



Technical Service Information

FORD E4OD LARGER DESIGN LOW ROLLER CLUTCH FOR 1997 MODELS

CHANGE: Beginning at the start of production for 1997 models, *some* models of the E4OD transmission were built with a new design low roller clutch that is larger, and a new design reverse clutch assembly.

REASON: Much improved durability and reliability.

PARTS AFFECTED:

- (1) LOW ROLLER CLUTCH ASSEMBLY - New design is larger in diameter, has 17 rollers instead of the previous 16 rollers, and the plastic is "Tan" in color instead of black for easy identification. Refer to Figure 1.
- (2) LOW ROLLER CLUTCH INNER RACE - New design is 3.385" in diameter instead of the previous 3.189" diameter, to accommodate the new low roller clutch. There is no other means of identification on the inner race other than measuring the diameter. Refer to Figure 1.
- (3) REVERSE CLUTCH HUB - New design has a larger diameter "Cam" installed into the rear of reverse clutch hub to accommodate the larger low roller clutch, and the shell is now stamped, and has wider grooves for the reverse clutch teeth. Refer to Figure 2.
- (4) REVERSE CLUTCH FRICTION PLATES - New design friction plates are manufactured with wider teeth to fit the new design reverse clutch hub. Refer to Figure 2.
- (5) REAR PLANETARY CARRIER - New design level has narrow teeth on the outside diameter instead of the previous wide teeth, to accommodate the new design reverse clutch hub. Refer to Figures 3 and 4.

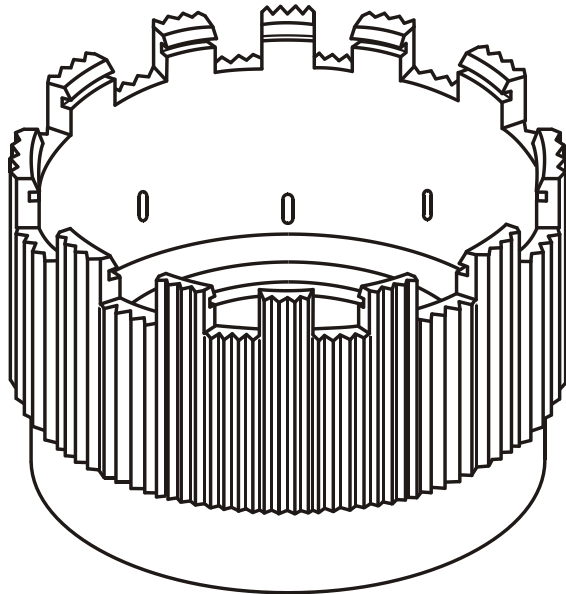
INTERCHANGEABILITY:

The new design parts will retro-fit back to all previous models, as long as all parts listed above are used as a package. The low roller clutch assembly *must* be installed into the back side of the reverse clutch hub regardless of which design level you are using, as shown in Figure 5.

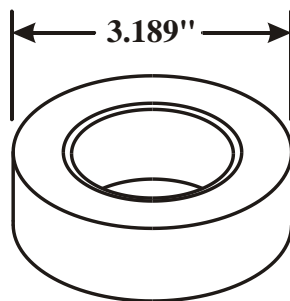
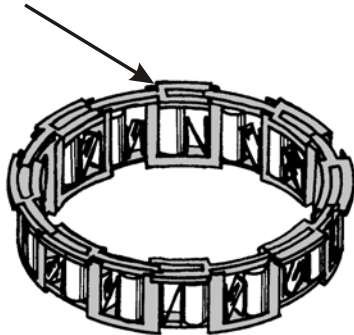
SERVICE INFORMATION:

Part Name	Previous Design	New Design
Reverse Clutch Hub Assembly	F3TZ-7B067-A	F7TZ-7B067-AC
Low Roller Clutch Assembly	F3TZ-7A089-A	F7TZ-7A089-AA
Low Roller Clutch Inner Race	E9TZ-7D171-AA	F7TZ-7D171-AA
Reverse Planetary Carrier (4 Pinion)	F2TZ-7D006-A	F7TZ-7D006-BA
Reverse Clutch Friction Plates	D6AZ-7B164-A	F7TZ-7B164-AA

