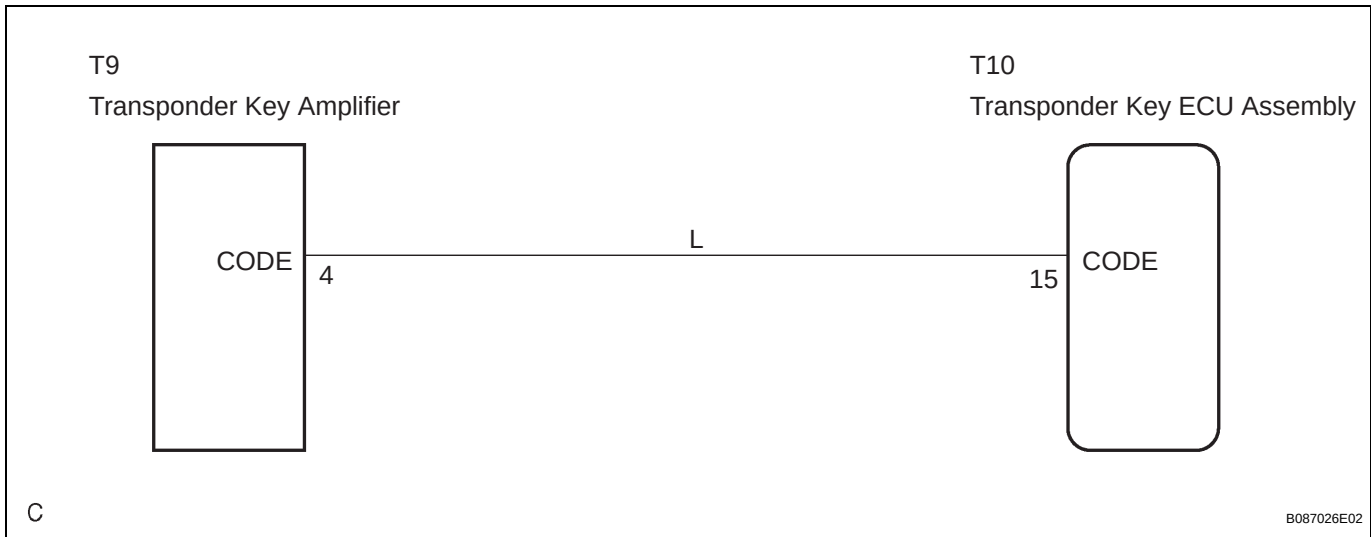
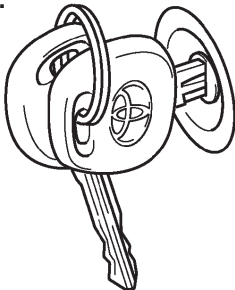


DTC**B2797****Communication Malfunction No. 1****DESCRIPTION**

This DTC is output when a communication error occurs between the transponder key amplifier and transponder key ECU assembly. Some possible reasons for the communication error are: 1) 2 or more ignition keys are positioned too close to each other, or 2) noise is occurring in the communication line.

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

EI**WIRING DIAGRAM****INSPECTION PROCEDURE****1****CHECK KEYS****Example:**

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

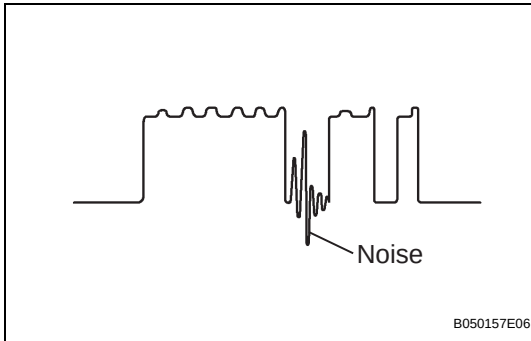
Result

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

B**Go to step 3****A**

2**CHECK DTC OUTPUT**

- (a) Separate the keys from each other. Or, remove the key ring.
- (b) Delete the DTC (See page EI-17).
- (c) Insert a key into the ignition cylinder. Remove it. Perform this step for all the other keys.
- (d) Check that no code is output.

OK**END****NG****3****CHECK TRANSPONDER KEY ECU ASSEMBLY**

- (a) Using an oscilloscope or the intelligent tester, check the waveform between the terminals of the T9 amplifier connector and T10 ECU connector. The waveform should be similar to the illustration on the left.

Result

Tester Connection	Specified Condition
T10-15 (CODE) - T9-4 (CODE)	No noise is present

Tool Setting	10 V/DIV., 20 ms/DIV.
Condition	Ignition switch OFF → ON

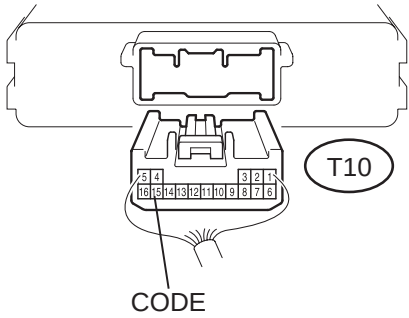
NG**FIND CAUSE OF NOISE AND REMOVE IT****OK**

4

CHECK HARNESS AND CONNECTOR

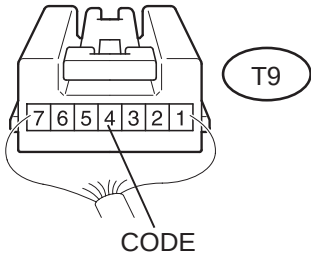
Transponder Key ECU Assembly:

Wire Harness Rear View:



Transponder Key Amplifier:

Wire Harness Rear View:



P

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- (a) Disconnect the T10 ECU and T9 amplifier connectors.
- (b) Measure the resistance according to the value(s) in the table below.
- Standard resistance

Tester Connection	Condition	Specified Condition
T10-15 (CODE) - T9-4 (CODE)	Always	Below 1 Ω
T10-15 (CODE) - Body ground	Always	10 kΩ or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

5

CHECK TRANSPONDER KEY AMPLIFIER

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

NG

REPLACE TRANSPONDER KEY ECU ASSEMBLY

OK

END