



Technical Service Information

FORD E40D TRANSMISSION OVER HEATING TORQUE CONVERTER DISCOLORATION CLUTCHES BURNT , BURNT FLUID

COMPLAINT: Some models of the E40D Transmission, with build dates before 3/30/92, and driven with heavy loads, low vehicle speed, and start/stop duty cycles, may exhibit transmission overheating, torque converter that is discolored or burnt, clutches burnt, and/or burnt fluid.

CAUSE: A number of PCM calibration changes have been implemented to improve the durability and reliability of the E40D transmission.

CORRECTION: Replace the Powertrain Control Module (PCM) using the calibration numbers and the part numbers found under "Service Information". You **MUST** get the calibration number from the vehicle that you are Working on to get the proper PCM.

CALIBRATION NUMBER MUST BE MATCHED TO THE PART NUMBER.

NOTE: 7.3L DIESEL ONLY

Ford Motor Co. recommends that an auxiliary cooler be added to all 7.3L Diesel units that do not already have one. The new PCM strategy will flash the Transmission Control Indicator Light (TCIL) when the vehicle experiences certain failure modes. The chart below outlines when the TCIL will be flashed and what codes will be set during the identified failure mode.

FAILURE MODE	CODES	TCIL STATE
EPC short to ground	99	Flash
EPC open circuit	99	Flash
MLP sensor	67	No
TOT over temperature	68	Flash
TOT open circuit	56	No
TOT short	66	No
FIPL/TP noisy	33	Flash
FIPL/TP short	53	Flash
FIPL/TP open circuit	63	Flash
FIPL/TP below FIPL low	43	Flash
MAP	22	No
RPM	14	Flash
VSS	29	Flash
TCC excessive slippage	62	Flash
Missed 1-2 shift	49	Flash
Missed 2-3 shift	59	Flash
Missed 3-4 shift	69	Flash
4x4 low input	47	No



Technical Service Information

SERVICE INFORMATION: (94-12-14)

POWERTRAIN CONTROL MODULE USAGE CHART				
ENGINE	VEHICLE	CALIBRATIONS AFFECTED	APPLICATION	PCM PART NUMBER
4.9L	Econoline F-Series (SWB)/Bronco F-Series (LWB) F-Series (SWB)/Bronco F-Series (LWB)	52K 52Q 52H 52J 52S 52R	49S/ALT/CAN CALIF. 49S/ALT/CAL CALIF. CALIF.	F3TZ-12A650-ABB F3TZ-12A650-ACB F3TZ-12A650-YB F3TZ-12A650-ZB F3TZ-12A650-AAB F3TZ-12A650-AEB
5.0L	F-Series/Bronco	1-54L-R10 2-54L-R00 2-54L-R10 2-54L-R12 1-54P-R10 1-54P-R11 2-54P-R00 2-54P-R10 2-54P-R12 1-54X-R10 1-54X-R11 2-54X-R00 2-54X-R10 2-54X-R12	49S/CAN CALIF. ALT	F2TZ-12A650-AHB F2TZ-12A650-AJB F2TZ-12A650-AKB
5.8L	F-250/350 E-250/350 F-150/Bronco (3.55) F-250 LD (4.10) F-150 (3.08)/F-250 LD (3.55) Bronco (3.08) E-150/E-250 LD F-150 (4.10) F-150 (4.10) E-150/E-250 LD F-150/Bronco (3.55) F-250 LD (4.10)	1-76A-R00 1-64E-R10 2-64E-R10 1-64H-R10 2-64H-R10 1-64J-R10 2-64J-R10 1-64K-R10 2-64K-R00 1-64M-R10 2-64M-R10 1-64P-R10 2-64P-R10 2-64R-R00 1-64R-R10 2-64S-R10 1-64R-R10	50S 49S/CAN/ALT CALIF.	F2TZ-12A650-PB F2TZ-12A650-CC F2TZ-12A650-MC F2TZ-12A650-RC F2TZ-12A650-LB F2TZ-12A650-BAC F2TZ-12A650-BBC F2TZ-12A650-DB F2TZ-12A650-BSB
7.5L	Econoline F-Series Super Duty	98E 98A 98B	50S 50S 50S	F2PZ-12A650-AWA F2PZ-12A650-AXA F2PZ-12A650-ANA
7.3L Diesel (Non Turbo Only)	F-Series/Econoline Super Duty Econoline, F-Series Super Duty	89J 89J 89X 89X	50S 50S ALT ALT	F4TZ-12B565-AA F4TZ-12B565-BA F4TZ-12B565-CA F4TZ-12B565-DA