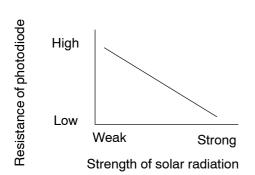
DIAR0-01

DTC	21	Solar Sensor Circuit
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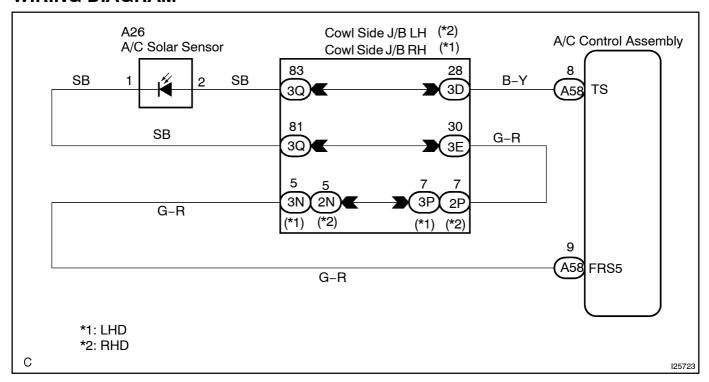
CIRCUIT DESCRIPTION



A photo diode in the solar sensor detects solar radiation and sends signals to the A/C amplifier.

DTC No	Detection Item	Trouble Area	
	Open or short in solar sensor circuit	Solar sensor	
21	Please note that display of diagnostic trouble code 21 is not	Harness or connector between solar sensor and A/C amplifier	
	abnormal when the sensor is not receiving solar radiation	A/C amplifier	

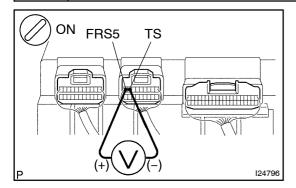
WIRING DIAGRAM



INSPECTION PROCEDURE

1[]

Check[voltage[between[terminals[TS]]and[FRS5[of]]A/C[amplifier.



PREPARATION:

Remove A/C amplifier with connectors still connected.

CHECK:

- (a) ☐ Turn ignition switch flo ON.
- (b) Measure voltage between terminals Sand FRS5 of A/C amplifier connector when the solar ensor subjected an electric light, and when the ensor solvered with a cloth.

OK:

Condition	Voltage
Sensor[subjected[lo[electric[light	0.8 -[4.3[]V
Sensor@overed@vith@@loth	Below[0.8[V

HINT:

As[the[inspection[i]ght[is[inoved[away[f]rom[t]he[sensor,[t]he[voltage[increases.

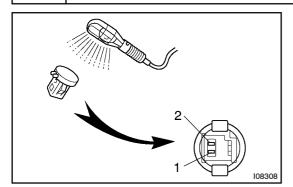


Go[to[step[2.



Proceed to the cuit inspection shown on problem symptoms table (See page DI-1238). However, if DTC 21 is displayed, check and replace A/C amplifier.

2 | Check[solar[sensor.



PREPARATION:

Remove[\$olar[\$ensor.

CHECK:

- (a) Cover the sensor with that cloth.
- (b) Measure resistance between terminals 1 and 2 of solar sensor connector.

HINT:

 $Connect \cite[-+] \cite[$

OK:

Resistance $\square \bowtie \Omega$ (no continuity)

PREPARATION:

- (a) Remove the cloth from the solar sensor and subject the sensor to be lectric to the sensor to be sensor.
- (b) Measure resistance.

OK:

Resistance [[Approx. [4] kΩ [(continuity)

HINT:

As the electric ight is inoved away from the sensor, the lesistance increases.

NG

Replace solar sensor.

OK

3

Check harness and connector between A/C amplifier and solar sensor (See page N-38).

NG

Repair or replace harness or connector.

OK

Check and replace A/C amplifier.