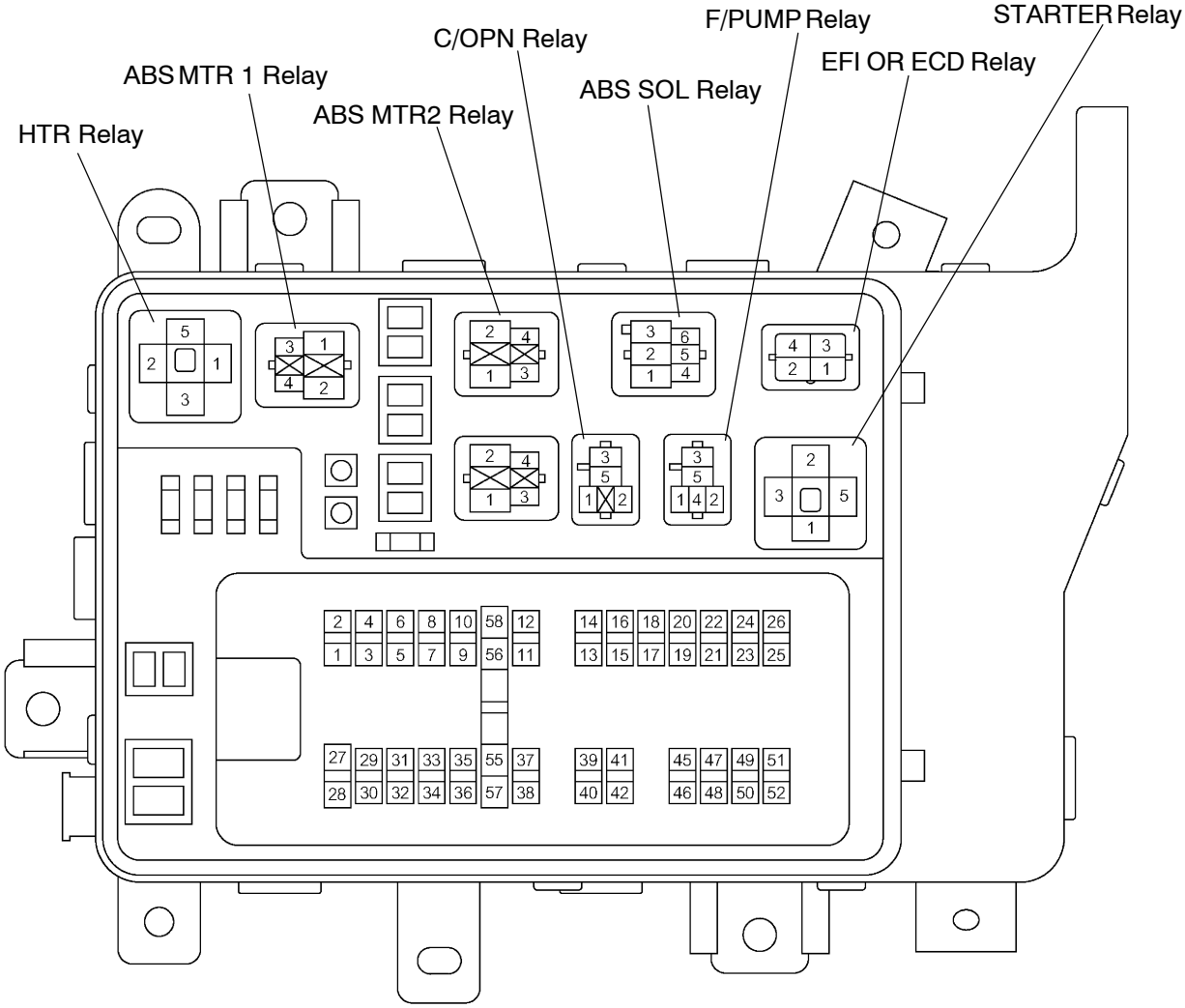
BE2EJ–02

INSPECTION

1. INSPECT ENGINE ROOM R/B CIRCUIT

Engine Room R/B:



