

DTC	B2796	NO COMMUNICATION IN IMMOBILISER SYSTEM
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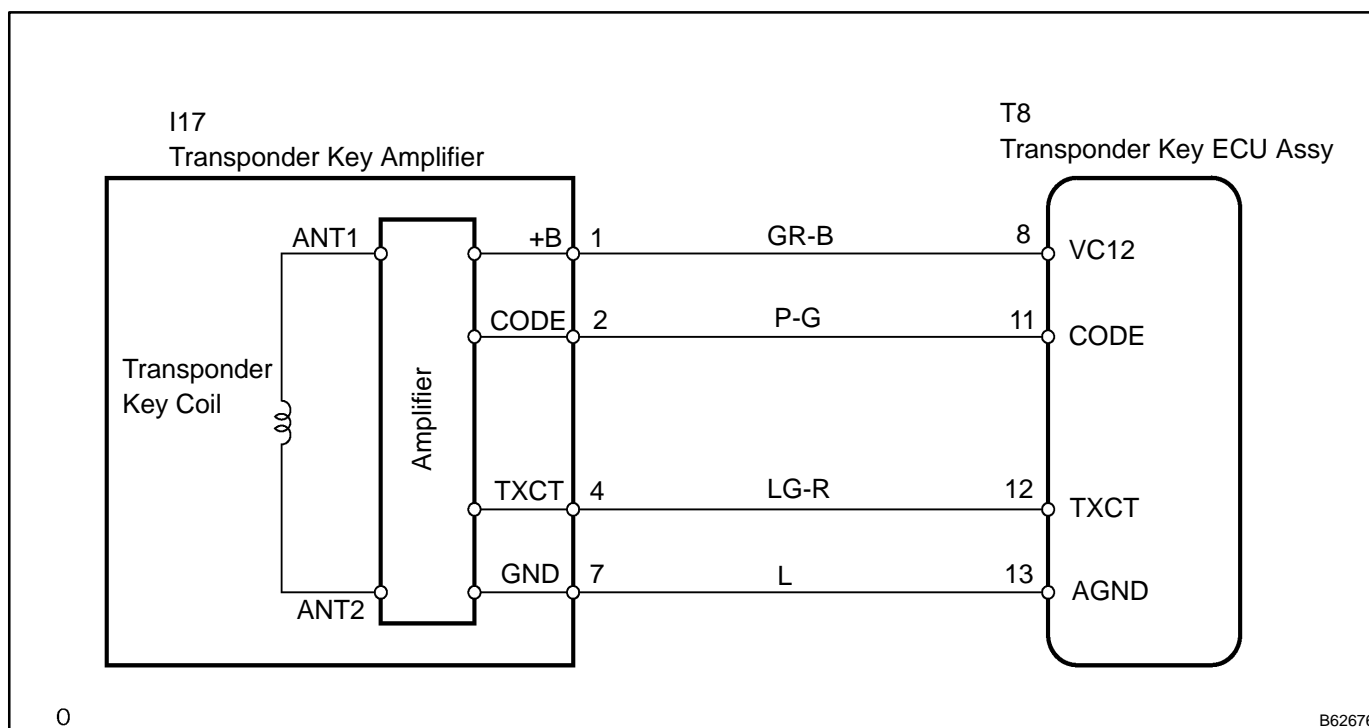
DTC	B2798	COMMUNICATION MALFUNCTION NO.2
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CIRCUIT DESCRIPTION

This code is stored in memory when inserting the key that does not have transponder chip or if the communication between the key and transponder key ECU is impossible.

DTC No.	DTC Detection Condition	Trouble Area
B2796	No communication	<ul style="list-style-type: none"> • Key • Transponder key amplifier (transponder key coil) • Wire harness • Transponder key ECU Assy
B2798	Communication error	<ul style="list-style-type: none"> • Key • Transponder key amplifier (transponder key coil) • Wire harness • Transponder key ECU Assy

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

Start the inspection from step 1 when using the hand-held tester and start from step 2 when not using the hand-held tester.

1	READ VALUE OF HAND-HELD TESTER (IMMOBILISER ECU (TRANSPONDER KEY ECU ASSY) (SWITCH CONDITION))
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- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON with the key with which the engine does not start.
- (c) Select the item "IMMOBILISER" on the hand-held tester.

OK:

SET → Without key

UNSET → Ignition switch ON

OK → **NORMAL**

NG

2	CHECK WHETHER ENGINE STARTS WITH OTHER KEYS
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- (a) Check whether the engine starts with the other keys for the vehicle.

OK → **RE-REGISTER OR REPLACE KEY WITH WHICH
ENGINE DOES NOT START**

NG

HINT:

Start the inspection from step 3 when using the hand-held tester and start from step 4 when not using the hand-held tester.

3	READ VALUE OF HAND-HELD TESTER (IMMOBILISER ECU (TRANSPONDER KEY ECU ASSY) (SWITCH CONDITION))
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- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON with the key with which the engine does not start.
- (c) Select the item "ANTENNA COIL" on the hand-held tester.

OK: NORMAL

NG: FAIL

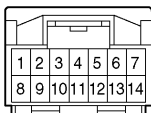
OK → **CHECK AND REPLACE TRANSPONDER
KEY ECU ASSY**

NG

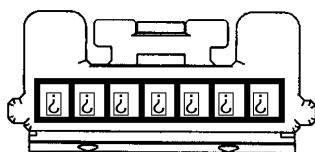
4 CHECK WIRE HARNESS (TRANSPONDER KEY ECU ASSY ⇔ TRANSPONDER KEY AMPLIFIER)

Wire Harness Side

T8
Transponder Key ECU Assy



I17
Transponder Key Amplifier



B63404
B55013

B64974

- (a) Disconnect the T8 ECU and I17 amplifier connectors.
- (b) Check the continuity between the wire harness side connectors.

Standard:

Symbols (Terminal No.)	Specified Condition
VC5 (T8-8) ⇔ VC5 (I17-1)	Continuity
CODE (T8-11) ⇔ CODE (I17-4)	Continuity
TXCT (T8-12) ⇔ TXCT (I17-5)	Continuity
AGND (T8-13) ⇔ GND (I17-7)	Continuity

- (c) Check the continuity between the T8 ECU or I17 amplifier wire harness side connector and body ground.

Standard:

Symbols (Terminal No.) (ECU or Amplifier ⇔ -)	Specified Condition
VC5 (T8-8) or VC5 (I17-1) ⇔ Body ground	No continuity
CODE (T8-11) or CODE (I17-4) ⇔ Body ground	No continuity
TXCT (T8-12) or TXCT (I17-5) ⇔ Body ground	No continuity
AGND (T8-13) or GND (I17-7) ⇔ Body ground	No continuity

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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

5 CHECK OPERATION OF TRANSPONDER KEY AMPLIFIER

- (a) After exchanging the transponder key ECU, check that the engine starts.

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**NORMAL
(TRANSPONDER KEY AMPLIFIER DEFECTIVE)**

OK

REPLACE TRANSPONDER KEY ECU ASSY