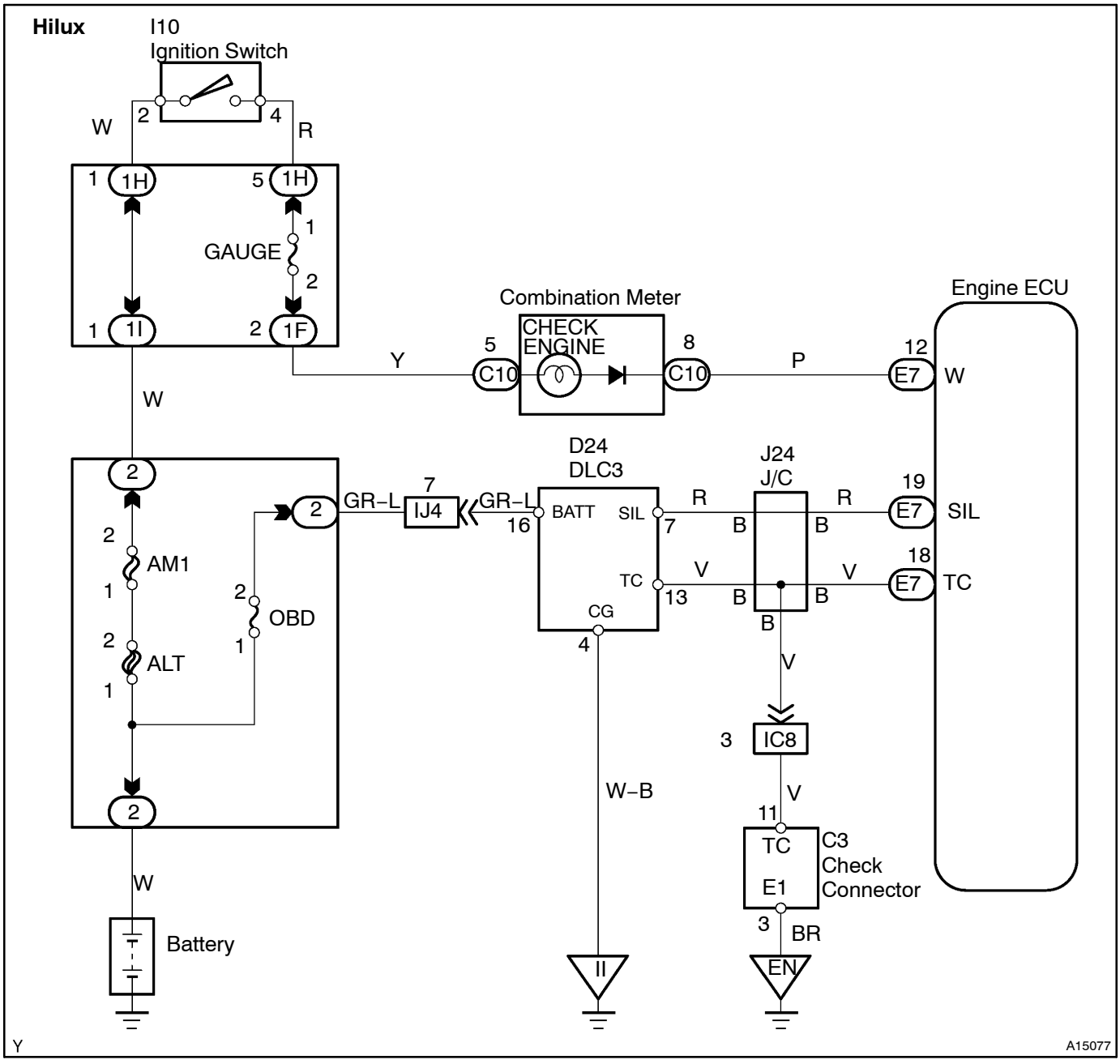
DI8FU–01

Diagnostic Connector (DLC3) Circuit

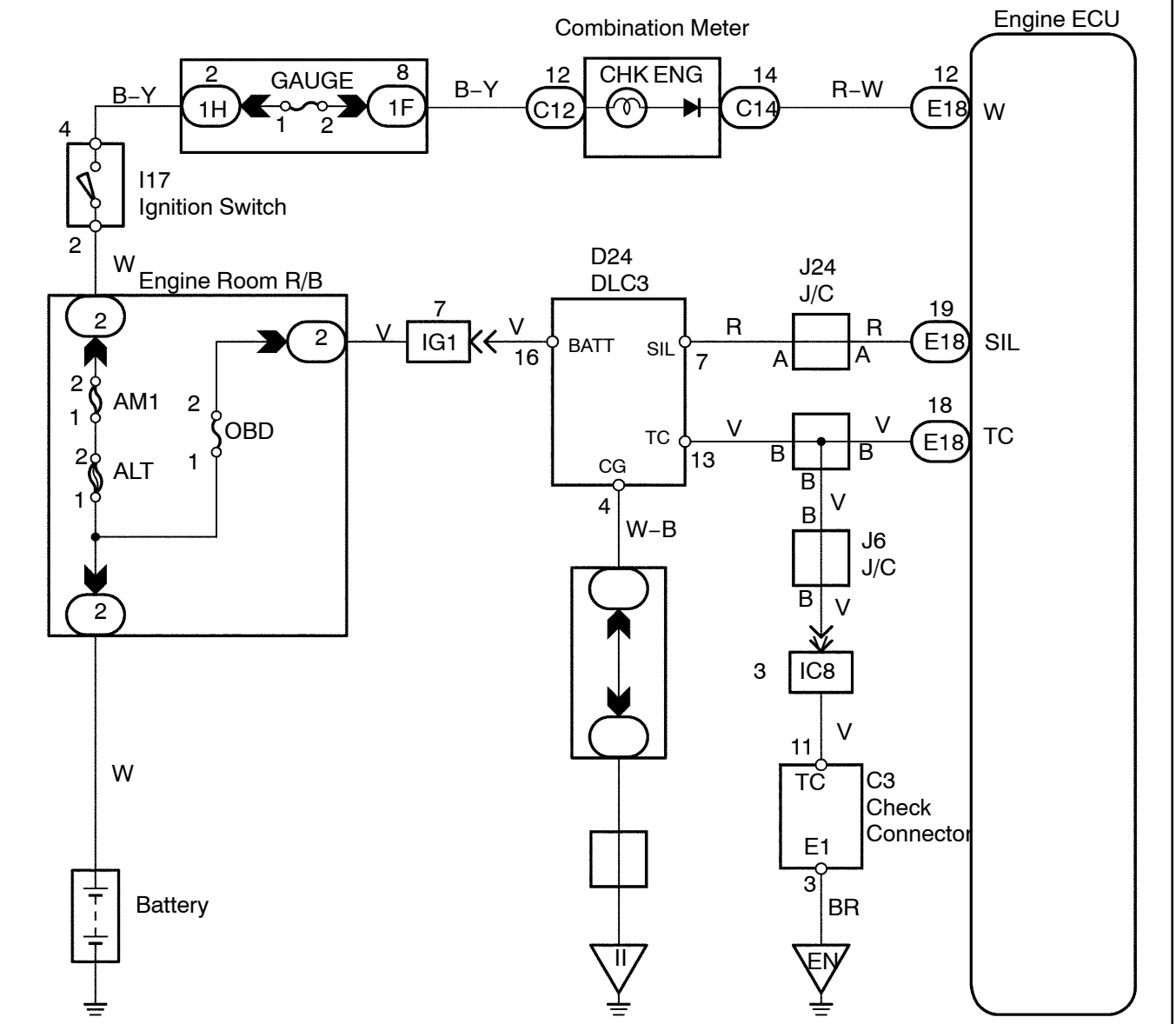
CIRCUIT DESCRIPTION

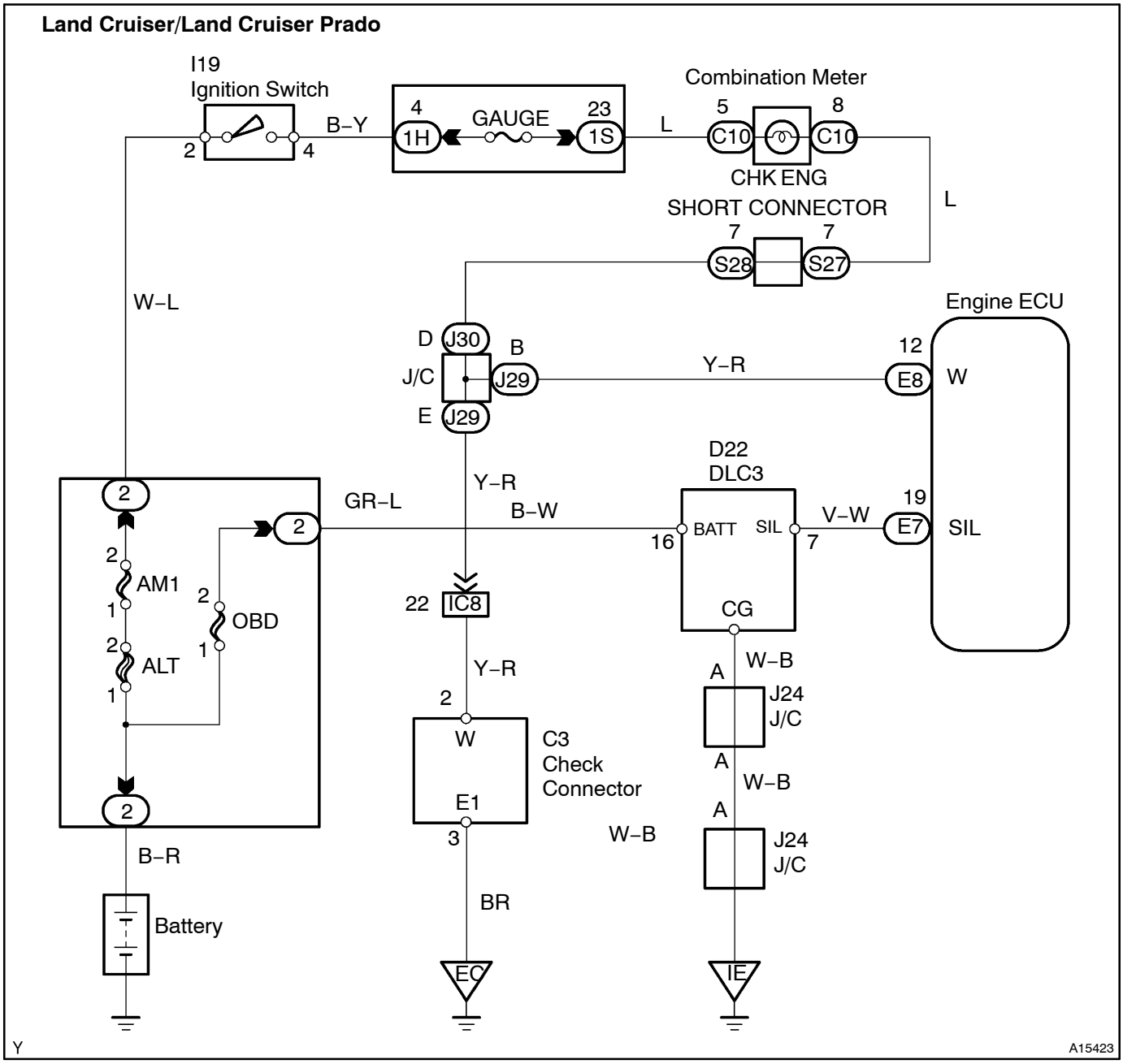
Terminals TC and CG are located in the DLC3.
The DLC3 is located under the finish lower panel. When terminals TC and CG are connected, a