DI882−02

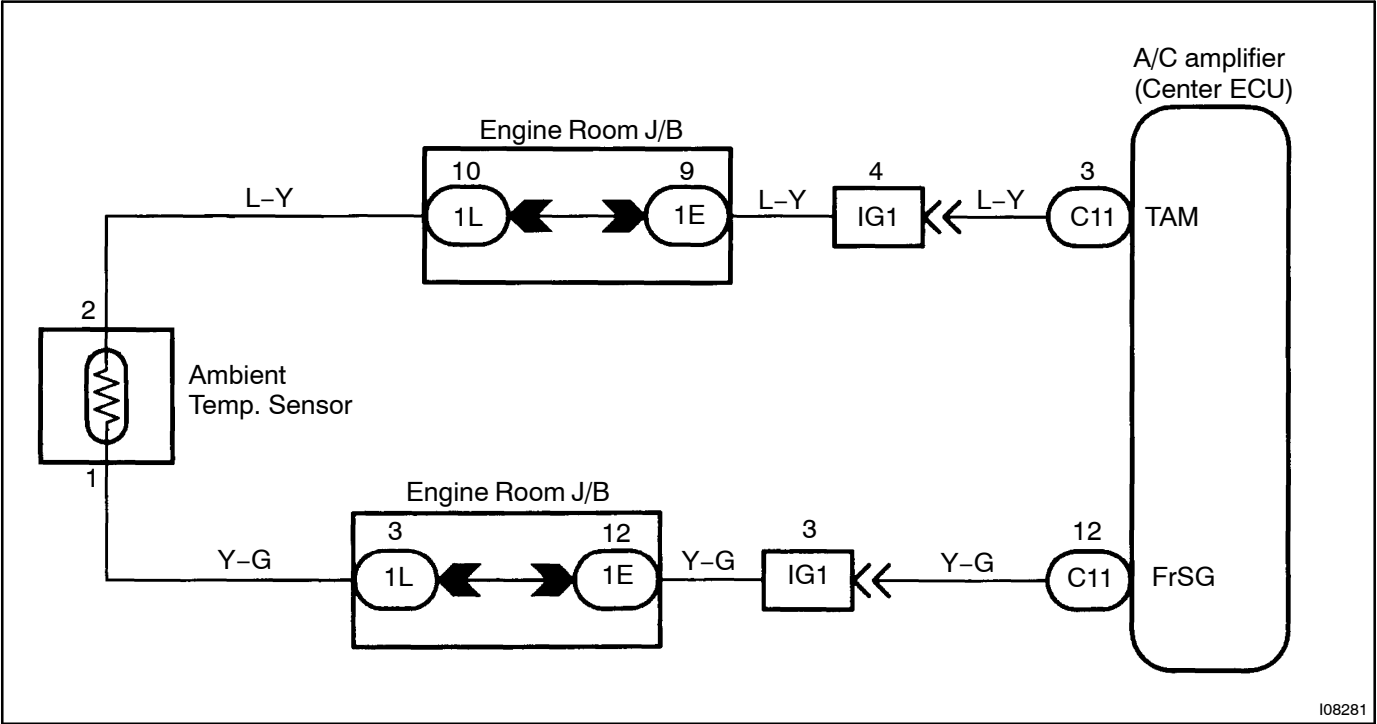| DTC	RrDEF, B/L	Ambient Temperature Sensor Circuit

DTC	12	Ambient Temperature Sensor Circuit

CIRCUIT DESCRIPTION

This sensor detects the ambient temperature and sends the appropriate signals to the A/C amplifier.
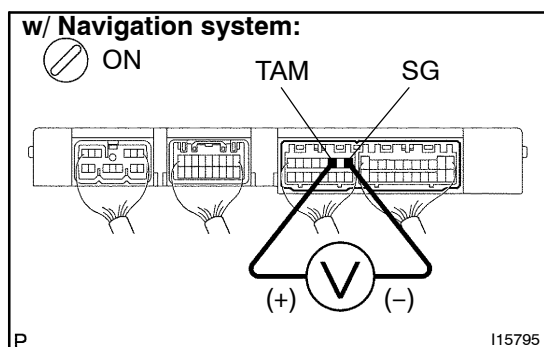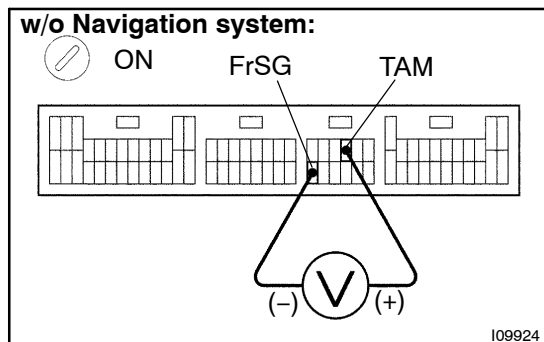
Blinking light	Detection Item	Trouble Area
RrDEF B/L	Open or short in ambient temperature sensor circuit.	• Ambient temperature sensor • Harness or connector between ambient temperature sensor and A/C amplifier • A/C amplifier

DTC No.	Detection Item	Trouble Area
12	Open or short in ambient temperature sensor circuit.	• Ambient temperature sensor • Harness or connector between ambient temperature sensor and A/C amplifier • A/C amplifier

WIRING DIAGRAM

INSPECTION PROCEDURE

1	Check voltage between terminals TAM and FrSG (or SG) of A/C amplifier.

w/o Navigation system:

ON   FrSG   TAM

(−) V (+)

I09924

w/ Navigation system:

ON   TAM   SG

(+) V (−)

P   I15795

PREPARATION:
Remove A/C amplifier with connectors still connected.
CHECK:
(a)   Turn ignition switch to ON.
(b)   Measure voltage between terminals TAM and FrSG (or SG) of A/C amplifier connector at each temperature.
OK:
   Voltage :
   at 25°C (77°F) : 1.35 − 1.75 V
   at 40°C (104°F) : 0.85 − 1.25 V
HINT:
As the temperature increases, the voltage decreases.
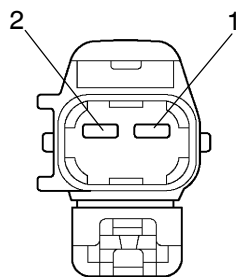
NG	Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI−130). However, if RrDEF and B/L indicators light up (or DTC 12 displayed), check and replace A/C amplifier.

2	Check ambient temperature sensor.

I08311

PREPARATION:
Disconnect ambient temperature sensor connector.
CHECK:
Measure resistance between terminals 1 and 2 of ambient temperature sensor connector at each temperature.
OK:

> **Resistance :**
> **at 25° C (77° F) : 1.6 – 1.8 kΩ**
> **at 50° C (122° F) : 0.5 – 0.7 kΩ**

HINT:
As the temperature increases, the resistance decreases.
NOTICE:
When installing the ambient temperature sensor, be sure to connect the sensor connector before connecting the battery.

NG	Replace ambient temperature sensor.

OK

3	Check harness and connector between ambient temperature sensor and A/C amplifier (See page IN–34).

NG	Repair or replace harness or connector.

OK

Check and replace and A/C amplifier.