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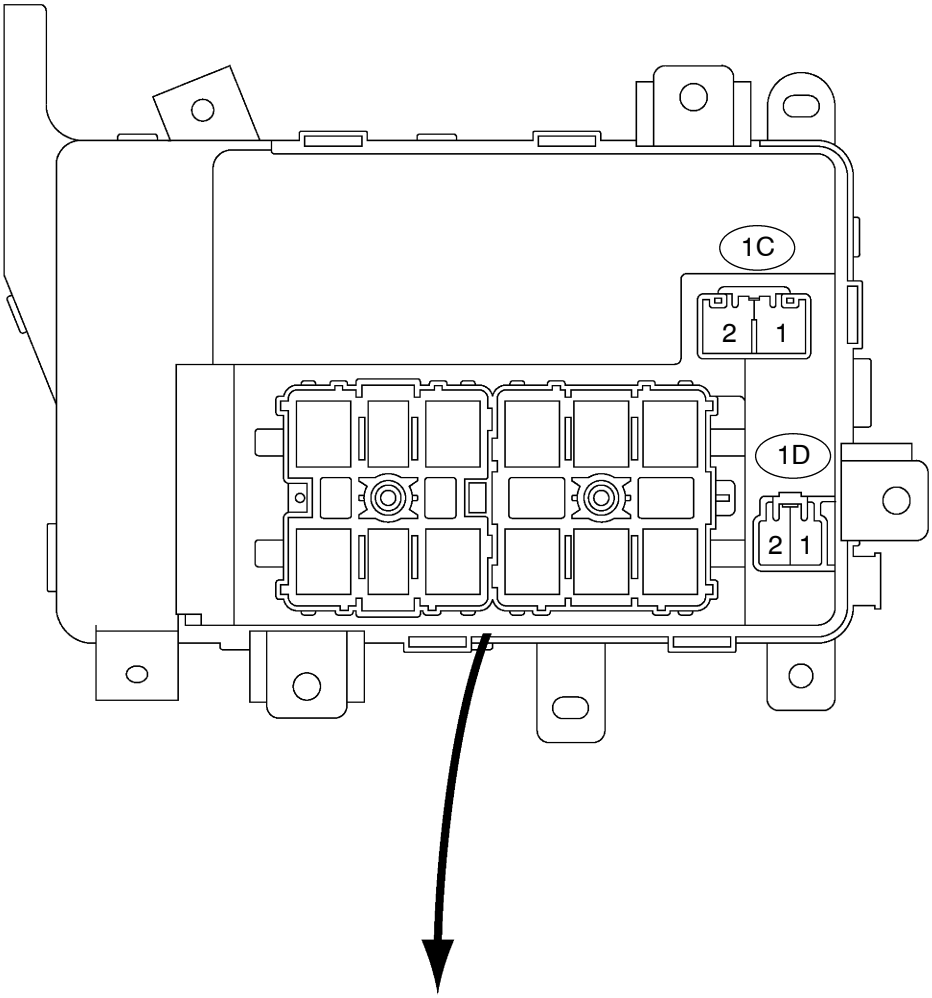
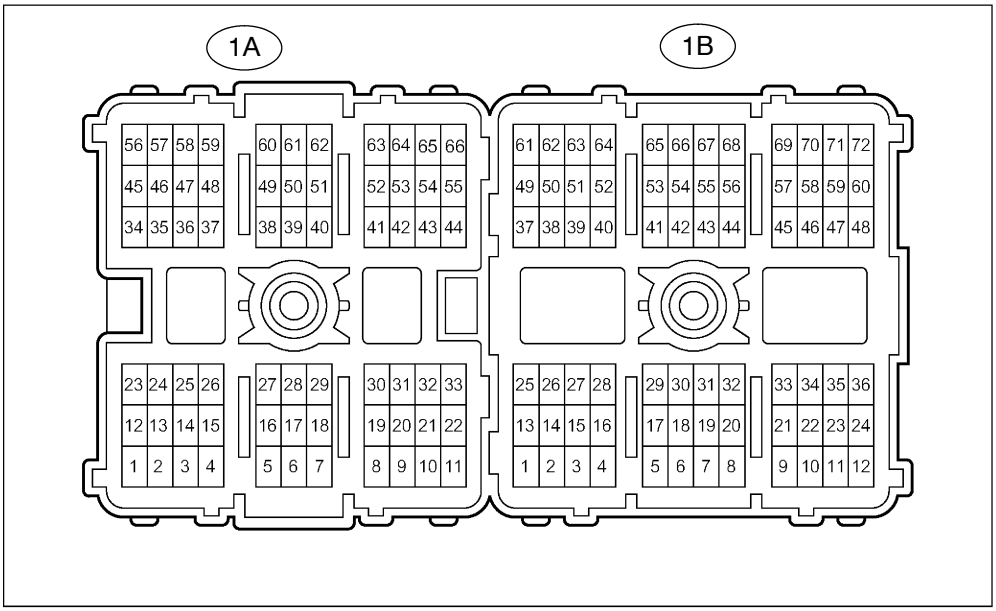
Engine Room R/B (Back Side):





