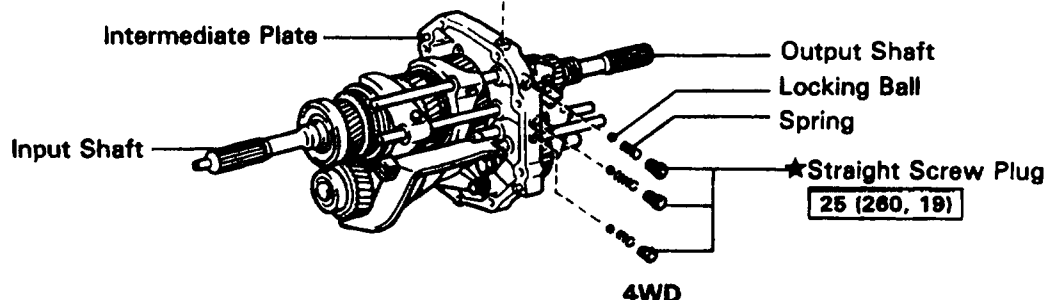
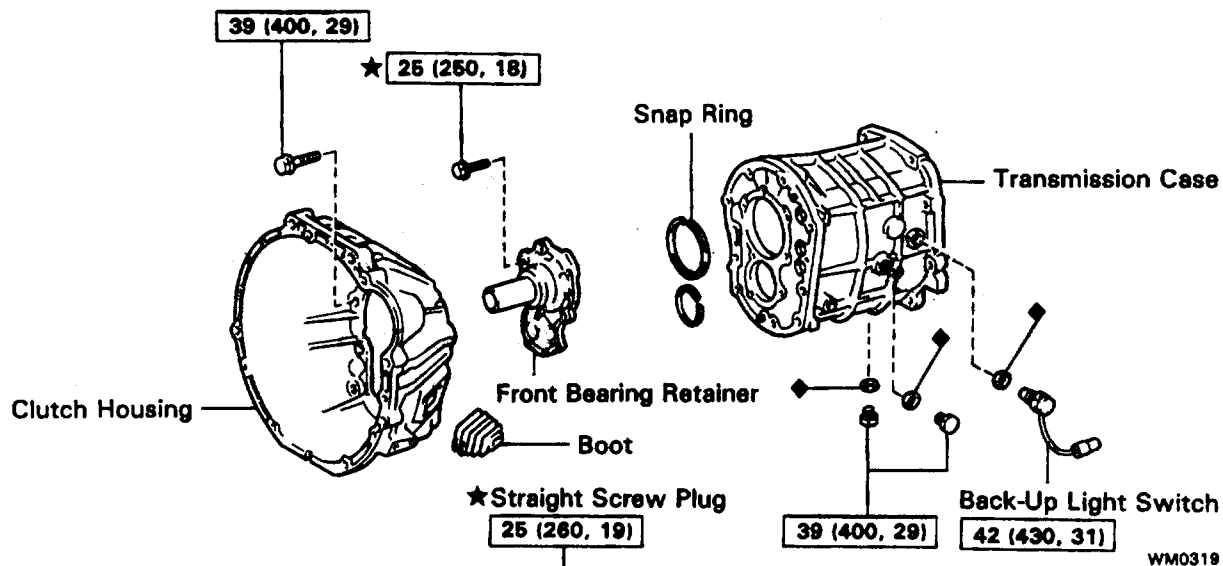
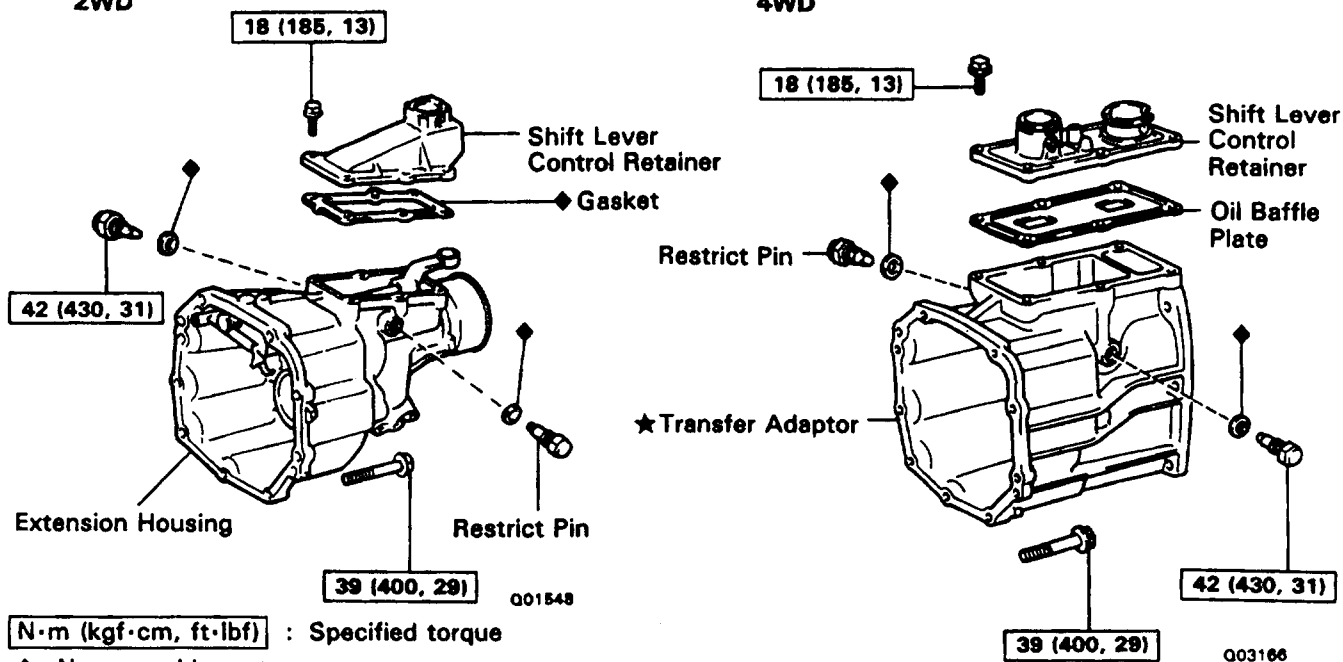


