



# Technical Service Information

## FORD 5R110W NEW DESIGN LOW REVERSE SNAP RING

**CHANGE:** Sometime in the 2005 model year Ford Motor Company redesigned the Low/Reverse Clutch retaining snap ring for the Diesel and Gas applications replacing the two previous designs . There was a Ford Customer Satisfaction program, 05B27 Supplement #1 that ended in September of 2006 that would cover the replacement of this snap ring and or transmission case under warranty regardless of miles, on certain 2005 models. This new snap ring is a mandatory replacement and will back service all models.

**REASON:** The reason for this replacement was, "When the affected vehicles are used for snow plowing, it is common to shift between forward and reverse repeatedly, and at times, rapidly. Under this condition, the snap ring that retains the low/reverse clutch in the 5R110 Torqshift transmission may rotate out of position and become partially unseated from the transmission case splines, leading to either partial or complete loss of transmission reverse gear function. This program is being conducted to change the snap ring to a revised design to avoid this concern."

**PARTS AFFECTED:**

Low reverse snap ring, and it's assembly in to the case. The new snap ring has tabs, as shown in Figure 1, that are to be located at the 12 and 1 o'clock position in the case as shown in Figure 2. Refer to Figure 3 for a breakdown of the Low Reverse Clutch assembly.

**SERVICE INFORMATION:**

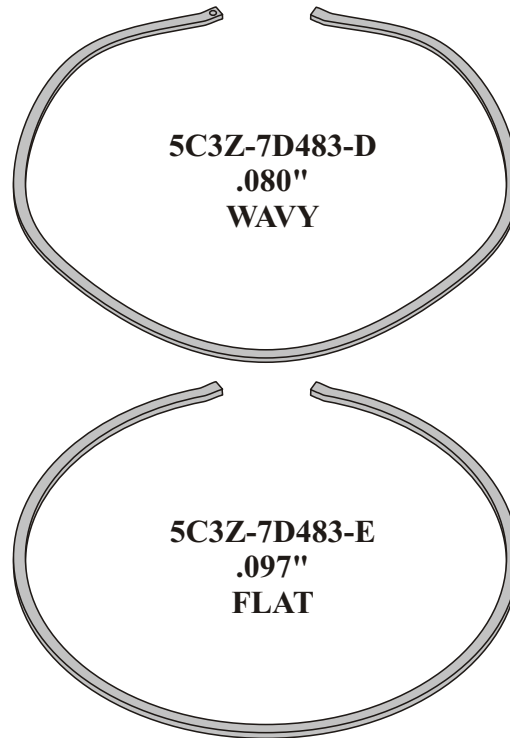
LOW REVERSE SNAP RING (Diesel).....5C3Z-7D483-E  
LOW REVERSE SNAP RING (Gas).....5C3Z-7D483-D

*There is a service pack available from Ford Motor Company , that was one of the service options under the Customer Satisfaction Program mentioned above, that includes the new snap ring, pump to case gasket, solenoid body to case gasket, pump seal, sump filter and front pump bolts. At this time the kit is less expensive than the snap ring alone. The part numbers for these kits are as follows:*

LOW REVERSE SNAP RING SERVICE KIT (Diesel).....5C3Z-7D483-W  
LOW REVERSE SNAP RING SERVICE KIT (Gas).....5C3Z-7D483-Y

**SPECIAL NOTE:** The service packs above were available at the time of printing, but may be discontinued as time goes. Consult your local Ford dealer for verification.

