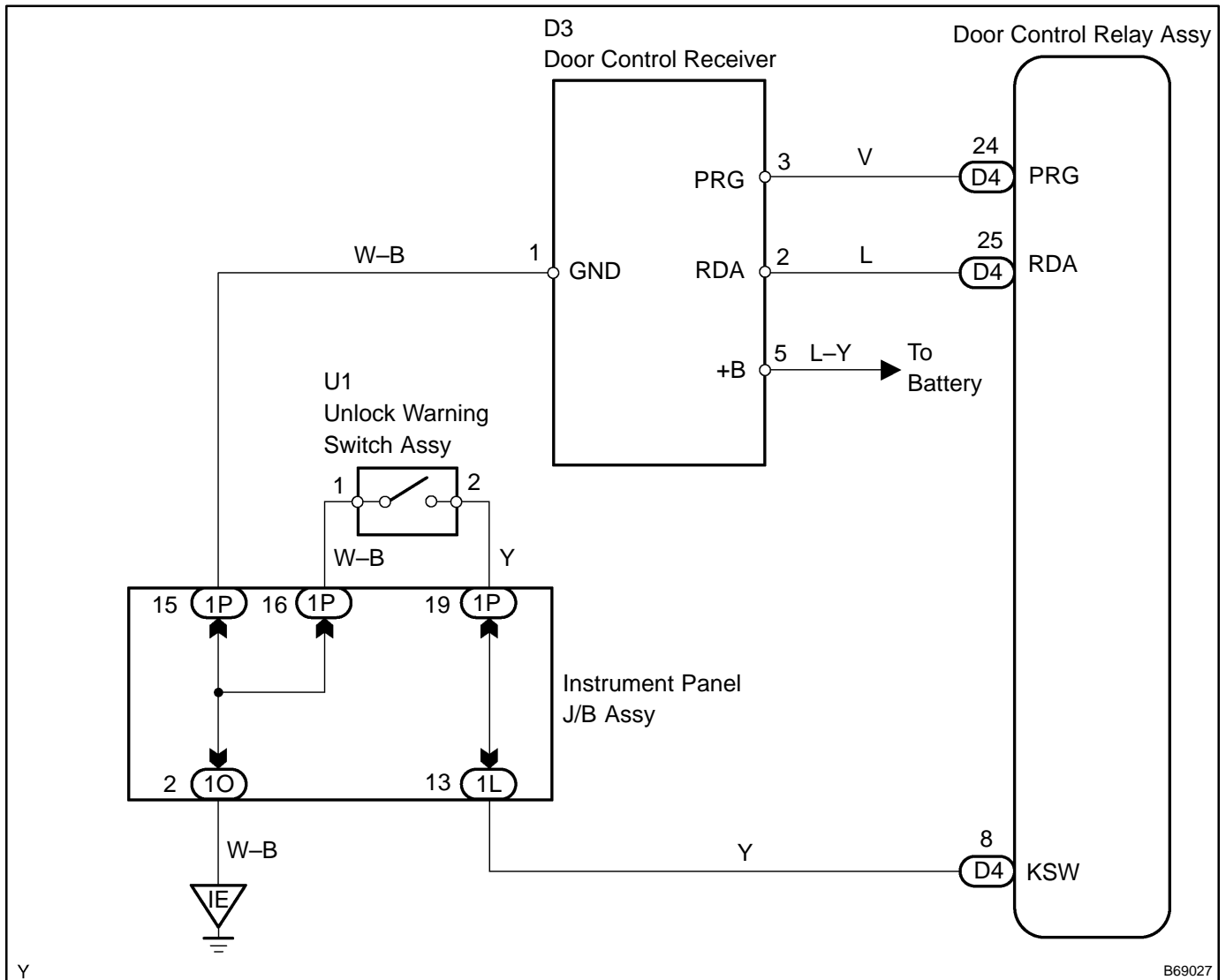


ONLY WIRELESS CONTROL FUNCTION DOES NOT OPERATE (PREPARE NEW OR NORMAL TRANSMITTER OF THE SAME TYPE VEHICLE)

CIRCUIT DESCRIPTION

The door control receiver receives a signal from the transmitter and sends this signal to the door control relay. Then, the door control relay controls door operation by sending a door LOCK/UNLOCK signal to each door lock motor.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

The switch described in this text is a switch for transmitting signals which is built in the door control transmitter.

