

DTC	B2796	NO COMMUNICATION IN IMMOBILISER SYSTEM
-----	-------	--

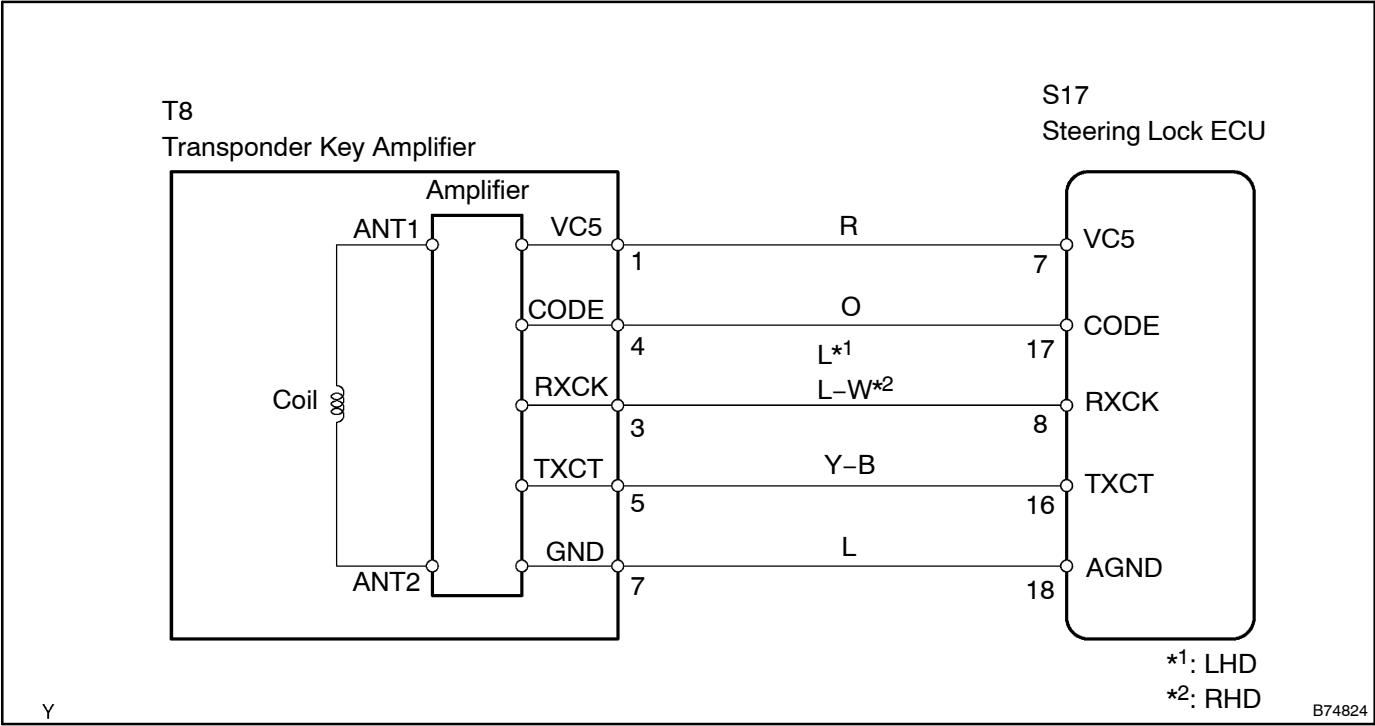
DTC	B2798	COMMUNICATION MALFUNCTION NO.2
-----	-------	--------------------------------

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 steering lock ECU is not possible.

DTC No.	DTC Detection Condition	Trouble Area
B2796	No communication	• Smart key • Wire harness • Transponder key amplifier • Steering lock ECU
B2798	Communication error	Smart 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 STEERING LOCK ECU

2 CHECK WHETHER ENGINE STARTS WITH OTHER KEYS

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

OK: Engine starts.

NG

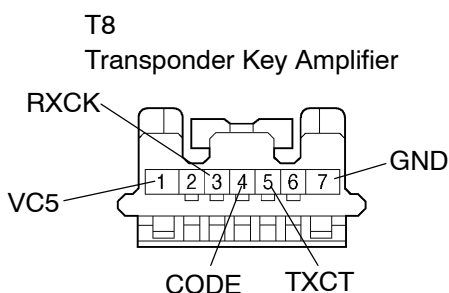
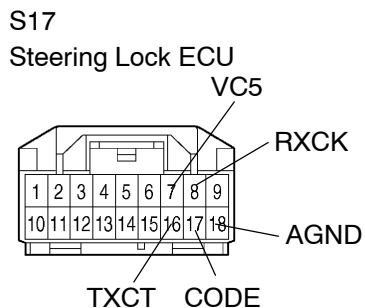
Go to step 3

OK

RE-REGISTER OR REPLACE KEY THAT CANNOT START ENGINE

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

Wire Harness Side



Y

B74825

- Disconnect the S17 ECU and T8 amplifier connectors.
- Measure the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
S17-7 (VC5) – T8-1 (VC5)	Below 1 Ω
S17-17 (CODE) – T8-4 (CODE)	Below 1 Ω
S17-8 (RXCK) – T8-3 (RXCK)	Below 1 Ω
S17-16 (TXCT) – T8-5 (TXCT)	Below 1 Ω
S17-7 (VC5) or T8-1 (VC5) – Body ground	10 k Ω or higher
S17-17 (CODE) or T8-4 (CODE) – Body ground	10 k Ω or higher
S17-8 (RXCK) or T8-3 (RXCK) – Body ground	10 k Ω or higher
S17-16 (TXCT) or T8-5 (TXCT) – Body ground	10 k Ω or higher
S17-18 (AGND) or T8-7 (GND) – Body ground	10 k Ω or higher

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

4 REPLACE TRANSPONDER KEY AMPLIFIER

- After replacing the transponder key amplifier with a normally functioning amplifier, check that the engine starts.

OK: Engine starts.

NG

REPLACE STEERING LOCK ECU

OK

END