

UNIT REPAIR

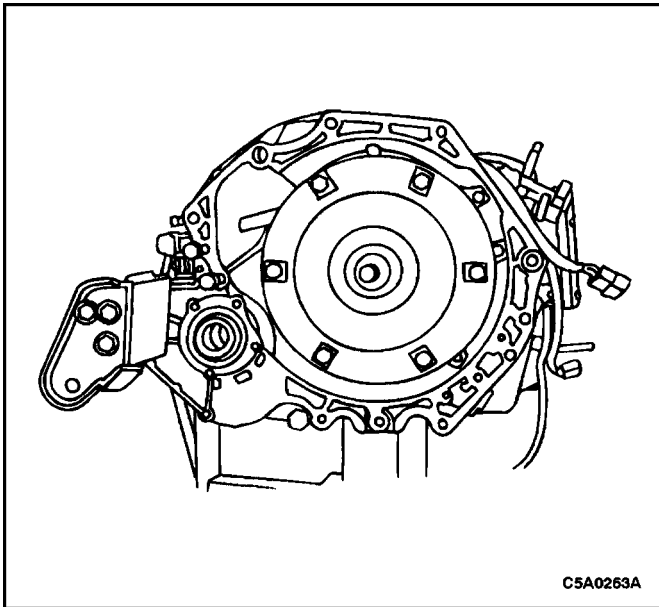
MAJOR COMPONENT DISASSEMBLY

Tools Required

KM-210-A Bearing Puller
KM-709 Bearing Puller Adapter

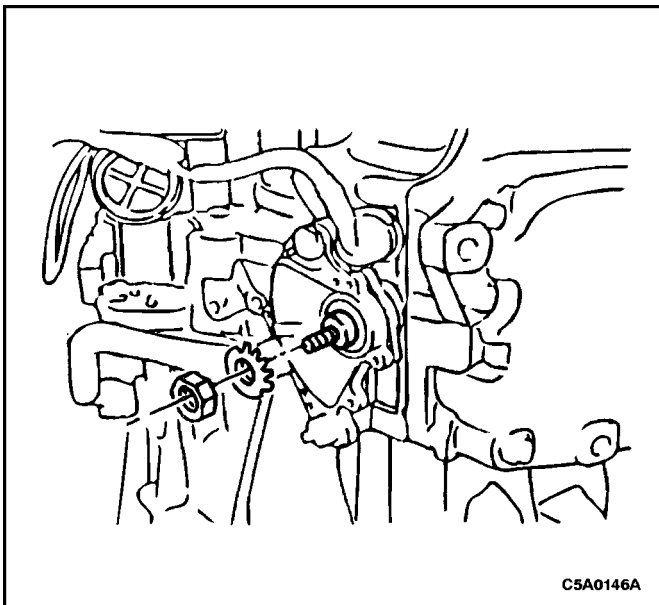
Disassembly Procedure

1. Remove the torque converter.

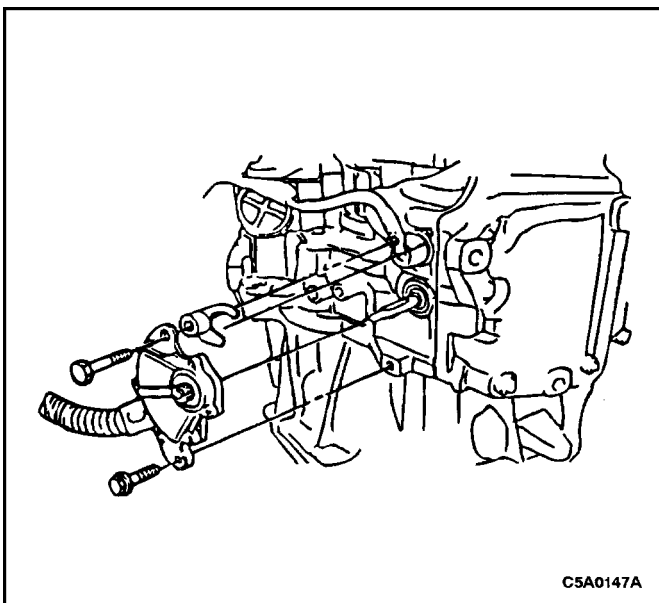


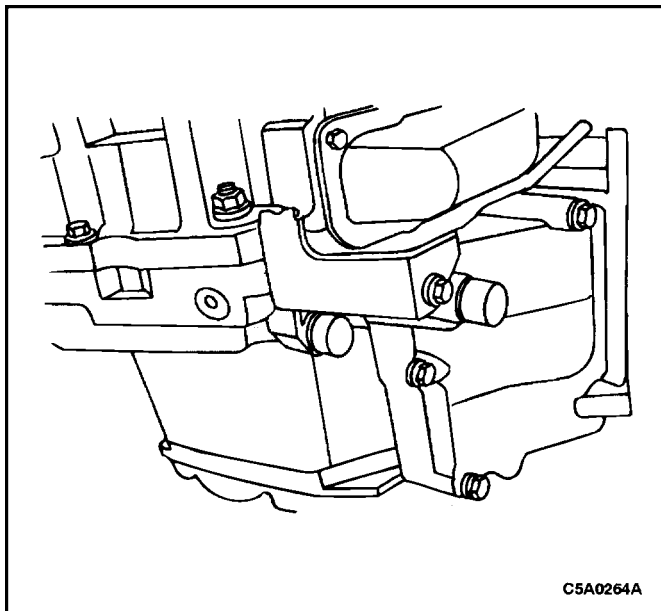
Notice : Loosen the staked part of the washer before removing.

2. Remove the park/neutral position (PNP) switch nut and washer.

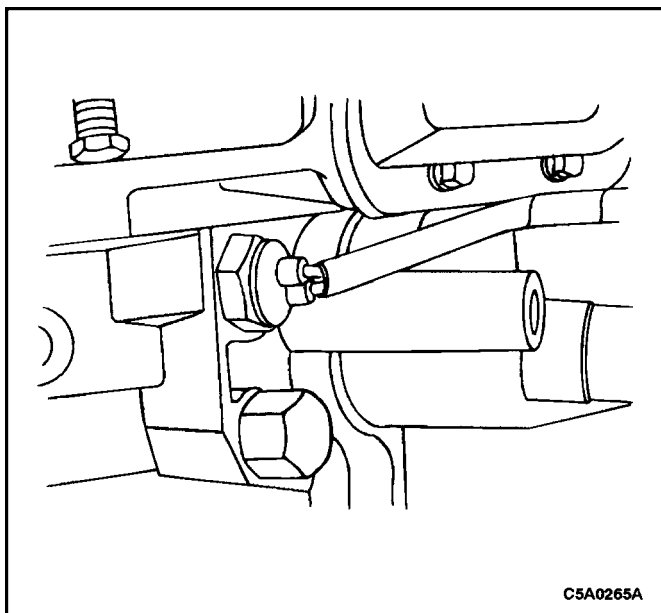


3. Remove the two bolts and the PNP switch.



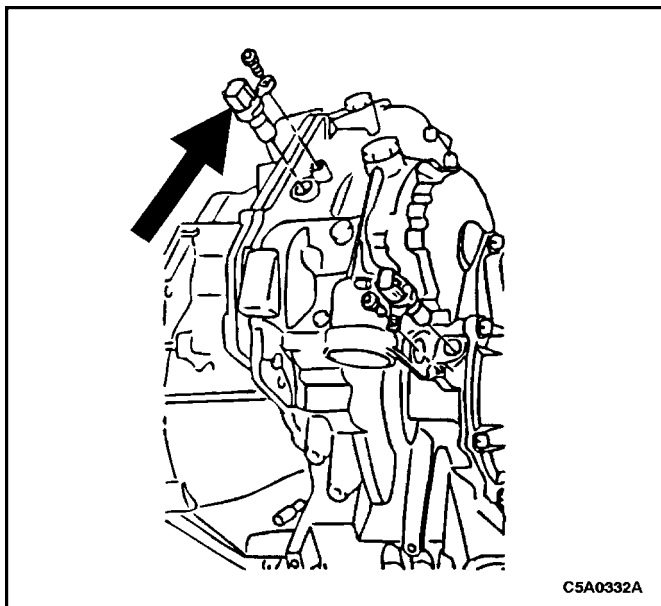


4. Remove the Transmission Fluid Temperature (TFT) sensor protector bracket.

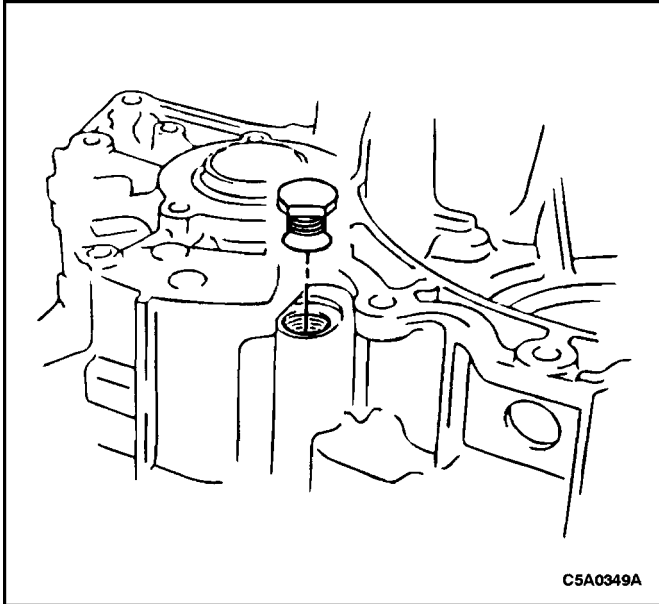


Notice : Remove and discard the O–ring.

5. Remove the Transmission Fluid Temperature (TFT) sensor.

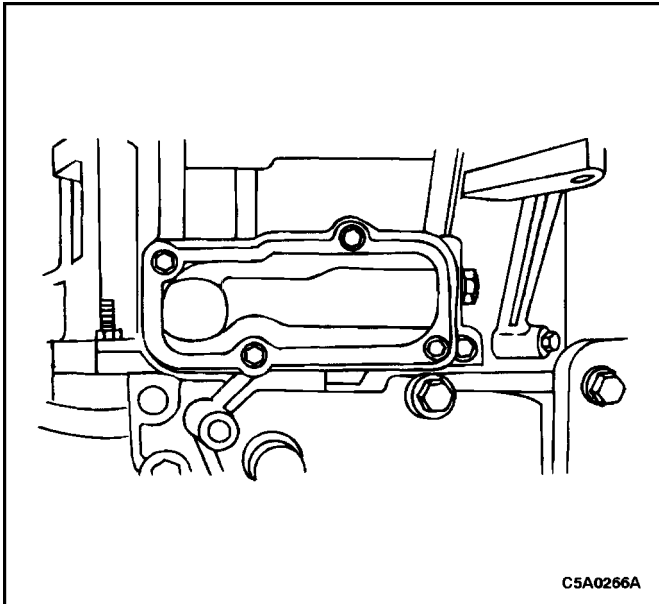


6. Remove the input shaft speed (ISS) and output shaft speed (OSS) sensors.



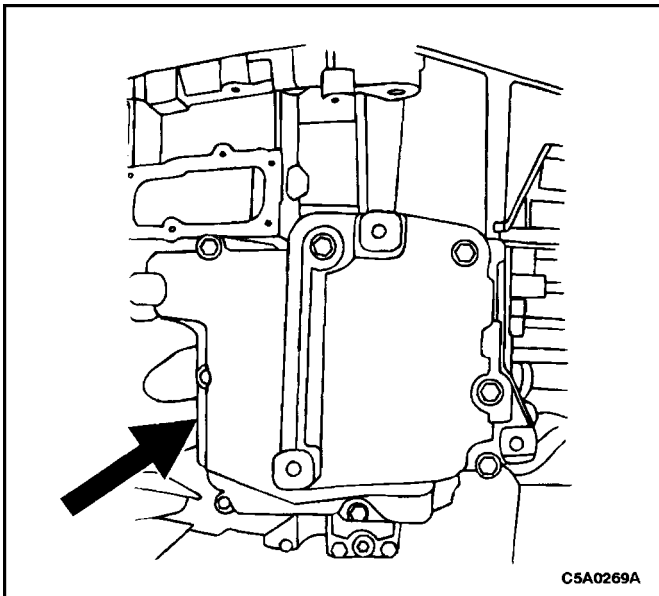
Notice : Discard the gasket.

