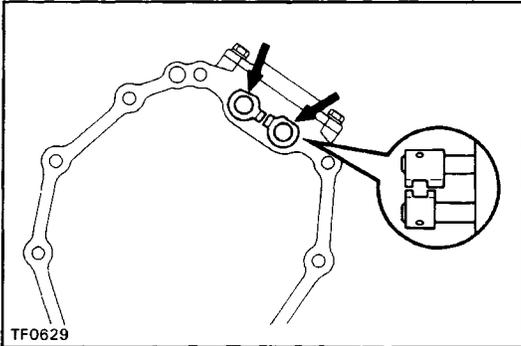


DISASSEMBLY OF TRANSFER

(See pages [TF-32](#) and [33](#))

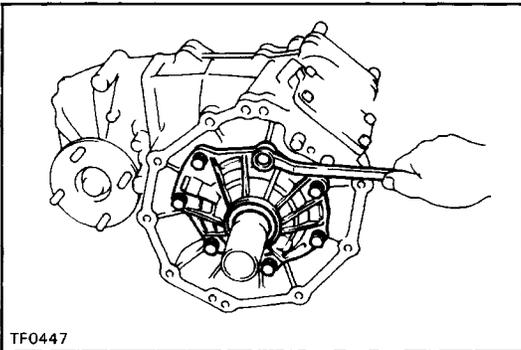
1. REMOVE SPEEDOMETER DRIVEN GEAR
2. REMOVE TRANSFER INDICATOR SWITCH
3. (22R-E/A340F)
REMOVE TRANSFER L4 POSITION SWITCH



4. (22R-E/G58, A340F)

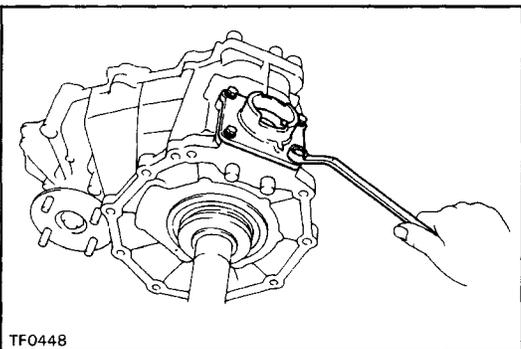
REMOVE SHIFT GEAR HEAD NO. 1 AND NO.2

- (a) Using a pin punch and hammer, drive out the two slotted spring pins.
- (b) Remove two shift gear heads.



5. REMOVE FRONT RETAINER

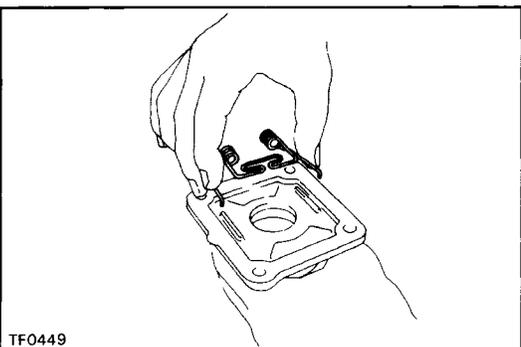
Remove the seven bolts and the front retainer.



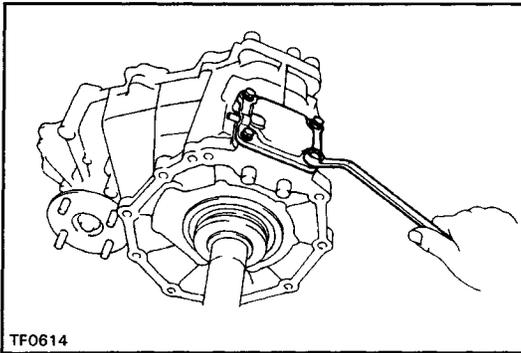
- 6.-1 (3VZ-E/R150F)

REMOVE CONTROL RETAINER

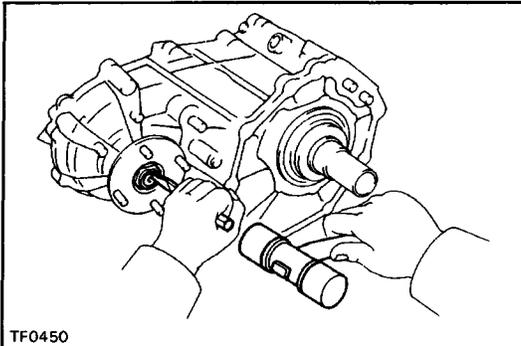
- (a) Remove the four bolts and the control retainer.



