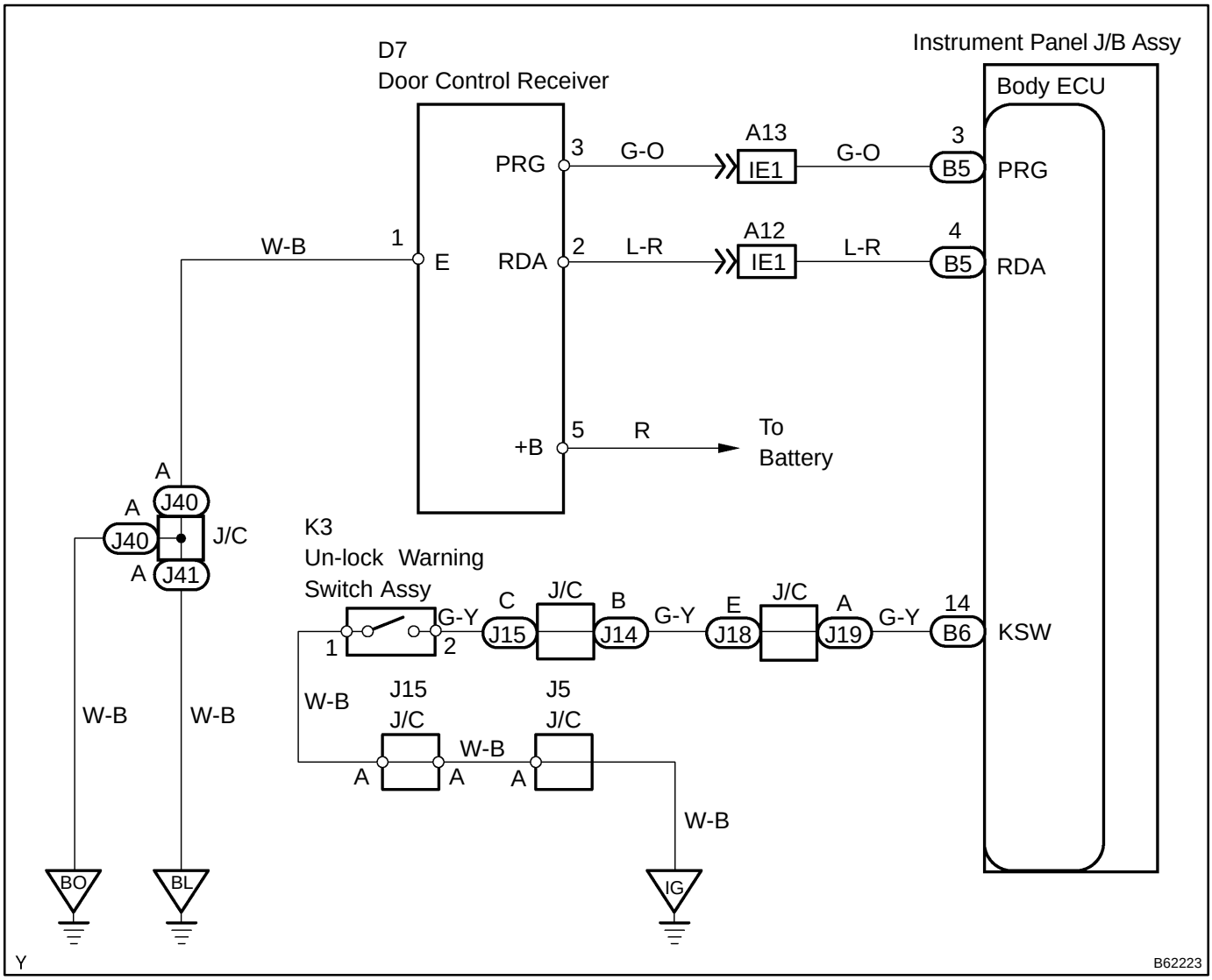
ONLY WIRELESS CONTROL FUNCTION DOES NOT OPERATE (PREPARE NEW OR NORMAL TRANSMITTER OF THE SAME TYPE VEHICLE)

CIRCUIT DESCRIPTION

The door control receiver receives a signal from the transmitter and sends this signal to the body ECU. The body ECU sends a door LOCK/UNLOCK signal to each door lock motor to control it.

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 FUNCTIONS (See page 73-1 1)

OK → NORMAL

NG

2	SIMPLY CHECK TRANSMITTER BATTERY

(a) After replacing the transmitter battery with a new or normal one and then operating the transmitter LOCK/UNLOCK in the standard operation, check that the doors can lock and unlock even after operating it more than 3 times.

