



# Technical Service Information

## FORD 6R140W CENTER GEAR CASE CHANGE

**CHANGE:** Some time during the 2015 model year the location of the rear selective shim was moved to the number 2 sun gear and thrust bearing. A thrust bearing was added in place of the rear selective shim on top of the 2-6 Clutch housing.

The previous design which can be seen in figures 1 and 2 show that the thrust bearing is installed on top of the number 2 sun gear and the rear selective shim is located on top of the 2-6 Clutch housing.

It is recommended to use the second design 2-6 Clutch housing seen in figure 3. The housing is shorter than the previous design. The anti-fretting ring shown in figure 4 has to be used the second design level 2-6 Clutch housing.

It is also recommended to use the open style rear planet as seen in figure 5. Also seen in figures 5 and 6 is the number 2 sun gear which is installed into the planet, then the thrust bearing with the open race facing up is installed onto the number 2 sun gear and finally the rear selective shim is installed into the thrust bearing open race. Figures 8 and 9 show the new location of the thrust bearing on top of the 2-6 Clutch housing.

**REASON:** To increase durability.

**PARTS AFFECTED:**

None, clearance will be determined by the rear selective shim thickness as shown in the chart in figure 7. Shim identification and part numbers are also shown in the chart.

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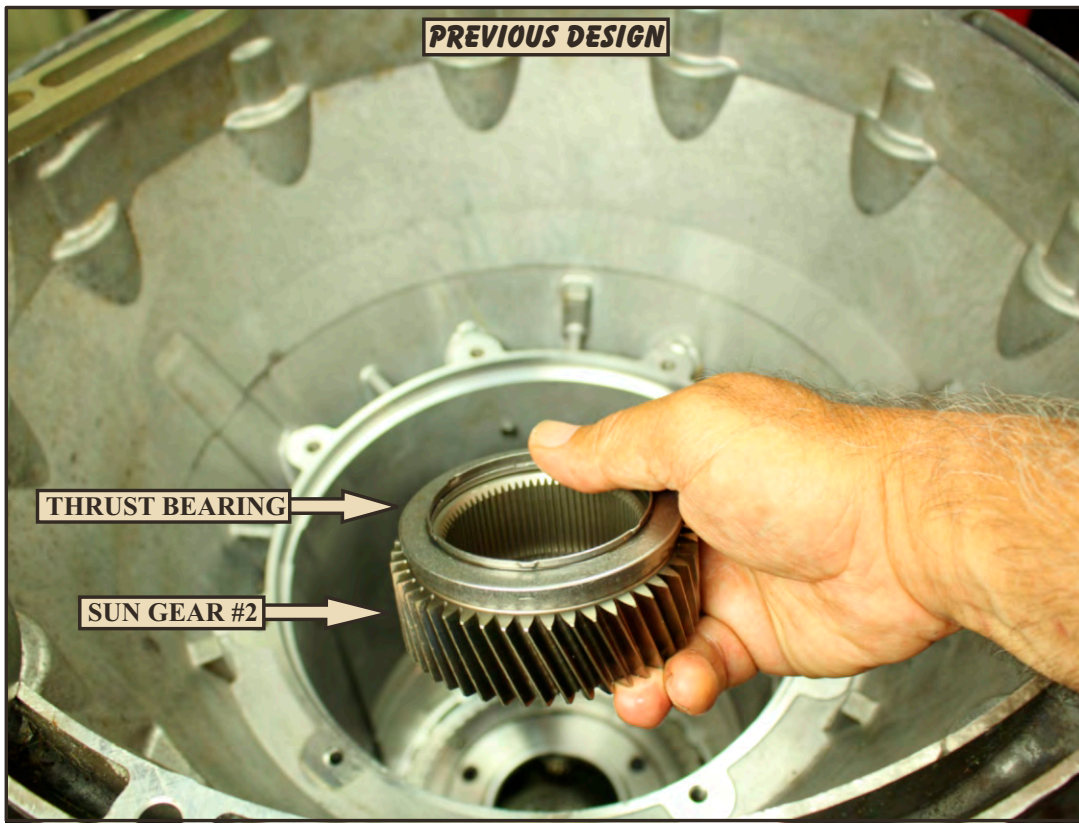


