DTC	AlwaysON	MALFUNCTION IN ECU(VSC WARNING LIGHT)

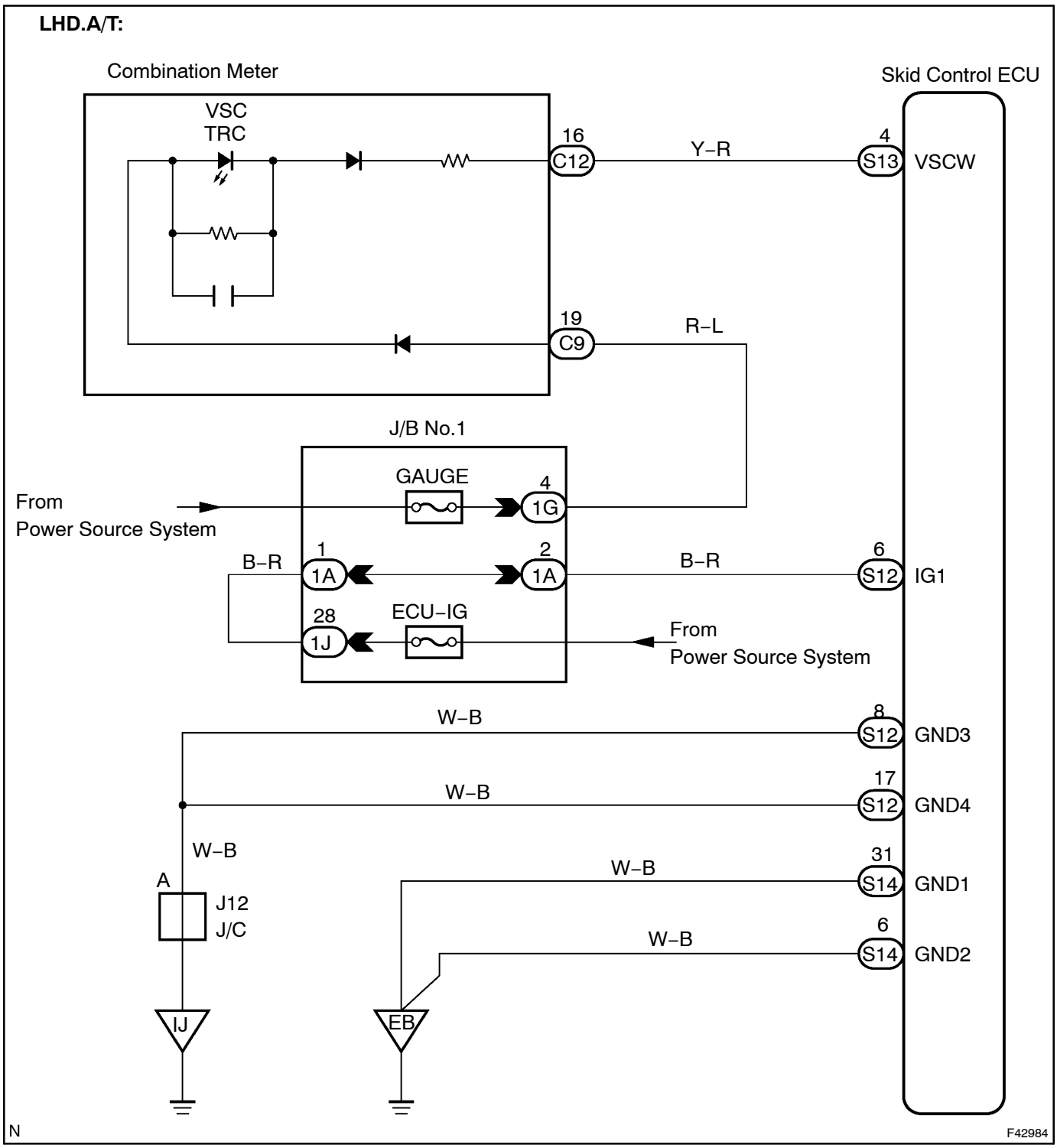
CIRCUIT DESCRIPTION

If the ECU stores DTC, the VSC warning light lights on the combination meter.