NOTICE:

Standard operation, herein, means operation to press the transmission switch for 1 second, directing the transmitter to the vehicle in the location that is 100 cm (39.37 in.) away from the driver side door outside handle in the right direction.

NG → Go to step 7

OK

REPLACE TRANSMITTER BATTERY

3	CHECK WIRELESS DOOR LOCK BUZZER

(a) Check that the wireless door lock buzzer sounds.

NG → GO TO FLOW CHART (See page 05-1201)

OK

4	ENTER INTO SELF-DIAGNOSTIC MODE

(a) Enter into the self-diagnostic mode by operating the hand-held tester.
  (1) Connect the hand-held tester to the DLC3.
  (2) Turn the ignition switch ON and hand-held tester main switch ON.
  (3) Please refer to the hand-held tester operator's manual for further details.

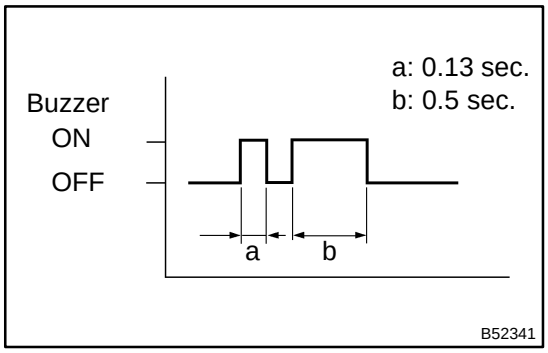
(b) Enter into the self-diagnostic mode by operating the ignition key cylinder.
  (1) Insert the key into the ignition key cylinder and remove it under the vehicle initial condition (See page 73-1 1).
  (2) Within 5 seconds after the above step, insert the key into the ignition key cylinder and turn the ignition switch ON → OFF once.
  (3) Within 30 seconds after the above step, operate the ignition switch ON → OFF 9 times.

NOTICE:

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

HINT:

- Operation of the ignition switch OFF → ON will end the self-diagnostic mode.
- Do not lock or unlock doors during the self-diagnostic mode.



(c) Check that the system has entered into the self-diagnostic mode by the answer-back of the wireless door lock buzzer sound.