1989-1996 DESIGN LEVEL REVERSE CLUTCH HUB, LOW ROLLER CLUTCH, AND INNER RACE

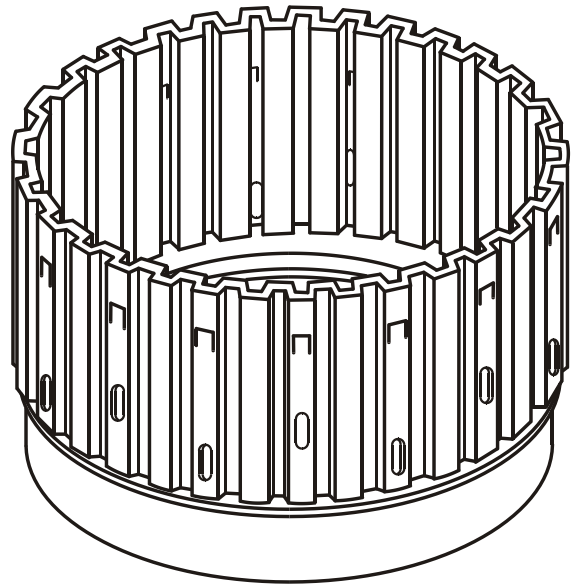


"BLACK" PLASTIC CAGE
16 ROLLERS

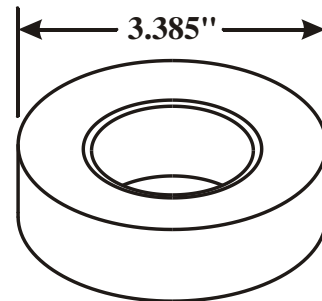
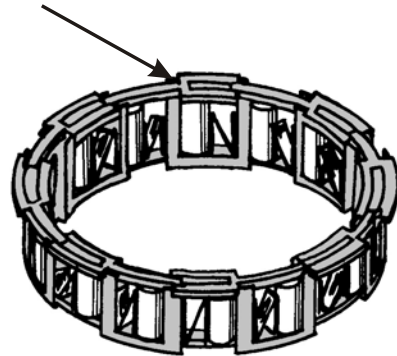


LOW ROLLER
INNER RACE

1997-UP DESIGN LEVEL REVERSE CLUTCH HUB, LOW ROLLER CLUTCH, AND INNER RACE



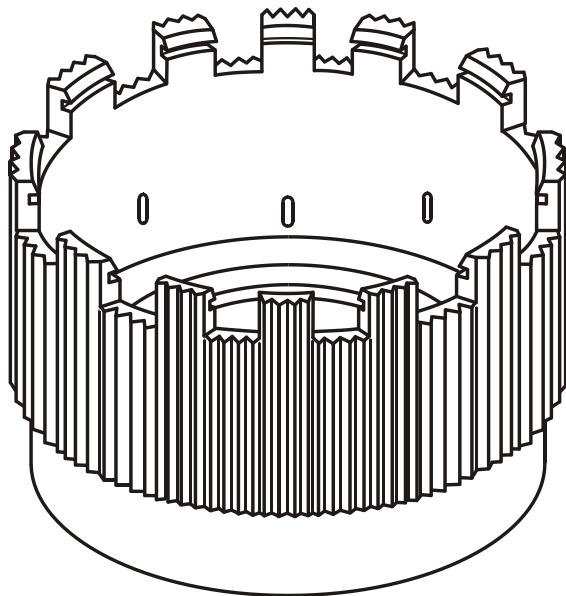
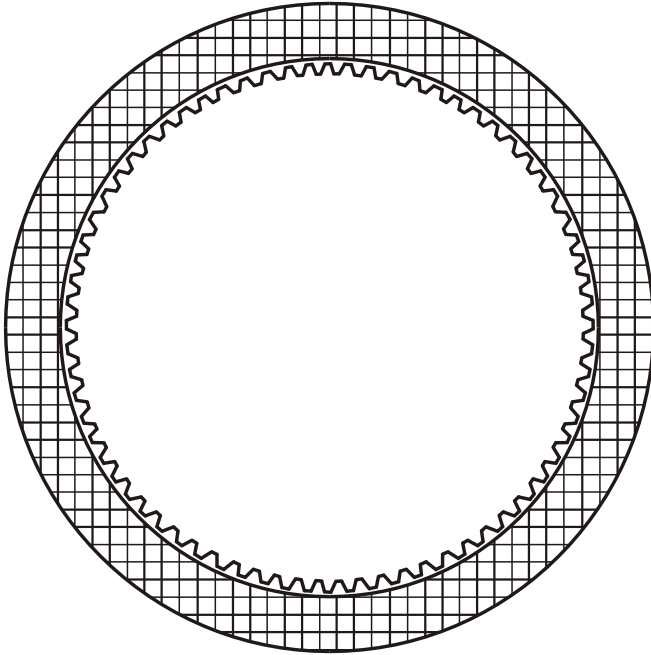
"TAN" PLASTIC CAGE
17 ROLLERS



