

## DISASSEMBLY

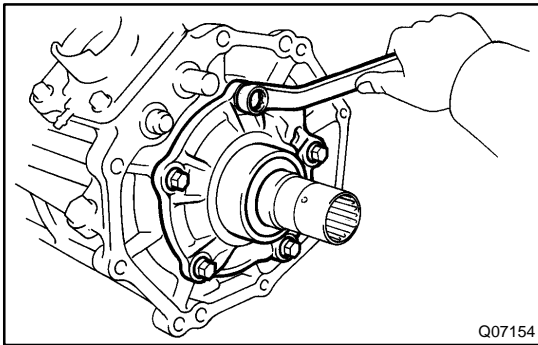
### 1. REMOVE VEHICLE SPEED SENSOR ASSEMBLY

- Remove the bolt and vehicle speed sensor assembly.
- Using a small screwdriver, remove the clip and vehicle speed sensor driven gear.
- Using a small screwdriver, remove the O-ring.

HINT:

Tap the small screwdriver tip before use.

### 2. REMOVE L4 POSITION SWITCH, NEUTRAL POSITION SWITCH AND STRAIGHT SCREW PLUG WITH 3 GASKETS



### 3. REMOVE FRONT BEARING RETAINER

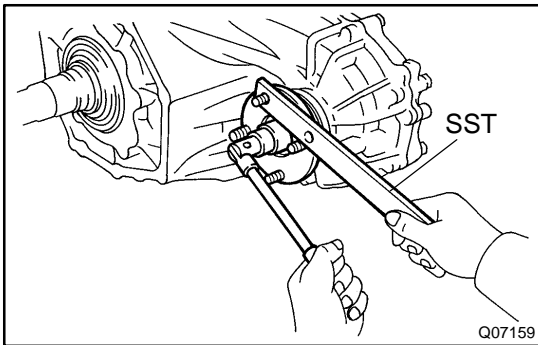
Remove the 5 bolts and front bearing retainer.

HINT:

If necessary, tap the front bearing retainer with a plastic hammer to remove it.

### 4. REMOVE CONTROL SHIFT LEVER RETAINER

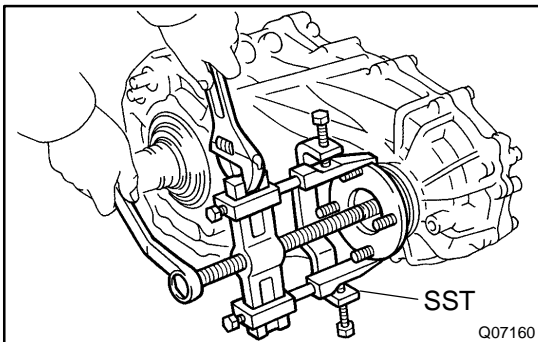
Remove the 4 bolts, control shift lever retainer and oil deflector.



### 5. REMOVE FRONT COMPANION FLANGE

- Using a chisel and hammer, loosen the staked part of the front companion flange lock nut.
- Using SST to hold the front companion flange, remove the front companion flange lock nut.

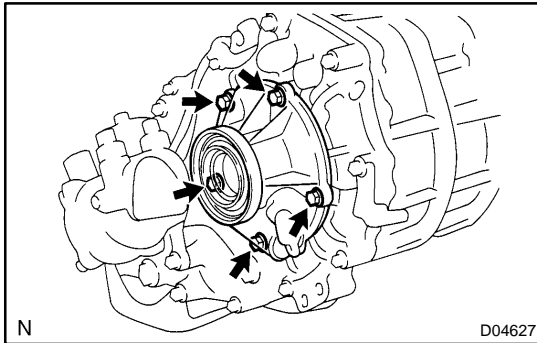
SST 09330-00021



- Using SST, remove the front companion flange.  
SST 09950-40011 (09951-04020, 09952-04010, 09953-04030, 09954-04010, 09955-04051, 09957-04010, 09958-04011)

### 6. REMOVE REAR COMPANION FLANGE

Remove the rear companion flange in the same way as the front companion flange.

