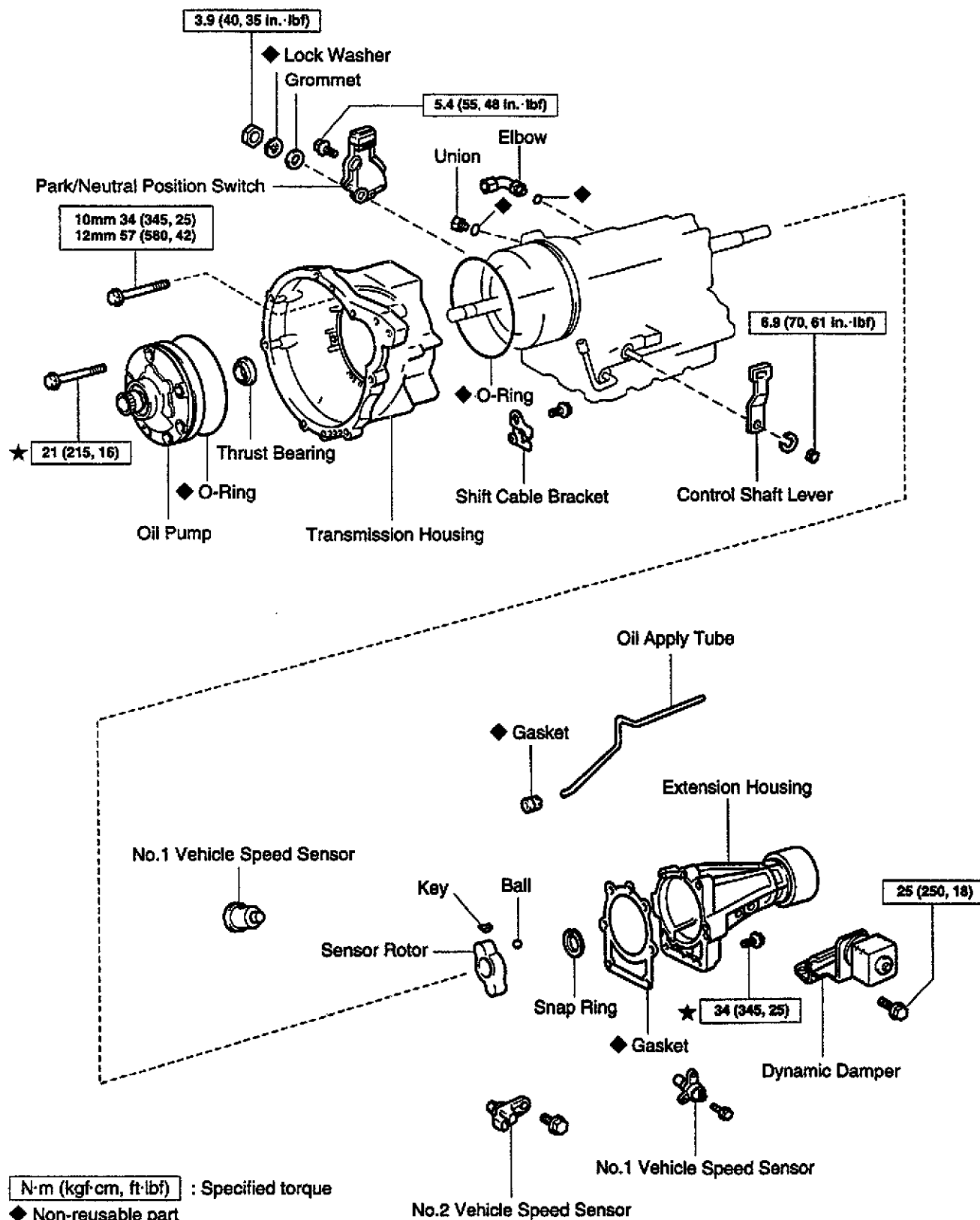
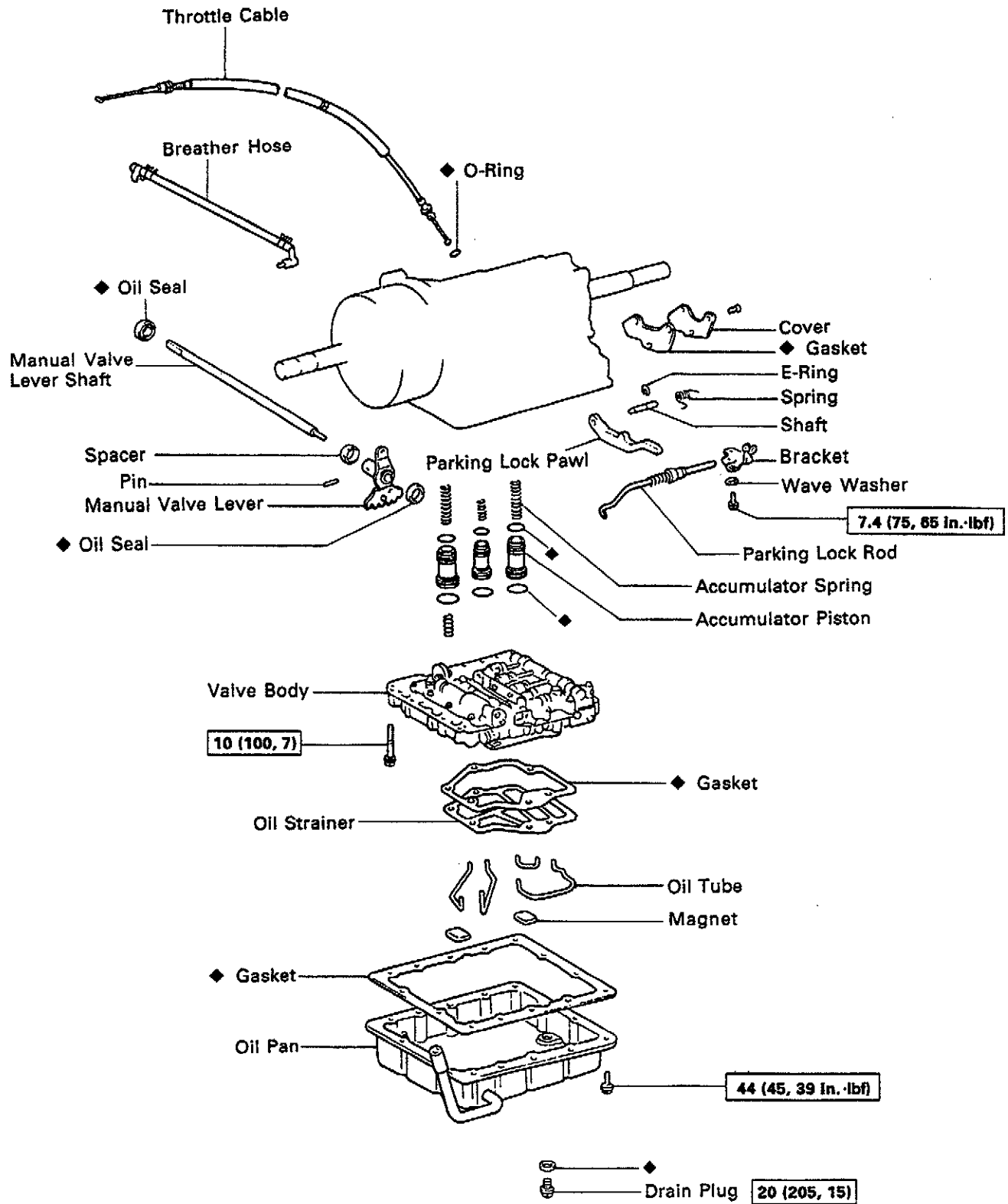


