

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. DRAIN TRANSFER OIL

3. REMOVE LOWER TRANSFER CASE PROTECTOR

(a) Remove the 4 bolts and protector.

4. REMOVE AUTOMATIC TRANSMISSION ASSEMBLY (for Automatic Transmission)

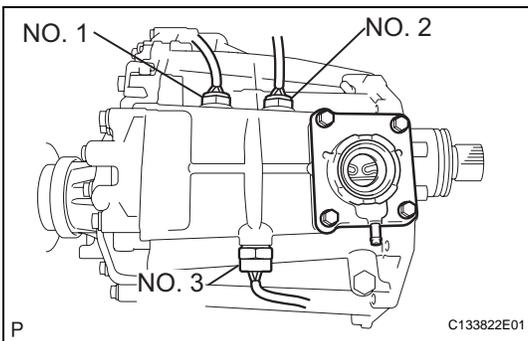
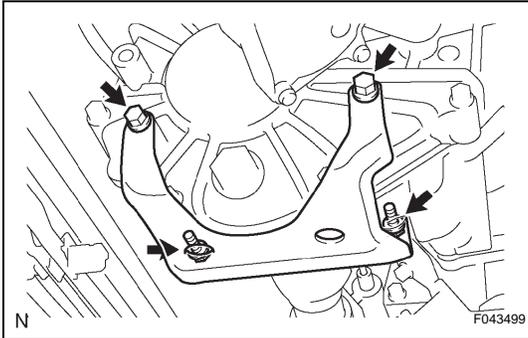
(a) A750F:

Remove the automatic transmission (see page [AT-178](#)).

5. REMOVE TRANSFER ASSEMBLY

(a) Remove the 8 bolts and 2 clamps.

(b) Remove the transfer from the transmission.



DISASSEMBLY

1. REMOVE TRANSFER INDICATOR SWITCH

(a) Remove the switches and gaskets.

HINT:

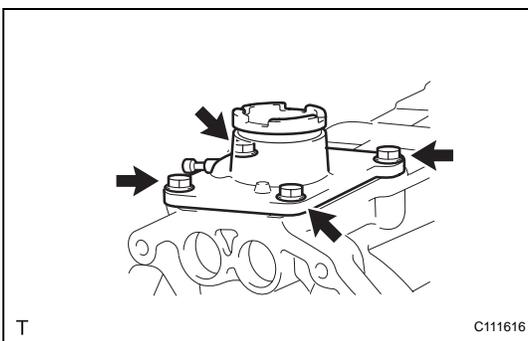
Indicator switch:

No. 1	Indicator switch (neutral position)
No. 2	Indicator switch (L4 position)
No. 3	Indicator switch (4WD position)

2. REMOVE TRANSFER CONTROL SHIFT LEVER RETAINER SUB-ASSEMBLY

(a) Remove the 4 bolts and the retainer.

3. REMOVE BREATHER OIL DEFLECTOR



4. REMOVE TRANSFER BEARING RETAINER SUB-ASSEMBLY

(a) Remove the 5 bolts and the bearing retainer.

HINT:

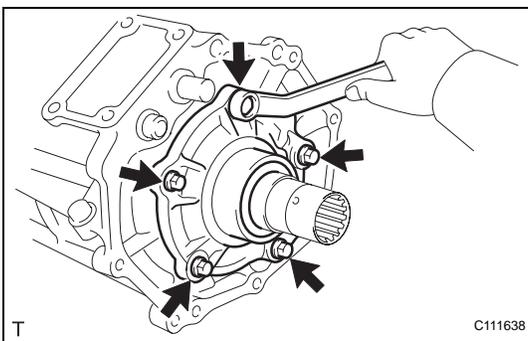
If necessary, tap the bearing retainer with a plastic-faced hammer to remove it.

5. REMOVE TRANSFER COVER OIL SEAL

(a) Using a screwdriver and hammer, tap out the oil seal from the bearing retainer.