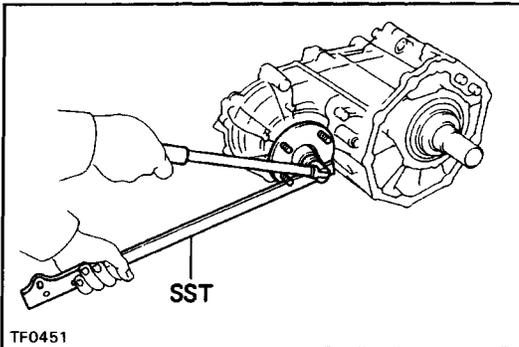
- (b) Remove the select return spring from the retainer.

**6.-2 (22R-E/G58, A340F)****REMOVE UPPER COVER AND OIL DEFLECTOR**

Remove the four bolts and the upper cover and oil deflector.

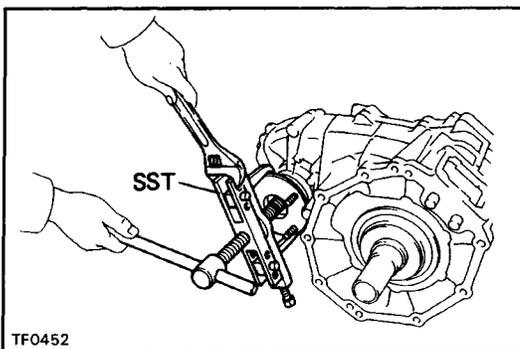
**7. REMOVE FRONT COMPANION FLANGE**

(a) Using a hammer and chisel, loosen the staked part of the nut.



(b) Using SST to hold the flange, remove the companion flange lock nut.

SST 09330-00021 –

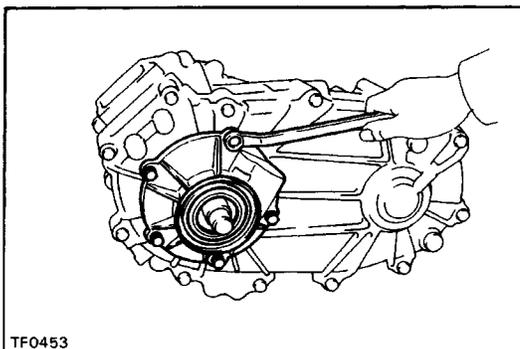


(c) Using SST, remove the companion flange.

SST 09950-20017

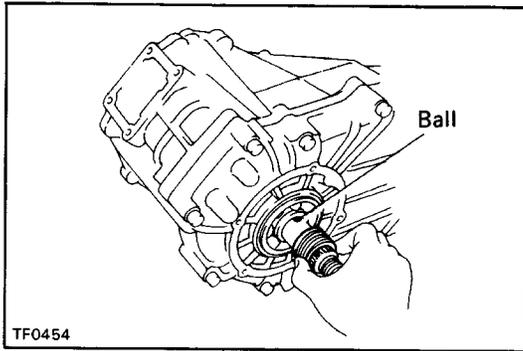
8. REMOVE REAR COMPANION FLANGE

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

**9. REMOVE EXTENSION HOUSING**

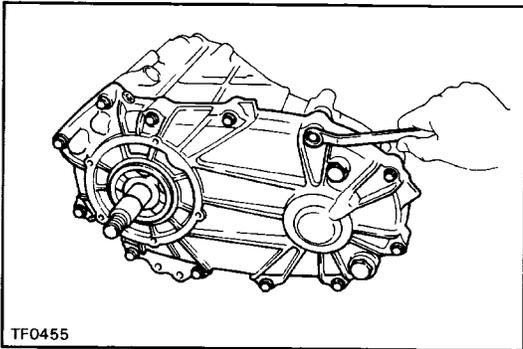
(a) Remove the five bolts.

(b) Using a plastic hammer, tap the extension housing and remove it.