1 CHECK WIRELESS DOOR LOCK CONTROL FUNCTIONS (See page 73-9)

NG → Go to step 2

OK

NORMAL

2 REPLACE TRANSMITTER BATTERY WITH NORMAL ONE

- (a) After replacing the transmitter battery with a new or normal one, check that the doors can lock and unlock by using the transmitter LOCK/UNLOCK switch.

NG → Go to step 3

OK

REPLACE TRANSMITTER BATTERY

3 CHECK WIRELESS DOOR LOCK CONTROL FUNCTIONS (STANDARD OPERATION)

- (a) Check if UNLOCK-LOCK operates in standard operation.

NOTICE:

Standardized test procedure: Press the transmitter switch for 1 second, directing the beam to driver side door outside handle from a distance of 1 m (39.4 in.). The transmitter should be pointed directly at the door handle, i.e at 90° angle to the vehicle body.

NG → REPLACE DOOR CONTROL TRANSMITTER

OK

4 CONFIRM ROOM LAMP ON

- (a) Check that the room lamp lights up.

HINT:

When the room lamp does not light up, proceed to the self-diagnostic mode after repairing the room lamp.



5	SWITCH TO SELF-DIAGNOSTIC MODE
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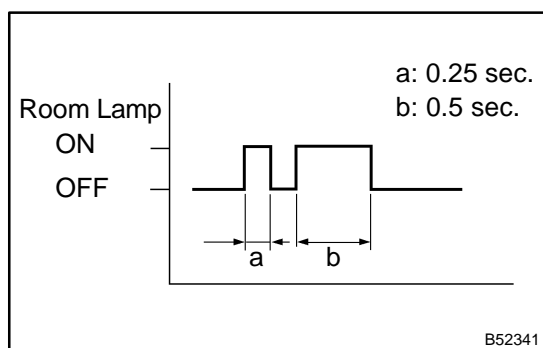
- (a) Switch to self-diagnostic mode by operating the ignition key cylinder.
- (1) Put the vehicle under the vehicle's initial condition (See page 73-9), insert the key into the ignition key cylinder and remove it.
 - (2) Within 5 seconds after the key is removed (step 1), insert the key into the ignition key cylinder (ignition key OFF) and perform the following once: Turn the ignition switch to ON and return it to OFF.
 - (3) Within 30 seconds after the ignition switch is returned to OFF (step 2), perform the following 9 times: Turn the ignition switch to ON and return it to OFF.

NOTICE:

If operation has failed, the system will return to normal mode.

HINT:

- Turning the ignition switch ON after step 3 has been completed will end self-diagnostic mode.
- Do not lock or unlock doors during self-diagnostic mode.



- (b) Check that the system has switched to self-diagnostic mode by the blinking frequency of the room lamp.

