

<b>DTC</b>	<b>B2796</b>	<b>NO COMMUNICATION IN IMMOBILISER SYSTEM</b>
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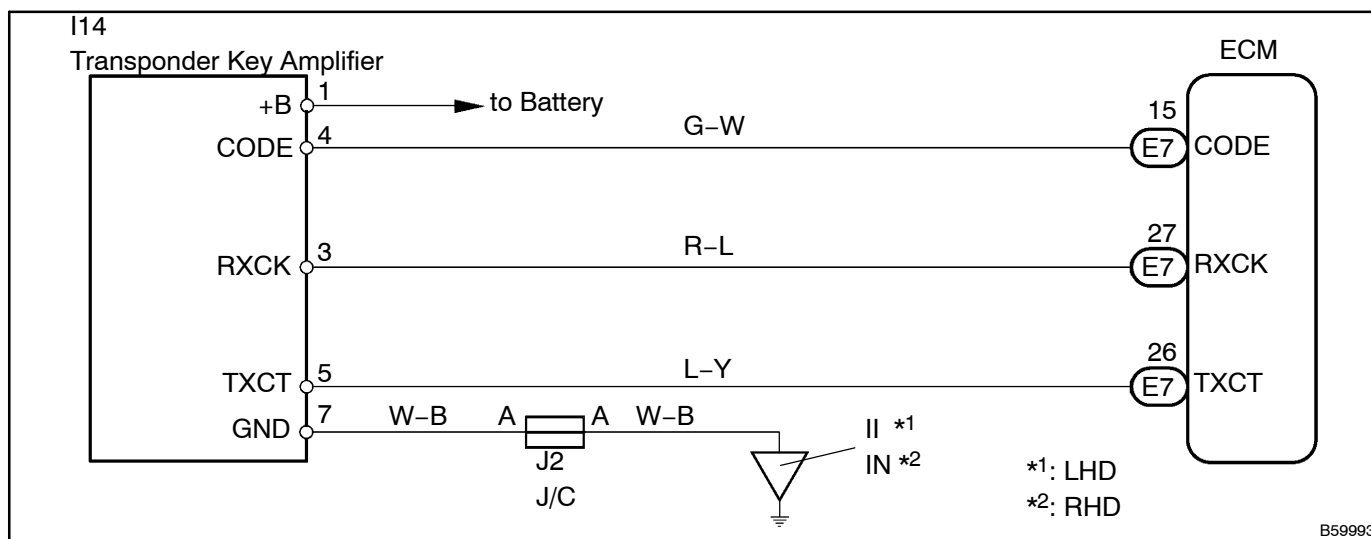
<b>DTC</b>	<b>B2798</b>	<b>COMMUNICATION MALFUNCTION NO.2</b>
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## CIRCUIT DESCRIPTION

This DTC is output if no communication exists between the key and amplifier when the key is inserted.

DTC No.	DTC detection condition	Trouble area
B2796	No communication	<ul style="list-style-type: none"> <li>• Key</li> <li>• Transponder key amplifier</li> <li>• Wire harness</li> <li>• ECM</li> </ul>
B2798	Communication error	<ul style="list-style-type: none"> <li>• Key</li> <li>• Transponder key amplifier</li> <li>• Wire harness</li> <li>• ECM</li> </ul>

## WIRING DIAGRAM



## INSPECTION PROCEDURE

<b>1</b>	<b>READ VALUE OF HAND-HELD TESTER</b>
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- Connect the hand-held tester to the DLC3.
- Turn the ignition switch ON and push the hand-held tester main switch ON.
- Select the item "KEY TYPE" in the DATA LIST and read its value displayed on the hand-held tester.

**OK:**

**Key type / MASTER or SUB**

**OK**

**MALFUNCTION OCCURS IN ENGINE INCLUDING ECM**

**NG**

**2 CHECK WHETHER ENGINE STARTS WITH OTHER KEYS**

- (a) Check whether the engine starts with the other keys for the vehicle.

