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## 2008 FORD Explorer Sport Trac OEM Service and Repair Workshop Manual

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| | | | |
|---|---|---|---|
| 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 |

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| 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 |

| | | |
|---|---|---|
| P0758:00 | | P097B. Resolve the more specific DTC (diagnostic trouble code) first. |
| PCM (powertrain control module) P0759:00 | Shift Solenoid 'B' Intermittent: No Sub Type Information | This DTC (diagnostic trouble code) indicates a SSB (shift solenoid B) fault, but the fault did not last long enough to set a more specific DTC (diagnostic trouble code) . |
| PCM (powertrain control module) P0763:00 | Shift Solenoid 'C' Electrical: No Sub Type Information | This DTC (diagnostic trouble code) illuminates the wrench light in conjunction with P0779, P0980 and/or P097C. Resolve the more specific DTC (diagnostic trouble code) first. |
| PCM (powertrain control module) P0764:00 | Shift Solenoid 'C' Intermittent: No Sub Type Information | This DTC (diagnostic trouble code) indicates a SSC (shift solenoid C) fault, but the fault did not last long enough to set a more specific DTC (diagnostic trouble code) . |
| PCM (powertrain control module) P0768:00 | Shift Solenoid 'D' Electrical: No Sub Type Information | This DTC (diagnostic trouble code) illuminates the wrench light in conjunction with P0982, P0983 and/or P097D. Resolve the more specific DTC (diagnostic trouble code) first. |
| PCM (powertrain control module) P0769:00 | Shift Solenoid 'D' Intermittent: No Sub Type Information | This DTC (diagnostic trouble code) indicates a SSD (shift solenoid D) fault, but the fault did not last long enough to set a more specific DTC (diagnostic trouble code) . |
| PCM (powertrain control module) P0773:00 | Shift Solenoid 'E' Electrical: No Sub Type Information | This DTC (diagnostic trouble code) illuminates the wrench light in conjunction with P0985, P0986 and/or P097E. Resolve the more specific DTC (diagnostic trouble code) first. |
| PCM (powertrain control module) P0774:00 | Shift Solenoid 'E' Intermittent: No Sub Type Information | This DTC (diagnostic trouble code) indicates a SSE (shift solenoid E) fault, but the fault did not last long enough to set a more specific DTC (diagnostic trouble code) . |
| PCM (powertrain control module) P0973:00 | Shift Solenoid 'A' Control Circuit Low: No Sub Type Information | This DTC (diagnostic trouble code) indicates a short to ground in the SSA (shift solenoid A) circuit. |

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|---|---|---|
| PCM (powertrain control module) P0980:00 | Shift Solenoid 'C' Control Circuit High: No Sub Type Information | This DTC (diagnostic trouble code) indicates a short to power in the SSC (shift solenoid C) circuit. |
| PCM (powertrain control module) P0982:00 | Shift Solenoid 'D' Control Circuit Low: No Sub Type Information | This DTC (diagnostic trouble code) indicates a short to ground in the SSD (shift solenoid D) circuit. |
| PCM (powertrain control module) P0983:00 | Shift Solenoid 'D' Control Circuit High: No Sub Type Information | This DTC (diagnostic trouble code) indicates a short to power in the SSD (shift solenoid D) circuit. |
| PCM (powertrain control module) P0985:00 | Shift Solenoid 'E' Control Circuit Low: No Sub Type Information | This DTC (diagnostic trouble code) indicates a short to ground in the SSE (shift solenoid E) circuit. |
| PCM (powertrain control module) P0986:00 | Shift Solenoid 'E' Control Circuit High: No Sub Type Information | This DTC (diagnostic trouble code) indicates a short to power in the SSE (shift solenoid E) circuit. |
| PCM (powertrain control module) P0998:00 | Shift Solenoid 'F' Control Circuit Low: No Sub Type Information | This DTC (diagnostic trouble code) indicates a short to ground in the SSF (shift solenoid F) circuit. |
| PCM (powertrain control module) P0999:00 | Shift Solenoid 'F' Control Circuit High: No Sub Type Information | This DTC (diagnostic trouble code) indicates a short to power in the SSF (shift solenoid F) circuit. |
| PCM (powertrain control module) P2709:00 | Shift Solenoid 'F' Electrical: No Sub Type Information | This DTC (diagnostic trouble code) illuminates the wrench light in conjunction with P0998, P0999 and/or P097F. Resolve the more specific DTC (diagnostic trouble code) first. |
| PCM (powertrain control module) P2710:00 | Shift Solenoid 'F' Intermittent: No Sub Type Information | This DTC (diagnostic trouble code) indicates a SSF (shift solenoid F) fault, but the fault did not last long enough to set a more specific DTC (diagnostic trouble code) . |

