



## **FORD 5R110W *Torqshift*** **NEW REAR PLANETARY AND INTERNAL RING GEAR**

**CHANGE:** The rear planetary carrier assembly and rear ring gear hub have been changed for the 2005 production year because of pinion shaft movement in the carrier. Exploded view of all low/reverse clutch parts is provided for you in Figure 1.

**REASON:** Much improved durability and reliability.

### **PARTS AFFECTED:**

- (1) **REAR PLANETARY CARRIER ASSEMBLY** - New carrier has a staking process change for the pinion pins to prevent them from "walking" out of the carrier assembly. There have also been some dimensional changes which helps us for identification. The overall height of the carrier has been reduced by .125" (1/8"), as shown in Figure 2. The splines for the low/reverse frictions have also been shortened by .125" (1/8"), as shown in Figure 2.
- (2) **REAR RING GEAR HUB** - New design ring gear hub has the holes removed from the center, as shown in Figure 3.

### **INTERCHANGEABILITY:**

*The new design planetary carrier "Will" retro-fit back on all model years, and is required on any rebuild that has the previous design parts.*

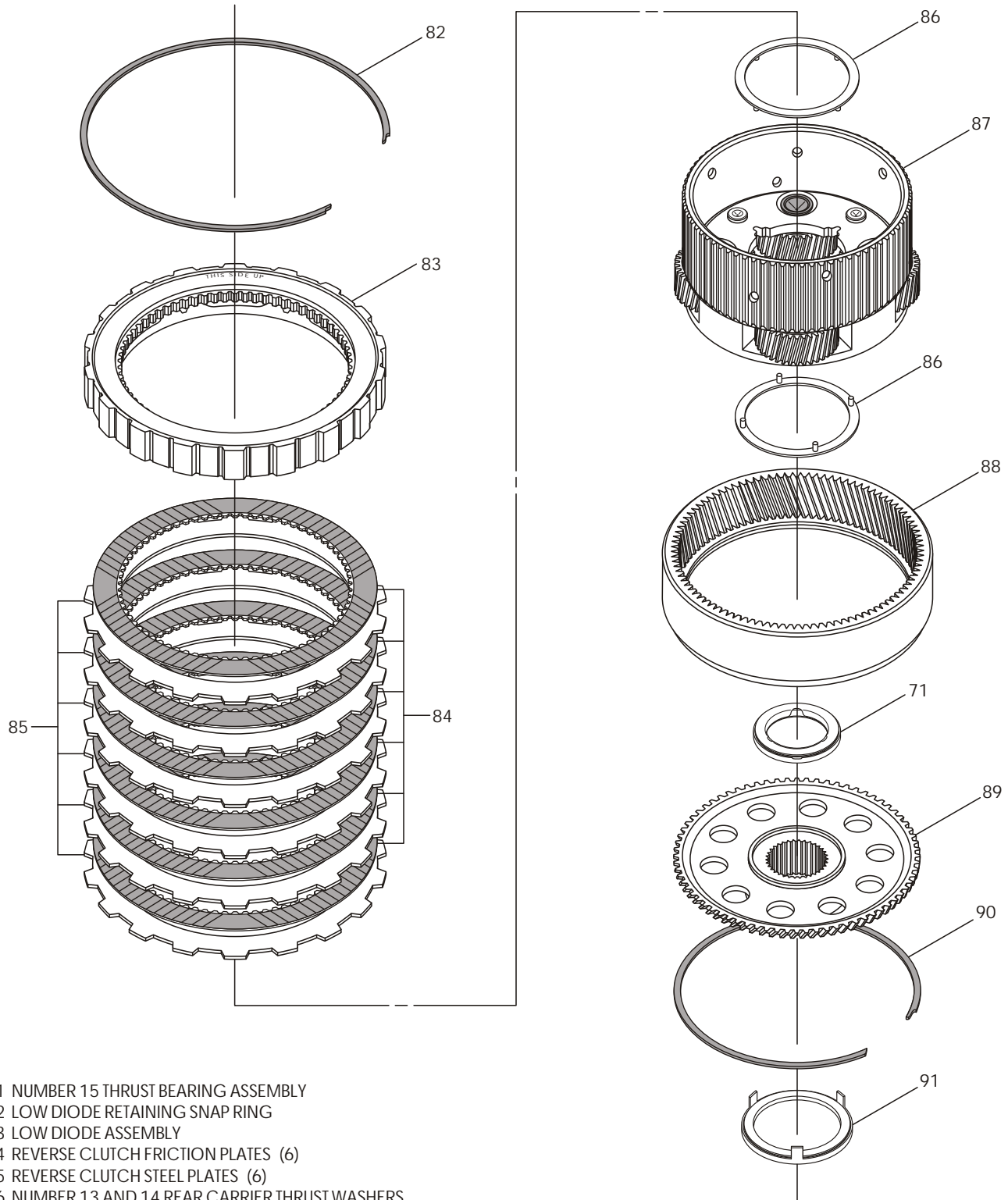
*The new design ring gear hub will also retro-fit back on all model years, but can be used as long as it is not damaged. Reuse only with the new design carrier.*