**7. REMOVE EXTENSION HOUSING**

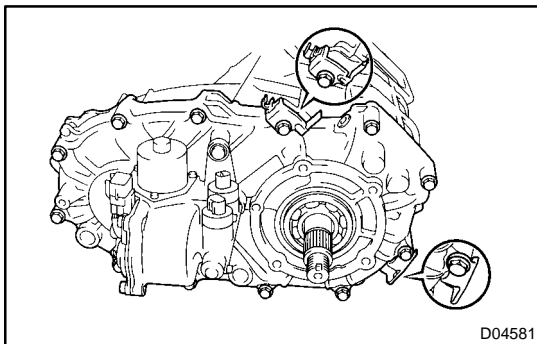
Remove the 5 bolts and extension housing.

HINT:

If necessary, tap the extension housing with a plastic hammer to remove it.

**8. REMOVE VEHICLE SPEED SENSOR DRIVE GEAR AND OUTPUT SHAFT WASHER**

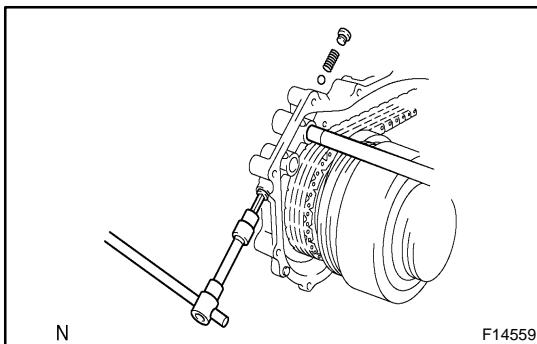
- (a) Remove the vehicle speed sensor drive gear and 2 output shaft washers.
- (b) Using a magnetic finger, remove the ball from the rear output shaft.

**9. REMOVE REAR CASE**

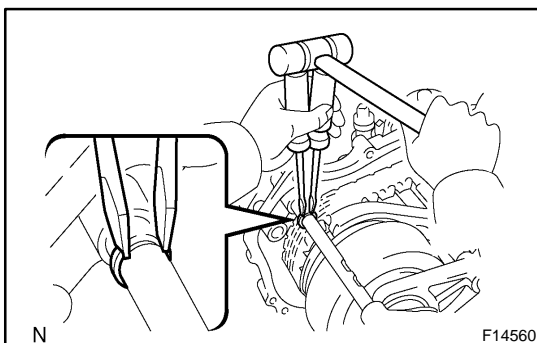
Remove the 12 bolts, 2 clamps and rear case.

HINT:

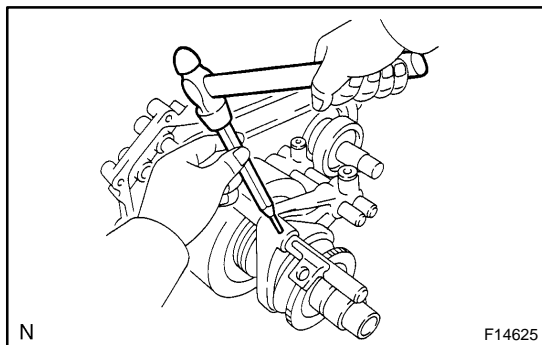
If necessary, tap the rear case with a plastic hammer to remove it.

**10. REMOVE STRAIGHT SCREW PLUG, SPRING AND BALL**

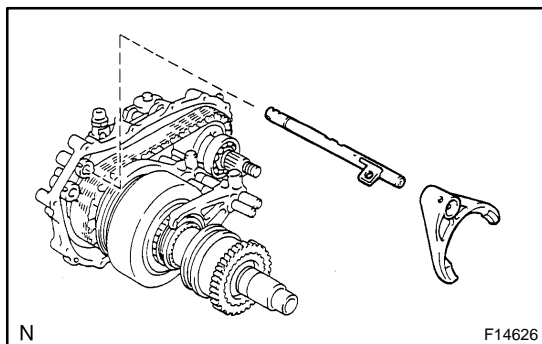
- (a) Using a hexagon wrench, remove the 2 straight screw plugs.
- (b) Using a magnetic finger, remove the spring and ball.

