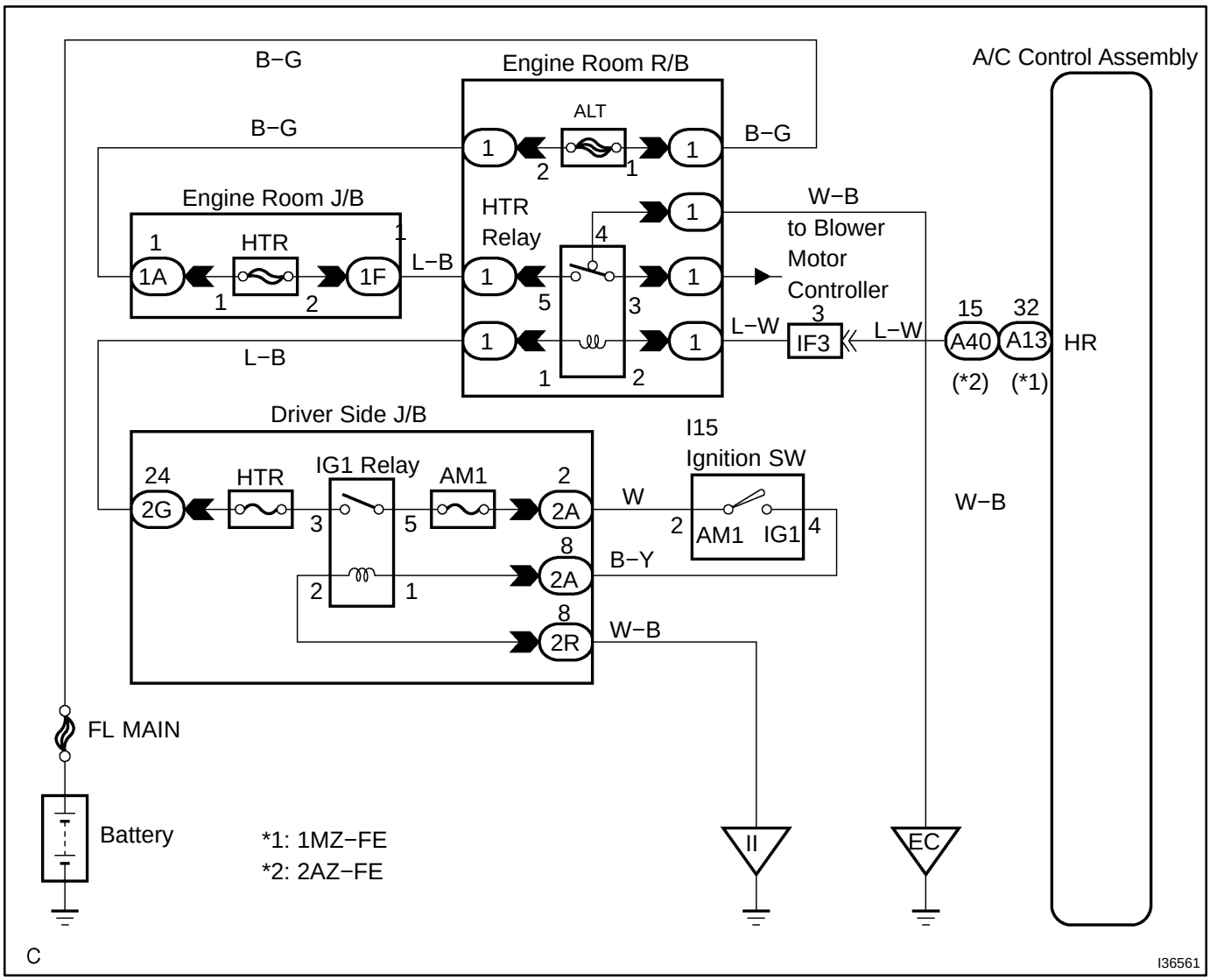
HEATER RELAY CIRCUIT

CIRCUIT DESCRIPTION

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

WIRING DIAGRAM



INSPECTION PROCEDURE

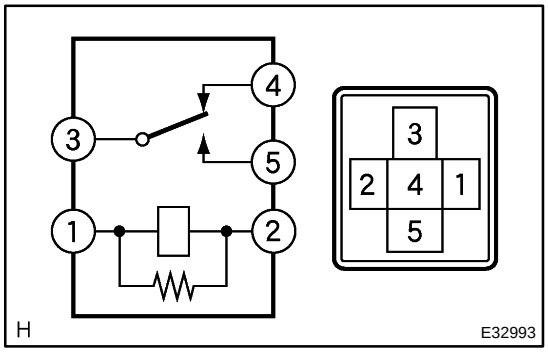
1	CHECK FUSE(HTR)

(a) Remove the HTR fuse from the engine room J/B and driver side J/B.
(b) Check that the continuity exists of HTR fuse.

NG → REPLACE FUSE

OK

2	INSPECT HEATER BLOWER MOTOR RELAY ASSY



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

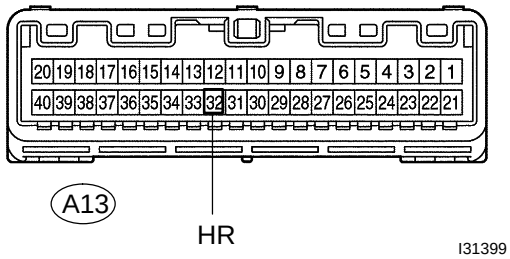
Tester connected	Condition	Specified condition
3−5	Always	10 kΩ or higher
3−5	When battery voltage applied to terminals 1 and 2	Below 1.0 Ω
3−4	Always	Below 1.0 Ω
3−4	When battery voltage applied to terminals 1 and 2	10 kΩ or higher

NG → REPLACE HEATER BLOWER MOTOR RELAY ASSY

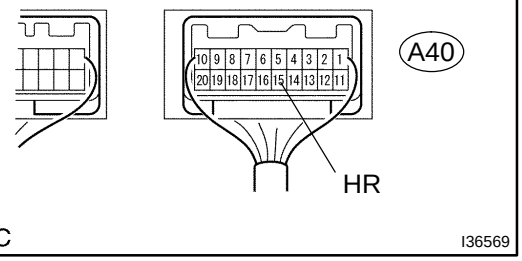
OK

3	CHECK HARNESS AND CONNECTOR(HEATER CONTROL HOUSING SUB−ASSY − BATTERY)

1MZ−FE: A/C Control Assembly Connector Wire Harness View:



2AZ−FE: A/C Control Assembly Connector Wire Harness View:



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

(b) 1MZ−FE:
Measure voltage according to the value(s) in the table below.
Standard:

Tester connected	Condition	Specified condition
A13−32 (HR) − Body ground	Ignition switch OFF	0 V
A13−32 (HR) − Body ground	Ignition switch ON (Blower switch ON)	Below 1.0 V
A13−32 (HR) − Body ground	Ignition switch ON (Blower switch OFF)	10 to 14 V

(c) 2AZ−FE:
Measure voltage according to the value(s) in the table below.
Standard:

Tester connected	Condition	Specified condition
A40−15 (HR) − Body ground	Ignition switch OFF	0 V
A40−15 (HR) − Body ground	Ignition switch ON (Blower switch ON)	Below 1.0 V
A40−15 (HR) − Body ground	Ignition switch ON (Blower switch OFF)	10 to 14 V

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

OK

4	CHECK HARNESS AND CONNECTOR(BLOWER W/FAN MOTOR, BLOWER MOTOR CONTROL − BATTERY)

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE