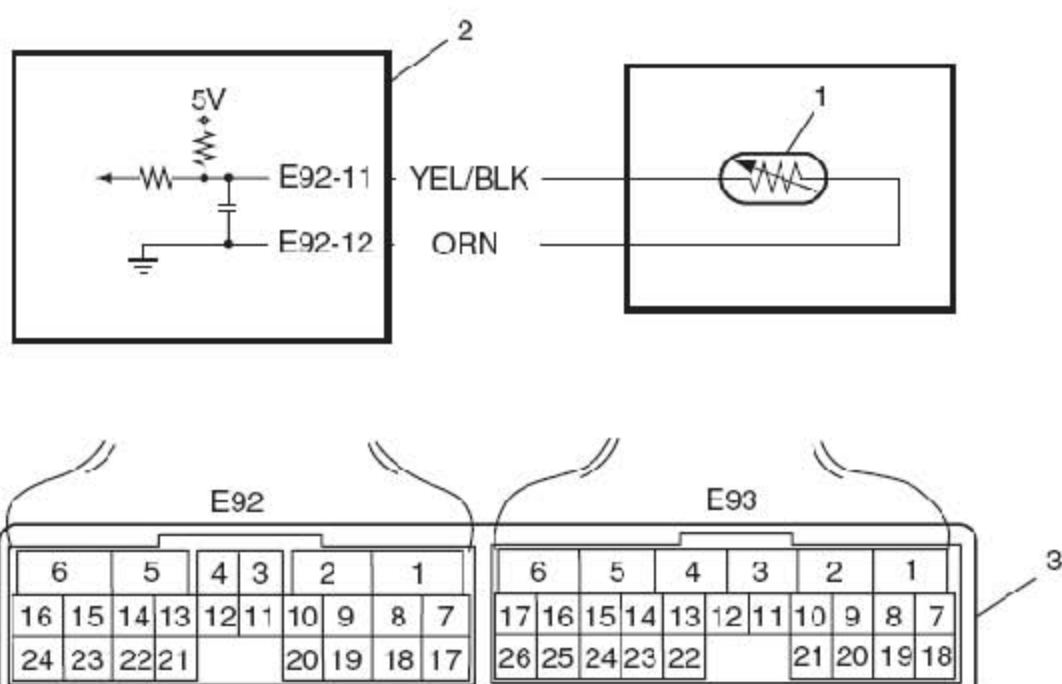


# P0712 Transmission Fluid Temperature Sensor "A" Circuit Low

## Wiring Diagram



1. Transmission fluid temperature sensor	3. Terminal arrangement of TCM connector (viewed from harness side)
2. TCM	

## DTC Detecting Condition and Trouble Area

DTC Detecting Condition	Trouble Area
Transmission temperature sensor terminal voltage is less than 0.05 V for 10 seconds or more after ignition switch ON.  (1 driving cycle detection logic)	<ul style="list-style-type: none"> <li>• Transmission fluid temperature sensor or its circuit.</li> <li>• TCM</li> </ul>

## DTC Confirmation Procedure

- 1) Connect scan tool to DLC with ignition switch OFF.
- 2) Clear DTCs in TCM and ECM memories by using scan tool.
- 3) Start engine.
- 4) Keep engine running at idle speed for 1 minute or more.
- 5) Check DTC, pending DTC and freeze-frame data.

### DTC Troubleshooting

Step	Action	Yes	No
1	Was "A/T System Check" performed?	Go to Step 2.	Go to "A/T System Check".
2	<p><b>Check transmission fluid temperature sensor A circuit for ground short</b></p> <p>1) Turn ignition switch OFF. 2) Disconnect TCM connectors from TCM. 3) Check for proper connection to transmission fluid temperature sensor at terminal "E92-11" and "E92-12". 4) If OK, check continuity between terminal "E92-11" of disconnected harness side TCM connector and ground. Is continuity indicated?</p>	Transmission fluid temperature sensor circuit is shorted to ground. If circuit is OK, go to Step 3.	Go to Step 3.
3	<p><b>Inspection transmission fluid temperature sensor 1) Inspection transmission fluid temperature sensor referring to "Transmission Fluid Temperature Sensor Inspection: ". Is result satisfactory?</b></p>	Intermittent trouble or faulty TCM. Check for intermittent trouble referring to "Intermittent and Poor Connection Inspection: in Section 00". If OK, substitute a known-good TCM and recheck.	Replace valve body harness including transmission fluid temperature sensor referring to "Transmission Fluid Temperature Sensor Removal and Installation: ".