**11. REMOVE NO. 2 GEAR SHIFT FORK AND HIGH AND LOW SHIFT FORK SHAFT**

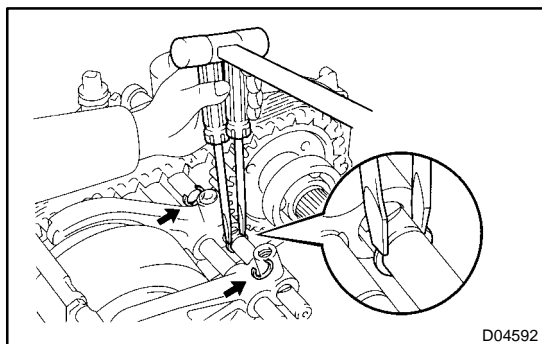
- (a) Using 2 screwdrivers and a hammer, tap out the snap ring.



- (b) Using a pin punch and hammer, tap out the slotted spring pin from the No. 2 gear shift fork.

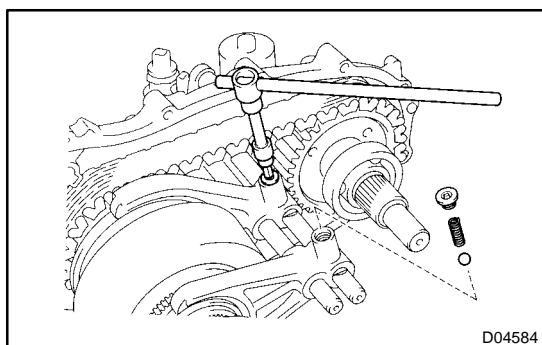


- (c) Remove the No. 2 gear shift fork and high and low shift fork shaft.

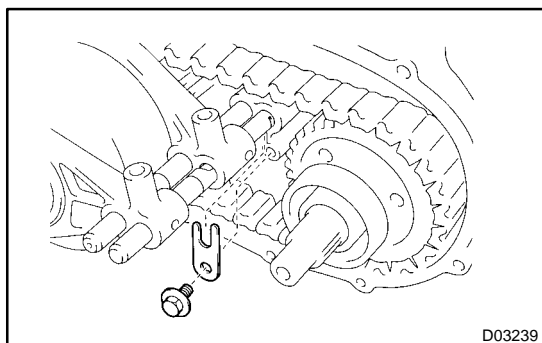


## 12. REMOVE GEAR SHIFT FORK SHAFT

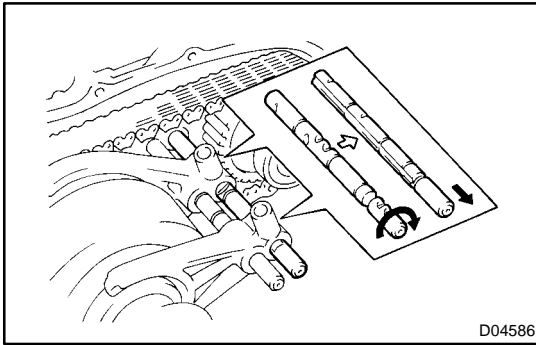
- (a) Using 2 screwdrivers and a hammer, remove the 3 snap rings from the gear shift fork shaft.



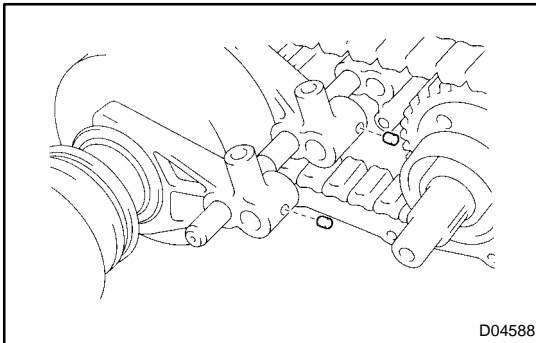
- (b) Using a hexagon wrench, remove the 2 straight screw plugs, springs and balls from the No. 1 gear shift fork and center diff. lock fork.