LOW ROLLER
INNER RACE

Figure 1

**1989-1996 DESIGN LEVEL
LOW/REVERSE CLUTCH PLATE
AND REVERSE CLUTCH HUB**



**1997-UP DESIGN LEVEL
LOW/REVERSE CLUTCH PLATE
AND REVERSE CLUTCH HUB**

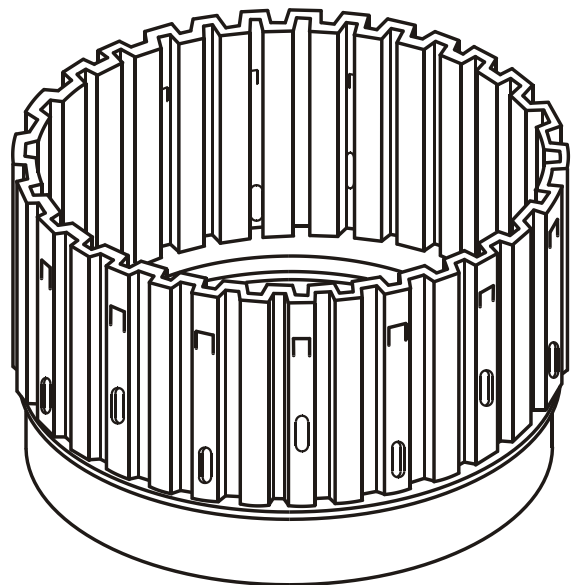
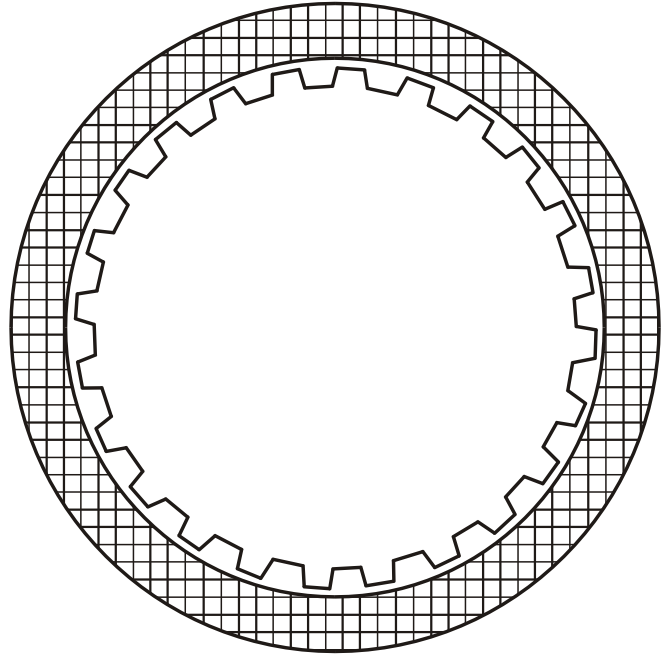


