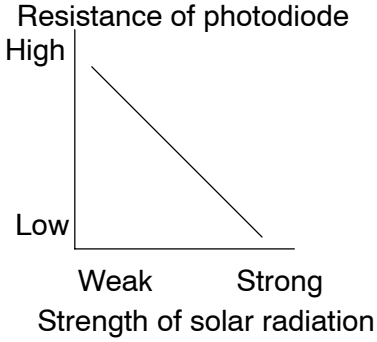
DTC	21	SOLAR SENSOR CIRCUIT(PASSENGER SIDE)

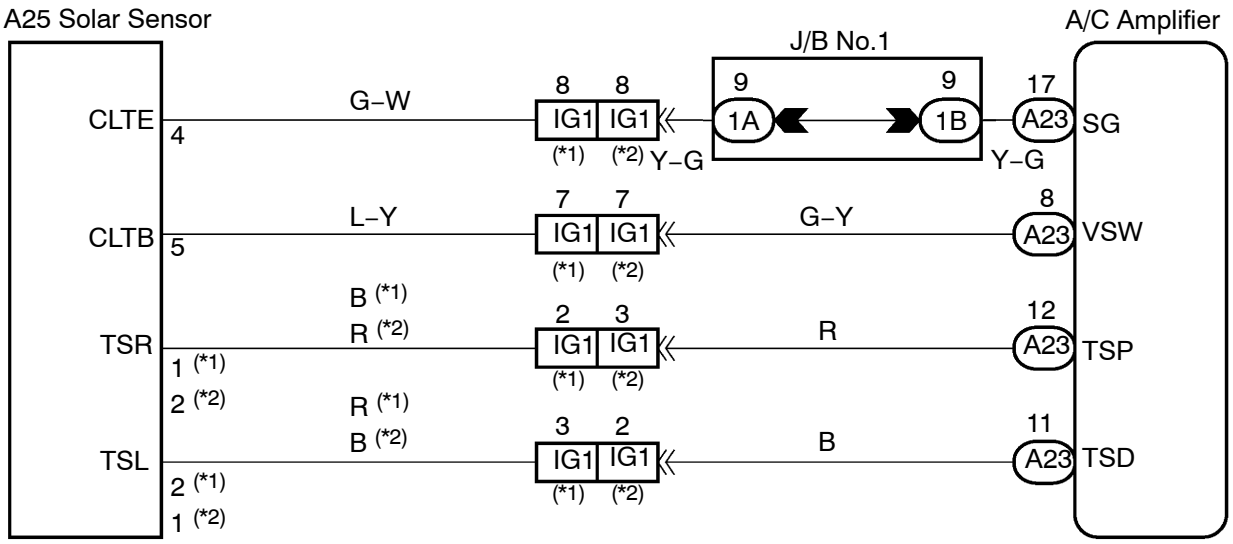
CIRCUIT DESCRIPTION



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

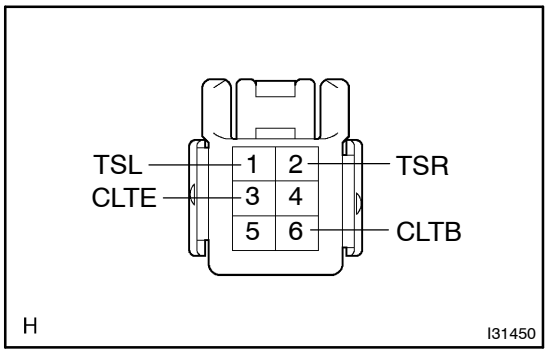
DTC No.	Detection Item	Trouble Area
21	Open or short in solar sensor circuit. (Please note that display of DTC 21 is not abnormal when the sensor is not receiving solar radiation.)	• Automatic light control sensor (solar sensor) • Harness or connector between automatic light control sensor (solar sensor) and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT AUTOMATIC LIGHT CONTROL SENSOR(SOLAR SENSOR)



(a) Remove automatic light control sensor (solar sensor).
(b) Cover sensor with a cloth.
(c) Measure resistance between terminal 1 and 2 of automatic light control sensor (solar sensor) connector.
Resistance: ∞ Ω (No continuity)

HINT:
Connect the positive (+) lead to ohmmeter to terminal 1 and negative (–) lead to terminal 2 of the automatic light control sensor (solar sensor).

(d) Remove the cloth from the automatic light control sensor (solar sensor) and subject the sensor to electric light.
(e) Measure resistance between terminal 1 and 2 of automatic light control sensor (solar sensor).
Resistance: Approx. 10 kΩ (Continuity)

HINT:
Connect the positive (+) lead to ohmmeter to terminal 1 and negative (–) lead to terminal 2 of the automatic light control sensor.

NG → **REPLACE AUTOMATIC LIGHT CONTROL SENSOR**

OK

2	CHECK HARNESS AND CONNECTOR(AUTOMATIC LIGHT CONTROL SENSOR (SOLAR SENSOR) – A/C AMPLIFIER)

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

CHECK AND REPLACE AIR CONDITIONING AMPLIFIER