DTC C1774 POWER SOURCE CIRCUIT

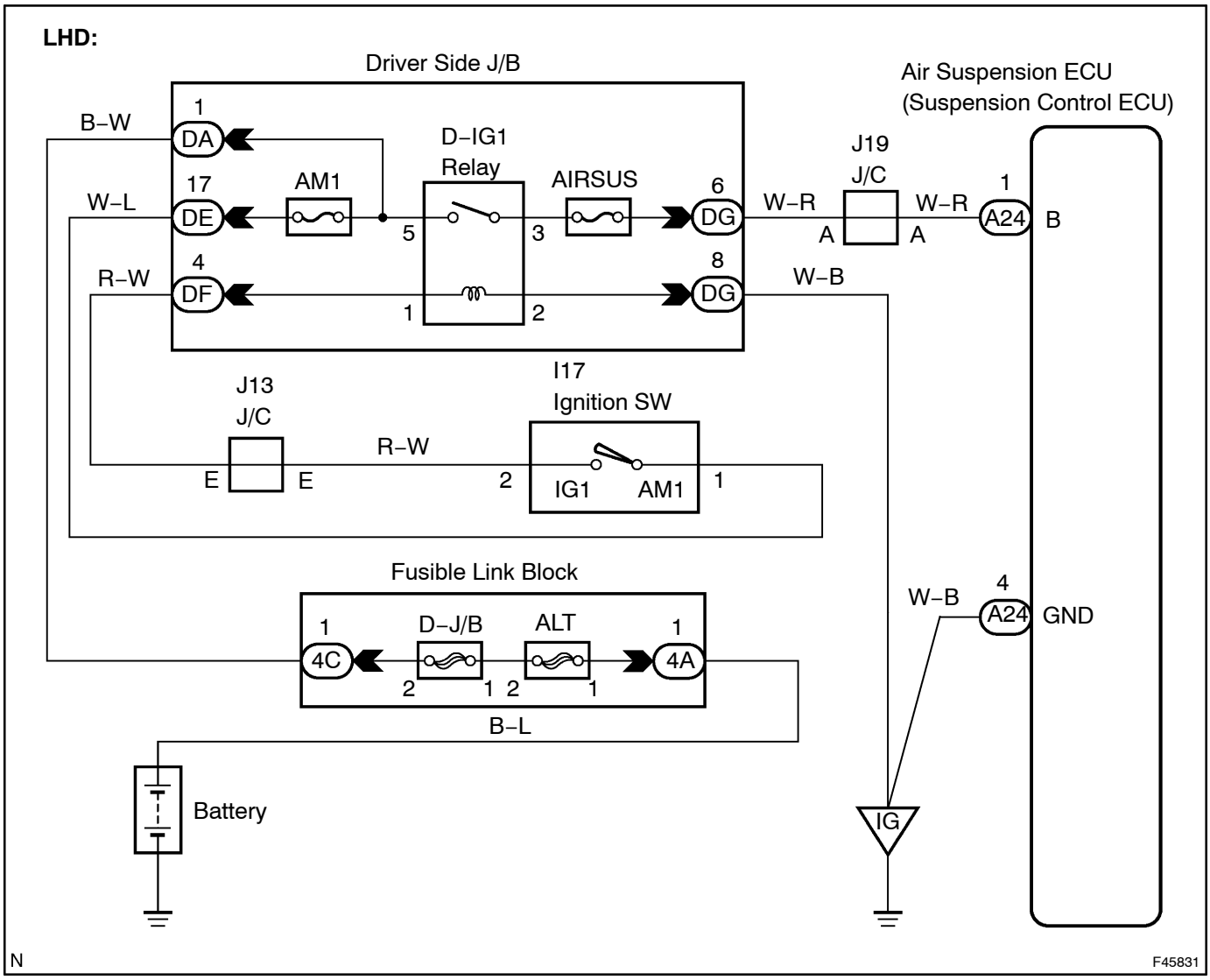
CIRCUIT DESCRIPTION

When the ignition switch is turned to the ON position, the D–IG1 relay is activated and battery voltage is applied to terminal B of the suspension control ECU. When the ignition switch is turned off, the D–IG1 relay is de–energized and the power source is cut off.