Figure 1

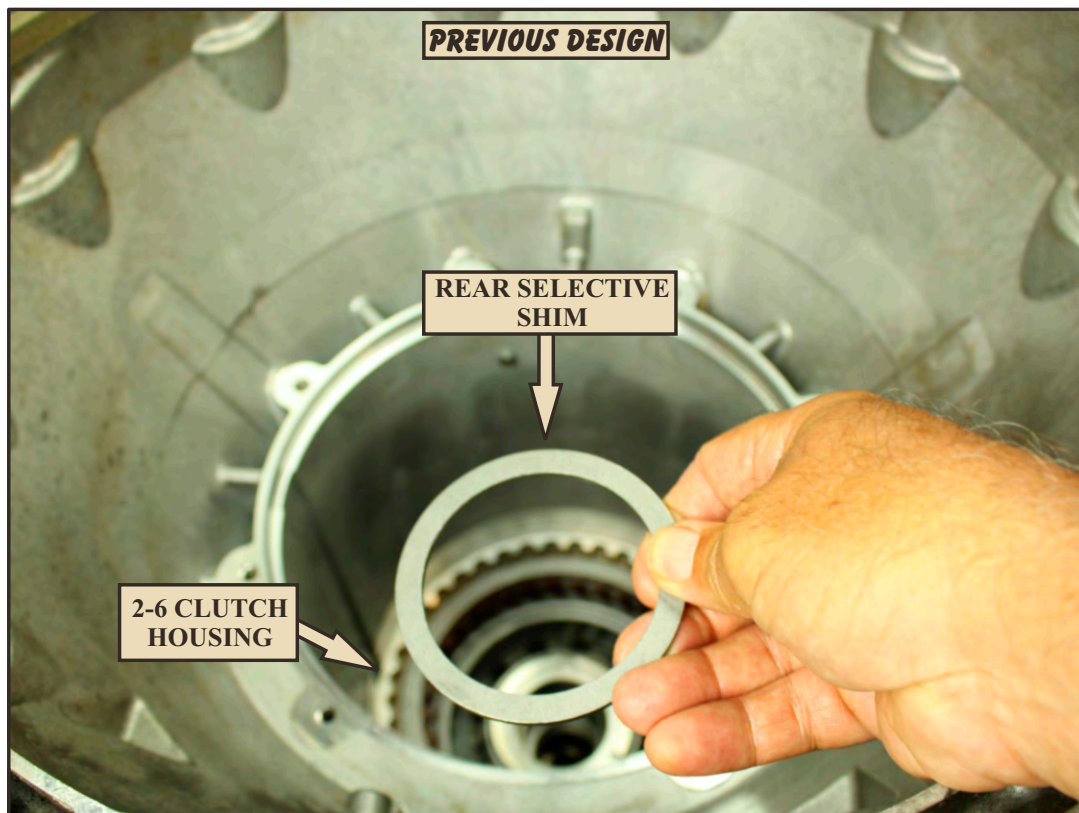


Figure 2



## FORD 6R140W CENTER GEAR CASE CHANGE

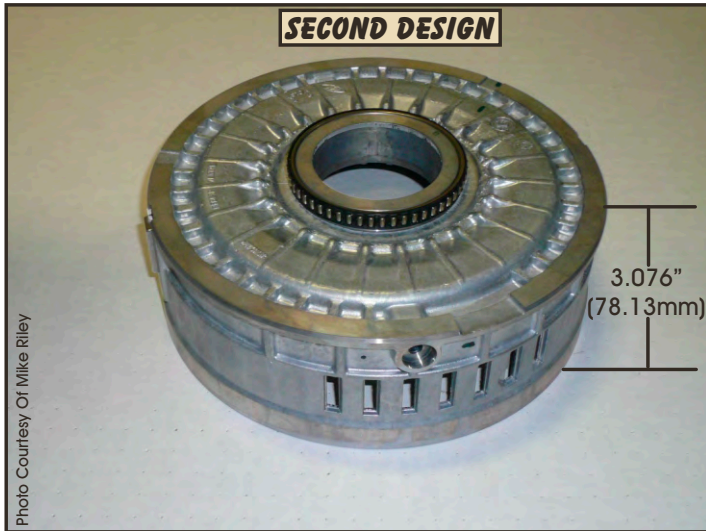


Figure 3



Figure 4

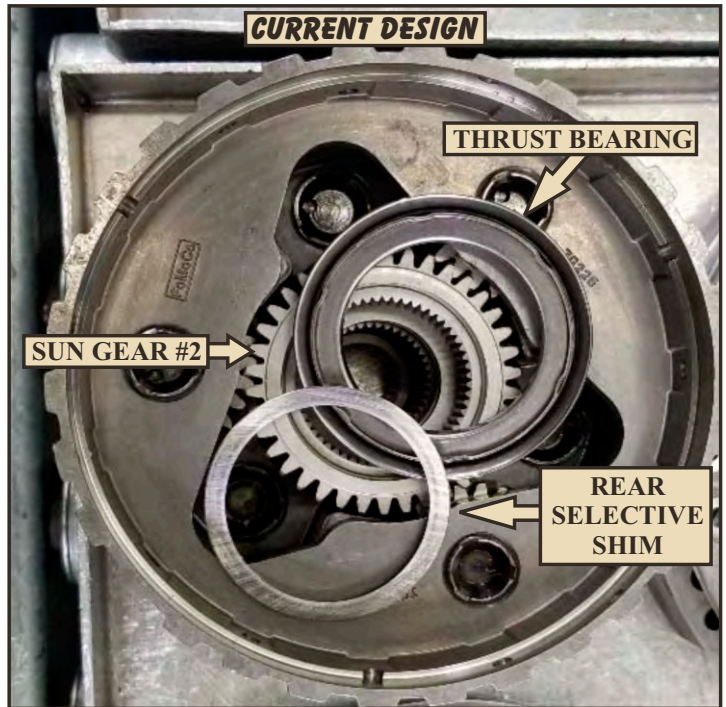


Figure 5

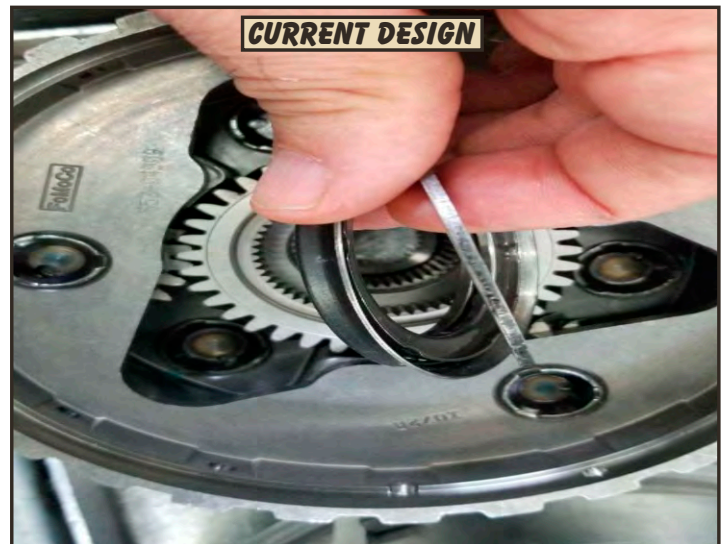


Figure 6

*CLEARANCE	SELECTIVE SHIM PART #	DIMENSION/COLOR
.148" - .156" (3.75mm - 3.95mm)	BC3Z-7F405-E	.112" - .116" (2.85mm - 2.95mm)/Black
.156" - .163" (3.95mm - 4.15mm)	BC3Z-7F405-A	.120" - .124" (3.05mm - 3.15mm)/Yellow