*Note: "Do Not" reuse any previous design rear planetary carriers.*

### **SERVICE INFORMATION:**

Rear Planetary Carrier Assembly, (2nd Design) .....	5C3Z-7D006-AB
Rear Internal Ring Gear Hub, (2nd Design) .....	3C3Z-7D164-AA
Rear Planetary Carrier Thrust Washer, (2 Required) .....	3C3Z-7A166-A

## LOW/REVERSE CLUTCH PARTS EXPLODED VIEW



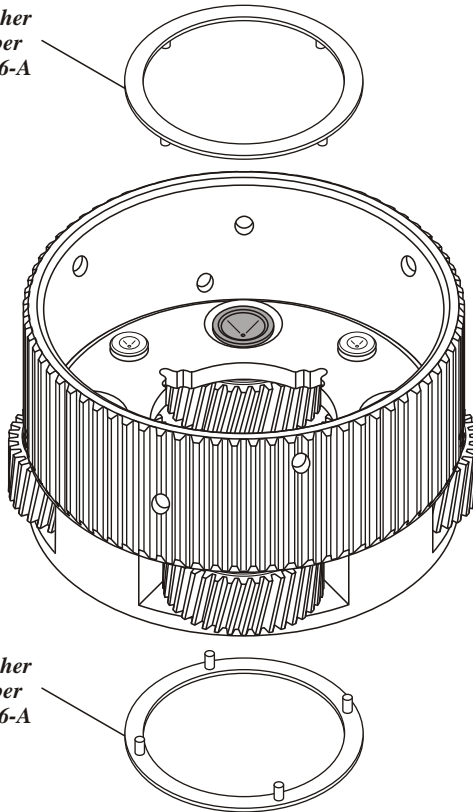
- 71 NUMBER 15 THRUST BEARING ASSEMBLY
- 82 LOW DIODE RETAINING SNAP RING
- 83 LOW DIODE ASSEMBLY
- 84 REVERSE CLUTCH FRICTION PLATES (6)
- 85 REVERSE CLUTCH STEEL PLATES (6)
- 86 NUMBER 13 AND 14 REAR CARRIER THRUST WASHERS
- 87 REAR PLANETARY CARRIER ASSEMBLY
- 88 REAR PLANETARY CARRIER INTERNAL RING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

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Figure 1

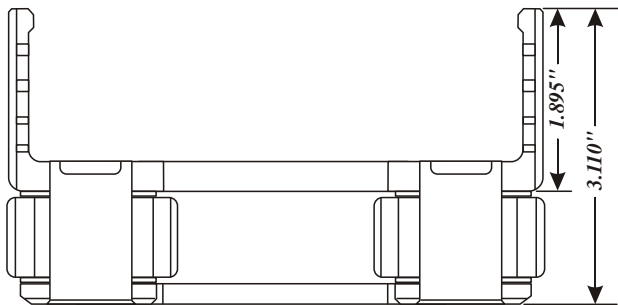
## 5R110W REAR PLANETARY CARRIER

Thrust Washer  
Part Number  
3C3Z-7A166-A



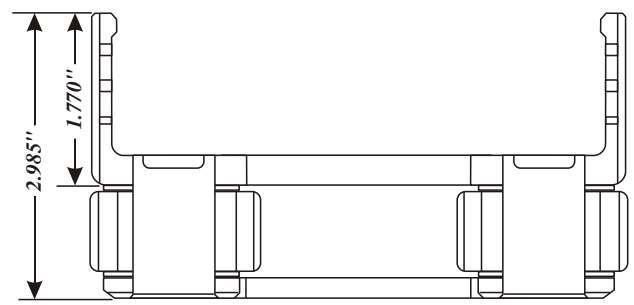
Thrust Washer  
Part Number  
3C3Z-7A166-A