7. Remove the drain plug and gasket.



CAUTION : Be careful not to damage the contact surfaces of the transaxle housing.

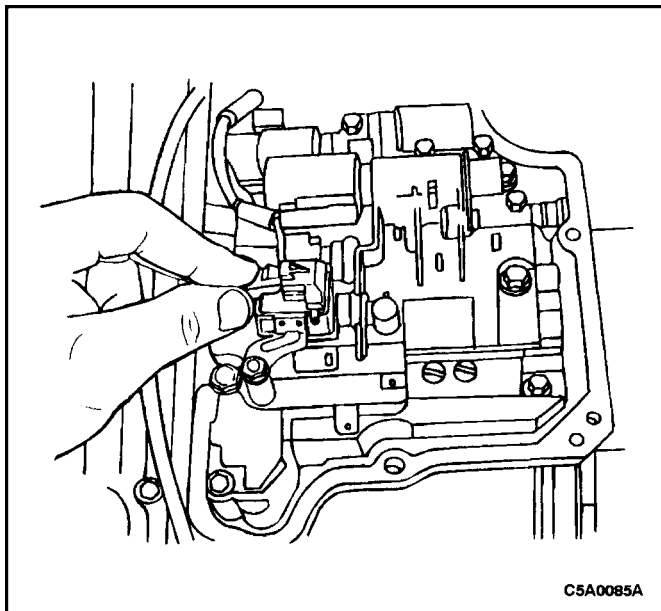
8. Remove the transaxle housing cover.



CAUTION : Be careful not to damage the contact surfaces of the transaxle housing.

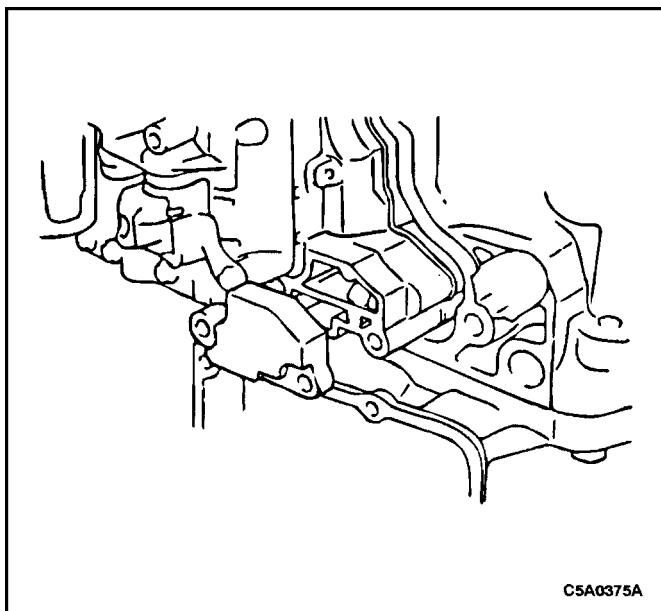
9. Remove the valve body cover.

10. Disconnect the solenoid electrical connectors.



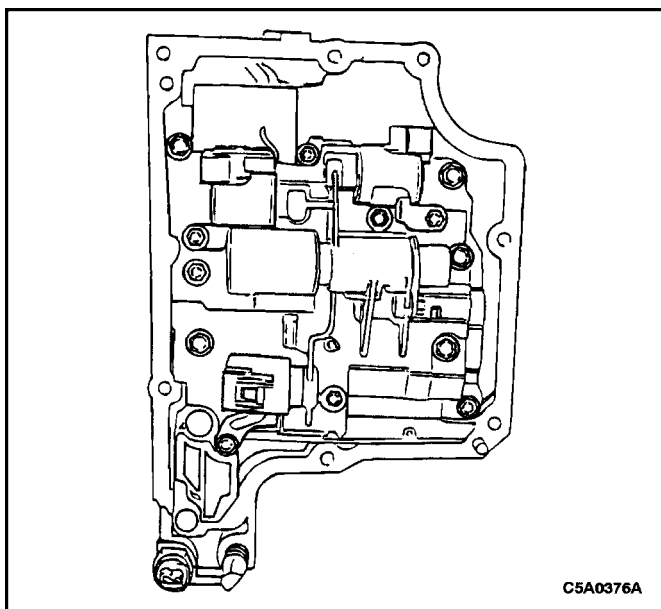
Notice : Discard the gasket.

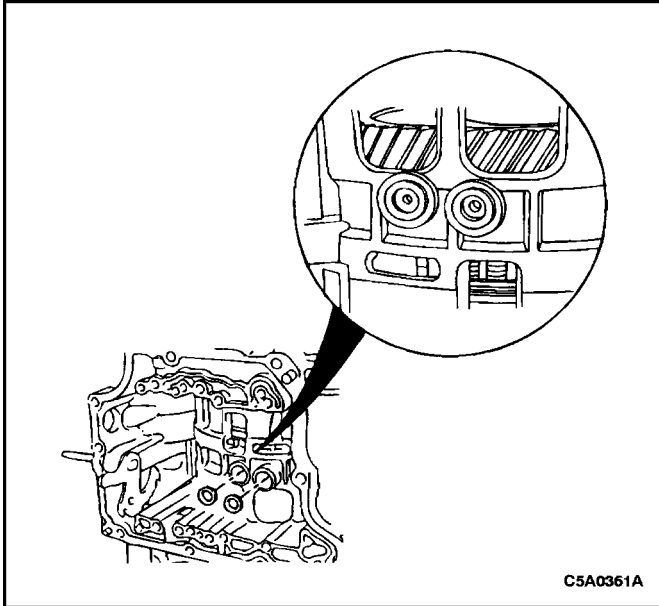
11. Remove the suction cover and gasket.



Notice : Disconnect the manual valve connecting rod from the manual valve lever.

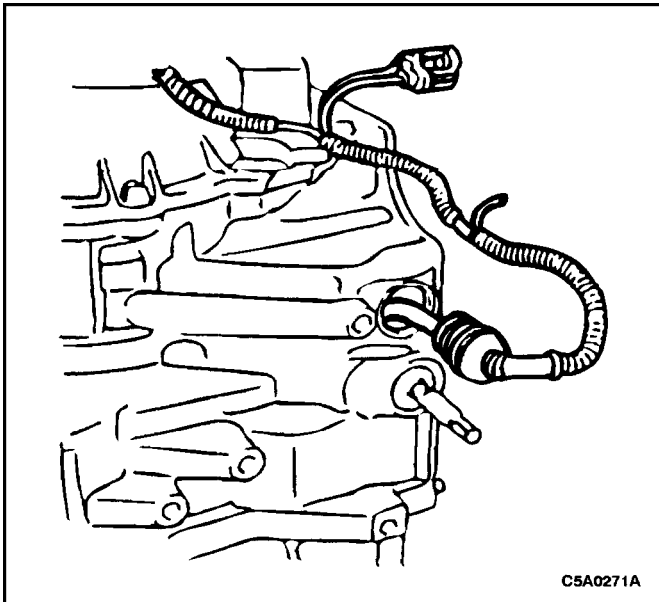
12. Remove the seven bolts and the valve body.



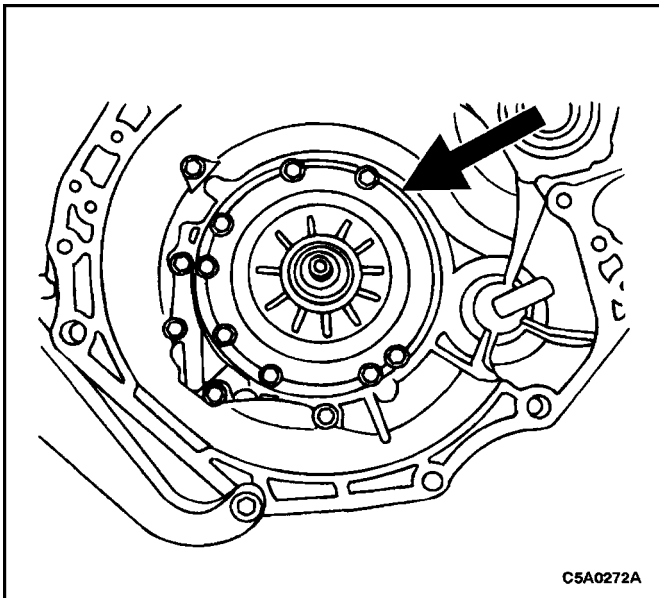


Notice : Discard the apply seals.

13. Remove the two apply seals.



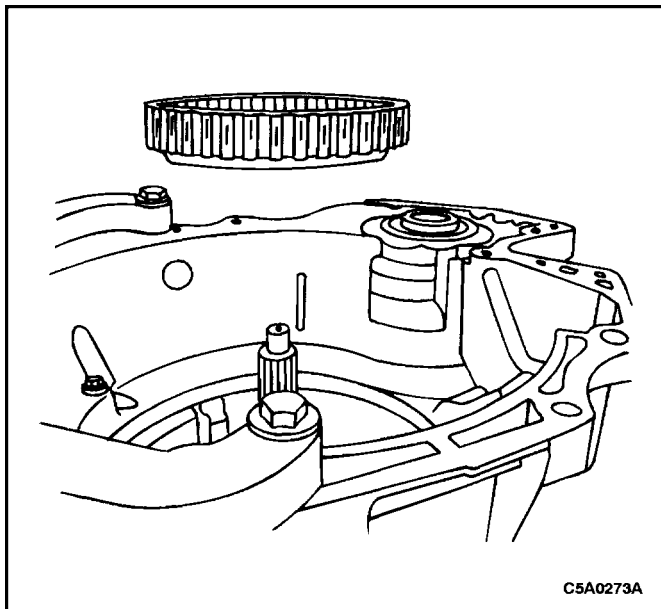
14. Remove the solenoid wire harness.