NOTICE:

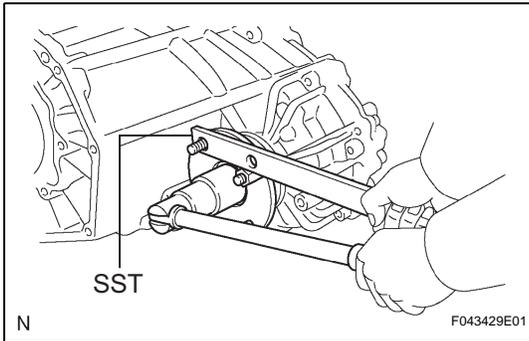
Be careful not to damage the oil seal and bearing retainer contact surfaces.



6. REMOVE OUTPUT SHAFT COMPANION FLANGE SUB-ASSEMBLY (for Front)

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

SST 09330-00021



- (c) Using SST, remove the companion flange.

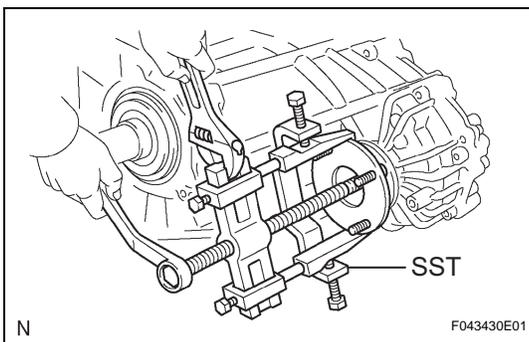
SST 09950-40011 (09951-04020, 09952-04010, 09953-04030, 09954-04010, 09955-04051, 09957-04010, 09958-04011)

7. REMOVE TRANSFER OUTPUT SHAFT COMPANION FLANGE OIL SEAL (for Front)

- (a) Using a screwdriver and hammer, tap out the oil seal from the companion flange.

NOTICE:

Be careful not to damage the oil seal and companion flange contact surfaces.

**8. REMOVE OUTPUT SHAFT COMPANION FLANGE SUB-ASSEMBLY (for Rear)**

- (a) Remove the companion flange (rear) in the same way as the companion flange (front).

SST 09330-00021, 09950-40011 (09951-04020, 09952-04010, 09953-04030, 09954-04010, 09955-04051, 09957-04010, 09958-04011)

9. REMOVE TRANSFER OUTPUT SHAFT COMPANION FLANGE OIL SEAL (for Rear)

- (a) Using a screwdriver and hammer, tap out the oil seal from the companion flange.

NOTICE:

Be careful not to damage the oil seal and companion flange contact surfaces.

10. REMOVE SPEEDOMETER DRIVEN HOLE COVER SUB-ASSEMBLY

- (a) Remove the bolt and speedometer driven hole cover sub-assembly.

11. REMOVE TRANSFER EXTENSION HOUSING SUB-ASSEMBLY

- (a) Remove the 5 bolts and extension housing.

HINT:

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

12. REMOVE TRANSFER COVER TYPE T OIL SEAL

- (a) Using a screwdriver and hammer, tap out the oil seal.

NOTICE:

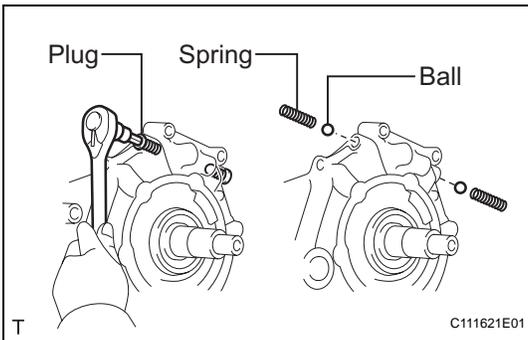
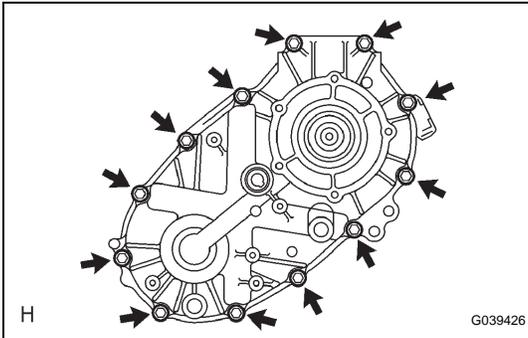
Be careful not to damage the oil seal and extension housing contact surfaces.

