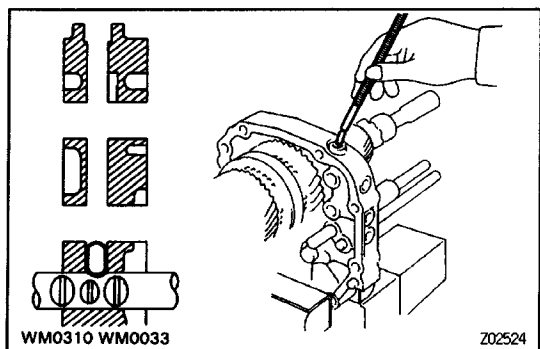
(f) Using a magnetic finger, remove the No-1 and No.2 interlock pins.



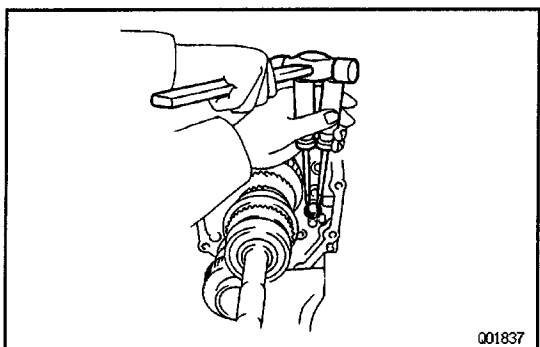
(g) Using two screwdrivers and a hammer, tap out the snap ring from the No.2 fork shaft.



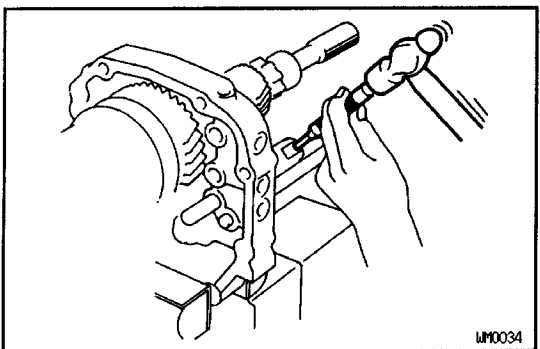
(h) Remove the No.2 shift fork and shaft.



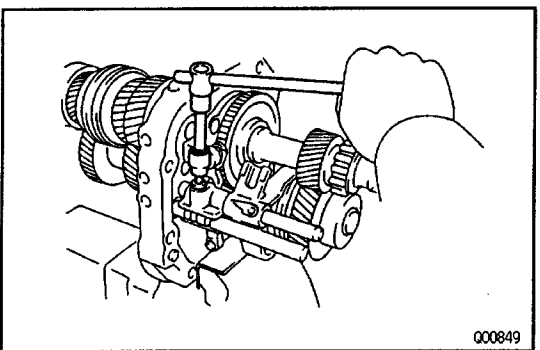
- (i) Using a magnetic finger, remove the No.3 interlock pin.



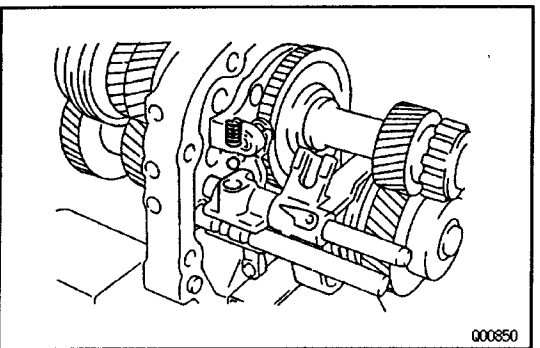
- (j) Using two screwdrivers and a hammer, tap out the snap ring from the No.3 fork shaft.



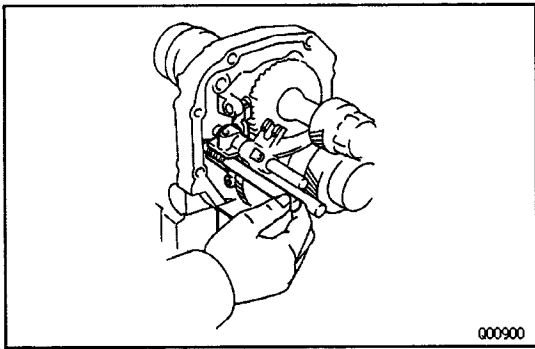
- (k) Using a pin punch and hammer, drive out the slotted spring pin from the No.3 shift fork.



