



Technical Service Information

FORD 4R70W /4R70E/4R75E 2003-UP

NO SPEEDOMETER READING OR SPEEDOMETER READING SLOW

COMPLAINT: After overhaul or transmission exchange, Ford Motor Company vehicles equipped with the 4R70W/4R70E/4R75E Transmission may exhibit either a no speedometer reading, or a slow speedometer reading, and may be accompanied by DTC's P0720-P0722 which is an indication of a problem with the OSS (OUTPUT SHAFT SPEED SENSOR), shown in Figure 1. The Powertrain Control Module uses the signal from the Output Shaft Speed Sensor to calculate Vehicle Speed.

CAUSE: Beginning at the start of production for the 2004 model year, this family of transmissions is manufactured with extended parking lugs on the ring gear to trigger the output speed sensor, instead of the previous design with holes in the ring gear, which also required a strategy change in the PCM. If either a transmission earlier than 2004, or the use of 2003 or earlier ring gear is installed in a 2004-up vehicle, the PCM will not be able to correctly calculate vehicle speed, and will result in either no speedometer reading, or a slow speedometer reading. DTC's P0720-P0722 may be set. The 2004-up Rear Ring that has the extended park lugs utilizes the Output Shaft Speed Sensor with the white body, and a black connector (See Figure 5). The 2003-earlier units had the Rear ring gear with the holes, and utilizes the all black Output Shaft Speed Sensor, which is .083 inches longer than the 2004-up Output Shaft Speed Sensor (See Figure 4).

CORRECTION: Make sure that either during overhaul, or transmission exchange, the correct Rear Ring Gear, and Output Shaft Speed Sensor is used. (See Figures 4 and 5).

SERVICE INFORMATION:

| | |
|---|---------------|
| OUTPUT SPEED SENSOR, 2001-2003 (Square Connector) | 1L3Z-7H103-AB |
| OUTPUT SPEED SENSOR, 2004 Models (.083" Shorter) | 3L3Z-7H103-AA |

