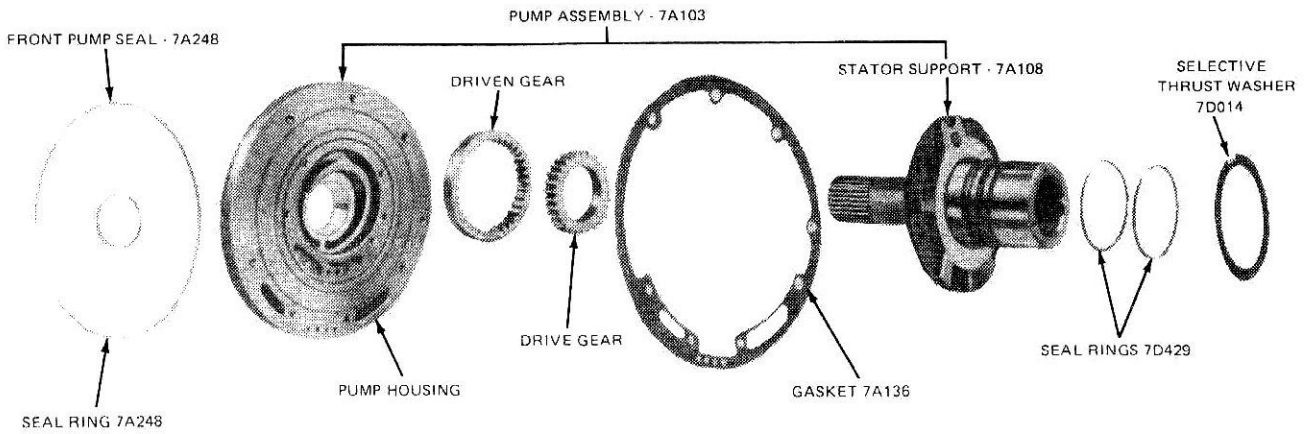




D1619-2C

FIG. 33 Front Pump Disassembled

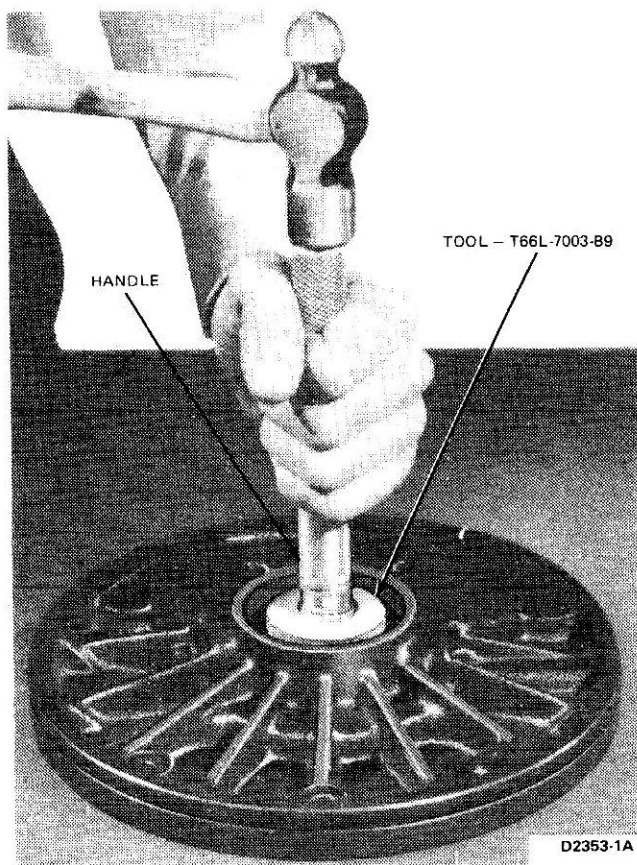


FIG. 34 Replacing Front Pump Housing Bushing

FORWARD CLUTCH

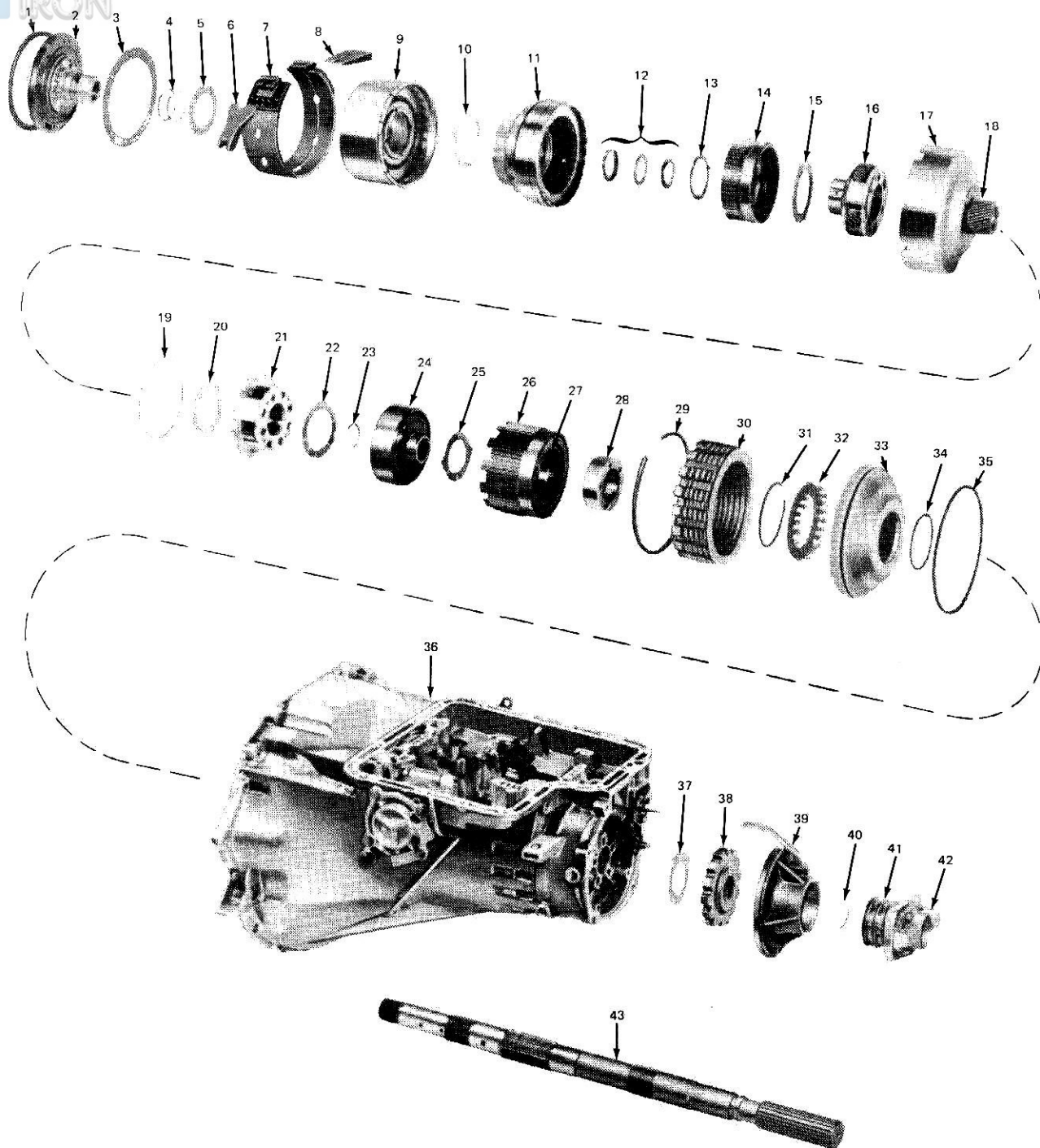
Disassembly

1. Remove the clutch pressure plate snap ring (Fig. 44).
2. Remove the rear pressure plate, the drive and driven plates and the forward pressure plate from the clutch hub (Fig. 45).
3. Remove the snap ring (Fig. 46) that secures the disc spring in the clutch cylinder. Remove the disc spring.
4. Apply air pressure to the clutch apply passage in the cylinder (Fig. 47) to remove the piston.