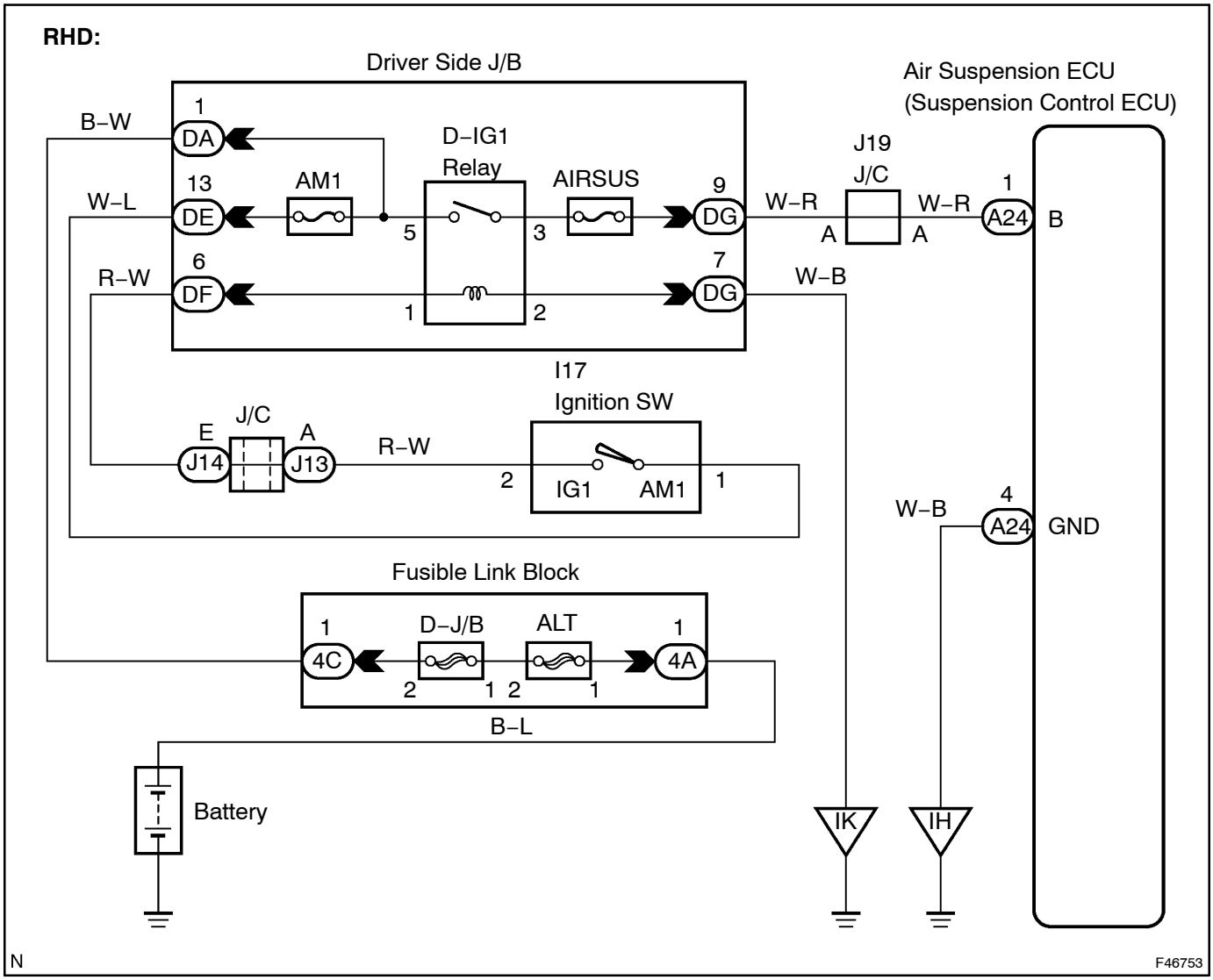
This power source energizes the suspension control actuator, height control solenoid valve, D–IG1 relay, each IC and sensor.

DTC No.	DTC Detecting Condition	Trouble Area
C1774	IG voltage is detected as being below or above a constant voltage for 0.5 seconds.	• Battery • Power source circuit • Suspension control ECU

WIRING DIAGRAM



RHD:


Driver Side J/B
Air Suspension ECU
(Suspension Control ECU)
B–W
W–L
R–W
W–B
W–R
W–R
D–IG1
Relay
AM1
AIRSUS
J19
J/C
I17
Ignition SW
J/C
R–W
IG1
AM1
W–B
GND
Fusible Link Block
D–J/B
ALT
B–L
Battery
IK
IH
DA
DE
DF
DG
DG
4C
4A
J14
J13
A24
A24
A
A
E
A
2
1
F46753
N

INSPECTION PROCEDURE

1 INSPECT SUSPENSION CONTROL ECU

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the ignition switch to the ON position and turn the intelligent tester II main switch on.
(c) Select the item below in the DATA LIST and read its value displayed on the intelligent tester II.

