

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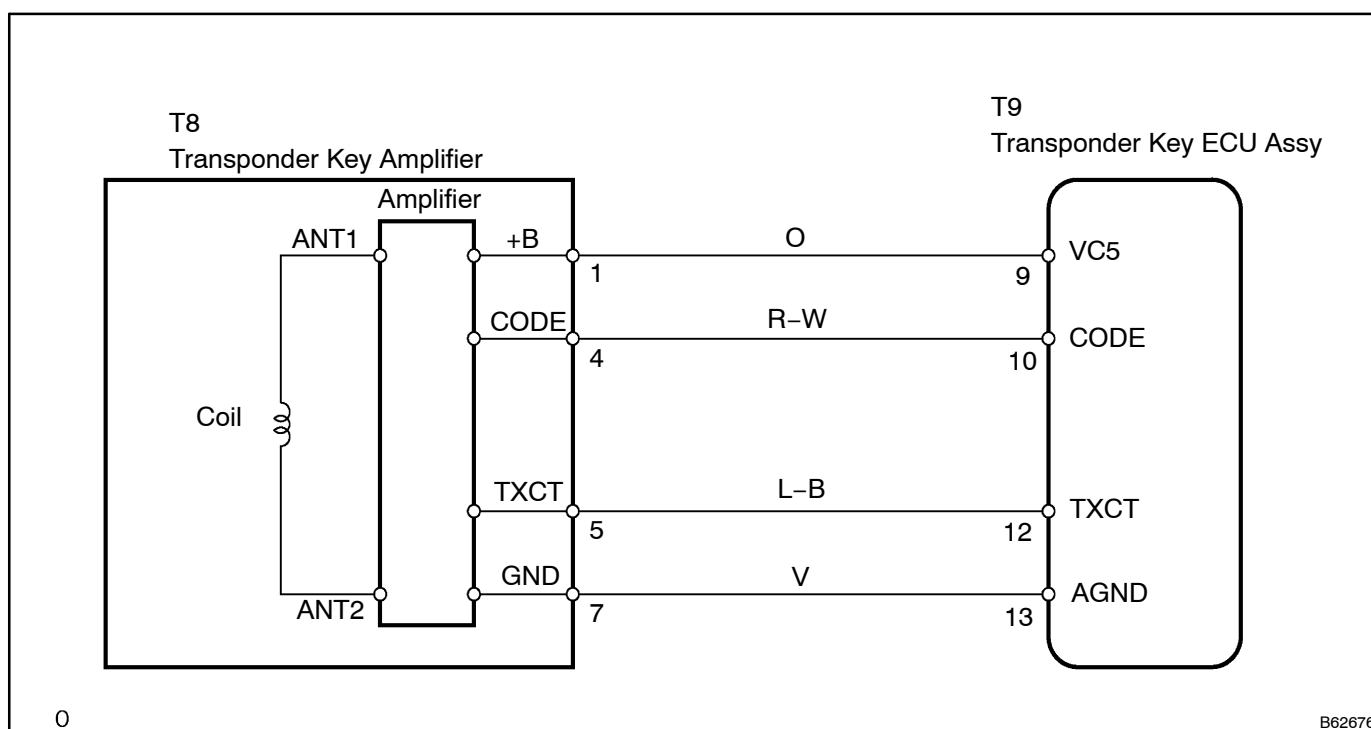
DTC	B2798	COMMUNICATION MALFUNCTION NO.2
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CIRCUIT DESCRIPTION

This DTC is output when a key that does not have a transponder chip is inserted into the ignition key cylinder or if communication between the key and transponder key ECU is not possible.

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

WIRING DIAGRAM



INSPECTION PROCEDURE**1 READ VALUE OF INTELLIGENT TESTER II**

- (a) Connect the intelligent tester II to the DLC3.
- (b) Turn the ignition switch ON with the key that cannot start the engine.
- (c) Read the DATA LIST according to the display on the intelligent tester II.

OK: "SET" (Ignition switch ON) appears on the screen.

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

NG**Go to step 2****OK****REPLACE TRANSPONDER KEY ECU ASSY****2 CHECK WHETHER ENGINE STARTS WITH OTHER KEYS**

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

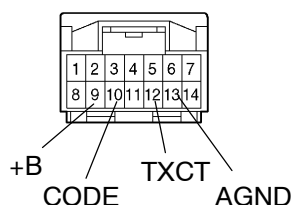
OK: Engine starts.

NG**Go to step 3****OK****RE-REGISTER OR REPLACE KEY THAT CANNOT START ENGINE**

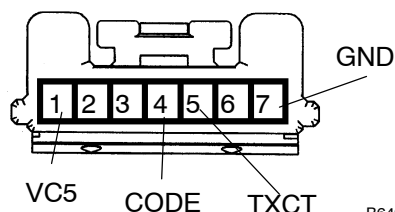
3 CHECK WIRE HARNESS (TRANSPONDER KEY ECU ASSY – TRANSPONDER KEY AMPLIFIER) (TRANSPONDER KEY ECU ASSY OR TRANSPONDER KEY AMPLIFIER – BODY GROUND)

Wire Harness Side

T9
Transponder Key ECU Assy



T8
Transponder Key Amplifier



B63404
B55013

B64974

- (a) Disconnect the T9 ECU and T8 amplifier connectors.
- (b) Measure the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
T9-9 (+B) – T8-1 (VC5)	Below 1 Ω
T9-10 (CODE) – T8-4 (CODE)	Below 1 Ω
T9-12 (TXCT) – T8-5 (TXCT)	Below 1 Ω
T9-13 (AGND) – T8-7 (GND)	Below 1 Ω
T9-9 (+B) or T8-1 (VC5) – Body ground	10 k Ω or higher
T9-10 (CODE) or T8-4 (CODE) – Body ground	10 k Ω or higher
T9-12 (TXCT) or T8-5 (TXCT) – Body ground	10 k Ω or higher
T9-13 (AGND) or T8-7 (GND) – Body ground	10 k Ω or higher

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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

4 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 TRANSPONDER KEY ECU ASSY

OK

END