



Technical Service Information

FORD 4R70W NUMBER 5 THRUST BEARING CHANGE 1994-2003 MODELS ONLY

CHANGE: There is now available, for *1994-2003 models only*, equipped with the 4R70W transmission, a new service package that contains the forward sun gear, a new design number 5 bearing and new design sun gear shell, as illustrated in Figure 1.

REASON: To eliminate the possibility of mismatching service parts, which would result in gear noise, as well as damage to these and other internal transmission components, due to dimensional differences.

PARTS AFFECTED:

- (1) NUMBER 5 THRUST BEARING - The new design number 5 thrust bearing bearing is now a "two piece open" design (needles exposed) and is .205" (5.24mm) in thickness, as shown in Figure 2. The previous design is a "one piece closed" bearing and is .175" (4.5mm) in thickness, as shown in Figure 2.
- (2) REVERSE SUN GEAR AND SHELL ASSEMBLY - The new Sun Gear Shell is shorter, 1.852" (47.04mm) as measured in Figure 2, to accommodate the thicker number 5 thrust bearing. It also has a small groove machined at the base of the bushing journal for identification, as shown in Figure 2. The previous Sun Gear Shell is 1.882" (47.80mm) and does not have an ID groove. Refer to Figure 2.
- (3) FORWARD SUN GEAR - Both previous and new Forward Sun Gears are the exact same length, 4.0" (101.6mm). The new design Forward Sun Gear has a groove machined at the base of the splines, and a blue dye stripe for identification purposes, as shown in Figure 2, and appears to have a different hardening process.

Note: *Blue dye stripe will wear off during vehicle operation.*

INTERCHANGEABILITY:

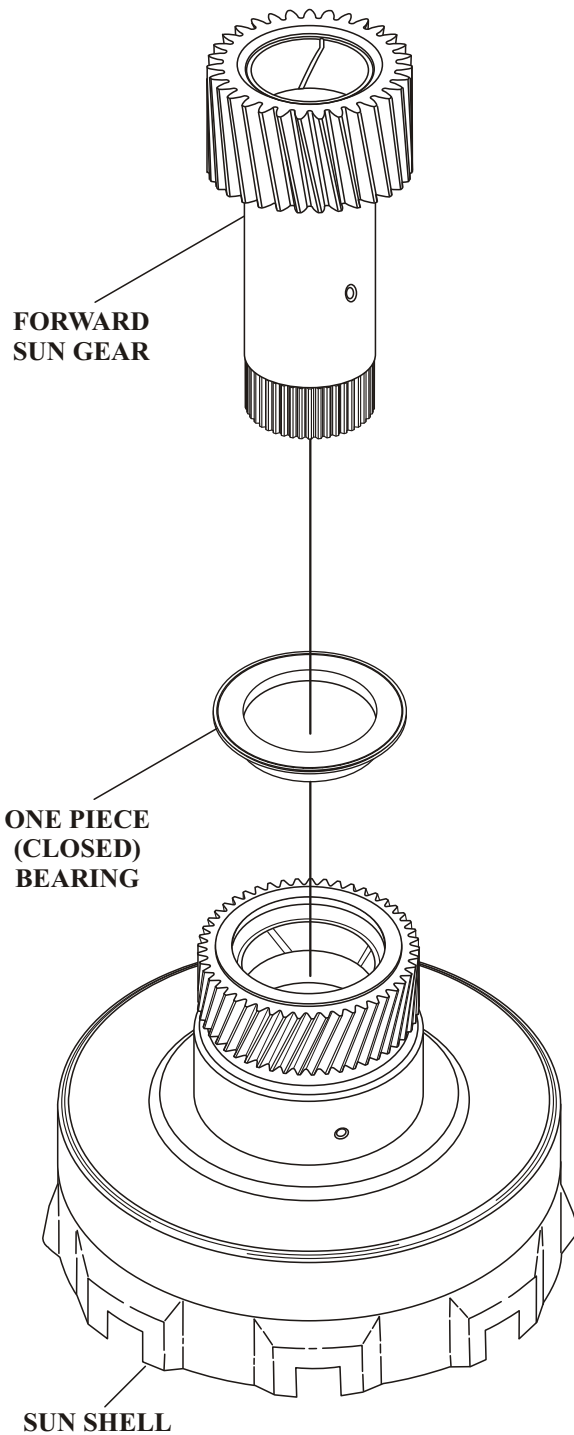
This new service kit will back service all 4R70W transmissions from *1994 to 2003 "Only"*. It **cannot** be used in 2004 or later models due to the addition of a turbine speed sensor, which created a totally different sun gear shell.