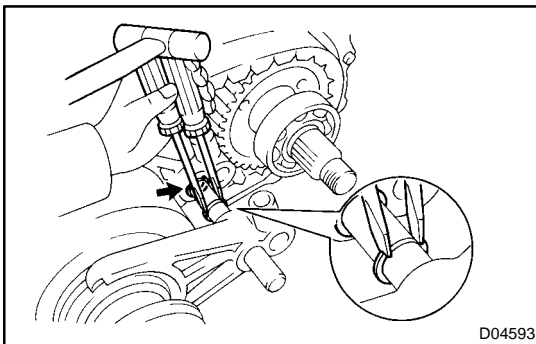
- (c) Remove the bolt and shift shaft stopper.



- (d) Rotate the slit portion of the gear shift fork shaft to the No. 2 shift interlock pin and remove it.

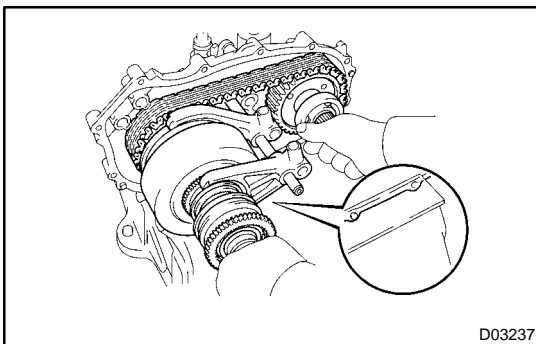


- (e) Using a magnetic finger, remove the 2 No. 2 shift interlock pins from the No. 1 gear shift fork and center diff. lock fork.

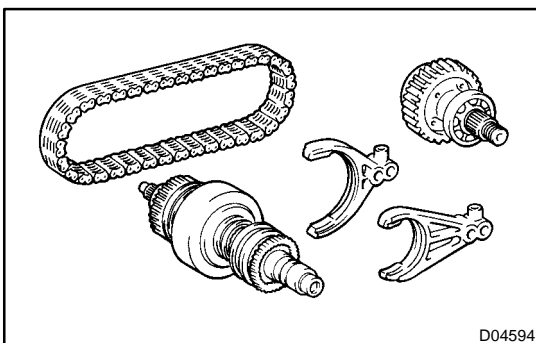


**13. REMOVE REAR OUTPUT SHAFT ASSEMBLY, NO. 1 GEAR SHIFT FORK, CENTER DIFF. LOCK FORK, DRIVEN SPROCKET ASSEMBLY AND FRONT DRIVE CHAIN**

- (a) Using 2 screwdrivers and a hammer, tap out the 2 snap rings from the gear shift fork shaft of the actuator assembly.  
(b) Using a snap ring expander, remove the output shaft snap ring.



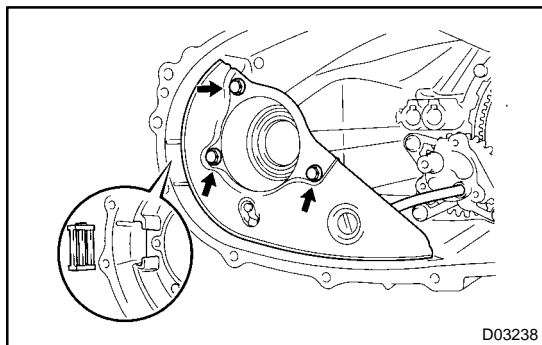
- (c) Mount the rear case in a vise, as shown.  
(d) Using a plastic hammer, carefully tap the rear case, and remove the rear output shaft assembly together with No. 1 gear shift fork, center diff. lock fork, driven sprocket assembly and front drive chain.



- (e) Remove the front driven chain, driven sprocket assembly, center diff. lock fork and No. 1 gear shift fork from the rear output shaft assembly.

