DI8NV–01

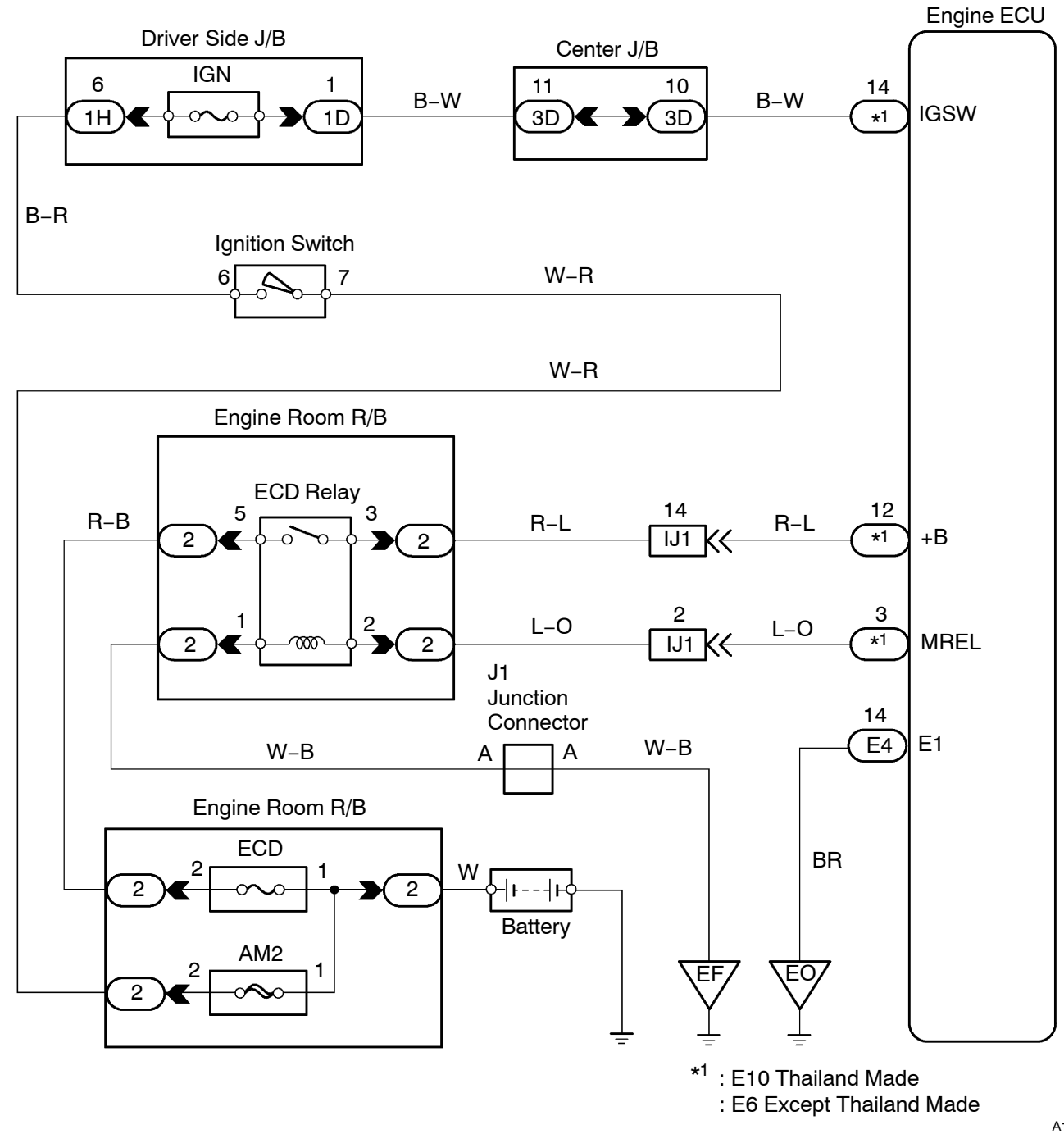
ECU Power Source Circuit

CIRCUIT DESCRIPTION

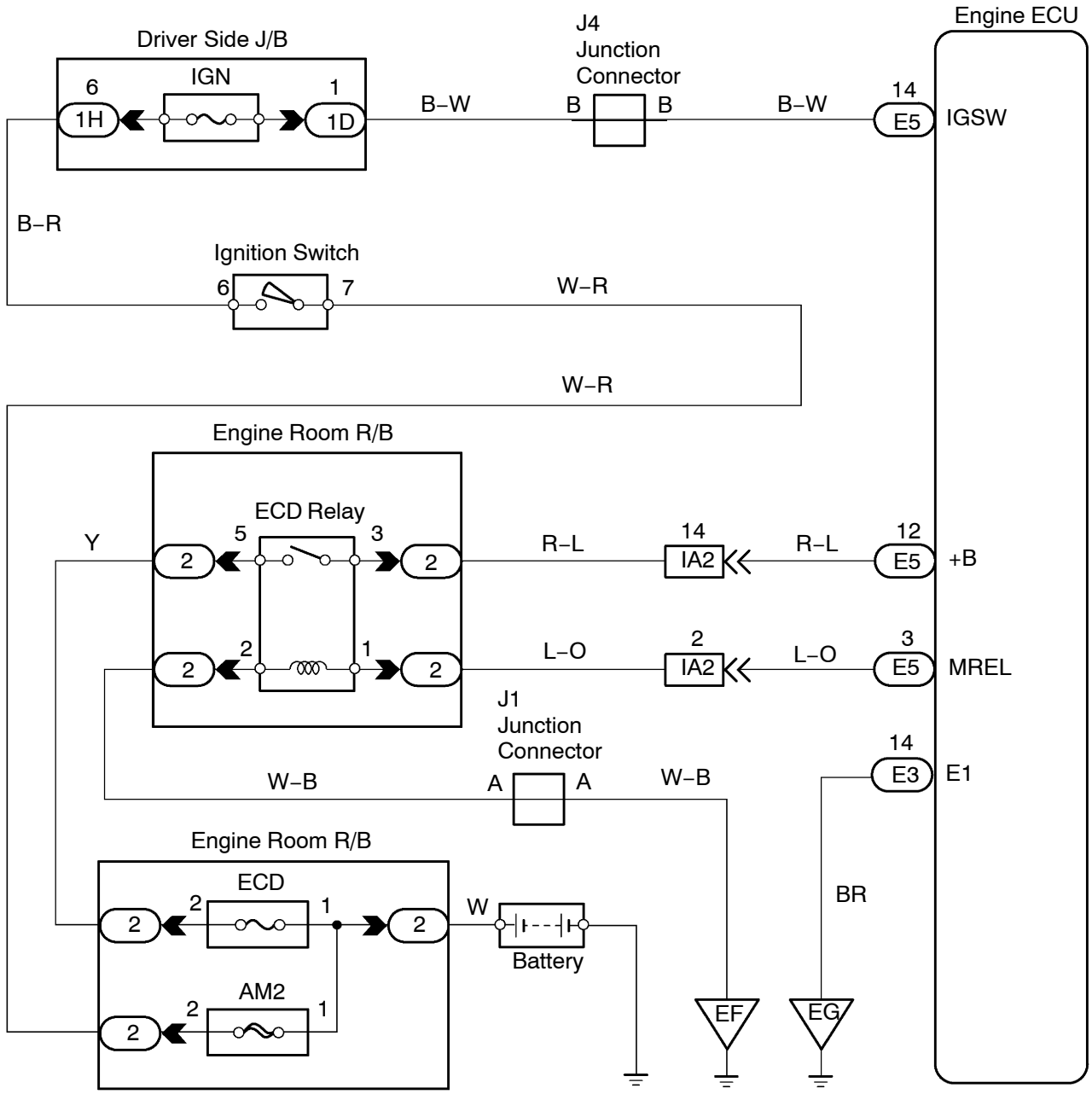
When the ignition switch is turned ON, battery positive voltage is applied to the coil, closing the contacts of the ECD main relay (Marking: ECD) and supplying power to the terminal +B of the engine ECU.

