



Technical Service Information

THM 4T80-E TURBINE SHAFT SPEED SENSOR CHANGES

CHANGE: Beginning in the 1996 model year, on Julian Date 113, all THM 4T80-E transaxles were produced with a new design case casting, manual shaft and turbine shaft speed sensor.

REASON: Elimination of case cracks and ease of assembly on the factory final assembly line.

PARTS AFFECTED:

- (1) TRANSAXLE CASE - Thicker casting in the front seal area to help eliminate possible cracks and leakage and revised machining in the manual shaft seal bore area (See Figure 1).
- (2) MANUAL SHAFT - New design manual shaft has groove cut in shaft, to accept the bump on bottom of the turbine speed sensor wiring bracket, to locate and hold the manual shaft in the proper location in case (See Figure 1).
- (3) TURBINE SPEED SENSOR - Now manufactured with the bump on the bottom of turbine speed sensor wiring harness bracket, to position and retain manual shaft. The 1st design parts are shown in Figure 2 and the 2nd design parts are shown in Figure 3.

INTERCHANGEABILITY:

None of the parts listed above will interchange with previous design level parts, however, when using all three as a service package, they will retro-fit back to 1993.

SERVICE INFORMATION:

Turbine Shaft Speed Sensor, 93 to 96 (Julian Date 112)	24209654
Turbine Shaft Speed Sensor, 96 (Julian Date 113 to 2002)	24207491

Special Note: Manual Shafts are not serviced seperately, must purchase complete case.

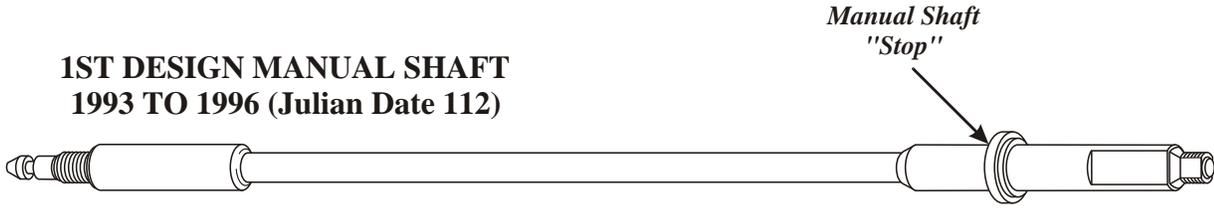
CAUTION!

CAUTION!

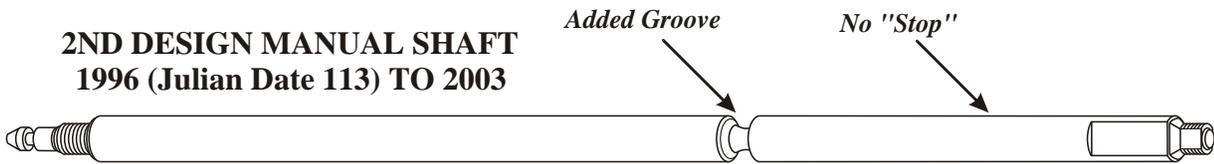
CAUTION!

If it becomes necessary to replace the turbine speed sensor, ensure that your new sensor has the wires in terminals "A" and "C", as shown in Figures 2 and 3. We have had some reports that the new sensor came with the green wire in terminal "B" and had to be moved to terminal "C". We have also had some reports of the black wire being in terminal "A" and the green wire being in terminal "B" on both sides of the connecting harness. Ensure that your wires match on both sides of connector, regardless of where they are located. Refer to Figures 2 and 3.

