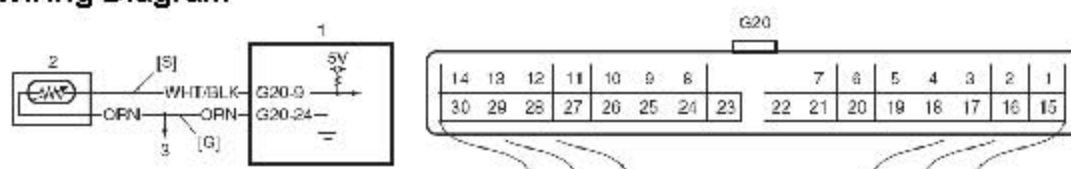


B1503: Evaporator Temperature Sensor Circuit Malfunction

Wiring Diagram



[S]: Evaporator temperature sensor signal circuit	1. HVAC control module	3. To other sensors
[G]: Evaporator temperature sensor ground circuit	2. Evaporator temperature sensor	

DTC Detecting Condition and Trouble Area

DTC Detecting Condition	Trouble Area
Evaporator temperature sensor signal voltage is higher than or lower than specified value for specified time continuously.	<ul style="list-style-type: none"> Evaporator temperature sensor circuit Evaporator temperature sensor HVAC control module

DTC Troubleshooting

Step	Action	Yes	No
1	Was "Air Conditioning System Check" performed?	Go to Step 2.	Go to "Air Conditioning System Check: Automatic Type".
2	<p>Wire harness check</p> <p>1) Turn ignition switch to OFF position.</p> <p>2) Disconnect connectors from evaporator temperature sensor and HVAC control module.</p> <p>3) Check for proper connection to each signal circuit terminal and ground circuit terminal of evaporator temperature sensor and HVAC control module connectors.</p> <p>4) If OK, check that evaporator temperature sensor circuit is as follows.</p> <ul style="list-style-type: none"> • Wiring harness resistance of each evaporator temperature sensor signal circuit and ground circuit is less than 3 • Insulation resistance between evaporator temperature sensor signal circuit and vehicle body ground is Infinity • Circuit voltage of each evaporator temperature sensor signal circuit and ground circuit is 0 - 1 V with ignition switch turned ON <p>Are they good condition?</p>	Go to Step 3.	Evaporator temperature sensor signal circuit and/or ground circuit are open, short or high resistance.

Step	Action	Yes	No
3	Evaporator temperature sensor reference voltage check 1) Connect connector to HVAC control module with ignition switch turned OFF. 2) Turn ignition switch to ON position. 3) Measure voltage between signal terminal and ground terminal of evaporator temperature sensor connector. Is voltage 4.5 – 5.5 V?	Go to Step 4.	Substitute a known-good HVAC control module and recheck.
4	Evaporator temperature sensor check 1) Check evaporator temperature sensor for performance referring to "Evaporator Temperature Sensor Inspection: Automatic Type". Is it in good condition?	Substitute a known-good HVAC control module and recheck.	Replace evaporator temperature sensor.

LAUNCH