

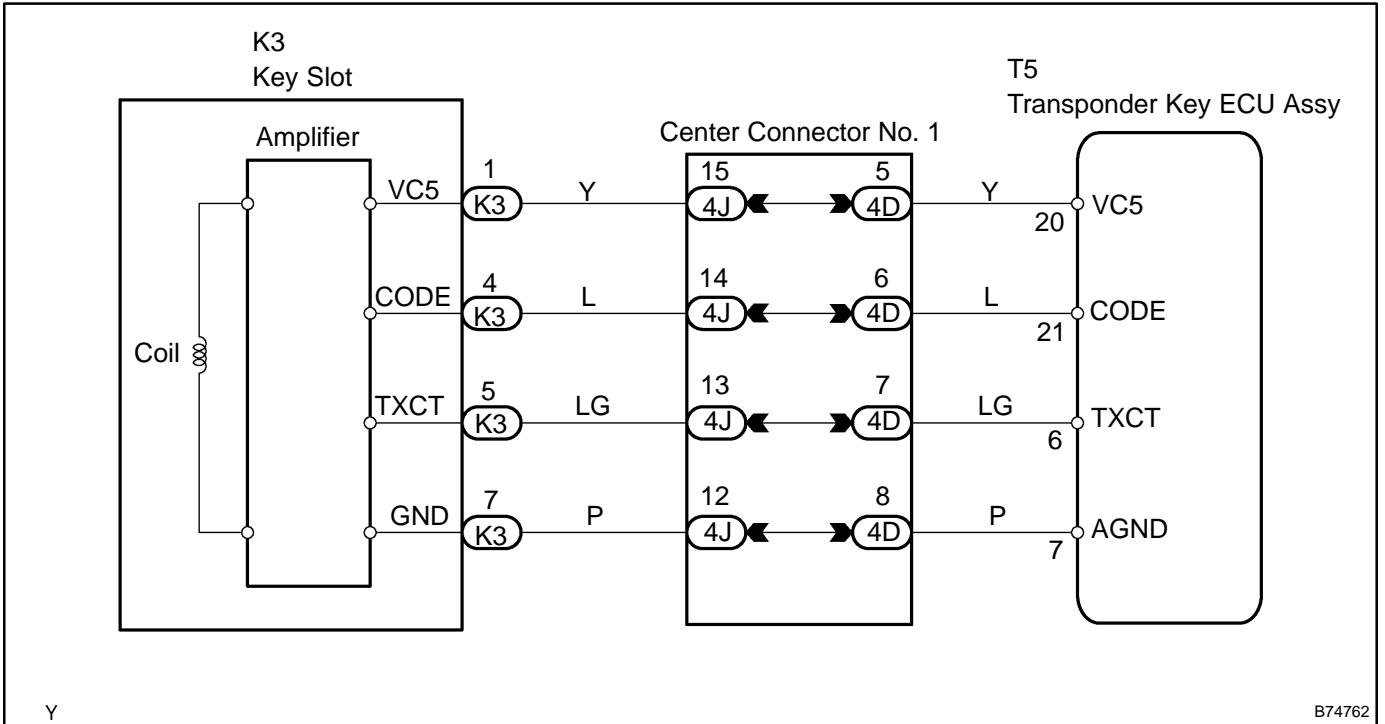
DTC	B2784	ANTENNA COIL OPEN/SHORT
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CIRCUIT DESCRIPTION

This DTC detected when an antenna coil is open/short.

DTC No.	DTC Detection Condition	Trouble Area
B2784	Antenna coil is open/short	<ul style="list-style-type: none"> • Wire harness • Key slot • Transponder key ECU Assy

WIRING DIAGRAM



Y

B74762

INSPECTION PROCEDURE

1 READ VALUE OF HAND-HELD TESTER

- (a) Connect the hand-held tester (with CAN VIM) to the DLC3.
- (b) Insert the key that cannot start the hybrid control system into the key slot, and change the power switch's power mode to ON (IG) by pushing the power switch.
- (c) Read the DATA LIST according to the display on the tester.

OK: "NORMAL" (antenna coil is normal) appears on the screen.

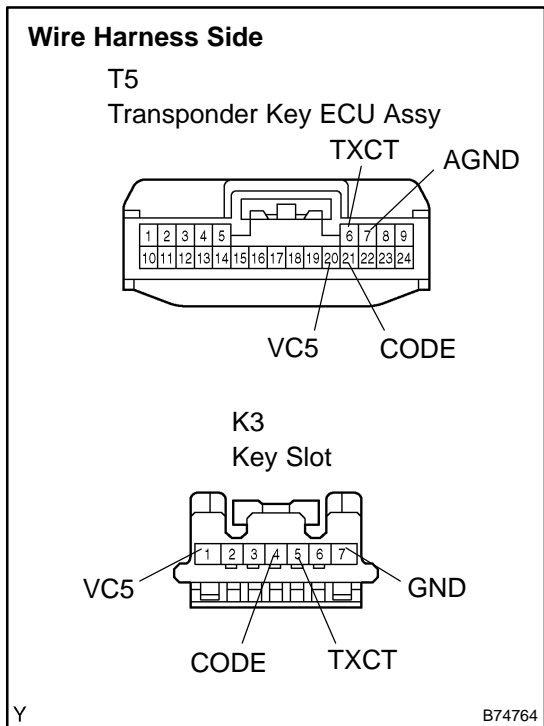
Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
ANTENNA COIL	Antenna coil condition /NORMAL or FAIL	NORMAL: Antenna coil is normal FAIL: Antenna coil is abnormal	-

NG → Go to step 2

OK

REPLACE TRANSPONDER KEY ECU ASSY

2 CHECK WIRE HARNESS (TRANSPONDER KEY ECU ASSY – KEY SLOT) (TRANSPONDER KEY ECU ASSY OR KEY SLOT – BODY GROUND)



- (a) Disconnect the T5 ECU connector.
- (b) Disconnect the K3 key slot connector.
- (c) Measure the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
T5-20 (VC5) – K3-1 (VC5)	Below 1 Ω
T5-21 (CODE) – K3-4 (CODE)	Below 1 Ω
T5-6 (TXCT) – K3-5 (TXCT)	Below 1 Ω
T5-7 (AGND) – K3-7 (GND)	Below 1 Ω
T5-20 (VC5) or K3-1 (VC5) – Body ground	10 kΩ or higher
T5-21 (CODE) or K3-4 (CODE) – Body ground	10 kΩ or higher
T5-6 (TXCT) or K3-5 (TXCT) – Body ground	10 kΩ or higher
T5-7 (AGND) or K3-7 (GND) – Body ground	10 kΩ or higher

NG → REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE TRANSPONDER KEY ECU ASSY