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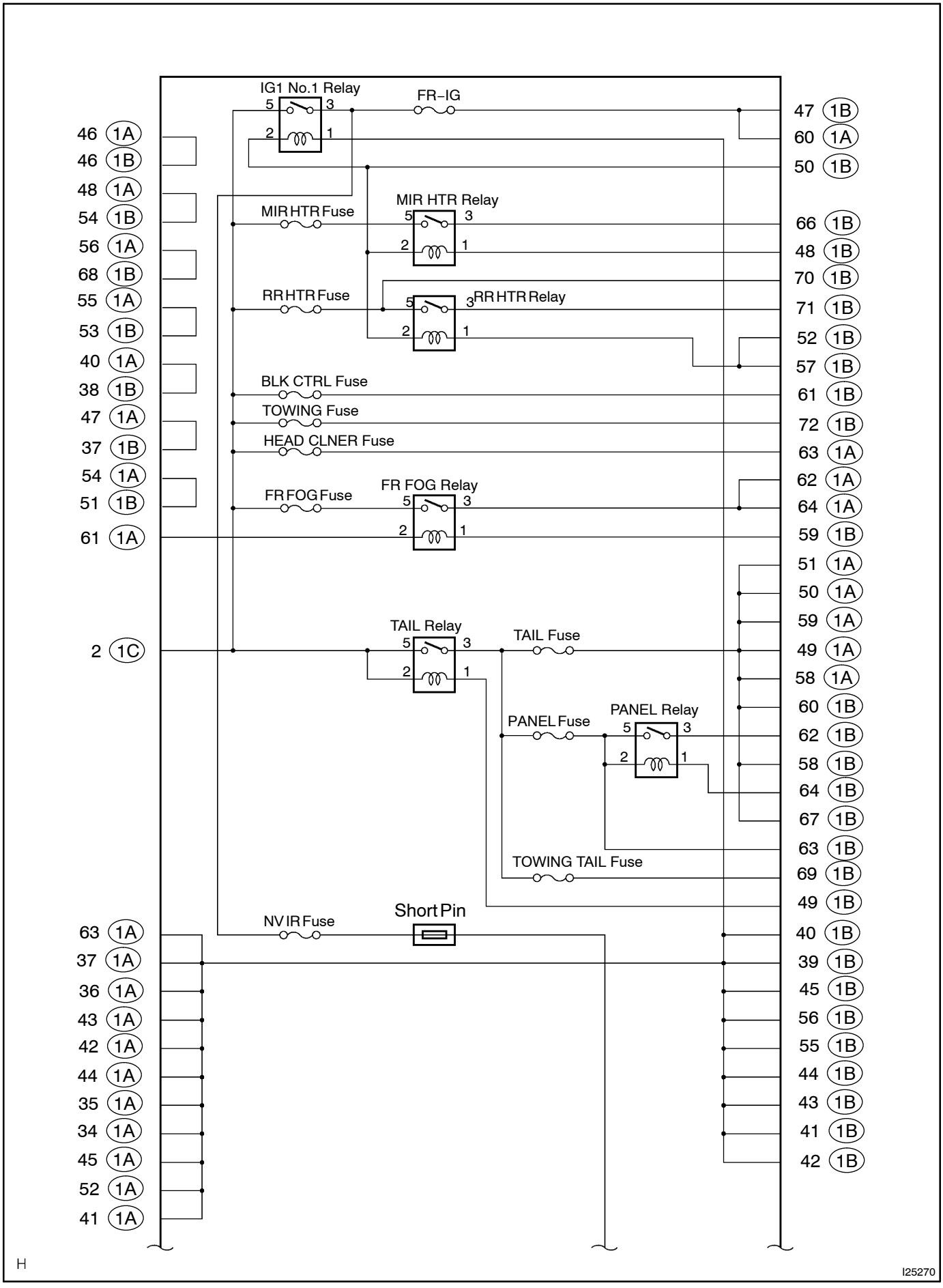
IG1 No.1 Relay
FR–IG
MIR HTR Relay
MIR HTR Fuse
RR HTR Fuse
RR HTR Relay
BLK CTRL Fuse
TOWING Fuse
HEAD CLNER Fuse
FR FOG Fuse
FR FOG Relay
TAIL Relay
TAIL Fuse
PANEL Fuse
PANEL Relay
TOWING TAIL Fuse
Short Pin
NV IR Fuse
46 1A
46 1B
48 1A
54 1B
56 1A
68 1B
55 1A
53 1B
40 1A
38 1B
47 1A
37 1B
54 1A
51 1B
61 1A
2 1C
63 1A
37 1A
36 1A
43 1A
42 1A
44 1A
35 1A
34 1A
45 1A
52 1A
41 1A
47 1B
60 1A
50 1B
66 1B
48 1B
70 1B
71 1B
52 1B
57 1B
61 1B
72 1B
63 1A
62 1A
64 1A
59 1B
51 1A
50 1A
59 1A
49 1A
58 1A
60 1B
62 1B
58 1B
64 1B
67 1B
63 1B
69 1B
49 1B
40 1B
39 1B
45 1B
56 1B
55 1B
44 1B
43 1B
41 1B
42 1B
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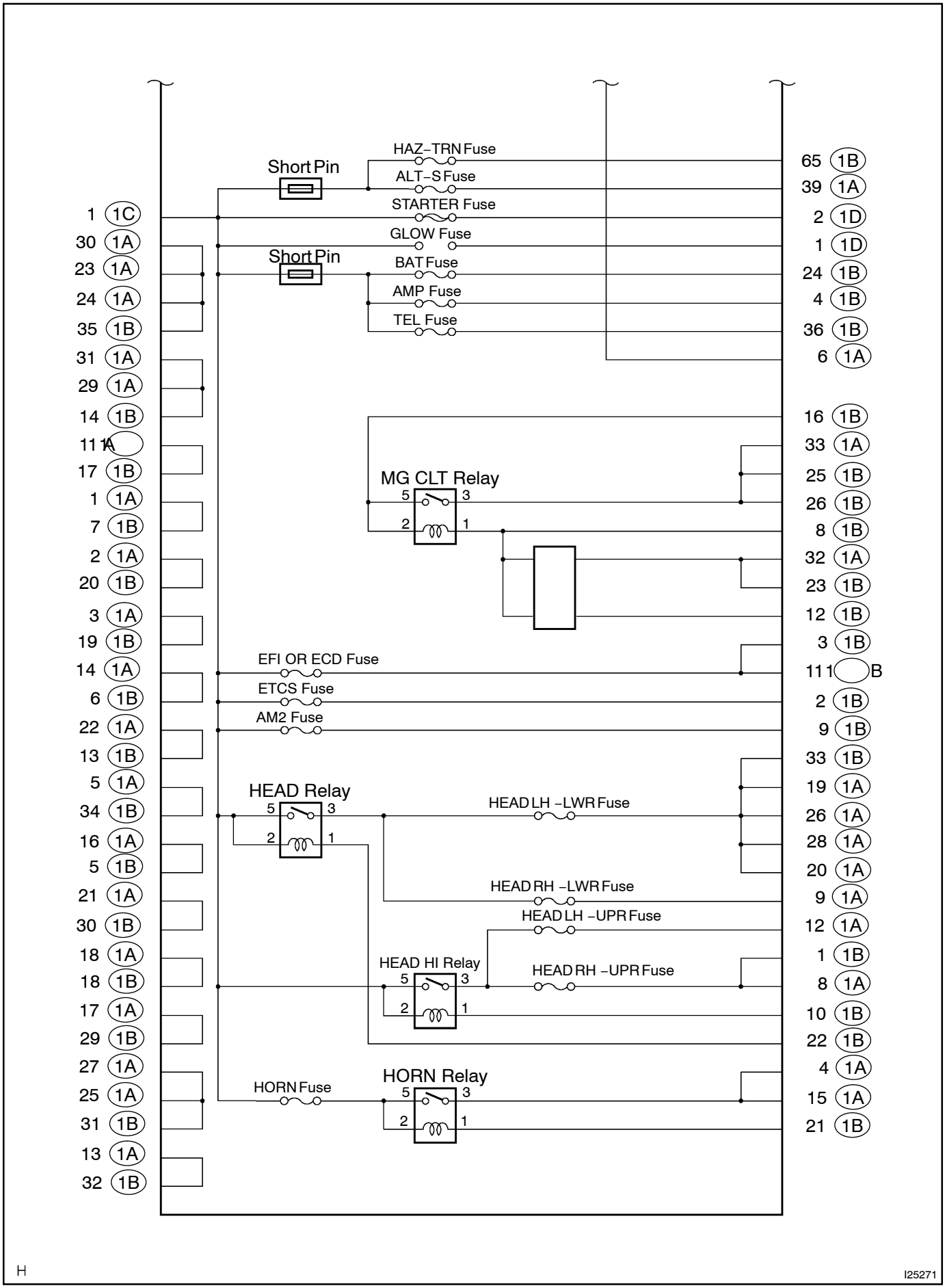
Short Pin
Short Pin
HAZ–TRN Fuse
ALT–S Fuse
STARTER Fuse
GLOW Fuse
BAT Fuse
AMP Fuse
TEL Fuse
MG CLT Relay
EFI OR ECD Fuse
ETCS Fuse
AM2 Fuse
HEAD Relay
HEAD LH –LWR Fuse
HEAD RH –LWR Fuse
HEAD LH –UPR Fuse
HEAD HI Relay
HEAD RH –UPR Fuse
HORN Relay
HORN Fuse
1 1C
30 1A
23 1A
24 1A
35 1B
31 1A
29 1A
14 1B
11 1A
17 1B
1 1A
7 1B
2 1A
20 1B
3 1A
19 1B
14 1A
6 1B
22 1A
13 1B
5 1A
34 1B
16 1A
5 1B
21 1A
30 1B
18 1A
18 1B
17 1A
29 1B
27 1A
25 1A
31 1B
13 1A
32 1B
65 1B
39 1A
2 1D
1 1D
24 1B
4 1B
36 1B
6 1A
16 1B
33 1A
25 1B
26 1B
8 1B
32 1A
23 1B
12 1B
3 1B
11 1B
2 1B
9 1B
33 1B
19 1A
26 1A
28 1A
20 1A
9 1A
12 1A
1 1B
8 1A
10 1B
22 1B
4 1A
15 1A
21 1B
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(a) Remove the fuse from the junction block and inspect the connector on junction block side.

