



THM 4L80-E/4L80-EHD

CENTER GEAR BOX DIFFERENCES ON CENTER LUBE TRANSMISSIONS

CHANGE: Beginning at the start of production for all 1997 model 4L80E/4L80EHD transmissions were produced with center lube, in addition to front and rear lube. ATSG Bulletin No. 97-38 covers some of the changes that occurred. This bulletin covers changes that occurred in the center gear box area that was not covered in bulletin 97-38.

REASON: Provides a more desirable distribution of lube flow to the center of transmission.

PARTS AFFECTED:

- (1) SUN GEAR SHAFT - Has revised bushing journals to accommodate the new center support, as shown in Figure 1, and *must* be used with the new center support.
- (2) SUN GEAR - Has larger lubrication passages on the inside splines of the sun gear, and the new design has a smaller hole between the gears, as shown in Figure 2.
- (3) REAR RING GEAR SHAFT - The lube holes that were cross drilled in the previous shaft, as well as the lube passage through the center, have been eliminated in the new design shaft, as shown in Figure 3.
- (4) REAR INTERNAL RING GEAR - New design level has lube passages cut through the area where the shaft splines into the ring gear, and lube passages cut into the bearing race that goes on the internal ring gear in this location, as shown in Figure 4.
- (5) OUTPUT SHAFT - New design has eliminated the lube hole that was present in the previous models, as shown in Figure 5.

INTERCHANGEABILITY:

None of the parts listed will interchange with any of the previous design level parts, and none of the previous design level parts can be used in the center lube design level units.