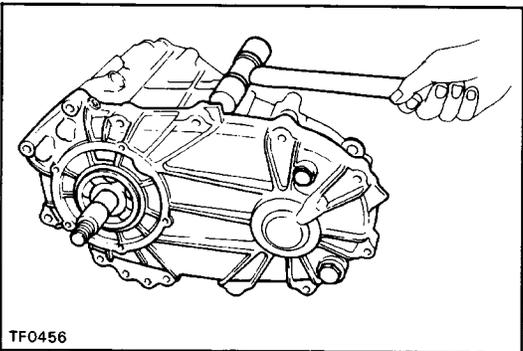
10. REMOVE SPEEDOMETER DRIVE GEAR

- (a) Remove the speedometer drive gear.
- (b) Using a magnetic finger, remove the ball from the rear output shaft.

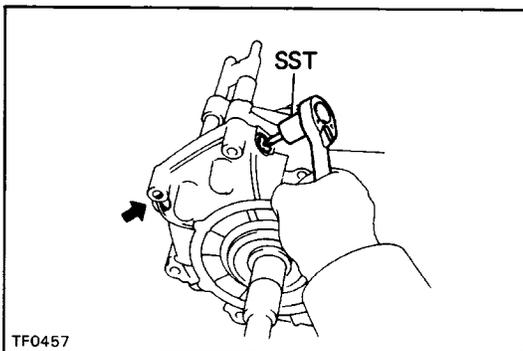


11. SEPARATE FRONT CASE AND REAR CASE

- (a) Remove the twelve bolts.

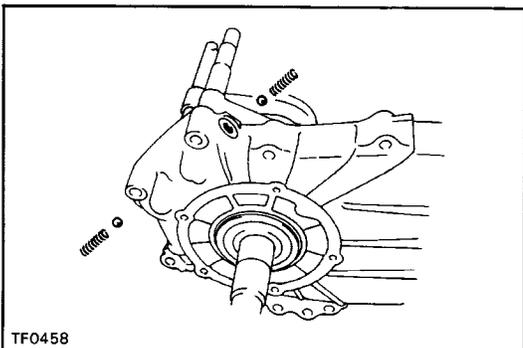


- (b) Using a plastic hammer, tap the rear case and separate the front case and rear case.



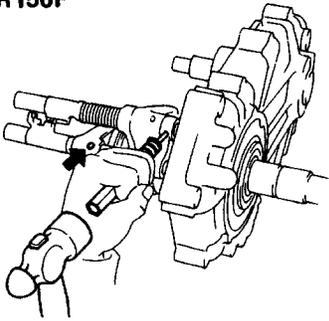
12. REMOVE STRAIGHT SCREW PLUGS, SPRINGS AND LOCKING BALLS

- (a) Using SST, remove the two screws.
SST 09313-30021



- (b) Using a magnetic finger, remove the spring and ball from the both holes.

3VZ-E/R150F



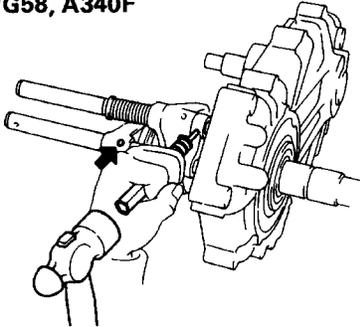
TF0459

13. REMOVE FRONT DRIVE FORK SHAFT, FORK AND SPRING

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

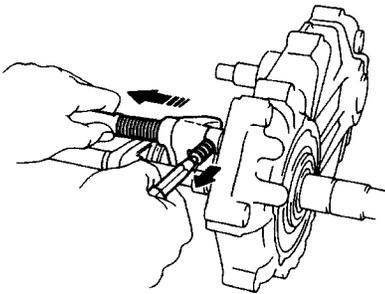
HINT: When the pin is removed from the front drive fork shaft, the shaft will spring loose if the pin punch is removed, so keep the pin punch inserted in the shaft hole.

22R-E/G58, A340F



TF0619

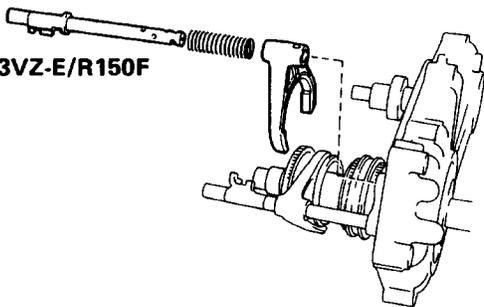
(b) Hold the front drive fork shaft in place by hand, when removing the pin punch.



