

THM 4T80-E TURBINE SHAFT SPEED SENSOR TROUBLE CODE "P056"

COMPLAINT: Some 1993-1996 model Cadillac vehicles equipped with the THM 4T80-E transaxle, may

exhibit a second gear start condition, and have trouble code "P056" stored in the PCM. Trouble codes *should* be accessed through the on-board diagnostic system and will be displayed on the Climate Control Center. We have seen scanners give us incorrect

information on these models.

CAUSE: The cause may be, a defective Turbine Shaft Speed Sensor, that is located under the channel

plate and triggered by the drive sprocket, as shown in Figure 1.

CORRECTION: Replace the the Turbine Shaft Speed Sensor with a new OEM part, available under OEM

Part Number 8685532. We have also provided you with wire connector pin identification for both case connector configurations so that you can check the resistance values on the TSS and Shift Solenoids. Refer to Figure 2 for the 1993 case connector and Figure 3 for the

1994 and later case connector.

Special Note: Since this has been the *number two problem* that we have been faced with on the telephone, we would highly recommend replacing the TSS as a mandatory replacement

part on every rebuild, because of its location.

SERVICE INFORMATION:

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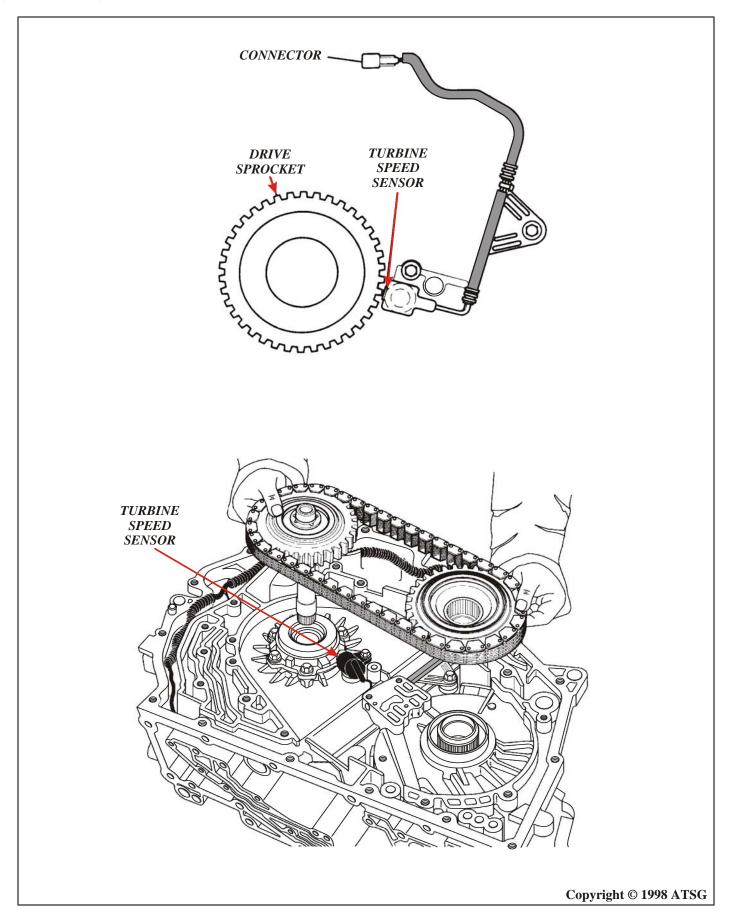
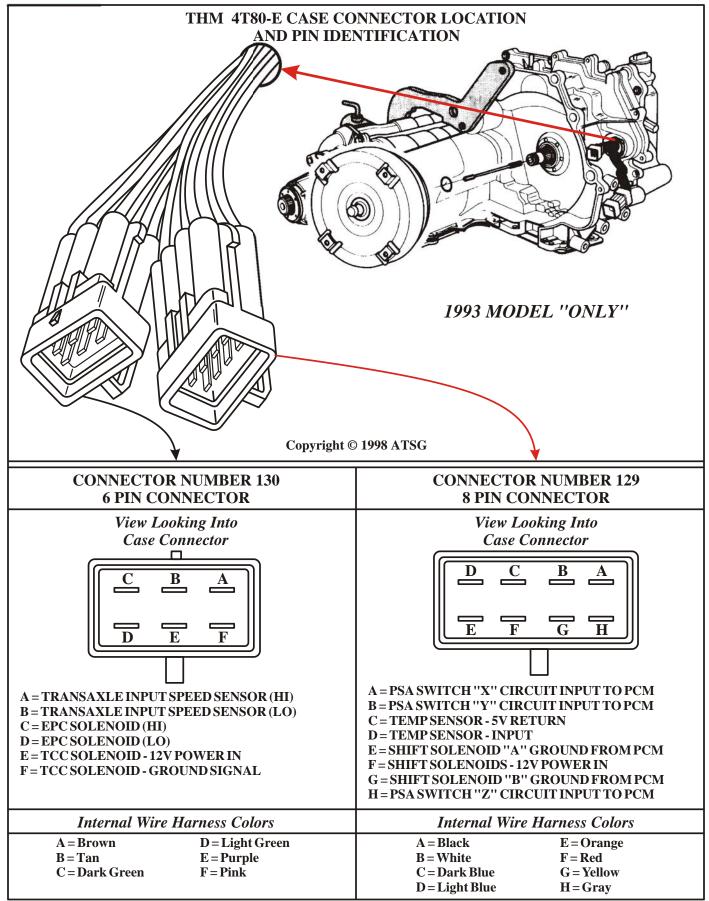