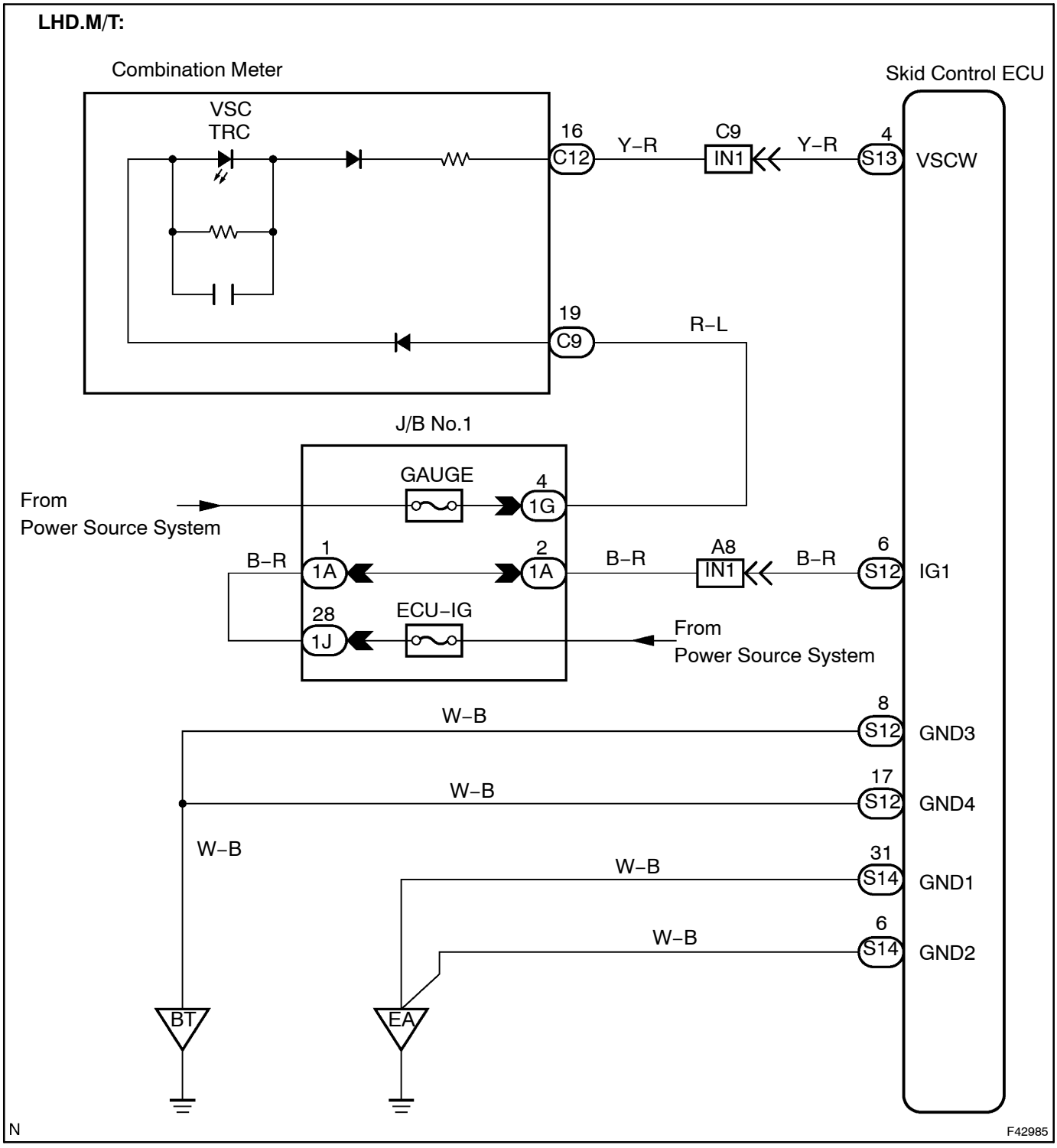
DTC No.	DTC Detecting Condition	Trouble Area
Always ON	Malfunction in skid control EU	• Battery • IC regulator • Power source circuit • Skid control ECU