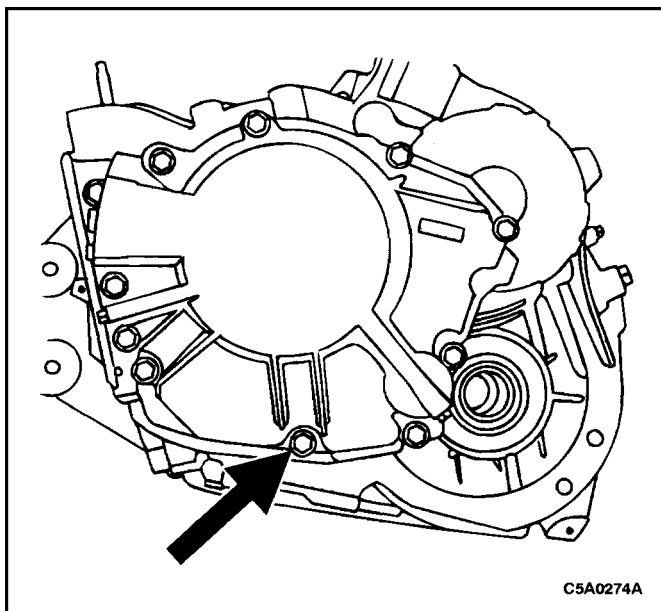
CAUTION : Be careful not to damage the stator shaft bushing.

Notice : Loosen the bolts evenly.

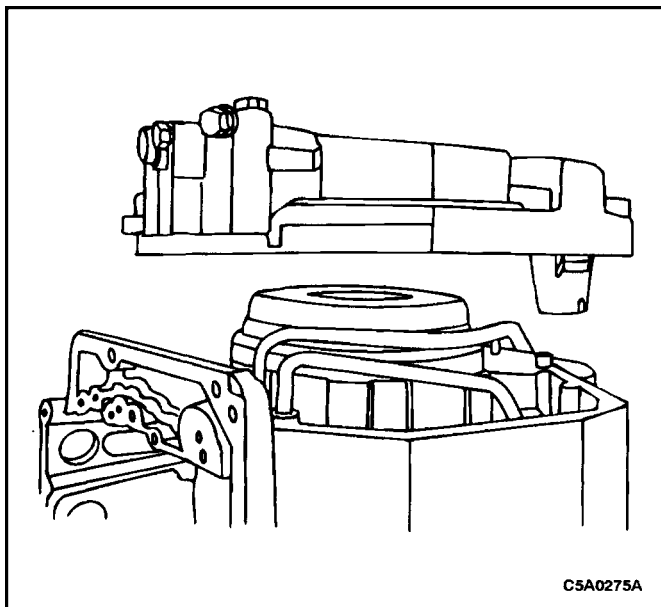
15. Remove the oil pump, second coast and second brake assembly.



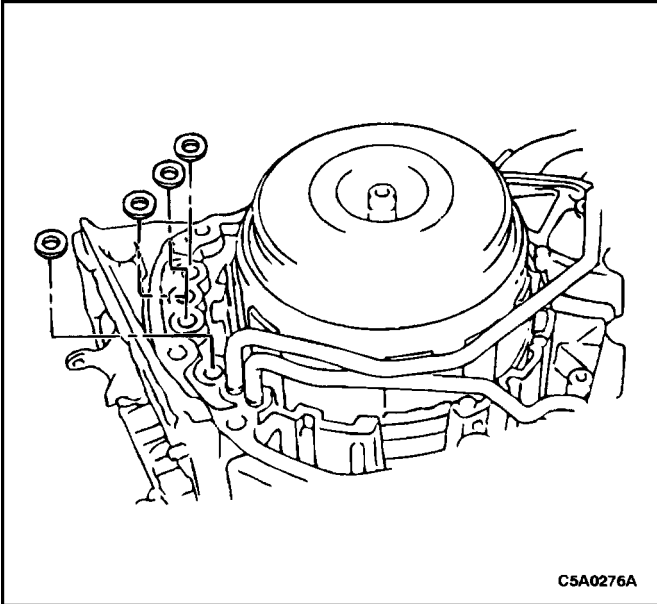
16. Remove the brake hub and one-way clutch.



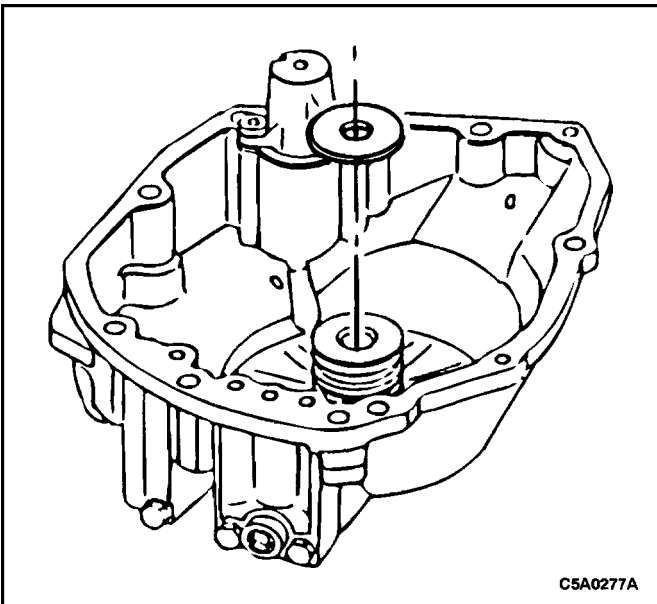
17. Remove the nine transaxle rear case bolts.



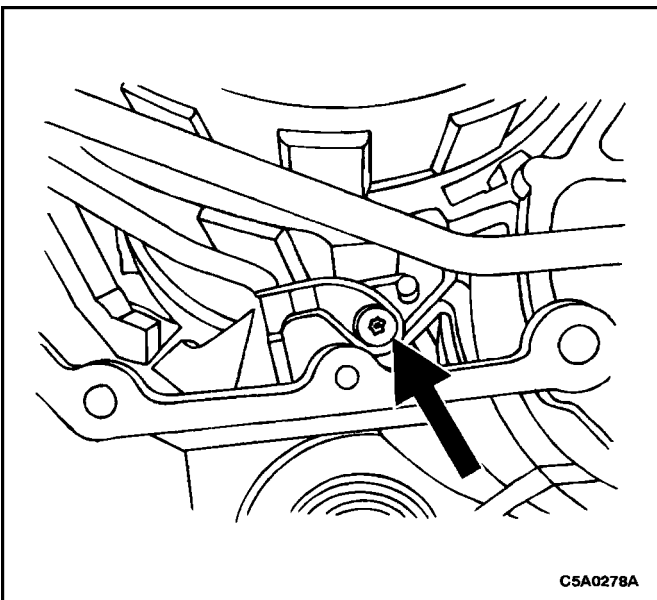
18. Remove the transaxle rear case.



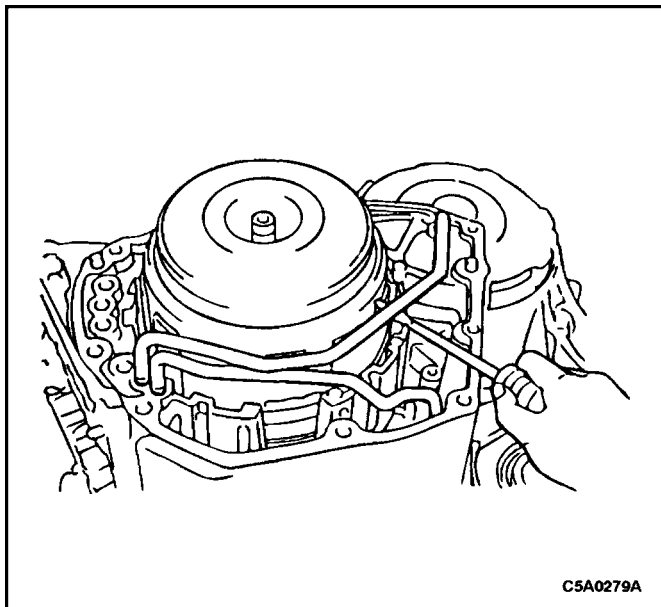
Notice : Discard the apply seals.
 19. Remove the four apply seals.



20. Remove the thrust washer from the transaxle rear case.



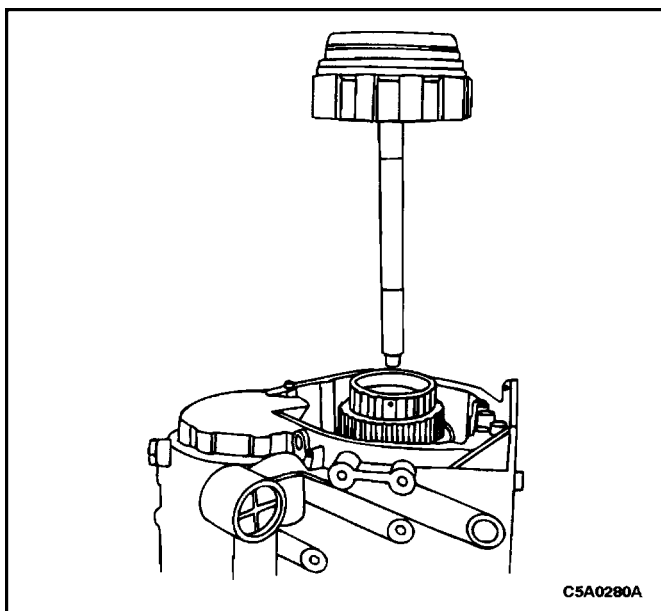
21. Remove the tube clamp bolt and the clamp.



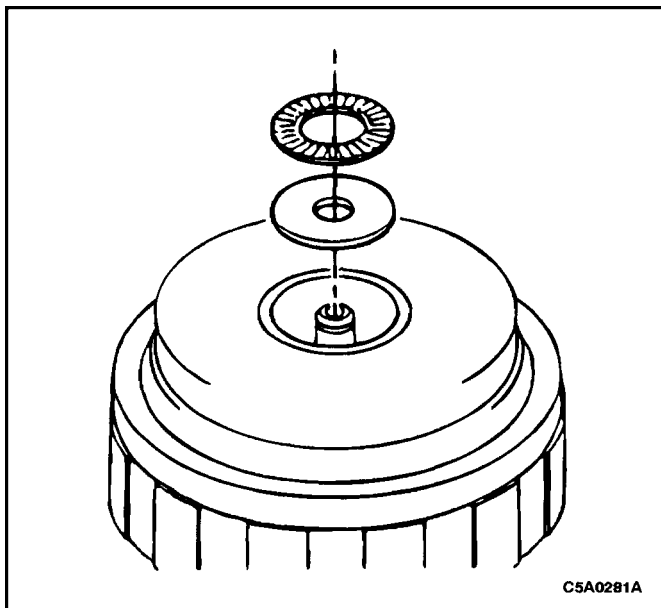
CAUTION : Be careful not to damage the tubes.

22. Remove the apply tubes.

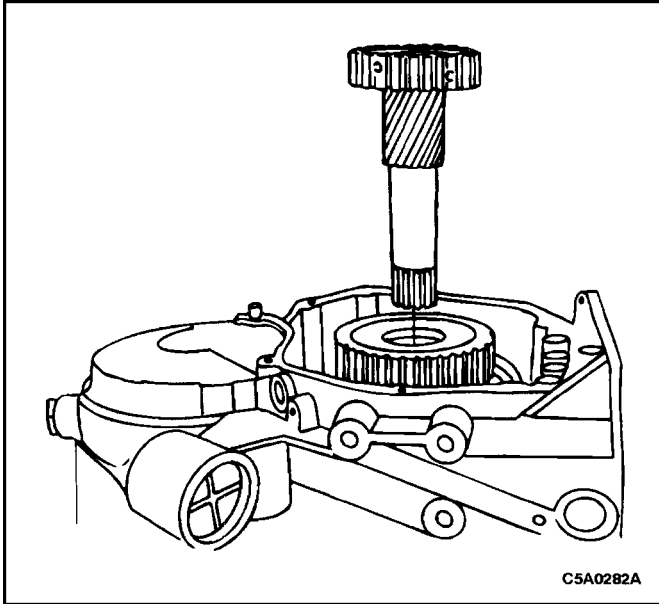
- Pry up both ends of the tube with a large screwdriver.