13. REMOVE TRANSFER OUTPUT WASHER**14. REMOVE REAR TRANSFER CASE**

- (a) Remove the 12 bolts and clamp.
 (b) Remove the rear case.

HINT:

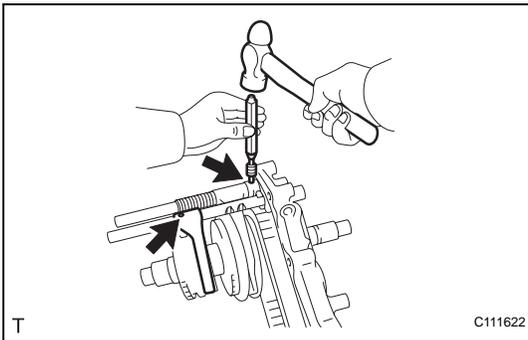
If necessary, tap the rear case with a plastic-faced hammer to remove it.

**15. REMOVE FRONT TRANSFER DRIVE SHIFT FORK SHAFT**

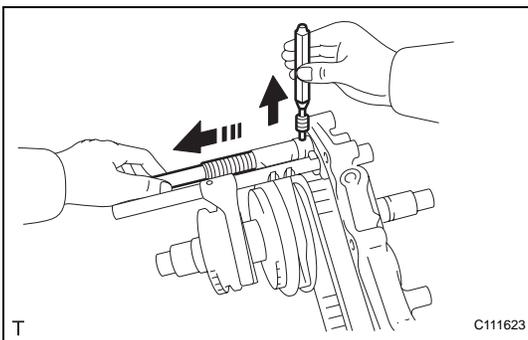
- (a) Using a hexagon wrench, remove the 2 plugs.
 (b) Using a magnetic finger, remove the 2 springs and 2 balls from both holes.
 (c) Mount the case rear in a vise.

NOTICE:

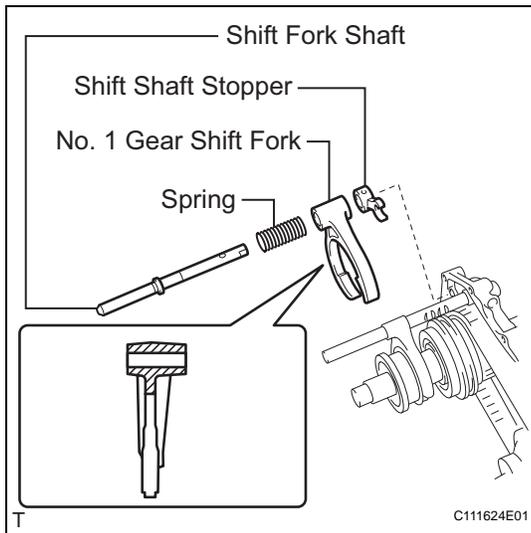
Place aluminum plates on the vise to prevent damage to the case rear.



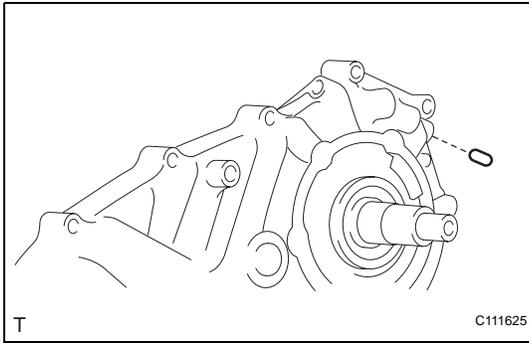
- (d) Using a pin punch and hammer, tap out the 2 slotted pins from the shift shaft stopper and No. 2 gear shift fork.