**Possible Sources**

- Connectors damaged or pushed-out terminals, corrosion, loose wires and missing or damaged seals

| | | |
|---|---|---|
| C168A-9 | Ω | Ground |

**Is the resistance greater than 10,000 ohms?**

| | |
|---|---|
| **Yes** | GO to A3 |

| | |
|---|---|
| **No** | REPAIR the short to ground. |

**A3 CHECK THE SOLENOID CONTROL CIRCUIT FOR AN OPEN**

- Measure the resistance of the suspect solenoid control circuit using the following chart:

| Positive Lead | Measurement / Action | Negative Lead |
|---|---|---|
| SSA (shift solenoid A) C168A-14 | Ω | C175T-35 |
| SSF (shift solenoid F) C168A-23 | Ω | C175T-34 |
| SSC (shift solenoid C) C168A-16 | Ω | C175T-18 |
| SSB (shift solenoid B) C168A-15 | Ω | C175T-5 |
| SSE (shift solenoid E) C168A-22 | Ω | C175T-4 |
| SSD (shift solenoid D) C168A-21 | Ω | C175T-48 |

| | |
|---|---|
| **Yes** | GO to A5 |

| | |
|---|---|
| **No** | REPAIR the short to ground. |

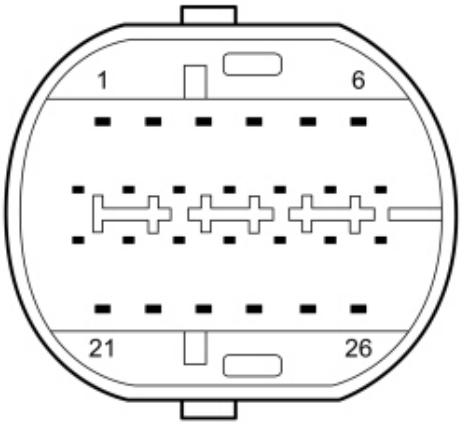
**A5 CHECK THE SOLENOID CONTROL CIRCUIT FOR A SHORT TO POWER**

- Ignition ON.
- Measure the voltage present on the suspect solenoid control circuit using the following chart:

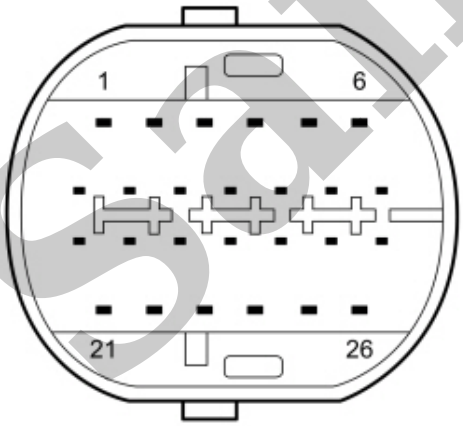
| Positive Lead | Measurement / Action | Negative Lead |
|---|---|---|
| SSA (shift solenoid A) C168A-14 | V | Ground |
| SSF (shift solenoid F) C168A-23 | V | Ground |
| SSC (shift solenoid C) C168A-16 | V | Ground |
| SSB (shift solenoid B) C168A-15 | V | Ground |
| SSE (shift solenoid E) C168A-22 | V | Ground |
| SSD (shift solenoid D) C168A-21 | V | Ground |