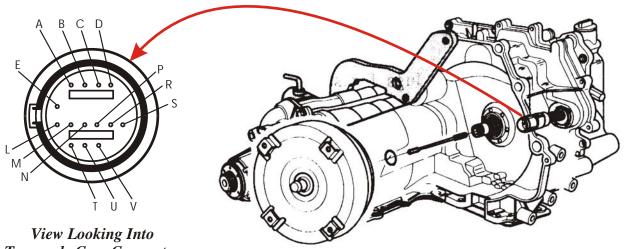
Figure 1
AUTOMATIC TRANSMISSION SERVICE GROUP







1994-UP THM 4T80-E CASE CONNECTOR LOCATION AND PIN IDENTIFICATION



Transaxle Case Connector

Ohms Resistance Chart				
Cavities	Component	Resistance @ 68°F	Resistance @ 190°F	
A-E	1-2 Shift Solenoid	20-30W	23-50W	
В-Е	2-3 Shift Solenoid	20-30W	23-50W	
T-U	TCC/PWM Solenoid	10-15W	11-25W	
C-D	EPC Solenoid	3-5W	5-6W	
S-V	Input Speed Sensor	1260-1540W		
M-L	TFT Sensor	3164-3867W	225-285W	
	Output Speed Sensor	1260-1540W		

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	CASE CONNECTOR PIN FUNCTION			
Pin	Internal Wire Color	Function		
A	Light Green	Ground signal from PCM for the 1-2 Shift Solenoid (A)		
В	Yellow/Black	Ground signal from PCM for the 2-3 Shift Solenoid (B)		
C	Purple	Electronic Pressure Control Solenoid, HIGH Control		
D	Light Blue	Electronic Pressure Control Solenoid, LOW Control		
E	Red	Transaxle Solenoid 12V Power In		
L	Brown	Transaxle Fluid Temperature (TFT) Sensor HIGH		
M	Gray	Transaxle Fluid Temperature (TFT) Sensor LOW		
N	Pink	Pressure Switch Assembly, Range Signal "X"		
P	Orange	Pressure Switch Assembly, Range Signal "Z"		
R	Dark Blue	Pressure Switch Assembly, Range Signal "Y"		
S	Light Green	Input Speed Sensor (ISS) signal HIGH		
T	Tan	Ground signal from PCM for the TCC/PWM Converter Clutch Solenoid		
U	White	TCC Solenoid Feed		
V	Purple	Input Speed Sensor (ISS) signal LOW		