NG

Go to step 9

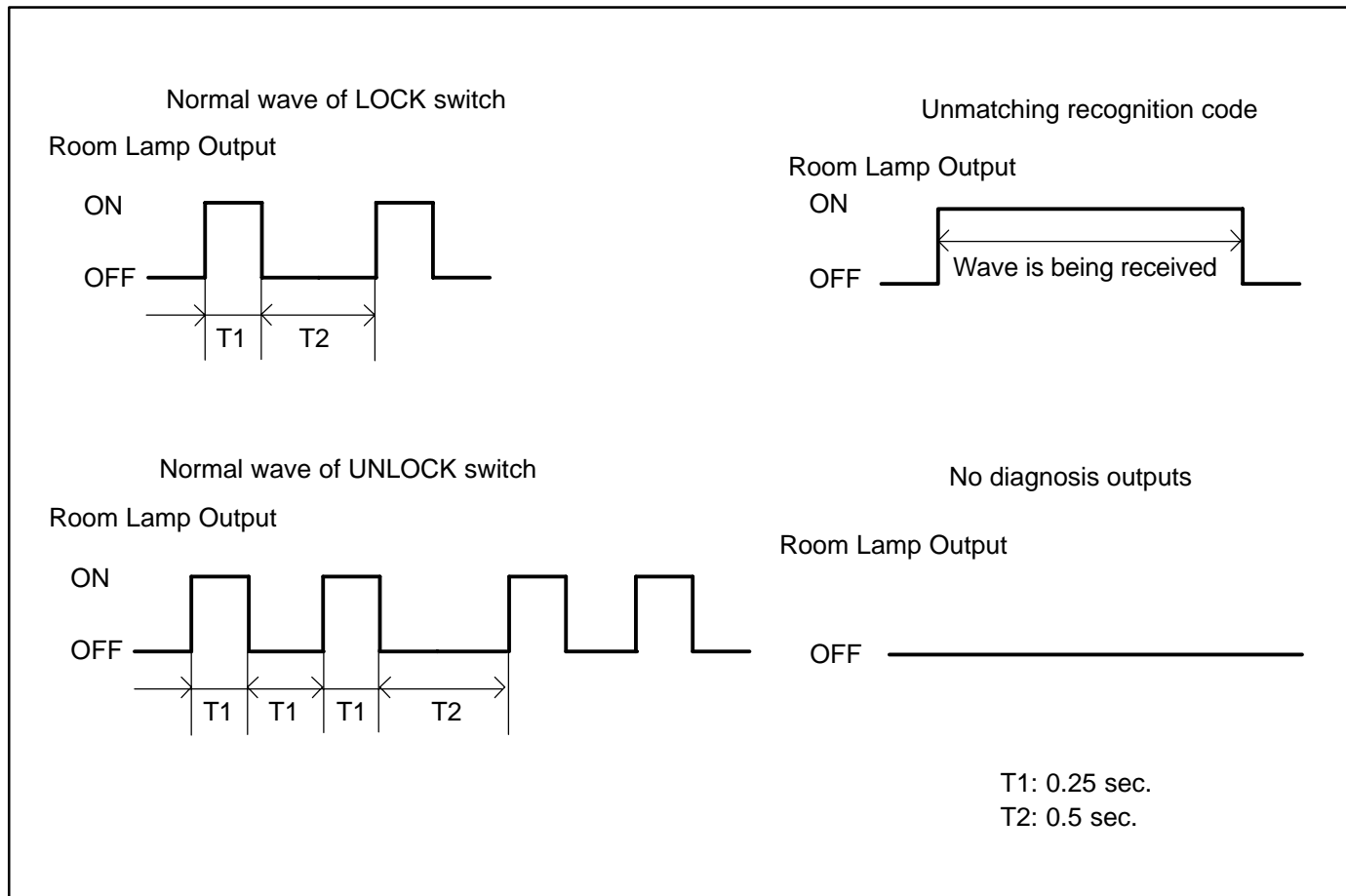
OK

6 CHECK BY SELF-DIAGNOSTIC MODE

(a) Inspect the diagnosis outputs when the door control transmitter switch is held down (The diagnosis outputs can be checked with the outputs of the room lamp).

HINT:

- In the case of a reception of the normal wave of the door LOCK and UNLOCK switch (room lamp blinking), go to step A.
- In the case of an unmatching recognition code (room lamp ON), go to step B.
- In the case of no diagnosis outputs (room lamp OFF), go to step C.



A → **REPLACE DOOR CONTROL RELAY ASSY**

C → **Go to step 8**

B

7 REGISTER RECOGNITION CODE

(a) Check that the system can switch to rewrite mode or add mode and whether a recognition code can be registered.

