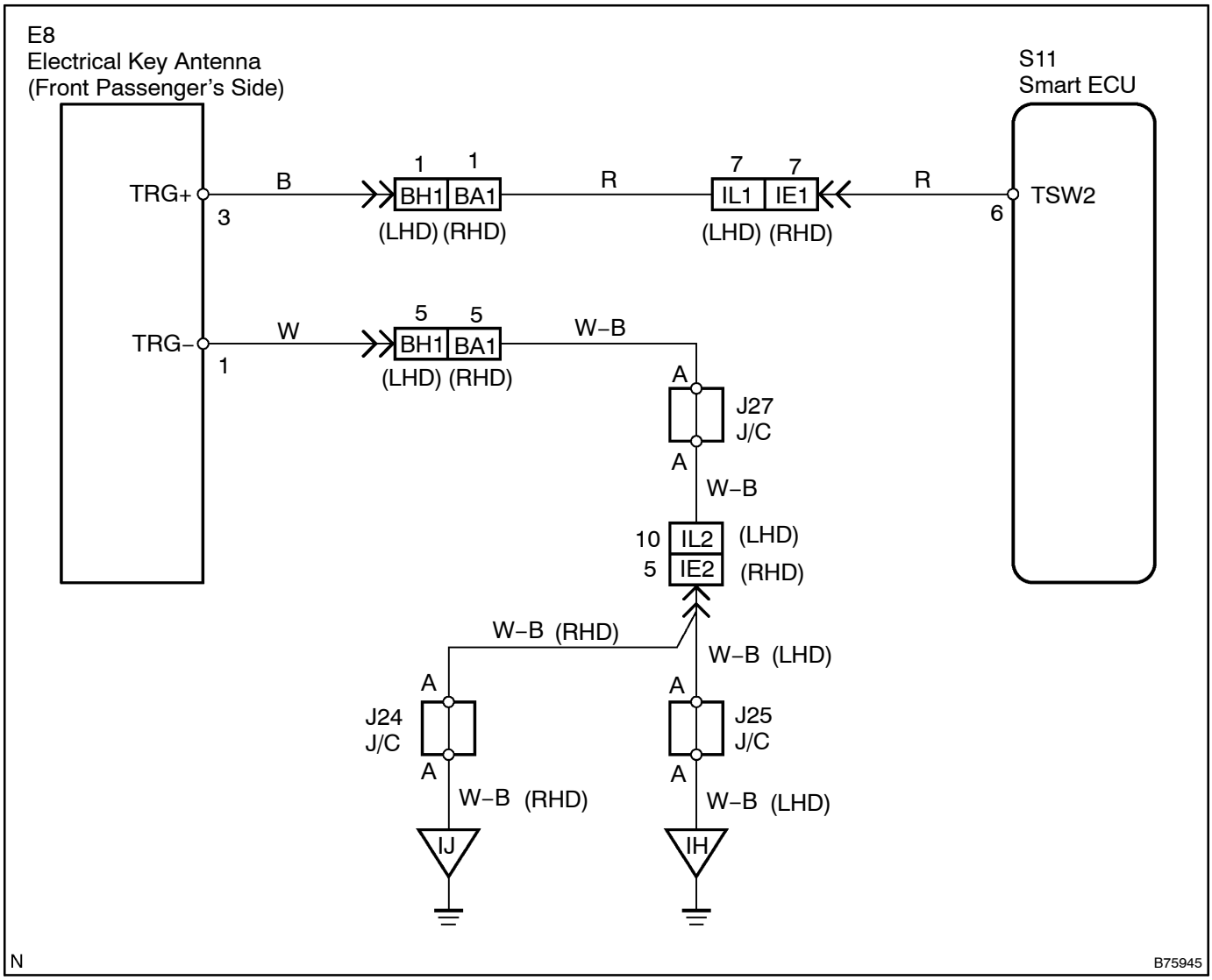
SMART LOCK FUNCTION DOES NOT OPERATE ON PASSENGER DOOR

CIRCUIT DESCRIPTION

When the touch sensor inside the front passenger door outside handle is touched, the smart ECU sends a request signal to the passenger door outside oscillator. The smart key receives this request and transmits its ID code. Upon receiving the feedback, the smart ECU determines that the smart key is outside the vehicle and sends lock signals to the door lock assemblies on all doors through the instrument panel J/B (multiplex network body ECU).