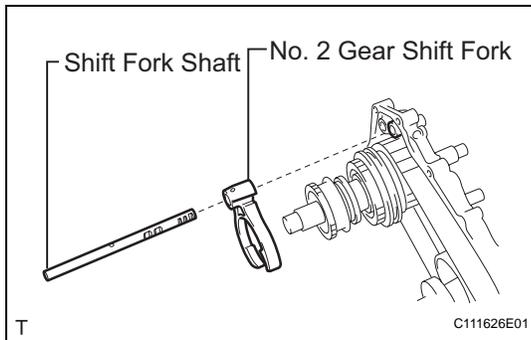
- (e) Hold the shift fork shaft in place by hand when removing the pin punch.



- (f) Remove the shift fork shaft, No. 1 gear shift fork, spring and shift shaft stopper.

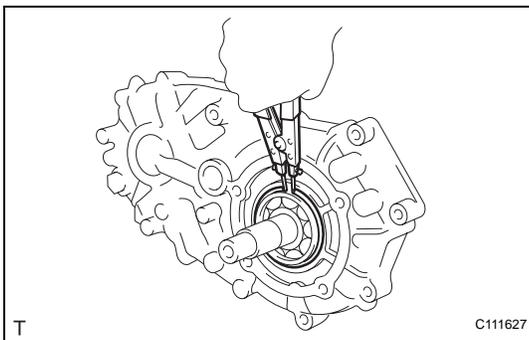


- (g) Using a magnetic finger, remove the straight pin.



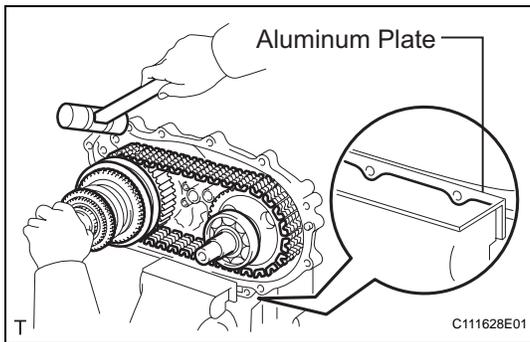
16. REMOVE TRANSFER HIGH AND LOW SHIFT FORK SHAFT

- (a) Remove the shift fork shaft and No. 2 gear shift fork.

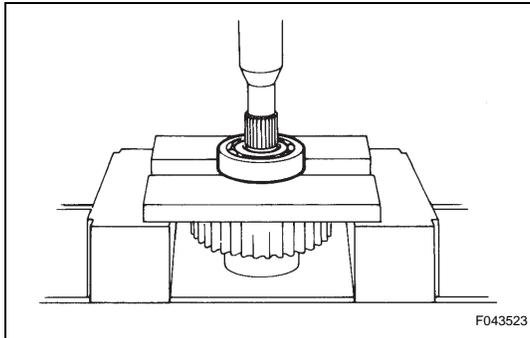


17. REMOVE TRANSFER REAR OUTPUT SHAFT, FRONT TRANSFER DRIVE CHAIN AND TRANSFER DRIVEN SPROCKET

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



- (b) Using a plastic-faced hammer, carefully tap the case rear, and remove the output shaft together with the drive chain and driven sprocket.
- (c) Remove the output shaft and driven sprocket from the drive chain.

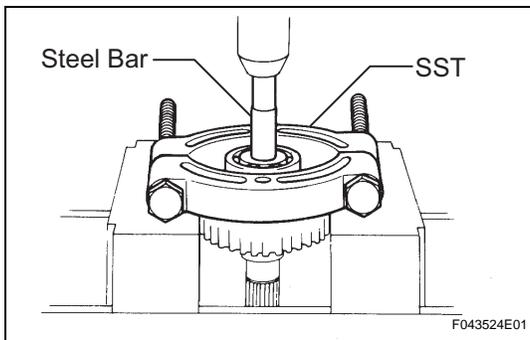


18. REMOVE TRANSFER DRIVEN SPROCKET BEARING

- (a) Using a press, press out the bearing.