**14. REMOVE ACTUATOR ASSEMBLY**

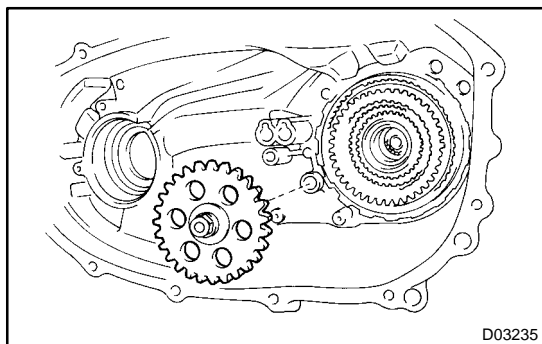
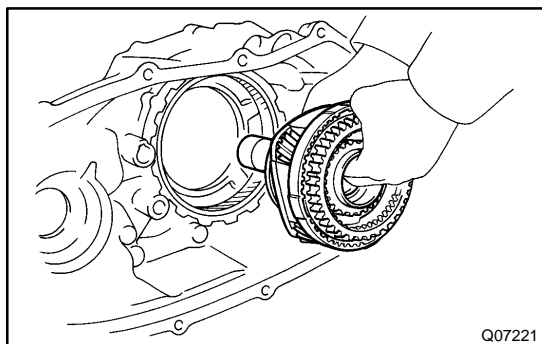
- (a) Remove the 3 bolts and actuator assembly.  
(b) Remove the O-ring, No. 1 and No. 2 4WD position switches with the 2 gaskets from the actuator assembly.

**15. REMOVE OIL SEPARATOR AND MAGNET**

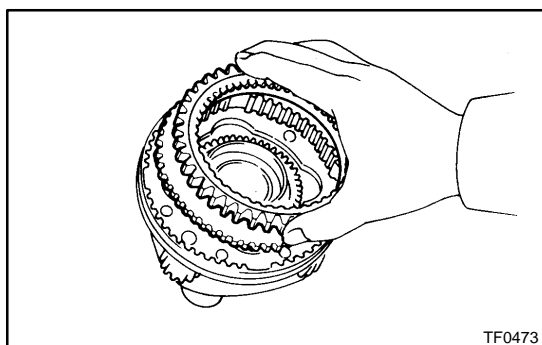
- (a) Remove the 3 bolts and oil separator.
- (b) Remove the magnet from the front case.

**16. REMOVE OIL PUMP BODY ASSEMBLY**

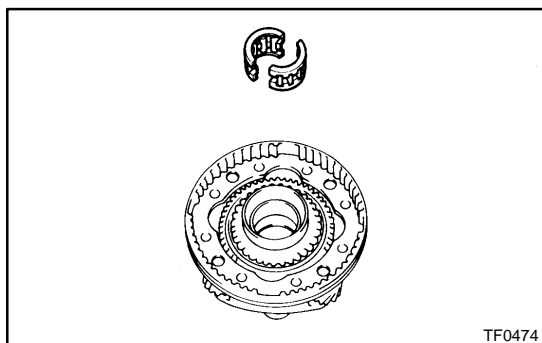
Remove the 3 bolts and oil pump body assembly.

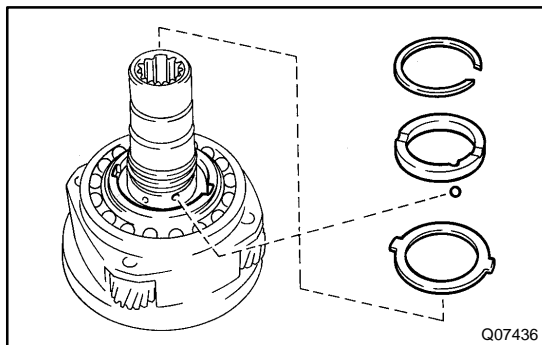
**17. REMOVE OIL PUMP GEAR FROM FRONT CASE****18. REMOVE LOW PLANETARY GEAR ASSEMBLY WITH INPUT SHAFT ASSEMBLY**

- (a) Using a snap ring expander, remove the low planetary gear bearing snap ring.
- (b) Pull out the planetary gear assembly with the input shaft assembly.