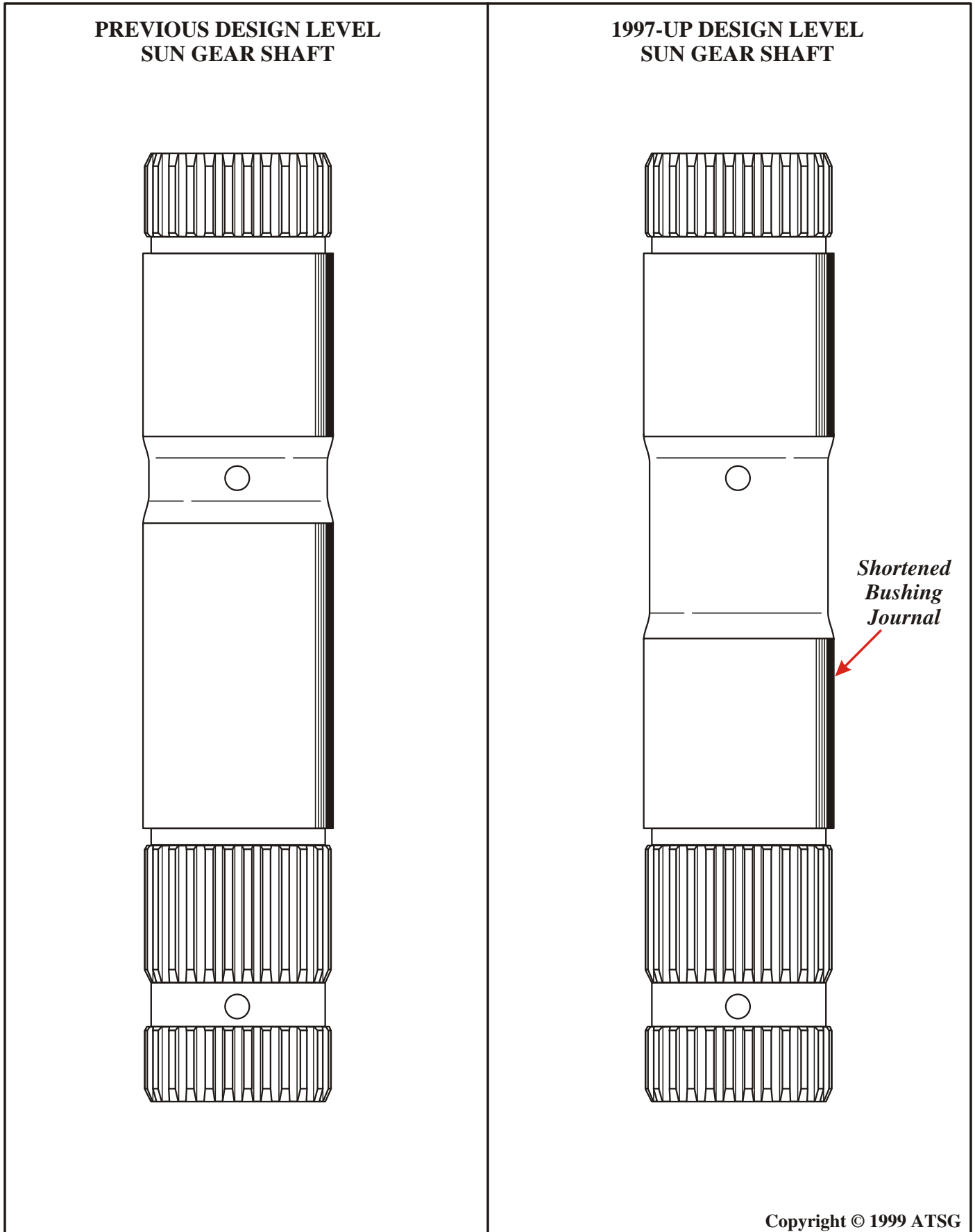


Figure 1

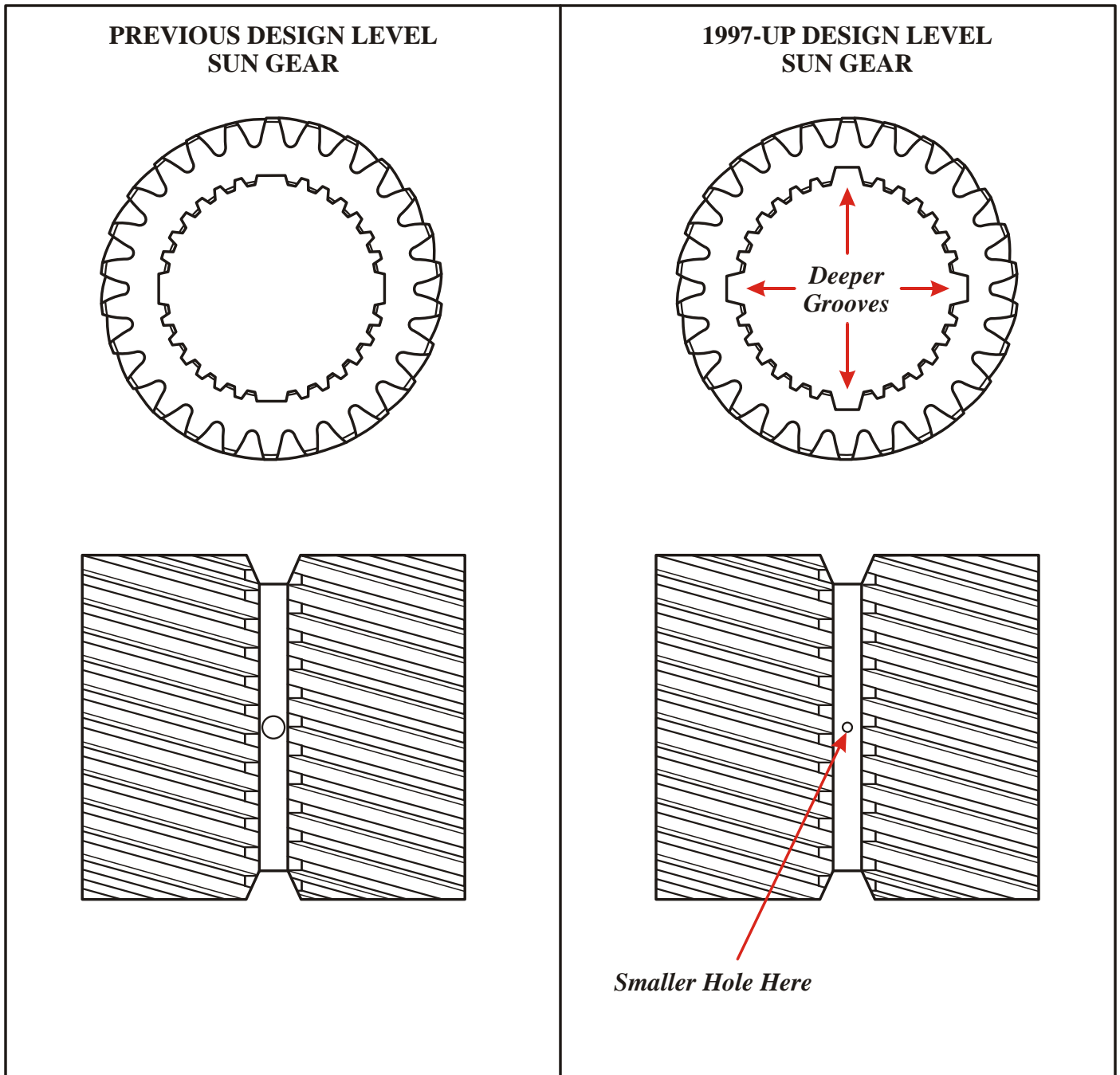


