

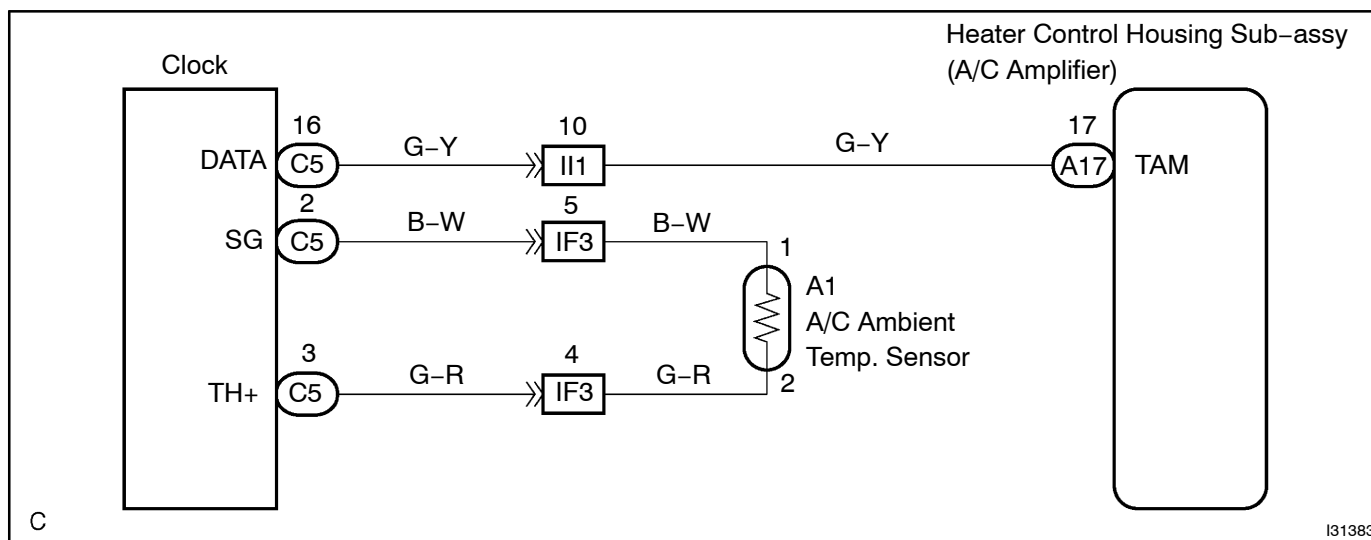
| DTC | 12 | AMBIENT TEMPERATURE SENSOR CIRCUIT |
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## CIRCUIT DESCRIPTION

This sensor detects the temperature outside the cabin and sends the appropriate signals to the A/C amplifier.

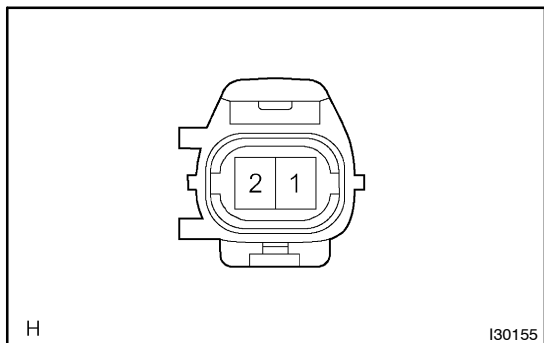
| DTC No. | Detection item                                      | Trouble Area   |
|---------|---|--|
| 12      | Open or short in ambient temperature sensor circuit | <ul style="list-style-type: none"> <li>Ambient temperature sensor</li> <li>Harness or connector between ambient temperature sensor and A/C amplifier, clock</li> <li>A/C amplifier</li> <li>Clock</li> </ul> |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

## 1 INSPECT COOLER (AMBIENT TEMP. SENSOR) THERMISTOR



- (a) Remove cooler (ambient temp. sensor) thermistor.
- (b) Measure resistance between terminals 1 and 2 of cooler (ambient temp. sensor) connector at each temperature.

**Resistance:**

at 25 °C (77 °F) : 1.65 – 1.75 kΩ

at 40 °C (104 °F) : 0.85 – 1 kΩ

**HINT:**

As the temperature increases, the resistance decreases.

NG

**REPLACE COOLER (AMBIENT TEMP. SENSOR) THERMISTOR**

OK

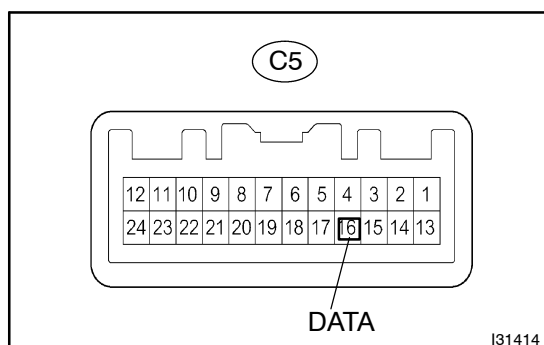
## 2 CHECK HARNESS AND CONNECTOR(BETWEEN COOLER(AMBIENT TEMP.SENSOR)THERMISTOR AND CLOCK ASSY)

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**REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

## 3 INSPECT CLOCK ASSY



- (a) Remove clock assy with connectors still connected.
- (b) Turn ignition switch ON.
- (c) Measure waveform between terminals DATA and body ground of clock assy connector at each temperature.

**OK: Pulse generation****HINT:**

As the temperature increases, the voltage decreases.

NG

**CHECK AND REPLACE CLOCK ASSY**

OK

## 4 CHECK HARNESS AND CONNECTOR(BETWEEN CLOCK ASSY AND HEATER CONTROL HOUSING SUB-ASSY)

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**REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

## CHECK AND REPLACE HEATER CONTROL HOUSING SUB-ASSY