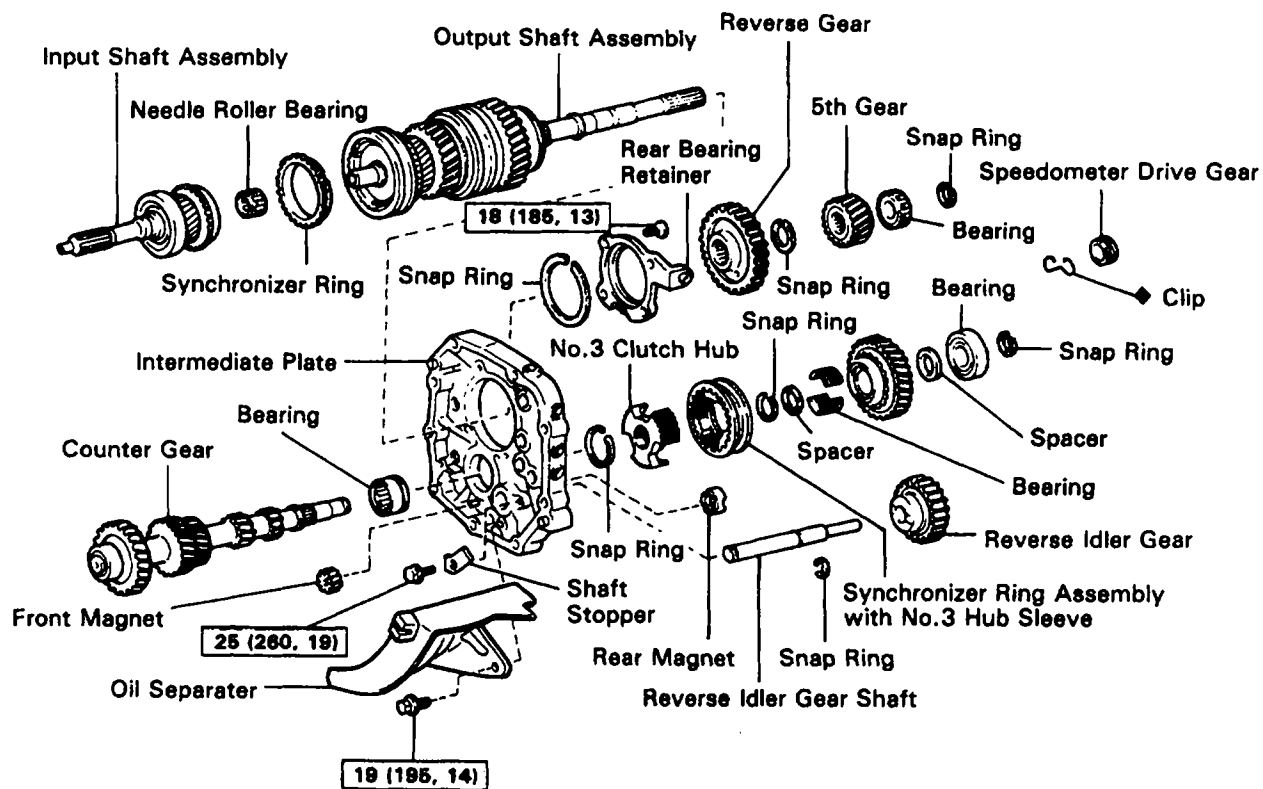
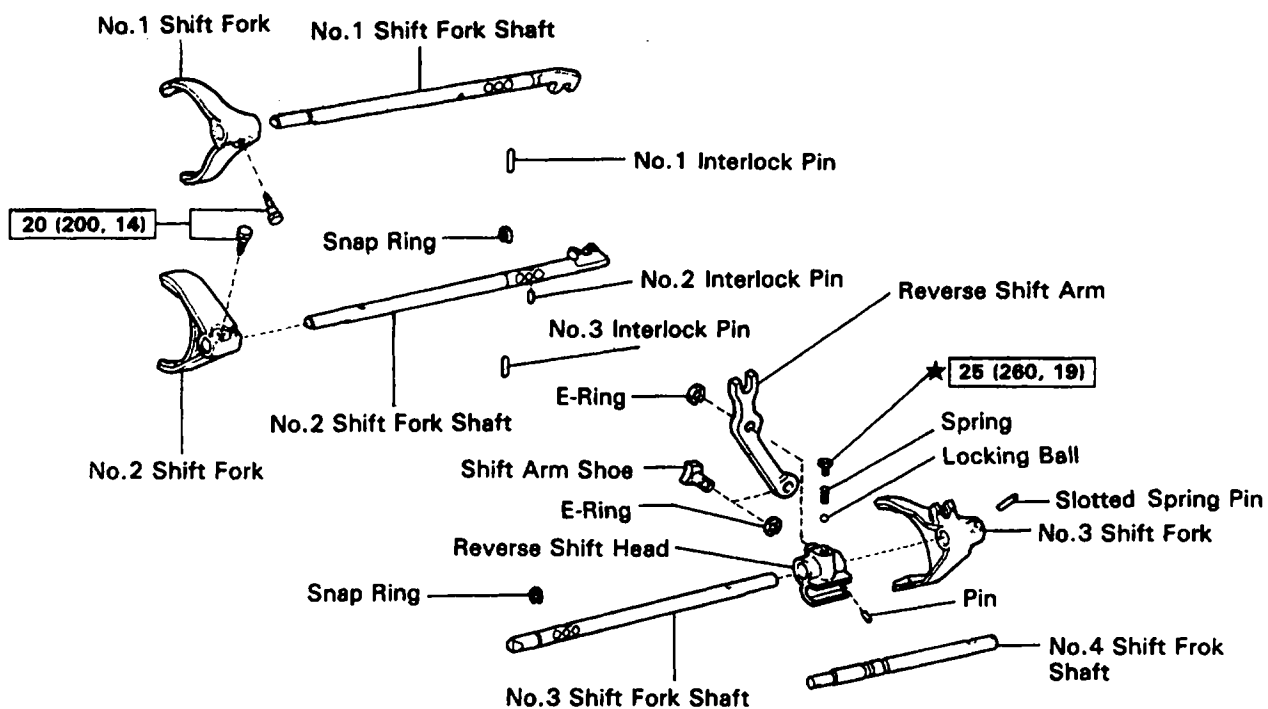
# COMPONENT PARTS REMOVAL COMPONENTS