COMPONENT PARTS REMOVAL COMPONENTS

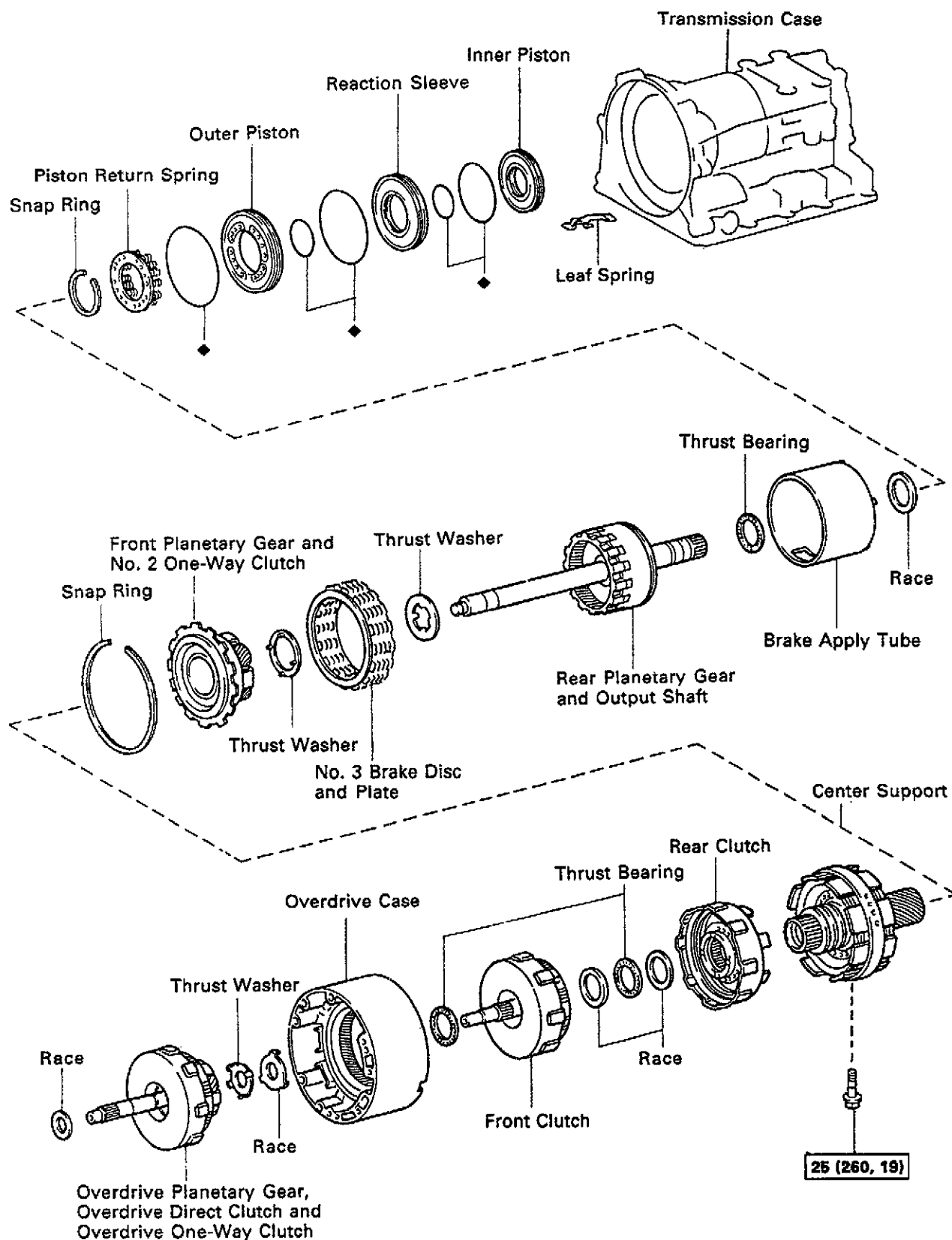
AT04B-06





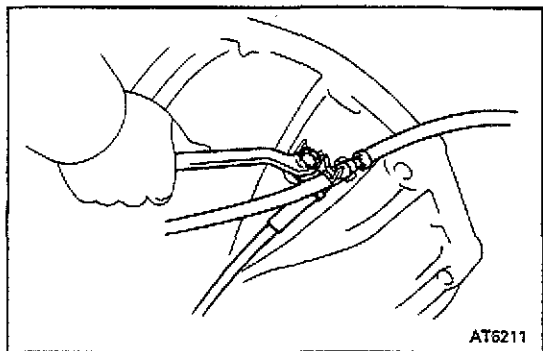
N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

