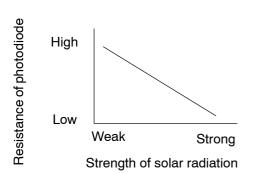
DI60B-01

DTC	B1421	Solar Sensor Circuit
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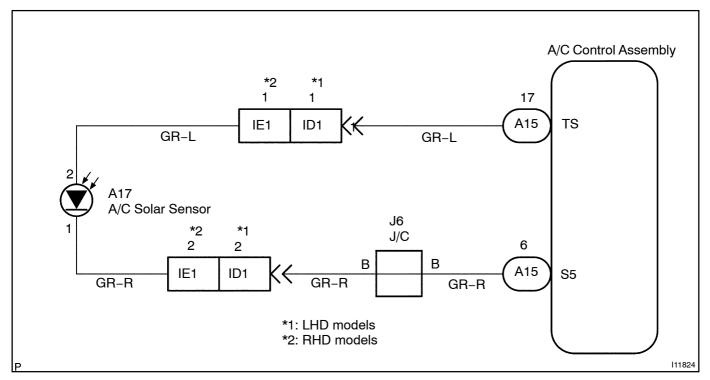
# **CIRCUIT DESCRIPTION**



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	Open or short in solar sensor circuit.  Please note that display of diagnostic trouble code B1421 is not abnormal when the sensor is not receiving solar radiation.	<ul> <li>Solar sensor.</li> <li>Harness or connector between solar sensor and A/C control assembly.</li> <li>A/C control assembly.</li> </ul>

# **WIRING DIAGRAM**



# **INSPECTION PROCEDURE**

HINT:

 $In[\c ase] f[\u sing] the [\n d-held] tester, $\t art[\n e] nspection $\t ep[\] and $\n e see f[\n d-held] tester, $\t art[\n e] nspection $\t ep[\n e] tester, $\t ep$ 

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.

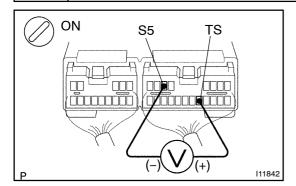
ок□

Checkandreplace A/Ccontrol assembly.

NG

**2**[]

Check[voltage[between[terminals[\$5]and[TS[of]A/C[control[assembly[connector.



#### PREPARATION:

Remove[A/C[control] assembly [with [connectors] still [connected. CHECK:

- (a) Turn ignition switch to ON.
- (b) Measure voltage between ferminals \$5 and \$\ \text{S5} and \$\ \text{S5}

#### OK:

Condition	Voltage
Sensor[subjected[]o[electric[]ight	0.8 -[4.3[V
Sensor@overed@by@a@loth	Below[0.8[V

#### HINT:

As[the[inspection[i]ght[is[inovedaway[from[the[sensor,[the]yoltage increases.]

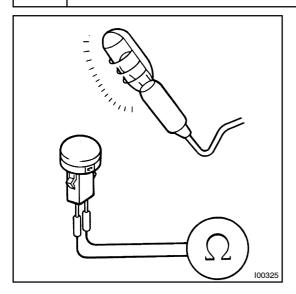
NG

Go to step 3.

OK

Proceed@inext@ircuit@nspection@shown@nproblem@symptoms@able@seepagepl-674).[However, if DTC B1421 is displayed, check and replace A/C control assembly.

3 | Check[solar[sensor.



#### PREPARATION:

Remove[\$olar[\$ensor[See[page[AC-65]]].

#### **CHECK:**

- (a) ☐ Cover[the[\$ensor[with[a]cloth.
- (b) Measure resistance between terminals fand 2 of solar sensor connector.

#### HINT:

 $Connect[\begin{tabular}{l} bositive[\]+)[\] ead[\begin{tabular}{l} bositive[\]+)[\] ead[\] erminal[\] and[\] egative[\]-)[\] ead[\] of [\] erminal[\] ensor.$ 

# OK:

Resistance  $\square \bowtie \Omega$  (no continuity)

## **PREPARATION:**

- (a) Remove the cloth from the solar sensor and subject the sensor of electric of the sensor.
- (b) Measure resistance.

#### OK:

## Resistance [ [Approx. 10 kΩ [ (continuity)

#### HINT:

As the electric ight is inoved away from the sensor, the resistance increases.

NG□

Replace solar sensor.

OK

4∏

Check[harness[and[connector[between]A/C[control[assembly[and[solar[sensor (See[page]N-32).

NG

Repair or replace harness or connector.

OK

Check and replace A/C control assembly.