2WD

4WD



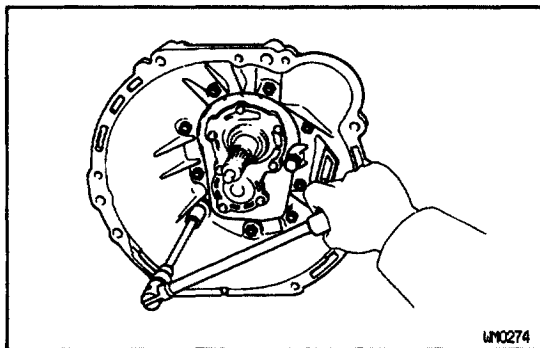


N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

★ Precoated part

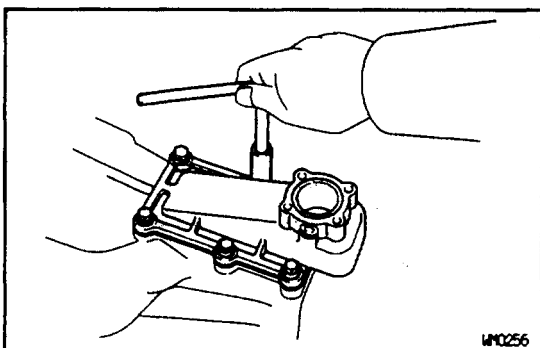
Q00934  
Q00939



## BASIC SUBASSEMBLY SEPARATION

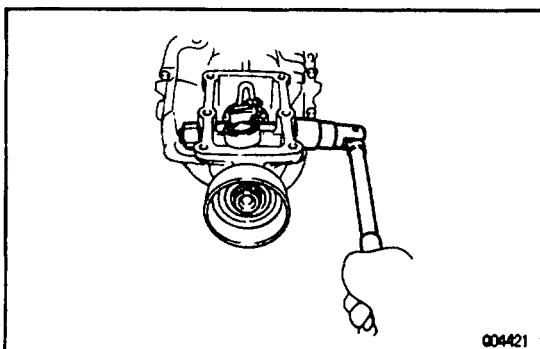
1. REMOVE BACK-UP LIGHT SWITCH, VEHICLE SPEED SENSOR AND ENGINE REAR MOUNTING
2. REMOVE CLUTCH HOUSING FROM TRANSMISSION CASE

Remove the 9 bolts and clutch housing from the transmission case.

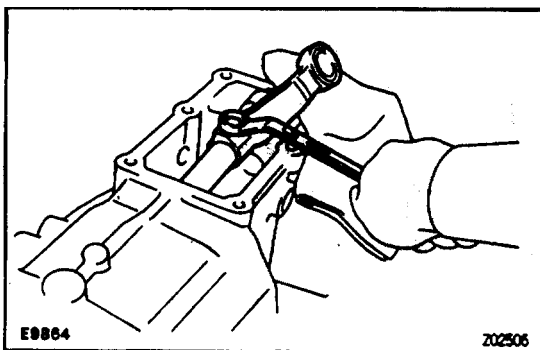


3. 2WD:  
REMOVE EXTENSION HOUSING

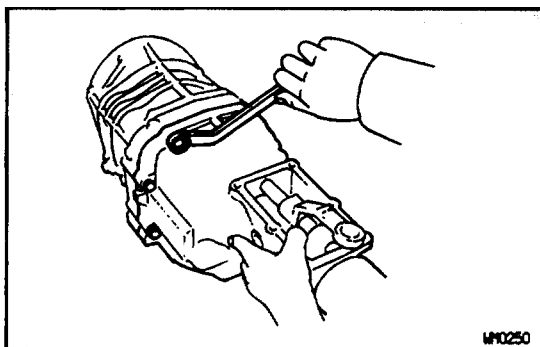
- (a) Remove the 6 bolts.
- (b) Remove the shift lever retainer and gasket.



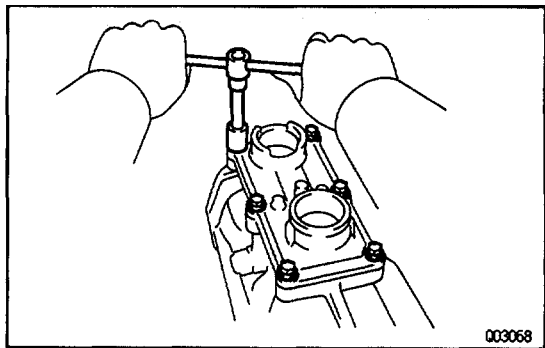
- (c) Remove the 2 restrict pins.



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

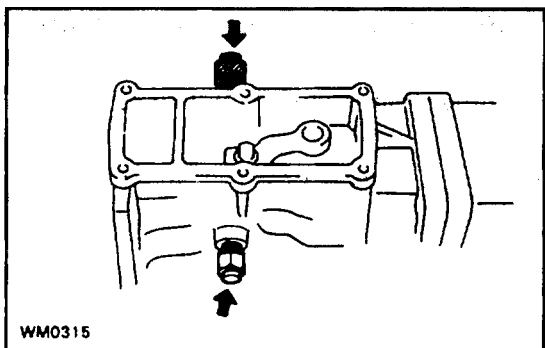


- (e) Remove the 9 bolts.
- (f) Using a plastic hammer, tap the extension housing.
- (g) Disengage the shift and select lever from the shift head.
- (h) Pull out the extension housing.