Fuse	Tester connection	Condition	Specified condition
TOWING	1 − Ground	Constant	Battery positive voltage
MIR HTR	3 − Ground	Constant	Battery positive voltage
RR HTR	5 − Ground	Constant	Battery positive voltage
HAZ−TRN	7 − Ground	Constant	Battery positive voltage
ALT−S	9 − Ground	Constant	Battery positive voltage
NV−IR	13 − Ground	Constant	Battery positive voltage
FR FOG	13 − Ground	Constant	Battery positive voltage
BRK CTRL	15 − Ground	Constant	Battery positive voltage
HEAD CLNER	17 − Ground	Ignition switch ON	Battery positive voltage
FR−IG	19 − Ground	Ignition switch ON	Battery positive voltage
PANEL	21 − Ground	Light control switch HEAD or TAIL	Battery positive voltage
TOWING TAIL	23 − Ground	Light control switch HEAD or TAIL	Battery positive voltage
TAIL	25 − Ground	Light control switch HEAD or TAIL	Battery positive voltage
BAT	29 − Ground	Constant	Battery positive voltage
TEL	31 − Ground	Constant	Battery positive voltage
AMP	33 − Ground	Constant	Battery positive voltage
EFI or ECD NO.1	35 − Ground	Constant	Battery positive voltage
AM2	37 − Ground	Constant	Battery positive voltage
ETCS	39 − Ground	Constant	Battery positive voltage
HORN	41 − Ground	Constant	Battery positive voltage
HEAD LH−UPR	51 − Ground	Light control switch HI or Flash	Battery positive voltage
HEAD RH−UPR	49 − Ground	Light control switch HI or Flash	Battery positive voltage
HEAD LH−LWR	47 − Ground	Light control switch HEAD	Battery positive voltage
HEAD RH−LWR	45 − Ground	Light control switch HEAD	Battery positive voltage
ST1	1 − Ground	Constant	Battery positive voltage
AHC	1 − Ground	Constant	Battery positive voltage
ABS NO.1	1 − Ground	Constant	Battery positive voltage
ABS NO.2	1 − Ground	Constant	Battery positive voltage
STARTER	1 − Ground	Constant	Battery positive voltage

If the circuit is not as specified, inspect the circuits connected to other parts.

(b) Remove the relay from the junction block and inspect the connector on junction block side.

Relay	Tester connection	Condition	Specified condition
AHC	1 − Ground	Ignition switch ON	Battery positive voltage
ABS SOL	1 − Ground	Ignition switch ON	Battery positive voltage
ABS MTR1	1 − Ground	Constant	Battery positive voltage
ABS MTR2	1 − Ground	Ignition switch ON	Battery positive voltage
STARTER	5 − Ground	Constant	Continuity
STARTER	2 − Ground	Ignition switch ON	Battery positive voltage
EFI or ECD	3 − Ground	Constant	Battery positive voltage
C/OPN SPIL VLV	5 − Ground	Constant	Battery positive voltage
C/OPN SPIL VLV	2 − Ground	Ignition switch ON	Continuity

F/P PUMP ST CUT VISC MG 2 − Ground	Ignition switch ON	Battery positive voltage
F/P PUMP ST CUT VISC MG 3 − Ground	Ignition switch ON	Continuity
HTR 5 − Ground	Constant	Battery positive voltage
HTR 1 − Ground	Ignition switch ON	Continuity

If the circuit is not as specified, inspect the circuits connected to other parts.

(c) Inspect Engine Room Junction Block Inner Cercuit:
Inspect the connector on junction block side.

HINT:

Remove the junction block from the vehicle.