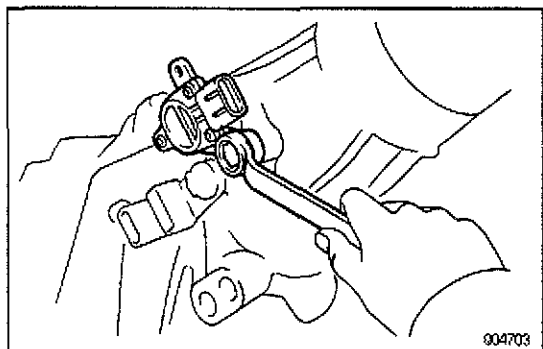


N·m (kgf-cm, ft-lbf) : Specified torque

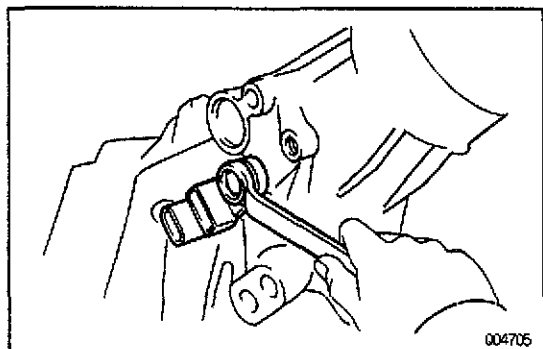
◆ Non-reusable part

TRANSMISSION REMOVAL**1. REMOVE THROTTLE CABLE CLAMP****2. REMOVE NO.1 VEHICLE SPEED SENSOR**

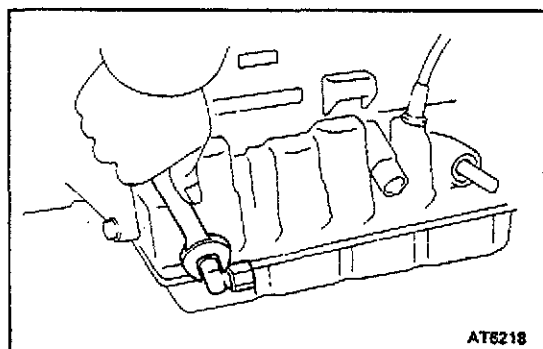
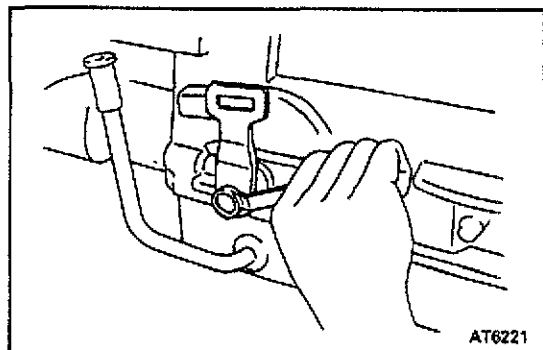
- (a) Remove the 4 bolt and the dynamic damper.
- (b) Remove the bolt and the No.1 vehicle speed sensor.

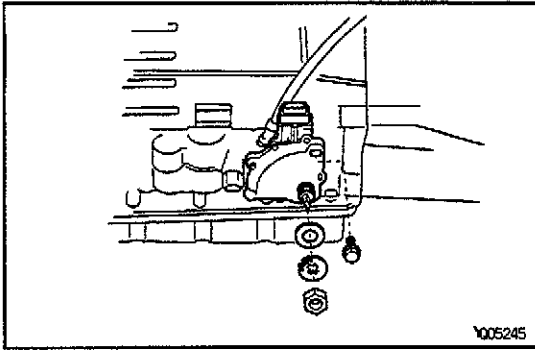
**3. REMOVE NO.2 VEHICLE SPEED SENSOR**

Remove the bolt and the No.2 vehicle speed sensor.

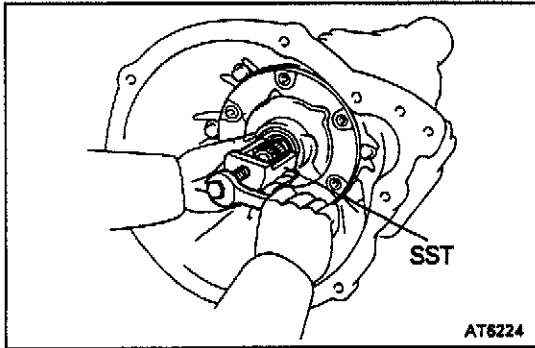
**4. REMOVE UNION AND ELBOW**

- (a) Remove the union and elbow.
- (b) Remove the O-rings from them.