NOTICE:

Be careful not to drop or damage the driven sprocket.



19. REMOVE TRANSFER INPUT GEAR RADIAL BALL BEARING

- (a) Using SST, a press and steel bar, press out the bearing.

SST 09555-55010

NOTICE:

Be careful not to damage the driven sprocket.

20. REMOVE NO. 1 TRANSFER CASE PLUG (for Filler)

- (a) Remove the filler plug and gasket.

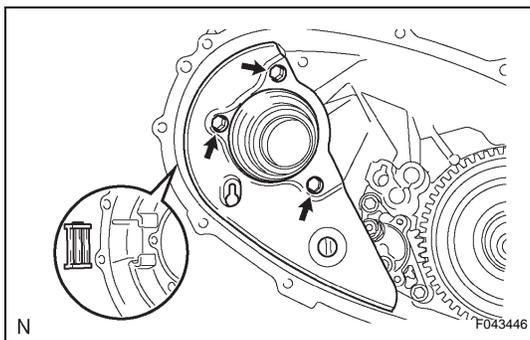
21. REMOVE NO. 1 TRANSFER CASE PLUG (for Drain)

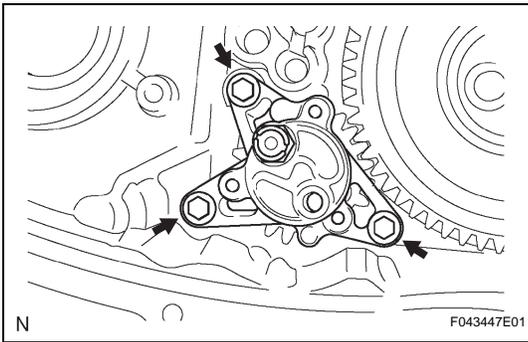
- (a) Remove the drain plug and gasket.

22. REMOVE TRANSFER OIL SEPARATOR SUB-ASSEMBLY

- (a) Remove the 3 bolts and the oil separator.

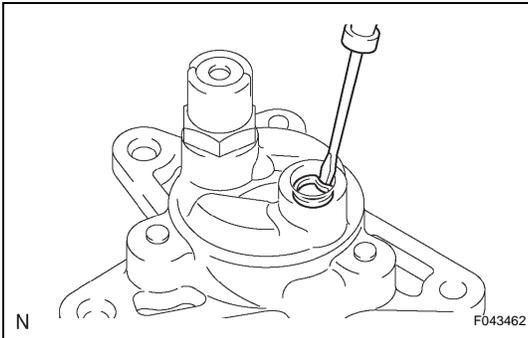
23. REMOVE TRANSFER CASE MAGNET





24. REMOVE TRANSFER OIL PUMP BODY SUB-ASSEMBLY

- (a) Remove the 3 bolts and the oil pump body.

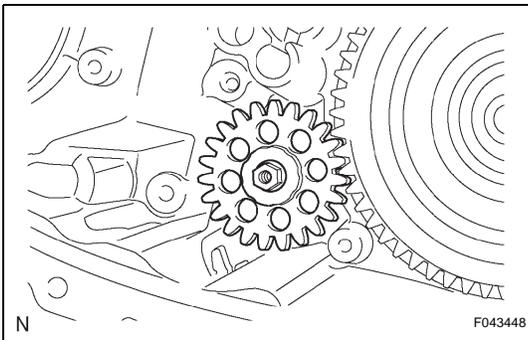


25. REMOVE TRANSFER OIL PUMP BODY O-RING

- (a) Using a screwdriver, remove the O-ring from the oil pump body.