Relay	Tester connection	Condition	Specified condition
IG1 NO.1	50 (1B) − 40 (1B)	Constant	Continuity
IG1 NO.1	50 (1B) − 39 (1B)	Constant	Continuity
IG1 NO.1	50 (1B) − 45 (1B)	Constant	Continuity
IG1 NO.1	50 (1B) − 56 (1B)	Constant	Continuity
IG1 NO.1	50 (1B) − 55 (1B)	Constant	Continuity
IG1 NO.1	50 (1B) − 44 (1B)	Constant	Continuity
IG1 NO.1	50 (1B) − 43 (1B)	Constant	Continuity
IG1 NO.1	50 (1B) − 41 (1B)	Constant	Continuity
IG1 NO.1	50 (1B) − 42 (1B)	Constant	Continuity
IG1 NO.1	2 (1C) − 47 (1B)	Apply B+ between terminals 50 (1B) and 40 (1B).	Continuity
IG1 NO.1	2 (1C) − 60 (1A)	Apply B+ between terminals 50 (1B) and 40 (1B).	Continuity
MIR HTR	50 (1B) − 48 (1B)	Constant	Continuity
MIR HTR	2 (1C) − 66 (1B)	Apply B+ between terminals 50 (1B) and 48 (1B).	Continuity
RR HTR	50 (1B) − 52 (1B)	Constant	Continuity
RR HTR	50 (1B) − 57 (1B)	Constant	Continuity
RR HTR	2 (1C) − 71 (1B)	Apply B+ between terminals 50 (1B) and 52 (1B).	Continuity
RR HTR	70 (1B) − 71 (1B)	Apply B+ between terminals 50 (1B) and 52 (1B).	Continuity
FR FOG	61 (1A) − 59 (1B)	Constant	Continuity
FR FOG	2 (1C) − 62 (1A)	Apply B+ between terminals 61 (1A) and 59 (1B).	Continuity
FR FOG	2 (1C) − 64 (1A)	Apply B+ between terminals 61 (1A) and 59 (1B).	Continuity
TAIL	2 (1C) − 49 (1B)	Constant	Continuity
TAIL	2 (1C) − 51 (1A)	Apply B+ between terminals 2 (1C) and 49 (1B).	Continuity
TAIL	2 (1C) − 50 (1A)	Apply B+ between terminals 2 (1C) and 49 (1B).	Continuity
TAIL	2 (1C) − 59 (1A)	Apply B+ between terminals 2 (1C) and 49 (1B).	Continuity
TAIL	2 (1C) − 49 (1A)	Apply B+ between terminals 2 (1C) and 49 (1B).	Continuity
TAIL	2 (1C) − 58 (1A)	Apply B+ between terminals 2 (1C) and 49 (1B).	Continuity
TAIL	2 (1C) − 60 (1B)	Apply B+ between terminals 2 (1C) and 49 (1B).	Continuity
TAIL	2 (1C) − 58 (1B)	Apply B+ between terminals 2 (1C) and 49 (1B).	Continuity
TAIL	2 (1C) − 67 (1B)	Apply B+ between terminals 2 (1C) and 49 (1B).	Continuity
TAIL	2 (1C) − 69 (1B)	Apply B+ between terminals 2 (1C) and 49 (1B).	Continuity
PANEL	2 (1C) − 64 (1B)	Apply B+ between terminals 2 (1C) and 49 (1B).	Continuity

HEAD	1 (1C) − 22 (1B)	Constant	Continuity
HEAD	1 (1C) − 33 (1B)	Apply B+ between terminals 1 (1C) and 22 (1B).	Continuity
HEAD	1 (1C) − 19 (1A)	Apply B+ between terminals 1 (1C) and 22 (1B).	Continuity
HEAD	1 (1C) − 26 (1A)	Apply B+ between terminals 1 (1C) and 22 (1B).	Continuity
HEAD	1 (1C) − 28 (1A)	Apply B+ between terminals 1 (1C) and 22 (1B).	Continuity
HEAD	1 (1C) − 20 (1A)	Apply B+ between terminals 1 (1C) and 22 (1B).	Continuity
HEAD	1 (1C) − 9 (1A)	Apply B+ between terminals 1 (1C) and 22 (1B).	Continuity
HEAD HI	1 (1C) − 10 (1B)	Constant	Continuity
HEAD HI	1 (1C) − 12 (1A)	Apply B+ between terminals 1 (1C) and 10 (1B).	Continuity
HEAD HI	1 (1C) − 1 (1B)	Apply B+ between terminals 1 (1C) and 10 (1B).	Continuity
HEAD HI	1 (1C) − 8 (1A)	Apply B+ between terminals 1 (1C) and 10 (1B).	Continuity
HORN	1 (1C) − 21 (1B)	Constant	Continuity
HORN	1 (1C) − 4 (1A)	Apply B+ between terminals 1 (1C) and 21 (1B).	Continuity
HORN	1 (1C) − 15 (1A)	Apply B+ between terminals 1 (1C) and 21 (1B).	Continuity

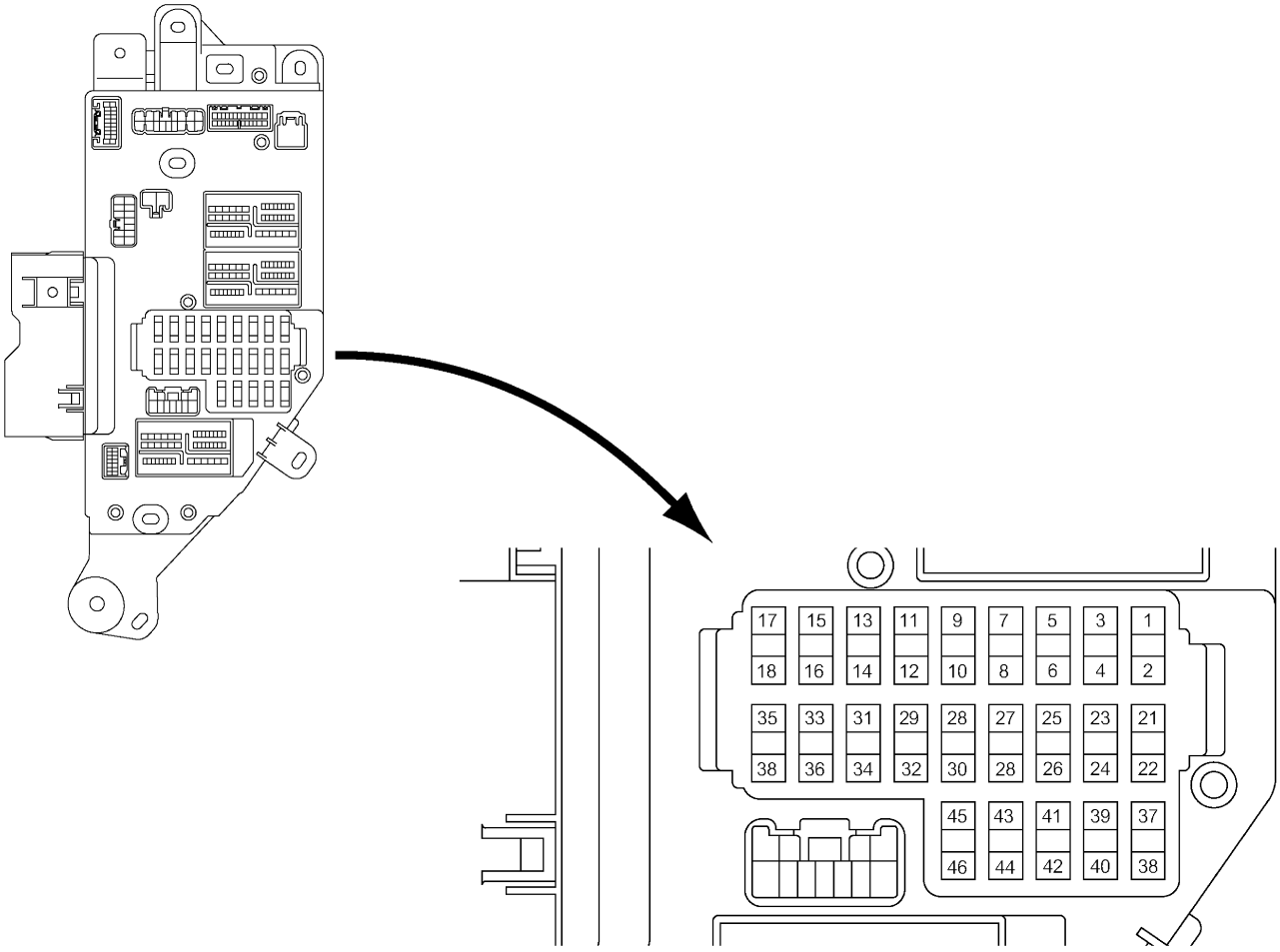
If the circuit is not as specified, replace it with junction block assembly.

