

DTC**B2795****Unmatched Key Code****DESCRIPTION**

This DTC is output when a key with a key code that has not been registered in the ECU is inserted into the ignition key cylinder.

DTC No.	DTC Detection Condition	Trouble Area
B2795	Key with unregistered key code is inserted	Key

1**RE-REGISTER KEY**

- (a) Delete the DTC (see page [EI-19](#)).
- (b) Reregister the key, and check that the engine starts with the key (see page [EI-6](#)).

OK:**Engine starts.****NG****REPLACE KEY****OK****NORMAL (INSPECTION FINISHED)**

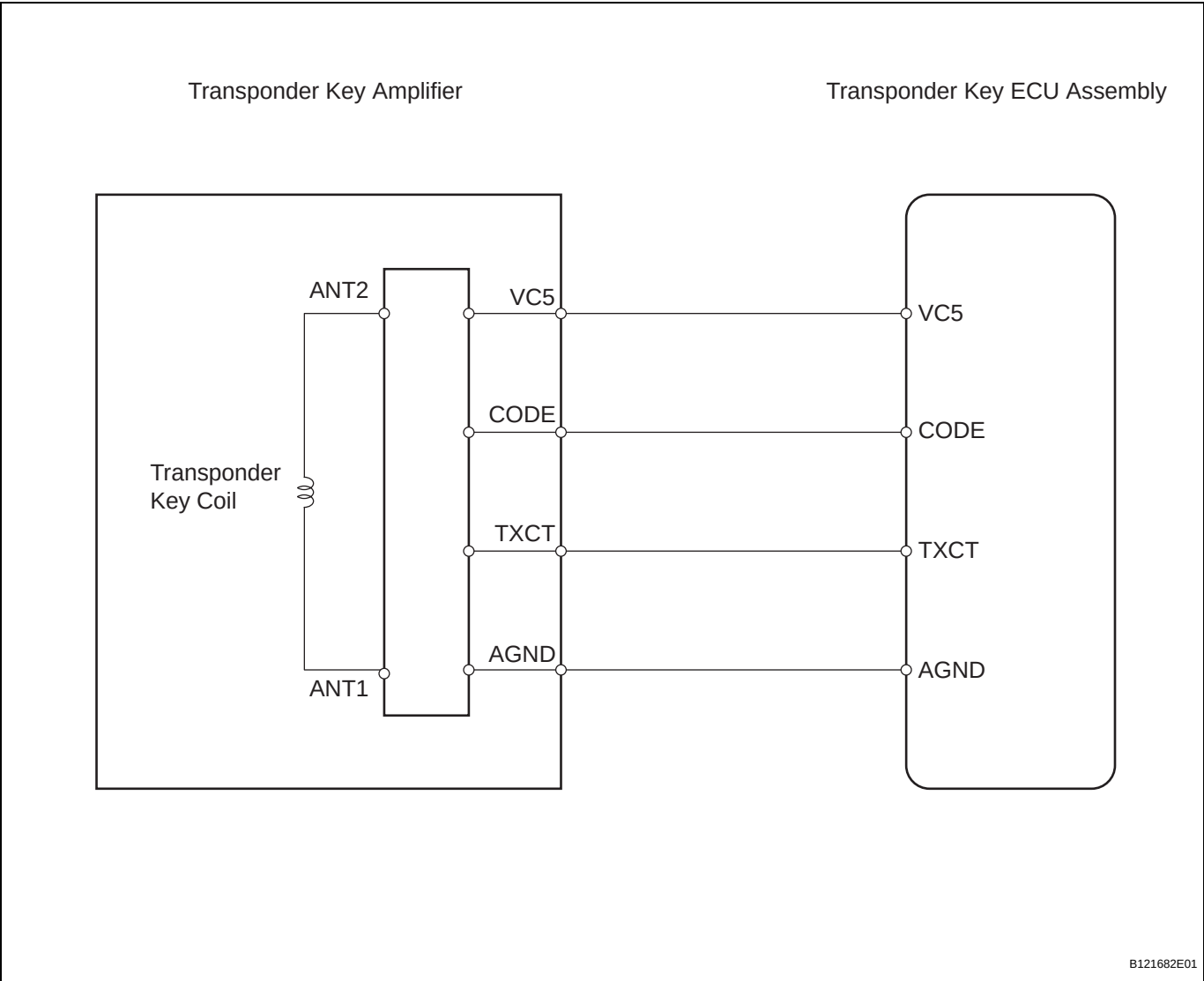
DTC	B2796	No Communication in Immobiliser System
DTC	B2798	Communication Malfunction No. 2

DESCRIPTION

When a key is inserted into the ignition key cylinder but no communication occurs between the key and transponder key ECU assembly, DTC B2796 is output. When a key is inserted into the ignition key cylinder but a communication error occurs between the key and transponder key ECU assembly, DTC B2798 is output.

