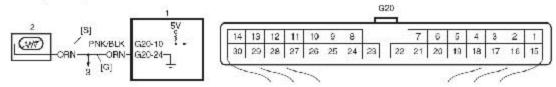
B1502: Inside Air Temperature Sensor Circuit Malfunction

Wiring Diagram



sensors
side air temperature
ln

DTC Detecting Condition and Trouble Area

DTC Detecting Condition	Trouble Area
Inside air temperature sensor signal voltage is higher than or lower than specified time continuously.	 Inside air temperature sensor circuit Inside air 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".

Step	Action	Yes	No
2	Wire harness check 1) Turn ignition switch to OFF position. 2) Disconnect connectors from inside air temperature sensor and HVAC control module. 3) Check for proper connection to each signal circuit terminal and ground circuit terminal of inside air temperature sensor and HVAC control module connectors. 4) If OK, check that inside air temperature sensor circuit is as follows. • Wiring harness resistance of each inside air temperature sensor signal circuit and ground circuit is less than 3 • Insulation resistance between inside air temperature sensor signal circuit and vehicle body ground is infinity • Circuit voltage of each inside air temperature sensor signal circuit and ground circuit and ground circuit and ground is infinity • Circuit voltage of each inside air temperature sensor signal circuit and ground circuit is 0 – 1 V with ignition switch turned ON Are they in good condition?	Go to Step 3.	Inside air temperature sensor signal circuit and/or ground circuit are open, short or high resistance.
3	Inside air 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 inside air temperature sensor connector. Is voltage 4.5 – 5.5 V?	Go to Step 4.	Substitute a known- good HVAC control module and recheck.

Step	Action	Yes	No
4	Inside air temperature sensor check	Substitute a	Replace
	1) Check inside air temperature sensor	known-	inside air
	for performance referring to "Inside Air	good HVAC	temperature
	Temperature Sensor Inspection:	control	sensor.
	Automatic Type".	module and	
	Is it in good condition?	recheck.	