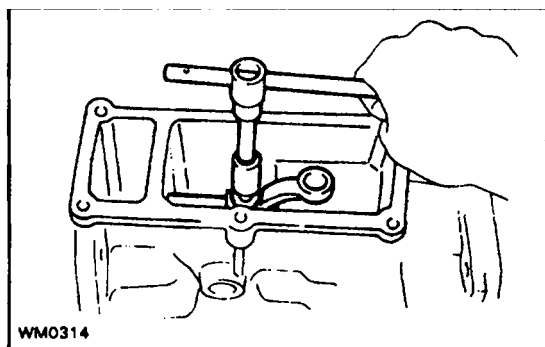


**4. 4WD:  
REMOVE TRANSFER ADAPTOR**

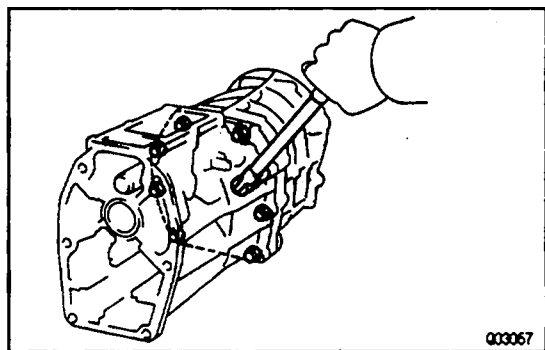
- (a) Remove the 6 bolts, shift lever retainer and oil baffle plate.
- (b) Remove the select return spring from the shift lever retainer.



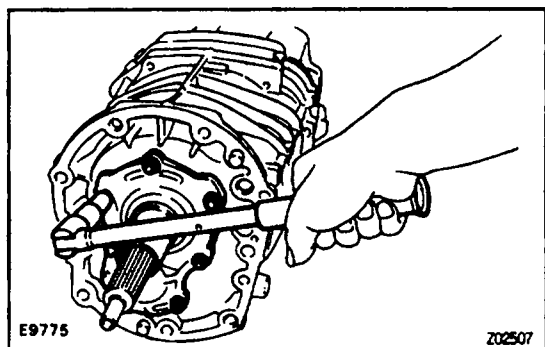
- (c) Remove the 2 restrict pins and gaskets.



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

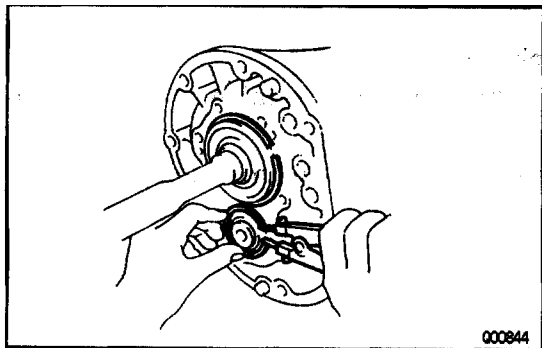


- (e) Remove the 8 bolts.
- (f) Using a plastic hammer, tap the transfer adaptor.
- (g) Disengage the shift and select lever from the shift head.
- (h) Pull out the transfer adaptor.

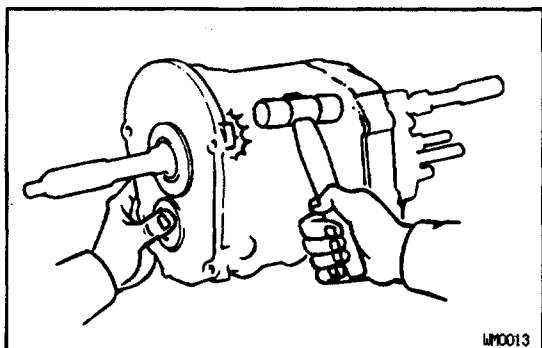


**5. REMOVE FRONT BEARING RETAINER AND BEARING SNAP RINGS**

- (a) Remove the 7 bolts and front bearing retainer.

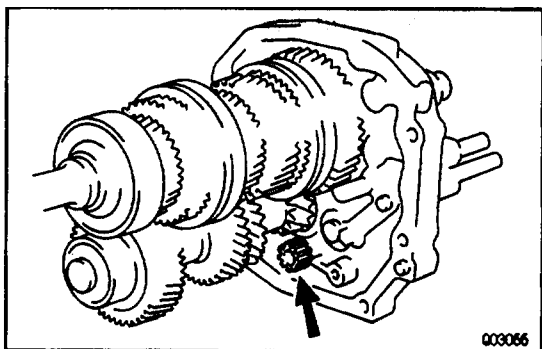


- (b) Using a snap ring expander, remove the 2 bearing snap rings.

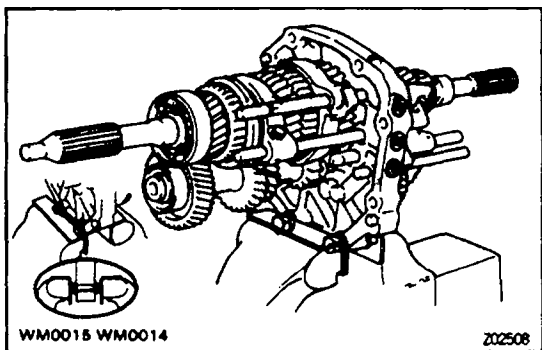


## 6. SEPARATE INTERMEDIATE PLATE FROM TRANSMISSION CASE

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



## 7. REMOVE FRONT MAGNET

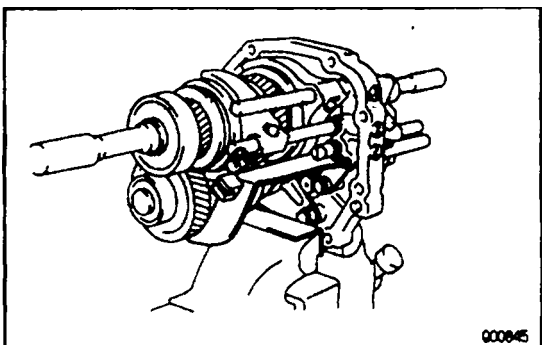


## 8. MOUNT INTERMEDIATE PLATE IN VISE

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

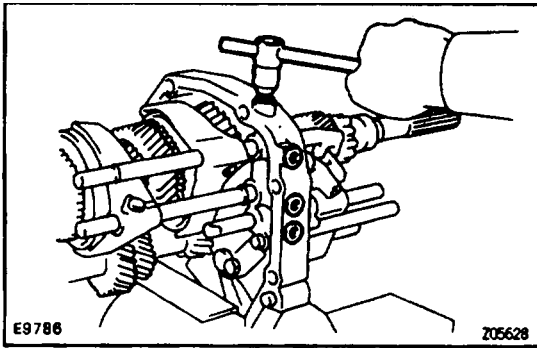
**NOTICE: Increase or decrease plate washers so that the bolt tip does not stand proud of the nut.**