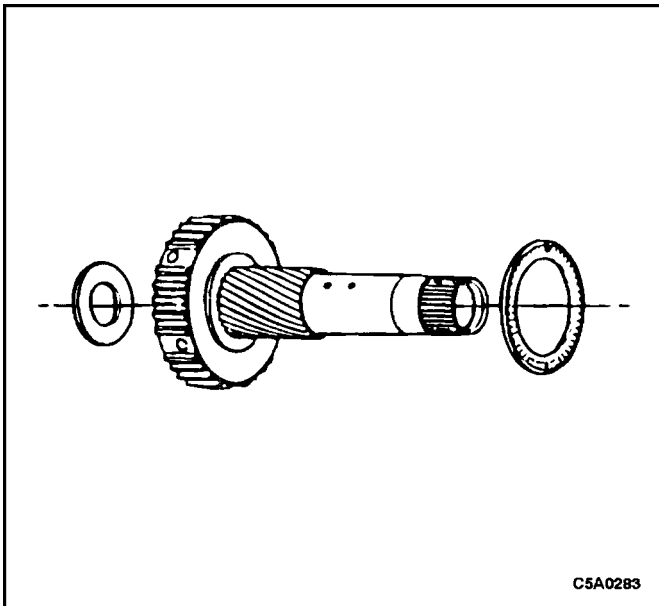
23. Remove the forward/direct clutch assembly.



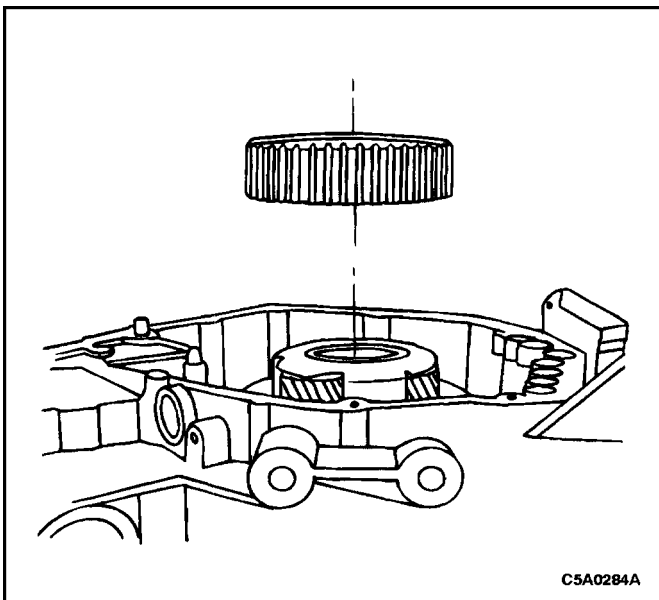
24. Remove the forward/direct clutch thrust washer and bearing.



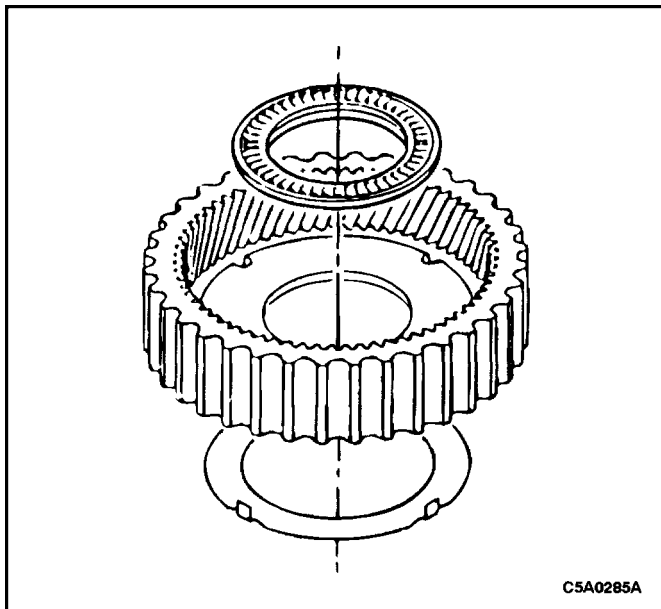
25. Remove the planetary sun gear.



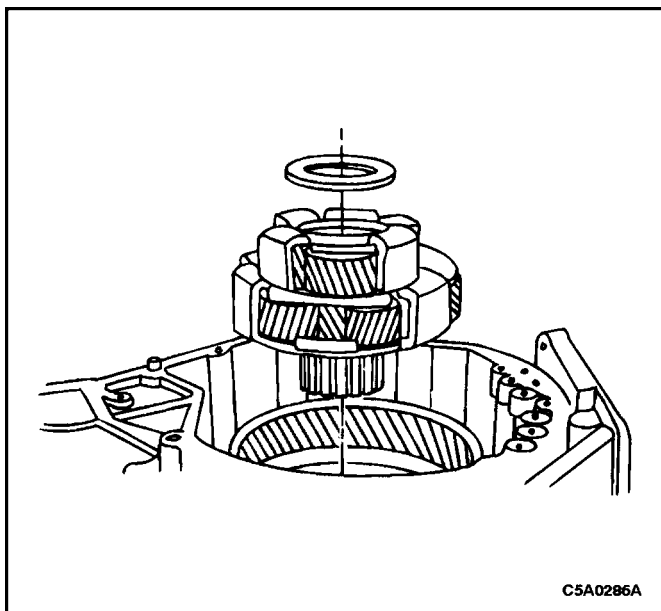
26. Remove the planetary sun gear thrust washer and bearing.



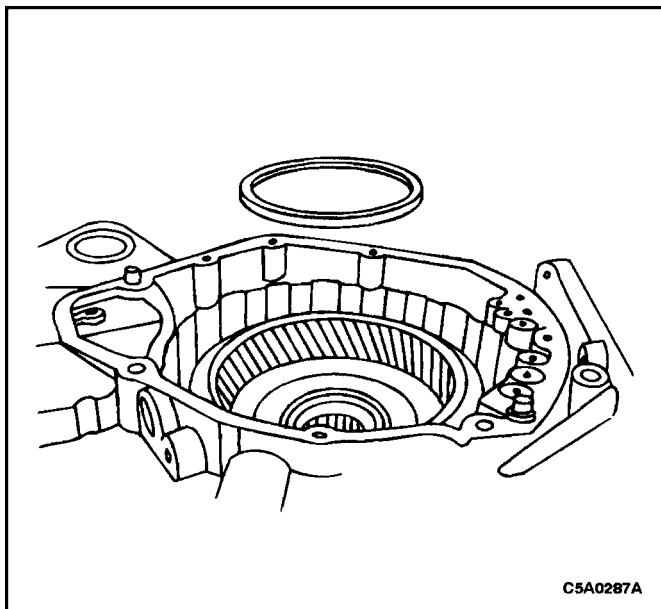
27. Remove the rear planetary ring gear.



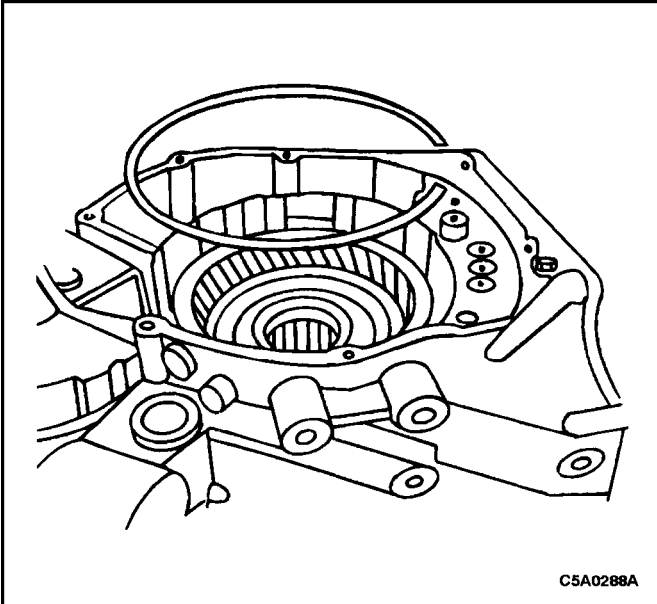
28. Remove the rear planetary ring gear thrust washer and bearing.



29. Remove the planetary gear and thrust washer.

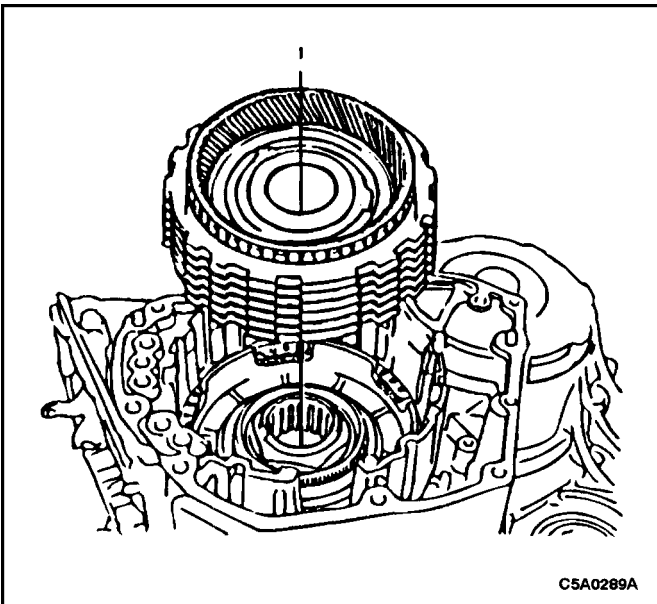


30. Remove the bearing.

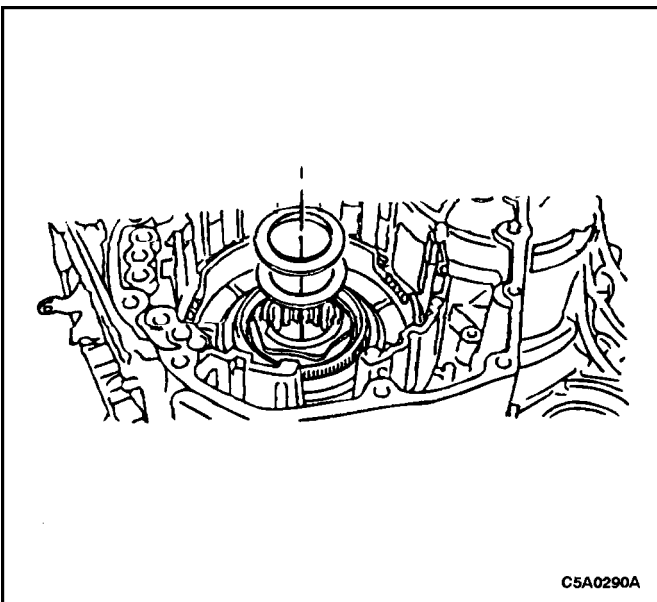


WARNING : USE CAUTION WHEN REMOVING SNAP RINGS OR PERSONAL INJURY MAY RESULT.