WIRING DIAGRAM

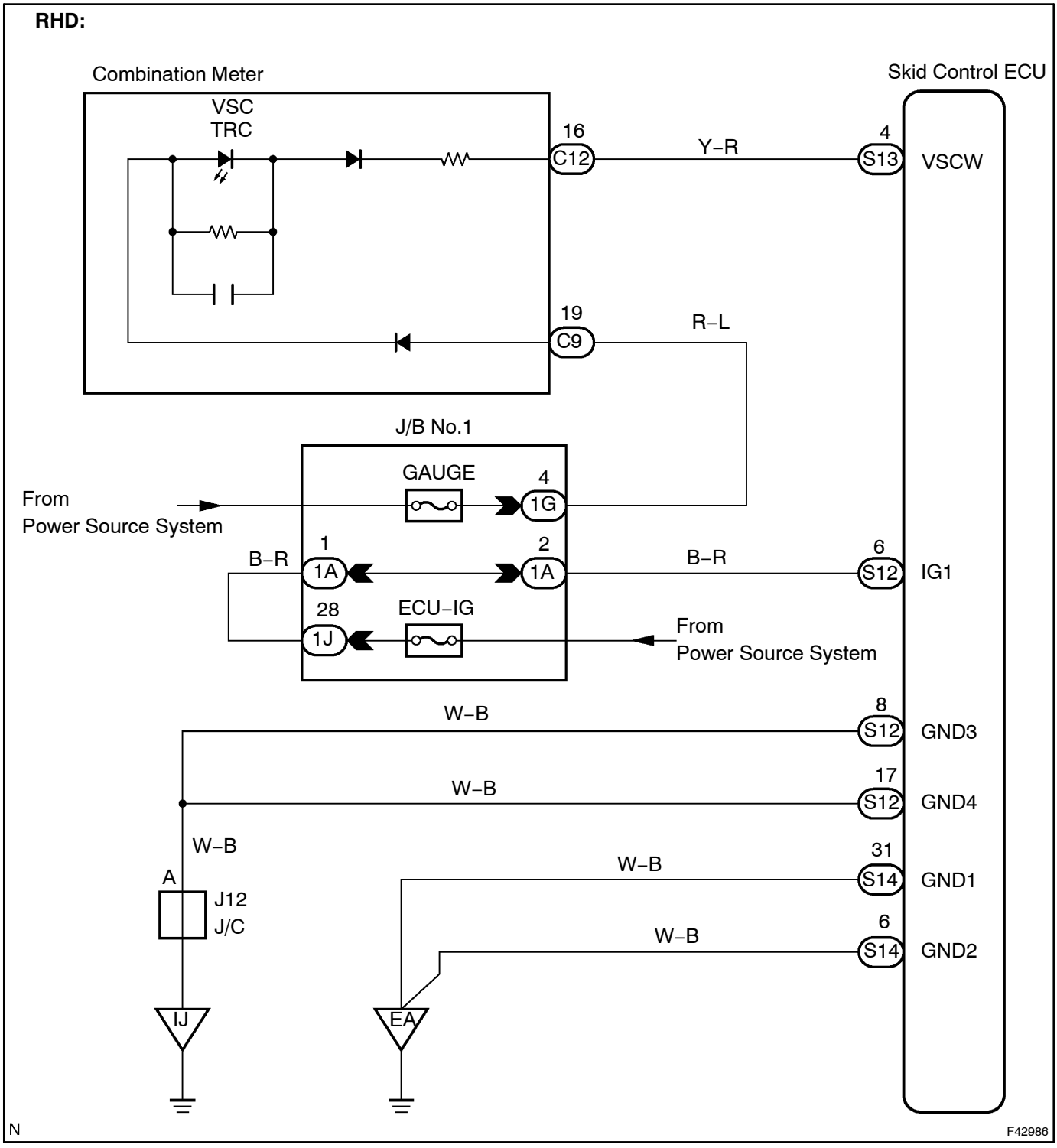
LHD.A/T:



