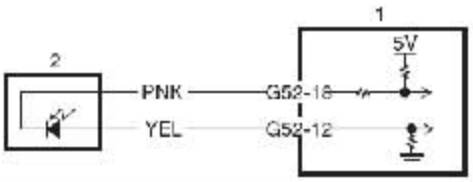
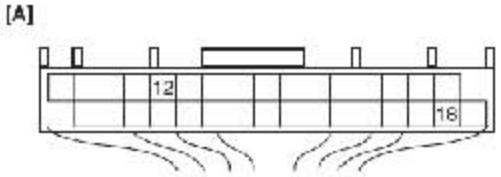
B1504: Sunload Sensor and/or Its Circuit Malfunction

Wiring Diagram





[A]: HVAC control module connector "G52" (harness side view)	1. HVAC control module	2. Sunload senso

DTC Detecting Condition and Trouble Area

DTC Detecting Condition	Trouble Area
Sunload sensor signal voltage is more than or less than specified value for specified time continuously.	Sunload sensor circuit r HVAC control module

DTC Confirmation Procedure

1) Connect scan tool to DLC with ignition switch turned OFF.
2) Turn ON ignition switch and clear DTC using scan tool.
3) Check DTC.

DTC Troubleshooting

Step	Action	Yes	No
1	**Sunload sensor power supply circuit check** 1) Disconnect sunload sensor connector with ignition switch turned OFF. 2) Check for proper connection to sunload sensor at "PNK" and "YEL" wire terminals. 3) If OK, measure voltage between "PNK" wire terminal of sunload sensor connector and vehicle body ground with ignition switch turned ON. Is voltage 4 – 6 V?	Go to Step 5.	Go to Step 2.

Step	Action	Yes	No
2	**Sunload sensor power supply circuit check** 1) Disconnect connector from HVAC control module with ignition switch turned OFF. 2) Check for proper connection to HVAC control module connector at "G52-12" and "G52-18" terminals. 3) If OK, measure resistance between "PNK" wire terminal of sunload sensor connector and "G52-12" terminal of HVAC control module connector. Is resistance below 5 Ω?	Go to Step 3.	"PNK" wire open or high resistance circuit.
3	**Sunload sensor power supply circuit check** 1) Measure resistance between "PNK" wire terminal of sunload sensor connector and vehicle body ground. Is resistance infinity?	Go to Step 4.	"PNK" wire shorted to ground circuit.
4	**Sunload sensor power supply circuit check** 1) Measure voltage between "PNK" wire terminal of sunload sensor connector and vehicle body ground with ignition switch turned ON. Is voltage 0 V?	Go to Step 5.	"PNK" wire shorted to other circuit.
5	Sunload sensor signal circuit check 1) Disconnect HVAC control module connector with ignition switch turned OFF. 2) Measure resistance between "YEL" wire terminal of sunload sensor connector and vehicle body ground. Is resistance infinity?	Go to Step 6.	
6	Sunload sensor signal circuit check 1) Measure resistance between "G52-12" terminal of HVAC control module connector and "YEL" wire terminal of sunload sensor connector. Is resistance below 5 Ω?	Go to Step 7.	"YEL" wire open or high resistance circuit.

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Step	Action	Yes	No
7	Sunload sensor signal circuit check 1) Measure voltage between "YEL" wire terminal of sunload sensor connector and vehicle body ground with ignition switch turned ON. Is voltage 0 V?	Go to Step 8.	"YEL" wire shorted to other circuit.
8	Sunload sensor check 1) Check sunload sensor referring to "Sunload Sensor Inspection: ". Is it in good condition?	HVAC control module faulty.	Sunload sensor faulty.

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