NG Go to step 15

OK

NORMAL (CARRY OUT INSPECTION OF FUNCTIONS)

8 CHECK RESPONSE OF DOOR CONTROL RECEIVER

(a) When a new or normal door control transmitter switch for the same type vehicle is held down, check that a diagnosis of unmatching recognition code is output.

NG Go to step 12

OK

REPLACE DOOR CONTROL TRANSMITTER

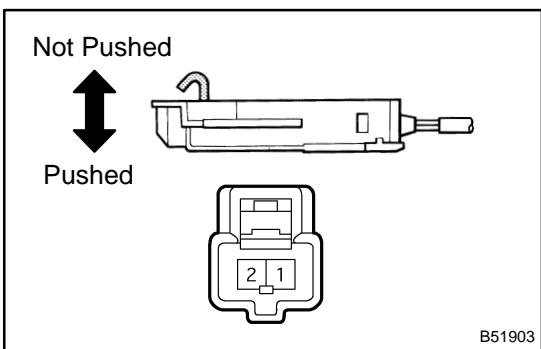
9 CONFIRM INPUT METHOD OF SELF-DIAGNOSTIC MODE

(a) When the method for switching the system to self-diagnostic mode works, proceed to A.
 (b) When the method for switching the system to self-diagnostic mode does not work, proceed to B.

B Go to step 5

A

10 INSPECT UNLOCK WARNING SWITCH ASSY



(a) Check the resistance of the switch.

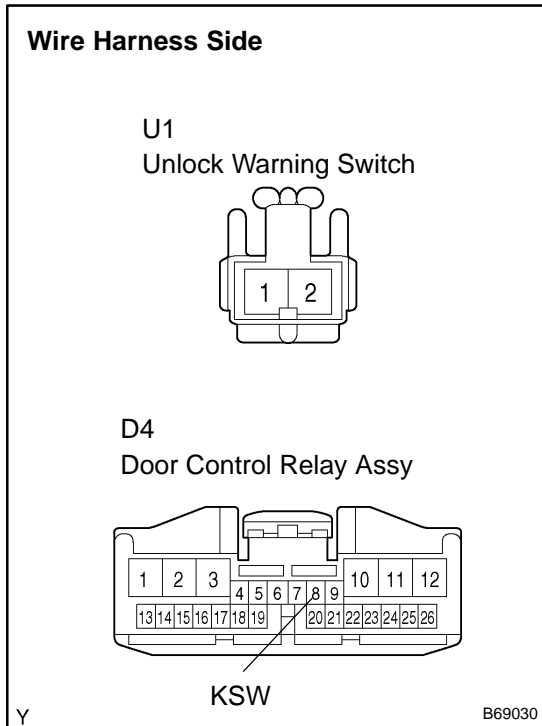
Standard:

Tester Connection	Switch Condition	Specified Condition
1-2	Not pushed	10 kΩ or higher
	Pushed	Below 1 Ω

NG REPLACE UNLOCK WARNING SWITCH ASSY

OK

11 CHECK WIRE HARNESS (UNLOCK WARNING SWITCH ASSY- DOOR CONTROL RELAY ASSY AND BODY GROUND)



- (a) Disconnect the U1 warning switch connector.
- (b) Disconnect the D4 relay connector.
- (c) Check the resistance of the wire harness side connectors.

