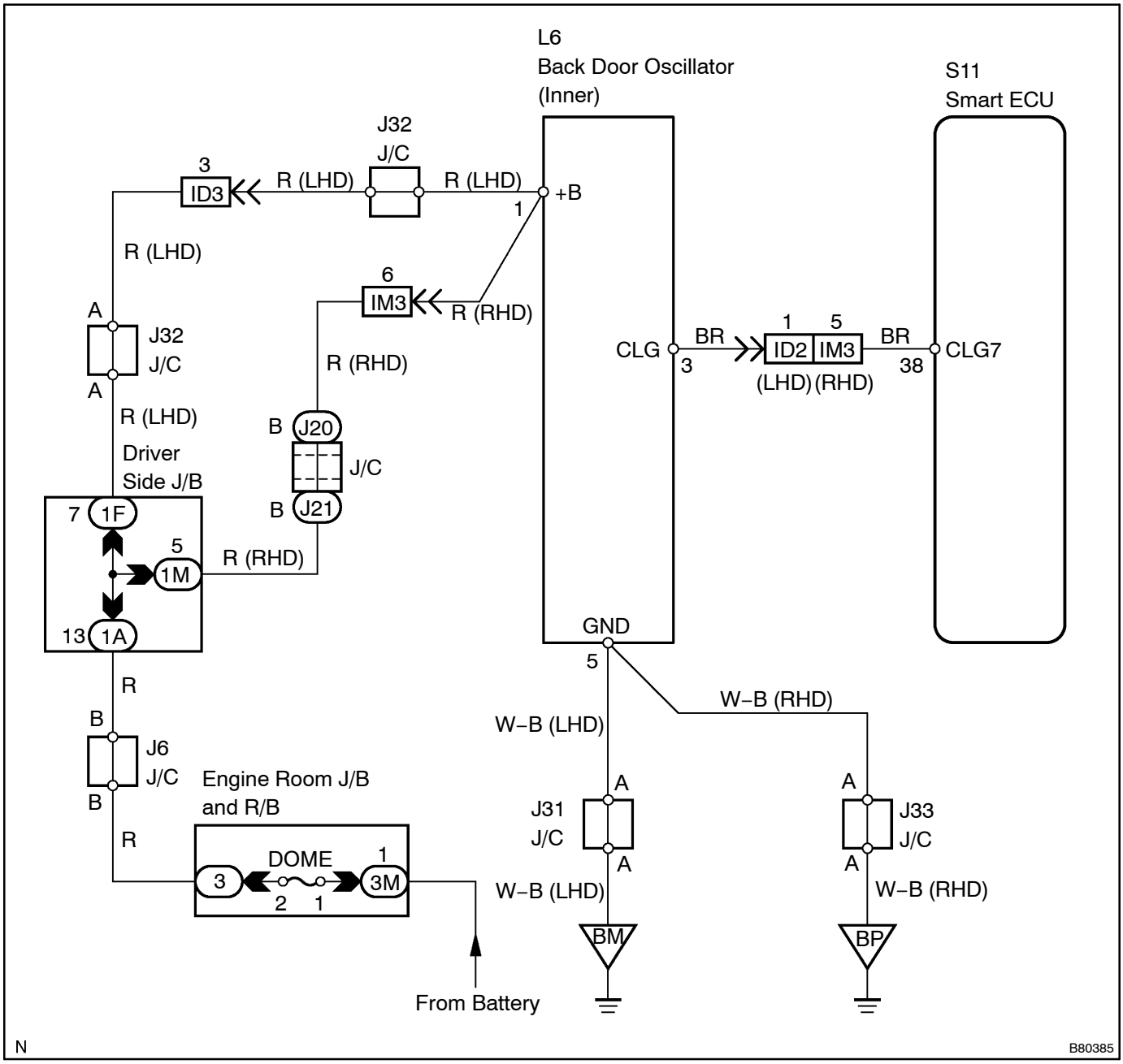
SMART KEY LUGGAGE COMPARTMENT LOCK–IN PREVENTION FUNCTION DOES NOT OPERATE

CIRCUIT DESCRIPTION

With the smart key inside the luggage compartment, press the back door opener switch. The smart ECU uses the back door oscillators (outer and inner) to output a request signal. The back door outer oscillator cannot verify an ID code in this situation. The smart key receives the request and transmits its ID code to the antenna. The ID code is then sent to the smart ECU through the back door inner oscillator in order to be confirmed by the smart ECU. If the ID code is verified, the smart ECU sends a back door open signal to the driver side junction block assy (body ECU) using the multiplex communication line and stops outputting request signals. The back door then can be opened.