HINT:

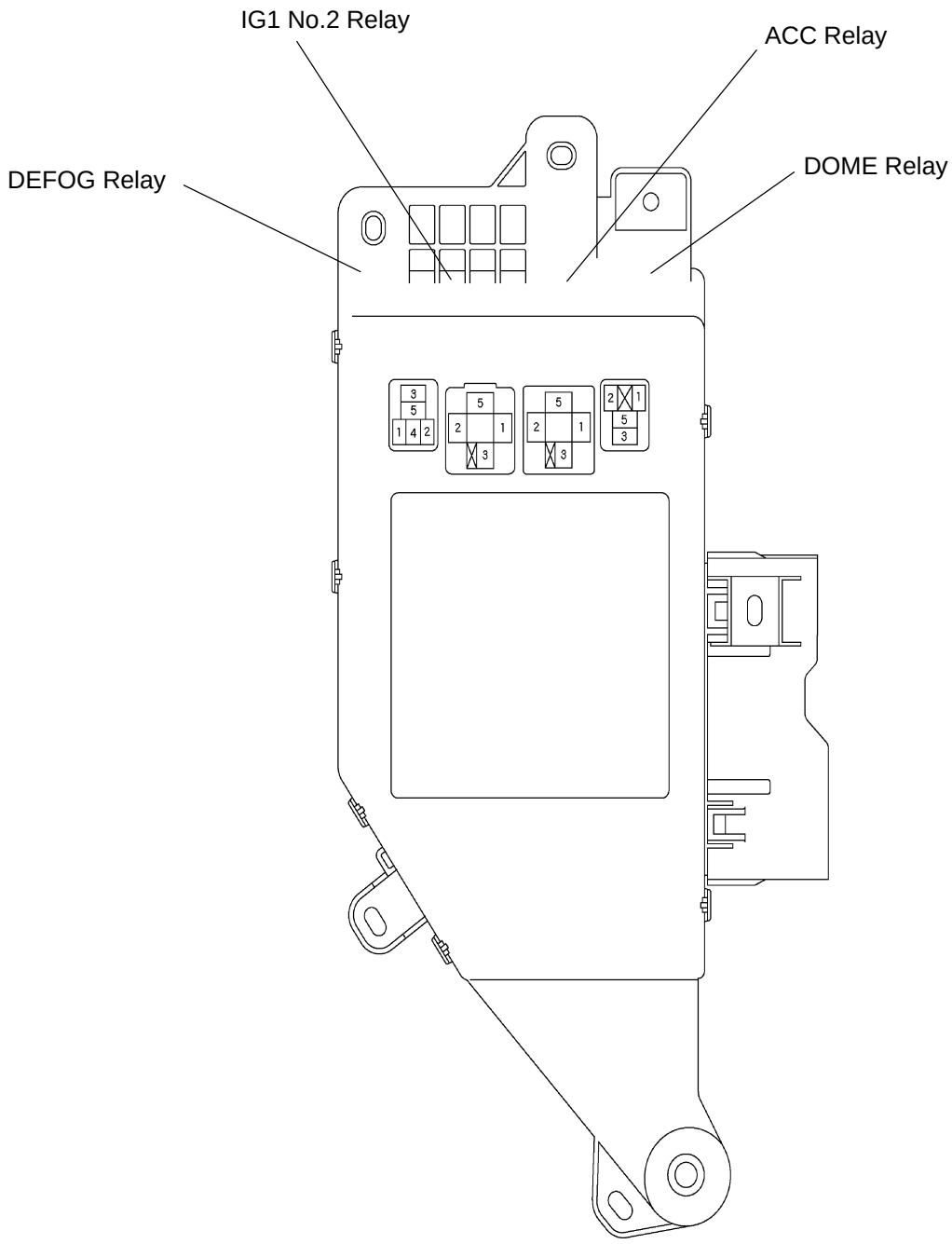
The relay is built in engine room junction block. Also the relay is constructed with a relay block that is in the junction block as a unit. To disconnect the wire harness connecting with relay block is impossible. If the relay has a malfunction, replace it with junction block assembly wire harness together.

2. INSPECT COWL SIDE J/B LH CIRCUIT

Cowl Side J/B LH:



Cowl Side J/B LH (Back Side):



(a) Remove the fuse from the junction block and inspect the connector on junction block side.