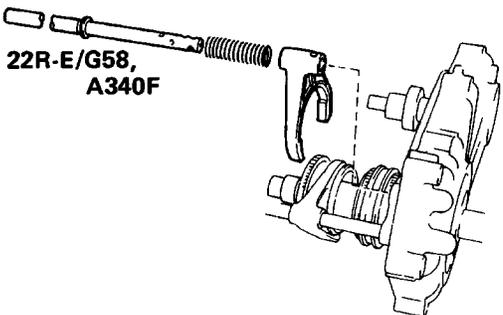
TF0460

(c) Remove the front drive fork shaft, spring and fork.

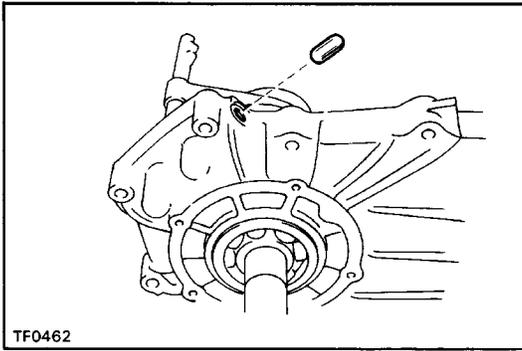
3VZ-E/R150F



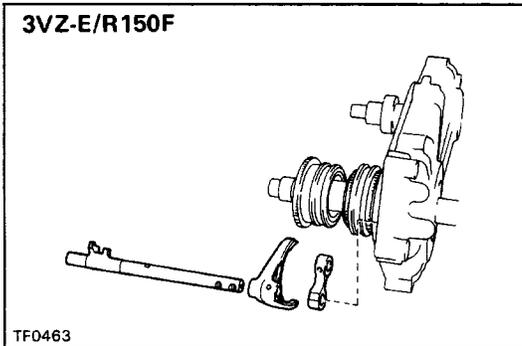
TF0461

22R-E/G58,
A340F

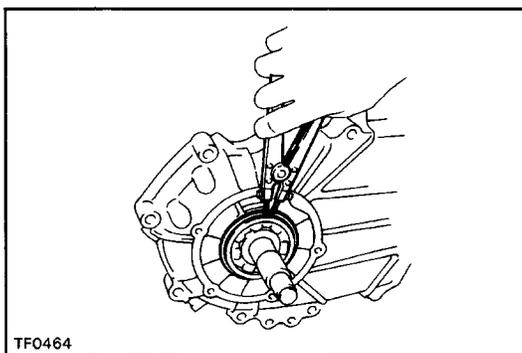
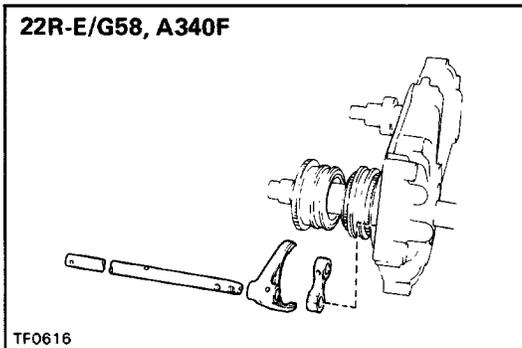
TF0623



(d) Using a magnetic finger, remove the straight pin.

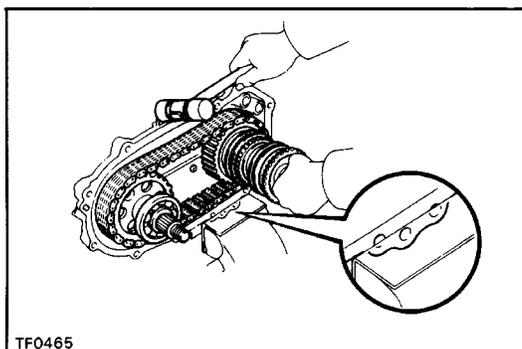


14. REMOVE HIGH AND LOW FORK SHAFT, FORK AND STOPPER



15. REMOVE REAR OUTPUT SHAFT, DRIVEN SPROCKET AND CHAIN

(a) Using snap ring pliers, remove the snap ring.