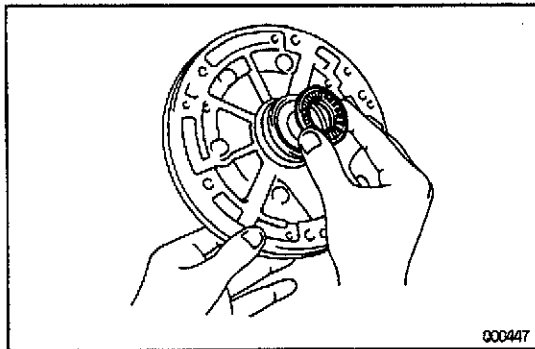
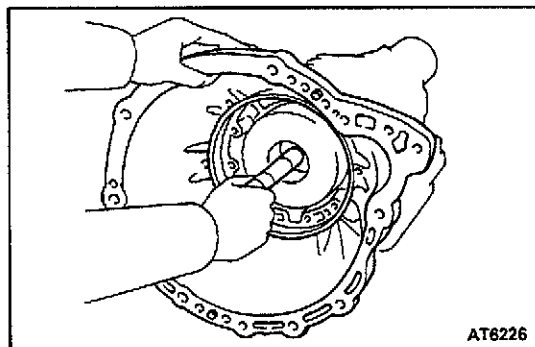
**5. REMOVE TRANSMISSION CONTROL SHAFT LEVER**

**6. REMOVE PARK/NEUTRAL POSITION SWITCH**

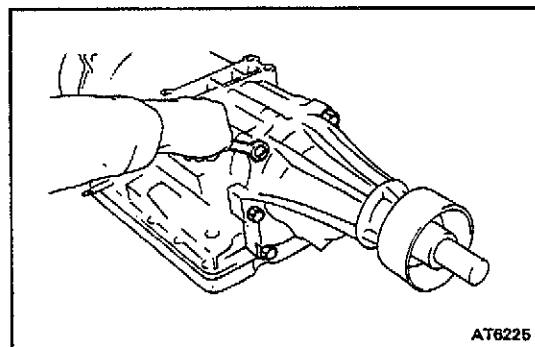
- (a) Unstake the lock washer.
- (b) Remove the nut and bolt, and then remove the park/neutral position switch.
- (c) Remove the lock washer and grommet.

**7. REMOVE OIL PUMP**

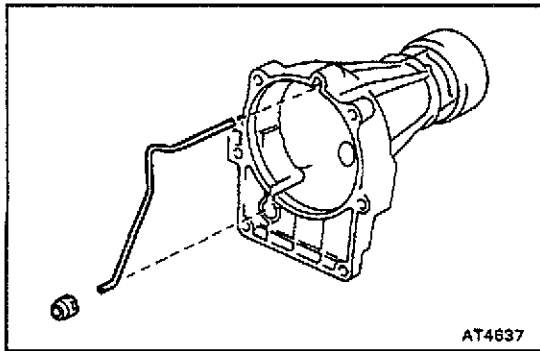
- (a) Remove the 7 bolts.
- (b) Position SST on the shaft in back of the spline.
SST 09610-20012
NOTICE: Do not damage the shaft bushing surface.
Turn the end bolt of SST to free the pump.
- (c) Grasp the front pump stator shaft and pull the pump from the case.

**8. WATCH FOR THRUST BEARING BEHIND OIL PUMP****9. REMOVE TRANSMISSION HOUSING**

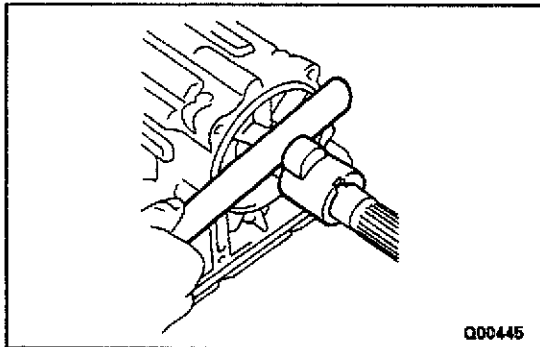
- (a) Remove the two 12 mm (0.472 in.) and four 10 mm (0.394 in.) bolts.
- (b) Hold the input shaft while removing the transmission housing.

**10. REMOVE EXTENSION HOUSING AND GASKET**

- (a) Remove the 6 bolts and the extension housing.
- (b) Remove the gasket from the extension housing.

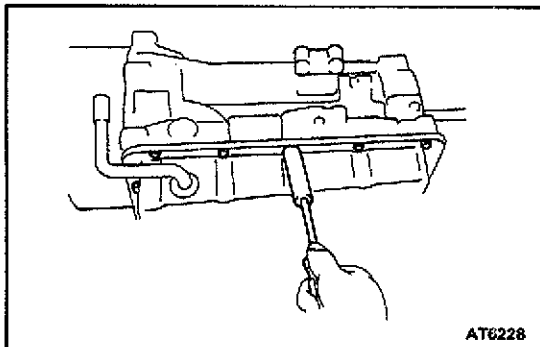


- (c) Remove the oil apply tube from the extension housing.



11. REMOVE SENSOR ROTOR

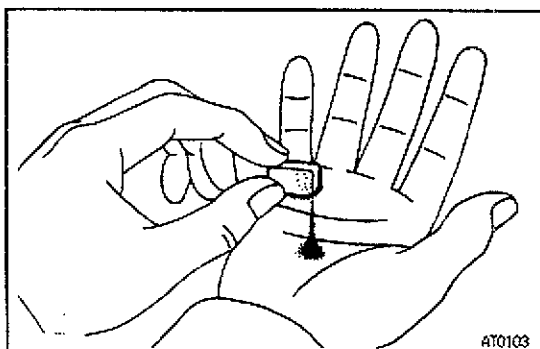
- Using a snap ring pliers, remove the snap ring from the output shaft.
- Remove the key and the sensor rotor.



12. REMOVE OIL PAN

NOTICE: Do not turn the transmission over as this will contaminate the valve body with any foreign matter at the bottom on the pan.

- Remove the 14 bolts.
- Remove the pan by lifting the transmission case.

