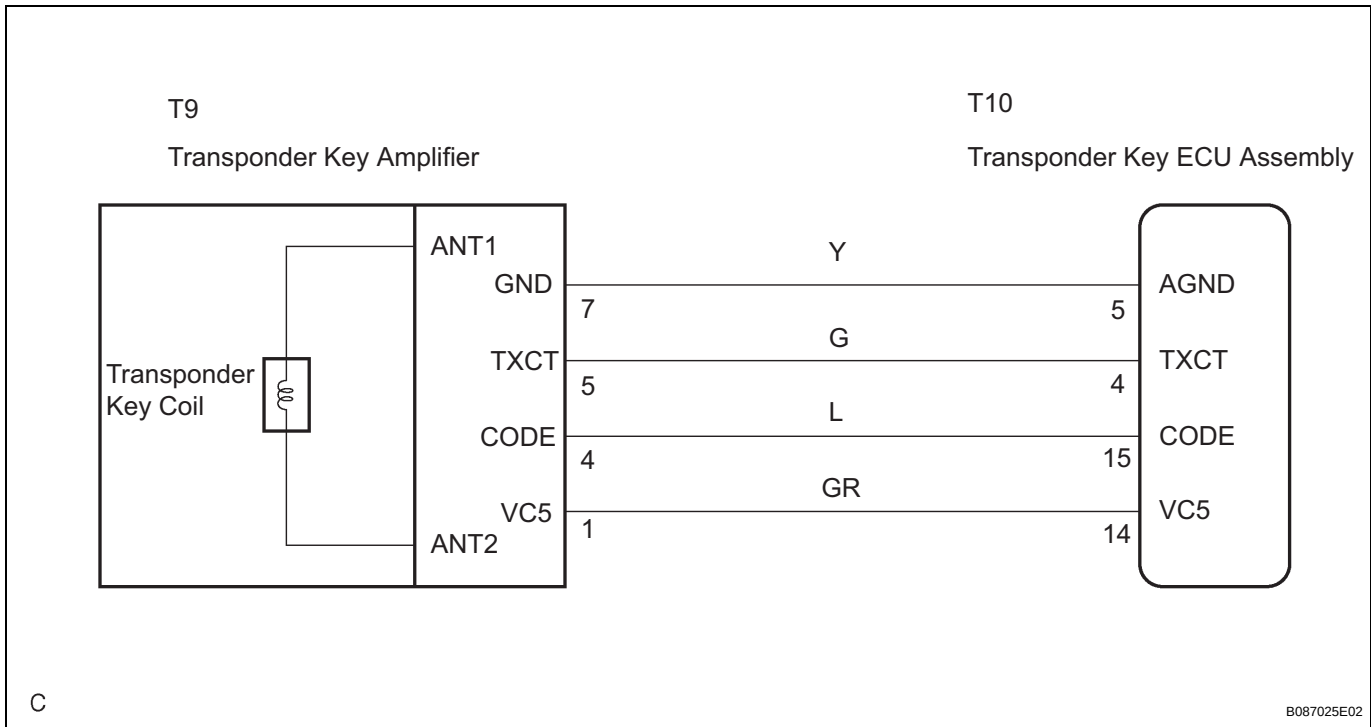


DTC**B2784****Antenna Coil Open / Short****DESCRIPTION**

The transponder key coil is built into the transponder key amplifier and receives a key code signal from the transponder chip in the key. This signal is amplified by the amplifier, then it is output to the transponder key ECU assembly.

DTC No.	DTC Detection Condition	Trouble Area
B2784	Antenna coil is open/short	- Wire harness - Transponder key amplifier - Transponder key ECU assembly

EI**WIRING DIAGRAM****INSPECTION PROCEDURE****1****READ VALUE OF INTELLIGENT TESTER**

- Connect the intelligent tester to the DLC3.
- Turn the ignition switch ON with a key that does not start the engine.
- Select the item "ANTENNA COIL" on the intelligent tester.

Transponder key ECU:

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

OK:

"NORMAL" (Antenna coil is normal) appears on the screen.

OK

REPLACE TRANSPONDER KEY ECU ASSEMBLY

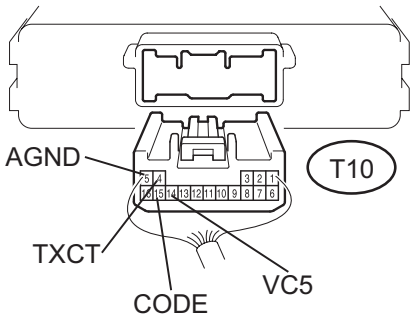
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CHECK HARNESS AND CONNECTOR (TRANSPONDER KEY ECU - TRANSPONDER KEY AMPLIFIER)

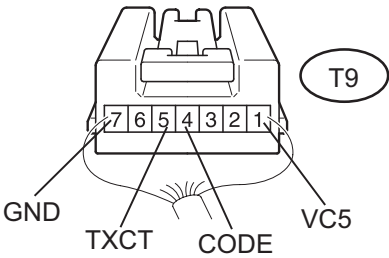
Transponder Key ECU Assembly:

Wire Harness Rear View:



Transponder Key Amplifier:

Wire Harness Rear View:



P

B124193E04

- (a) Disconnect the T10 ECU and T9 amplifier connectors.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

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

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE TRANSPONDER KEY AMPLIFIER

EI