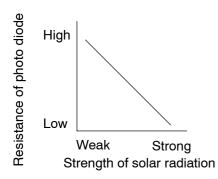
DI8BV-01

DTC B1428/28 Solar Sensor Circuit (Rear Side)

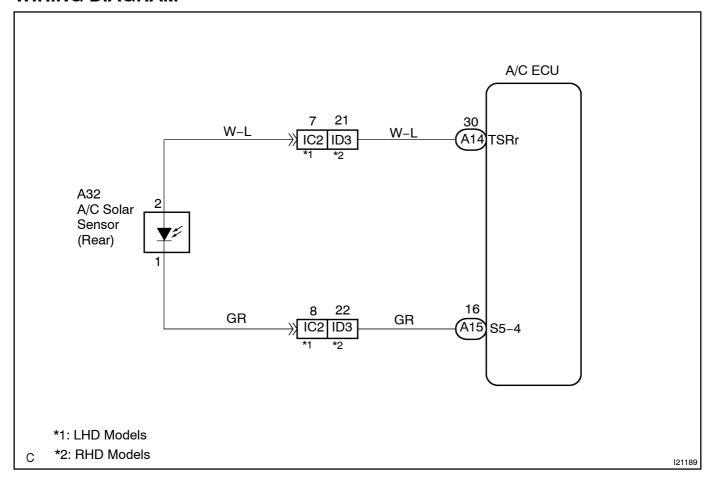
## **CIRCUIT DESCRIPTION**



A photo diode in the solar 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.
B1428/28	(Please note that display of DTC B1428/28 is not abnormal	Harness or connector between solar sensor and A/C ECU.
	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.

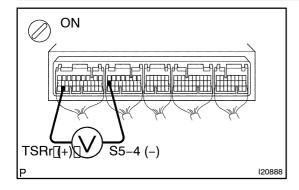
OK[]

Checkandreplace A/CECU.

NG

**2**[]

Check[voltage[between[terminals[TSRr[and[\$5-4[bf[A/C[ECU[connector.



#### PREPARATION:

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

### **CHECK:**

- (a) Turn ignition switch on.
- (b) Measure voltage between erminals SRr and \$5-4 of A/C CU connector when the solar ensor subjected an electric ght, and when the sensor scovered by a cloth.

#### OK:

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

#### HINT:

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

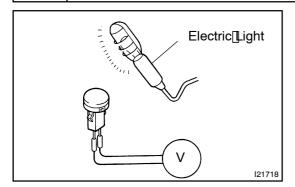
NG

Go to step 3.

OK

Proceed on exterious form on problem symptoms able See page I-1772). However, if DTC B1428/28 is displayed, check and replace A/C ECU.

3 | Check[solar[sensor.



#### PREPARATION:

Remove[\$olar[\$ensor.

### **CHECK:**

- (a) ☐ Cover The Sensor by a cloth.
- (b) Measure voltage between ferminals and 2 of solar ensor connector.

#### HINT:

 $Connect \cite[-+] \cite[$ 

## OK:

Voltage: Below 1.0 V

### **PREPARATION:**

- (a) Remove[]the[cloth[]trom[]the[solar[sensor[and[subject[]the sensor[]to[]tectric[]ight.
- (b) Measure voltage.

#### OK:

Voltage: Approx. 0.4 V

HINT:

Asthetelectrictighttistmovedawaytmomthetensor,theteletrictighttistmovedawaytmomthetelesensor,theteletrictighttistmovedawaytmomtheteletrictighttistmovedawaytmomtheteletrictighttistmovedawaytmovedawaytmomtheteletrictighttistmovedawaytmove

NG□

Replace solar sensor.

OK

4

Check harness and connector between A/C ECU and solar sensor (See page N-35).

NG

Repair or replace harness or connector.

OK

Check and replace A/C ECU.