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

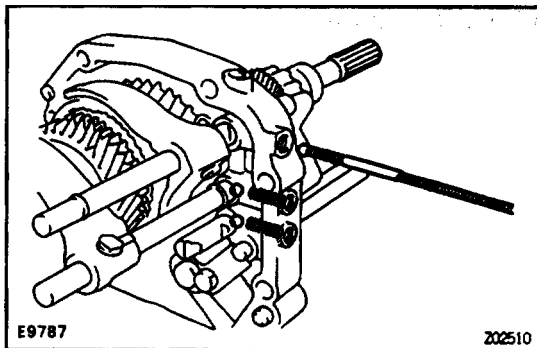


## 9. REMOVE OIL SEPARATOR

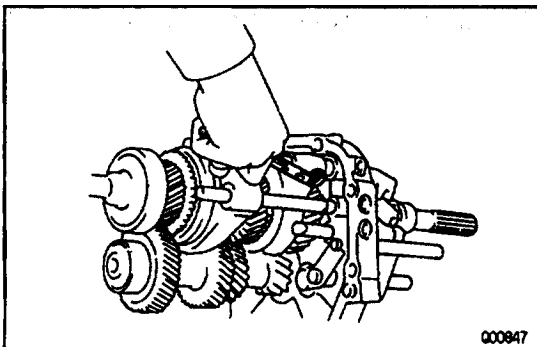
Remove the 2 bolts and oil separator.

**10. REMOVE LOCKING BALL AND SPRING**

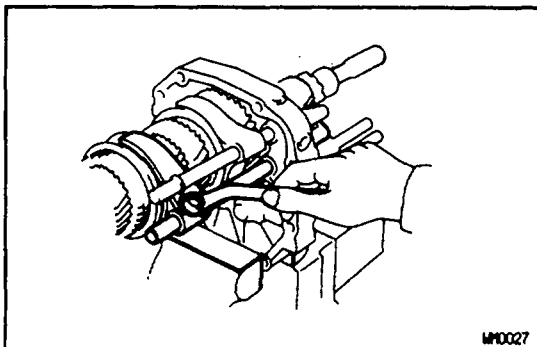
- (a) Using a hexagon wrench, remove the 4 plugs.



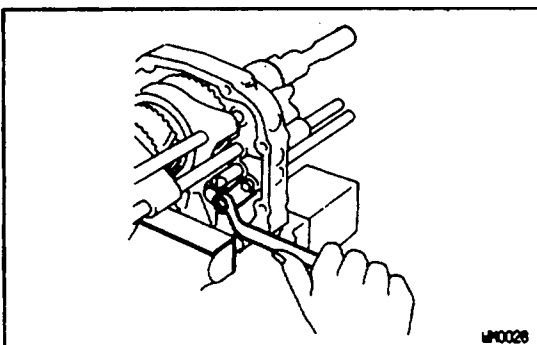
- (b) Using a magnetic finger, remove the 3 springs and balls.

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

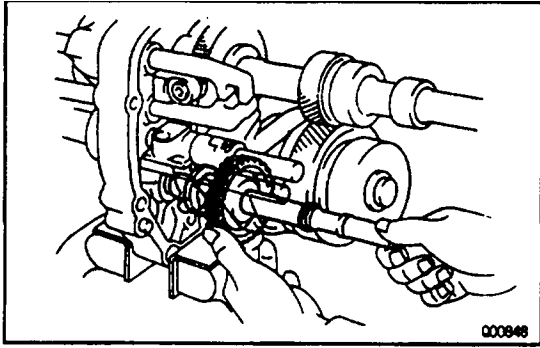
- (a) Remove the No.1 shift fork set bolt.



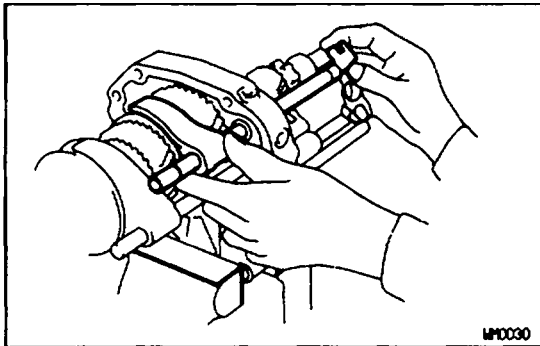
- (b) Remove the No.2 shift fork set bolt.



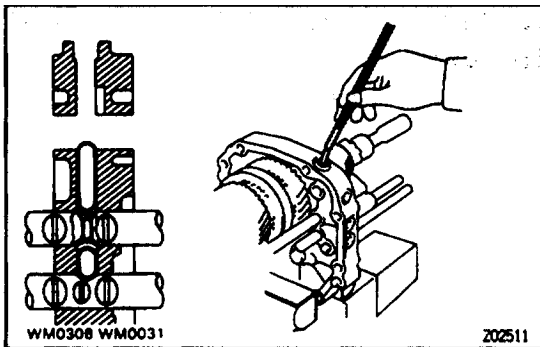
- (c) Remove the bolt and reverse idler gear shaft stopper.