.164" - .171" (4.16mm - 4.35mm)	BC3Z-7F405-B	.128" - .132" (3.25mm - 3.35mm)/White
.172" - .179" (4.36mm - 4.55mm)	BC3Z-7F405-C	.136" - .140" (3.45mm - 3.55mm)/Red
.180" - .187" (4.56mm - 4.75mm)	BC3Z-7F405-D	.143" - .148" (3.65mm - 3.75mm)/Blue
*The target clearance with the correct rear selective shim installed is .031" - .043" (0.8mm - 1.1mm)		

Figure 7



## FORD 6R140W CENTER GEAR CASE CHANGE



Figure 8

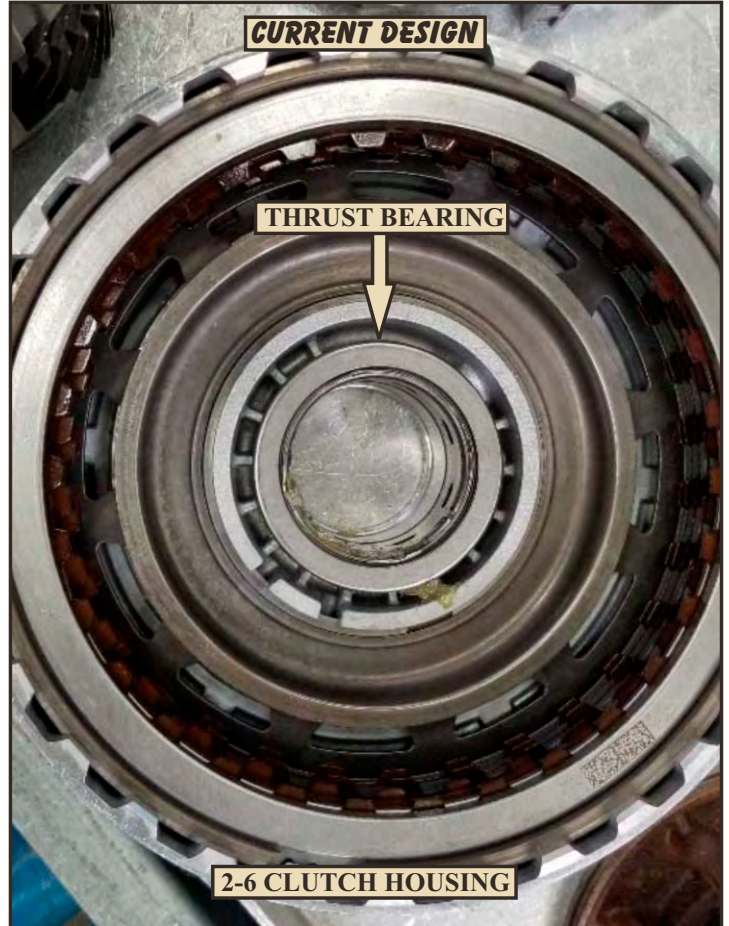


Figure 9