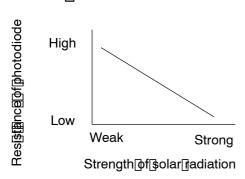
DI2QV-01

**DTC** 

## B1424/24 Solar sensor circuit Driver side)

## **CIRCUIT** DESCRIPTION



A[photo[diode[]n[]the[]solar[]sensor[]detects[]solar[]radiation[]and sends[\$ignals[to[the[A/C[control[assembly.

DTC[No.	Detection[]tem	Trouble[ <b>A</b> rea
B1424/24	Open@r[\$hort[]n[\$olar[\$ensor[¢ircuit. Please[]note[]hat[display[]of[]diagnostic[]rouble[code[]21[]s[]hot abnormal[]when[]he[\$ensor[]s[]hot[]eceiving[\$olar[]adiation.	Solar sensor.     Harness or onector between solar sensor and A/C control assembly.     A/C ontrol assembly.

## **WIRING DIAGRAM**

See page DI-926

## **INSPECTION PROCEDURE**

Incase of flusing the LEXUS hand-held tester, start the inspection step 1 and incase of flusing the LEXUS hand-held[tester,[start[from[step[2.

1∏

Check[solar[sensor[(Driver[Side)]]using[LEXUS[hand-held]]tester.

## **PREPARATION:**

Connect@he@LEXUS@hand-held@ester@o@he@DLC3.

## CHECK:

Check the Solar Sensor (Driver Side) using DATA LIST.

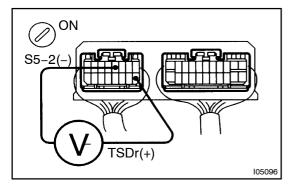
OK

Check and replace A/C control assembly.

NG

**2**[]

# $\label{lem:check_voltage_between_terminals} $5-2 and $TSDr_{\Phi}^A/C_{\Phi}^a$ in the connector. $$ $2-2 and $TSDr_{\Phi}^A/C_{\Phi}^a$ is the connector of the connecto$



### PREPARATION:

 $Remove \cite{A/C} \ref{control} \ref{control$ 

- (a) ☐ Turn ignition switch ON.
- (b) Measure voltage between rminals \$5-2 and \$\text{ISDr}\$ for A/C ontrol assembly on nector when the solar sensor is subjected to an electric fight, and when the sensor is covered by alfoth.

## OK:

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

### HINT:

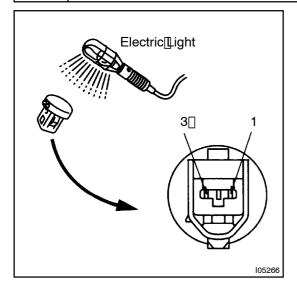
As[the[inspection[i]ght[i]s[moved[a]way[f]rom[t]he[sensor,[t]he[voltage[increases.



ОК

Proceed@iomext@ircuit@nspection@hown@nproblem@ymptoms@able@seepageDI-912).[However, if DTC B1424/24 is displayed, check and replace A/C control assembly.

## 3 | Check[\$olar[\$ensor.



### PREPARATION:

- (a) Remove glove compartment assembly.
- (b) Remove solar sensor.

## **CHECK:**

- (a) Cover the sensor by a cloth.
- (b) Measure resistance between terminals 1 and 2 of solar sensor onnector.

#### 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 fight.
- (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.



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.