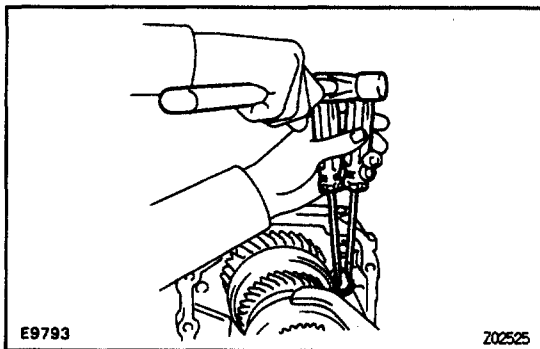
(d) Remove the reverse idler gear and shaft.



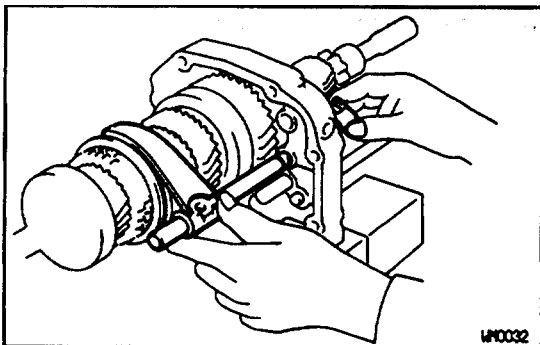
(e) Remove the No.1 shift fork and shaft.



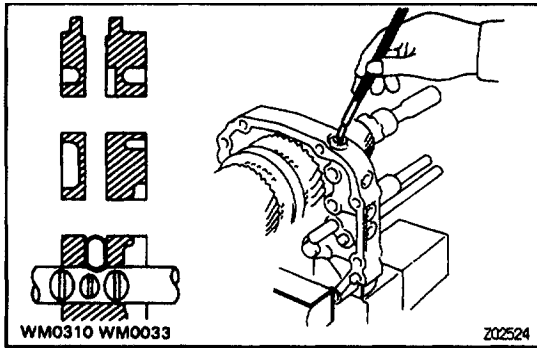
(f) Using a magnetic finger, remove the No.1 and No.2 interlock pins.



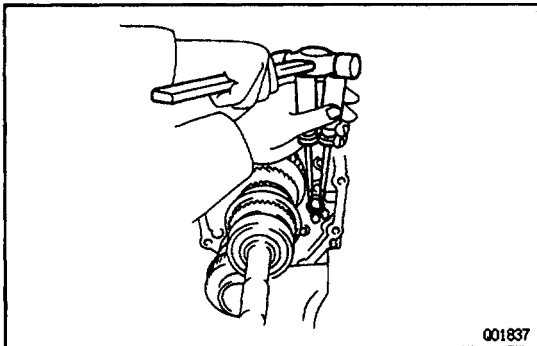
(g) Using 2 screwdrivers and a hammer, tap out the snap ring from the No.2 shift fork shaft.



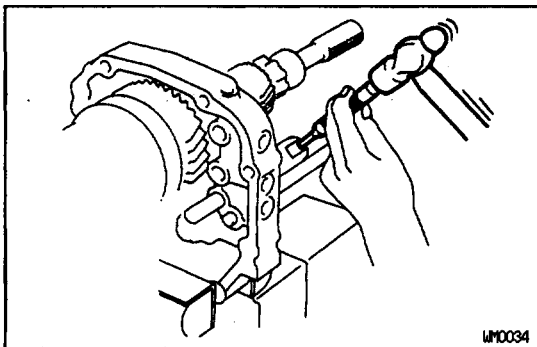
(h) Remove the No.2 shift fork and shaft.



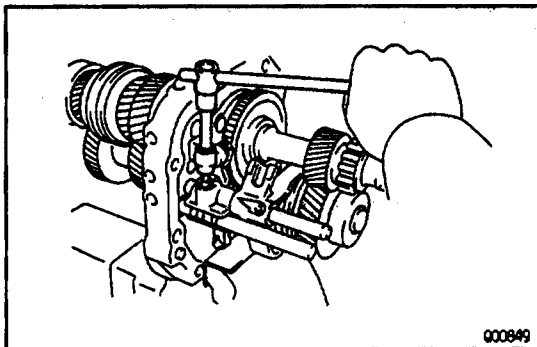
- (i) Using a magnetic finger, remove the No.3 interlock pin.



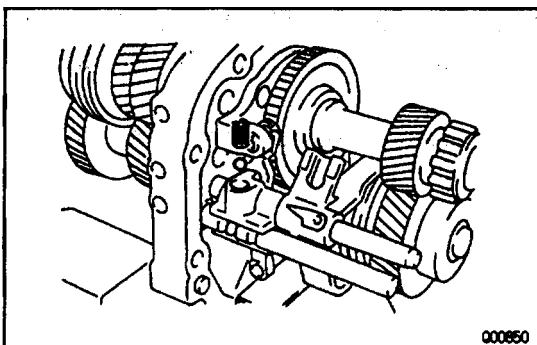
- (j) Using 2 screwdrivers and a hammer, tap out the snap ring from the No.3 shift fork shaft.



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

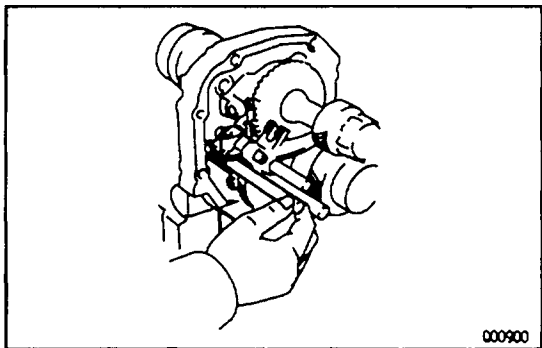


- (l) Using a hexagon wrench, remove the plug.

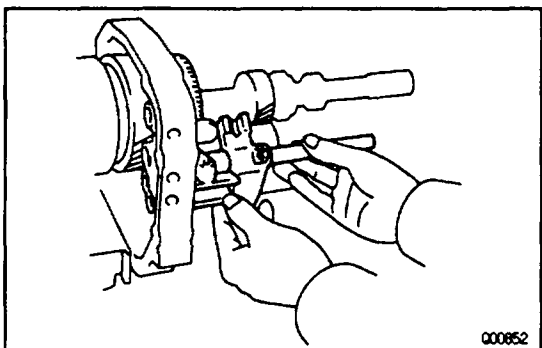


- (m) Using a magnetic finger, remove the spring and ball.

