DTC	B1278	COMBINATION SWITCH ECU COMMUNICATION STOP

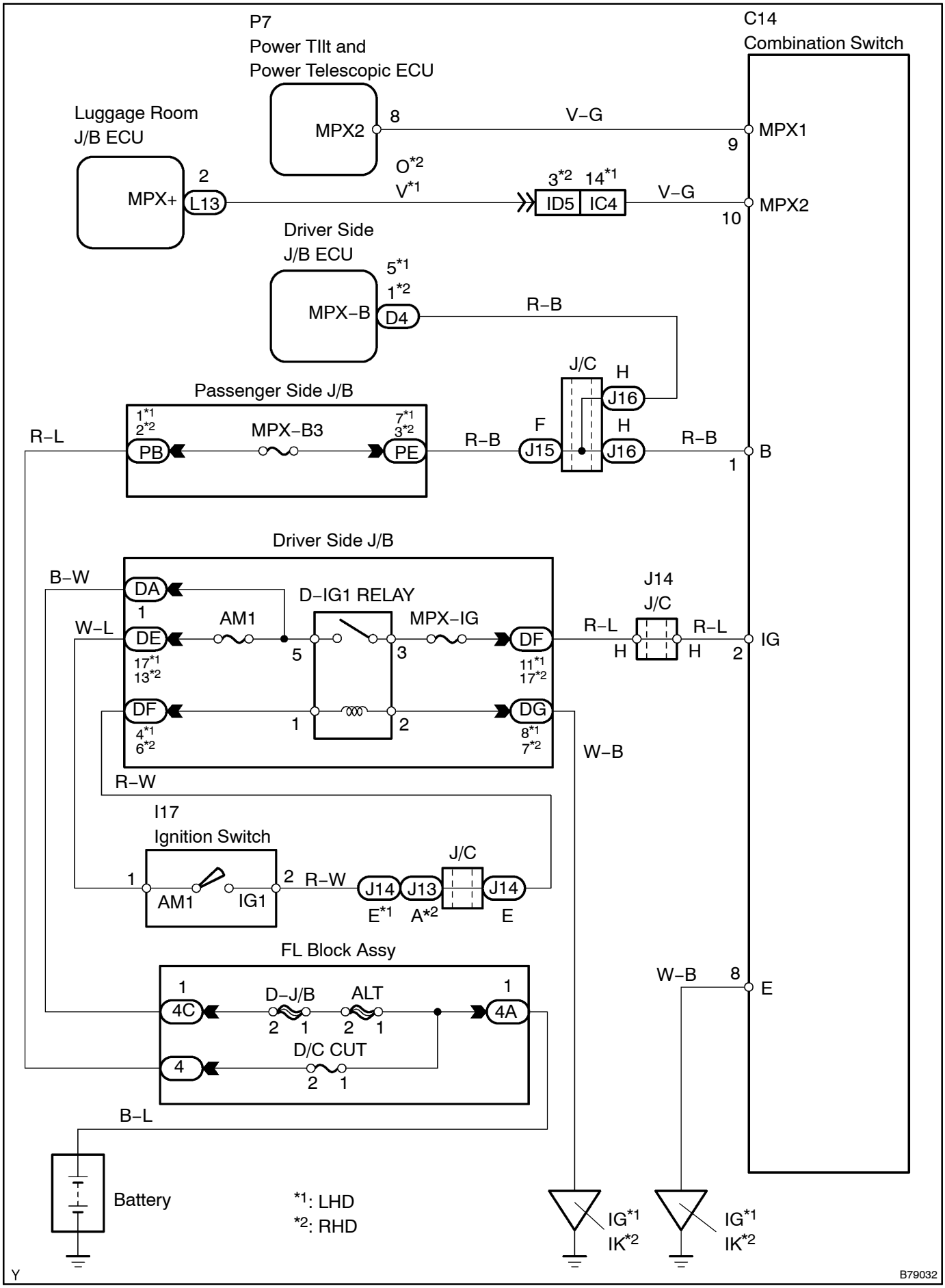
CIRCUIT DESCRIPTION

This DTC is detected when communication between the combination switch assy (combination switch ECU) and gateway ECU stops for more than 10 seconds.

DTC No.	DTC Detecting Condition	Trouble Area
B1278	Combination switch ECU communication stops	• Combination switch • Wire harness

WIRING DIAGRAM

The wiring diagram is shown on the next page.