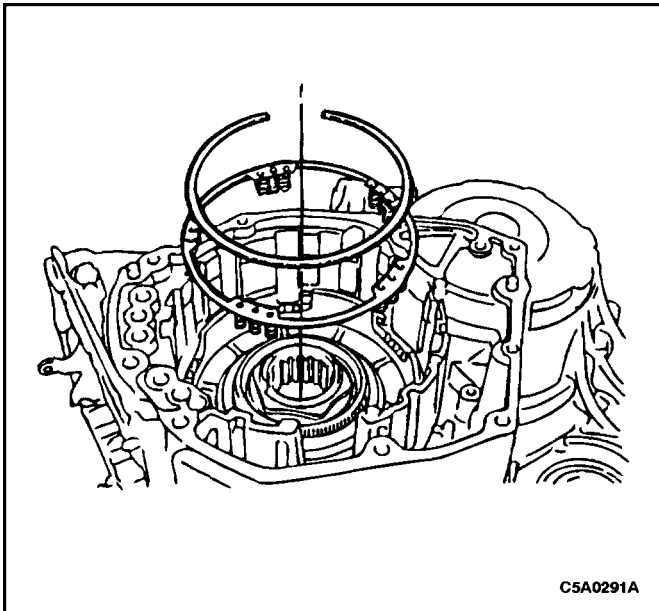
31. Remove the snap ring retaining the low/reverse brake clutch piston assembly, front planetary ring gear and one-way clutch.



32. Remove the low/reverse brake clutch piston assembly, front planetary ring gear and one-way clutch.

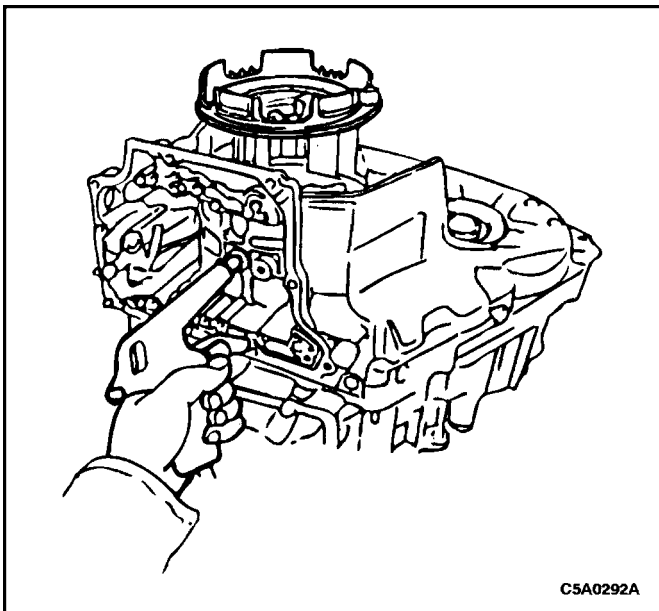


33. Remove the thrust washer and bearing.



WARNING : USE CAUTION WHEN REMOVING SNAP RINGS OR PERSONAL INJURY MAY RESULT.

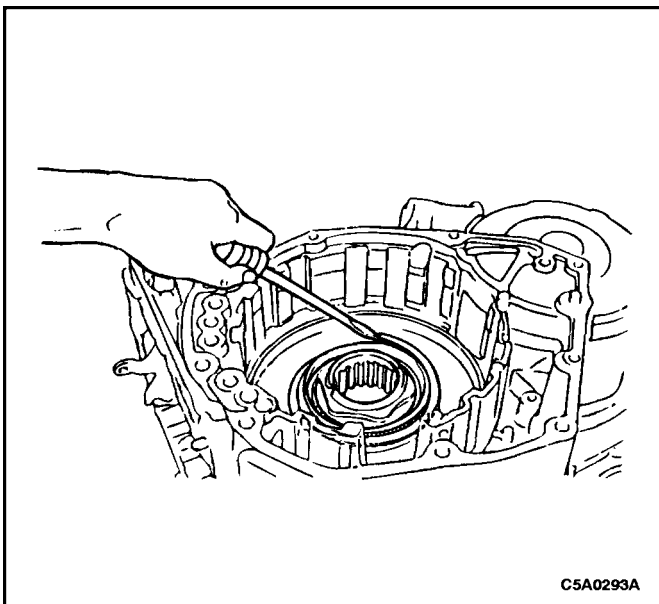
34. Remove the snap ring and the low/reverse return spring.



WARNING : USE CAUTION WHEN REMOVING COMPONENTS WITH COMPRESSED AIR OR PERSONAL INJURY MAY RESULT.

Notice : If the piston does not come out completely, use needlenose pliers to remove.

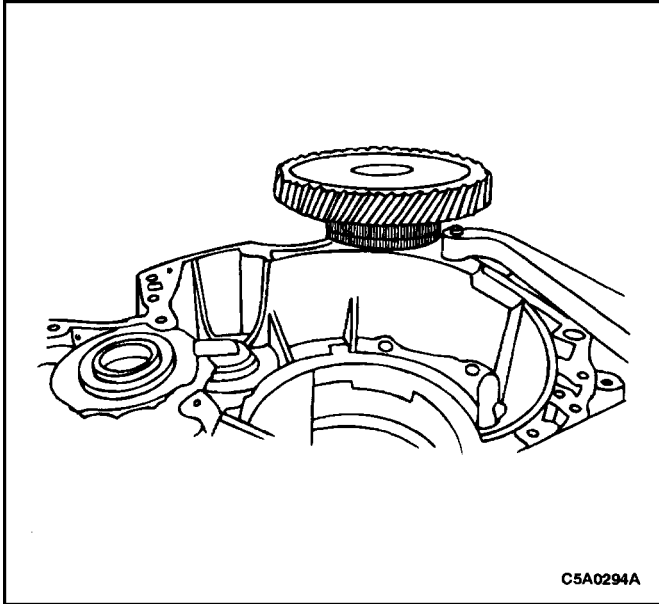
35. Apply 57 psi (396 kPa) of compressed air into the oil passage to remove the low/reverse brake piston.



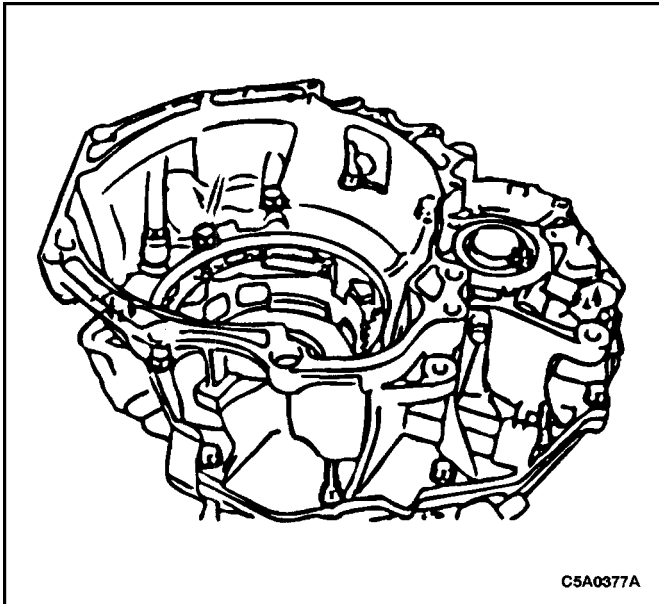
WARNING : USE CAUTION WHEN REMOVING SNAP RINGS OR PERSONAL INJURY MAY RESULT.

Notice : Rotate the transaxle on its side before removing.

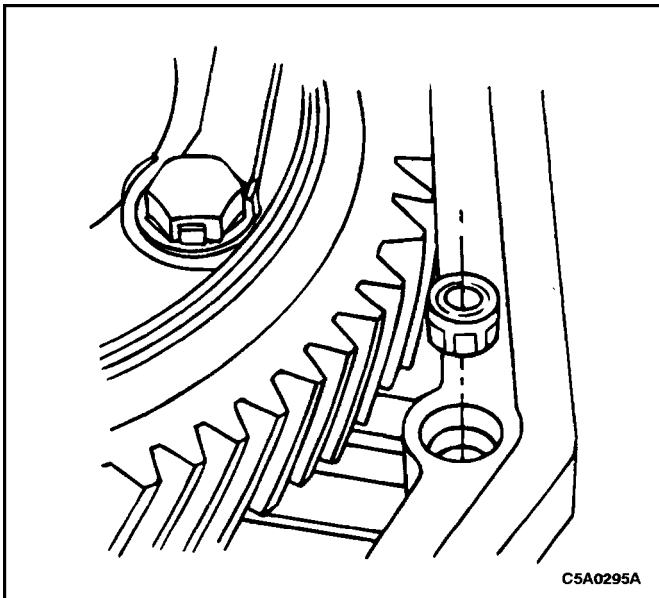
36. Remove the counter drive gear snap ring.



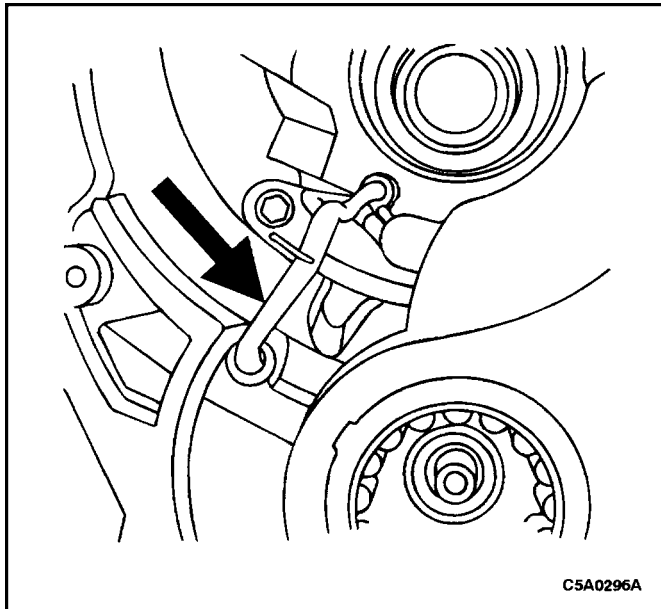
37. Remove the counter drive gear.



38. Remove the 15 bolts and separate the transaxle housing from the transaxle case.

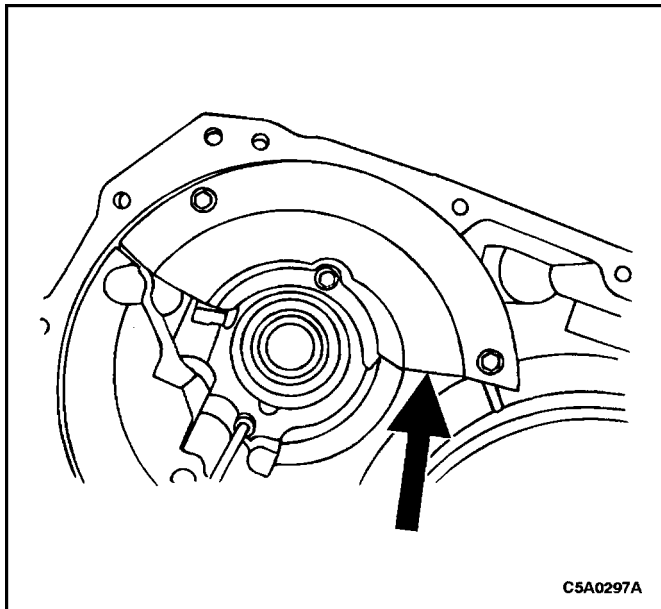


39. Remove and discard the apply seal.

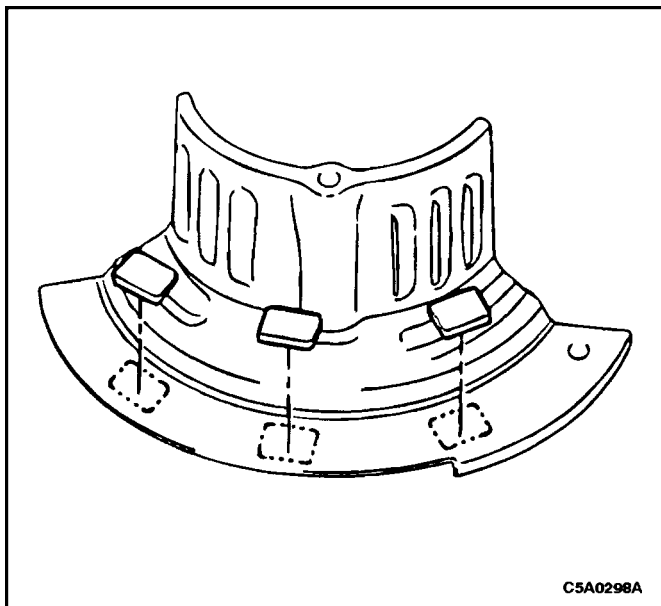


CAUTION : Be careful not to damage the tube.

