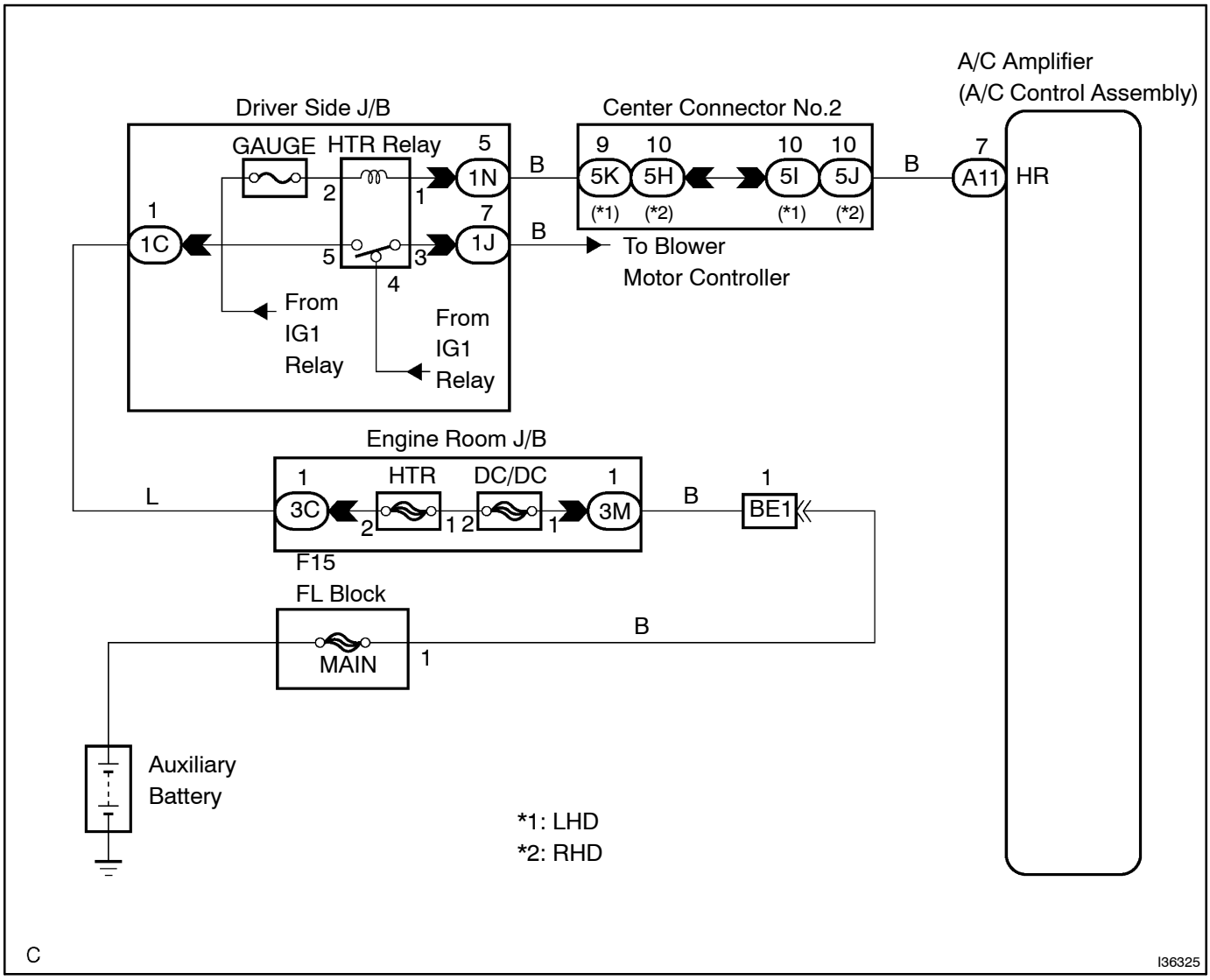
HEATER RELAY CIRCUIT

CIRCUIT DESCRIPTION

The heater relay is turned on by signals from the A/C amplifier. It supplies power to the blower motor controller.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK FUSE(HTR)