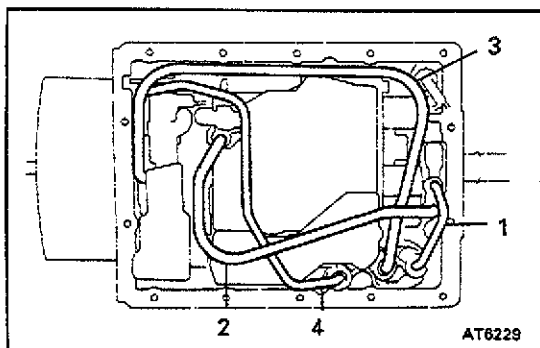


13. EXAMINE PARTICLES IN PAN

Remove the 2 magnets and use it to collect any steel chips. Look carefully at the chips and particles in the pan and on the magnet to anticipate what type of wear you will find in the transmission.

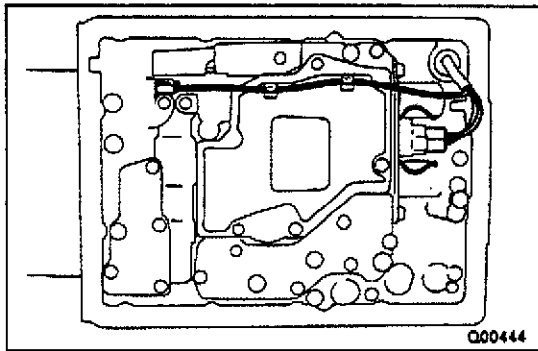
Steel (magnetic): bearing, gear and clutch plate

Brass (nonmagnetic): bushing wear

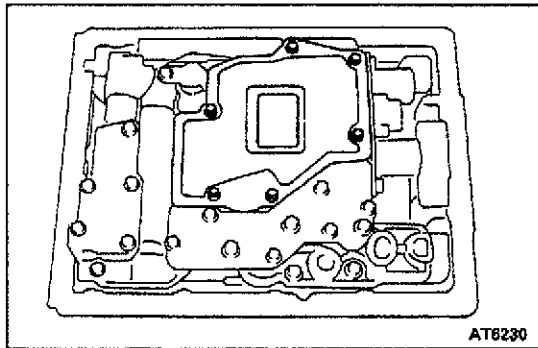


14. TURN TRANSMISSION OVER AND REMOVE OIL TUBES

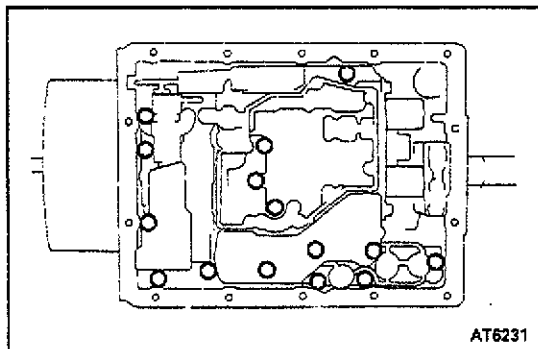
Pry up both oil tube ends with a large screwdriver and remove the 4 oil tubes.

**15. REMOVE SOLENOID WIRING**

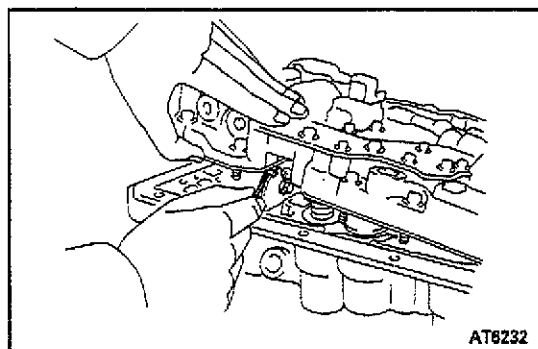
- (a) Disconnect the connector from the No.1 and No.2 solenoid and the No.3 solenoid.
- (b) Remove the bolt, lock plate and the grommet from the transmission case.
- (c) Pull the wiring out of the transmission case.

**16. REMOVE OIL STRAINER**

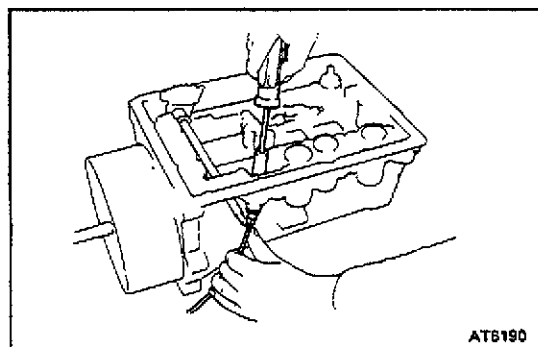
Remove the 6 bolts and the strainer.

**17. REMOVE VALVE BODY**

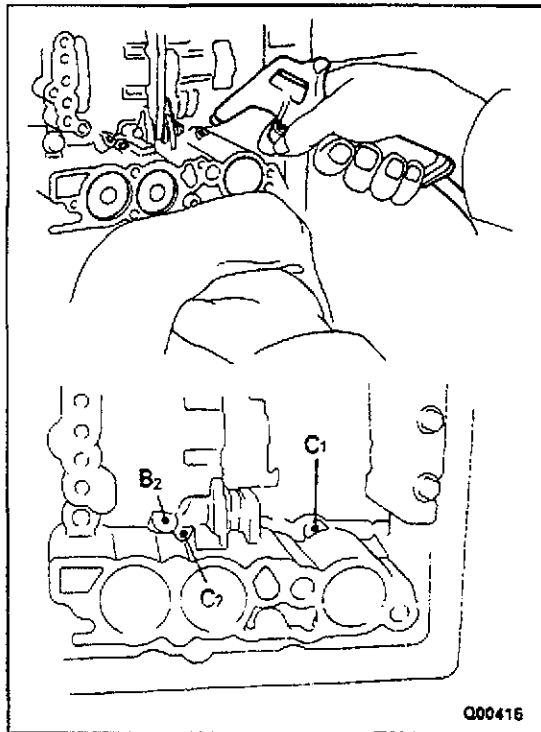
- (a) Remove the 15 bolts.



- (b) Disconnect the throttle cable from the cam and remove the valve body.

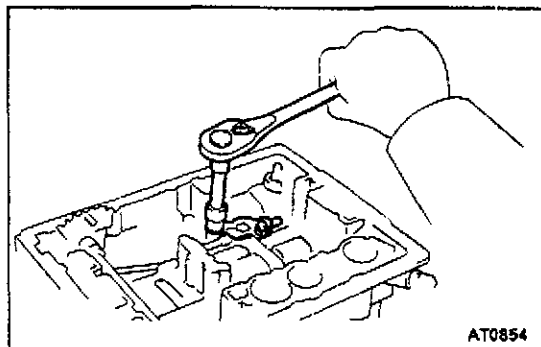
**18. REMOVE THROTTLE CABLE**

Using a 10 mm socket, push the throttle cable out of the transmission case.

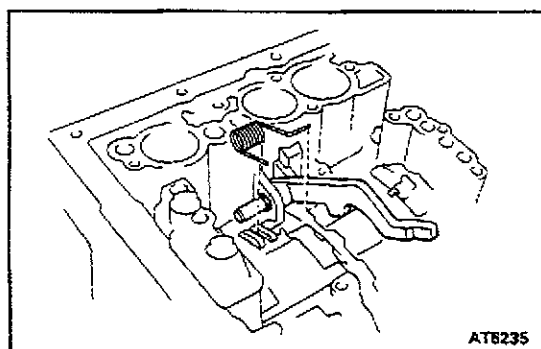
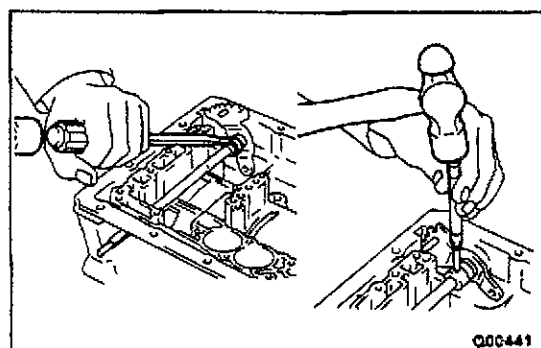
**19. REMOVE ACCUMULATOR PISTONS AND SPRINGS**

CAUTION: Keep face away to avoid injury.

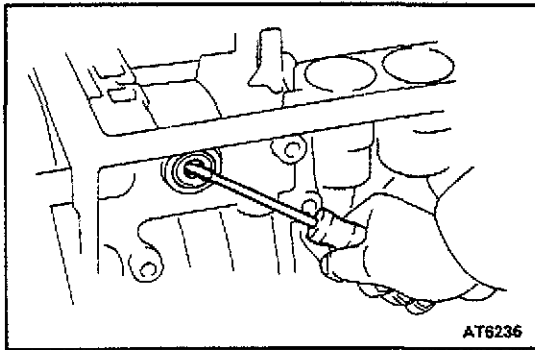
Position a shop rag to catch each piston. Applying compressed air to the oil hole, pop each piston into the shop rag. Force air into the holes shown, and remove the accumulator pistons and springs.

**20. REMOVE PARKING LOCK ROD**

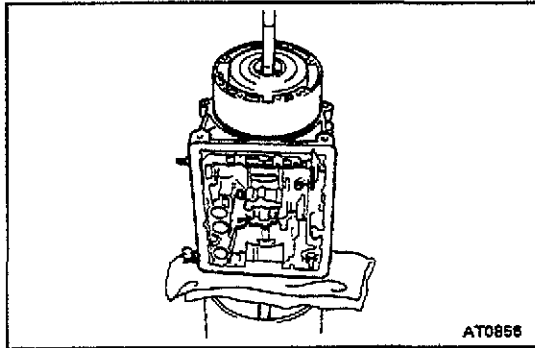
- (a) Remove 2 bolts and the bracket.
- (b) Remove the parking lock rod.

**21. REMOVE SPRING, PIVOT PIN AND PARKING LOCK PAWL****22. IF NECESSARY, REMOVE MANUAL LEVER SHAFT**

- (a) Using a hammer and screwdriver, pry and shift the spacer.
- (b) Using a hammer and punch, drive out the pin.
- (c) Slide the manual valve lever shaft out case and remove the manual valve lever and spacer.



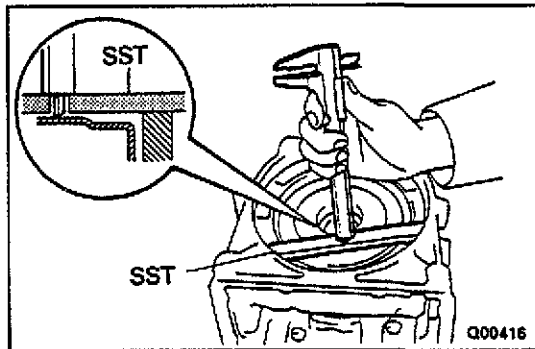
(d) Using a screwdriver, remove 2 oil seals.



23. PLACE TRANSMISSION CASE ON CYLINDER

Place the transmission on a cylinder stand for more efficient work.

NOTICE: Place shop rags between the case and stand to avoid damaging the case.

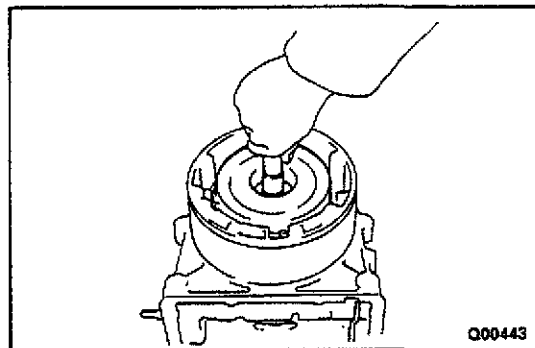


24. MEASURE DISTANCE BETWEEN TOP OF CASE AND CLUTCH DRUM

Set SST on the case.

