05HT8-01

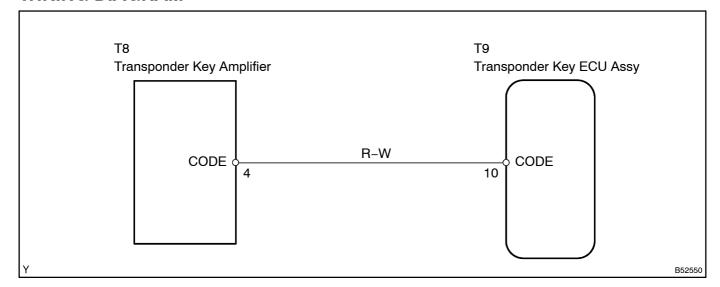
DTC	B2797	COMMUNICATION MALFUNCTION NO.1
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CIRCUIT DESCRIPTION

This DTC is output when a communication error occurs between the transponder key amplifier and transponder key ECU. Some possible reasons for the communication error are: 1) two or more ignition keys are positioned too close together, or 2) noise is occurring in the communication line. Follow the inspection procedure below.

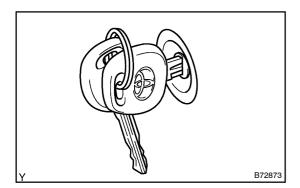
DTC No.	DTC Detection Condition	Trouble Area
B2797	Keys are positioned too close to each other, or noise oc- curred in communication line	KeyWire harnessTransponder key amplifierTransponder key ECU assy

WIRING DIAGRAM



INSPECTION PROCEDURE

1 | CHECK[KEYS



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

Result:

Result	Proceed[<u>T</u> o
Key[]s[]near[]other[]keys[]and/or[]key[]ings[]s[]n[]ontact[]with key[]grip.	Α
Key[]s[]hot[]hear[]other[]keys[]and/or[]key[]ing[]s[]hot[]n[]contact with[]]he[]key[]grip.	В

B[] Go[to[\$tep[3	



2 | CHECK[FOR[DTCS

- (a) Separate the keys from each other. Or, we move the key fring.
- (b) Delete the DTC see page 05-3039).
- (c) Insert a key into the ignition cylinder. Remove it. Repeat for all the other keys.
- (d) Check that no code is output.

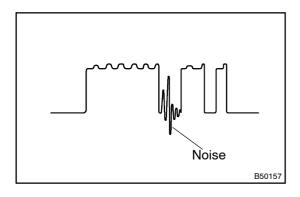
NG Go to step 3

OK

END

3

CHECK TRANSPONDER KEY ECU ASSY



(a) Using an oscilloscope or the hand-held tester, check the waveform between the terminals of T8 amplifier connector and T9 ECU connector. The waveform should be similar to the illustration on the left.

OK: No noise present (see illustration on the left).

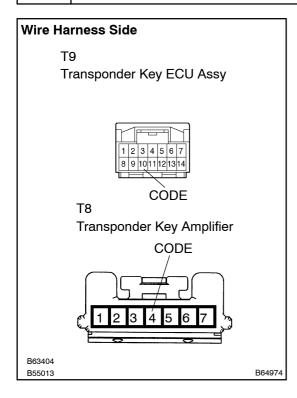
nection	Specified Condition	
Γ8-4 (CODE)	No noise is present	
10 V/DIV., 20 ms/DIV.		
Ignition switch OFF → ON		
	78-4 (CODE)	

NG > FI

FIND CAUSE OF NOISE AND REMOVE IT

OK

4 CHECK WIRE HARNESS (TRANSPONDER KEY ECU ASSY – TRANSPONDER KEY AMPLIFIER)



- (a) Disconnect the T9 ECU and T8 amplifier connectors.
- (b) Measure the resistance between the terminals of the connectors.

Standard:

Tester Connection	Specified Condition	
T9-10 (CODE) - T8-4 (CODE)	Below 1 Ω	

NG	REPAIR	OR	REPLACE	HARNESS	AND
	CONNEC	TOR			

_OK__

5 CHECK OPERATION OF TRANSPONDER KEY AMPLIFIER

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

OK: Engine starts.

NG REPLACE TRANSPONDER KEY ECU ASSY

OK

END