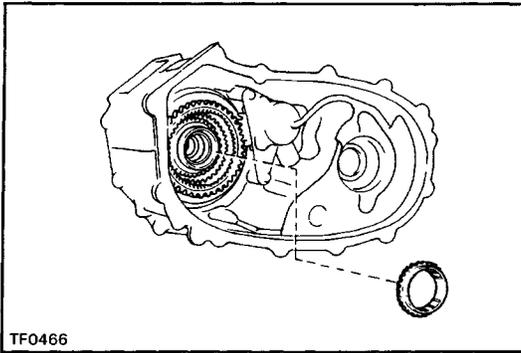


(b) Mount the rear case in the vise.

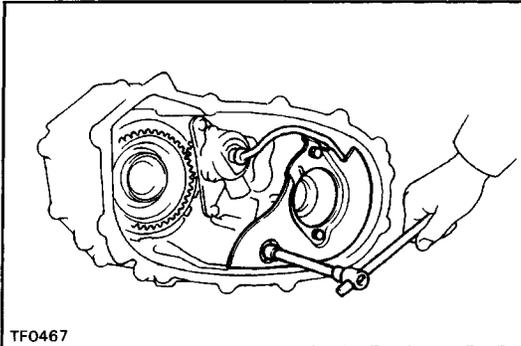
NOTICE: Be careful not to damage the sealing surface.

(c) Using a plastic hammer, tap the rear case with pulling the rear output shaft and driven sprocket.

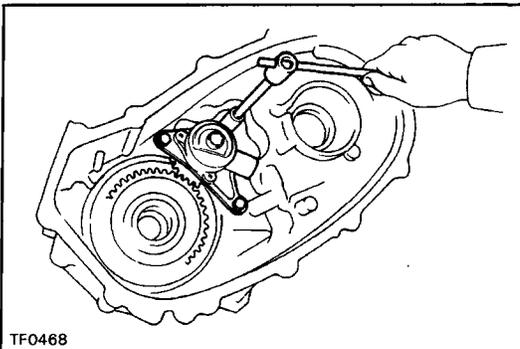
(d) Remove the chain.



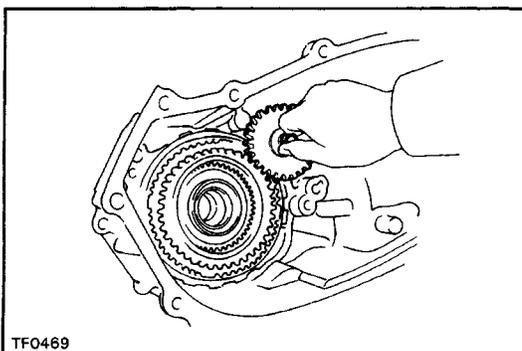
**16. (13150F, G58)
REMOVE SYNCHRONIZER RING FROM INPUT SHAFT**



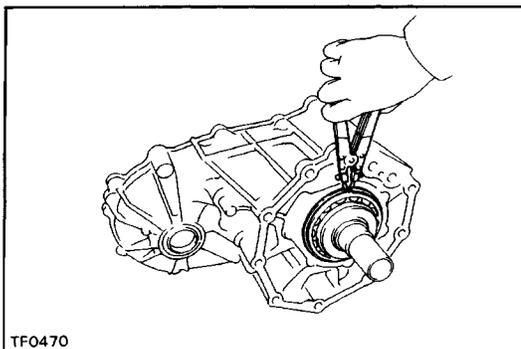
17. REMOVE SEPARATER WITH OIL STRAINER
(a) Remove the three bolts and the separator with the oil strainer.
(b) Remove the O-ring from the oil strainer pipe.