NG → **Go to step 9**

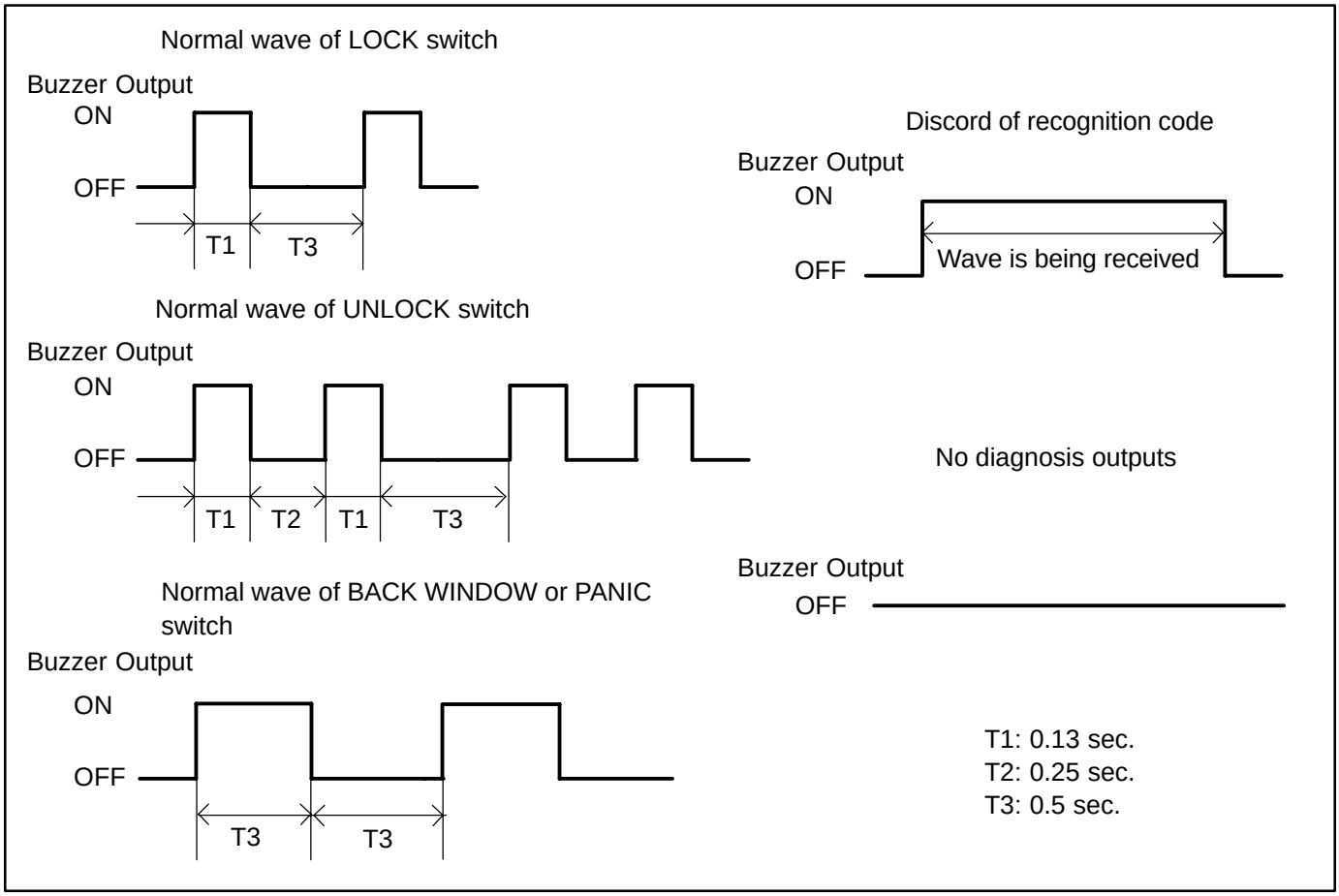
OK

5	CHECK BY SELF-DIAGNOSTIC MODE

(a) Inspect the diagnosis outputs when the door control transmitter switch has been kept pressed (The diagnosis outputs can be checked with the sound of the wireless door lock buzzer).

HINT:

- In case of a reception of the normal wave of the LOCK, UNLOCK, BACK WINDOW or PANIC switch (wireless door lock buzzer sounds), go to step A.
- In case of discord of recognition code (wireless door lock buzzer ON), go to step B.
- In case of no diagnosis outputs (wireless door lock buzzer OFF), go to step C.



A	REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY

C	Go to step 7

B

6	REGISTER RECOGNITION CODE

(a) Check that the system can enter into the rewrite mode or the add mode, and also a recognition code can be registered.

NG → Go to step 8

OK

NORMAL (CARRY OUT INSPECTION OF FUNCTIONS)

7	CHECK RESPONSE OF DOOR CONTROL RECEIVER

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

NG → Go to step 12

OK

REPLACE DOOR CONTROL TRANSMITTER

8	REPLACE DOOR CONTROL RECEIVER WITH NORMAL ONE

NG → REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY

OK

REPLACE DOOR CONTROL RECEIVER

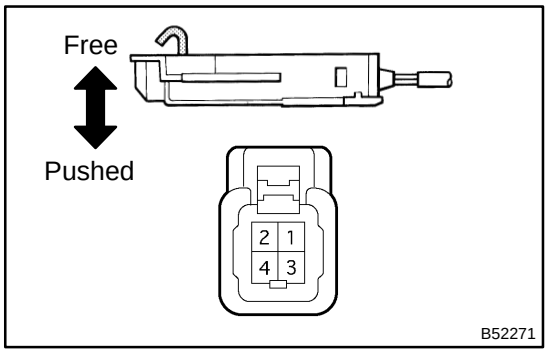
9	CONFIRM INPUT METHOD OF SELF-DIAGNOSTIC MODE

(a) When the method that the system enters into the self-diagnostic mode is correct, proceed to A.
(b) When the method that the system enters into the self-diagnostic mode is incorrect, proceed to B.

