

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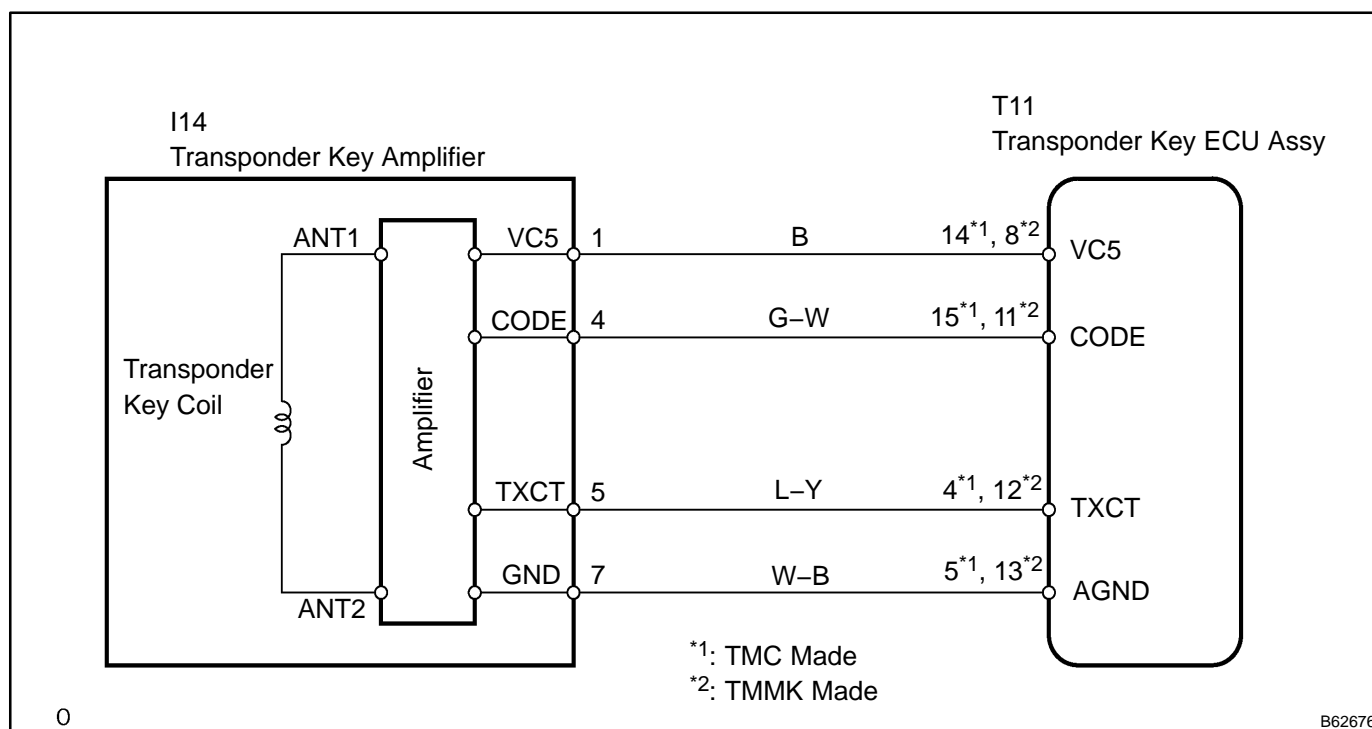
DTC	B2798	COMMUNICATION MALFUNCTION NO.2
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CIRCUIT DESCRIPTION

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

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

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 that will not start the engine.
- (c) Select the item "IMMOBILISER" on the hand-held tester.

OK:

SET → Ignition switch ON

UNSET → Without key

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 THAT WILL
NOT START ENGINE**

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 that will not start the engine.
- (c) Select the item "ANTENNA COIL" on the hand-held tester.

OK: NORMAL

NG: FAIL

NG

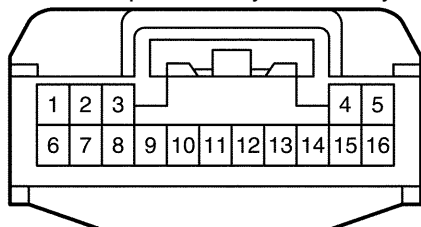
**CHECK AND REPLACE TRANSPONDER KEY
ECU ASSY**

OK

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

Wire Harness Side

T11 Transponder Key ECU Assy

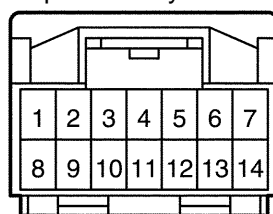


P

(TMC Made)

T11

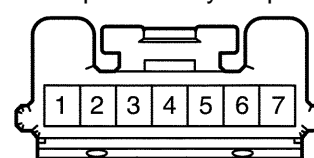
Transponder Key ECU Assy



(TMMK Made)

I14

Transponder Key Amplifier



cmc0384

- Disconnect the T11 ECU and I14 amplifier connector.
- Check the continuity between the wire harness side connectors.

Standard (TMC Made):

Symbols (Terminal No.)	Specified Condition
VC5 (T11-14) ⇔ VC5 (I14-1)	Continuity
CODE (T14-15) ⇔ CODE (I14-4)	Continuity
TXCT (T14-4) ⇔ TXCT (I14-5)	Continuity
AGND (T14-5) ⇔ GND (I14-7)	Continuity

Standard (TMMK Made):

Symbols (Terminal No.)	Specified Condition
VC5 (T11-8) ⇔ VC5 (I14-1)	Continuity
CODE (T14-11) ⇔ CODE (I14-4)	Continuity
TXCT (T14-12) ⇔ TXCT (I14-5)	Continuity
AGND (T14-13) ⇔ GND (I14-7)	Continuity

- Check the continuity between the T11 or I14 wire harness side connector and the body ground.

Standard (TMC Made):

Symbols (Terminal No.)	Specified Condition
VC5 (T11-14) or VC5 (I14-1) ⇔ Body ground	No continuity
CODE (T14-15) or CODE (I14-4) ⇔ Body ground	No continuity
TXCT (T14-4) or TXCT (I14-5) ⇔ Body ground	No continuity
AGND (T14-5) or GND (I14-7) ⇔ Body ground	No continuity

Standard (TMMK Made):

Symbols (Terminal No.)	Specified Condition
VC5 (T11-8) or VC5 (I14-1) ⇔ Body ground	No continuity
CODE (T14-11) or CODE (I14-4) ⇔ Body ground	No continuity
TXCT (T14-12) or TXCT (I14-5) ⇔ Body ground	No continuity
AGND (T14-13) or GND (I14-7) ⇔ Body ground	No continuity

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

5 CHECK OPERATION OF TRANSPONDER KEY AMPLIFIER

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

NG**NORMAL
(TRANSPONDER KEY AMPLIFIER DEFECTIVE)****OK****REPLACE TRANSPONDER KEY ECU ASSY**