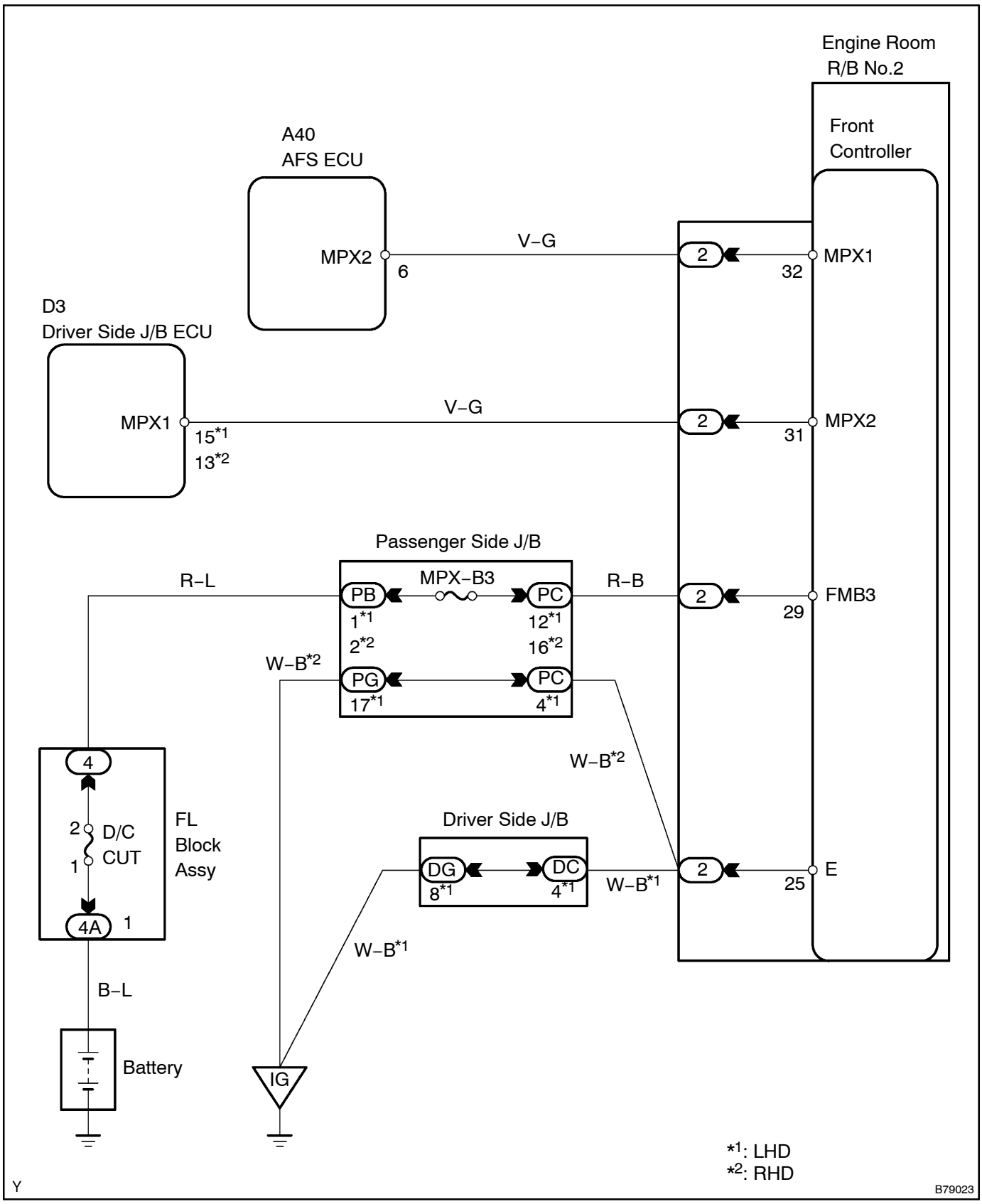
DTC	B1296	FRONT CONTROLLER ECU COMMUNICATION STOP

CIRCUIT DESCRIPTION

This DTC is detected when communication between the front controller (ECU) and gateway ECU stops more than 10 seconds.

DTC No.	DTC Detection Condition	Trouble Area
B1296	Front controller communication stops	• Front controller • Wire harness

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK OPERATION

(a) Turn the dimmer switch ON and check that the headlamps illuminate.
OK: Headlamps illuminate.