B → Go to step 4

A

10	INSPECT UN-LOCK WARNING SWITCH ASSY



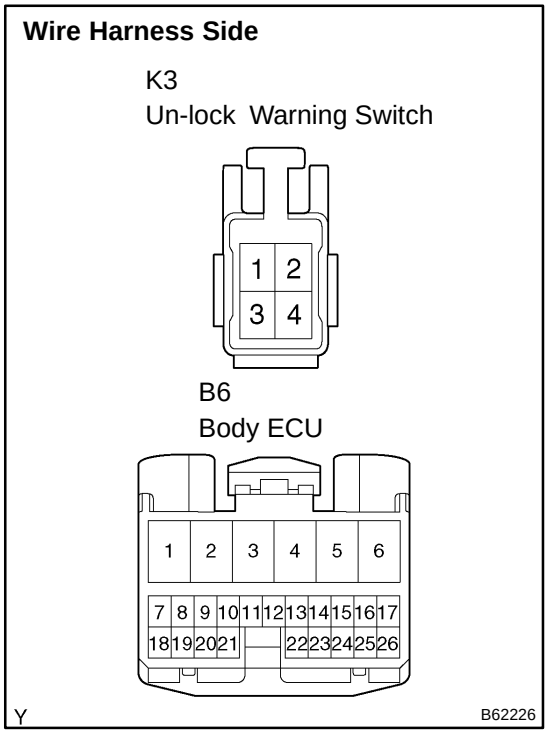
(a) Inspect the continuity of the un-lock warning switch.
Standard:

Terminal No.	Condition	Specified Condition
1 ⇔ 2	Switch free (Key removed)	No continuity
	Switch pushed (Key set)	Continuity

NG → **REPLACE UN-LOCK WARNING SWITCH ASSY**

OK

11	CHECK WIRE HARNESS (UN-LOCK WARNING SWITCH ⇔ BODY ECU) (UN-LOCK WARNING SWITCH ⇔ BODY GROUND)



(a) Disconnect the K3 warning switch connector.
(b) Disconnect the B6 ECU connector.
(c) Check the continuity between the wire harness side connectors.
Standard:

Terminal No.	Specified Condition
K3-2 ⇔ B6-14	Continuity

(d) Check the continuity between the K3 warning switch connector and body ground.
Standard:

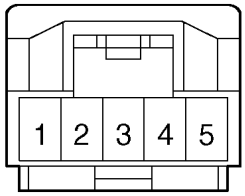
Terminal No.	Specified Condition
K3-1 ⇔ Body ground	Continuity

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

OK

12 CHECK DOOR CONTROL RECEIVER (POWER SOURCE AND GROUND)

Wire Harness Side



D7
Door Control Receiver

B59092

(a) Disconnect the D7 receiver connector.
(b) Check the voltage or continuity between the D7 receiver wire harness side connector and body ground.

Standard:

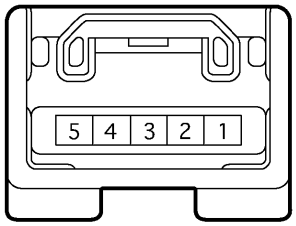
Symbols (Terminal No.)	Specified Condition
+B (D7-5) ⇔ Body ground	10 - 14 V
E (D7-1) ⇔ Body ground	Continuity

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

OK

13 CHECK DOOR CONTROL RECEIVER (OUTPUT)

Door Control Receiver



B51174

(a) Reconnect the D7 receiver connector, and check the voltage between the terminal and body ground.

Standard:

Symbols (Terminal No.)	Condition	Specified Condition
RDA (D7-2) ⇔ Body ground	Ignition switch OFF, No key in ignition key cylinder, All doors closed, Each transmitter switch OFF → ON	Below 1 V → Approx. 6 - 7 V → Below 1 V

NOTICE:
Check the output voltage with the bar graph display.

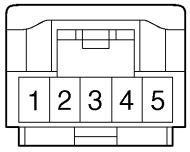
OK → **Go to step 15**

NG

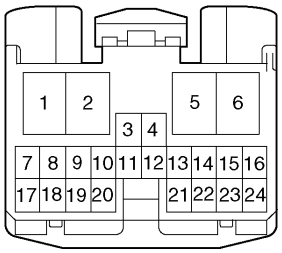
14	CHECK WIRE HARNESS (DOOR CONTROL RECEIVER ⇔ BODY ECU) (DOOR CONTROL RECEIVER OR BODY ECU ⇔ BODY GROUND)

Wire Harness Side

D7
Door Control Receiver



B5
Body ECU



Y B62225

(a) Disconnect the D7 receiver connector.
(b) Disconnect the B5 ECU connector.
(c) Check the continuity between the wire harness side connectors.

Standard:

Symbols (Terminal No.)	Specified Condition
RDA (D7-2) ⇔ RDA (B5-4)	Continuity

(d) Check the continuity between the D7 receiver connector or B5 ECU connector and body ground.

Standard:

Symbols (Terminal No.)	Specified Condition
RDA (D7-2) ⇔ Body ground	No continuity
RDA (B5-4) ⇔ Body ground	No continuity

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

OK

15	REPLACE DOOR CONTROL RECEIVER WITH NORMAL ONE

OK → **REPLACE DOOR CONTROL RECEIVER**

NG

REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY