

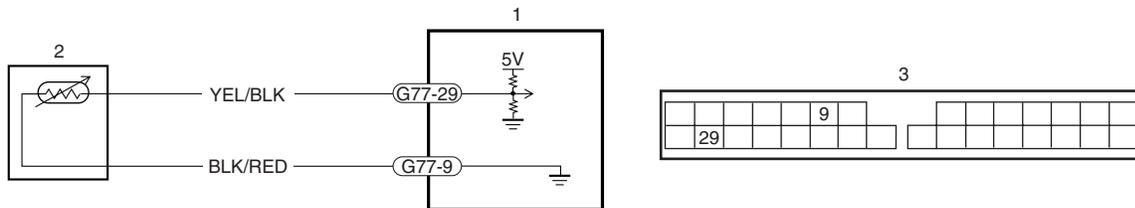
**Visual Inspection**

Check visually the following parts and systems.

Inspection item	Correction
<ul style="list-style-type: none"> <li>Refrigerant ---- leakage and amount</li> <li>A/C pipe or hose ---- disconnection, looseness and deterioration</li> <li>A/C compressor drive belt ---- looseness and damage</li> <li>Battery ---- fluid level and corrosion of terminal</li> <li>Connectors of electric wire harness ---- disconnection and friction</li> <li>Fuses ---- burning</li> <li>Parts ---- installation and damage</li> <li>Other parts that can be checked visually</li> </ul>	<p>Refer to “Quick Checking of Refrigerant Charge: Manual Type”.</p> <p>Refer to “Compressor Drive Belt Inspection: Manual Type”.</p>

**DTC B1501 (No.01): Outside Air Temperature Sensor and/or its Circuit Malfunction**

**Wiring Diagram**



1. HVAC control module	2. Outside air temperature sensor	3. HVAC control module connector “G77” (viewed from harness side)
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**DTC Detecting Condition and Trouble Area**

DTC Detecting Condition	Trouble Area
<ul style="list-style-type: none"> <li>Outside air temperature signal is less than the specified (0.7 V). (Outside air temperature is less than -44 °C, -111 °F.)</li> <li>Outside air temperature signal is more than the specified (3.3 V). (Outside air temperature is more than 155 °C, 311 °F.)</li> </ul>	<ul style="list-style-type: none"> <li>“YEL/BLK” and/or “BLK/RED” wire faulty</li> <li>Outside air temperature sensor faulty</li> <li>HVAC control module faulty</li> </ul>

**DTC Troubleshooting**

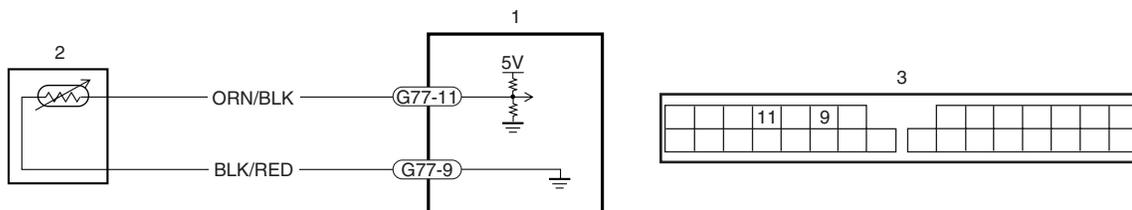
Step	Action	Yes	No
1	1) Turn ignition switch OFF, and then disconnect outside air temperature sensor connector referring to “Outside Air Temperature Sensor Removal and Installation: Automatic Type”. 2) Turn ignition switch ON, and then check voltage between “YEL/BLK” wire terminal at outside air temperature sensor connector and body ground. <i>Is voltage about 3.5 V?</i>	Go to Step 4.	Go to Step 2.
2	1) Turn ignition switch OFF, and then disconnect HVAC control module connector referring to “HVAC Control Module Removal and Installation: in Section 7A”. 2) Check resistance between “YEL/BLK” wire terminal at outside air temperature sensor connector and “YEL/BLK” wire terminal at HVAC control module connector. <i>Is resistance less than 1 MΩ?</i>	Go to Step 3.	“YEL/BLK” wire open or high resistance.

Step	Action	Yes	No
3	1) Check resistance between “YEL/BLK” wire terminal and body ground.  <i>Is resistance more than 1 MΩ?</i>	Poor connection of “YEL/BLK” wire terminal at HVAC control module connector, and/or HVAC control module faulty.	“YEL/BLK” wire shorted to ground.
4	1) With ignition switch ON position, check voltage between “YEL/BLK” wire terminal and “BLK/RED” wire terminal at outside air temperature sensor connector.  <i>Is voltage about 3.5 V?</i>	Go to Step 5.	“BLK/RED” wire open, poor connection of “BLK/RED” wire terminal at HVAC control module connector, and/or HVAC control module faulty.
5	1) Check outside air temperature sensor referring to “Outside Air Temperature Sensor Inspection: Automatic Type”.  <i>Is outside air temperature sensor normal?</i>	HVAC control module faulty.	Outside air temperature sensor faulty.

**DTC B1502 (No.02): Inside Air Temperature Sensor and/or its Circuit Malfunction**

S3RH0A7224012

**Wiring Diagram**



I3RH0A722008

1. HVAC control module	2. Inside air temperature sensor	3. HVAC control module connector “G77” (viewed from harness side)
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**DTC Detecting Condition and Trouble Area**

DTC Detecting Condition	Trouble Area
<ul style="list-style-type: none"> <li>• Inside air temperature signal is less than the specified (0.7 V). (Inside air temperature is less than -15 °C, 5°F.)</li> <li>• Inside air temperature signal is more than the specified (3.3 V). (Inside air temperature is more than 74 °C, 165.2 °F.)</li> </ul>	<ul style="list-style-type: none"> <li>• “ORN/BLK” and/or “BLK/RED” wire faulty</li> <li>• Inside air temperature sensor faulty</li> <li>• HVAC control module faulty</li> </ul>

**DTC Troubleshooting**

Step	Action	Yes	No
1	1) Turn ignition switch OFF, and then disconnect inside air temperature sensor connector referring to “Inside Air Temperature Sensor Removal and Installation: Automatic Type”.  2) Turn ignition switch ON, and then check voltage between “ORN/BLK” wire terminal at inside air temperature sensor connector and body ground.  <i>Is voltage about 3.5 V?</i>	Go to Step 4.	Go to Step 2.
2	1) Turn ignition switch OFF, and then disconnect HVAC control module connector referring to “HVAC Control Module Removal and Installation: in Section 7A”.  2) Check resistance between “ORN/BLK” wire terminal at inside air temperature sensor connector and “ORN/BLK” wire terminal at HVAC control module connector.  <i>Is resistance less than 1 MΩ?</i>	Go to Step 3.	“ORN/BLK” wire open or high resistance.