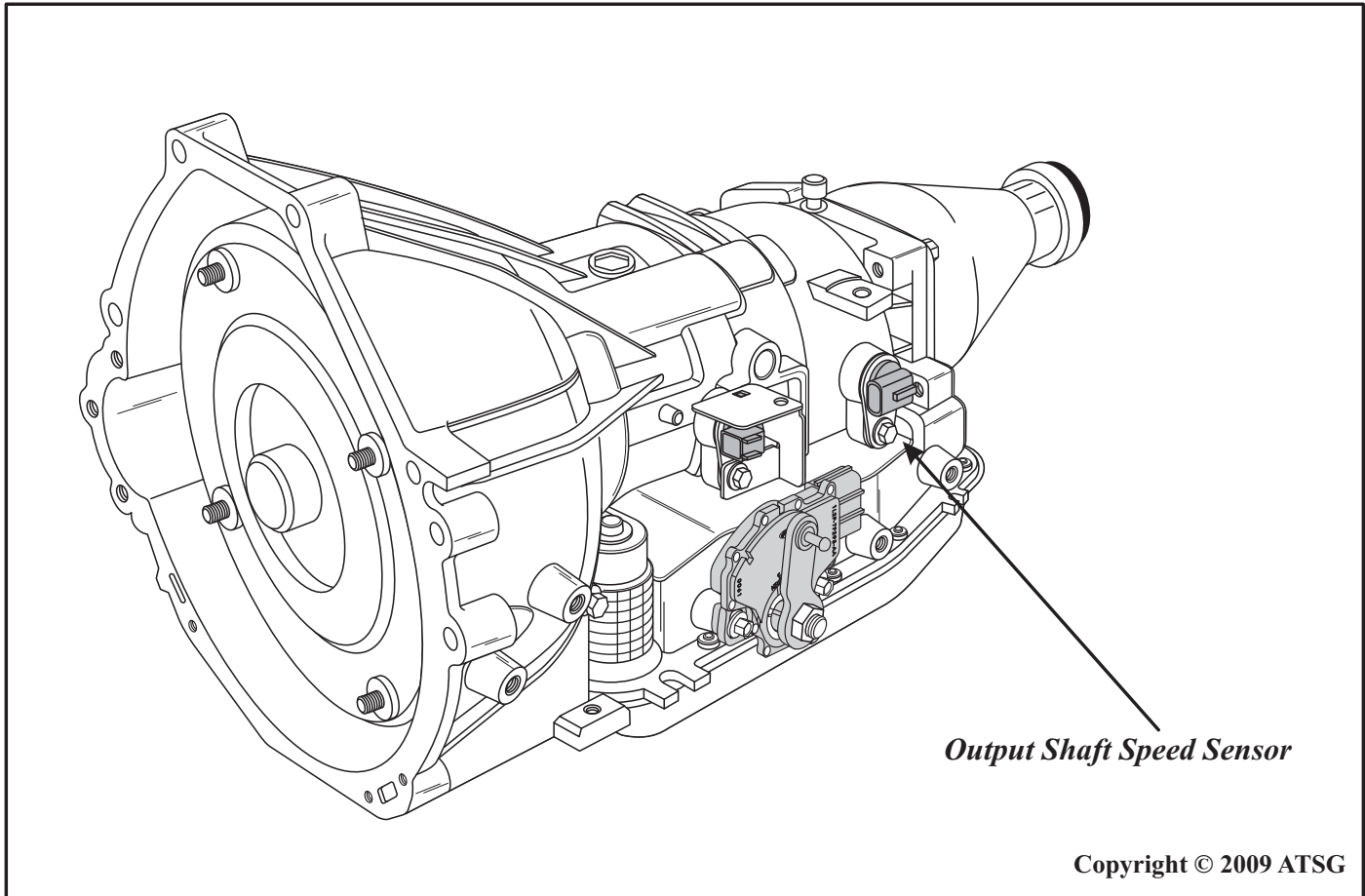


Figure 1

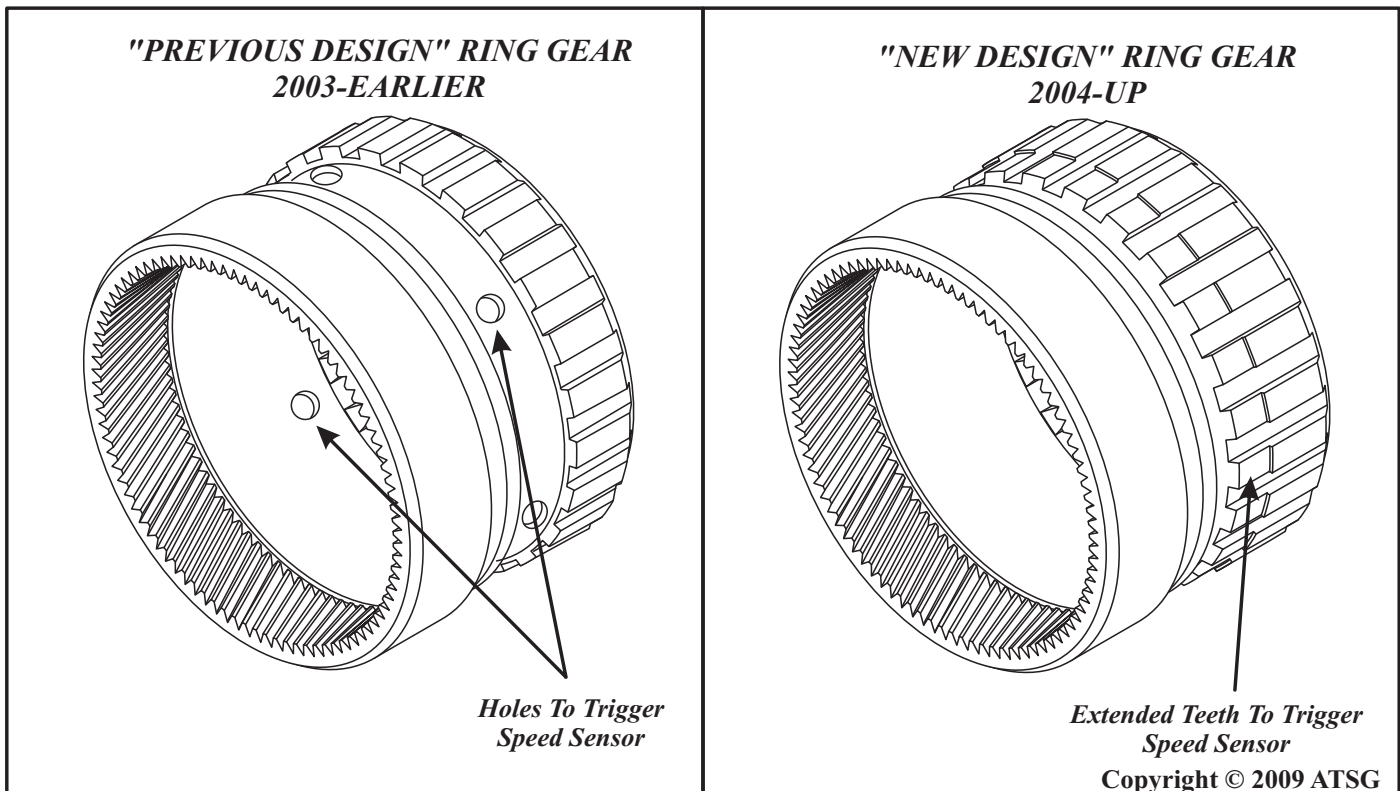
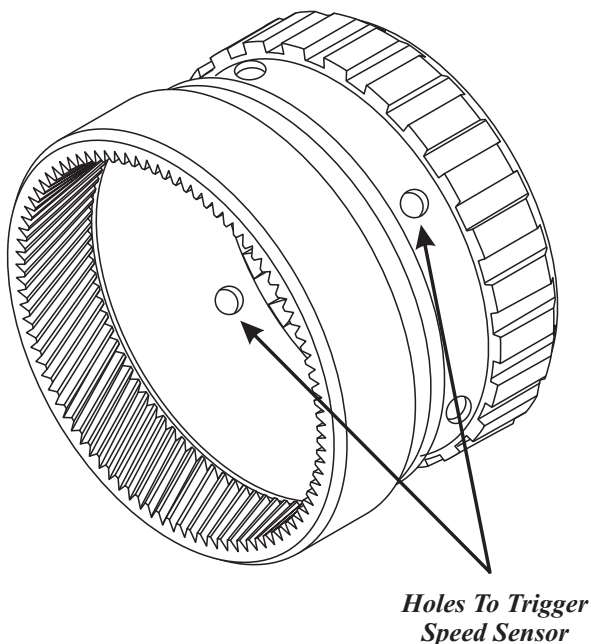