DTC in the normal mode or test mode can be read from the check engine warning light in the combination meter.
Also, terminal SIL is located in the DLC3. This terminal is used for the M–OBD communication with hand–held tester.

WIRING DIAGRAM



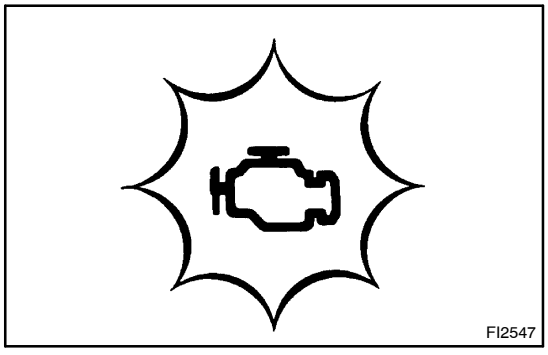
4Runner


Combination Meter
Engine ECU
GAUGE
CHK ENG
B–Y
B–Y
R–W
W
I17
Ignition Switch
W
Engine Room R/B
AM1
ALT
OBD
IG1
V
D24
DLC3
BATT
SIL
TC
CG
J24
J/C
R
R
SIL
V
V
TC
W–B
J6
J/C
IC8
V
TC
C3
Check
Connector
E1
BR
Battery
W
P
A15421



INSPECTION PROCEDURE

1	**Check check engine warning light condition.**



PREPARATION:

(a) Turn the ignition switch ON.