WIRING DIAGRAM

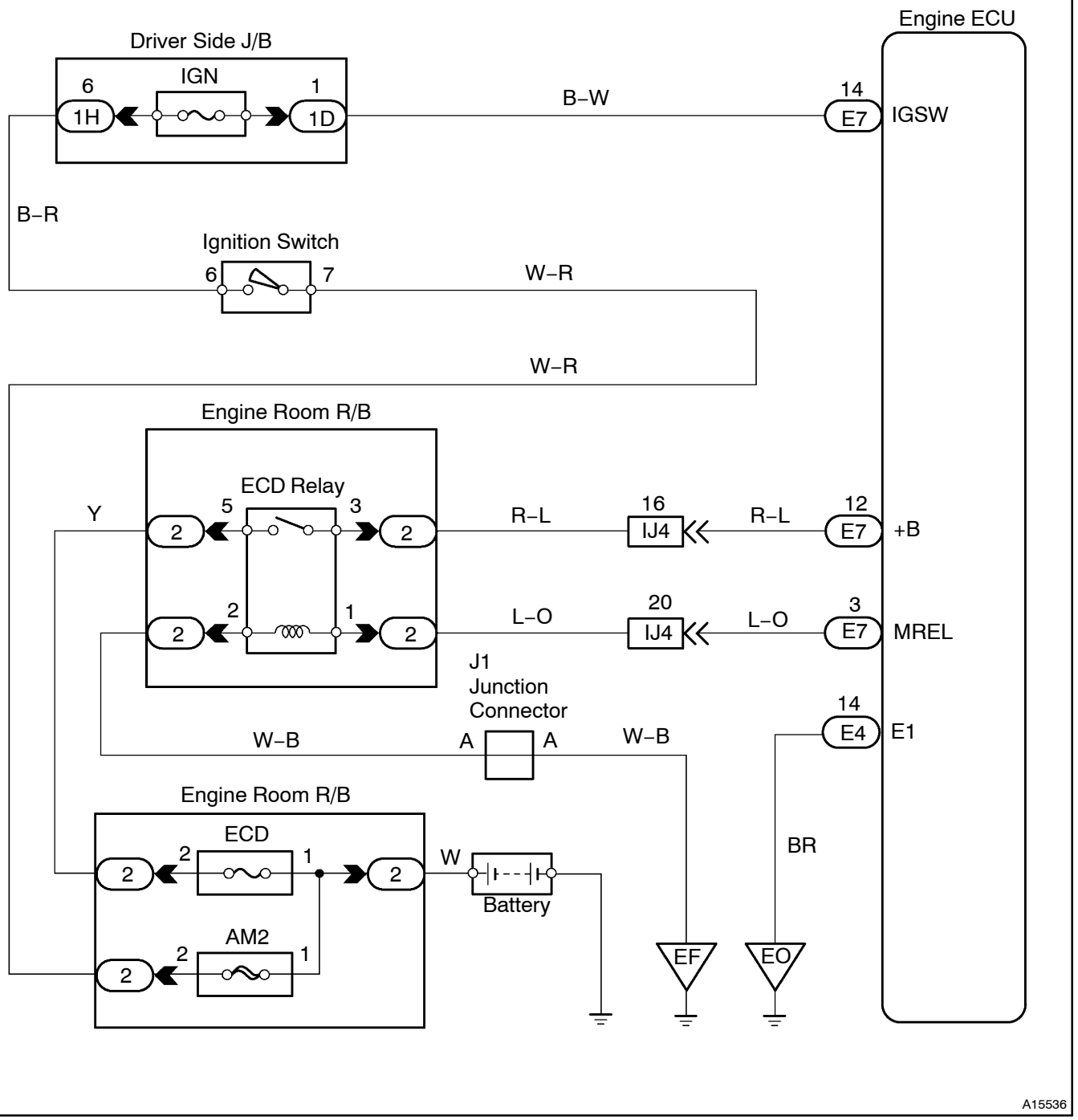
Australia:



South Africa:

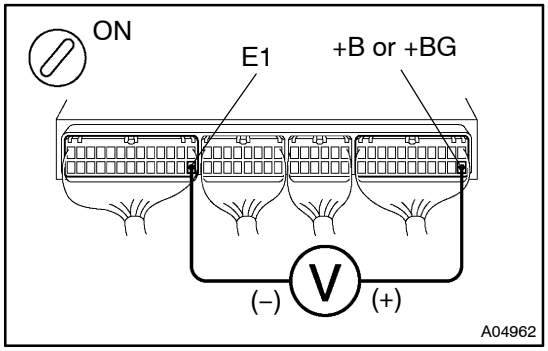


Thailand:


Engine ECU
Driver Side J/B
IGN
6
1
1H
1D
B–W
14
E7
IGSW
B–R
Ignition Switch
6
7
W–R
W–R
Engine Room R/B
ECD Relay
5
3
2
2
Y
R–L
16
IJ4
R–L
12
E7
+B
2
1
2
2
L–O
20
IJ4
L–O
3
E7
MREL
J1
Junction
Connector
14
E4
E1
W–B
A
A
W–B
Engine Room R/B
ECD
2
1
2
2
W
BR
Battery
AM2
2
1
2
EF
EO
A15536

INSPECTION PROCEDURE

1	**Check voltage between terminals +B or +BG and E1 of engine ECU.**



PREPARATION:

(a) Remove the glove compartment door.

(b) Turn the ignition switch ON.

CHECK:

Measure voltage between terminals +B or +BGand E1 of engine ECU.

OK:

Voltage: 9 – 14 V

OK	**Proceed to next circuit inspection shown on problem symptoms table (See page DI–25).**

NG

2	**Check for open in harness and connector between terminal E1 of engine ECU and body ground (See page IN–19).**

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

OK

3	**Check ECD relay (Marking: ECD) (See page ED–9).**

NG	**Replace ECD relay.**

OK

4	**Check ECD fuse.**

PREPARATION:
Remove the ECD fuse from the engine room J/B.
CHECK:
Check continuity of ECD fuse.
OK:
Continuity

NG → **Check for short in all the harness and components connected to ECD fuse.**

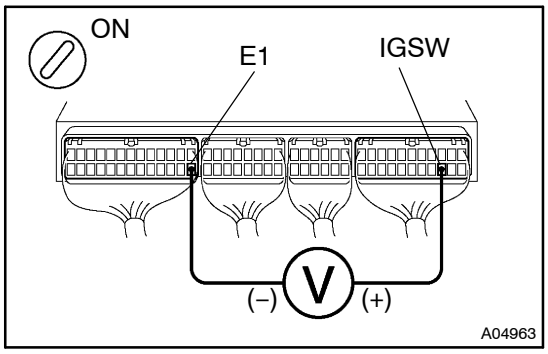
OK

5	**Check for open in harness and connector between engine ECU and ECD main relay (Marking: ECD), ECD main relay and battery (See page IN–19).**

NG → **Repair harness or connector.**

OK

6	**Check voltage between terminals IGSW and E1 of engine ECU.**



PREPARATION:
(a) Remove the glove compartment door.
(b) Turn the ignition switch ON.
CHECK:
Measure voltage between terminals IGSW and E1 of engine ECU.
OK:
Voltage : 9 – 14 V

OK → **Go to step 9.**

NG

7	**Check ignition switch (See Pub. No. RM585E BE section).**

NG → **Replace ignition switch.**

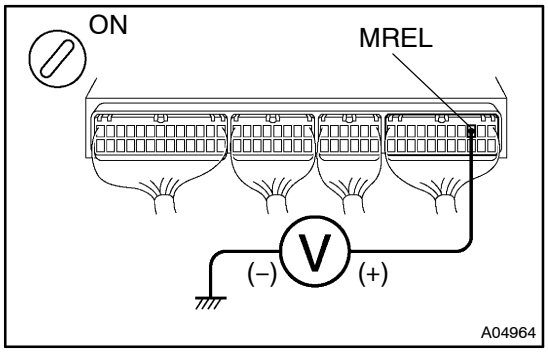
OK

8	**Check for open in harness and connector between ignition switch and engine ECU (See page IN–19).**

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

OK

9	**Check voltage between terminal MREL of engine ECU and body ground.**



PREPARATION:

(a) Remove the glove compartment door.

(b) Turn the ignition switch ON.

CHECK:

Measure voltage between terminal MREL of engine ECU and body ground.

OK:

Voltage: 9 – 14 V

OK → **Check and replace engine ECU (See page IN–19).**

NG

Check for open in harness and connector between engine ECU and ECD relay (Marking: ECD), ECD relay and body ground (See page IN–19).