**1ST DESIGN MANUAL SHAFT
1993 TO 1996 (Julian Date 112)**



**2ND DESIGN MANUAL SHAFT
1996 (Julian Date 113) TO 2003**



*Case Casting Thicker
In These Areas*

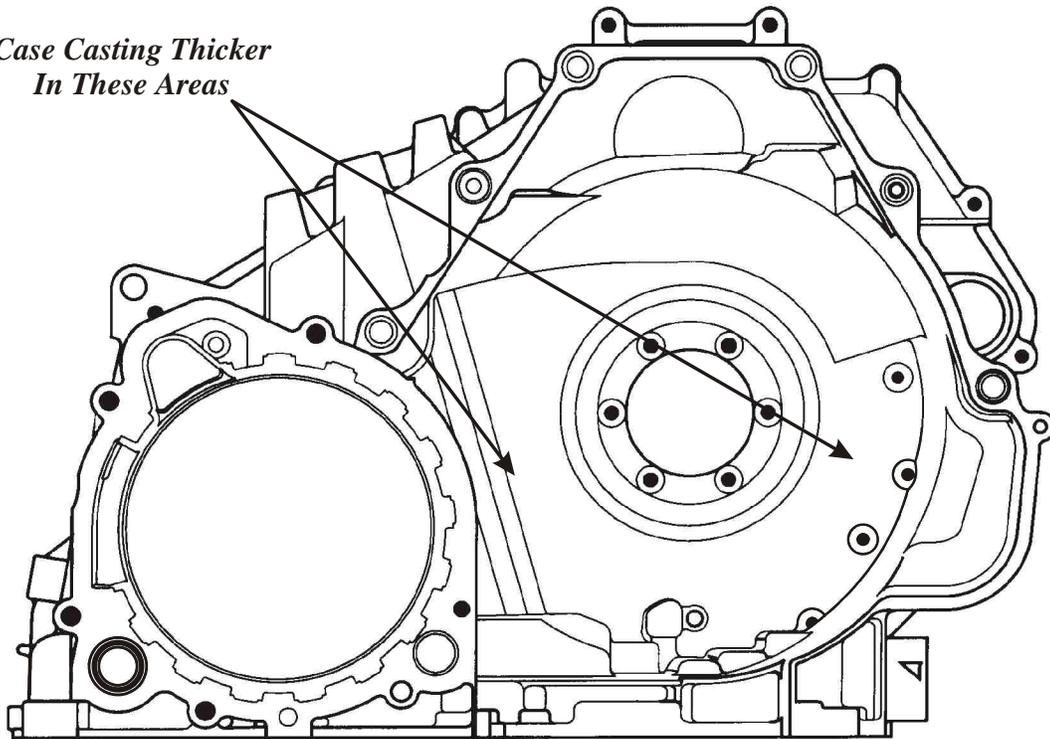
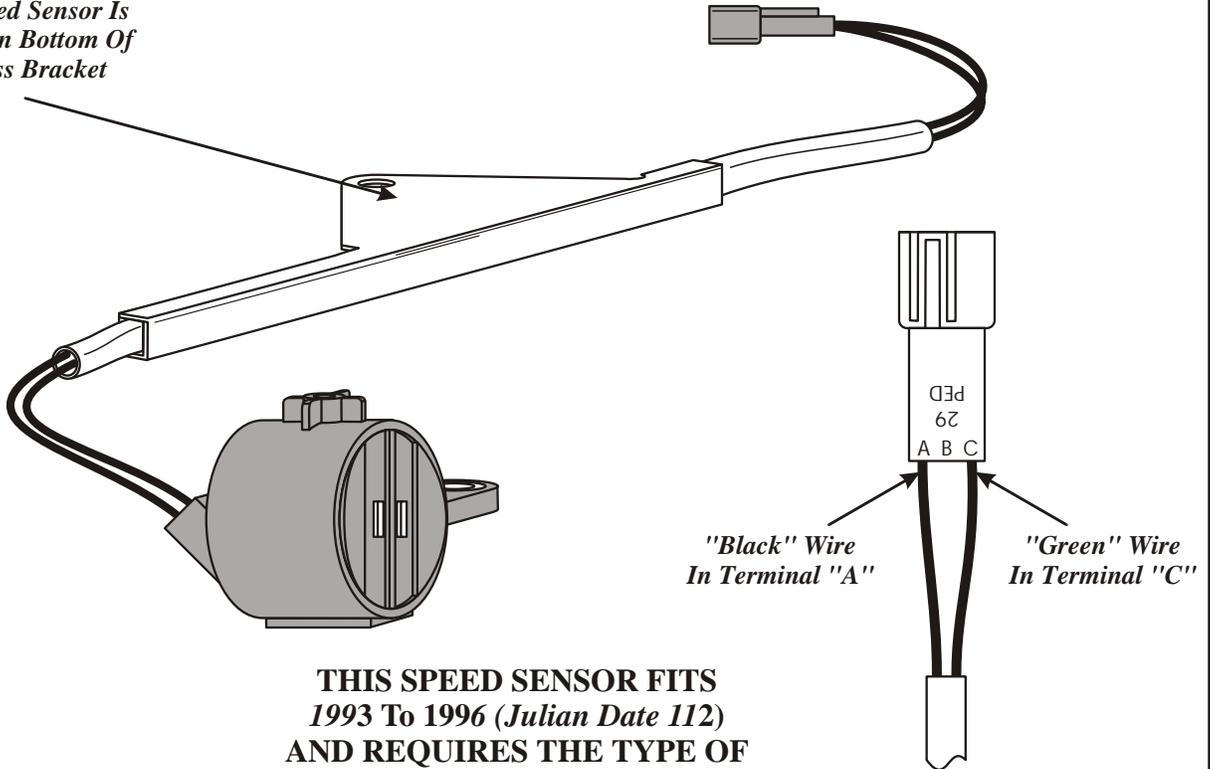


Figure 1

**THM 4T80-E 1ST DESIGN TURBINE SHAFT SPEED SENSOR
OEM PART NUMBER 24209654**

*This Speed Sensor Is
"Flat" On Bottom Of
Harness Bracket*



**THIS SPEED SENSOR FITS
1993 To 1996 (Julian Date 112)
AND REQUIRES THE TYPE OF
MANUAL SHAFT SHOWN BELOW**



CAUTION!