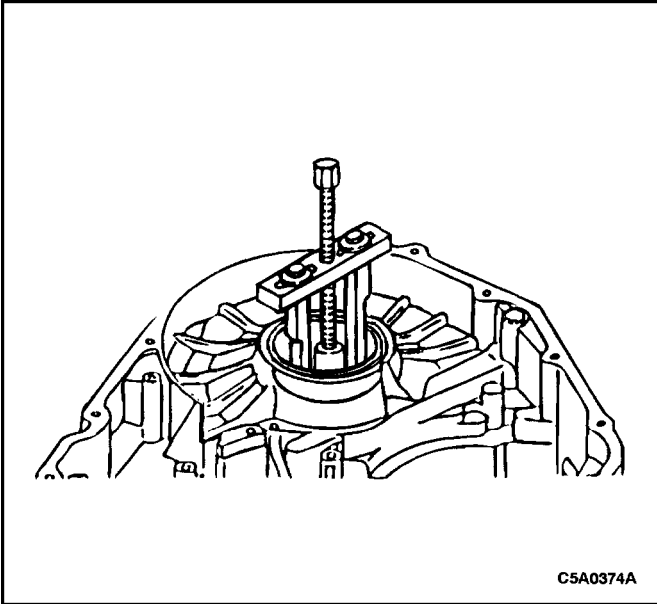
40. Remove the differential bearing lubrication apply tube.
- Pry up both ends of the tube with a large screwdriver.



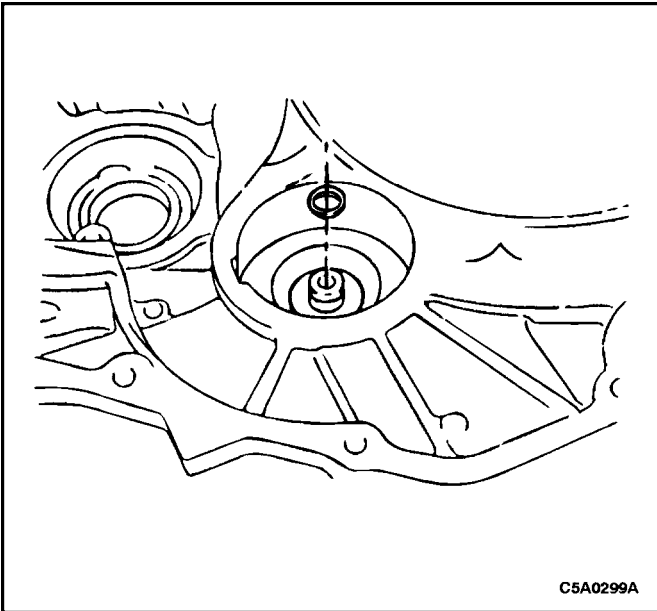
41. Remove the three bolts and the oil reserver plate.



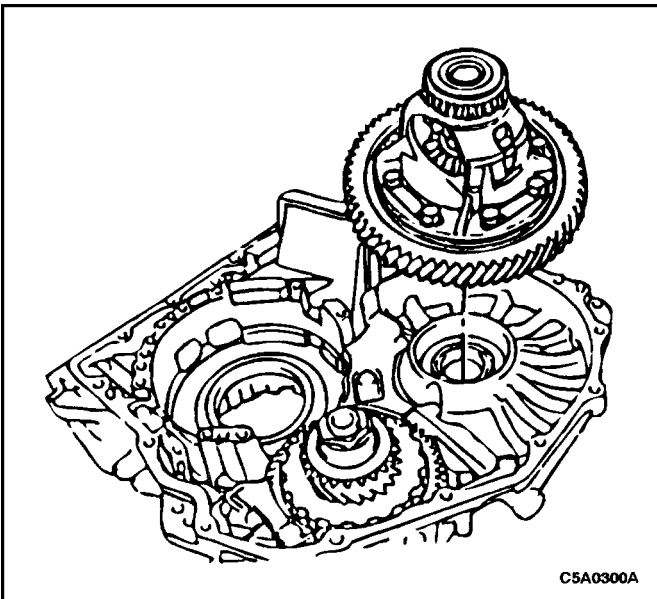
42. Remove the magnets from the oil reserver plate.



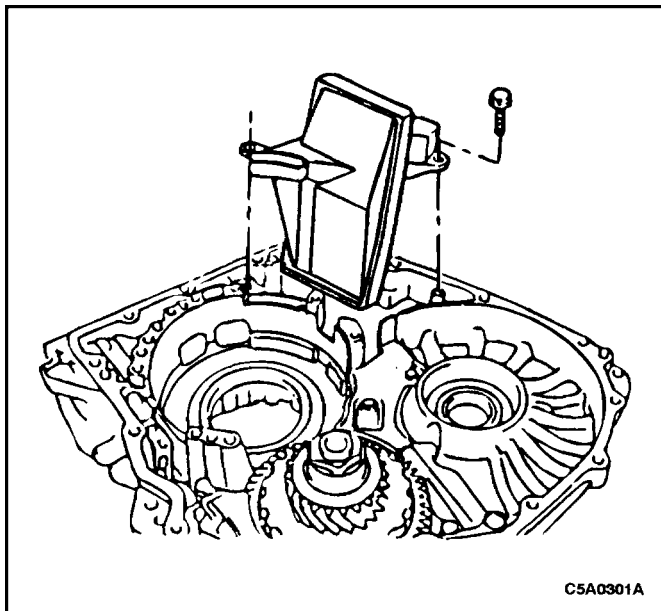
43. Using bearing puller KM-210-A and bearing puller adapter KM-709, remove the differential bearing from the transaxle housing.



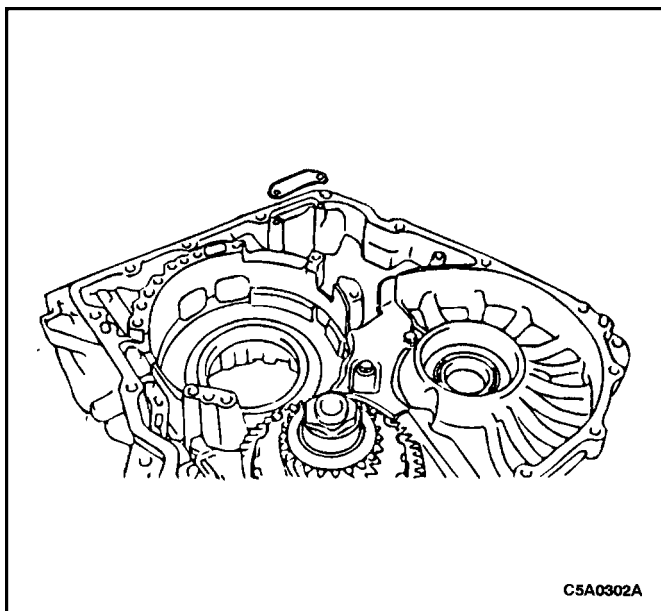
44. Remove the oil seal ring.



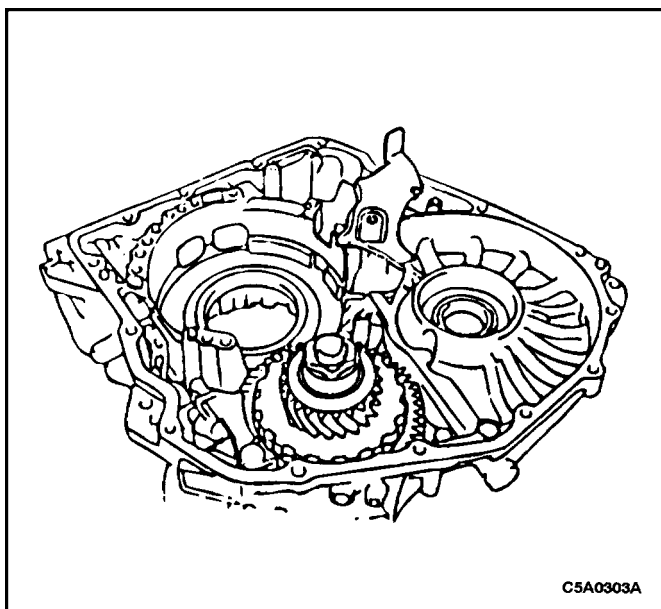
45. Remove the differential case.



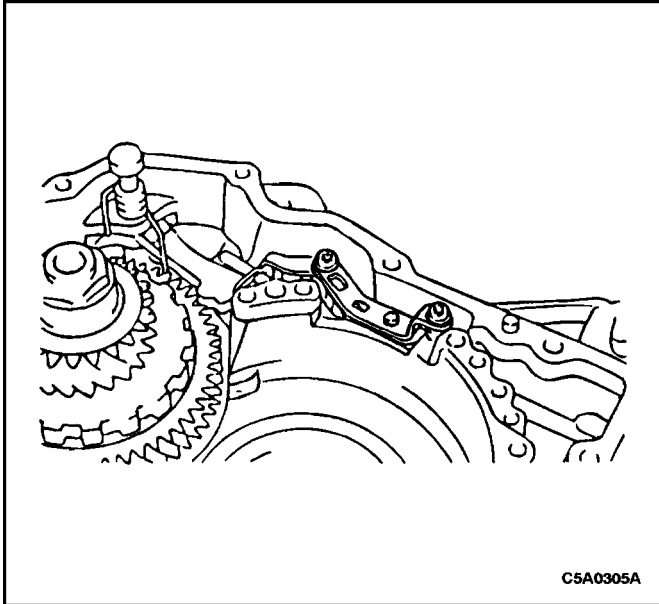
46. Remove the transaxle oil filter.