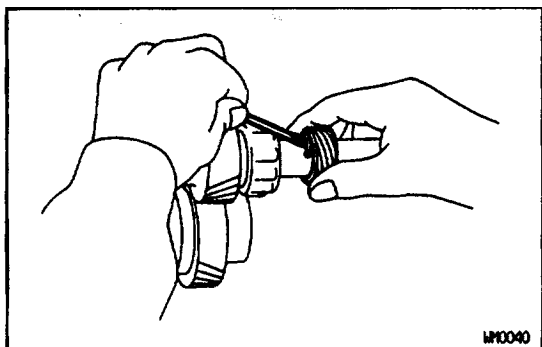




- (n) Pull out the No.4 shift fork shaft.
- (o) Remove the interlock pin.



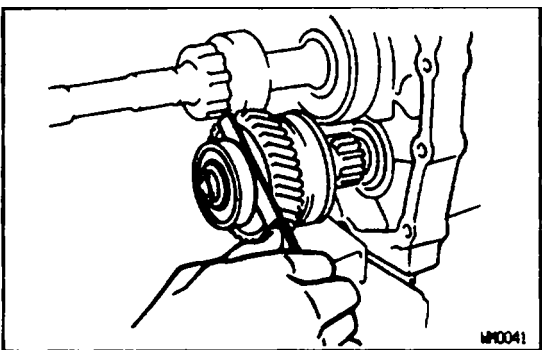
- (p) Remove the No.3 shift fork, fork shaft and reverse shift arm with the pin.



## 12. 2WD:

### REMOVE SPEEDOMETER DRIVE GEAR

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



## 13. INSPECT COUNTER 5TH GEAR THRUST CLEARANCE

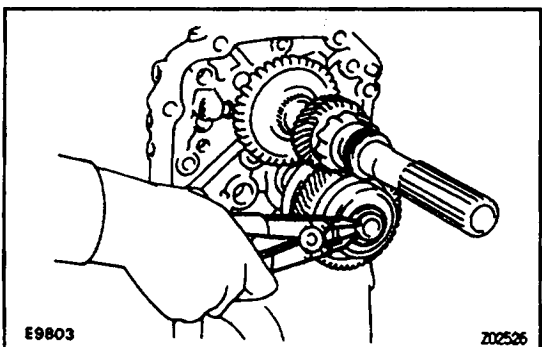
Using a feeler gauge, measure the counter 5th gear thrust clearance.

**Standard clearance:**

0.10–0.41 mm (0.0039–0.0161 in.)

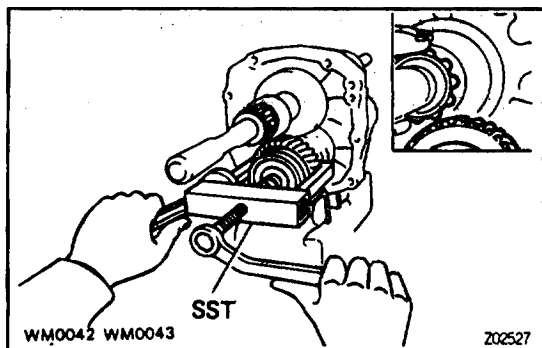
**Maximum clearance:**

0.46 mm (0.0181 in.)

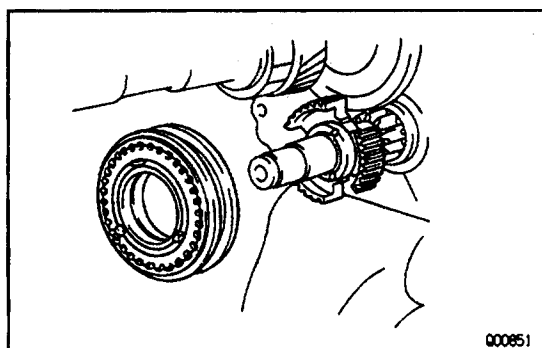


## 14. REMOVE COUNTER REAR BEARING, SPACER, COUNTER 5TH GEAR AND NEEDLE ROLLER BEARING

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

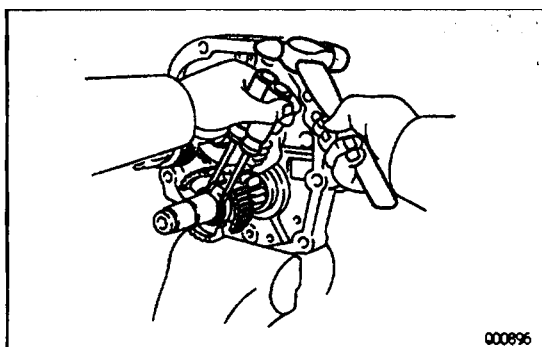


- (b) Using SST, remove the rear bearing, spacer, 5th gear and bearing.  
SST 09213-36020  
**NOTICE: Be careful not to catch the output shaft rear bearing roller on the counter 5th gear.**
- (c) Remove the spacer.

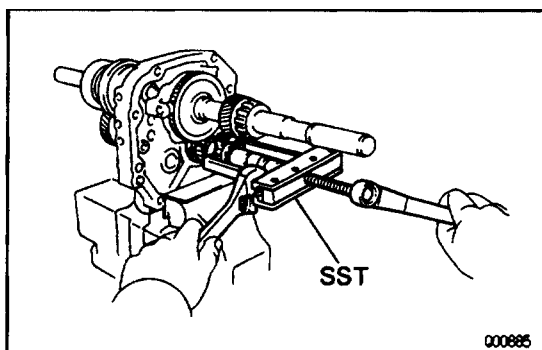


#### 15. REMOVE SYNCHRONIZER RING ASSEMBLY WITH NO.3 HUB SLEEVE AND NO.3 CLUTCH HUB

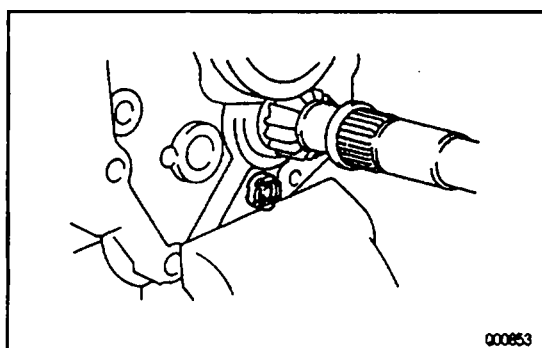
- (a) Remove the synchronizer ring assembly with the No.3 hub sleeve from the No.3 clutch hub.



