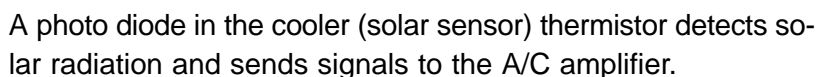


## CIRCUIT DESCRIPTION



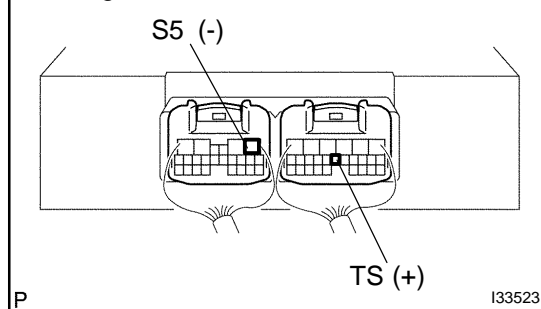
## WIRING DIAGRAM



## INSPECTION PROCEDURE

## 1 INSPECT AIR CONDITIONING AMPLIFIER(TS, TSP, S5)

SR-5 grade:



(a) Remove the A/C amplifier assy with the connectors being connected.

(b) Turn the ignition switch to ON

(c) Check voltage.

(1) SR-5 grade:

Measure voltage between terminal TS and S5 of the A/C amplifier connector when the cooler (solar sensor) thermistor is subjected to an electric light and when the cooler (solar sensor) thermistor is covered by a cloth.

**Voltage:****Sensor is subjected to electrical light: 0.8 - 3.3 V****Sensor is covered by a cloth: Below 0.8 V**

(2) Limited grade:

Measure voltage between terminal TSPA and S5 of the A/C amplifier connector when the cooler (solar sensor) thermistor is subjected to an electric light and when the cooler (solar sensor) thermistor is covered by a cloth.

**Voltage:****Sensor is subjected to electrical light: 0.8 - 3.3 V****Sensor is covered by a cloth: Below 0.8 V**

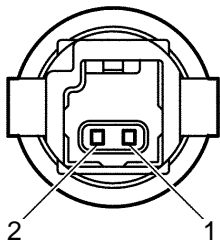
NG

**PROCEED TO NEXT CIRCUIT INSPECTION  
SHOWN ON PROBLEM SYMPTOMS TABLE**

OK

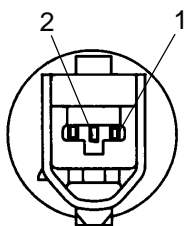
## 2 INSPECT COOLER (SOLAR SENSOR) THERMISTOR

SR-5 grade:



I33907

Limited grade:



I33908

- (a) Remove the cooler (solar sensor) thermistor.
- (b) Cover sensor with a cloth, and check and measure resistance between terminal 1 and 2 of the cooler (solar sensor) thermistor.

**Resistance:  $\infty \Omega$  (No continuity)**

**HINT:**

Connect the ohmmeter positive (+) lead to terminal 2 and the ohmmeter negative (-) lead to terminal 1 of the cooler (solar sensor) thermistor.

- (c) Remove the cloth from the cooler (solar sensor) thermistor and subject the sensor to the electric light and measure resistance between terminal 1 and 2 of the cooler (solar sensor) thermistor.

**Resistance: Approx. 10 k $\Omega$  (Continuity)**

**HINT:**

Connect the ohmmeter positive (+) lead to terminal 2 and the ohmmeter negative (-) lead to terminal 1 of the cooler (solar sensor) thermistor.

**NG**

**REPLACE COOLER (SOLAR SENSOR) THERMISTOR**

**OK**

## 3 CHECK HARNESS AND CONNECTOR(BETWEEN COOLER (SOLAR SENSOR) THERMISTOR AND AIR CONDITONING AMPLIFIER)

- (a) Check for open and short circuit in the harness and the connector between the cooler (solar sensor) thermistor and the A/C amplifier (See page [01-35](#) ).

**NG**

**REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**

## 4 CHECK DIAGNOSTIC TROUBLE CODE

- (a) Start up the DTC check mode.
- (b) Check that DTC 21 is not output again.

**Standard: DTC 21 is not output.**

**NG**

**SYSTEM OK**

**OK**

## CHECK AND REPLACE AIR CONDITIONING AMPLIFIER