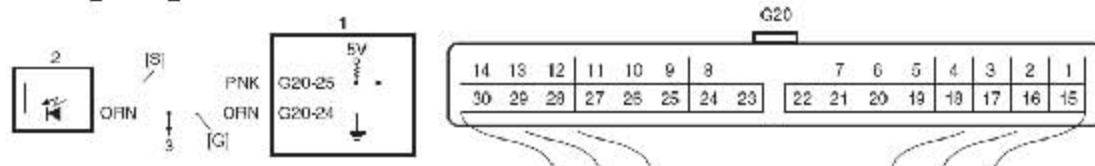


B1504: Sunload Sensor Circuit Malfunction

Wiring Diagram



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

DTC Detecting Condition and Trouble Area

DTC Detecting Condition	Trouble Area
<ul style="list-style-type: none"> • Sunload sensor signal voltage is higher than or lower than specified value for specified time continuously. • Without sunlight 	<ul style="list-style-type: none"> ● Sunload sensor circuit ● Sunload 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. 2) Disconnect connectors from sunload sensor and HVAC control module.</p> <p>3) Check for proper connection to each signal circuit terminal and ground circuit terminal of sunload sensor and HVAC control module connectors 4) If OK, check that sunload sensor circuit is as follows.</p> <ul style="list-style-type: none"> • Wiring harness resistance of each sunload sensor signal circuit and ground circuit is less than 3 • Insulation resistance of each sunload sensor signal circuit and ground circuit between sunload sensor connector and vehicle body ground is Infinity • Circuit voltage of each sunload sensor signal circuit and ground circuit is 0 – 1 V with ignition switch turned ON <p>Are they in good condition?</p>	Go to Step 3.	Sunload sensor power supply circuit and/or signal circuit are open, short or high resistance.

Step	Action	Yes	No
3	Sunload sensor power supply 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 sunload sensor connector. Is voltage 4.5 – 5.5 V?	Go to Step 4.	Substitute a known-good HVAC control module and recheck.
4	Sunload sensor check 1) Check sunload sensor for performance referring to “Sunload Sensor Inspection”. Is it in good condition?	Substitute a known-good HVAC control module and recheck.	Replace sunload sensor.

LAUNCH