AIRSUS:

Item	Normal Condition
IG VOLTAGE	Actual ECU power supply voltage: 10 to 14 V

(d) Check the voltage.
Standard:
10 to 14 V

NG → **Go to step 5**

OK

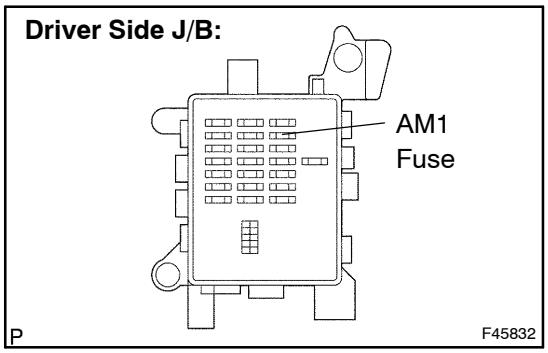
2 CHECK SOURCE VOLTAGE

(a) Check the battery voltage.
Standard:
11 to 14 V

NG → **REPLACE BATTERY**

OK

3 INSPECT FUSE(AM1)

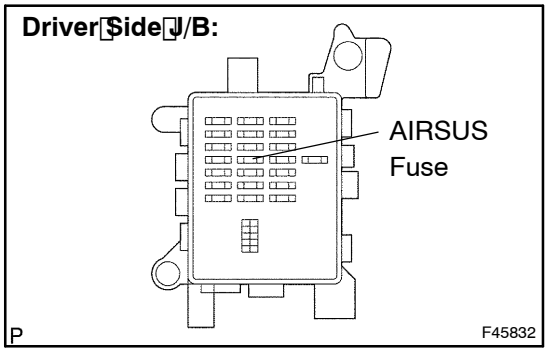


(a) Remove the AM1 fuse from the driver side J/B.
(b) Check fuse.
(1) Check continuity of the AM1 fuse.
Standard:
Continuity

NG → **CHECK FOR SHORT IN ALL HARNESS AND CONNECTOR CONNECTED TO FUSE AND REPLACE FUSE**

OK

4	INSPECT FUSE(AIR SUS)



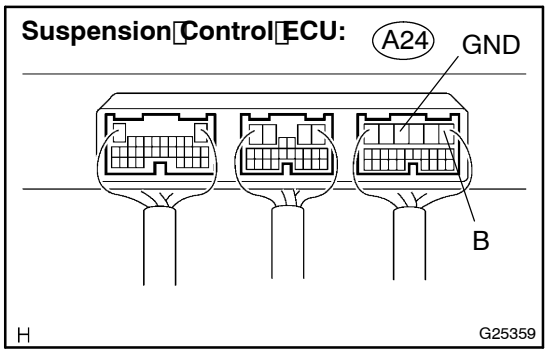
(a) Remove the AIRSUS fuse from the driver side J/B.
(b) Check fuse.
(1) Check continuity of the AIRSUS fuse.
Standard:
Continuity

NG → **CHECK FOR SHORT IN ALL HARNESS AND CONNECTOR CONNECTED TO FUSE AND REPLACE FUSE**

OK

REPLACE SUSPENSION CONTROL ECU (SEE PAGE 25–20)

5	INSPECT SUSPENSION CONTROL ECU



(a) Remove the suspension control ECU with connectors connected.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage according to the value(s) in the table below.
Standard:

Tester Connection	Specified Condition
A24–1 (B) – A24–4 (GND)	10 to 14 V

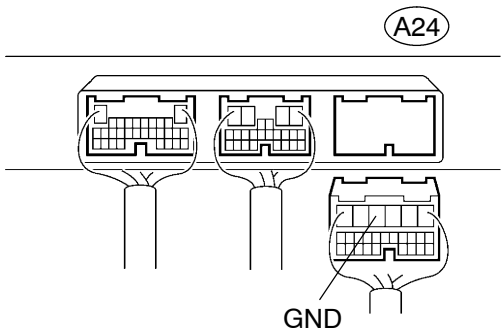
NG → **Go to step 6**

OK

REPLACE SUSPENSION CONTROL ECU (SEE PAGE 25–20)

6	CHECK HARNESS AND CONNECTOR(SUSPENSION CONTROL ECU – BODY GROUND) (SEE PAGE 01–44)

Suspension Control ECU:



(a) Disconnect the suspension control ECU A24 connector.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
A24–4 (GND) – Body ground	Below 1 Ω

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

OK

REPLACE SUSPENSION CONTROL ECU (SEE PAGE 25–20)