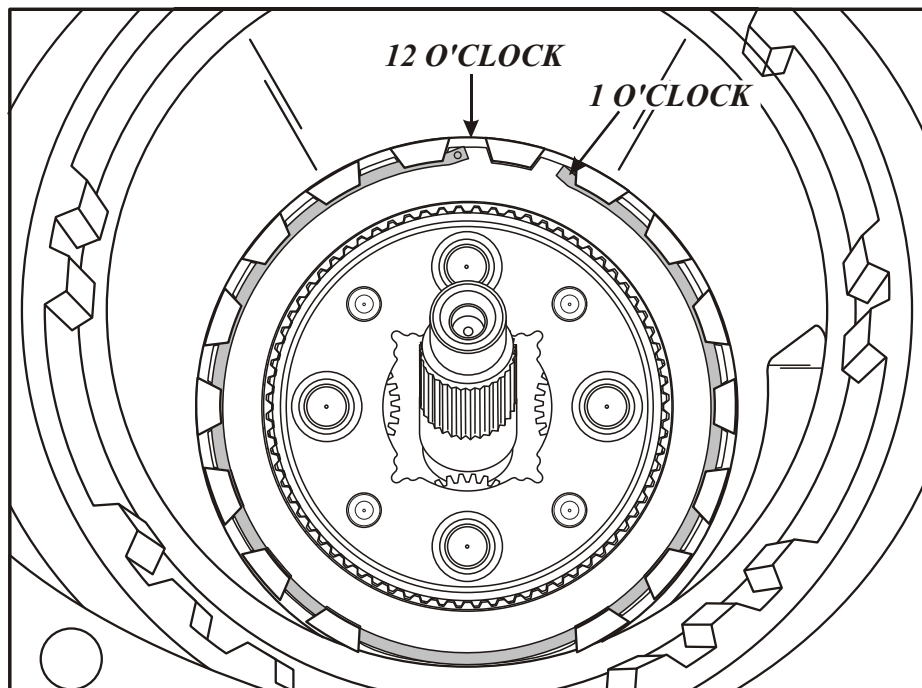
## NEW DESIGN LOW REVERSE SNAP RING



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Figure 1

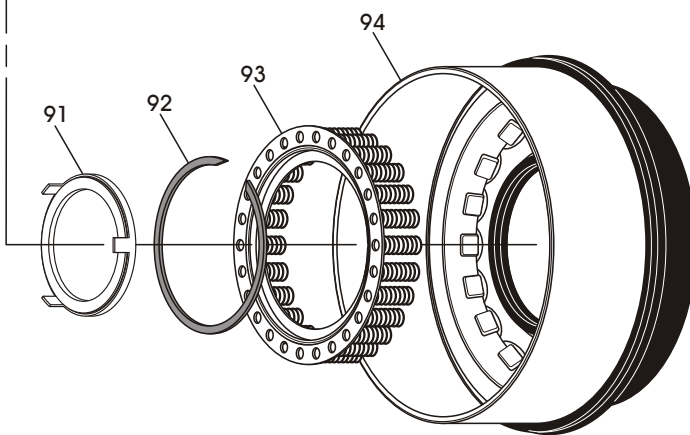
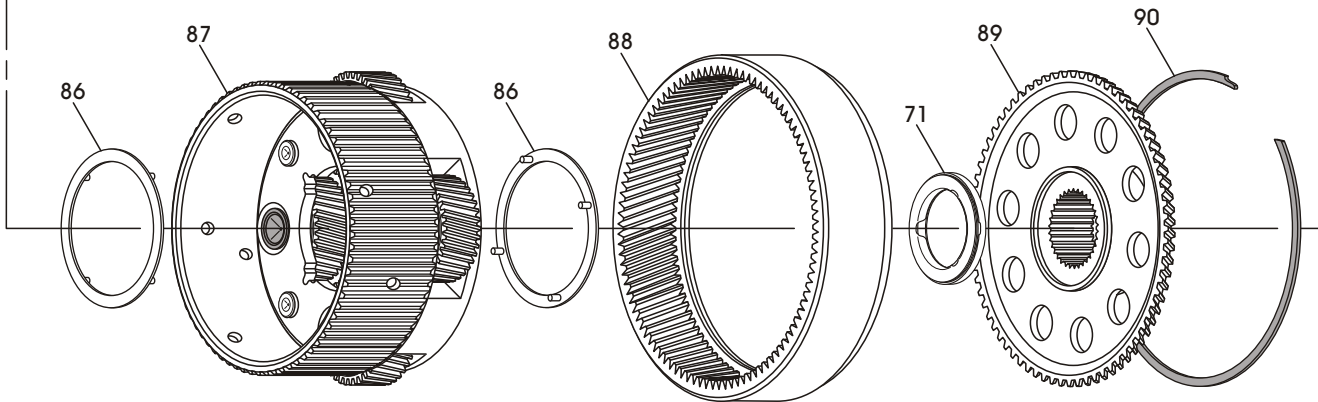
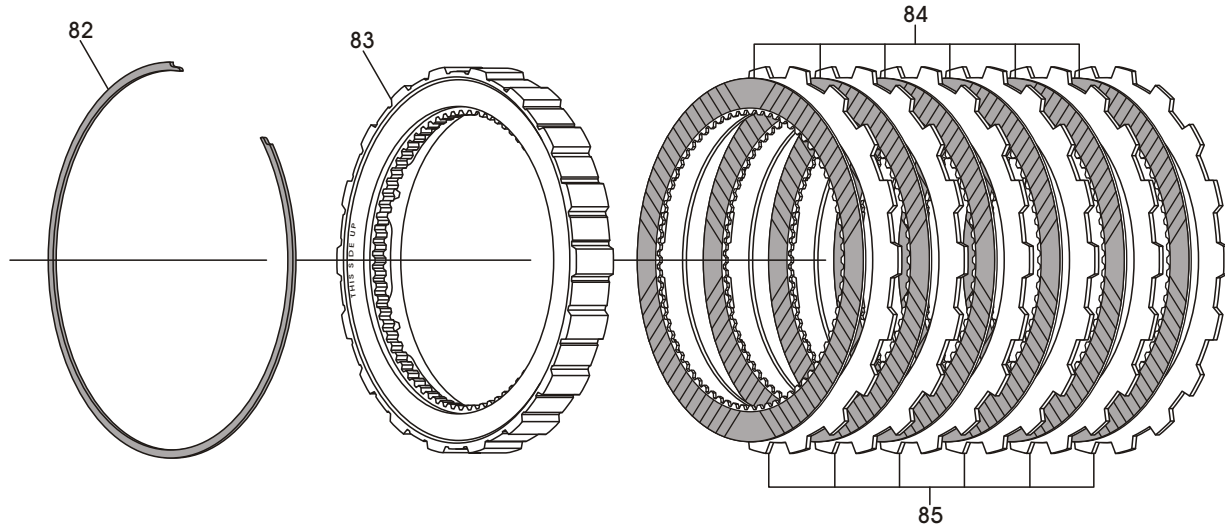
## LOW REVERSE SNAP RING INSTALLATION



*Verify the left end of the snap ring is in the 12 o'clock position in the case  
and the right end of the snap ring is in the 1 o'clock position*

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## LOW/REVERSE CLUTCH PARTS EXPLODED VIEW



- 71 NUMBER 15 THRUST BEARING ASSEMBLY
- 82 LOW DIODE RETAINING SNAP RING
- 83 LOW DIODE ASSEMBLY
- 84 REVERSE CLUTCH FRICTION PLATES (6)
- 85 REVERSE CLUTCH STEEL PLATES (6)
- 86 NUMBER 13 AND 14 REAR CARRIER THRUST WASHERS
- 87 REAR PLANETARY CARRIER ASSEMBLY
- 88 REAR PLANETARY CARRIER INTERNAL RING GEAR
- 89 REAR PLANETARY CARRIER INTERNAL RING GEAR HUB
- 90 REAR PLANETARY CARRIER RING GEAR HUB SNAP RING
- 91 NUMBER 16 THRUST BEARING ASSEMBLY
- 92 LOW/REVERSE CLUTCH RETURN SPRING SNAP RING
- 93 LOW/REVERSE CLUTCH RETURN SPRING ASSEMBLY
- 94 LOW/REVERSE CLUTCH PISTON

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Figure 3