CAUTION!

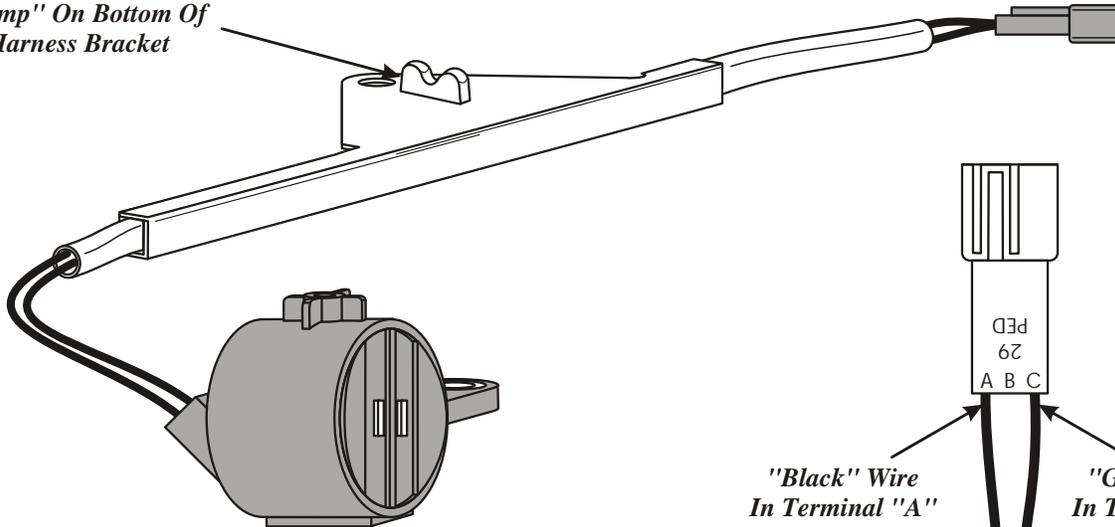
CAUTION!

If it becomes necessary to replace the turbine speed sensor, ensure that your new sensor has the wires in terminals "A" and "C", as shown here. We have had some reports that the new sensor came with the green wire in terminal "B" and had to be moved to terminal "C". We have also had some reports of the black wire being in terminal "A" and the green wire being in terminal "B" on both sides of the connecting harness. Ensure that your wires match on both sides of connector, regardless of where they are located.

Figure 2

THM 4T80-E 2ND DESIGN TURBINE SHAFT SPEED SENSOR OEM PART NUMBER 24207491

*This Speed Sensor Has
"Bump" On Bottom Of
Harness Bracket*

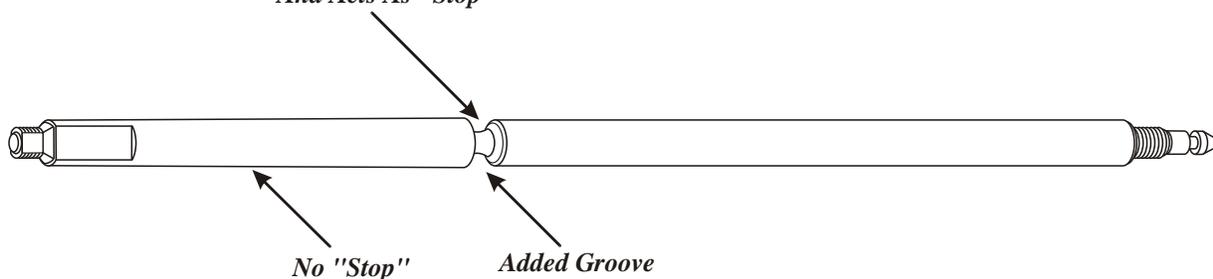


*"Black" Wire
In Terminal "A"*

*"Green" Wire
In Terminal "C"*

**THIS SPEED SENSOR FITS
1996 (Julian Date 113) TO CURRENT
AND IS "MANDATORY" FOR
THESE MODELS AS TRANSAXLE
IS EQUIPPED WITH THE MANUAL
SHAFT SHOWN BELOW**

*"Bump" On Bottom Of Harness Bracket
Fits Into Groove In Manual Shaft And
Positions Manual Shaft In Case
And Acts As "Stop"*



CAUTION!

CAUTION!

CAUTION!

If it becomes necessary to replace the turbine speed sensor, ensure that your new sensor has the wires in terminals "A" and "C", as shown here. We have had some reports that the new sensor came with the green wire in terminal "B" and had to be moved to terminal "C". We have also had some reports of the black wire being in terminal "A" and the green wire being in terminal "B" on both sides of the connecting harness. Ensure that your wires match on both sides of connector, regardless of where they are located.

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Figure 3