Figure 2

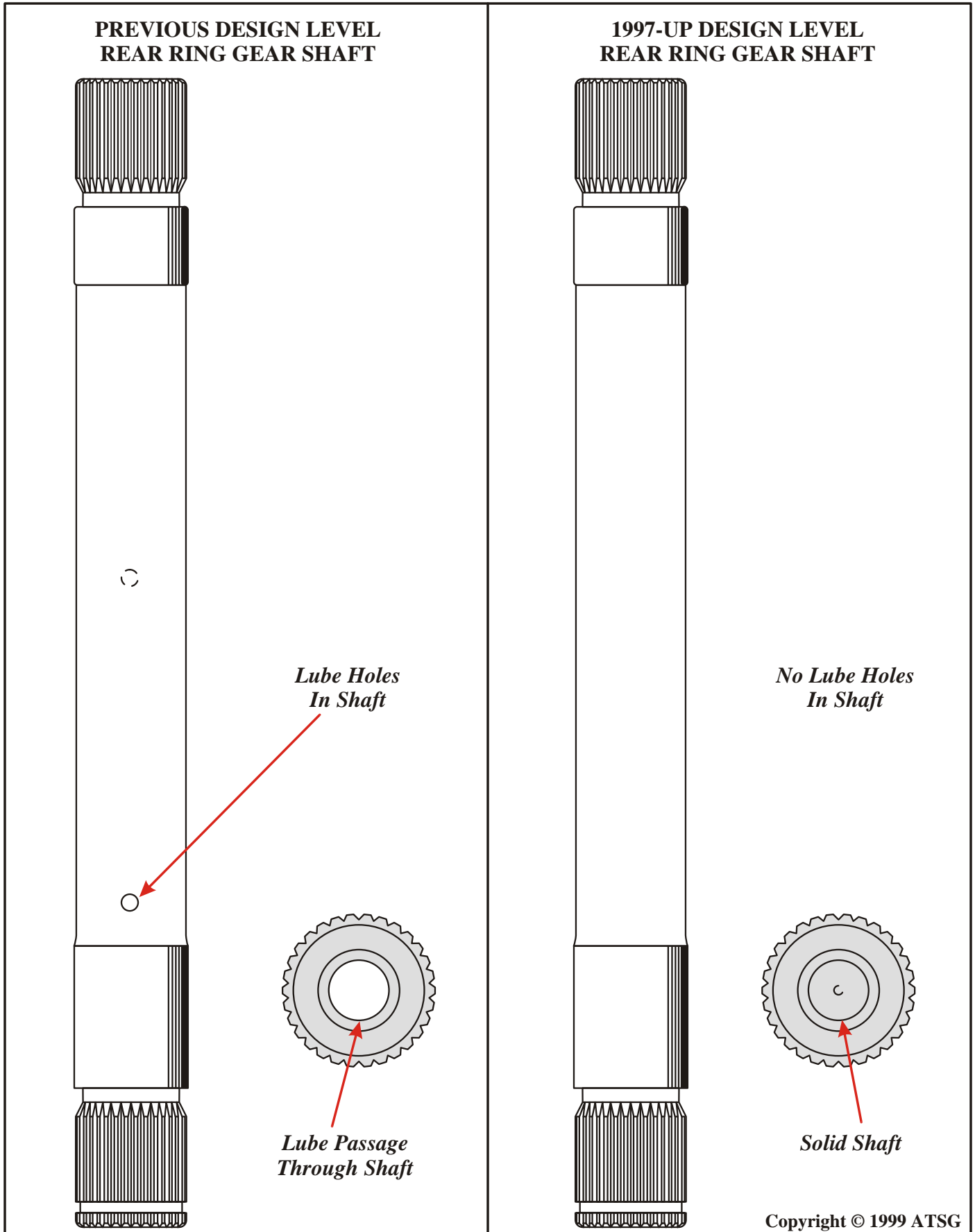
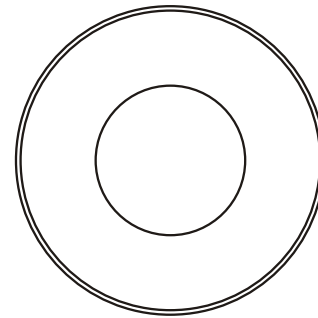