SST 09350-20015 (09370-12010)

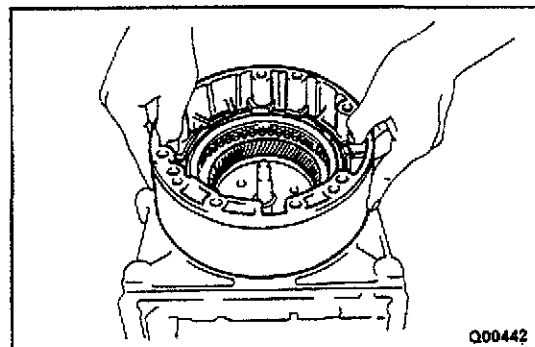
Make a note of the finding for reassembly.



25. REMOVE OVERDRIVE CLUTCH

Remove the overdrive clutch assembly.

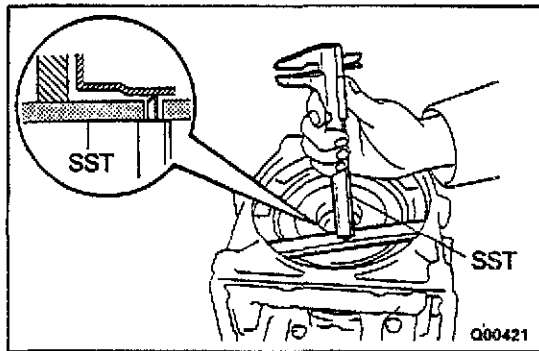
Watch for the thrust washer and races on both sides of the assembly.



26. REMOVE OVERDRIVE CASE

Remove the overdrive case from the transmission case.

Watch for the bearings, thrust washer and races on both sides of the assembly.



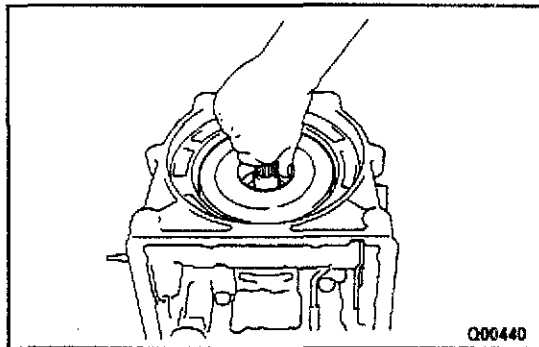
27. MEASURE DISTANCE BETWEEN TOP OF CASE AND CLUTCH DRUM

Set SST on the case.

SST 09350-20015 (09370-12010)

Make a note of the finding for reassembly.

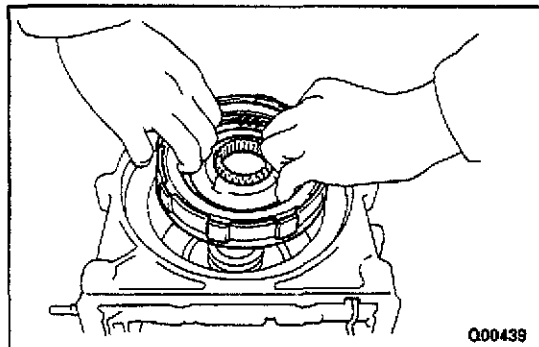
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28. REMOVE FRONT CLUTCH AND THRUST BEARINGS

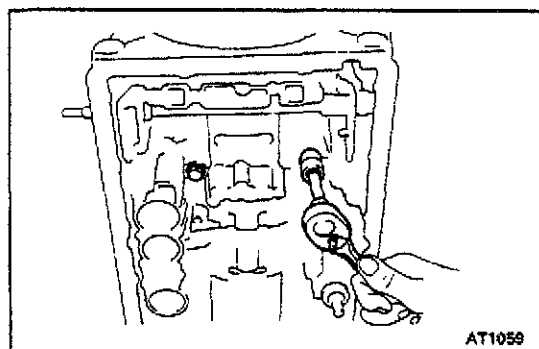
Remove the front clutch assembly.

Watch for the bearings and races on both sides of the assembly.



29. REMOVE REAR CLUTCH

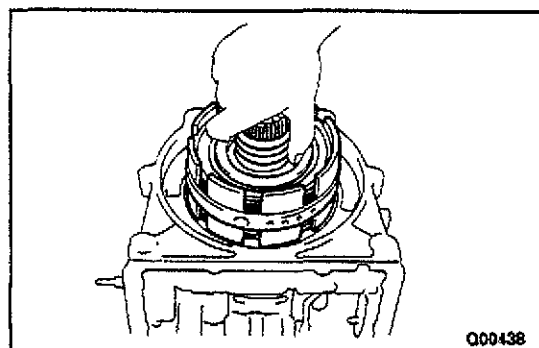
Remove the rear clutch hub and pull it out from the case.



30. REMOVE CENTER SUPPORT BOLTS

Remove the 2 center support bolts.

HINT: After removing one bolt, the other one will be loose.