5. Remove the seal from the piston and the seal from the clutch hub (Fig. 45).

Assembly

1. Dip two new seals in transmission fluid. Install the smaller seal on the clutch hub and the lip seal on the clutch piston. The seal lip must face into the piston bore upon assembly.
2. Install the clutch piston and lip seal in the installation tool (T77L-77548-A) (Fig. 48).
3. Position the installation tool into the forward clutch cylinder, so that the bore of the tool is aligned with the piston bore in the cylinder. Press the piston into the cylinder until it bottoms in the bore. Remove the installation tool.
4. Make sure that the steel pressure ring is in the groove on the piston. **Position the disc spring in the cylinder with the dished face downward.** Install the spring as shown in Fig. 46. Secure the disc with the retaining snap ring.
5. Install the forward pressure plate with the flat side up and the beveled side downward. Dip the clutch plates in clean transmission fluid (Specification ESP-M2C138-CJX). Next, install the wave plate and a composition driven plate. Install the remaining plates in this sequence (Fig. 45). Refer to the Specification at end of this Part for the number of plates required. The last plate installed will be the rear pressure plate. Install the snap ring and make certain that it seats fully in the groove. When new composition clutch plates are used, soak the plates in automatic transmission fluid for 15 minutes before they are assembled.
6. With a feeler gauge, check the clearance between the snap ring and the pressure plate (Fig. 49). Downward pressure on the plate should be maintained when making this check. Refer to Specifications at end of this Part for the proper clearance.
7. If the clearance is not within specifications, selective snap rings are available in the following thicknesses: 0.056 to 0.060, 0.065 to 0.069, 0.074 to 0.078, 0.083 to 0.087 and 0.092 to 0.096, 0.110 to 0.14, 0.128 to 0.132 Inch. Insert the correct size snap ring and recheck the clearance.



1. FRONT PUMP SEAL RING - 7A248
2. FRONT PUMP - 7A103
3. GASKET - 7A136
4. SEAL
5. NUMBER 1 THRUST WASHER (SELECTIVE)
6. STRUT INTERMEDIATE BRAKE BAND - 7D029
7. INTERMEDIATE BRAKE BAND ASSEMBLY - 7D029
8. STRUT INTERMEDIATE BRAKE BAND ANCHOR - 7D430
9. REVERSE - HIGH CLUTCH ASSEMBLY
10. NUMBER 2 THRUST WASHER

11. FORWARD CLUTCH ASSEMBLY
12. NUMBER 3 THRUST WASHER
13. NUMBER 4 THRUST WASHER
14. FORWARD CLUTCH HUB ASSEMBLY - 7D392
15. NUMBER 5 THRUST WASHER
16. FORWARD PLANET ASSEMBLY - 7A398
17. INPUT SHELL - 7D064 AND SUN GEAR ASSEMBLY - 7D063
18. NUMBER 6 THRUST WASHER
19. SNAP RING
20. NUMBER 7 THRUST WASHER
21. REVERSE PLANET ASSEMBLY - 7D006

22. NUMBER 8 THRUST WASHER
23. REVERSE RING GEAR AND HUB RETAINING RING
24. REVERSE RING GEAR - 7A153 AND HUB - 7D164
25. NUMBER 9 THRUST WASHER
26. LOW-REVERSE CLUTCH HUB - 7B067
27. ONE-WAY CLUTCH - 7A089
28. ONE-WAY CLUTCH INNER RACE - 7D171
29. SNAP RING
30. LOW-REVERSE CLUTCH
31. SNAP RING

32. LOW-REVERSE PISTON RETURN SPRING AND RETAINER - 7D406
33. LOW-REVERSE PISTON - 7D402
34. INNER SEAL
35. OUTER SEAL
36. CASE - 7005
37. NUMBER 10 THRUST WASHER
38. PARKING GEAR - 7A233
39. GOVERNOR DISTRIBUTOR SLEEVE - 7C232
40. SNAP RING
41. GOVERNOR DISTRIBUTOR - 7D220
42. GOVERNOR - 7C063
43. OUTPUT SHAFT - 7060