Fuse	Tester connection	Condition	Specified condition
AHC−IG	2 − Ground	Ignition switch ON	Battery positive voltage
POWER HTR	4 − Ground	Ignition switch ON	Battery positive voltage
FUEL HTR	6 − Ground	Ignition switch ON	Battery positive voltage
AHC−B	8 − Ground	Constant	Battery positive voltage
DEFOG	10 − Ground	Constant	Battery positive voltage
AM1	12 − Ground	Constant	Battery positive voltage

ACC	13 − Ground	Ignition switch ACC	Battery positive voltage
CIG	15 − Ground	Ignition switch ACC	Battery positive voltage
PWR OUTLET	17 − Ground	Ignition switch ACC	Battery positive voltage
OBD−2	20 − Ground	Constant	Battery positive voltage
STOP	22 − Ground	Constant	Battery positive voltage
A/C	24 − Ground	Ignition switch ON	Battery positive voltage
BATT CHARGE	26 − Ground	Constant	Battery positive voltage
DBL LOCK	39 − Ground	Constant	Battery positive voltage
ECU−B1	29 − Ground	Constant	Battery positive voltage
ECU−IG1	32 − Ground	Ignition switch ON	Battery positive voltage
GAUGE1	34 − Ground	Ignition switch ON	Battery positive voltage
EFI or ECD NO.2	35 − Ground	Constant	Battery positive voltage
RR WIPER	37 − Ground	Ignition switch ON	Battery positive voltage
SUN ROOF	39 − Ground	Constant	Battery positive voltage
DOOR	41 − Ground	Constant	Battery positive voltage
LH SEAT	43 − Ground	Constant	Battery positive voltage
IDLE UP	46 − Ground	Rear deffoger system ON	Battery positive voltage

If the circuit is not as specified, inspect the circuits connected to other parts.

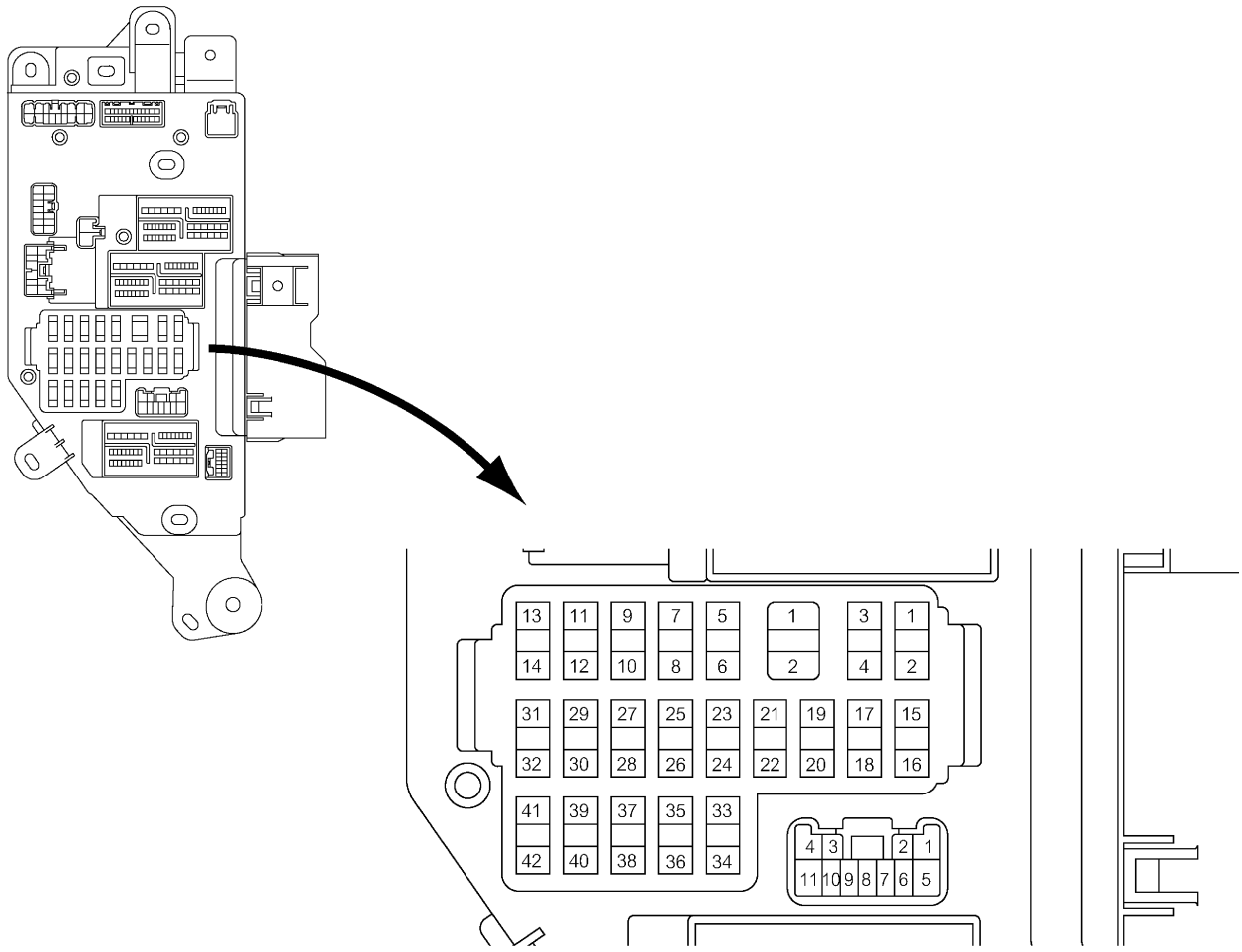
(b) Remove the relay from the junction block and inspect the connector on junction block side.

Relay	Tester connection	Condition	Specified condition
DOME	1 − Ground	Constant	Battery positive voltage
DOME	5 − Ground	Constant	Battery positive voltage
ACC	5 − Ground	Constant	Battery positive voltage
ACC	2 − Ground	Ignition switch ON	Battery positive voltage
IG1 NO.2	5 − Ground	Constant	Battery positive voltage
IG1 NO.2	2 − Ground	Ignition switch ON	Battery positive voltage
DEFOG	5 − Ground	Constant	Battery positive voltage
DEFOG	1 − Ground	Ignition switch ON	Battery positive voltage

If the circuit is not as specified, inspect the circuits connected to other parts.

