DTC	B1424/24	Solar Sensor Circuit (Driver Side)

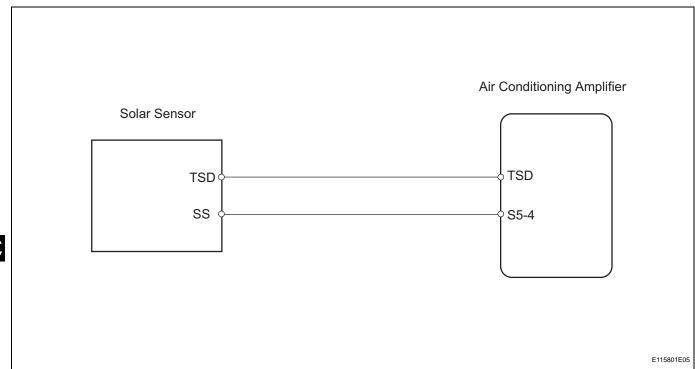
DESCRIPTION

The solar sensor, which is installed on the upper side of the instrument panel, detects sunlight and controls the air conditioning AUTO mode. The output voltage from the solar sensor varies in accordance with the amount of sunlight. When the sunlight increases, the output voltage increases. As the sunlight decreases, the output voltage decreases.

The air conditioning amplifier detects changes in the output voltage from the solar sensor.

DTC No.	DTC Detection Condition	Trouble Area
B1424/24	Open or short in passenger side solar sensor circuit	 Solar sensor Harness and connector between solar sensor and air conditioning amplifier Air conditioning amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	READ VALUE OF INTELLIGENT TESTER (SOLAR SENSOR D SIDE)	
	(a)	Connect the intelligent tester (with CAN VIM) to the DLC3.
	(b)	Turn the ignition switch ON and turn the intelligent tester main switch ON.
	(C)	Select the item below in the DATA LIST, and read the value displayed on the intelligent tester.

tem)

Air conditioning amplifier

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
SOLAR SENS-D	Driver side solar sensor / Min.: 0, Max.: 255	Driver side temperature increases as brightness increases	-

OK:

The display is as specified in the normal condition column.

Result

Α

2

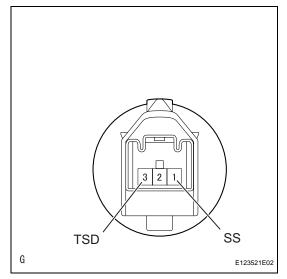
Result	Proceed to
NG	A
OK (Checking from the PROBLEM SYMPTOMS TABLE)	В
OK (Checking from the DTC)	С



SHOWN IN PROBLEM SYMPTOMS TABLE

REPLACE AIR CONDITIONING AMPLIFIER

INSPECT SOLAR SENSOR



a)	Remove the solar sensor.	
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(b) Measure the resistance of the sensor.

(c) Connect the ohmmeter's positive (+) lead to terminal 1 and the negative (-) lead to terminal 3 of the solar sensor.

Standard resistance

Tester Connection	Condition	Specified Condition
1 (SS) - 3 (TSD)	Sensor exposed to electric light	Except $\infty \Omega$
1 (SS) - 3 (TSD)	Sensor covered with cloth	$\infty \Omega$ (No continuity)

NOTICE:

The connection procedure for using a digital tester such as an electrical tester is shown above. When using an analog tester, connect the positive (+) lead to terminal 3 and the negative (-) lead to terminal 1 of the solar sensor.

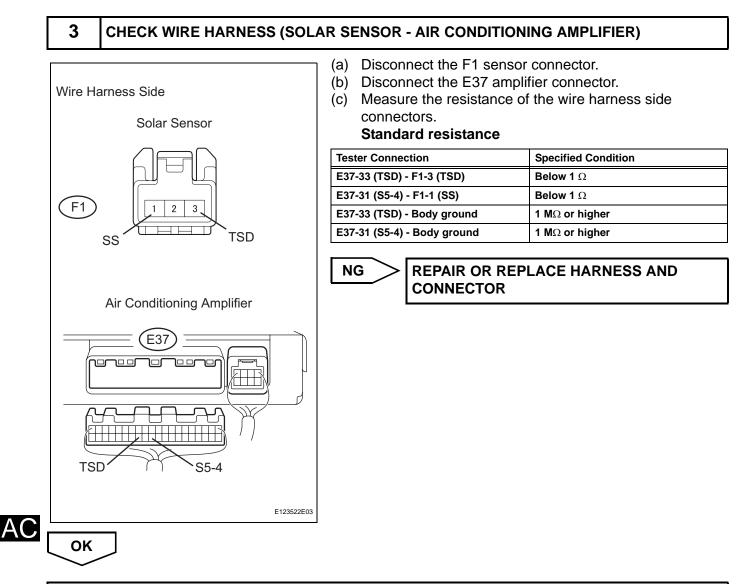
HINT:

- · As the inspection light is moved away from the sensor, the voltage decreases.
- Use an incandescent light for the inspection. Position • it about 30 cm (11.8 in.) from the solar sensor.

NG

REPLACE SOLAR SENSOR

AC:



REPLACE AIR CONDITIONING AMPLIFIER