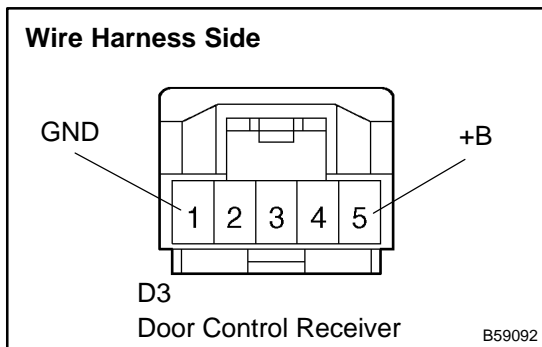
Standard:

Tester Connection	Specified Condition
U1-2 - D4-8 (KSW)	Below 1 Ω
U1-1 - Body ground	

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

12 CHECK WIRE HARNESS (DOOR CONTROL RECEIVER - BODY GROUND)



- (a) Disconnect the D3 receiver connector.
- (b) Check the voltage and resistance between the wire harness side connector of the receiver and body ground.

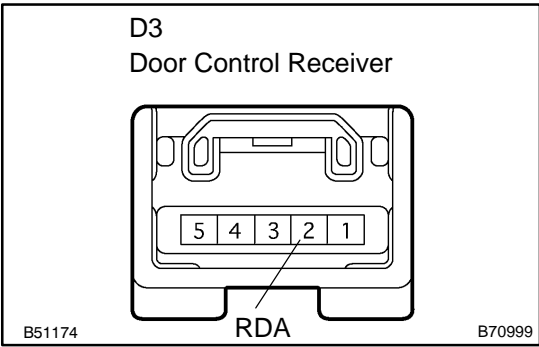
Standard:

Tester Connection	Specified Condition
D3-5 (+B) - Body ground	10 to 14 V
D3-1 (GND) - Body ground	Below 1 Ω

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

13 CHECK DOOR CONTROL RECEIVER (OUTPUT)



- (a) Reconnect the D3 receiver connector and check the voltage between the terminal and body ground.

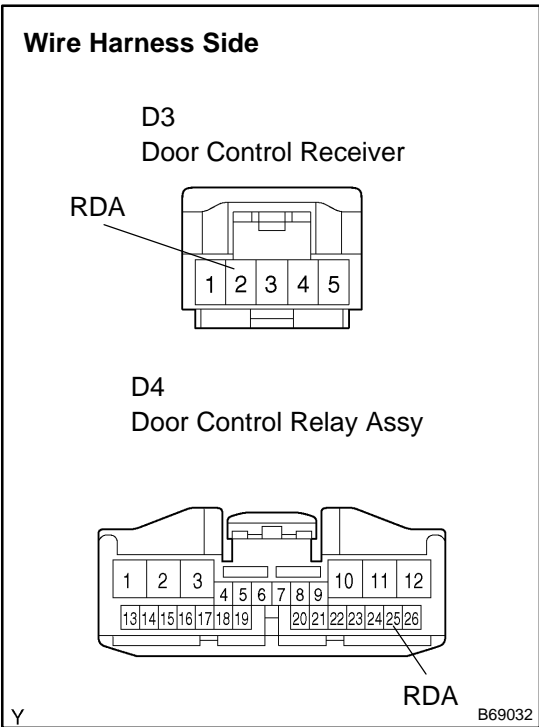
Standard:

Tester Connection	Condition	Specified Condition
D3-2 (RDA) - Body ground	No key in ignition key cylinder, all doors closed and each transmitter switch OFF → ON	Below 1 V → Approx. 6 to 7 V → Below 1 V

NG → Go to step 15

OK

14 CHECK WIRE HARNESS (DOOR CONTROL RECEIVER - DOOR CONTROL RELAY ASSY) (DOOR CONTROL RECEIVER OR DOOR CONTROL RELAY ASSY - BODY GROUND)



- (a) Disconnect the D3 receiver connector.
- (b) Disconnect the D4 relay connector.
- (c) Check the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
D3-2 (RDA) - D4-25 (RDA)	Below 1 Ω
D3-2 (RDA) - Body ground	10 kΩ or higher
D4-25 (RDA) - Body ground	

NG → REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

15	REPLACE DOOR CONTROL RECEIVER WITH NORMAL ONE
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NG

REPLACE DOOR CONTROL RELAY ASSY

OK

REPLACE DOOR CONTROL RECEIVER