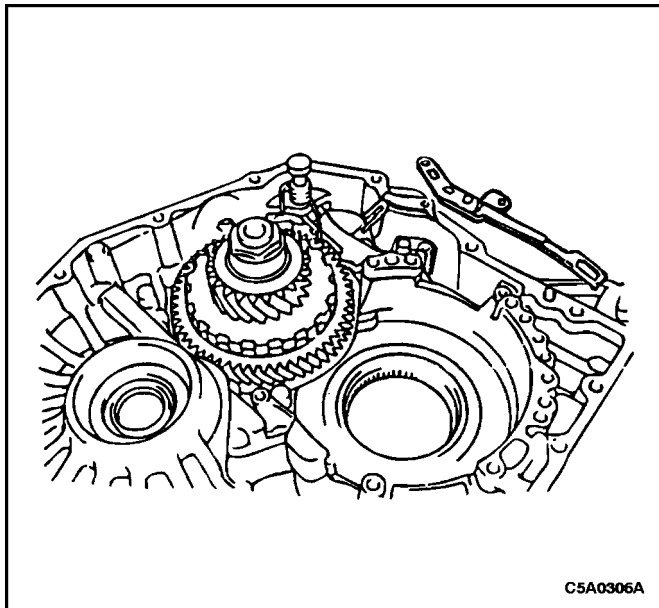
47. Remove the transaxle case plate.



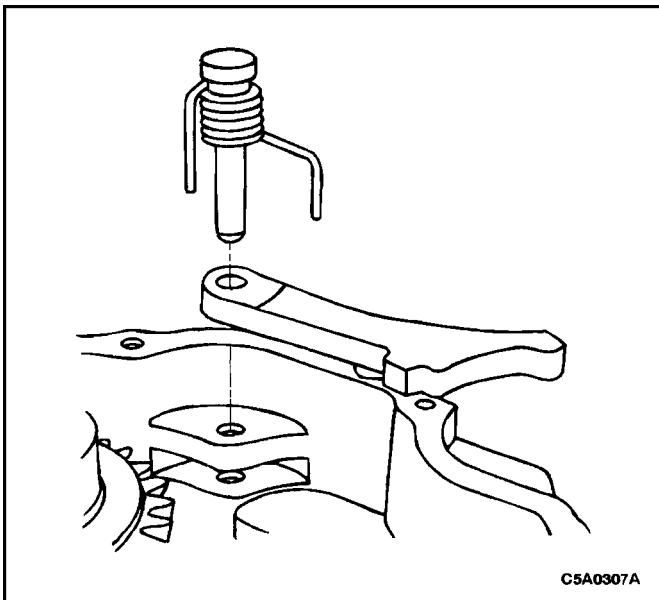
48. Remove the two bolts and the oil reserver plate.



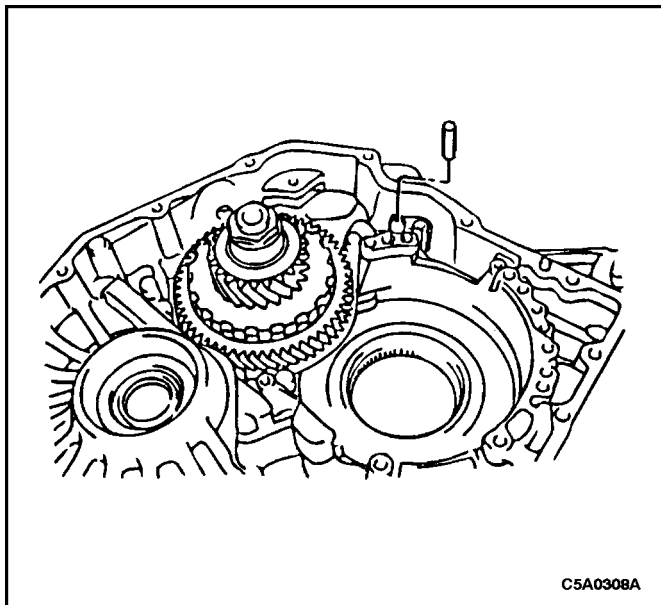
49. Remove the two cam plate bolts.



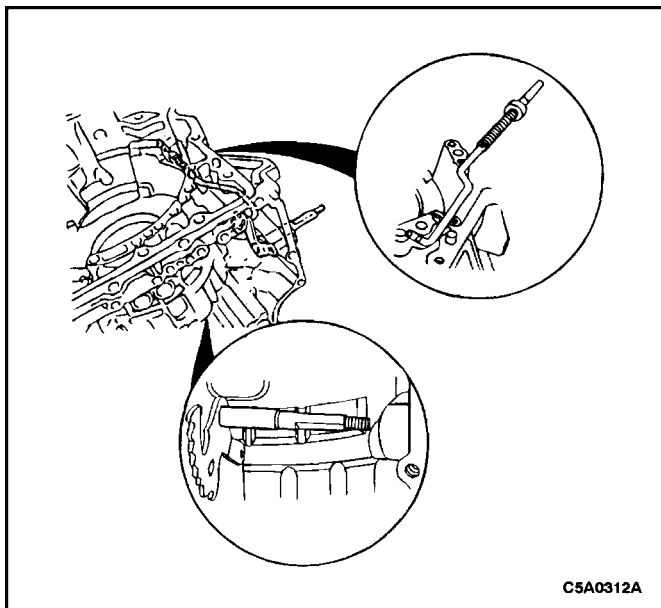
50. Remove the cam plate.



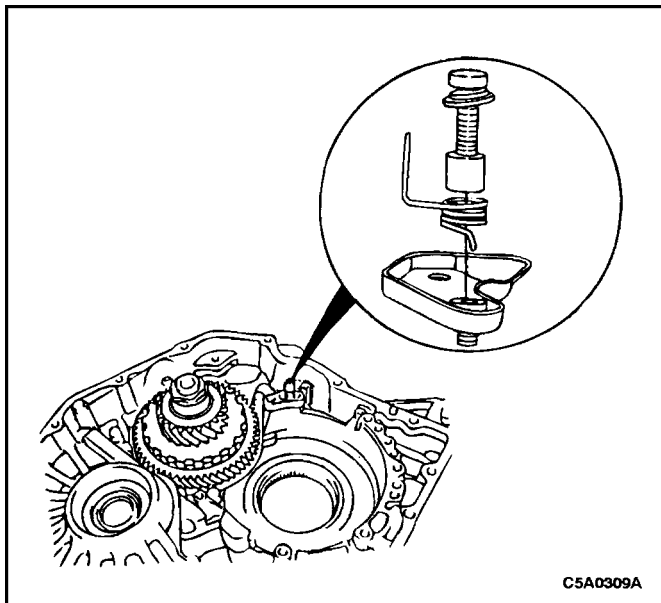
51. Remove the parking lock pawl shaft, torsion spring and the parking lock pawl.



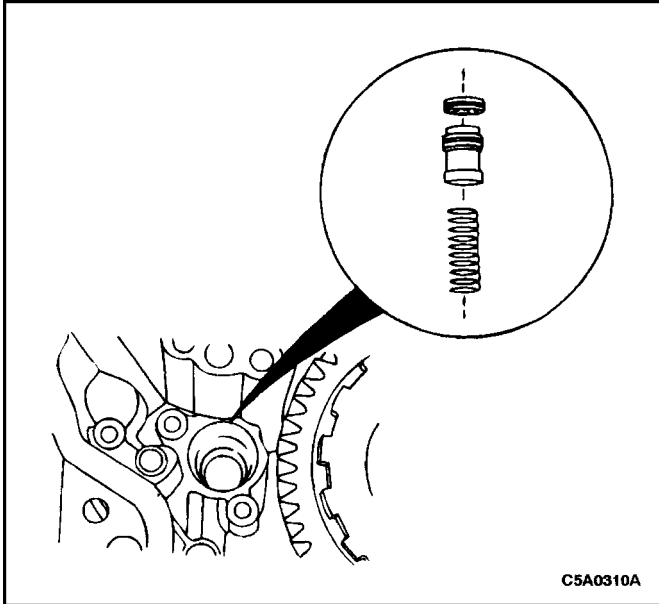
52. Remove the parking lock pin



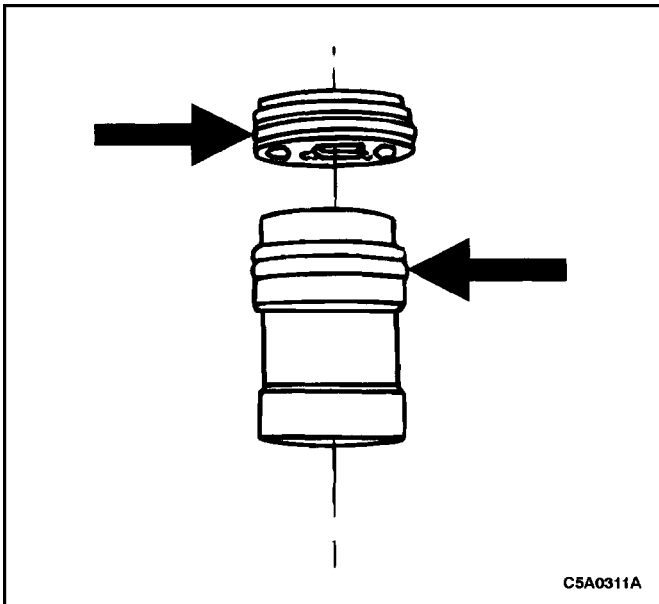
53. Disconnect the parking lock rod from the manual detent lever and remove them.



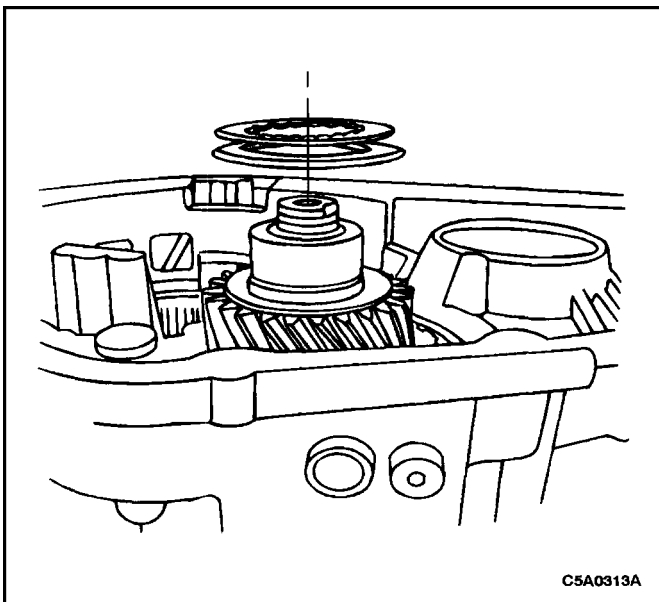
54. Remove the two bolts, the torsion spring, the spacer and the accumulator bracket.



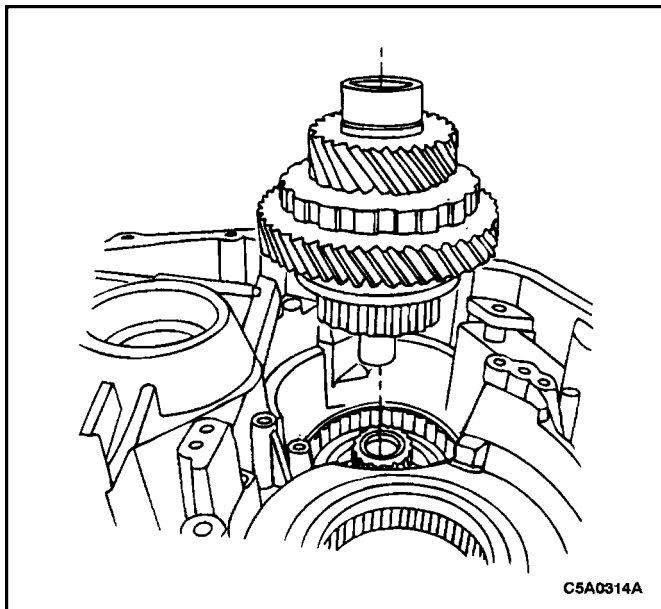
55. Remove the underdrive brake accumulator cover, piston and spring.



