

Technical Service Information

FORD AXODE/AX4S/AX4N TROUBLE CODES 628, P0741, OR P1744 STORED

COMPLAINT: Before and/or after rebuild, during the road test, the Malfunction Indicator Lamp (MIL)

begins to flash and the system faults to Failure Mode Effects Management (FMEM) which creates maximum line pressure. When code retrieval has been completed DTC 628 (TCC Slippage), P0741 (TCC Stuck Off) or P1744 (TCC Performance) may be stored. After diagnosis of the complete TCC system, no faults are found. When the codes are cleared, they

return on the next road test.

CAUSE: The cause may be, installation of the incorrect drive and/or driven sprockets, as shown in

Figure 1, or by installing an exchange unit that has the incorrect sprocket tooth count. It is the sprocket tooth count that determines the the target gear ratio that the PCM is looking for. Because the PCM is comparing the engine RPM signal to the Turbine Speed Signal (TSS), the PCM assumes that the converter clutch is slipping and stores the above trouble codes due

to an incorrect sprocket tooth count.

CORRECTION: Use the charts found in Figures 2 and 3, to ensure that the sprocket tooth count matches the

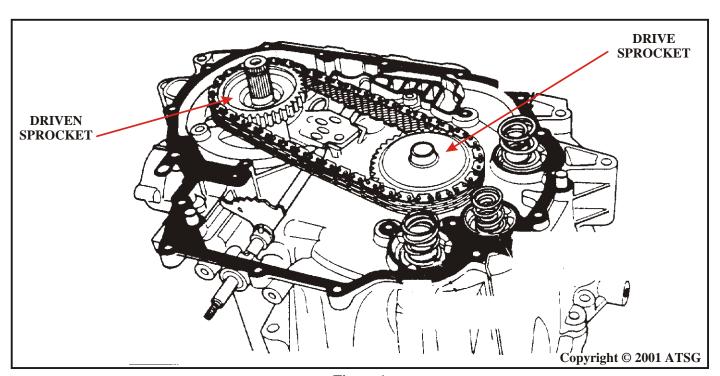
vehicle application. It is a good practice to tag exchange units with the tooth count recorded

to ensure that the correct transaxle for that vehicle is installed.

Special Note: To assist in diagnosing this problem, raise the front wheels off the ground and see if these

codes reset, with no load on the vehicle. If they do reset, the chances are that it is a gear

ratio problem and NOT converter clutch slippage.





Technical Service Information

AXODE/AX4S TRANSAXLE SPROCKET TO VEHICLE APPLICATION CHART		
YEAR / ENGINE / MODEL	DRIVE SPROCKET	DRIVEN SPROCKET
1991-95, 3.0L SHOC Taurus/Sable	37 Teeth	36 Teeth
1996-01, 3.0L SOHC Taurus/Sable	35 Teeth	38 Teeth
1996-00, 3.0L DOHC Taurus/Sable	35 Teeth	38 Teeth
1993-95, 3.2L Taurus SHO	35 Teeth	38 Teeth
1996, 3.4L Taurus SHO	35 Teeth	38 Teeth
1991-95, 3.8L Taurus/Sable Police Only	37 Teeth	36 Teeth
1991-99, 3.8L Taurus/Sable	38 Teeth	35 Teeth
1995-99, 3.0L Windstar	34 Teeth	39 Teeth
1995, 3.8L Windstar	37 Teeth	36 Teeth
1996-99, 3.8L Windstar	38 Teeth	39 Teeth
1991-94, 3.8L Lincoln Continental	37 Teeth	36 Teeth

Figure 2

AX4N TRANSAXLE SPROCKET TO VEHICLE APPLICATION CHART			
YEAR / ENGINE / MODEL	DRIVE SPROCKET	DRIVEN SPROCKET	
1995, 3.0L & 3.8L Taurus/Sable	37 Teeth	36 Teeth	
1996-97, 3.0L DOHC Taurus/Sable	35 Teeth	38 Teeth	
1996-97, 3.0L SOHC Taurus/Sable	35 Teeth	38 Teeth	
1996-99, 3.4L Taurus SHO	35 Teeth	38 Teeth	
1998-99, 3.0L DOHC Taurus/Sable	35 Teeth	38 Teeth	
1998-99, 3.0L SOHC Taurus/Sable	35 Teeth	38 Teeth	
1995-00, 3.8L Lincoln Continental	35 Teeth	38 Teeth	
1995-98, 4.6L Lincoln Continental	38 Teeth	36 Teeth	

Figure 3

Copyright © 2001 ATSG

02-15 Page 2 of 2