



# Technical Service Information

## 4L80-E

### ENGINE STUMBLE/STALL ON ENGAGEMENT

**COMPLAINT:** Immediately after overhaul the engine will stumble or stall out completely when the shifter is placed into Overdrive or Reverse.

**CAUSE:** During the overhaul process the original 1997 or later design sun gear shaft was replaced with a 1996 or earlier design sun gear shaft. This was the only piece replaced in the main planetary gear train. All other related gear train parts remain original.

**CORRECTION:** The sun gear shafts used in 1997 and later center lube transmissions have a shortened bushing journal when compared to the earlier design. Using the earlier design shaft with the longer bushing journal will create a restriction in the oil cooler/lube circuit and cause the converter clutch to drag.

Disconnect the rear cooler line from the case fitting. Place a suitable piece of hose on to the end of the cooler line so as not to bend or kink the line and then direct the open end of the hose into a clean bucket or suitable container.

Start the engine and with the brakes applied, shift the transmission into gear. If the condition is eliminated, the restriction is internal to the transmission.

Replace the sun gear shaft with the proper part for your application. (See figure 1)

*Note: If you are able to keep the engine from stalling out completely and attempt to take the vehicle for a road test, then severe damage to the main planetary gear train will be the result.*

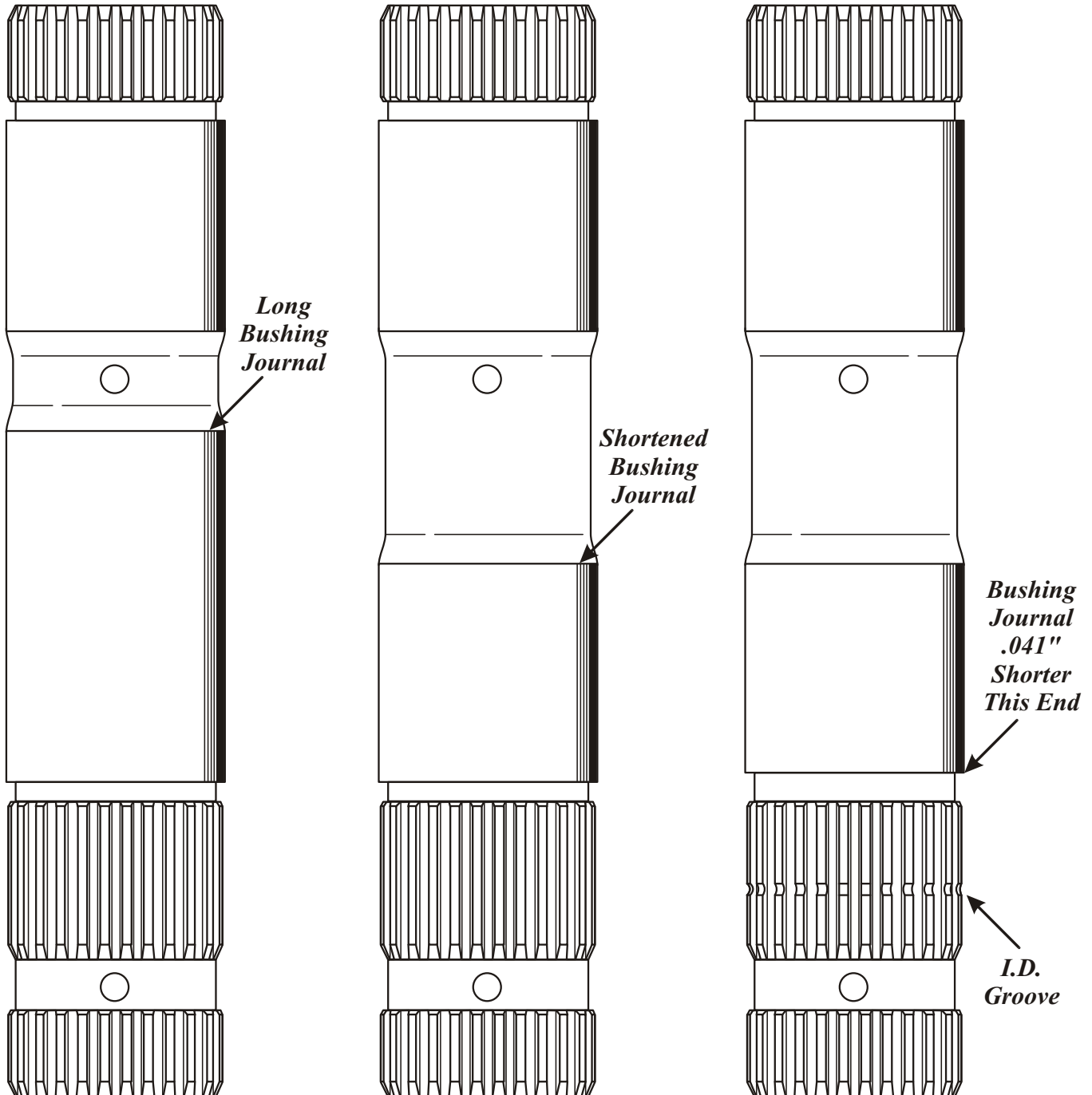
## 4L80-E

### ENGINE STUMBLE/STALL ON ENGAGEMENT

**1ST DESIGN LEVEL  
SUN GEAR SHAFT  
1991-96**

**2ND DESIGN LEVEL  
SUN GEAR SHAFT  
1997-98  
PART NO. 24207247**

**3RD DESIGN LEVEL  
SUN GEAR SHAFT  
1999- UP  
PART NO. 24207264**



Copyright © 2006 ATSG

Figure 1