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2004 FORD Excursion OEM Service and Repair Workshop Manual

Go to manual page

	(307-05B Automatic Transmission External Controls - 10-Speed Automatic Transmission – 10R80, Diagnosis and Testing).

No	GO to AH2

AH2 CHECK THE PCM (POWERTRAIN CONTROL MODULE) FOR DIAGNOSTIC TROUBLE CODES (DTCS)

- Ignition ON.
- Using a diagnostic scan tool, clear all diagnostic trouble codes (DTCs) from the PCM (powertrain control module) .
- Road test the vehicle.
- In a parking lot, shift the vehicle between Park, Drive and Reverse, allowing the vehicle to move in both directions.
- Using a diagnostic scan tool, carry out the KOEO (key on, engine off) and KOER (key on, engine running) PCM (powertrain control module) self-tests.

Is DTC (diagnostic trouble code) P27B2, P27B3, P27B4, P27B5 and/or P27B6 present in the PCM (powertrain control module) ?

Yes	GO to AH3

No	The fault is not present at this time. If any observable symptoms are present, REFER to: Diagnosis By Symptom (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Diagnosis and Testing).

AH3 RETRIEVE ALL DIAGNOSTIC TROUBLE CODES (DTCS) FROM THE PCM (POWERTRAIN CONTROL MODULE) SELF-TEST

- Ignition ON.
- Using a diagnostic scan tool, retrieve all diagnostic trouble codes (DTCs) from the PCM (powertrain control module) self-test.

Are any shift solenoid, speed sensor, TR (transmission range) sensor, clutch engagement or module communication diagnostic trouble codes (DTCs) present?

Yes	RESOLVE any shift solenoid, speed sensor, TR (transmission range) sensor, clutch engagement, or module communication diagnostic trouble codes (DTCs) first. REFER to the DTC (diagnostic

	(307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, General Procedures).

No	The concern is not present at this time. It might have been caused by a corrupted calibration.

PCM (powertrain control module)	P0706:00	Transmission Range Sensor "A" Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test C
PCM (powertrain control module)	P0707:00	Transmission Range Sensor "A" Circuit Low: No Sub Type Information	GO to Pinpoint Test C
PCM (powertrain control module)	P0708:00	Transmission Range Sensor "A" Circuit High: No Sub Type Information	GO to Pinpoint Test C
PCM (powertrain control module)	P0709:00	Transmission Range Sensor "A" Circuit Intermittent: No Sub Type Information	GO to Pinpoint Test C
PCM (powertrain control module)	P0710:00	Transmission Fluid Temperature Sensor "A" Circuit: No Sub Type Information	GO to Pinpoint Test B
PCM (powertrain control module)	P0711:00	Transmission Fluid Temperature Sensor "A" Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test B
PCM (powertrain control module)	P0712:00	Transmission Fluid Temperature Sensor "A" Circuit Low: No Sub Type Information	GO to Pinpoint Test B
PCM (powertrain control module)	P0713:00	Transmission Fluid Temperature Sensor "A" Circuit High: No Sub Type Information	GO to Pinpoint Test B
PCM (powertrain control module)	P0715:00	Input/Turbine Shaft Speed Sensor "A" Circuit: No Sub Type Information	GO to Pinpoint Test D
PCM (powertrain control module)	P0716:00	Input/Turbine Shaft Speed Sensor "A" Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test I
PCM (powertrain control module)	P0717:00	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal: No Sub Type Information	GO to Pinpoint Test D

PCM (powertrain control module)	P0736:00	Reverse Incorrect Ratio: No Sub Type Information	GO to Pinpoint Test R
PCM (powertrain control module)	P0740:00	Torque Converter Clutch Solenoid Circuit/Open: No Sub Type Information	GO to Pinpoint Test G
PCM (powertrain control module)	P0741:00	Torque Converter Clutch Solenoid Circuit Performance Stuck Off: No Sub Type Information	GO to Pinpoint Test S
PCM (powertrain control module)	P0743:00	Torque Converter Clutch Solenoid Circuit Electrical: No Sub Type Information	GO to Pinpoint Test G
PCM (powertrain control module)	P0748:00	Pressure Control Solenoid "A" Electrical: No Sub Type Information	GO to Pinpoint Test G
PCM (powertrain control module)	P0751:00	Shift Solenoid "A" Performance/Stuck Off: No Sub Type Information	GO to Pinpoint Test S
PCM (powertrain control module)	P0752:00	Shift Solenoid "A" Stuck On: No Sub Type Information	GO to Pinpoint Test T
PCM (powertrain control module)	P0753:00	Shift Solenoid "A" electrical: No Sub Type Information	GO to Pinpoint Test A
PCM (powertrain control module)	P0754:00	Shift Solenoid "A" Intermittent: No Sub Type Information	GO to Pinpoint Test A
PCM (powertrain control module)	P0756:00	Shift Solenoid "B" Performance/Stuck Off: No Sub Type Information	GO to Pinpoint Test S
PCM (powertrain control module)	P0757:00	Shift Solenoid "B" Stuck On: No Sub Type Information	GO to Pinpoint Test T

PCM (powertrain control module)	P0771:00	Shift Solenoid "E" Performance/Stuck Off: No Sub Type Information	GO to Pinpoint Test S
PCM (powertrain control module)	P0772:00	Shift Solenoid "E" Stuck On: No Sub Type Information	GO to Pinpoint Test T
PCM (powertrain control module)	P0773:00	Shift Solenoid "E" electrical: No Sub Type Information	GO to Pinpoint Test A
PCM (powertrain control module)	P0774:00	Shift Solenoid "E" Intermittent: No Sub Type Information	GO to Pinpoint Test A
PCM (powertrain control module)	P077D:00	Output Shaft Speed Sensor Circuit High: No Sub Type Information	GO to Pinpoint Test D
PCM (powertrain control module)	P0791:00	Intermediate Shaft Speed Sensor "A" Circuit: No Sub Type Information	GO to Pinpoint Test D
PCM (powertrain control module)	P0792:00	Intermediate Shaft Speed Sensor "A" Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test I
PCM (powertrain control module)	P0793:00	Intermediate Shaft Speed Sensor "A" Circuit No Signal: No Sub Type Information	GO to Pinpoint Test D
PCM (powertrain control module)	P0794:00	Intermediate Shaft Speed Sensor "A" Circuit Intermittent: No Sub Type Information	GO to Pinpoint Test D
PCM (powertrain control module)	P07BF:00	Input/Turbine Shaft Speed Sensor "A" Circuit Low: No Sub Type Information	GO to Pinpoint Test D
PCM (powertrain control module)	P07C0:00	Input/Turbine Shaft Speed Sensor "A" Circuit High: No Sub Type Information	GO to Pinpoint Test D

PCM (powertrain control module)	P0883:00	TCM Power Input Signal High: No Sub Type Information	GO to Pinpoint Test K
PCM (powertrain control module)	P0884:00	TCM Power Input Signal Intermittent: No Sub Type Information	GO to Pinpoint Test K
PCM (powertrain control module)	P0960:00	Pressure Control Solenoid "A" Control Circuit/Open: No Sub Type Information	GO to Pinpoint Test G
PCM (powertrain control module)	P0961:00	Pressure Control Solenoid "A" Control Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test G
PCM (powertrain control module)	P0962:00	Pressure Control Solenoid "A" Control Circuit Low: No Sub Type Information	GO to Pinpoint Test G
PCM (powertrain control module)	P0963:00	Pressure Control Solenoid "A" Control Circuit High: No Sub Type Information	GO to Pinpoint Test G
PCM (powertrain control module)	P0973:00	Shift solenoid "A" Control Circuit Low: No Sub Type Information	GO to Pinpoint Test A
PCM (powertrain control module)	P0974:00	Shift solenoid "A" Control Circuit High: No Sub Type Information	GO to Pinpoint Test A
PCM (powertrain control module)	P0976:00	Shift solenoid "B" Control Circuit Low: No Sub Type Information	GO to Pinpoint Test A
PCM (powertrain control module)	P0977:00	Shift solenoid "B" Control Circuit High: No Sub Type Information	GO to Pinpoint Test A
PCM (powertrain control module)	P0979:00	Shift solenoid "C" Control Circuit Low: No Sub Type Information	GO to Pinpoint Test A

PCM (powertrain control module)	P0998:00	Shift solenoid "F" Control Circuit Low: No Sub Type Information	GO to Pinpoint Test A
PCM (powertrain control module)	P0999:00	Shift solenoid "F" Control Circuit High: No Sub Type Information	GO to Pinpoint Test A
PCM (powertrain control module)	P0B0D:00	Electric/Auxiliary Transmission Fluid Pump Motor Control Module: No Sub Type Information	GO to Pinpoint Test F
PCM (powertrain control module)	P0C27:00	Electric/Auxiliary Transmission Fluid Pump "A" Motor Current Low: No Sub Type Information	GO to Pinpoint Test F
PCM (powertrain control module)	P0C28:00	Electric/Auxiliary Transmission Fluid Pump "A" Motor Current High: No Sub Type Information	GO to Pinpoint Test E
PCM (powertrain control module)	P0C29:00	Electric/Auxiliary Transmission Fluid Pump "A" Driver Circuit Performance: No Sub Type Information	GO to Pinpoint Test E
PCM (powertrain control module)	P0C2A:00	Electric/Auxiliary Transmission Fluid Pump "A" Motor Stalled: No Sub Type Information	GO to Pinpoint Test E
PCM (powertrain control module)	P0C2C:00	Electric Transmission Fluid Pump Control Module Feedback Signal Range/Performance: No Sub Type Information	GO to Pinpoint Test E
PCM (powertrain control module)	P0C2D:00	Electric Transmission Fluid Pump Control Module Feedback Signal Low: No Sub Type Information	GO to Pinpoint Test E
PCM (powertrain control module)	P0C2E:00	Electric Transmission Fluid Pump Control Module Feedback Signal High: No Sub Type Information	GO to Pinpoint Test E
PCM (powertrain control module)	P1636:00	Inductive Signature Chip Communication Error: No Sub Type Information	GO to Pinpoint Test Z

PCM (powertrain control module)	P26C3:00	Internal Control Module Transmission Range Sensor Performance: No Sub Type Information	GO to Pinpoint Test C
PCM (powertrain control module)	P2700:00	Transmission Friction Element "A" Apply Time Range Performance: No Sub Type Information	GO to Pinpoint Test AG
PCM (powertrain control module)	P2701:00	Transmission Friction Element "B" Apply Time Range Performance: No Sub Type Information	GO to Pinpoint Test AG
PCM (powertrain control module)	P2702:00	Transmission Friction Element "C" Apply Time Range Performance: No Sub Type Information	GO to Pinpoint Test AG
PCM (powertrain control module)	P2703:00	Transmission Friction Element "D" Apply Time Range Performance: No Sub Type Information	GO to Pinpoint Test AG
PCM (powertrain control module)	P2704:00	Transmission Friction Element "E" Apply Time Range Performance: No Sub Type Information	GO to Pinpoint Test AG
PCM (powertrain control module)	P2705:00	Transmission Friction Element "F" Apply Time Range Performance: No Sub Type Information	GO to Pinpoint Test AG
PCM (powertrain control module)	P2707:00	Shift Solenoid "F" Performance/Stuck Off: No Sub Type Information	GO to Pinpoint Test S
PCM (powertrain control module)	P2708:00	Shift Solenoid "F" Stuck On: No Sub Type Information	GO to Pinpoint Test T
PCM (powertrain control module)	P2709:00	Shift Solenoid "F" Electrical: No Sub Type Information	GO to Pinpoint Test A
PCM (powertrain control module)	P2710:00	Shift Solenoid "F" Intermittent: No Sub Type Information	GO to Pinpoint Test A

PCM (powertrain control module)	P27B3:00	Internal Control Module Transmission Gear Select Performance: No Sub Type Information	GO to Pinpoint Test AH
PCM (powertrain control module)	P27B4:00	Internal Control Module Transmission Gear Direction Control Performance: No Sub Type Information	GO to Pinpoint Test AH
PCM (powertrain control module)	P27B5:00	Internal Control Module Transmission Gear Ratio Control Performance: No Sub Type Information	GO to Pinpoint Test AH
PCM (powertrain control module)	P27B6:00	Internal Control Module Transmission Speed Sensor Performance: No Sub Type Information	GO to Pinpoint Test AH
PCM (powertrain control module)	P2801:00	Transmission Range Sensor "B" Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test C
PCM (powertrain control module)	P2802:00	Transmission Range Sensor "B" Circuit Low: No Sub Type Information	GO to Pinpoint Test C
PCM (powertrain control module)	P2803:00	Transmission Range Sensor "B" Circuit High: No Sub Type Information	GO to Pinpoint Test C
PCM (powertrain control module)	P2804:00	Transmission Range Sensor "B" Circuit Intermittent: No Sub Type Information	GO to Pinpoint Test C
PCM (powertrain control module)	P2805:00	Transmission Range Sensor "A"/ "B" Correlation: No Sub Type Information	GO to Pinpoint Test C
PCM (powertrain control module)	P2888:00	Park Lock/Pawl Actuator Circuit/Open: No Sub Type Information	GO to Pinpoint Test H
PCM (powertrain control module)	P2889:00	Park Lock/Pawl Actuator Circuit Low: No Sub Type Information	GO to Pinpoint Test H