NG

Go to step 4

OK

**3 REREGISTER OR REPLAE KEY THAT DOES NOT START ENGINE**

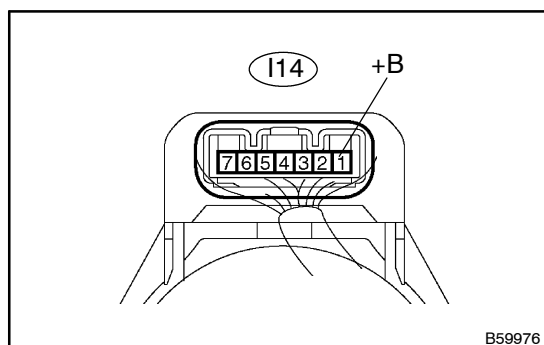
- (a) Check whether the engine starts, after registering of the key that does not start the engine has been done.

OK

END

NG

TRANSPONDER CHIP OF A SPECIFIC KEY IS DETECTIVE AND REPLACE KEY

**4 CHECK TRANSPONDER KEY AMPLIFIER (+B)**

- (a) Insert the already registered master key in the key cylinder.  
 (b) Check the voltage between the terminal of the I14 transponder key amplifier connector and the body ground.

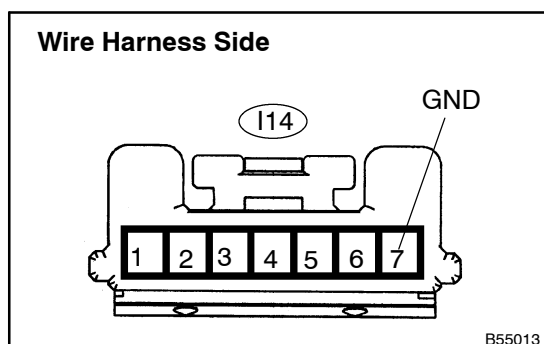
**Standard:**

Symbols (Terminal No.)	Specified condition
+B (I14-1) ⇔ Body ground	10 - 14 V

NG

REPAIR OR REPLACE WIRE HARNESS AND CONNECTOR

OK

**5 CHECK TRANSPONDER KEY AMPLIFIER (GND)****Wire Harness Side**

- (a) Disconnect the I14 transponder key amplifier connector.  
 (b) Check the continuity between the terminal of the transponder key amplifier connector and the body ground.

**Standard:**

Symbols (Terminal No.)	Specified condition
GND (I14-7) ⇔ Body ground	Continuity

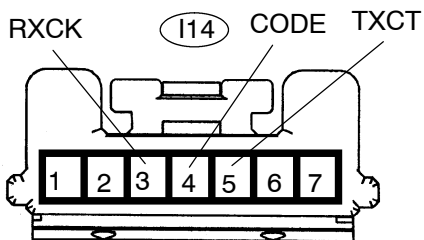
NG

REPAIR OR REPLACE WIRE HARNESS AND CONNECTOR

OK

**6 CHECK WIRE HARNESS****Wire Harness Side**

Transponder Key Amplifier



B55013

- (a) Disconnect the I14 transponder key amplifier and E7 ECM connectors.
- (b) Check the continuity between each terminal of the transponder key amplifier wire harness side connector and the ECM wire harness side connector.

**Standard (Check for open):**

Symbols (Terminal No.) (ECM ⇔ Amplifier)	Specified condition
CODE (E7-15) ⇔ CODE (I14-4)	Continuity
RXCK (E7-27) ⇔ RXCK (I14-3)	Continuity
TXCT (E7-26) ⇔ TXCT (I14-5)	Continuity

**Standard (Check for short):**

Symbols (Terminal No.) (ECM or Amplifier ⇔ Body ground)	Specified condition
CODE (E7-15) or CODE (I14-4) ⇔ Body ground	No continuity
RXCK (E7-27) or RXCK (I14-3) ⇔ Body ground	No continuity
TXCT (E7-26) or TXCT (I14-5) ⇔ Body ground	No continuity

**NG****REPAIR OR REPLACE WIRE HARNESS AND CONNECTOR****OK****7 CHECK TRANSPONDER KEY AMPLIFIER**

- (a) Check that the engine will start when connected to a new or normal transponder key amplifier.

**OK****NORMAL****NG****REPLACE ECM**