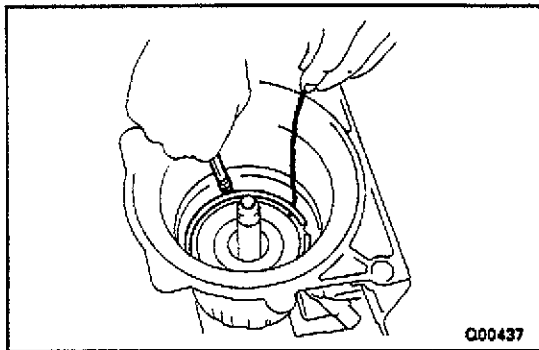


31. REMOVE CENTER SUPPORT AND SUN GEAR ASSEMBLY

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

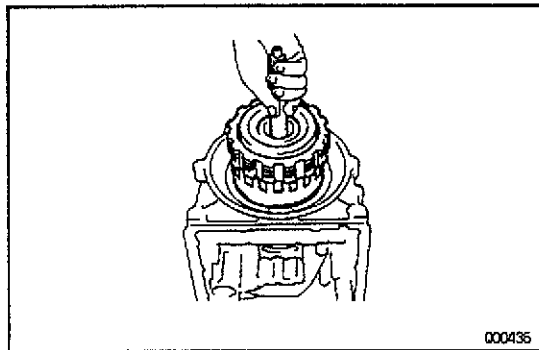
(b) Remove the center support and sun gear assembly from the case front opening.

Watch for the bearing race on the end of the sun gear.



32. REMOVE REAR PLANETARY GEAR AND OUTPUT SHAFT ASSEMBLY

- (a) Using a long screwdriver, compress the snap ring and lift it above the groove with a wire hook.

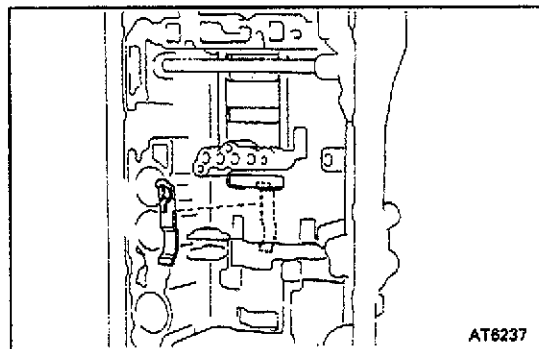


- (b) Using snap ring pliers, remove the snap ring from the output shaft.

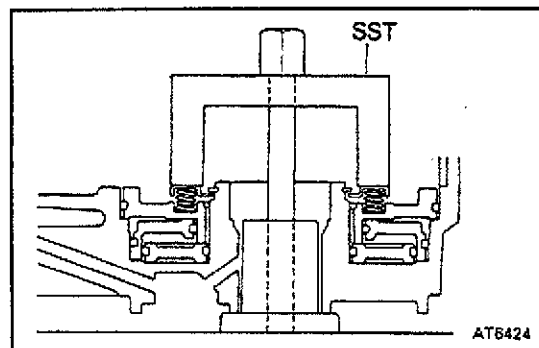
- (c) Pull the intermediate shaft out.

If the brake apply tube and rear thrust bearing and races do not come out with the assembly, remove them from the case.

Watch for the bearing and race in the transmission case.



33. REMOVE LEAF SPRING



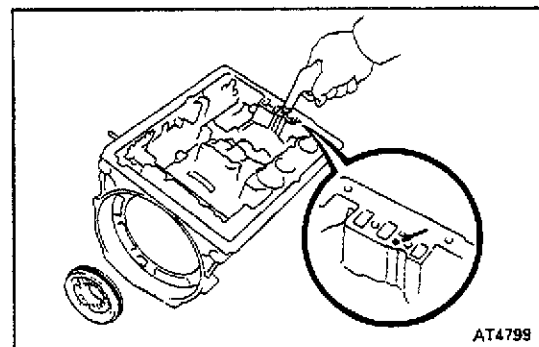
34. REMOVE COMPONENTS OF FIRST AND REVERSE BRAKE

- (a) Set SST on the spring retainer, and compress the return spring.

SST 09350-20015 (09369-20040)

- (b) Using snap ring pliers, remove the snap ring.

- (c) Remove the piston return spring.

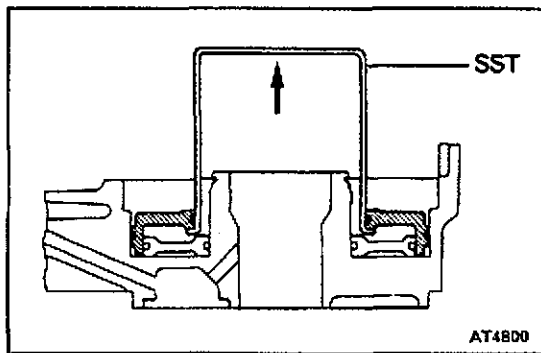


- (d) Hold first and reverse brake outer piston with hand, apply compressed air to the transmission case to remove first and reverse brake outer piston.

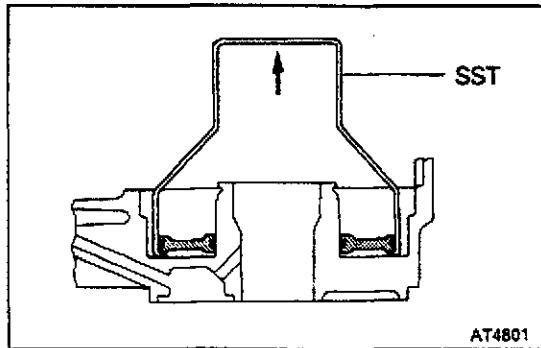
- (e) Remove first and reverse brake outer piston.

If the piston does not pop out with compressed air, lift the piston out with needle-nose pliers.

- (f) Remove the O-ring from outer piston.



- (g) Install SST behind the reaction sleeve and gradually lift it out of the transmission case.
SST 09350-30020 (09350-07080)
- (h) Remove the 2 O-rings from the reaction sleeve.



- (i) Install SST behind the inner piston and gradually lift it out of the transmission case.
SST 09350-30020 (09350-07090)
- (j) Remove the 2 O-rings from the inner piston.

35. BASIC DISASSEMBLY IS COMPLETE

The transmission is now in basic component sub-assemblies. Next, disassemble, clean, inspect, repair and assemble each of these component parts.