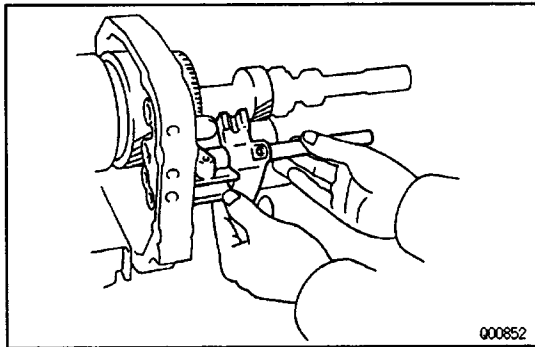
- (l) Using a hexagon wrench, remove the plug.



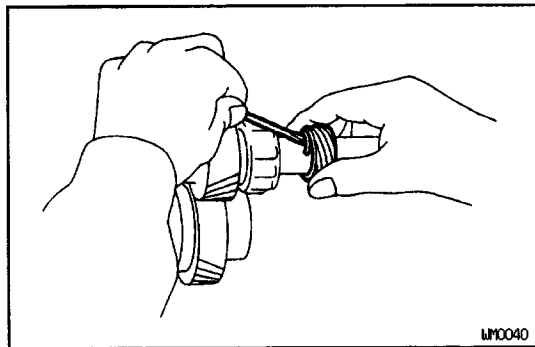
- (m) Using a magnetic finger, remove the spring and ball.



- (n) Pull out the No.4 shift fork shaft.
- (o) Remove the interlock pin.



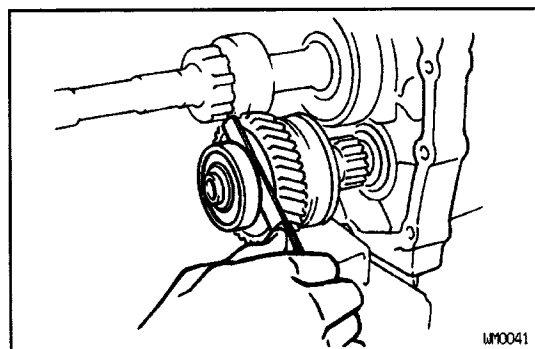
- (p) Remove the No.3 shift fork, fork shaft and reverse shift arm with the pin.



12. (2WD)

REMOVE SPEED SENSOR DRIVE GEAR

Pry out both ends of the clip and remove the drive gear.



13. INSPECT COUNTER FIFTH GEAR THRUST CLEARANCE

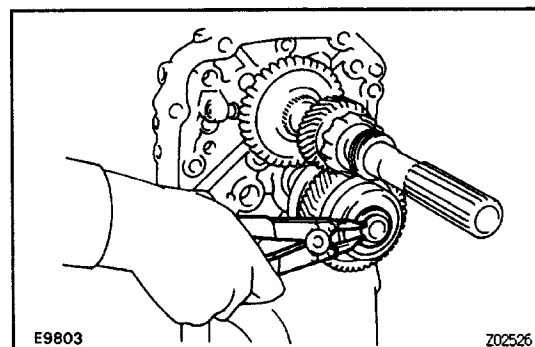
Using feeler gauge, measure the counter 5th gear thrust clearance.

Standard clearance:

0.10–0.41 mm (0.0039–0.0161 in.)

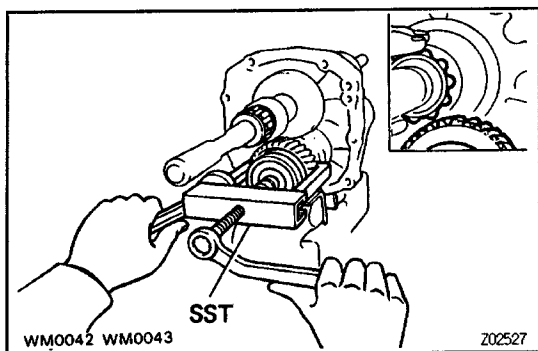
Maximum clearance:

0.46 mm (0.0181 in.)