(b) Using SST, connect terminals TC and CG of the DLC3.
SST 09843–18040

CHECK:

Check the check engine warning light condition.

OK:

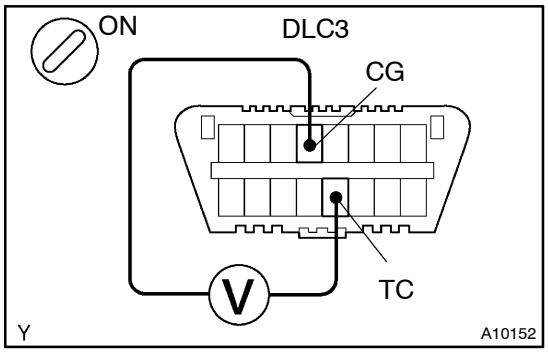
Check engine warning light: Blinking

HINT:
If this inspection is OK and there is no hand–held tester, the following steps are unnecessary because this circuit is OK. Proceed to next circuit inspection shown on problem symptoms table (See page DI–24).

OK	Go to step 7.

NG

2	**Check voltage between terminals TC and CG of DLC3.**



PREPARATION:
Turn the ignition switch ON.
CHECK:
Measure the voltage between terminals TC and CG of the DLC3.
OK:
Voltage: 9 – 14 V

OK	Go to step 5.

NG

3	**Check continuity terminal CG of DLC3 and body ground.**

NG	Repair or replace harness or connector.

OK

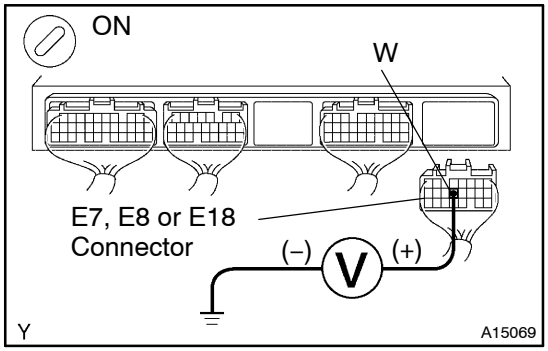
4	**Check for open and short in harness and connector between terminal TC of DLC3 and terminal TC of engine ECU (See page IN–20).**

NG	Repair or replace harness or connector.

OK

Check and replace engine ECU.

5	Check voltage between terminal W of engine ECU connector and body ground.



PREPARATION:

(a) Remove the glove compartment door.
(b) Disconnect the E7 (Hilux), E8 (Land Cruiser/Land Cruiser Prado) or E18 (4Runner) connector of the engine ECU.
(c) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminal W of the engine ECU connector and the body ground.

OK:

Voltage: 9 – 14 V

OK	Check and replace engine ECU (See page IN–20).

NG

6	Check bulb of check engine warning light.

NG	Replace bulb.

OK

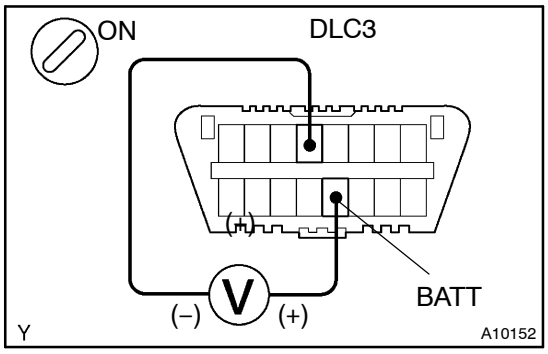
Check for open in harness and connector between terminal W of engine ECU and combination meter (See page IN–20).

7	Can you read DTC (including normal DTC) using hand–held tester?

YES	Proceed to next circuit inspection shown on problem symptoms table (See page DI–24).

NO

8	Check voltage between terminal BATT of DLC3 and body ground.



CHECK:

Measure the voltage between terminal BATT of the DLC3 and the body ground.

OK:

Voltage: 9 – 14 V

NG → **Check for open and short in harness and connector between terminal BATT of DLC3 and fusible link block (See page IN–20).**

OK

Check for open and short in harness and connector between terminal SIL of DLC3 and terminal SIL of engine ECU (See page IN–20).