P7
Power TIlt and
Power Telescopic ECU
MPX2
8
V–G
C14
Combination Switch
MPX1
9
Luggage Room
J/B ECU
MPX+
2
L13
O*2
V*1
3*2
14*1
ID5
IC4
V–G
MPX2
10
Driver Side
J/B ECU
MPX–B
5*1
1*2
D4
R–B
J/C
H
J16
Passenger Side J/B
1*1
2*2
MPX–B3
7*1
3*2
R–L
PB
PE
R–B
F
J15
H
J16
R–B
B
1
Driver Side J/B
B–W
DA
1
D–IG1 RELAY
J14
J/C
W–L
DE
17*1
13*2
AM1
5
3
MPX–IG
DF
11*1
17*2
R–L
H
R–L
H
IG
2
DF
4*1
6*2
1
2
DG
8*1
7*2
W–B
R–W
I17
Ignition Switch
1
AM1
IG1
2
R–W
J/C
J14
J13
J14
E*1
A*2
E
FL Block Assy
1
4C
D–J/B
ALT
1
4A
2
1
2
1
D/C CUT
4
2
1
W–B
8
E
B–L
Battery
*1: LHD
*2: RHD
IG*1
IK*2
IG*1
IK*2
Y
B79032

INSPECTION PROCEDURE

1	CHECK OPERATION

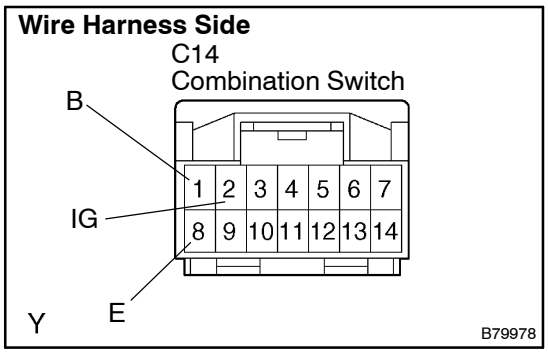
(a) Check that the turn signal switch can operate the turn signal normally.
OK: Turn signal switch can operate the turn signal normally.

NG → **Go to step 2**

OK

REPLACE COMBINATION SWITCH ASSY

2	CHECK WIRE HARNESS (COMBINATION SWITCH ASSY – BODY GROUND)



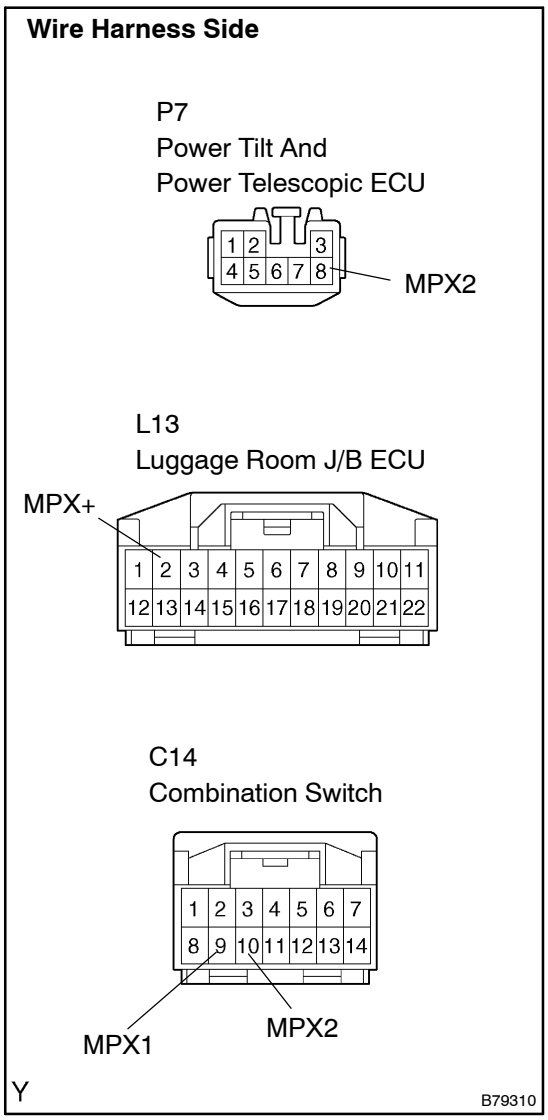
(a) Disconnect the C14 combination switch connector.
(b) Measure the resistance and voltage of the wire harness side connector.
Standard:

Tester Connection	Condition	Specified Condition
C14–1 (B) – Body ground	Constant	10 to 14 V
C14–8 (E) – Body ground	Constant	Below 1 Ω
C14–2 (IG) – Bodyground	Ignition switch from OFF to ON	0V → 10 to 14 V

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

OK

3 CHECK RESISTANCE OF COMMUNICATION LINE



(a) Disconnect the P7 and L13 ECU connectors.
(b) Disconnect the C14 combination switch connector.
(c) Measure the resistance between the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
C14–9 (MPX1) – P7–8 (MPX2)	Below 1 Ω
C14–10 (MPX2) – L13–2 (MPX+)	Below 1 Ω

Result:

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

B → **REPLACE COMBINATION SWITCH ASSY AND WIRE HARNESS CONNECTOR**

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

A

REPLACE COMBINATION SWITCH ASSY