



# Technical Service Information

## THM 440-T4 NEW DESIGN O.D. SHAFT WITHOUT BEARING

**CHANGE:** Beginning on June 1, 1993 (Julian Date 152) ALL THM 4T60-E transaxles were built with a new design output shaft WITHOUT a caged needle bearing, a new 4th clutch hub and shaft, a new input housing assembly, and a new input sun gear.

**REASON:** To eliminate a transaxle vibration at an engine speed between 3000-5000 RPM, when in 2nd gear ONLY, and increase pleaseability concerns.

### PARTS AFFECTED:

- (1) OUTPUT SHAFT - Caged needle bearing located in the center of the output shaft has been eliminated, as shown in Figure 1.
- (2) INPUT/3RD CLUTCH HOUSING ASSEMBLY - Caged needle bearing ADDED to the input housing assembly, and located on the inside diameter of the input shaft, as shown in Figure 2.
- (3) 4TH CLUTCH HUB AND SHAFT - Hardened sleeve added to the shaft next to the splines that is 1.310" in diameter, and rides in the added bearing in the input/3rd clutch housing, as shown in Figure 2.
- (4) INPUT SUN GEAR - Since the sun gear no longer rides on a bearing, it was not necessary to machine the surface finish on the inside diameter. The inside diameter has been reduced preventing it from being installed into transaxle with a bearing on the output shaft.

### INTERCHANGEABILITY:

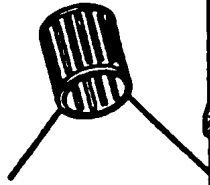
The parts listed above will back service ALL 4T60-E transaxles when used as a package, and will also service 4T60 (440-T4) transaxles back to 1989. The 4th clutch hub and shaft assembly will back service all 4T60 (440-T4) and 4T60-E transaxles, and is compatible with previous design level parts. The input sun gear inside diameter has been reduced preventing it from being installed in transaxle with a bearing on the output shaft. Previous input sun gear OEM part number 8682441 (For Dual Sprag) can be used in either application.

### SERVICE INFORMATION:

4th Clutch Hub and Shaft Assembly (New Design) .....	24201094
Output Shaft (New Design) .....	8683560
input/3rd Clutch Housing and Bearing Asm (New Design) .....	8651937
Input Sun Gear (New Design) .....	8683559
Vibration Repair Package	
(Includes 4 Parts Listed Above) .....	8651936

PREVIOUS DESIGN OUTPUT SHAFT

CAGED NEEDLE BEARING



NEW DESIGN OUTPUT SHAFT  
WITH BEARING REMOVED

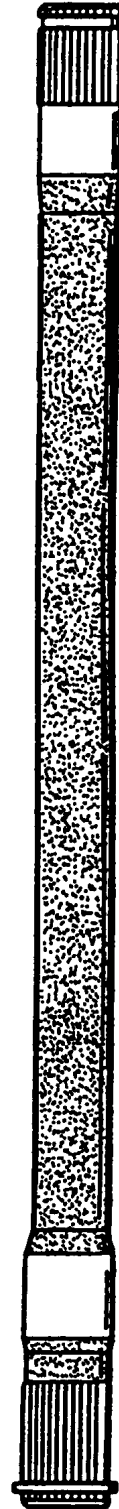


Figure 1

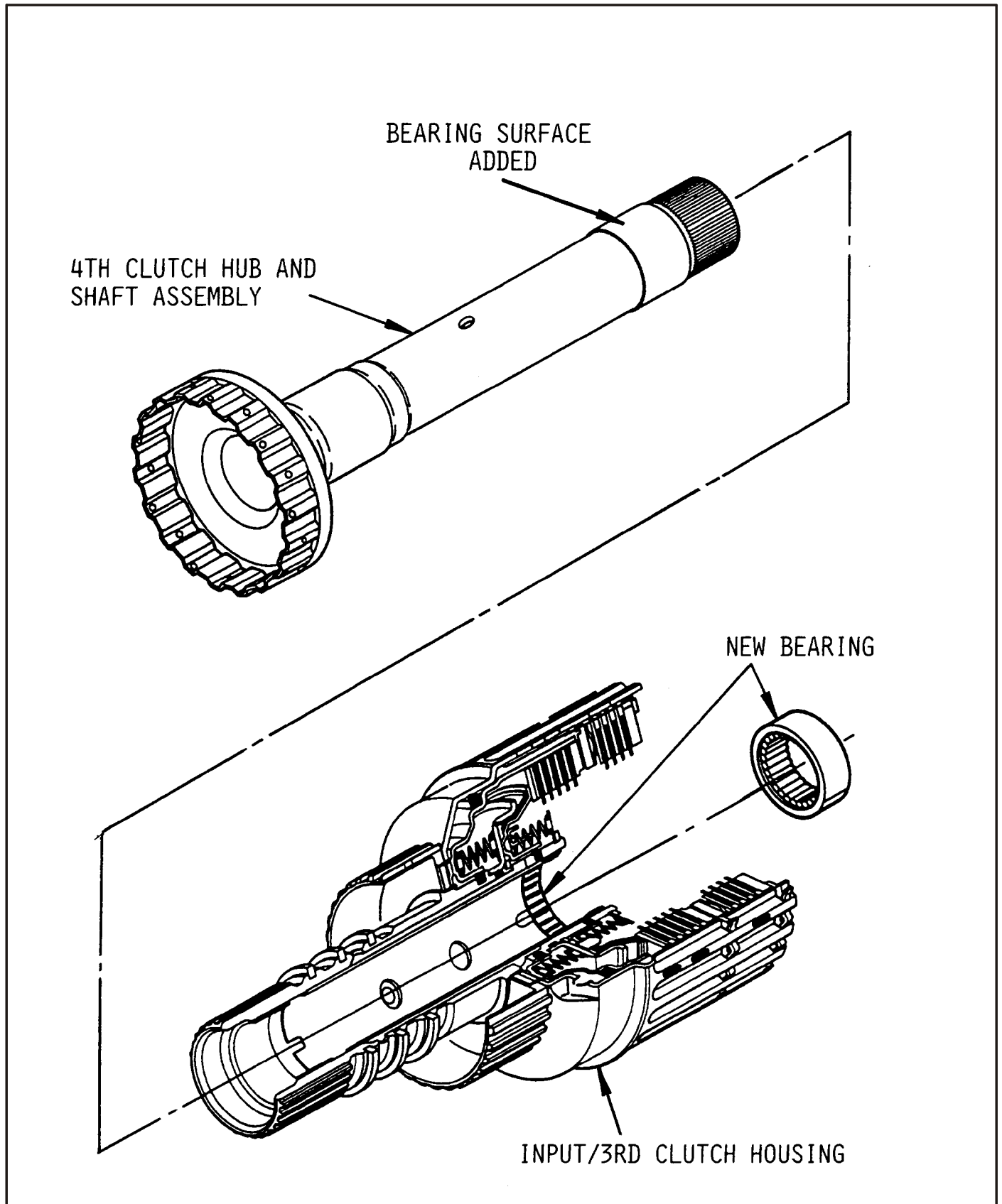


Figure 1