Figure 2

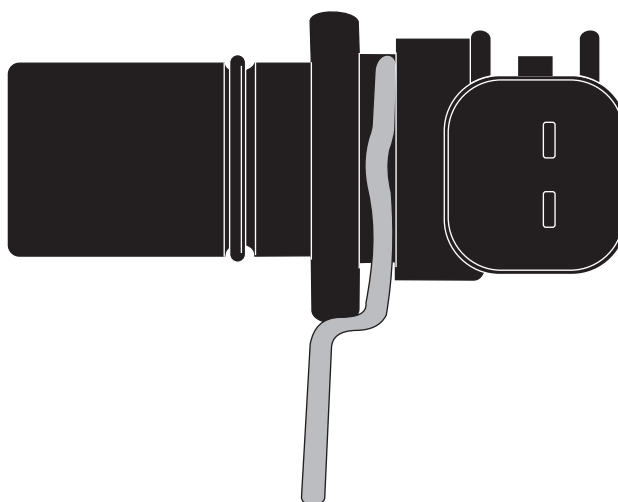
Figure 3

2003-EARLIER

"PREVIOUS DESIGN" RING GEAR
2003-EARLIER



2001-2003 OUTPUT SHAFT SPEED SENSOR
PART NUMBER 1L3Z-7H103-AB

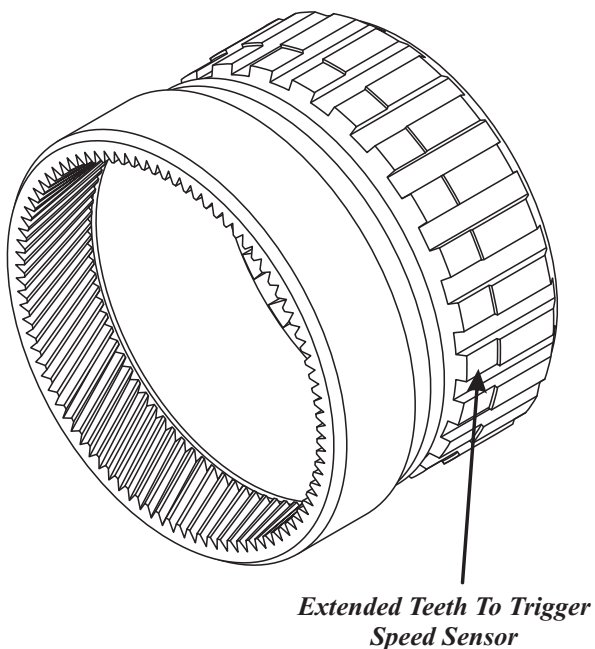


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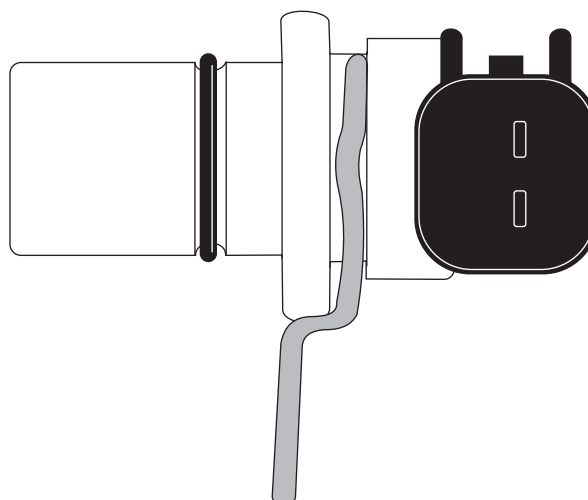
Figure 4

2004-UP

"NEW DESIGN" RING GEAR
2004-UP



2004-UP OUTPUT SHAFT SPEED SENSOR
PART NUMBER 3L3Z-7H103-AA



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