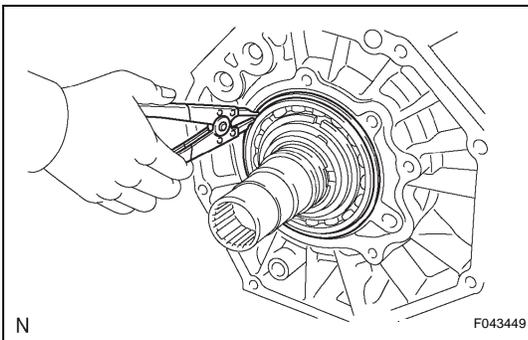
NOTICE:

Be careful not to damage the oil pump body.



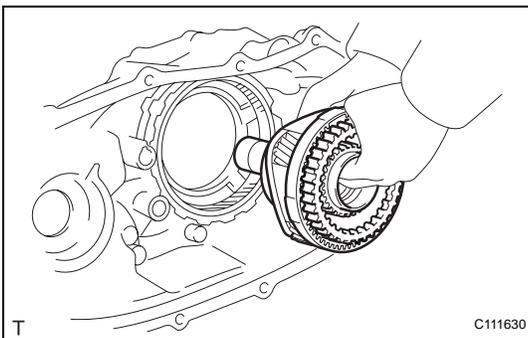
26. REMOVE TRANSFER OIL PUMP GEAR

- (a) Remove the nut and oil pump gear.

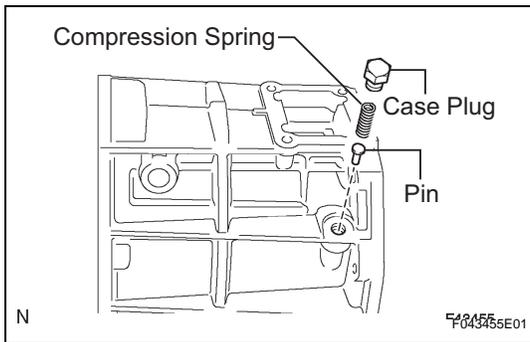
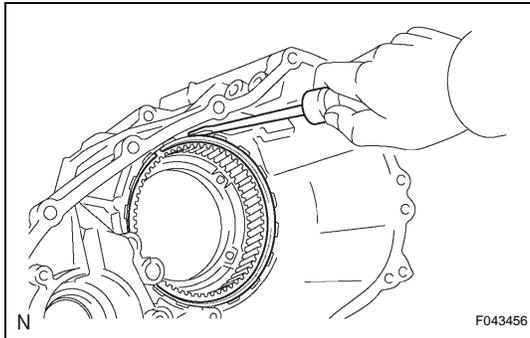


27. REMOVE TRANSFER LOW PLANETARY GEAR ASSEMBLY WITH TRANSFER INPUT SHAFT

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



- (b) Remove the low planetary gear with input shaft.

**28. REMOVE TRANSFER CASE PLUG****29. REMOVE COMPRESSION SPRING****30. REMOVE PIN****31. REMOVE TRANSFER LOW PLANETARY RING GEAR**

- (a) Using a screwdriver, pry out the snap ring.

NOTICE:

Be careful not to damage the case front.

- (b) Remove the ring gear from the case front.

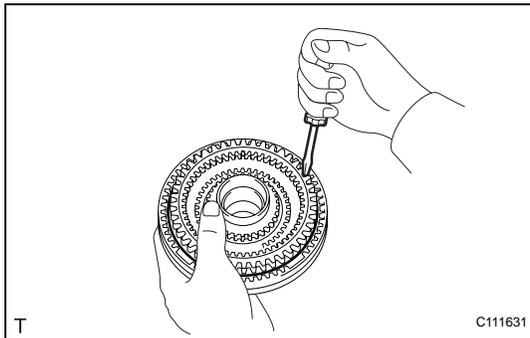
32. REMOVE TRANSFER CASE OIL SEAL

- (a) Using a screwdriver and hammer, tap out oil seal No. 1.

- (b) Using a screwdriver and hammer, tap out oil seal No. 2.

