

Visual Inspection

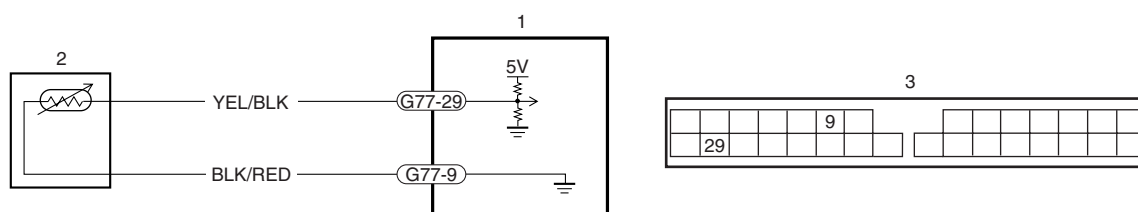
S3RH0A7224009

Check visually the following parts and systems.

Inspection item	Correction
<ul style="list-style-type: none"> Refrigerant ---- leakage and amount A/C pipe or hose ---- disconnection, looseness and deterioration A/C compressor drive belt ---- looseness and damage Battery ---- fluid level and corrosion of terminal Connectors of electric wire harness ---- disconnection and friction Fuses ---- burning Parts ---- installation and damage Other parts that can be checked visually 	<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

S3RH0A7224011

Wiring Diagram


I3RH0A722007

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

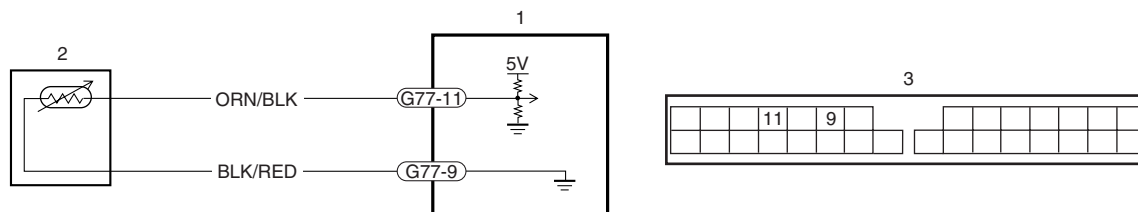
DTC Troubleshooting

Step	Action	Yes	No
1	<p>1) Turn ignition switch OFF, and then disconnect outside air temperature sensor connector referring to “Outside Air Temperature Sensor Removal and Installation: Automatic Type”.</p> <p>2) Turn ignition switch ON, and then check voltage between “YEL/BLK” wire terminal at outside air temperature sensor connector and body ground.</p> <p><i>Is voltage about 3.5 V?</i></p>	Go to Step 4.	Go to Step 2.
2	<p>1) Turn ignition switch OFF, and then disconnect HVAC control module connector referring to “HVAC Control Module Removal and Installation: in Section 7A”.</p> <p>2) Check resistance between “YEL/BLK” wire terminal at outside air temperature sensor connector and “YEL/BLK” wire terminal at HVAC control module connector.</p> <p><i>Is resistance less than 1 MΩ?</i></p>	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"> Inside air temperature signal is less than the specified (0.7 V). (Inside air temperature is less than -15°C, 5°F.) Inside air temperature signal is more than the specified (3.3 V). (Inside air temperature is more than 74°C, 165.2°F.) 	<ul style="list-style-type: none"> "ORN/BLK" and/or "BLK/RED" wire faulty Inside air temperature sensor faulty HVAC control module faulty

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.