DTC No.	DTC Detection Conditions	Trouble Areas
B2796	No communication	• Key • Wire harness and connector • Transponder key amplifier • Transponder key ECU assembly
B2798	Communication error	Key

WIRING DIAGRAM



1 READ VALUE OF INTELLIGENT TESTER (ENGINE IMMOBILISER SYSTEM)

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch ON with the key that cannot start the engine.
- (c) On the intelligent tester enter the following menus:
DIAGNOSIS / ENHANCED OBD II / DATA LIST /
IMMOBILISER / IMMOBILISER. Read the values.

Transponder key ECU assembly

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
IMMOBILISER	Immobiliser system status / SET or UNSET	UNSET: Ignition switch ON SET: Without key	-

OK:**"UNSET" (ignition switch ON) appears on the screen.****OK****REPLACE TRANSPONDER KEY ECU ASSEMBLY****NG****2 CHECK WHETHER ENGINE STARTS WITH OTHER KEYS**

- (a) Check whether the engine starts with the vehicle's other keys.

OK:**Engine starts.****OK****RE- REGISTER OR REPLACE KEY THAT CANNOT START ENGINE****NG****3 READ VALUE OF INTELLIGENT TESTER**

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch ON with the key that will not start the engine.
- (c) On the intelligent tester, enter the following menus:
DIAGNOSIS / ENHANCED OBD II / DATA LIST /
IMMOBILISER / ANTENNA COIL. Read the values.

E**Transponder key ECU assembly**

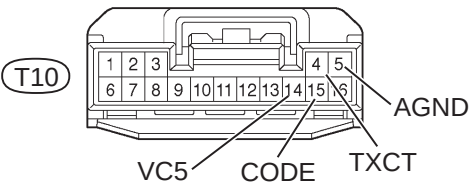
Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
ANTENNA COIL	Transponder key coil condition / NORMAL or FAIL	NORMAL: Transponder key coil is normal FAIL: Transponder key coil is malfunctioning	-

OK:**NORMAL (transponder key coil is normal) appears on screen.****OK****REPLACE TRANSPONDER KEY AMPLIFIER****NG**

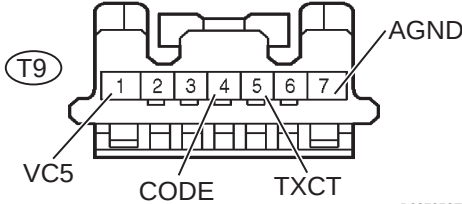
4 CHECK HARNESS AND CONNECTOR (TRANSPONDER KEY ECU ASSEMBLY - TRANSPONDER KEY AMPLIFIER)

Wire Harness Side:

Transponder Key ECU Assembly



Transponder Key Amplifier



B087953E03

- (a) Disconnect the T10 ECU connector.
- (b) Disconnect the T9 amplifier connector.
- (c) Measure the resistance of the wire harness side connectors.

Standard resistance

Tester Connection	Specified Condition
T10-14 (VC5) - T9-1 (VC5)	Below 1Ω
T10-15 (CODE) - T9-4 (CODE)	Below 1Ω
T10-4 (TXCT) - T9-5 (TXCT)	Below 1Ω
T10-5 (AGND) - T9-7 (AGND)	Below 1Ω
T10-14 (VC5) or T9-1 (VC5) - Body ground	10 kΩ or higher
T10-15 (CODE) or T9-4 (CODE) - Body ground	10 kΩ or higher
T10-4 (TXCT) or T9-5 (TXCT) - Body ground	10 kΩ or higher
T10-5 (AGND) or T9-7 (AGND) - Body gorund	10 kΩ or higher

- (d) Reconnect the ECU connector.
- (e) Reconnect the amplifier connector.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

5 REPLACE TRANSPONDER KEY AMPLIFIER (OPERATION)

- (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 ASSEMBLY

OK

NORMAL (TRANSPONDER KEY AMPLIFIER DEFECTIVE)

EI