NOTICE:

Be careful not to damage the oil seal and case front contact surfaces.

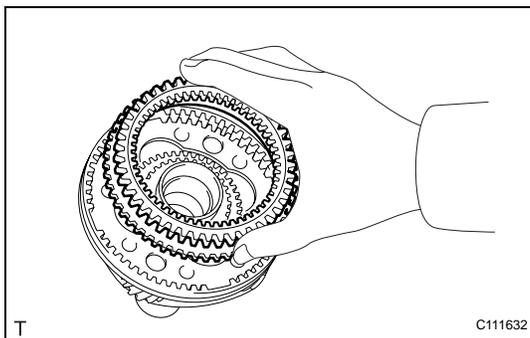
**33. REMOVE TRANSFER LOW PLANETARY GEAR SPLINE PIECE**

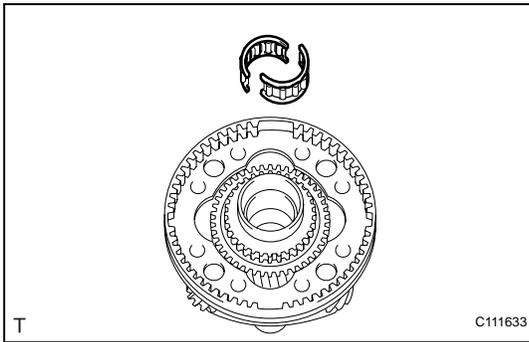
- (a) Using a screwdriver, pry out the snap ring.

NOTICE:

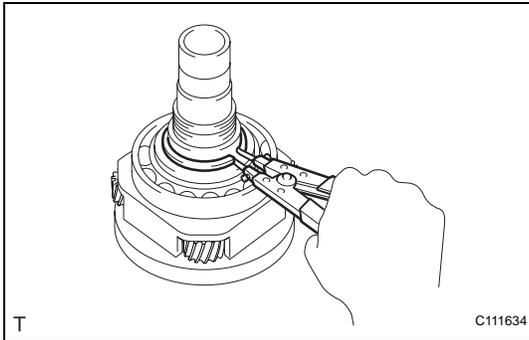
Be careful not to damage the low planetary gear.

- (b) Remove the spline piece.



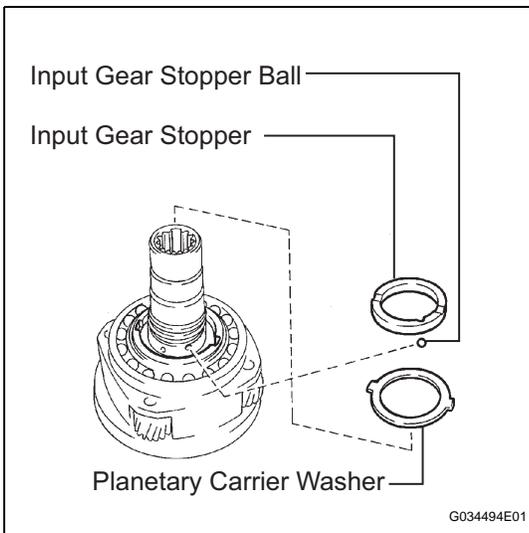


- 34. REMOVE TRANSFER OUTPUT SHAFT FRONT NEEDLE ROLLER BEARING**



- 35. REMOVE TRANSFER INPUT GEAR STOPPER SHAFT SNAP RING**

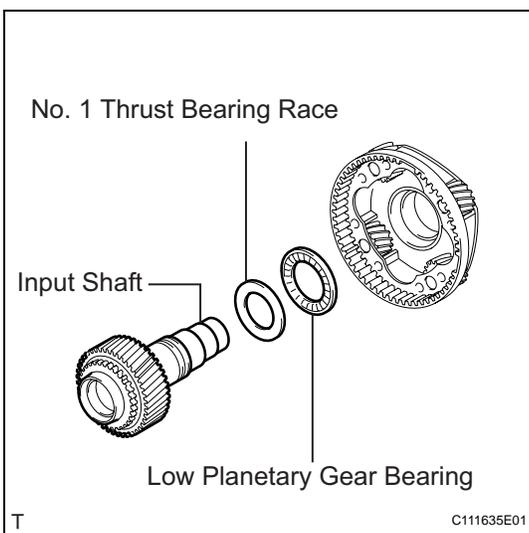
(a) Using a snap ring expander, remove the snap ring.



