ENGINE (DIAGNOSTICS)(STI) > Diagnostic Procedure with Diagnostic Trouble Code (DTC)

# DTC P0107 MANIFOLD ABSOLUTE PRESSURE/BAROMETRIC PRESSURE SENSOR CIRCUIT LOW

#### DTC DETECTING CONDITION:

Immediately at fault recognition

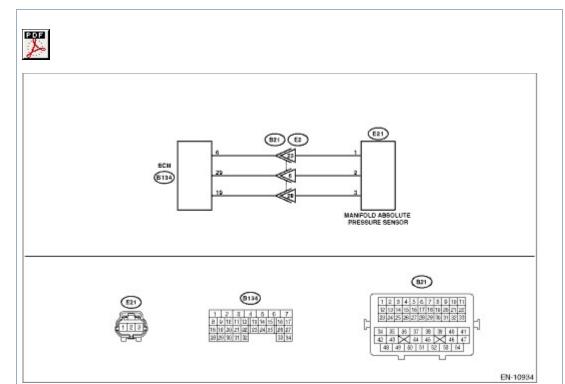
#### **CAUTION:**

After servicing or replacing faulty parts, perform Clear Memory Mode @>>, and Inspection Mode @>>.

### WIRING DIAGRAM:

• Engine Electrical System LHD MODEL (ENGINE TYPE EJ WITHOUT PUSH BUTTON START)

- Engine Electrical System LHD MODEL (ENGINE TYPE EJ WITH PUSH BUTTON START) 💿
- Engine Electrical System RHD MODEL



STEP	CHECK	YES	NO
, 3	Is the value of «Mani. Absolute Pressure» less than 13.3 kPa (100 mmHg, 3.94 inHg)?	<u>Go to Step 2.</u>	Even if DTC is detected, the circuit has returned to a normal condition at this time. Reproduce the failure, and then perform the diagnosis again. <b>NOTE:</b> <b>In this case, temporary</b> <b>poor contact of</b> <b>connector, temporary</b> <b>open or short circuit of</b> <b>harness may be the</b> <b>cause.</b>

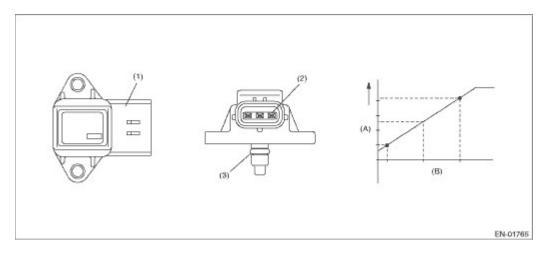
STEP	CHECK	YES	NO
Display For Engine".			
<ul> <li>General scan tool</li> </ul>			
For detailed			
operation			
procedures, refer to			
the general scan tool			
operation manual.			
<ul> <li>2.CHECK POWER</li> <li>SUPPLY OF MANIFOLD</li> <li>ABSOLUTE PRESSURE</li> <li>SENSOR. <ol> <li>Turn the ignition switch to OFF.</li> <li>Disconnect the connector from manifold absolute pressure sensor.</li> <li>Turn the ignition</li> </ol> </li> </ul>	Is the voltage 4.5 V or more?	<u>Go to Step 3.</u>	Repair the harness and connector. NOTE: In this case, repair the following item: • Open circuit of harness between ECM connector and manifold absolute pressure sensor connector
switch to ON.			• Poor contact of ECM
4) Measure the voltage			connector
between manifold absolute pressure sensor connector and			<ul> <li>Poor contact of coupling connector</li> </ul>
engine ground. Connector & terminal			
(E21) No. 3 (+) — Engine ground (-):			
3.CHECK HARNESS BETWEEN ECM AND MANIFOLD ABSOLUTE	Is the resistance less than 1 $\Omega$ ?	<u>Go to Step 4.</u>	Repair the harness and connector.
PRESSURE SENSOR CONNECTOR. 1) Turn the ignition			In this case, repair the following item: • Open circuit of
switch to OFF. 2) Disconnect the connector from ECM. 3) Measure the			harness between ECM connector and manifold absolute pressure sensor
resistance of harness between ECM connector and manifold			connector • Poor contact of coupling connector
absolute pressure sensor connector. <b>Connector &amp; terminal</b> (B134) No. 6 —			
(E21) No. 1:			
4.CHECK HARNESS BETWEEN ECM AND	Is the resistance 1 M $\Omega$ or more?	Go to Step 5. 🚳	Repair short circuit to ground in harness
MANIFOLD ABSOLUTE PRESSURE SENSOR			between ECM connector and manifold absolute
CONNECTOR.			pressure sensor
Measure the resistance			connector.
between ECM connector			
and chassis ground.			
<b>Connector &amp; terminal</b> (B134) No. 6 — Chassis			
ground:	ļ		
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STEP	CHECK	YES	NO
<b>CONTACT.</b> Check for poor contact of ECM and manifold	manifold absolute pressure sensor	contact of ECM or manifold absolute pressure sensor	Replace the manifold absolute pressure sensor.
absolute pressure sensor connector.	connector?	connector.	

## **1. OUTLINE OF DIAGNOSIS**

Detect the open or short circuit of intake manifold pressure sensor. Judge as NG if out of specification.

# 2. COMPONENT DESCRIPTION



(A) Output voltage (B) Absolute pressure

(1) Connector (2) Terminals (3) O-ring

# **3. EXECUTION CONDITION**

Secondary Parameters	<b>Execution condition</b>
None	

### 4. GENERAL DRIVING CYCLE

Always perform the diagnosis continuously.

### **5. DIAGNOSTIC METHOD**

If the duration of time while the following conditions are met is longer than the time indicated, judge as NG.

Judgment Value

Malfunction Criteria	Threshold Value

Output voltage < 0.573 V

Time Needed for Diagnosis: 2000 ms

Malfunction Indicator Light Illumination: Illuminates as soon as a malfunction occurs.