

P0107: Manifold Absolute Pressure Circuit Low Input

DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
Manifold absolute pressure sensor output voltage is lower than specified value for specified time. (1 driving cycle detection logic)	<ul style="list-style-type: none"> • Manifold absolute pressure sensor circuit • Manifold absolute pressure sensor • A/C refrigerant pressure sensor (if equipped with A/C) •ECM

DTC Confirmation Procedure

- 1) Connect scan tool to DLC with ignition switch turned OFF.
- 2) Turn ON ignition switch and clear DTC using scan tool and warm up engine completely.
- 3) Run engine at idle speed for 1 min.
- 4) Check DTC and pending 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	MAP sensor and its circuit check 1) Connect scan tool to DLC with ignition switch turned OFF. 2) Turn ON ignition switch. 3) Check intake manifold pressure displayed on scan tool. Is it 0 kPa (0 in.Hg)?	Go to Step 3.	Intermittent trouble. Check for intermittent referring to "Intermittent and Poor Connection Inspection in Section 00".

Step	Action	Yes	No
3	<p>MAP sensor power supply voltage check</p> <p>1) Disconnect connector from MAP sensor with ignition switch turned OFF.</p> <p>2) Check for proper connection of MAP sensor at "GRY/RED", "RED/BLK" and "GRY/BLU" wire terminals.</p> <p>3) Turn ON ignition switch, measure voltage between engine ground and "GRY/RED" wire terminal of MAP sensor connector.</p> <p>Is voltage 4 – 6 V?</p>	Go to Step 5.	Go to Step 4.
4	<p>MAP sensor power supply circuit check</p> <p>1) Disconnect connectors from A/C refrigerant pressure sensor (if equipped with A/C) with ignition switch turned OFF.</p> <p>2) Turn ON ignition switch, measure voltage between engine ground and "GRY/RED" wire terminal of MAP sensor connector.</p> <p>Is voltage 4 – 6 V?</p>	Faulty A/C refrigerant pressure sensor (if equipped with A/C).	<p>"GRY/RED" wire is shorted to ground circuit.</p> <p>If wires are OK, substitute a known-good ECM and recheck.</p>
5	<p>MAP sensor signal circuit check</p> <p>1) Measure voltage between "RED/BLK" wire terminal of MAP sensor connector and engine ground.</p> <p>Is voltage 4 – 6 V?</p>	Go to Step 7.	Go to Step 6.
6	<p>MAP sensor signal circuit check</p> <p>1) Disconnect connectors from ECM with ignition switch turned OFF.</p> <p>2) Measure resistance between "C01-53" terminal of ECM connector and vehicle body ground.</p> <p>Is resistance infinity?</p>	Go to Step 7.	"RED/BLK" wire is shorted to ground circuit.

Step	Action	Yes	No
7	MAP sensor output signal check 1) Check MAP sensor according to "Manifold Absolute Pressure (MAP) Sensor Inspection (If Equipped) in Section 1C". Is it in good condition?	Substitute a known-good ECM and recheck.	Faulty MAP sensor.

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