

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)**

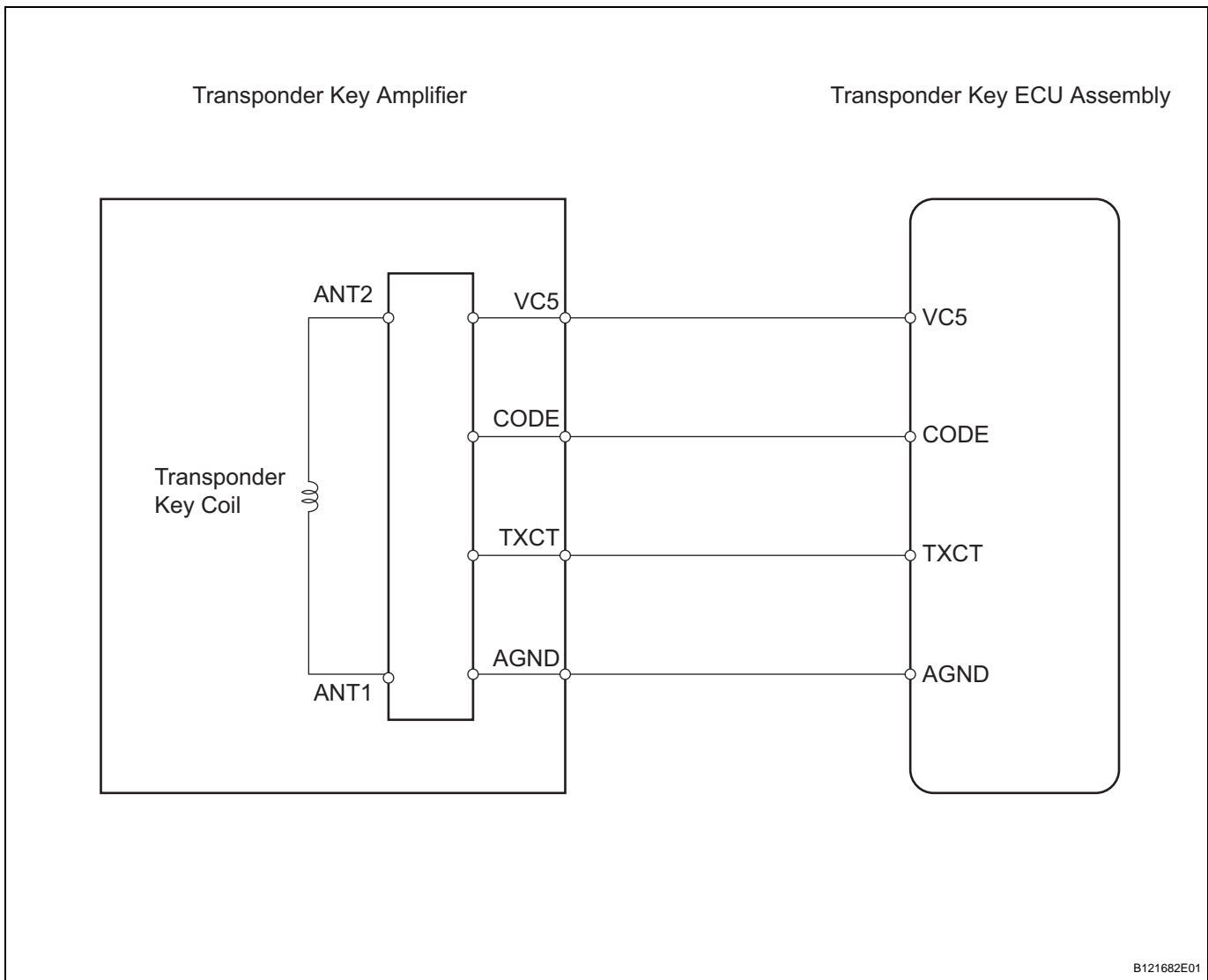
| | | |
|------------|--------------|---|
| DTC | B2796 | No Communication in Immobiliser System |
| DTC | B2798 | Communication Malfunction No. 2 |

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 | <ul style="list-style-type: none"> • 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**

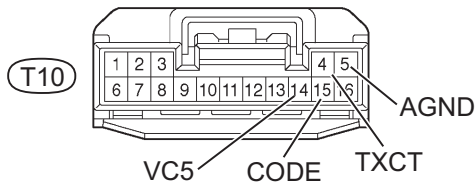
| Item | Measurement Item / Display (Range) | Normal Condition | Diagnostic Note |
|--------------|---|--|-----------------|
| ANTENNA COIL | Transponder key coil condition / NORMAL or FAIL | NORMAL: Transponder key coil is normal FAIL: Transponder key coil is malfunctioning | - |

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

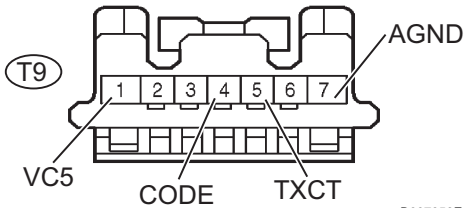
4 CHECK HARNESS AND CONNECTOR (TRANSPONDER KEY ECU ASSEMBLY - TRANSPONDER KEY AMPLIFIER)

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 ground | 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)