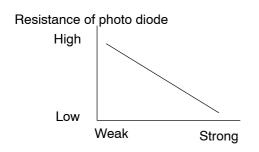
DISBU-01

DTC B1424/24 Solar Sensor Circuit (Driver Side)

CIRCUIT DESCRIPTION

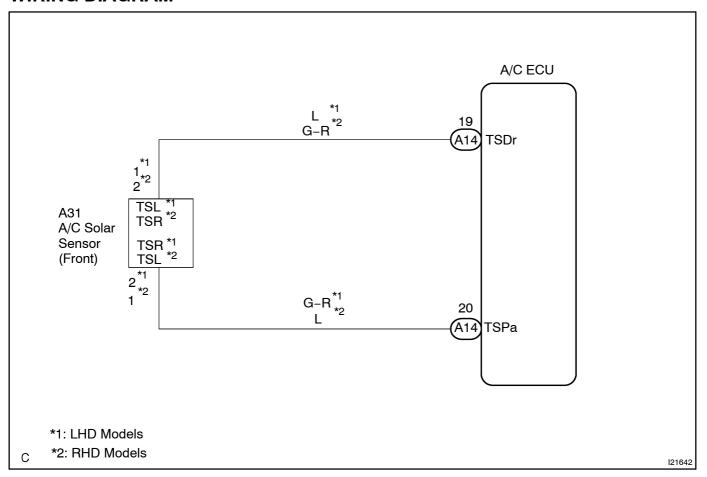


Strength of solar radiation

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

DTC No.	Detection Item	Trouble Area
	Open or short in solar sensor circuit.	Solar sensor.
B1424/24	Please note that display of diagnostic trouble code B1424/24 is	Harness or connector between solar sensor and A/C ECU.
	not abnormal when the sensor is not receiving solar radiation.	•A/C ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

In[case]of[using]he[hand-held]ester,[start]he[inspection[step]] [and[in]case[of[hot]using]he[hand-held tester,[start]from[step]2.

1□

Check[solar[sensor[using[hand-held[tester.

PREPARATION:

Connect[]he[]hand-held[]ester[]o[]he[]DLC3.

CHECK:

Check[]he[solar[sensor[]using[]DATA[]LIST.

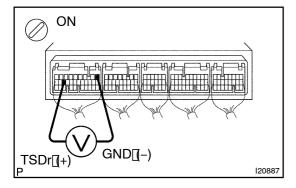
ок□

Check[and[replace[A/C[ECU.

NG

2[]

Check[voltage[between[terminals[TSDr[and[GND[bf]A/C[ECU[connector.



PREPARATION:

Remove[A/C[ECU[with[connectors[still[connected.

CHECK:

- (a) Turn ignition switch to ON.
- (b) Measure voltage between rminals TSDr and GND of A/C CUconnector when the solar sensor is subjected to an electric ight, and when the sensor scovered by a cloth.

OK:

Condition	Voltage
Sensor[subjected[lo[electric[light]]]	0.8 -[4 .3[V
Sensor@overed@by@coth	Below[0.8[1/

HINT:

As[the[inspection[i]ght[is[inoved]away[from[the[sensor,[the[]voltage increases.

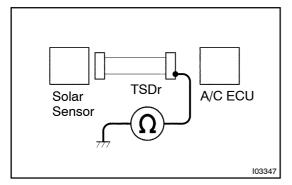
NG

Go to step 3.

OK

Proceed[]o[hext@ircuit[]nspection[\$hown@n[problem[\$ymptoms[]able[]See[page[DI-1]]72).[However, if DTC B1424/24 is displayed, check and replace A/C ECU.

3 Check wire harness



PREPARATION:

Disconnect the connector of solar sensor and A/C ECU.

CHECK:

Check the continuity between wire harness and body ground.

<u>OK:</u>

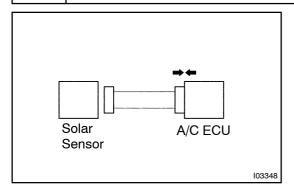
Resistance: No continuity



Repair or replace the wire harness.

NG

4 Check A/C ECU.



PREPARATION:

Connect the connector of A/C ECU.

CHECK:

Check the DTC.

OK:

B1224/24 is not output.

NG

Replace the A/C ECU.

OK

Replace the solar sensor.