

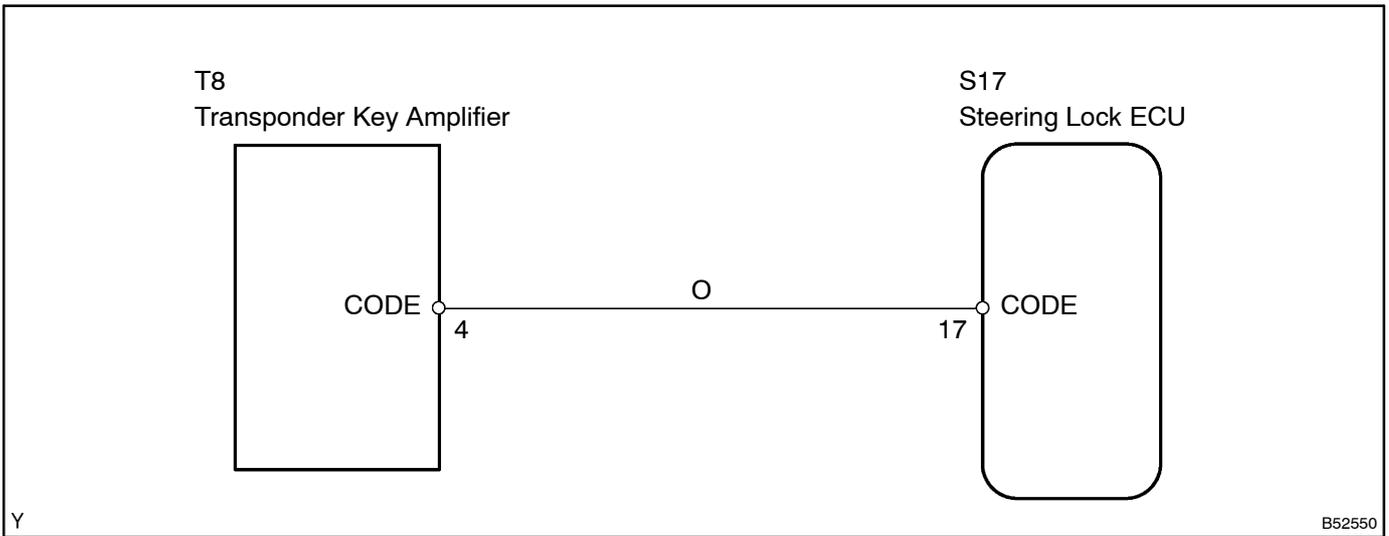
DTC	B2797	COMMUNICATION MALFUNCTION NO.1
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CIRCUIT DESCRIPTION

This DTC is output when a communication error occurs between the transponder key amplifier and steering lock ECU. Some possible reasons for the communication error are: 1) two or more smart 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 occurred in communication line	<ul style="list-style-type: none"> • Key • Wire harness • Transponder key amplifier • Steering lock ECU

WIRING DIAGRAM

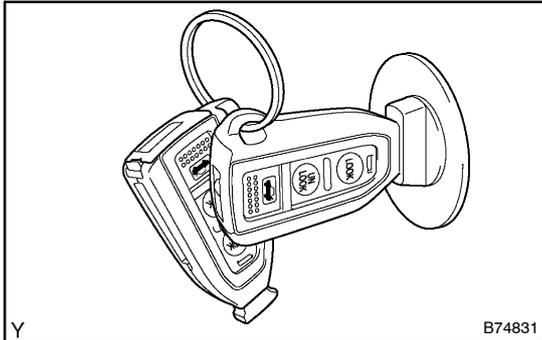


Y

B52550

INSPECTION PROCEDURE

1 CHECK KEYS



- (a) Check if the smart key being used is near other smart 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/or key ring is not in contact with the key grip.	B

B Go to step 3

A

2 CHECK FOR DTCs

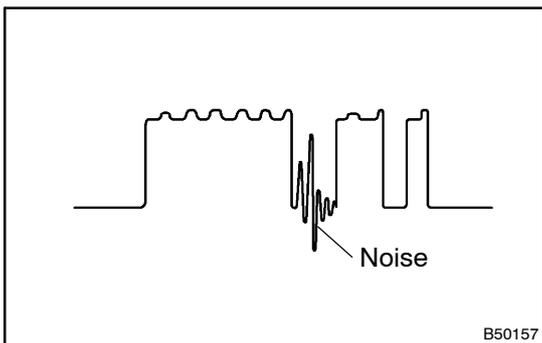
- (a) Separate the keys from each other. Or, remove the key ring.
- (b) Delete the DTC (see page 05-3006).
- (c) Insert a key into the ignition key cylinder. Remove it. Repeat for all the other keys
- (d) Check that no code is output.

NG Go to step 3

OK

END

3 CHECK STEERING LOCK ECU



- (a) Using an oscilloscope or the hand-held tester check the waveform between the terminals of T8 amplifier connector and S17 ECU connector. The waveform should be similar to the illustration on the left.

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

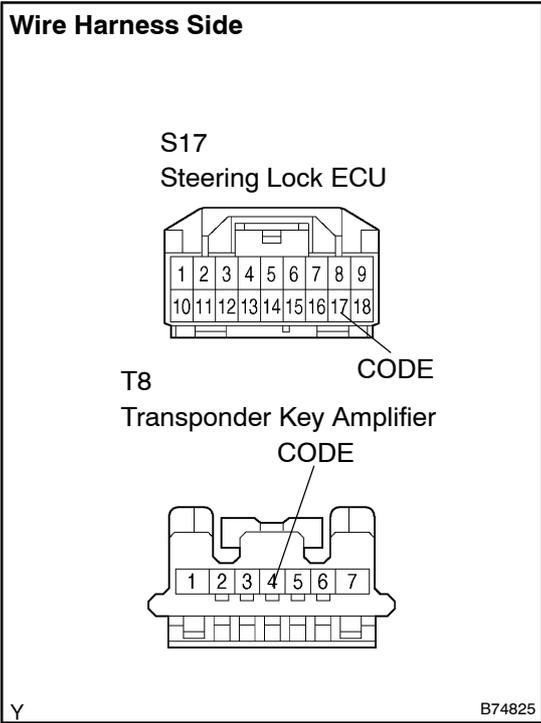
Tester Connection	Specified Condition
S17-17 (CODE) - T8-4 (CODE)	No noise is present

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

NG FIND CAUSE OF NOISE AND REMOVE IT

OK

4 CHECK WIRE HARNESS (STEERING LOCK ECU - TRANSPONDER KEY AMPLIFIER)



- (a) Disconnect the S17 ECU and T8 amplifier connectors.
- (b) Measure the resistance between the terminals of the connectors.

Standard:

Tester Connection	Specified Condition
S17-17 (CODE) - T8-4 (CODE)	Below 1 Ω

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

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 STEERING LOCK ECU

OK

END