LHD.M/T:


Combination Meter
Skid Control ECU
VSC
TRC
16
C12
Y–R
C9
IN1
Y–R
4
S13
VSCW
19
C9
R–L
J/B No.1
GAUGE
4
1G
From
Power Source System
B–R
1
1A
2
1A
B–R
A8
IN1
B–R
6
S12
IG1
28
1J
ECU–IG
From
Power Source System
W–B
8
S12
GND3
W–B
17
S12
GND4
W–B
31
S14
GND1
W–B
6
S14
GND2
BT
EA
N
F42985

RHD:


Combination Meter
Skid Control ECU
VSC
TRC
16
C12
Y–R
4
S13
VSCW
19
C9
R–L
J/B No.1
GAUGE
4
1G
From
Power Source System
1
1A
B–R
2
1A
B–R
6
S12
IG1
28
1J
ECU–IG
From
Power Source System
W–B
8
S12
GND3
W–B
17
S12
GND4
W–B
A
J12
J/C
W–B
31
S14
GND1
W–B
6
S14
GND2
IJ
EA
N
F42986

INSPECTION PROCEDURE

1	CHECK DTC FOR VSC

(a) Check DTC on page 05–730.

YES → REPAIR CIRCUIT INDICATED BY OUTPUT CODE

NO

2	INSPECT SKID CONTROL ECU CONNECTOR SECURELY CONNECTED

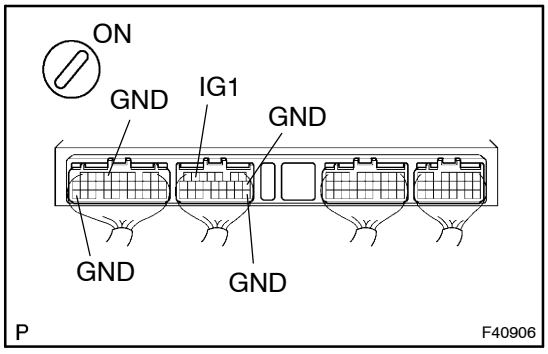
NO → CONNECT CONNECTOR TO ECU

YES

3	INSPECT SKID CONTROL ECU TERMINAL VOLTAGE(IG1 TERMINAL)

IN CASE OF USING HAND–HELD TESTER:

(a) Check the voltage condition output from the ECU displayed on the hand–held tester.
OK:
"Normal" is displayed.



IN CASE OF NOT USING HAND–HELD TESTER:

(a) Remove the skid control ECU with connectors still connected.
(b) Turn the ignition switch ON.
(c) Measure voltage between terminals IG1 and GND of skid control ECU.
OK:
Voltage: 10 – 14 V

OK → Go to step 5

NG

4	INSPECT BATTERY

OK:
Voltage: 10 – 14 V

NG → CHECK AND REPLACE CHARGING SYSTEM

OK

5	CHECK HARNESS AND CONNECTOR (DLC3 – SKID CONTROL ECU)

(a) Check for short circuit in harness and connector between terminal TC of DLC3 and skid control ECU (See page 01–36).

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

6	CHECK VSC WARNING LIGHT

(a) See combination meter troubleshooting on page 05–1546.

NG → REPAIR OR REPLACE COMBINATION METER ASSEMBLY

OK

7	CHECK HARNESS AND CONNECTOR (SKID CONTROL ECU – COMBINATION METER)

(a) Check for open and short circuit in harness and connector between skid control ECU and combination meter (See page 01–36).

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE SKID CONTROL ECU ASSY