

P2123: Pedal Position Sensor (Main) Circuit High Input

Wiring Diagram

Refer to "DTC P2122: Pedal Position Sensor (Main) Circuit Low Input".

DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
Output voltage of APP sensor (main) is higher than specified value. (1 driving detection logic)	<ul style="list-style-type: none">• APP sensor (main) circuit• APP sensor assembly• ECM• Incorrect mounting of APP sensor assembly

DTC Confirmation Procedure

- 1) With ignition switch turned OFF, connect scan tool.
- 2) Turn ON ignition switch and clear DTC using scan tool.
- 3) Keep the accelerator pedal at idle position for 2 seconds.
- 4) Keep the accelerator pedal at fully depressed position for 2 seconds.
- 5) Repeat Step 3) and 4) for 3 times.
- 6) Check DTC.

DTC Troubleshooting

Step	Action	Yes	No
1	Was "Engine and Emission Control System Check" performed?	Go to Step 2.	Go to "Engine and Emission Control System Check".
2	APP sensor assembly mounting check 1) Check that APP sensor assembly has been mounted to vehicle body properly (no pinched floor carpet, etc.). Is it OK?	Go to Step 3.	Reinstall APP sensor assembly properly referring to "Accelerator Pedal Position (APP) Sensor Assembly Removal and Installation in Section 1C".
3	APP sensor (main) and its circuit check 1) Connect scan tool to DLC with ignition switch turned OFF. 2) Turn ON ignition switch, check "APP Sensor 1 Volt" displayed on scan tool. Is displayed voltage 4.76 V or more?	Go to Step 4.	Intermittent trouble. Check for intermittent referring to "Intermittent and Poor Connection Inspection in Section 00".
4	ECM voltage check 1) Disconnect connector from APP sensor assembly with ignition switch turned OFF. 2) Check for proper connection to APP sensor assembly at "BRN", "GRN" and "BLU" wire terminals. 3) If OK, measure voltage between "BRN" wire terminal of APP sensor assembly connector and vehicle body ground with ignition switch turned ON. Is voltage 4 – 6 V?	Go to Step 6.	Go to Step 5.

Step	Action	Yes	No
5	<p>Wire harness check</p> <p>1) Disconnect connectors from ECM with ignition switch turned OFF.</p> <p>2) Check for proper connection of ECM connector at "E01-35" terminal.</p> <p>3) If OK, measure voltage between "E01-35" terminal of ECM connector and engine ground with ignition switch turned ON.</p> <p>Is voltage 0 V?</p>	Substitute a known-good ECM and recheck.	"BRN" wire is shorted to power circuit.
6	<p>Wire harness check</p> <p>1) Disconnect connectors from ECM with ignition switch turned OFF.</p> <p>2) Check for proper connection of ECM connector at "E01-35", "E01-37" and "E01-34" terminals.</p> <p>3) If OK, measure resistance between "GRN" wire terminal and each "BRN", "RED" wire terminals of APP sensor assembly connector.</p> <p>Is each resistance infinity?</p>	Go to Step 7.	"GRN" wire is shorted to "BRN" wire and/or "RED" wire.
7	<p>Wire harness check</p> <p>1) Turn ON ignition switch.</p> <p>2) Measure voltage between "E01-37" terminal of ECM connector and engine ground.</p> <p>Is voltage 0 V?</p>	Go to Step 8.	"GRN" wire is shorted to power circuit.
8	<p>Ground circuit check</p> <p>1) Connect connectors to ECM with ignition switch turned OFF.</p> <p>2) Measure resistance between "BLU" wire terminal of APP sensor assembly connector and vehicle body ground.</p> <p>Is resistance below 5 Ω?</p>	Go to Step 10.	Go to Step 9.

Step	Action	Yes	No
9	Ground circuit check 1) Remove ECM from its bracket with ECM connectors connected. 2) Check for proper connection of ECM connector at "E01-52" terminal. 3) If OK, measure resistance between "E01-52" terminal of ECM connector and engine ground. Is resistance below 5 Ω ?	"BLU" wire is open or high resistance circuit.	Faulty ECM ground circuit. If circuit is OK, substitute a known-good ECM and recheck.
10	APP sensor assembly check 1) Check APP sensor (main) referring to "Accelerator Pedal Position (APP) Sensor Assembly Inspection in Section 1C". Is output voltage within specified value?	Substitute a known-good ECM and recheck.	Replace APP sensor assembly.

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