DI3CZ–03

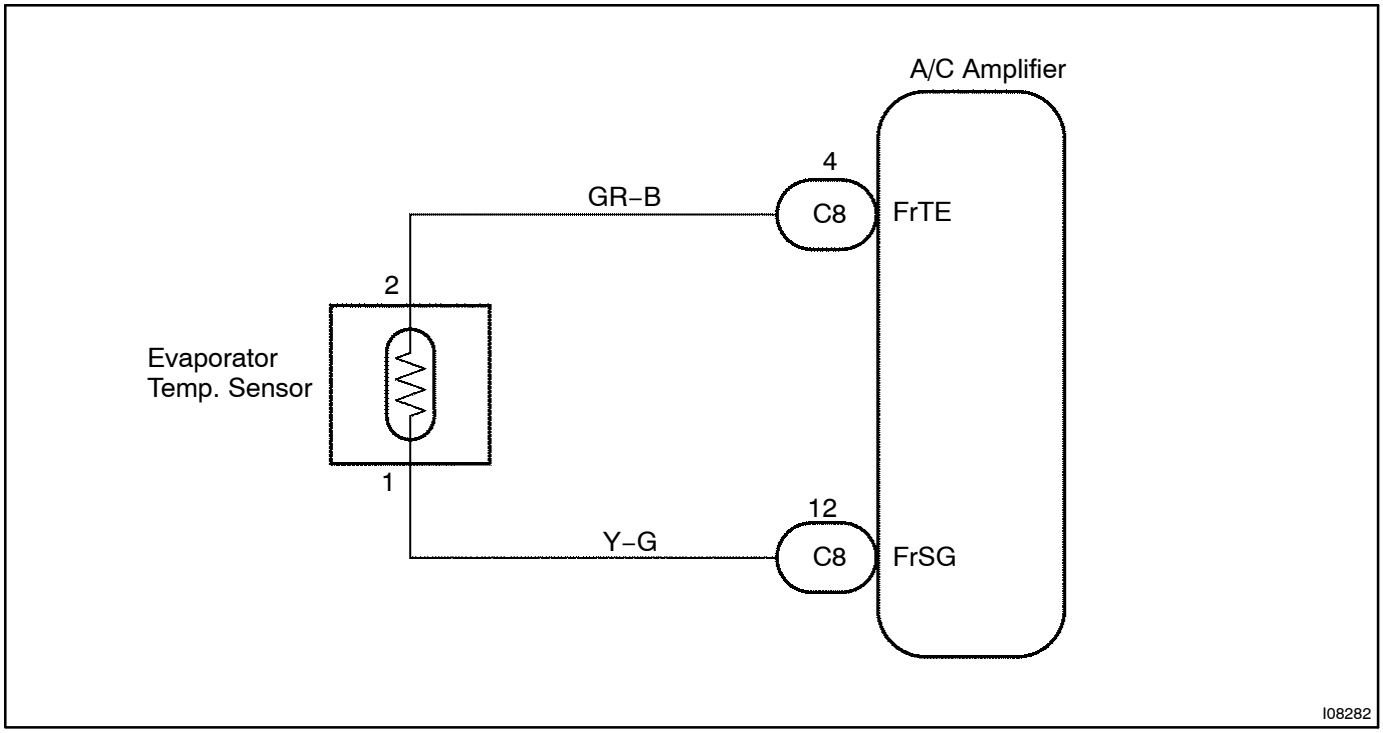
DTC	RrDEF, FOOT	Evaporator Temperature Sensor Circuit

CIRCUIT DESCRIPTION

This sensor detects the temperature inside the cooling unit and sends the appropriate signals to the A/C amplifier.

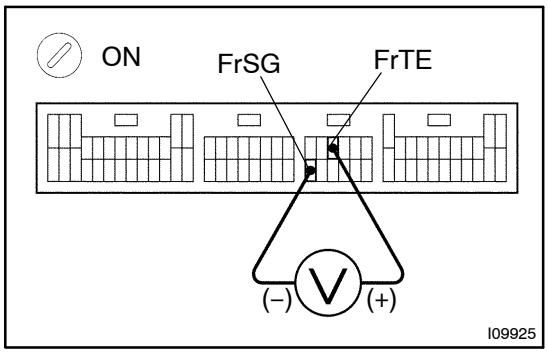
Blinking light	Detection Item	Trouble Area
RrDEF FOOT	Open or short in evaporator temperature sensor circuit.	• Evaporator temperature sensor • Harness or connector between evaporator temperature sensor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminals FrTE and FrSG of A/C amplifier connector.



PREPARATION:

Remove A/C amplifier with connectors still connected.

CHECK:

(a) Turn ignition switch to ON.

(b) Measure voltage between terminals FrTE and FrSG of A/C amplifier connector at each temperature.

OK:

Voltage :
at 0˚C (32˚F) : 2.0 – 2.4 V
at 15˚C (59˚F) : 1.4 – 1.8 V

HINT:

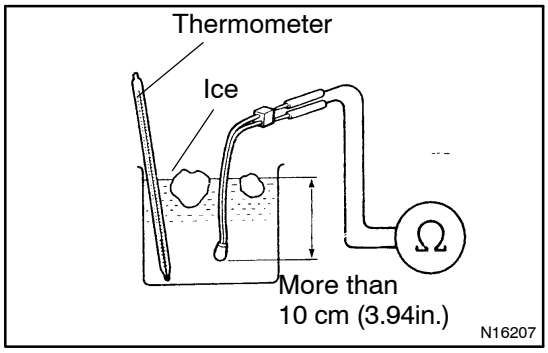
As the temperature increases, the voltage decreases.

NG → **Go to step 2.**

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI–633). However, if RrDEF and FOOT indicators light up, check and replace A/C amplifier.

2	Check evaporator temperature sensor.



PREPARATION:
Remove evaporator temperature sensor
(See page AC–23).

CHECK:
Measure resistance between terminals 1 and 2 of evaporator temperature sensor connector at each temperature.

OK:

Resistance :
at 0°C (32°F) : 4.5 – 5.2 kΩ
at 15°C (59°F) : 2.0 – 2.7 kΩ

HINT:
As the temperature increases, the resistance decreases.

NG → **Replace evaporator temperature sensor.**

OK

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

NG → **Repair or replace harness or connector.**

OK

Check and replace A/C amplifier.