FIG. 35 Drive Train Disassembled—Typical

INPUT SHELL AND SUN GEAR

Disassembly

1. Remove the external snap ring from the sun gear as shown in Fig. 50.

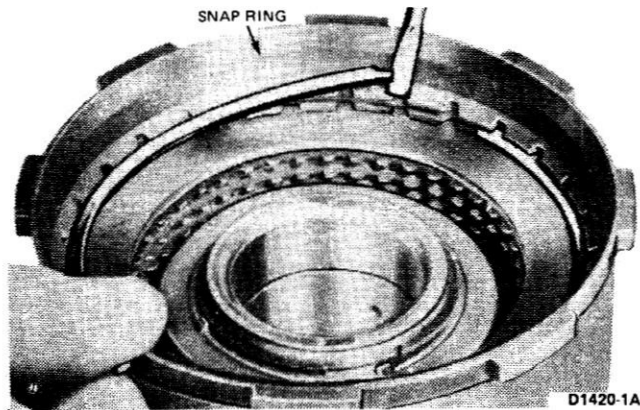


FIG. 36 Removing or Installing Reverse-High Clutch Pressure Plate Snap Ring

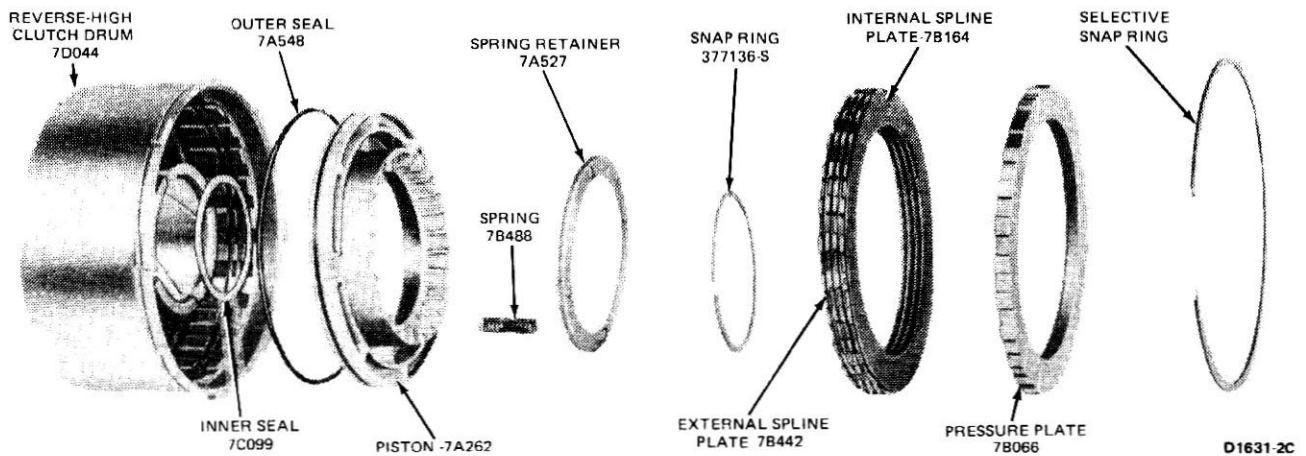


FIG. 37 Reverse-High Clutch Disassembled

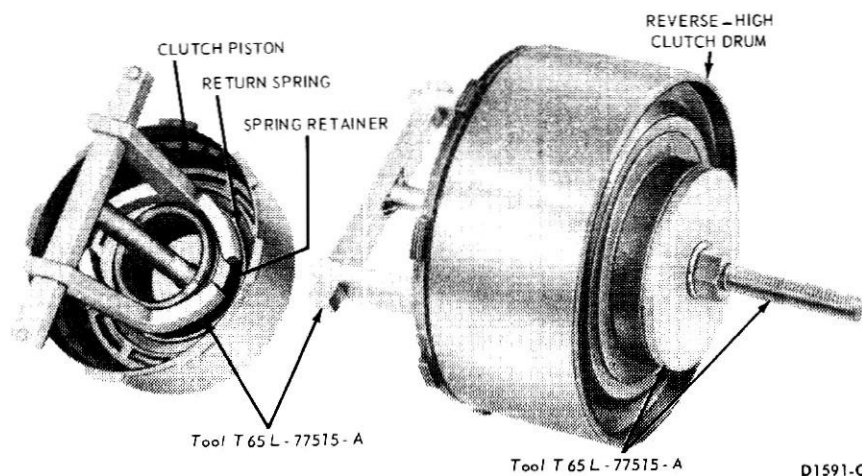


FIG. 38 Removing or Installing Reverse-High Clutch Piston Snap Ring

2. Remove the thrust washer from the input shell and sun gear (Fig. 51).
3. Working from inside the input shell remove the sun gear. Remove the internal snap ring from the gear.

Assembly

1. Install the forward snap ring on the forward end (short end) of the sun gear (Fig. 51). Working from inside the input shell, slide the sun gear and snap ring into place making sure that the longer end is at the rear (Fig. 51).
2. Place the No. 6 thrust washer on the sun gear and install the rear snap ring.

OUTPUT SHAFT HUB AND RING GEAR

Disassembly

1. Remove the hub snap ring (Fig. 52) from the ring gear.
2. Lift the hub from the ring gear.

Assembly

1. Position the hub in the ring gear.