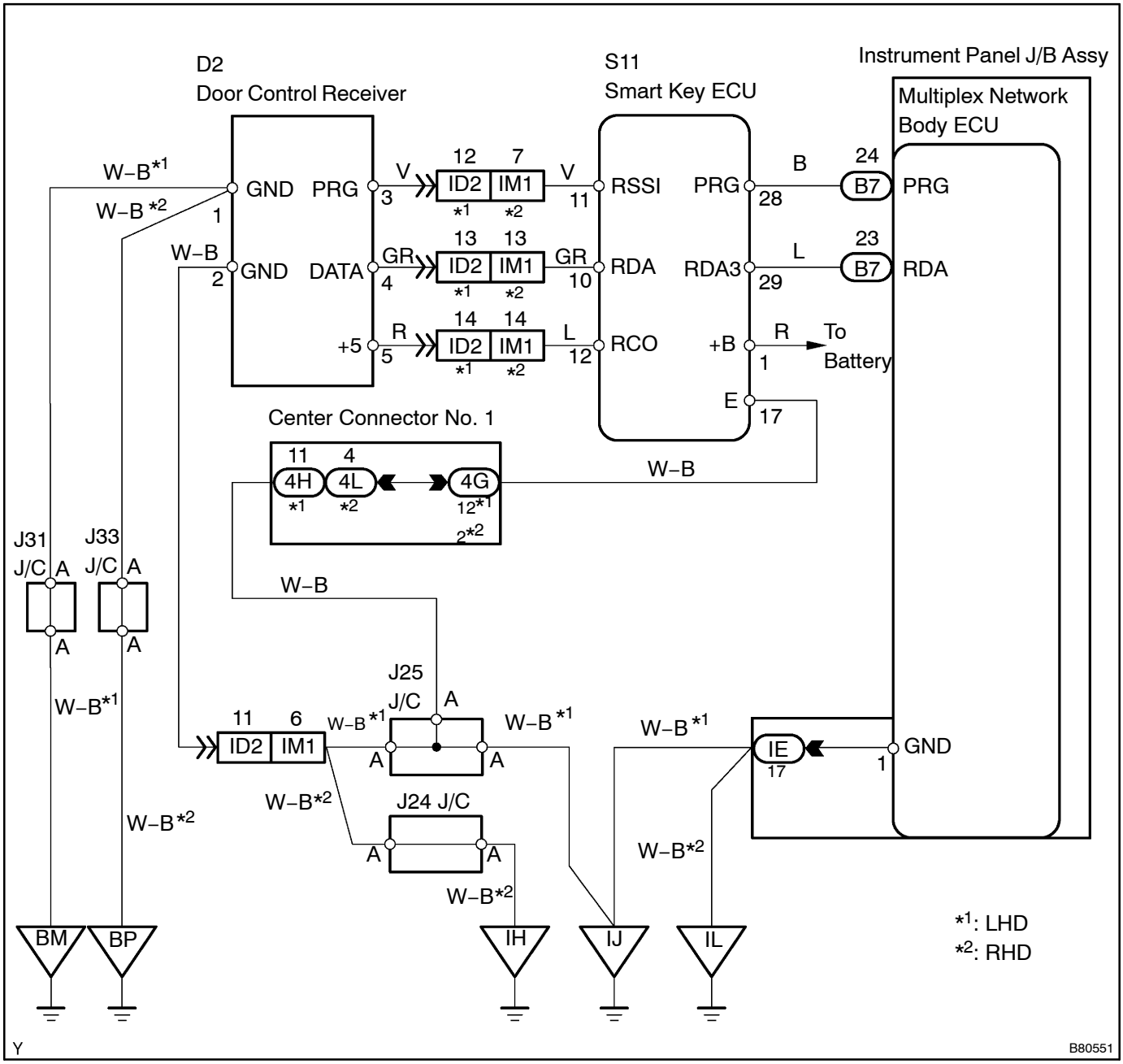
DTC	B1242	WIRELESS DOOR LOCK TUNER CIRCUIT MALFUNCTION

CIRCUIT DESCRIPTION

This DTC is detected when a RDA signal is not input to the door control receiver through the smart key ECU within 1 second after the multiplex network body ECU outputs a PRG signal.

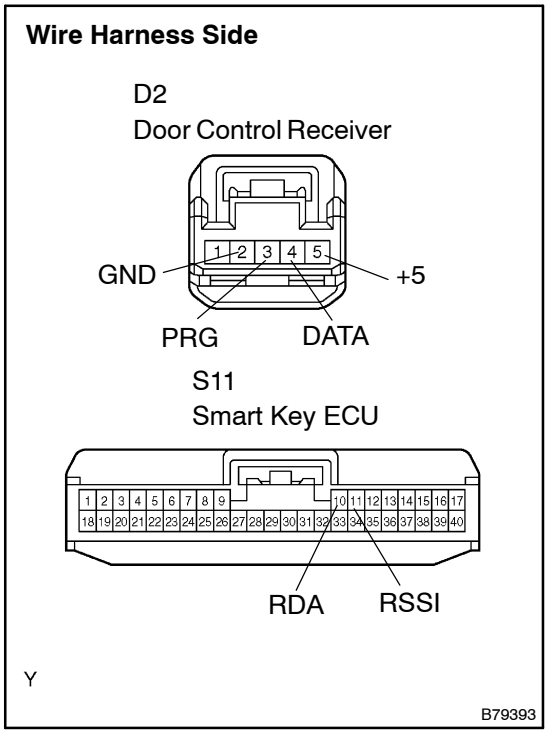
DTC No.	DTC Detection Condition	Trouble Area
B1242	Within 1 second after PRG signal is output from multiplex network body ECU during self–diagnostic mode, corresponding RDA signal is not input.	• Door control receiver • Wire harness • Smart key ECU • Multiplex network body ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK WIRE HARNESS (DOOR CONTROL RECEIVER – SMART KEY ECU) (DOOR CONTROL RECEIVER OR SMART KEY ECU – BODY GROUND)



(a) Disconnect the S11 ECU connector.
(b) Disconnect the D2 receiver connector.
(c) Measure the voltage and resistance of the wire harness side connectors.

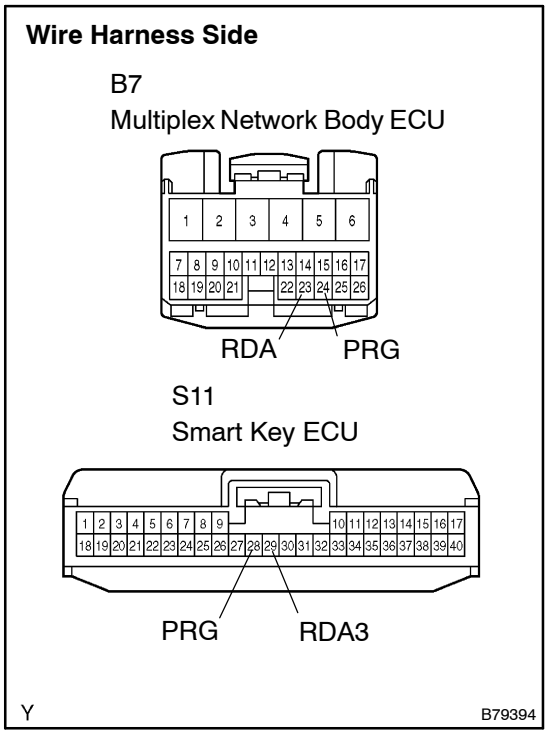
Standard:

Tester Connection	Specified Condition
D2–4 (DATA) – S11–10 (RDA)	Below 1 Ω
D2–3 (PRG) – S11–11 (RSSI)	Below 1 Ω
D2–5 (+5) – S11–12 (RCO)	Below 1 Ω
D2–5 (+5) – Body ground	4.6 to 5.4 V
D2–2 (GND) – Body ground	Below 1 Ω
D2–4 (DATA) or S11–10 (RDA) – Body ground	10 kΩ or higher
D2–3 (PRG) or S11–11 (RSSI) – Body ground	10 kΩ or higher

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

OK

2 CHECK WIRE HARNESS (SMART KEY ECU – MULTIPLEX NETWORK BODY ECU) (SMART KEY ECU OR MULTIPLEX NETWORK BODY ECU – BODY GROUND)



(a) Disconnect the S11 ECU connector.
(b) Disconnect the B7 ECU connector.
(c) Measure the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
S11–29 (RDA3) – B7–23 (RDA)	Below 1 Ω
S11–28 (PRG) – B7–24 (PRG)	Below 1 Ω
S11–29 (RDA3) or B7–23 (RDA) – Body ground	10 kΩ or higher
S11–28 (PRG) or B7–24 (PRG) – Body ground	10 kΩ or higher

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

OK

3	REPLACE DOOR CONTROL RECEIVER

(a) Check that no DTC is DTC is output.
OK: DTC is not output.

NG → **REPLACE MULTIPLEX NETWORK BODY ECU**

OK

REPLACE SMART KEY ECU