SERVICE INFORMATION:

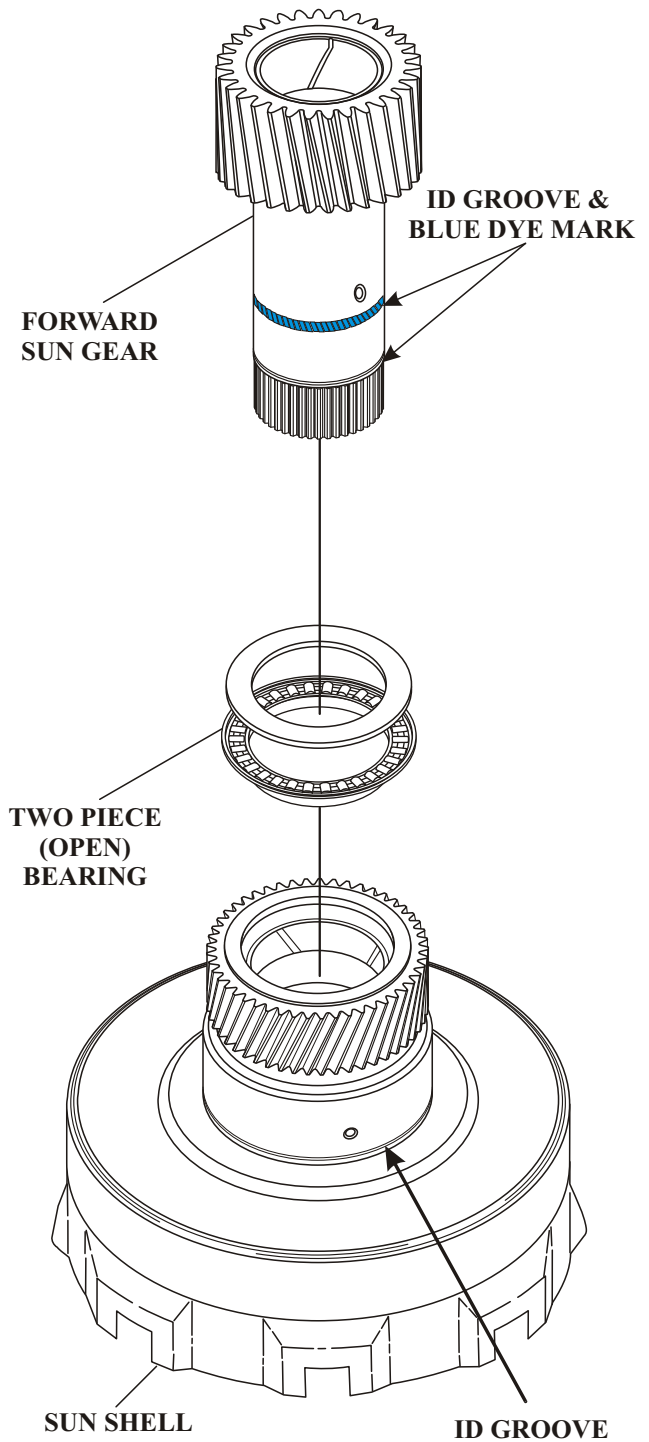
1994 to 2003 4R70W Trans Service Package..... 4L3Z-7D234-AA

