

DTC P0098:00	IAT sensor No.2 circuit high input
DETECTION CONDITION	<ul style="list-style-type: none"> If the PCM detects that the IAT sensor No.2 voltage at the PCM terminal 1CE is 4.96 V or more for 5 s, the PCM determines that the IAT sensor No.2 circuit voltage is high. <p>Diagnostic support note</p> <ul style="list-style-type: none"> This is a continuous monitor (CCM). The check engine light illuminates if the PCM detects the above malfunction condition during the first drive cycle. FREEZE FRAME DATA (Mode 2)/Snapshot data is available. The DTC is stored in the PCM memory.
FAIL-SAFE FUNCTION	—
POSSIBLE CAUSE	<ul style="list-style-type: none"> MAP sensor/IAT sensor No.2 connector or terminals malfunction PCM connector or terminals malfunction IAT sensor No.2 malfunction Short to power supply in wiring harness between MAP sensor/IAT sensor No.2 terminal B and PCM terminal 1CE Open circuit in wiring harness between the following terminals: <ul style="list-style-type: none"> MAP sensor/IAT sensor No.2 terminal B—PCM terminal 1CE MAP sensor/IAT sensor No.2 terminal A—PCM terminal 1BX PCM malfunction
<div style="text-align: center;"> <p>IAT SENSOR NO.2 (MAP SENSOR/IAT SENSOR NO.2)</p> <p>MAP SENSOR/IAT SENSOR NO.2 WIRING HARNESS-SIDE CONNECTOR</p> <p>PCM</p> <p>PCM WIRING HARNESS-SIDE CONNECTOR</p> </div>	

Diagnostic Procedure

STEP	INSPECTION		ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/ SNAPSHOT DATA HAS BEEN RECORDED	Yes	Go to the next step.
	<ul style="list-style-type: none"> Has the FREEZE FRAME DATA (Mode 2)/ snapshot data been recorded? 	No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data on the repair order, then go to the next step.

STEP	INSPECTION		ACTION
2	VERIFY RELATED SERVICE INFORMATION AVAILABILITY <ul style="list-style-type: none"> Verify related Service Information availability. Is any related Service Information available? 	Yes	Perform repair or diagnosis according to the available Service Information.
		No	Go to the next step.
3	CLASSIFY IAT SENSOR NO.2 MALFUNCTION OR WIRING HARNESS MALFUNCTION <ul style="list-style-type: none"> Access the IAT2 PID using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0].) Verify the IAT2 PID value. Is the IAT2 PID value 5 V or B+? 	Yes	Go to Step 7.
		No	Go to the next step.
4	INSPECT MAP SENSOR/IAT SENSOR NO.2 CONNECTOR CONDITION <ul style="list-style-type: none"> Switch the ignition to off. Disconnect the MAP sensor/IAT sensor No.2 connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	Yes	Repair or replace the connector and/or terminals, then go to Step 10.
		No	Go to the next step.
5	INSPECT PCM CONNECTOR CONDITION <ul style="list-style-type: none"> Disconnect the PCM connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	Yes	Repair or replace the connector and/or terminals, then go to Step 10.
		No	Go to the next step.
6	INSPECT IAT SENSOR NO.2 <ul style="list-style-type: none"> Inspect the IAT sensor No.2. (See INTAKE AIR TEMPERATURE (IAT) SENSOR INSPECTION [SKYACTIV-G 2.0].) Is there any malfunction? 	Yes	Replace the MAP sensor/IAT sensor No.2, then go to Step 10. (See MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR/INTAKE AIR TEMPERATURE (IAT) SENSOR NO.2 REMOVAL/INSTALLATION [SKYACTIV-G 2.0].)
		No	Go to Step 10.
7	CLASSIFY IAT SENSOR NO.2 SIGNAL CIRCUIT MALFUNCTION OR IAT SENSOR NO.2 GROUND CIRCUIT MALFUNCTION <ul style="list-style-type: none"> Switch the ignition to off. Disconnect the MAP sensor/IAT sensor No.2 connector. Access the IAT2 PID using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0].) Verify the IAT2 PID value. Is the IAT2 PID value 5 V or B+? 	Yes	Go to the next step.
		No	Go to Step 9.
8	INSPECT IAT SENSOR NO.2 SIGNAL CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> Verify that the MAP sensor/IAT sensor No.2 connector is disconnected. Switch the ignition to off. Disconnect the PCM connector. Inspect for continuity between MAP sensor/IAT sensor No.2 terminal B (wiring harness-side) and PCM terminal 1CE (wiring harness-side). Is there continuity? 	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to Step 10.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 10.
9	INSPECT IAT SENSOR NO.2 GROUND CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> Verify that the MAP sensor/IAT sensor No.2 connector is disconnected. Switch the ignition to off. Disconnect the PCM connector. Inspect for continuity between MAP sensor/IAT sensor No.2 terminal A (wiring harness-side) and PCM terminal 1BX (wiring harness-side). Is there continuity? 	Yes	Replace the MAP sensor/IAT sensor No.2, then go to the next step. (See MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR/INTAKE AIR TEMPERATURE (IAT) SENSOR NO.2 REMOVAL/INSTALLATION [SKYACTIV-G 2.0].)
		No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.

STEP	INSPECTION		ACTION
10	VERIFY DTC TROUBLESHOOTING COMPLETED <ul style="list-style-type: none"> • Make sure to reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0].) • Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-G 2.0].) • Is the same DTC present? 	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0].) Go to the next step.
		No	Go to the next step.
11	VERIFY AFTER REPAIR PROCEDURE <ul style="list-style-type: none"> • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0].) • Are any DTCs present? 	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0].)
		No	DTC troubleshooting completed.