

DTC P0107 [LF]

B3E010201084W08

DTC P0107	MAP sensor circuit low input
DETECTION CONDITION	<ul style="list-style-type: none"> The PCM monitors the input voltage from the MAP sensor when the intake air temperature is above 10 °C {50 °F}. If the input voltage at PCM terminal 2AL is below 0.1V, the PCM determines that the MAP sensor circuit has a malfunction. Diagnostic support note This is a continuous monitor (CCM). The MIL illuminates if the PCM detects the above malfunction condition during first drive cycle. PENDING CODE is available if the PCM detects the above malfunction condition. FREEZE FRAME DATA is available. The DTC is stored in the PCM memory.
POSSIBLE CAUSE	<ul style="list-style-type: none"> MAP sensor malfunction Connector or terminal malfunction Short to ground in wiring harness between MAP sensor terminal D and PCM terminal 2AL Open circuit in wiring harness between MAP sensor terminal C and PCM terminal 2W MAP sensor signal circuit and MAP sensor ground circuit are shorted each other PCM malfunction
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>MAP SENSOR</p> </div> </div>	

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED <ul style="list-style-type: none"> Has FREEZE FRAME DATA been 	Yes Go to the next step.
		No Record the FREEZE FRAME DATA on the repair order, then go to the next step.

	recorded?		
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY <ul style="list-style-type: none"> Verify related service repair information availability. Is any related repair information available? 	Yes	Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	VERIFY MAP PID WHEN MAP SENSOR CONNECTOR IS DISCONNECTED <ul style="list-style-type: none"> Disconnect the MAP sensor connector. Connect the WDS or equivalent to DLC-2. Access MAP PID. Is the voltage above 4.9 V? 	Yes	Go to the next step.
		No	Go to Step 5.
4	INSPECT POWER SUPPLY CIRCUIT VOLTAGE AT MAP SENSOR CONNECTOR Note <ul style="list-style-type: none"> If DTC P0122 and P2228 are also retrieved with P0107, go to CONSTANT VOLTAGE troubleshooting procedure. Turn the ignition switch to the ON position (Engine off). Measure the voltage between MAP sensor terminal C (wiring harness-side) and body ground. Is the voltage within 4.5- 5.5 V? 	Yes	Inspect for poor connection at MAP sensor terminal C (wiring harness-side). • Repair or replace the terminal if necessary. • If there is no malfunction, replace the MAP sensor. Then go to Step 7.
		No	Inspect for open circuit in wiring harness between PCM terminal 2W (wiring harness-side) and MAP sensor terminal C (wiring harness-side). Repair or replace suspected wiring harness, then go to Step 7.
5	INSPECT MAP SENSOR SIGNAL CIRCUIT FOR SHORT TO GROUND <ul style="list-style-type: none"> Turn the ignition switch off. Disconnect the PCM connector. Inspect continuity between MAP sensor terminal D (wiring harness-side) and body ground. Is there continuity? 	Yes	Repair or replace the wiring harness, then go to Step 7.
		No	Go to the next step.
6	INSPECT MAP SENSOR SIGNAL AND GROUND CIRCUIT FOR SHORT EACH OTHER <ul style="list-style-type: none"> Inspect for continuity between MAP sensor terminals D and A (wiring harness-side). Is there continuity? 	Yes	Repair or replace the wiring harness, then go to the next step.
		No	Go to the next step.
7	VERIFY TROUBLESHOOTING OF DTC P0107 COMPLETED <ul style="list-style-type: none"> Make sure to reconnect all disconnected connectors. Turn the ignition switch to the ON position (Engine off). Clear the DTC from the memory using the WDS or equivalent. Start the engine. Is the same DTC present? 	Yes	Replace the PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [LF] .)
		No	Go to the next step.
8	VERIFY AFTER REPAIR PROCEDURE <ul style="list-style-type: none"> Perform the "After Repair Procedure". (See AFTER REPAIR PROCEDURE [LF].) Are any DTC present? 	Yes	Go to the applicable DTC troubleshooting. (See DTC TABLE [LF] .)
		No	Troubleshooting completed.