Copyright © 2006 ATSG

"PREVIOUS" DESIGN LEVEL

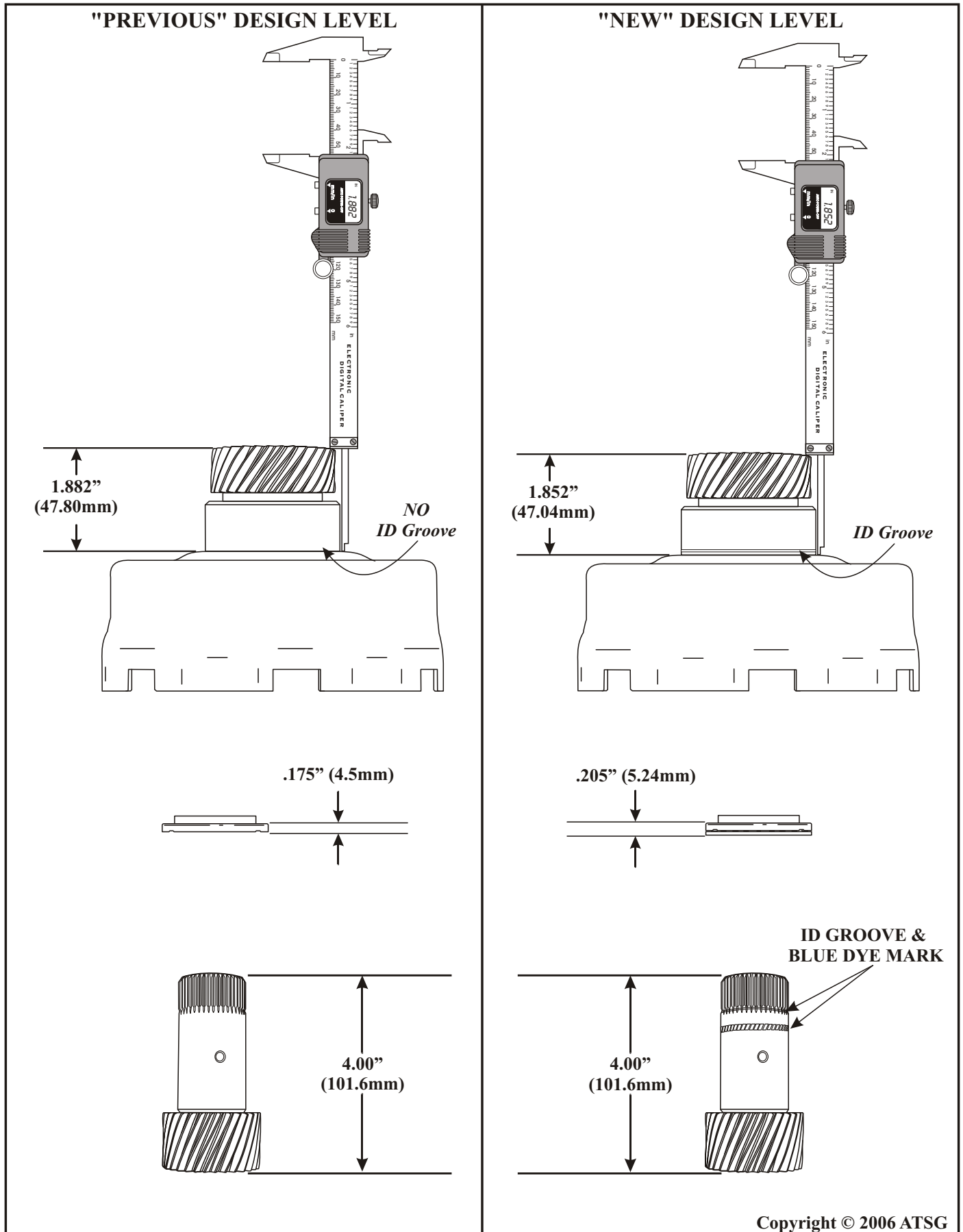


"NEW" DESIGN LEVEL (Part No. 4L3Z-7D234-AA)



Copyright © 2006 ATSG

Figure 1



Copyright © 2006 ATSG

Figure 2