14. REMOVE COUNTER REAR BEARING, SPACER, COUNTER FIFTH GEAR AND NEEDLE ROLLER BEARING

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



(b) Using SST, remove the rear bearing, spacer, 5th gear and bearing.

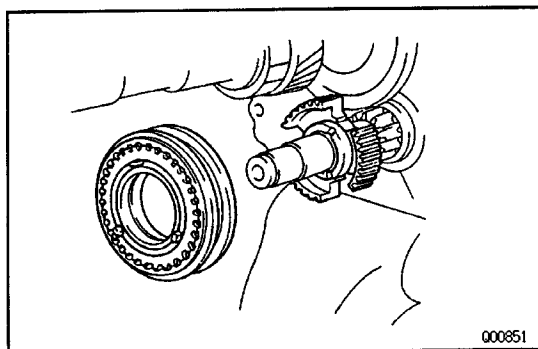
SST 09213-36020

NOTICE: Be careful not to catch the output shaft rear bearing roller on the counter 5th gear.

(c) Remove the spacer.

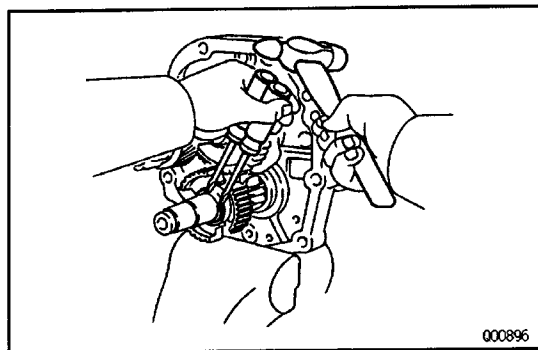
15. REMOVE SYNCHRONIZER RING ASSEMBLY WITH NO.3 HUB SLEEVE AND NO.3 CLUTCH HUB

(a) Remove the synchronizer ring assembly with No.3 hub sleeve from the No.3 clutch hub.



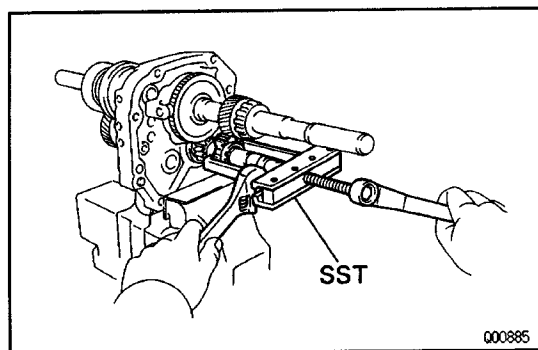
(b) Remove the spacer.

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

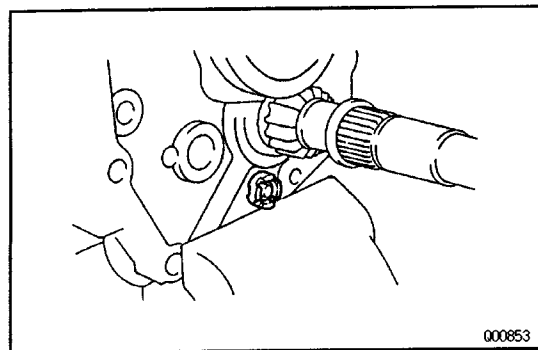


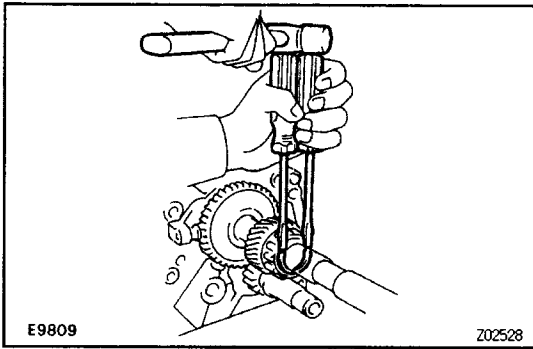
(d) Using SST, remove the No.3 clutch hub.