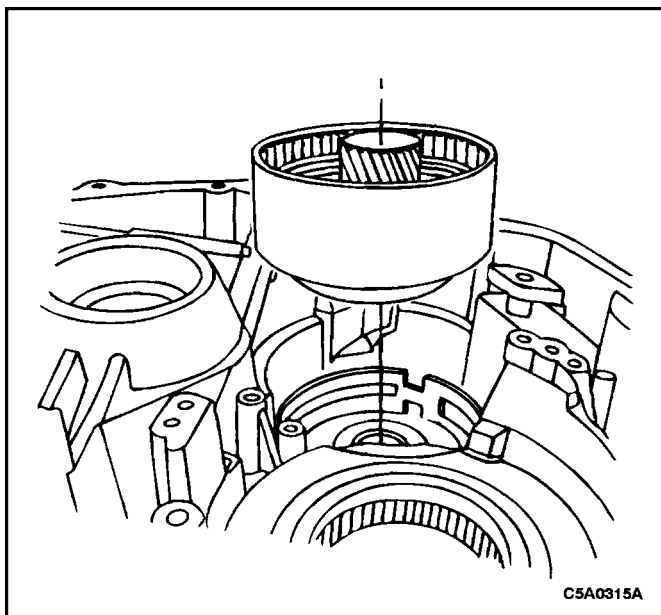
56. Remove and discard the O-rings from the accumulator cover and piston.



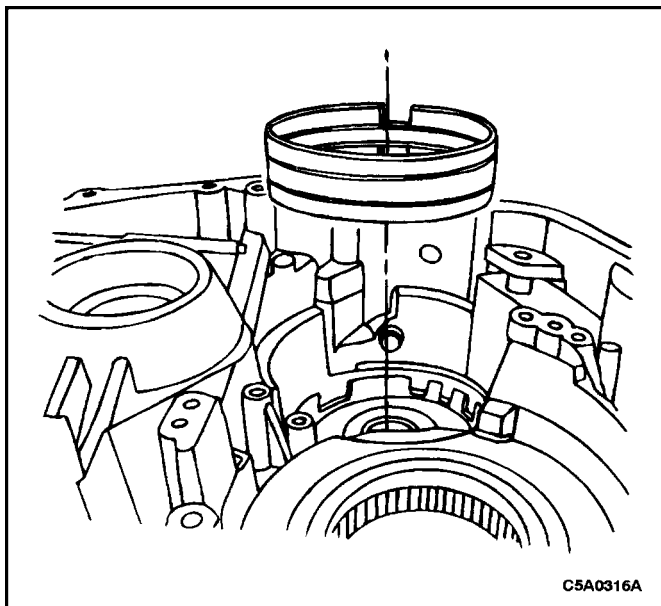
57. Remove the underdrive planetary gear thrust washer and bearing.



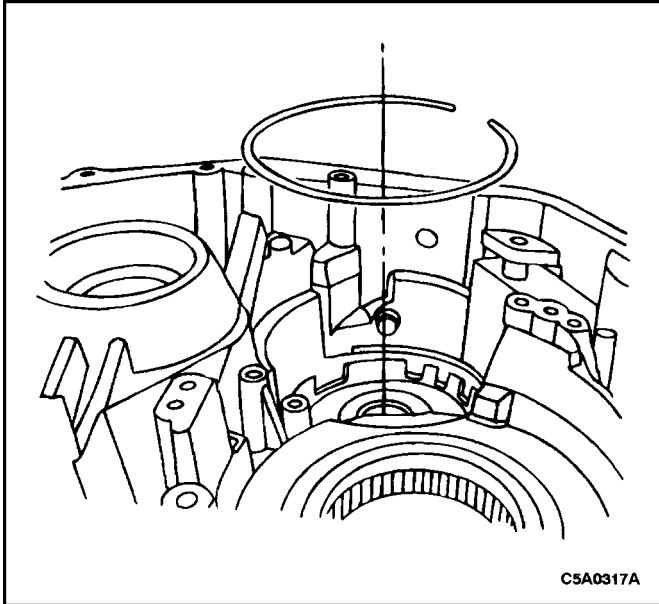
58. Remove the underdrive planetary gear.



59. Remove the underdrive clutch.

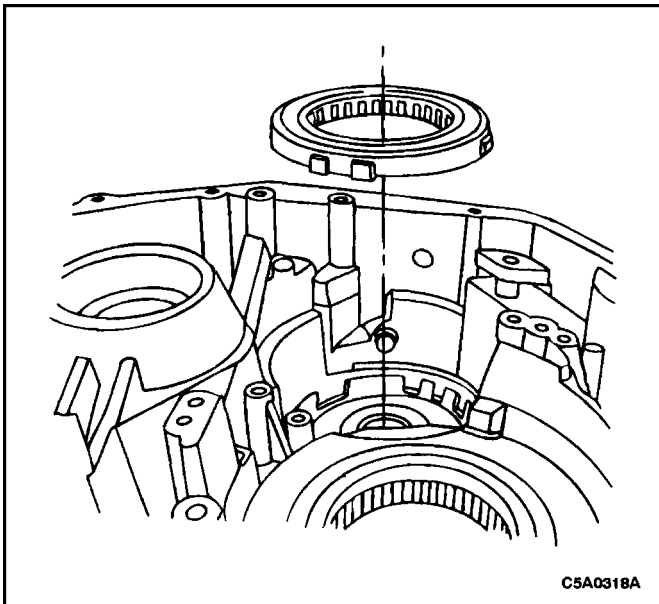


60. Remove the underdrive brake band.

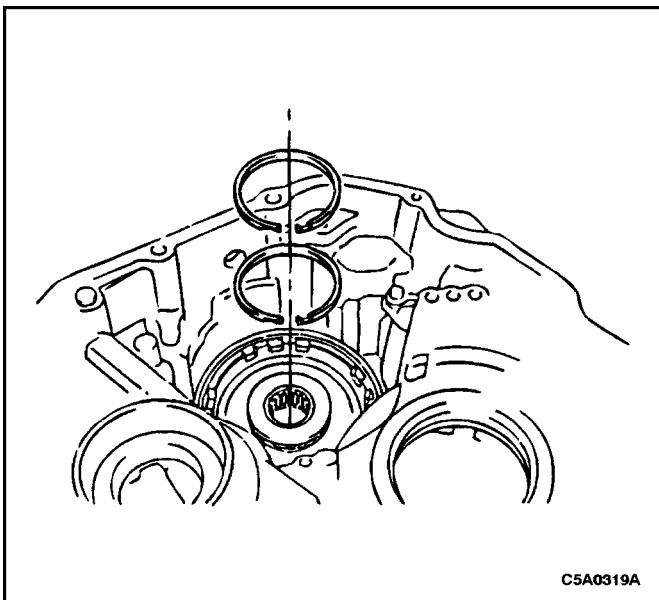


WARNING : USE CAUTION WHEN REMOVING SNAP RINGS OR PERSONAL INJURY MAY RESULT.

61. Remove the one-way clutch snap ring.

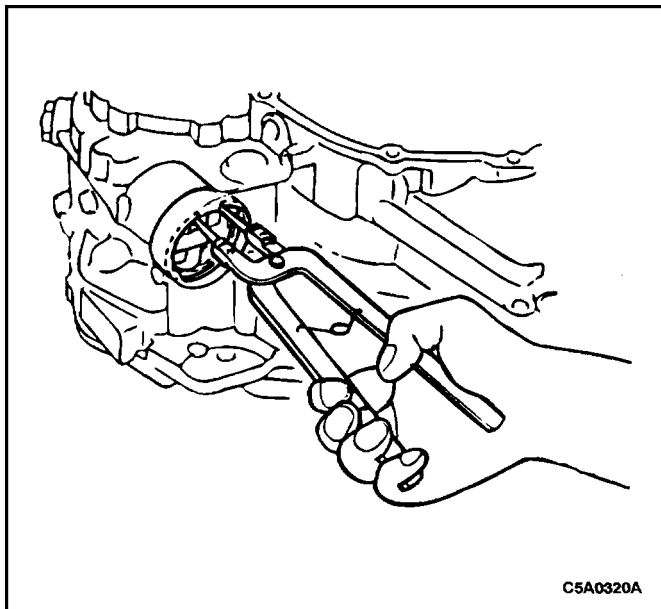


62. Remove the one-way clutch.

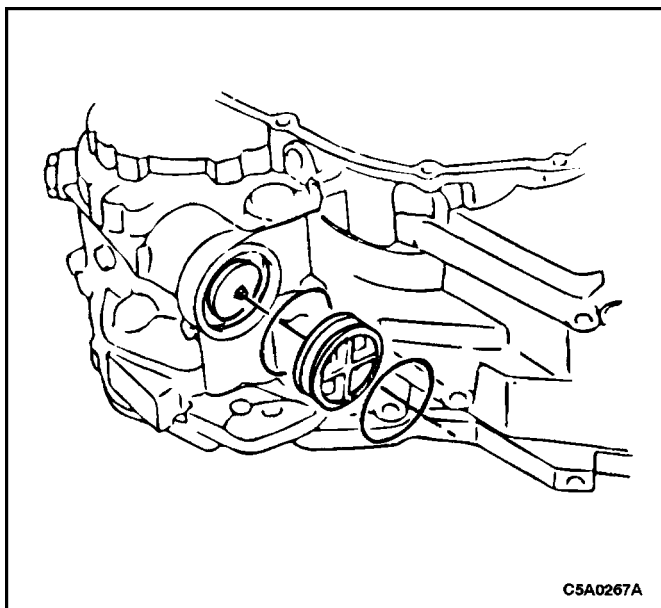


63. Remove the two seal rings.

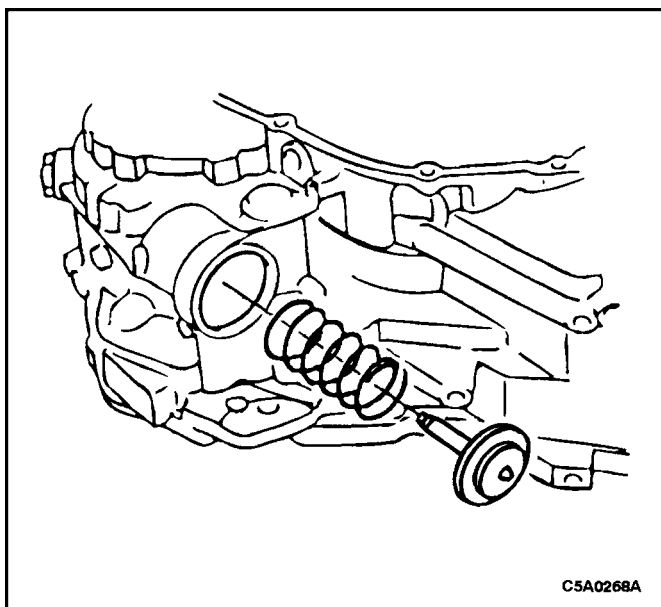
- Push one end of the seal ring into the groove and unhook both ends. Spread the rings apart and remove.



64. Remove the underdrive brake piston snap ring.



Notice : Remove and discard the cover O-rings.
65. Remove the underdrive brake piston cover.



66. Remove the underdrive brake piston and spring.