Figure 3

PREVIOUS DESIGN LEVEL REAR RING GEAR AND BEARING RACE

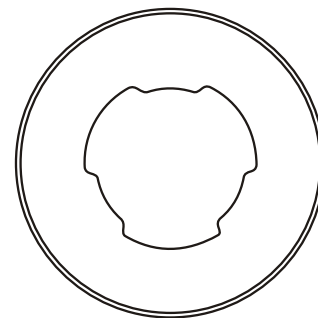
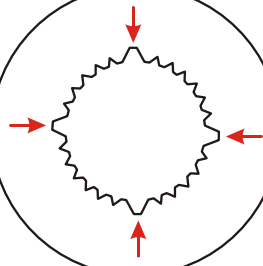
*No Lube Passages
Through Splines*



*Round Hole In
Center Of The
Bearing Race*

1997-UP DESIGN LEVEL REAR RING GEAR AND BEARING RACE

*Four Lube Passages
Through Splines*



*Lube Passages In
Center Of The
Bearing Race*

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Figure 4

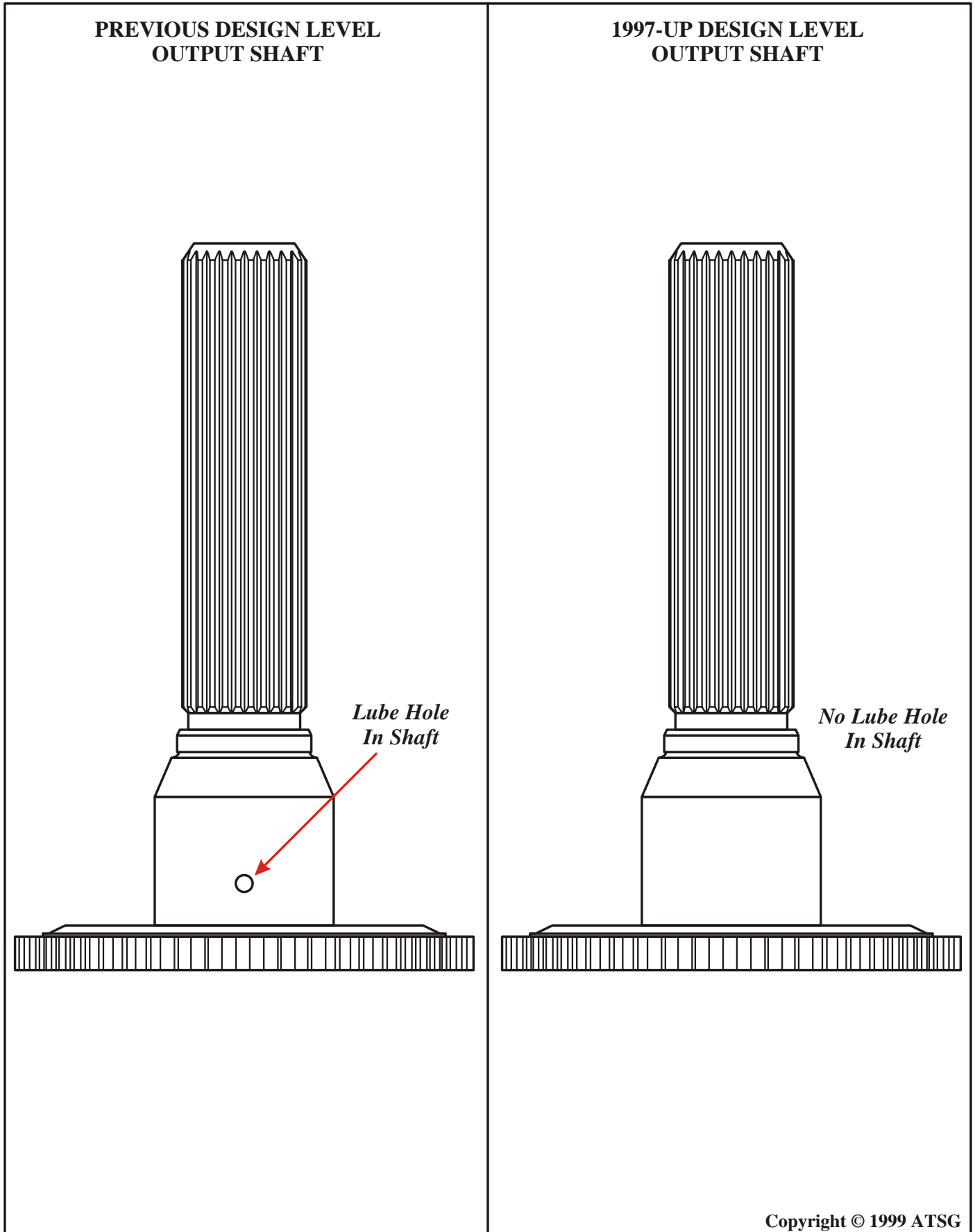


Figure 5