SST 09213-36020



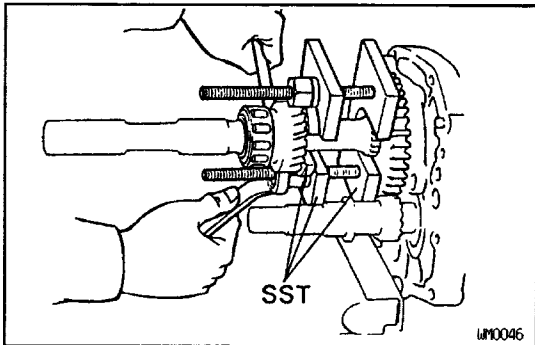
16. REMOVE REAR MAGNET



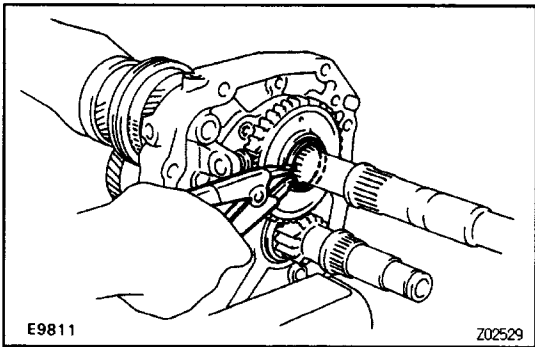


17. REMOVE OUTPUT SHAFT REAR BEARING AND FIFTH GEAR

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

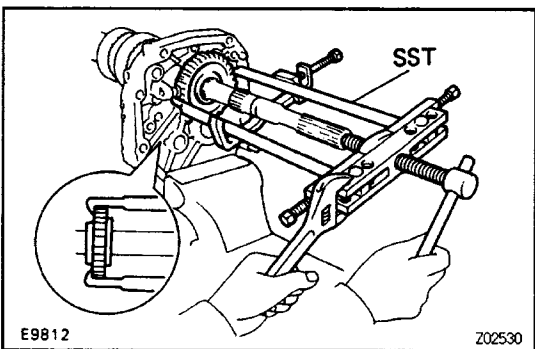


- (b) Using SST, remove the rear bearing and 5th gear.
SST 09312-20011 (09313-00030, 09313-00040, 09313-00050)

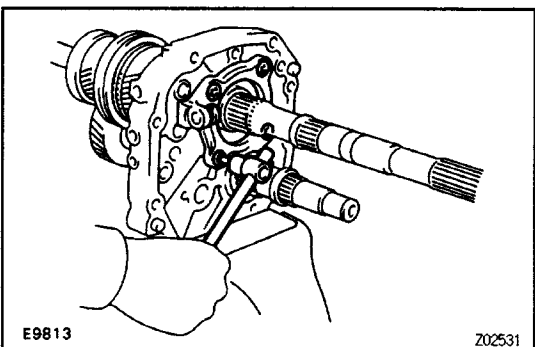


18. REMOVE REVERSE GEAR

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

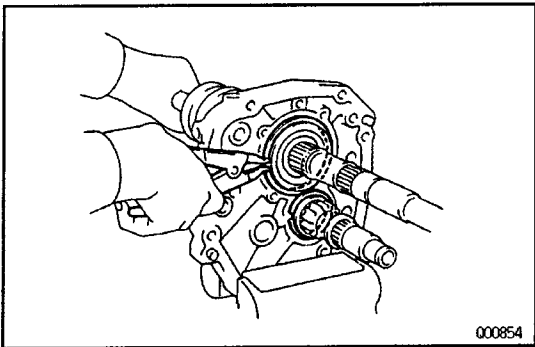


- (b) Using SST, remove the reverse gear.
SST 09950-20017

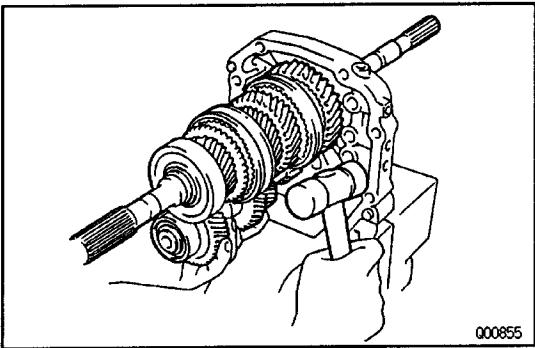


19. REMOVE CENTER BEARING RETAINER

- (a) Using a torx socket wrench, unscrew the torx screws and remove the retainer.
Torx wrench T40 09042-00020



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



20. REMOVE OUTPUT SHAFT AND COUNTER GEAR AS A UNIT FROM INTERMEDIATE PLATE

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