WIRING DIAGRAM



INSPECTION PROCEDURE

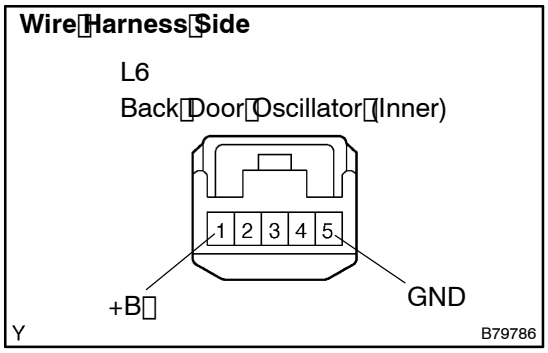
1	CHECK SMART BACK DOOR UNLOCK FUNCTION OPERATES

(a) Check that the smart back door unlock function operates normally.
OK: Smart back door unlock function operates normally.

NG → OTHER PROBLEM (See page 05–1882)

NG

2	CHECK WIRE HARNESS (BACK DOOR OSCILLATOR (INNER) – BODY GROUND)



(a) Disconnect the L6 connector.
(b) Measure the resistance and voltage between the wire harness side connector and body ground.
Standard:

Tester Connection	Specified Condition
L6–1 (+B) – Body ground	10 to 14 V
L6–5 (GND) – Body ground	Below 1 Ω

NG → REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

3	PERFORM ACTIVE TEST USING INTELLIGENT TESTER II

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the power switch from OFF to ON (IG) and press the intelligent tester II main switch ON.
(c) Select the items below in the ACTIVE TEST, and then check that the oscillator (inner) operates.
SMART KEY ECU:

Item	Test Details	Diagnostic Note
In Bdr Trnsmttr	Back Door Inner Transmitter ON/OFF	–

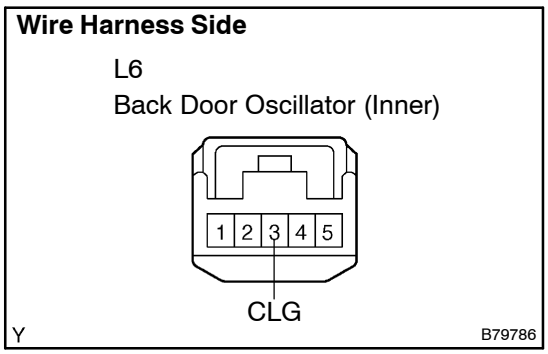
OK: ”OFF” (Back Door Inner Transmitter) appears on the screen.
When the smart key is not in the luggage room, the oscillator (inner) is turned OFF.

NG → Go to step 4

OK

REPLACE SMART ECU

4 INSPECT BACK DOOR OSCILLATOR (INNER)



(a) Disconnect the L6 oscillator connector.
(b) Measure the frequency between the terminals of the connector and body ground.

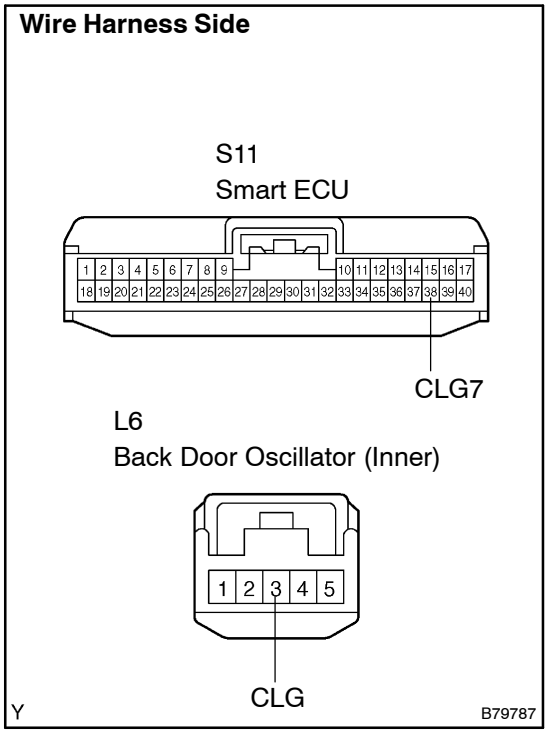
Standard:

Tester Connection	Condition	Specified Condition
L6–3 (CLG) – Body ground	Back door lock switch OFF → ON	0 Hz → Some Hz

NG → **REPLACE BACK DOOR OSCILLATOR (INNER)**

OK

5 CHECK WIRE HARNESS (SMART ECU – BACK DOOR OSCILLATOR (INNER))



(a) Disconnect the S11 ECU connector.
(b) Disconnect the L6 connector.
(c) Measure the resistance between the wire harness side connectors and body ground.

Standard:

Tester Connection	Specified Condition
S11–38 (CLG7) – L6–3 (CLG)	Below 1 Ω
S11–38 (CLG7) – L6–3 (CLG) – Body ground	10 kΩ or higher

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

OK

REPLACE SMART ECU