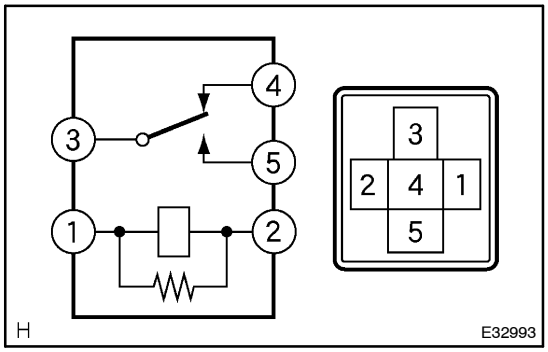
(a) Remove the HTR fuse from the engine room J/B.
(b) Measure the resistance according to the value(s) in the table below.
Standard:

Tester item	Condition	Specified condition
HTR fuse	Always	Below 1 Ω

NG → **CHECK FOR SHORT IN ALL HARNESS AND COMPONENTS CONNECTED FAILURE FUSE(HTR FUSE)**

OK

2	INSPECT HEATER RELAY



(a) Measure the resistance according to the value(s) in the table below.
Standard:

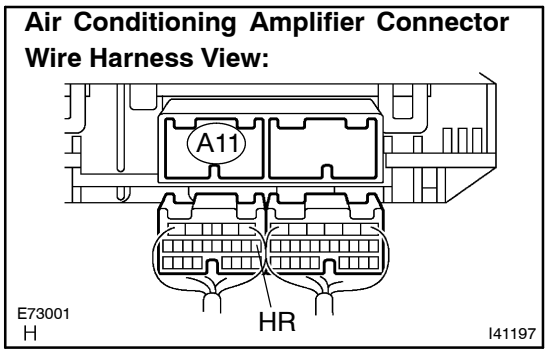
Tester connection	Condition	Specified condition
3 – 5	Always	10 kΩ or higher
3 – 5	When battery voltage applied to terminals 1 and 2	Below 1 Ω
3 – 4	Always	Below 1 Ω
3 – 5	When battery voltage applied to terminals 1 and 2	10 kΩ or higher

NG → **REPLACE HEATER RELAY**

OK

3	CHECK HARNESS AND CONNECTOR(BATTERY – AIR CONDITIONING AMPLIFIER) (SEE PAGE 01–46)

Air Conditioning Amplifier Connector Wire Harness View:



(a) Measure the voltage according to the value(s) in the table below.

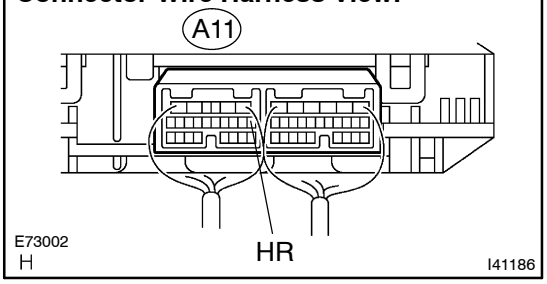
Tester connection	Condition	Specified condition
A11–7 (HR) – Body ground	Power switch ON	10 to 14 V

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

4	CHECK HARNESS AND CONNECTOR(AIR CONDITIONING AMPLIFIER – BATTERY) (SEE PAGE 01–46)

Air Conditioning Amplifier
Connector Wire Harness View:



(a) Remove the A/C amplifier with connectors still connected.
(b) Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Standard
A11–7 (HR) – Body ground	Power switch position OFF Blower switch position OFF	Below 1 V
A11–7 (HR) – Body ground	Power switch position ON Blower switch position ON	Below 1 V
A11–7 (HR) – Body ground	Power switch position ON Blower switch position OFF	10 to 14 V

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–1035)