**19. REMOVE LOW PLANETARY GEAR SPLINE PIECE**

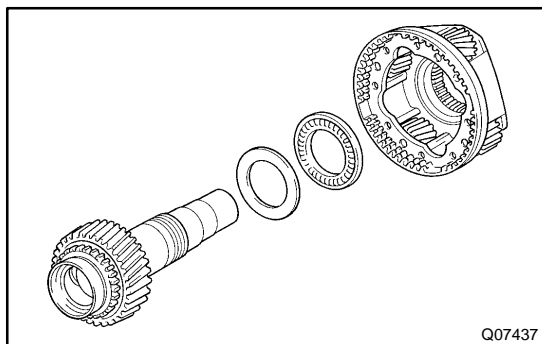
- (a) Using a screwdriver, remove the low planetary gear snap ring.
- (b) Remove the low planetary gear spline piece.

**20. REMOVE OUTPUT SHAFT NEEDLE ROLLER BEARING FROM INPUT SHAFT**

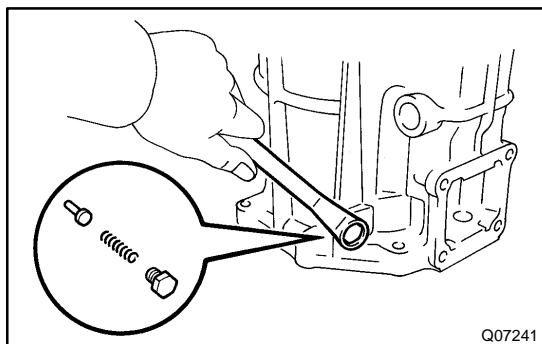


**21. REMOVE INPUT GEAR STOPPER, LOW PLANETARY CARRIER THRUST WASHER AND INPUT GEAR STOPPER BALL**

- (a) Using a snap ring expander, remove the input gear stopper snap ring.
- (b) Remove the input gear stopper, low planetary carrier thrust washer and input gear stopper ball.

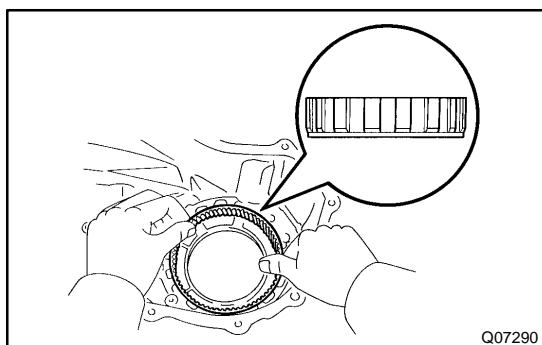


**22. REMOVE INPUT SHAFT ASSEMBLY, LOW PLANETARY GEAR BEARING AND NO. 2 THRUST BEARING RACE**

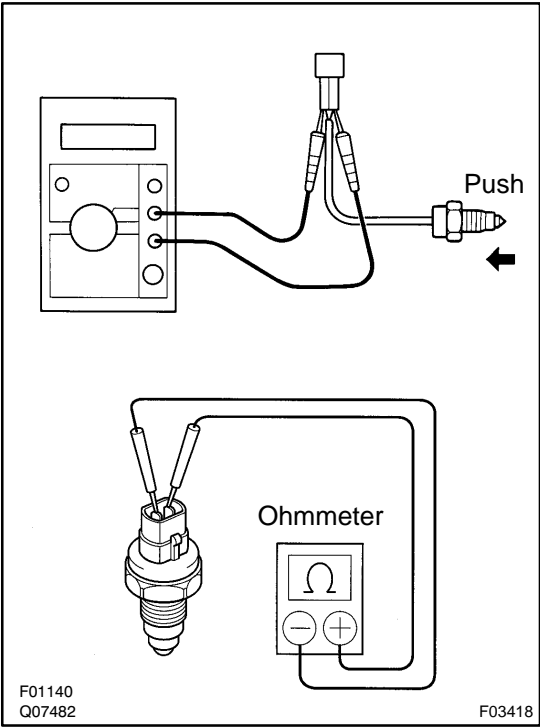


**23. REMOVE LOW PLANETARY RING GEAR**

- (a) Using a screwdriver, remove the low planetary ring gear hole snap ring.
- (b) Remove the head screw plug, spring and pin.



- (c) Remove the low planetary ring gear.



**24. INSPECT SWITCH**

Check that there is continuity between terminals, as shown.

Switch position	Specified condition
Push	Continuity
Free	No continuity

If operation is not as specified, replace the switch.