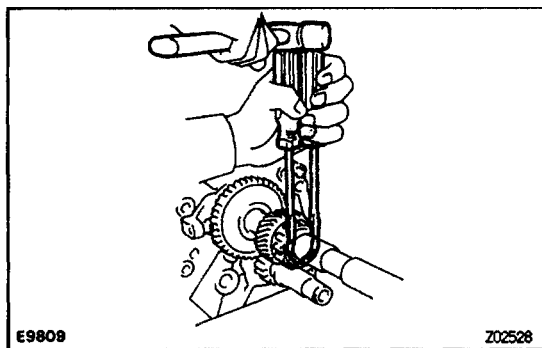
- (b) Remove the spacer.
- (c) Using 2 screwdrivers and a hammer, tap out the snap ring.



- (d) Using SST, remove the No.3 clutch hub.  
SST 09213-36020

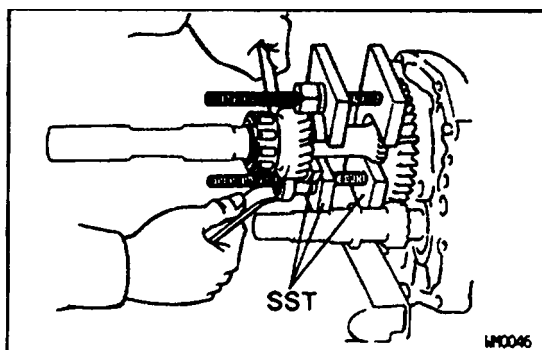


#### 16. REMOVE REAR MAGNET

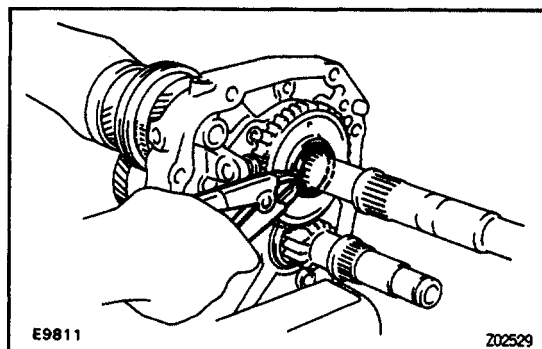


## 17. REMOVE OUTPUT SHAFT REAR BEARING AND 5TH GEAR

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

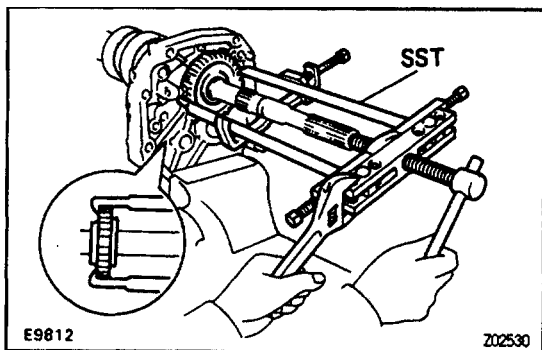


- (b) Using SST, remove the rear bearing and 5th gear.  
SST 09312-20011 (09313-00030, 09313-00040, 09313-00050)

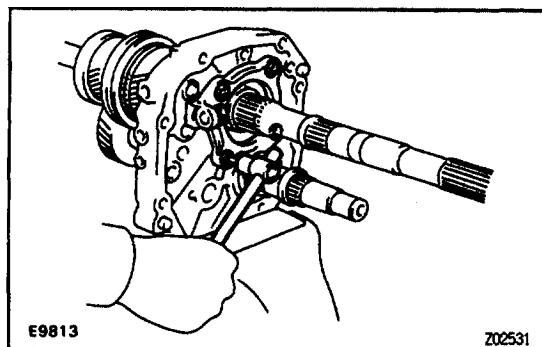


## 18. REMOVE REVERSE GEAR

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

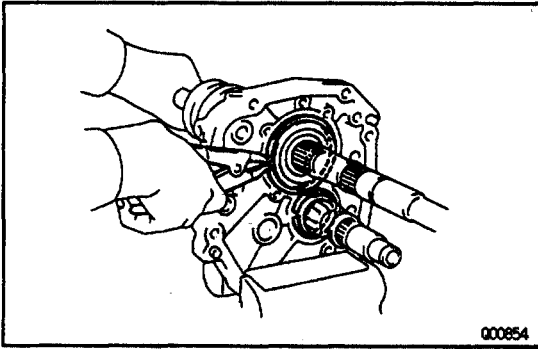


- (b) Using SST, remove the reverse gear.  
SST 09950-20017

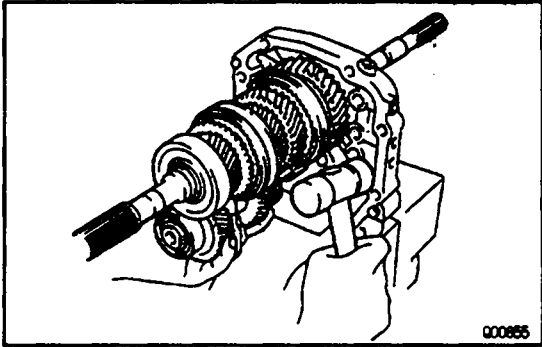


## 19. REMOVE REAR BEARING RETAINER

- (a) Using a torx socket wrench, unscrew the 4 torx screws and remove the retainer.  
(Torx wrench T40 09042-00020)



- (b) Using a snap ring expander, remove the 2 snap rings.



**20. REMOVE OUTPUT SHAFT AND COUNTER GEAR 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.