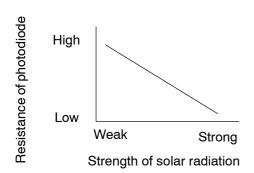
DI269_0:

DTC B1421/21 Solar Sensor Circuit (Passenger side)

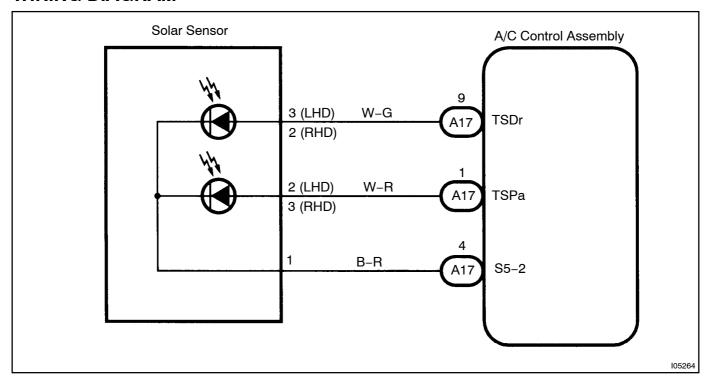
CIRCUIT DESCRIPTION



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

DTC No.	Detection Item	Trouble Area
B1421/21	Open or short in solar sensor circuit. Please note that display of diagnostic trouble code 21 is not abnormal when the sensor is not receiving solar radiation.	 Solar sensor. Harness or connector between solar sensor and A/C control assembly. A/C control assembly.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

Incase of wising the LEXUS chard-held tester, start the inspection step of and incase of choicester, start from step 2.

1[

Check[solar[sensor[Passenger[Side)using[LEXUS[hard-held[tester.

PREPARATION:

Connect[]he[]LEXUS[]hard-held[]tester[]to[]the[]DLC3.

CHECK:

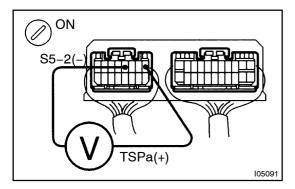
Check[]he[solar[sensor[]Passenger[Side)]using[DATA]LIST.

ок□

Check[and[replace[A/C[control[assembly.

NG

2 Check[voltage[between[terminals[\$5-2[and[TSPa[of[A/C[control[assembly[connector.



PREPARATION:

Remove A/C control assembly with connectors still connected.

CHECK:

- (a) Turn ignition switch ON.
- (b) Measure voltage between terminals \$5-2 and TSPa of A/C ontrolassembly connector when the solar sensor is subjected to an electric of the sensor of the s

OK:

Condition	Voltage
Sensor[subjected[lo[electric[light]]]	0.8 -[4 .3[V
Sensor@overed@by@@loth	Below[0.8[V

HINT:

As[the[inspection[i]ght[i]s[inoved[a]way[f]rom[t]he[sensor,[t]he[voltage increases.

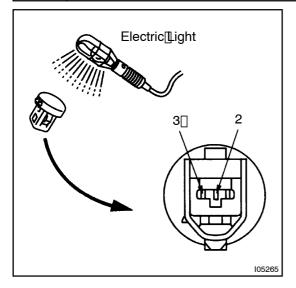
NG

Go to step 3.

OK

Proceed@pmext@ircuit@nspection@shown@nproblem@symptoms@able@SeepageDI-912).[However, if DTC B1421/21 is displayed, check and replace A/C control assembly.

3 | Check[solar[sensor.



PREPARATION:

Remove[\$olar[\$ensor.

CHECK:

- (a) ☐ Cover The Sensor by a cloth.
- (b) Measure resistance between terminals fand 2 of solar sensor connector.

HINT:

<u>OK:</u>

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

4

Check harness and connector between A/C control assembly and solar sensor (See page N-29).

NG

Repair or replace harness or connector.

OK

Check and replace A/C control assembly.