Figure 2

**1989-1996 DESIGN LEVEL
REVERSE CLUTCH HUB AND REAR PLANET ASSEMBLY**

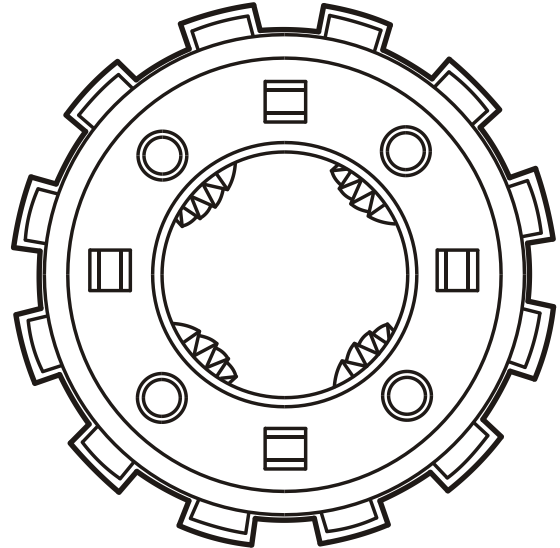
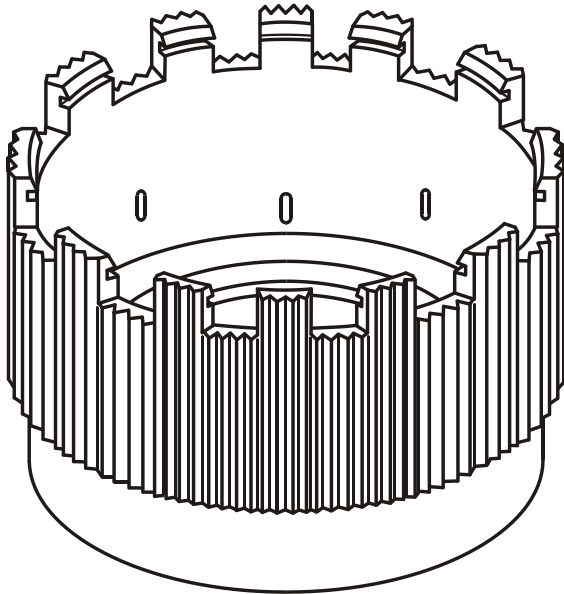