18. REMOVE OIL PUMP BODY ASSEMBLY
Remove the three bolts and the oil pump body assembly.

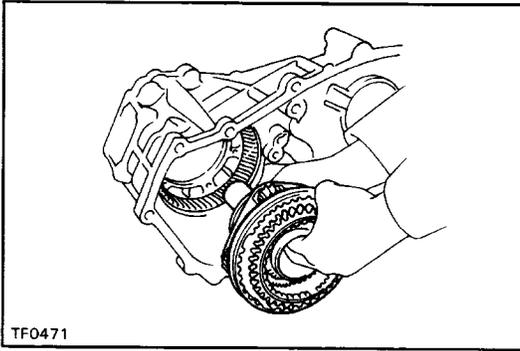


19. REMOVE OIL PUMP DRIVE GEAR

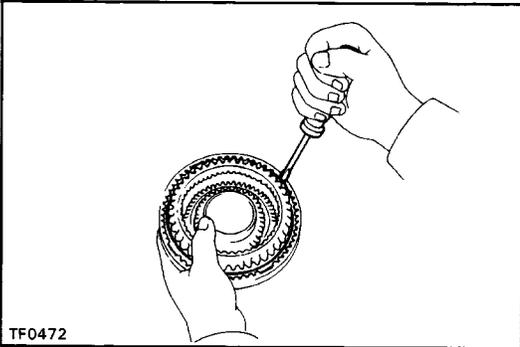


20. REMOVE PLANETARY GEAR ASSEMBLY WITH INPUT SHAFT

(a) Using snap ring pliers, remove the snap ring.

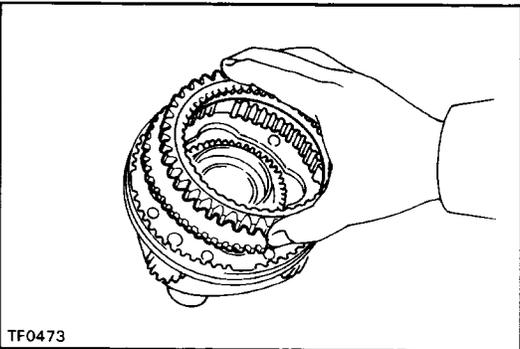


(b) Pull out the planetary gear assembly with the input shaft.

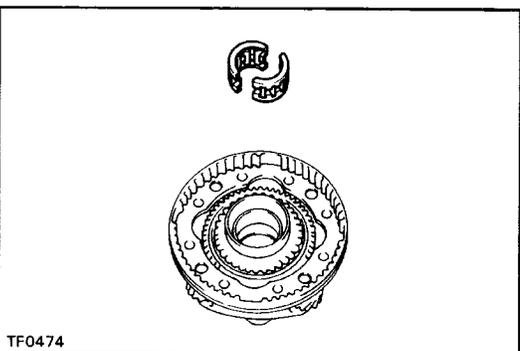


21. REMOVE LOW GEAR SPLINE PIECE

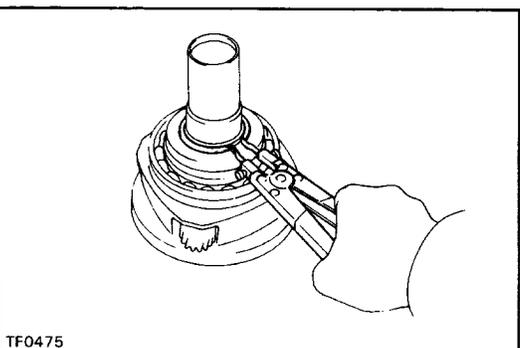
(a) Using a screwdriver, remove the snap ring.



(b) Remove the low gear spline piece.