- 36. REMOVE TRANSFER INPUT GEAR STOPPER**

- 37. REMOVE TRANSFER INPUT GEAR STOPPER BALL**

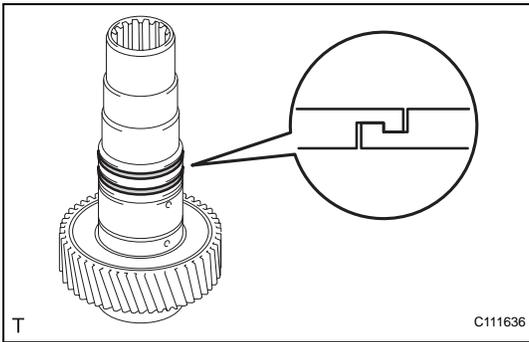
- 38. REMOVE MANUAL TRANSFER PLANETARY CARRIER WASHER**



- 39. REMOVE TRANSFER INPUT SHAFT**

- 40. REMOVE NO. 1 TRANSFER THRUST BEARING RACE**

- 41. REMOVE TRANSFER LOW PLANETARY GEAR BEARING**

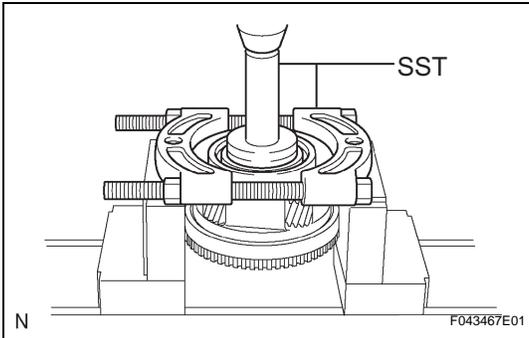


42. REMOVE NO. 1 TRANSFER INPUT SHAFT SEAL RING

- (a) Remove the 2 seal rings.

43. REMOVE TRANSFER INPUT SHAFT BEARING

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

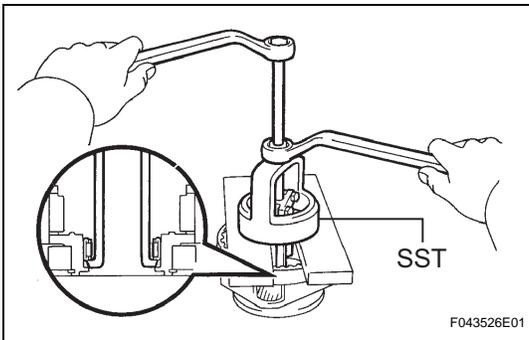


- (b) Using SST and a press, press out the bearing.

SST 09554-30011, 09555-55010

NOTICE:

Be careful not to drop or damage the low planetary gear.



44. REMOVE TRANSFER LOW PLANETARY GEAR BEARING

- (a) Using SST, remove the bearing.

SST 09612-65014 (09612-01030, 09612-01050)

NOTICE:

Hang SST securely between the bearing and low planetary gear.

45. REMOVE TRANSFER CLUTCH HUB

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

- (b) Remove the high and low clutch sleeves.

- (c) Using a press, press out the clutch hub.

NOTICE:

Be careful not to drop or damage the clutch hub.

46. REMOVE TRANSFER DRIVE SPROCKET SUB-ASSEMBLY (for A.D.D. Manual Shift Type)

- (a) Using SST and a press, press out the bearing.

SST 09555-55010

NOTICE:

Be careful not to drop or damage the output shaft.

