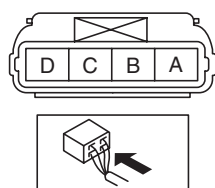
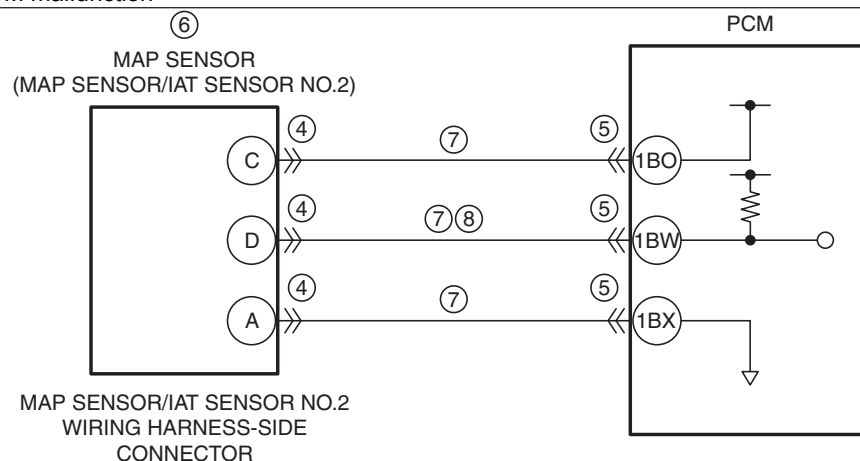
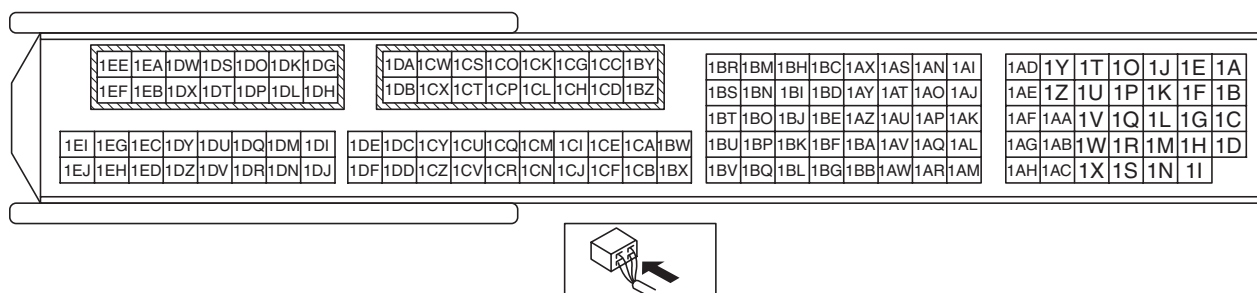


| | |
|--------------------------------|---|
| DTC P0108:00 | MAP sensor circuit high input |
| DETECTION CONDITION | <ul style="list-style-type: none"> The PCM monitors the input voltage from the MAP sensor. If the input voltage at the PCM terminal 1BW is above 4.89 V for 5 s, the PCM determines that the MAP sensor circuit has a malfunction. <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 | <ul style="list-style-type: none"> Estimates MAP using MAF sensor and engine speed. Restricts the upper limit of the engine speed. Inhibits the evaporative purge control. |
| POSSIBLE CAUSE | <ul style="list-style-type: none"> MAP sensor/IAT sensor No.2 connector or terminals malfunction PCM connector or terminals malfunction MAP sensor malfunction Short to power supply in wiring harness between MAP sensor/IAT sensor No.2 terminal D and PCM terminal 1BW Open circuit in wiring harness between the following terminals: <ul style="list-style-type: none"> MAP sensor/IAT sensor No.2 terminal D—PCM terminal 1BW MAP sensor/IAT sensor No.2 terminal A—PCM terminal 1BX MAP sensor/IAT sensor No.2 terminal C—PCM terminal 1BO PCM malfunction |



PCM WIRING HARNESS-SIDE CONNECTOR



Diagnostic Procedure

| STEP | INSPECTION | | ACTION |
|------|---|-----|--|
| 1 | VERIFY FREEZE FRAME DATA (MODE 2)/SNAPSHOT DATA HAS BEEN RECORDED <ul style="list-style-type: none"> Has the FREEZE FRAME DATA (Mode 2)/snapshot data been recorded? | Yes | Go to the next step. |
| | | No | Record the FREEZE FRAME DATA (Mode 2)/snapshot data on the repair order, then go to the next step. |
| 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. • If the vehicle is not repaired, go to the next step. |
| | | No | Go to the next step. |
| 3 | CLASSIFY MAP SENSOR MALFUNCTION OR WIRING HARNESS MALFUNCTION <ul style="list-style-type: none"> Access the MAP PID using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0].) Verify the MAP PID value. Is the MAP PID value 5 V or B+? | Yes | When the voltage is 5V <ul style="list-style-type: none"> Go to Step 7. When the voltage is B+ <ul style="list-style-type: none"> Go to Step 8. |
| | | 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 9. |
| | | 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 9. |
| | | No | Go to the next step. |
| 6 | INSPECT MAP SENSOR <ul style="list-style-type: none"> Reconnect all disconnected connectors. Inspect the MAP sensor. (See MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR INSPECTION [SKYACTIV-G 2.0].) Is there any malfunction? | Yes | Replace the MAP sensor/IAT sensor No.2, then go to Step 9. (See MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR/INTAKE AIR TEMPERATURE (IAT) SENSOR NO.2 REMOVAL/INSTALLATION [SKYACTIV-G 2.0].) |
| | | No | Go to Step 9. |
| 7 | INSPECT MAP SENSOR/IAT SENSOR NO.2 CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> Switch the ignition to off. Disconnect the MAP sensor/IAT sensor No.2 connector and PCM connector. Inspect for continuity between the following terminals (wiring harness-side): <ul style="list-style-type: none"> MAP sensor/IAT sensor No.2 terminal D—PCM terminal 1BW MAP sensor/IAT sensor No.2 terminal A—PCM terminal 1BX MAP sensor/IAT sensor No.2 terminal C—PCM terminal 1BO Is there continuity? | Yes | Replace the MAP sensor/IAT sensor No.2, then go to Step 9. (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 Step 9. |
| 8 | INSPECT MAP SENSOR/IAT SENSOR NO.2 CIRCUIT FOR SHORT TO POWER SUPPLY <ul style="list-style-type: none"> Switch the ignition to off. Disconnect the MAP sensor/IAT sensor No.2 connector and PCM connector. Measure the voltage at the MAP sensor/IAT sensor No.2 terminal D (wiring harness-side). Is there any voltage? | Yes | Repair or replace the wiring harness for a possible short to power supply, then go to the next step. |
| | | No | 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].) |

| STEP | INSPECTION | ACTION | |
|------|--|--------|---|
| 9 | 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].) • Start the engine and warm it up completely. • 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. |
| 10 | 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. |