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK MANUAL DOOR LOCK OPERATION

(a) Check that the manual door lock function operates normally.
OK: Manual door lock function operates normally.

NG → **Go to POWER DOOR LOCK CONTROL SYSTEM (See page 05–1776)**

OK

2	READ VALUE OF INTELLIGENT TESTER II

(a) Connect the intelligent II to the DLC3.
(b) Turn the power switch ON (IG) and press the intelligent tester II main switch ON.
(c) Select the items below in the DATA LIST and read the displays on the intelligent tester II.
SMART ECU:

Item		Normal Condition	Diagnostic Note
P Trigger SW	P–door trigger switch/ ON or OFF	ON: Trigger switch is pushed OFF: Trigger switch is not pushed	–

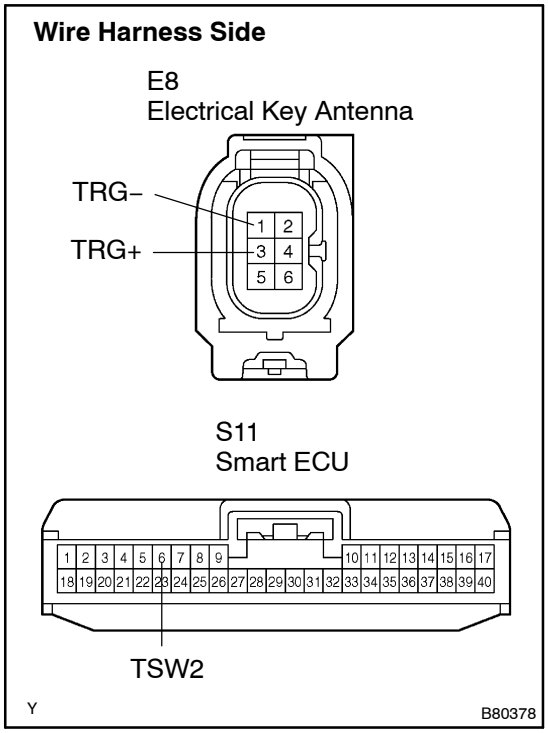
OK:"ON" (P–door trigger switch) appears on the screen.
When the lock switch is pushed, the door is locked and the indicator illuminates.

NG → **Go to step 3**

OK

REPLACE SMART ECU

3	CHECK WIRE HARNESS (ELECTRICAL KEY ANTENNA – SMART ECU AND BODY GROUND)



(a) Disconnect E8 antenna connector.
(b) Disconnect S11 ECU connector.
(c) Measure the resistance of the wire harness side connectors and body ground.

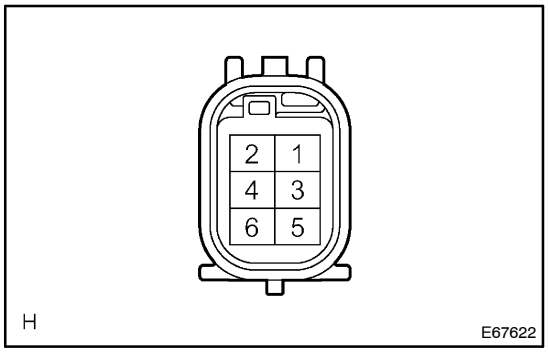
Standard:

Tester Connection	Specified Condition
E8–3 (TRG+) – S11–6 (TSW2)	Below 1 Ω
E8–1 (TRG–) – Body ground	Below 1 Ω
E8–3 (TRG+) – Body ground	10 kΩ or higher

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

OK

4	INSPECT ELECTRICAL KEY ANTENNA



(a) Remove the electrical key antenna.
(b) Measure the antenna resistance.

Standard:

Tester Connection	Condition	Specified Condition
1 – 3	Switch pushed	10 kΩ or higher
1 – 3	Switch not pushed	Below 1 Ω

NG → **REPLACE ELECTRICAL KEY ANTENNA**

OK

REPLACE SMART ECU