NG → **Go to step 2**

OK

REPLACE FRONT CONTROLLER

2	INSPECT FUSE (MPX B3 D/C CUT)

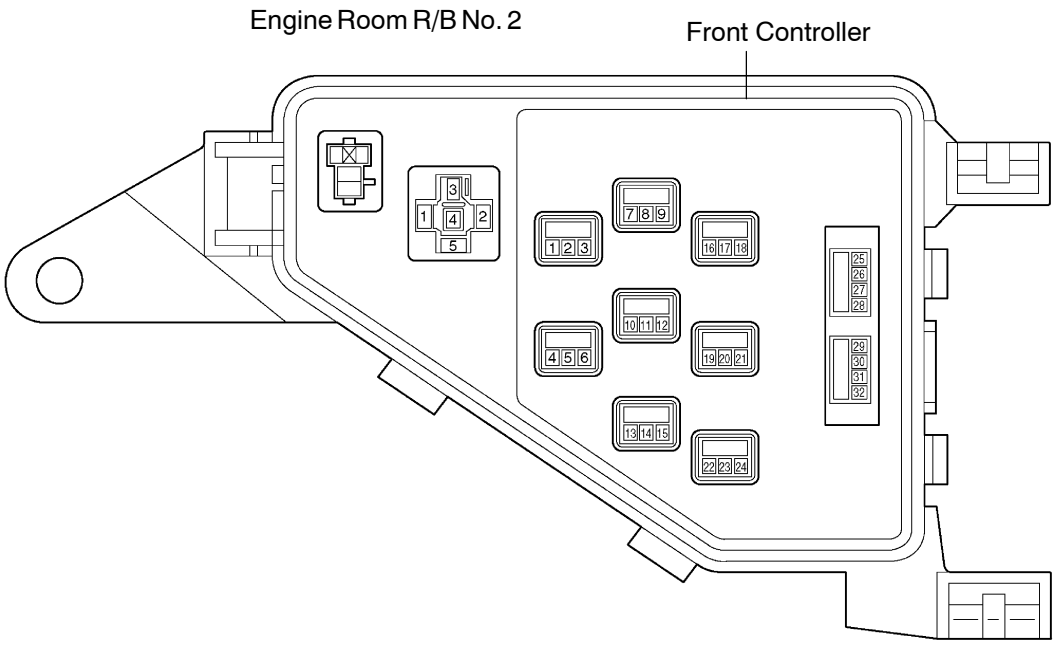
(a) Remove the MPX B3 fuse from the passenger side J/B.
(b) Remove the D/C CUT fuse from the FL block assy.
(c) Measure the resistance.
Standard: Below 1 Ω

NG → **REPLACE FUSE**

OK

3	CHECK WIRE HARNESS (ENGINE ROOM R/B NO. 2 – BODY GROUND)

Wire Harness Side



(a) Disconnect the controller from the engine room R/B No. 2.
(b) Measure the resistance of the wire harness side connector.
Standard:

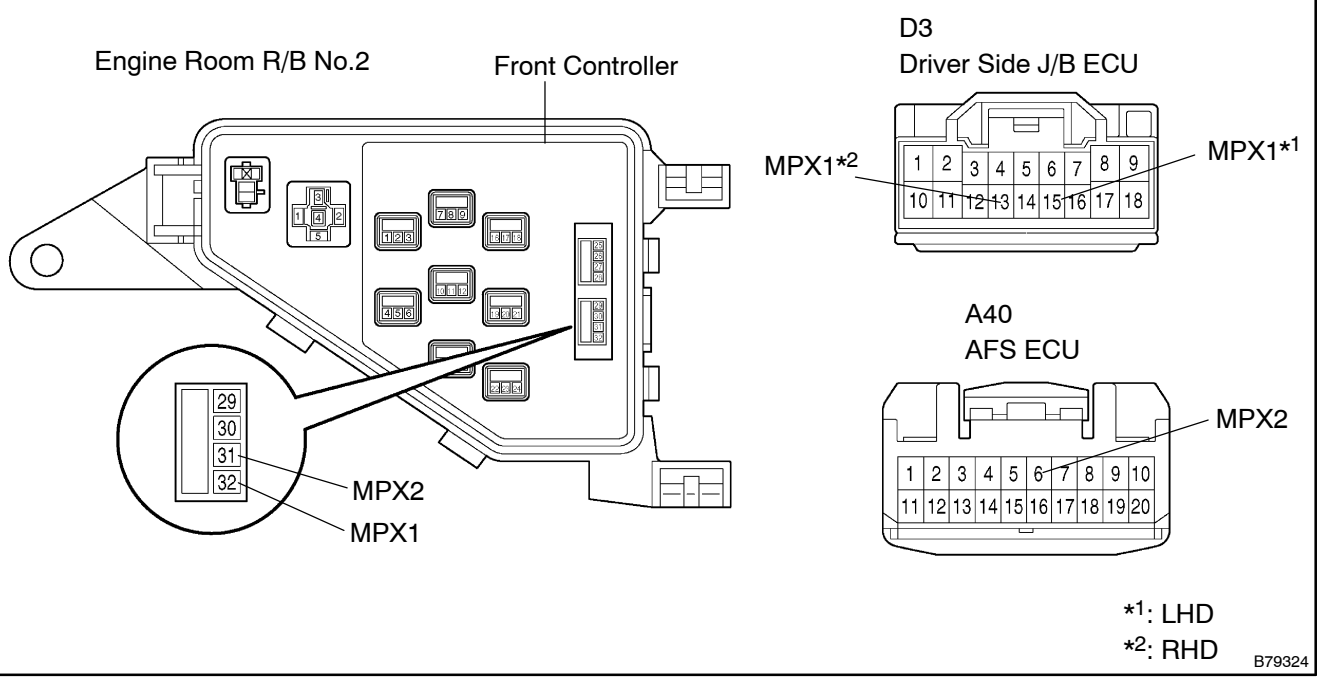
Tester Connection	Specified Condition
2–29 (FMB3) – Body ground	10 to 14 V
2–25 (E) – Body ground	Below 1 Ω

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

OK

4 CHECK RESISTANCE OF COMMUNICATION LINE

Wire Harness Side



(a) Disconnect the D3 and A40 ECU connectors.
(b) Disconnect the front controller from the engine room R/B No.2.
(c) Measure the resistance between the wire harness side connectors.

Standard:

LHD models

Tester Connection	Specified Condition
2–31 (MPX2) – D3–15 (MPX1)	Below 1 Ω
2–32 (MPX1) – A40–6 (MPX2)	Below 1 Ω

RHD models

Tester Connection	Specified Condition
2–31 (MPX2) – D3–13 (MPX1)	Below 1 Ω
2–32 (MPX1) – A40–6 (MPX2)	Below 1 Ω

Result:

Result	Proceed to
Both are OK	A
One is OK	B
Both are NG	C

B → **REPLACE FRONT CONTROLLER AND REPAIR OR REPLACE HARNESS AND CONNECTOR**

C → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

A

REPLACE FRONT CONTROLLER