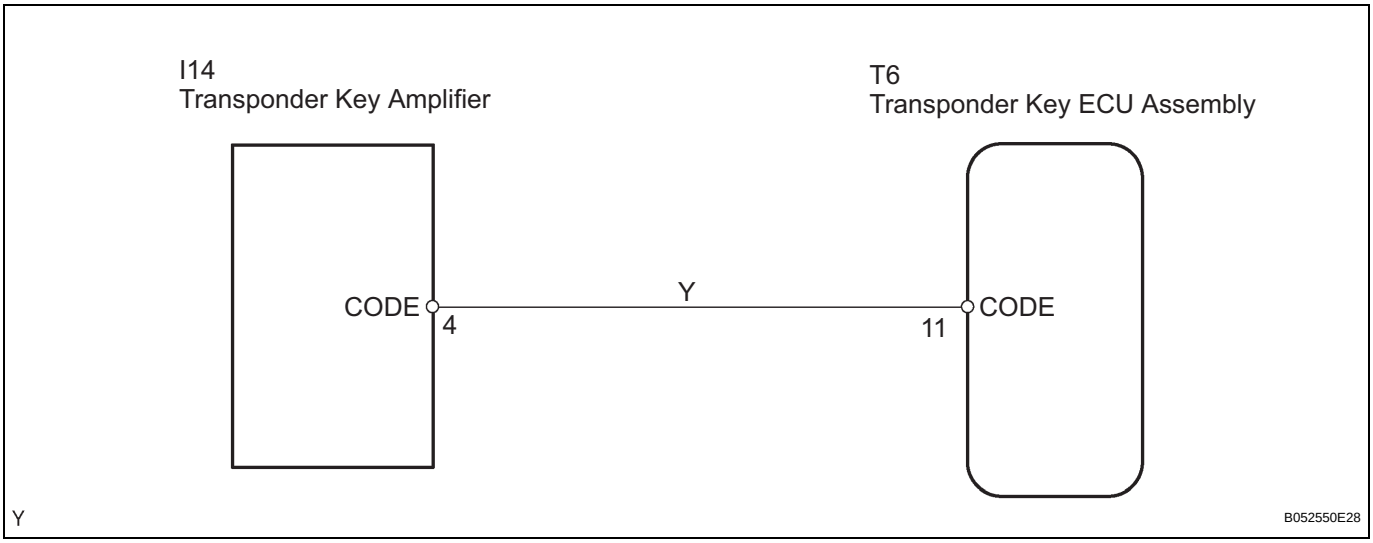
DTC	B2797	Communication Malfunction No. 1

DESCRIPTION

This DTC is output when an error occurs in normal communication.
HINT:
Some noise found in the communication line.

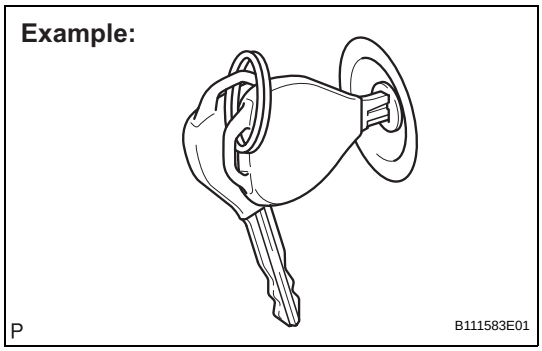
DTC No.	DTC Detection Condition	Trouble Area
B2797	Keys are positioned too close to each other, or noise occurred in communication line.	• Key • Transponder key amplifier • Wire harness • Transponder key ECU assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK KEY



(a) Check whether the ignition key being used is near other ignition keys, as shown in the illustration. Also, check whether the key ring is in contact with the key grip.
Result

Result	Proceed to
Key is near other keys and/or key ring is in contact with key grip.	**A**
Key is not near other keys and / or key ring is not in contact with key grip.	**B**

B → **Go to step 3**

A

2	CHECK DTC OUTPUT

(a) Delete the DTC (See page EI-15).

(b) Insert the key into the ignition key cylinder.
(c) Check that no code is output.
OK:
No DTC is output.

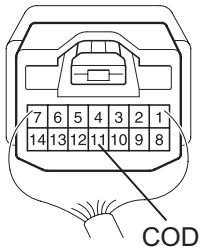
OK → **END**

NG

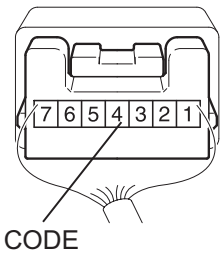
3 CHECK TRANSPONDER KEY AMPLIFIER

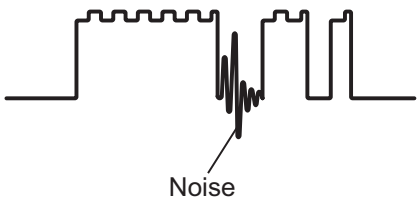
Wire Harness Side Connector Rear View:

T6
Transponder Key ECU Assembly



I14
Transponder Key Amplifier





P B111615E06

(a) Using an oscilloscope or the intelligent tester, check the waveform between the terminals of the I14 amplifier and T6 ECU connector.
Check that no noise is included in the waveform (an example of noise is shown on the left).
(b) Check that no noise is included in the waveform (an example of noise is shown on the left).
Result

Tester Connection	Specified Condition
I14-4 (CODE) - T6-11 (CODE)	**No noise is present**

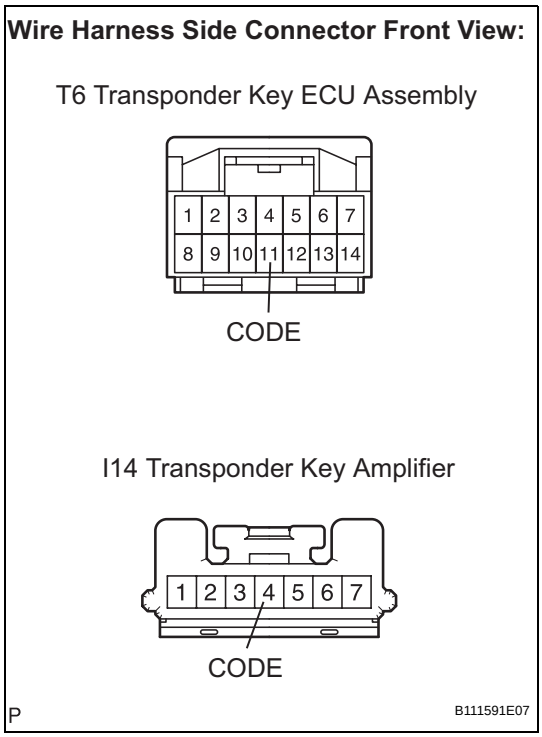
Tool Setting	2 V/DIV., 20 ms/DIV.
Condition	Key inserted into ignition key cylinder.

NG → **FIND CAUSE OF NOISE AND REMOVE IT**

OK

EI

4	CHECK HARNESS AND CONNECTOR (TRANSPONDER KEY ECU - TRANSPONDER KEY AMPLIFIER)



(a) Disconnect the T6 ECU and I14 amplifier connectors.
(b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Specified Condition
T6-11 (CODE) - I14-4 (CODE)	Below 1 Ω

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

OK

5	REPLACE TRANSPONDER KEY AMPLIFIER

(a) After replacing the transponder key amplifier with a normally functioning transponder key amplifier, check that the engine starts.

OK:

The engine starts

NG → **REPLACE TRANSPONDER KEY ECU ASSEMBLY**

OK

END (TRANSPONDER KEY AMPLIFIER DEFECTIVE)