**Is any voltage present on the suspect circuit?**

| | |
|---|---|
| **Yes** | REPAIR the short to power. |

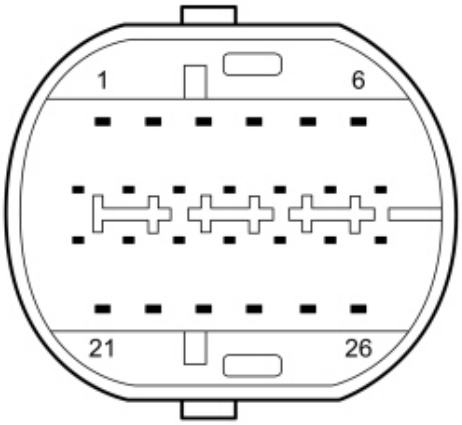
| | | |
|---|---|---|
|  <br>E275612<br>Transmission component side, pin 9 | Ω | C1848-1 |

**SSC (shift solenoid C)**

| Positive Lead | Measurement / Action | Negative Lead |
|---|---|---|
|  <br>E275612<br>Transmission component side, pin 9 | Ω | C1845-1 |

**SSB (shift solenoid B)**

| Positive Lead | Measurement / Action | Negative Lead |
|---|---|---|

| | | |
|---|---|---|
|  <br>E275612<br>Transmission component side, pin 9 | Ω | C1846-1 |

**Is the resistance less than 3 ohms on the suspect circuit?**

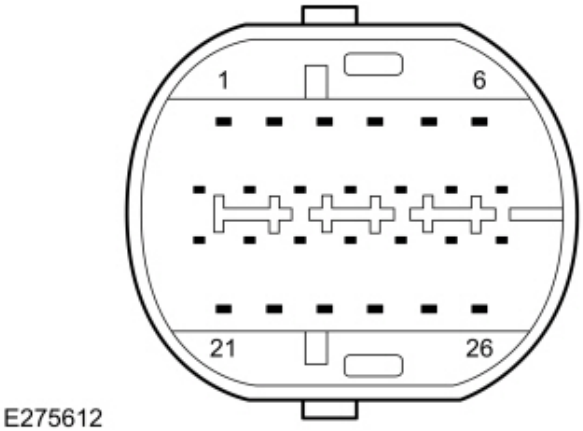
| | |
|---|---|
| **Yes** | GO to A7 |

| | |
|---|---|
| **No** | INSTALL a new transmission internal wiring harness (both pieces).<br>REFER to: Transmission Internal Wiring Harness (307-01A Automatic Transmission - 10-Speed Automatic Transmission – 10R80, Removal and Installation). |

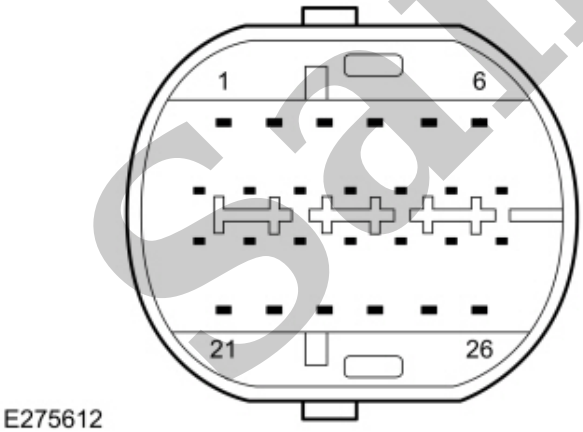
**A7 CHECK THE TRANSMISSION INTERNAL WIRING HARNESS SOLENOID POWER CIRCUIT FOR A SHORT TO GROUND**

- Inspect the transmission internal wiring harness for pinched, chafing, or bare wires.
- Measure:

| Positive Lead | Measurement / Action | Negative Lead |
|---|---|---|

| | | |
|---|---|---|
|  <br>Transmission component side, pin 14 | Ω | C1843-2 |

**SSF (shift solenoid F)**

| Positive Lead | Measurement / Action | Negative Lead |
|---|---|---|
|  <br>Transmission component side, pin 23 | Ω | C1848-2 |

**SSC (shift solenoid C)**

| Positive Lead | Measurement / Action | Negative Lead |
|---|---|---|