Figure 3

**1997-UP DESIGN LEVEL
REVERSE CLUTCH HUB AND REAR PLANET ASSEMBLY**

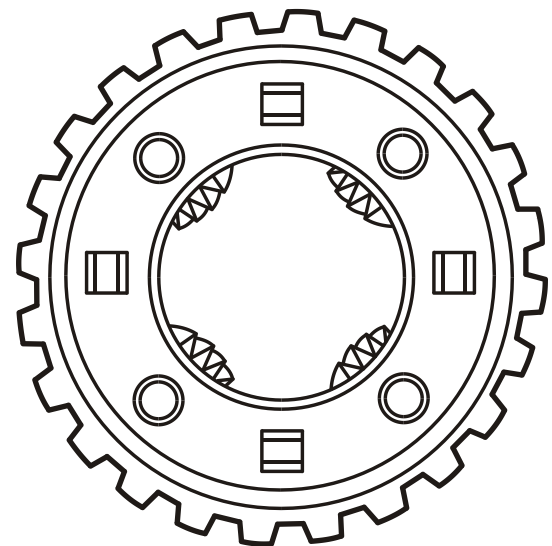
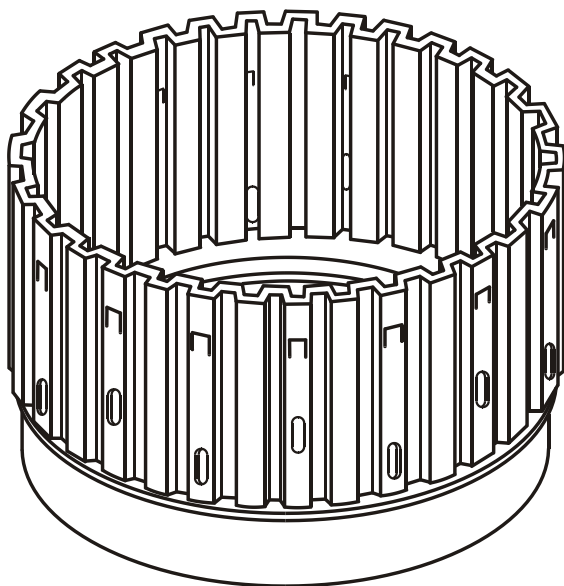
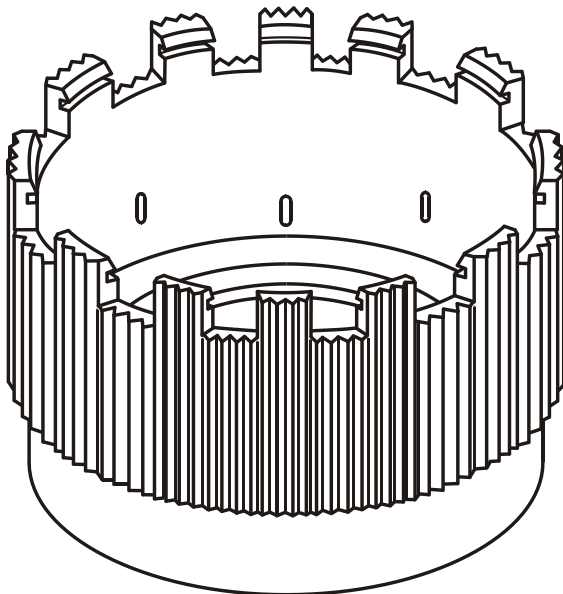


Figure 4

E4OD PLASTIC LOW ROLLER CLUTCH ASSEMBLY

"INCORRECTLY" INSTALLED

NOTE TABS ON
TOP OUTER EDGE

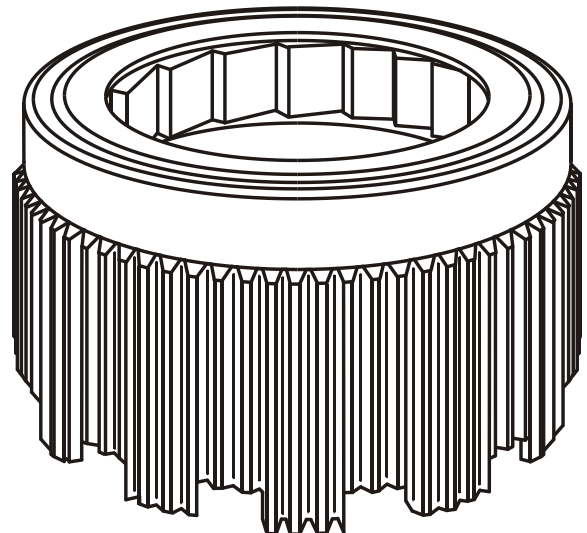
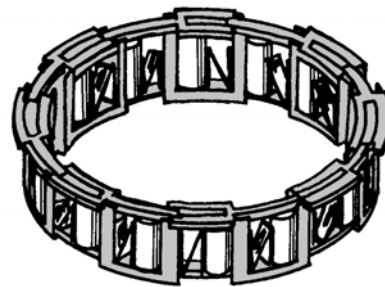


CAUTION

IF THE ROLLER CLUTCH IS INSTALLED IN THIS DIRECTION, THE REVERSE HUB WILL FREEWHEEL IN BOTH DIRECTIONS.

"CORRECT" INSTALLATION

NOTE TABS ON
TOP OUTER EDGE



DISCARD BOTH SNAP RINGS. THEY ARE NOT USED WITH THE PLASTIC ROLLER CLUTCH

Figure 5