### "1ST DESIGN" REAR PLANETARY CARRIER



**"DO NOT USE"**

### "2ND DESIGN" REAR PLANETARY CARRIER

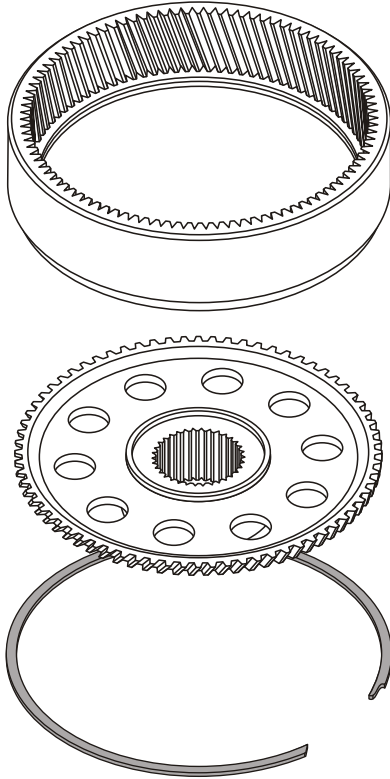


**PART NUMBER  
5C3Z-7D006-AB**

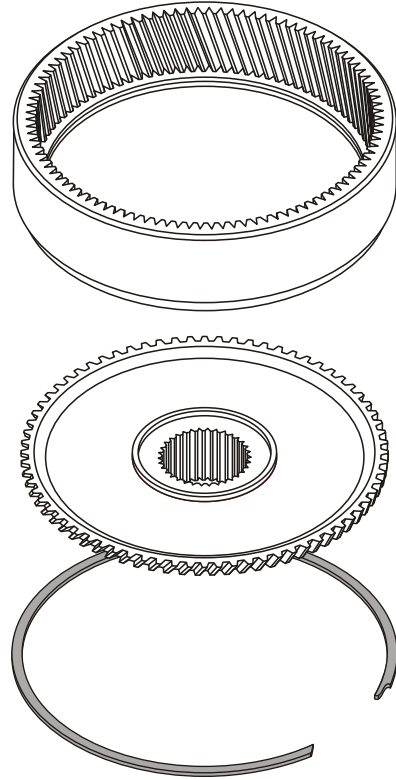
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Figure 2

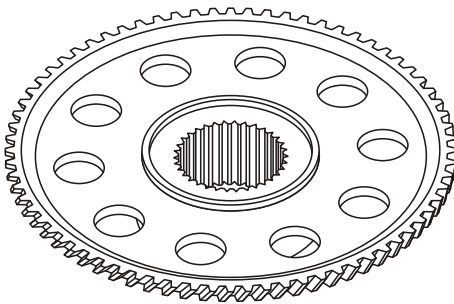
**"1ST DESIGN"  
REAR RING GEAR HUB**



**"2ND DESIGN"  
REAR RING GEAR HUB**

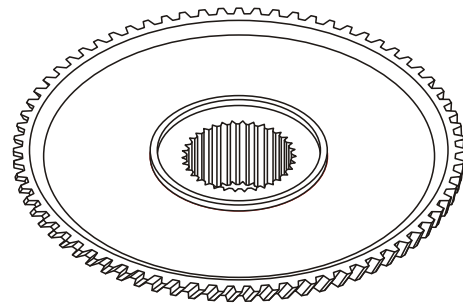


**"1ST DESIGN"  
REAR RING GEAR HUB**



**"OK NOT USE"  
WITH NEW CARRIER**

**"2ND DESIGN"  
REAR RING GEAR HUB**



**PART NUMBER  
3C3Z-7D164-AA**

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Figure 3