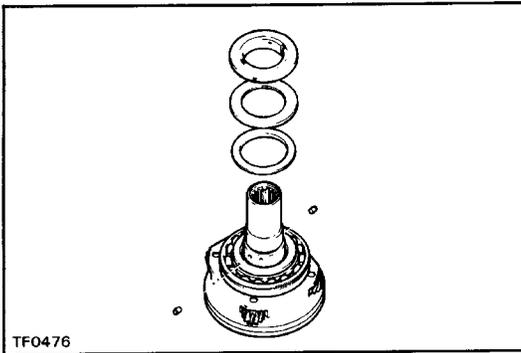


22. REMOVE NEEDLE ROLLER BEARING FROM INPUT SHAFT

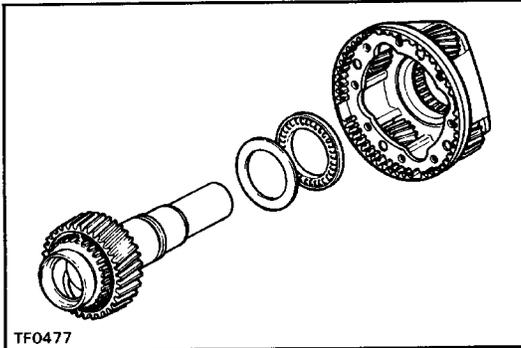


23. REMOVE INPUT SHAFT STOPPER AND THRUST BEARING

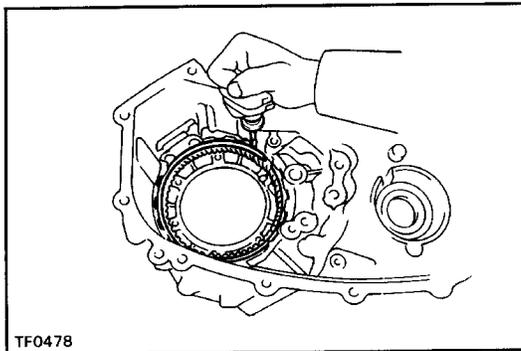
(a) Using snap ring pliers, remove the snap ring.



(b) Remove the input shaft stopper, thrust bearing, race and the two pins.

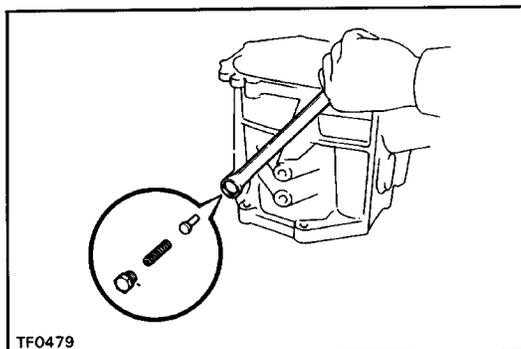


24. REMOVE INPUT SHAFT, THRUST BEARING AND RACE

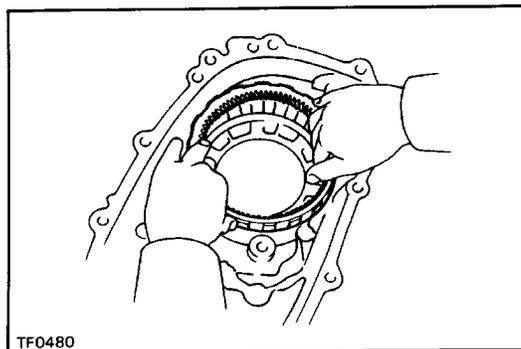


25. REMOVE PLANETARY RING GEAR

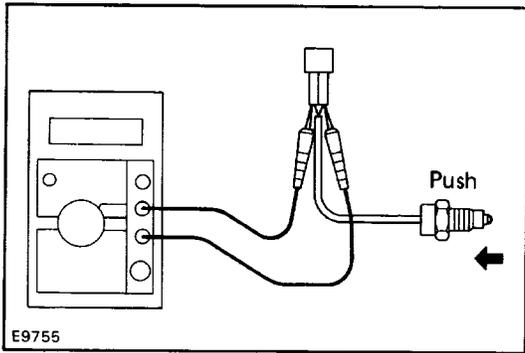
(a) Using a screwdriver, remove the snap ring.



(b) Remove the plug, spring and pin.



(c) Remove the planetary ring gear.

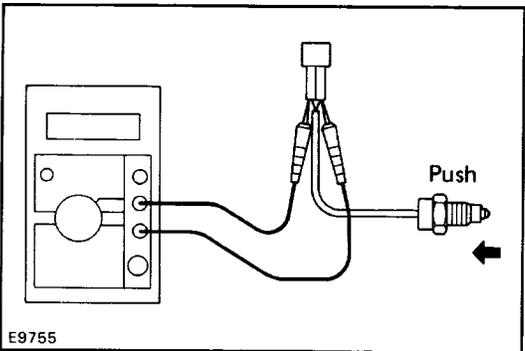


26. INSPECT TRANSFER INDICATOR SWITCH

Check that there is continuity between terminals as shown.

Switch Position	Specified
Push	Continuity
Free	No continuity

If operation is not as specified, replace the switch.



27. (22R-E/A340F)

INSPECT TRANSFER L4 AND NEUTRAL POSITION 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 the switch.