3. INSPECT COWL SIDE J/B RH CIRCUIT

Cowl Side J/B RH:



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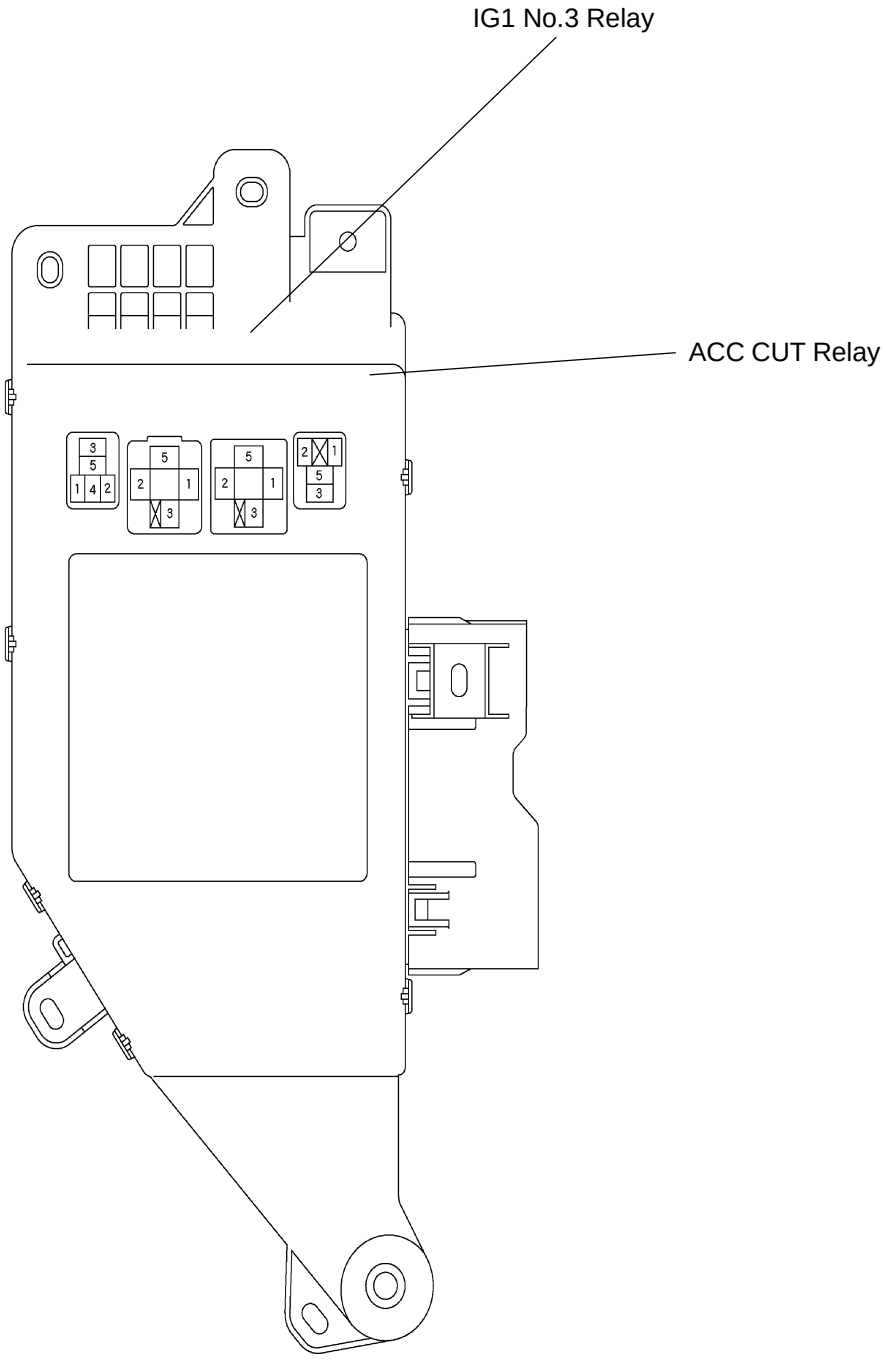
Cowl Side J/B RH (Back Side):



(a) Remove the fuse from the junction block and inspect the connector on junction block side.

Fuse	Tester connection	Condition	Specified condition
P/W (RL)	2 − Ground	Constant	Battery positive voltage
P/W (FL)	4 − Ground	Constant	Battery positive voltage
VGRS	2 − Ground	Constant	Battery positive voltage
DOME	5 − Ground	Constant	Battery positive voltage
RADIO	7 − Ground	Constant	Battery positive voltage
WASHER	10 − Ground	Ignition switch ON	Battery positive voltage

DIFF	12 − Ground	Ignition switch ON	Battery positive voltage
ECU−B2	13 − Ground	Constant	Battery positive voltage
P/W (FR)	15 − Ground	Constant	Battery positive voltage
P/W (RR)	17 − Ground	Constant	Battery positive voltage
SECURITY	20 − Ground	Constant	Battery positive voltage
IGN	21 − Ground	Ignition switch ON	Battery positive voltage
MET	23 − Ground	Ignition switch ON	Battery positive voltage
GAUGE2	25 − Ground	Ignition switch ON	Battery positive voltage
SEAT HTR	27 − Ground	Ignition switch ON	Battery positive voltage
ECU−IG2	29 − Ground	Ignition switch ON	Battery positive voltage
WIPER	31 − Ground	Ignition switch ON	Battery positive voltage
RH SEAT	33 − Ground	Constant	Battery positive voltage
RR A/C	35 − Ground	Constant	Battery positive voltage
TIL & TEL	37 − Ground	Constant	Battery positive voltage

If the circuit is not as specified, inspect the circuits connected to other parts.

Remove the relay from the junction block and inspect the connector on junction block side.

Relay	Tester connection	Condition	Specified condition
ACC CUT	2 − Ground	Constant	Battery positive voltage
ACC CUT	4 − Ground	Ignition Switch ACC	Battery positive voltage
IG1 NO.3	5 − Ground	Constant	Battery positive voltage
IG1 NO.3	2 − Ground	Ignition Switch ON	Battery positive voltage

If the circuit is not as specified, inspect the circuits connected to other parts.