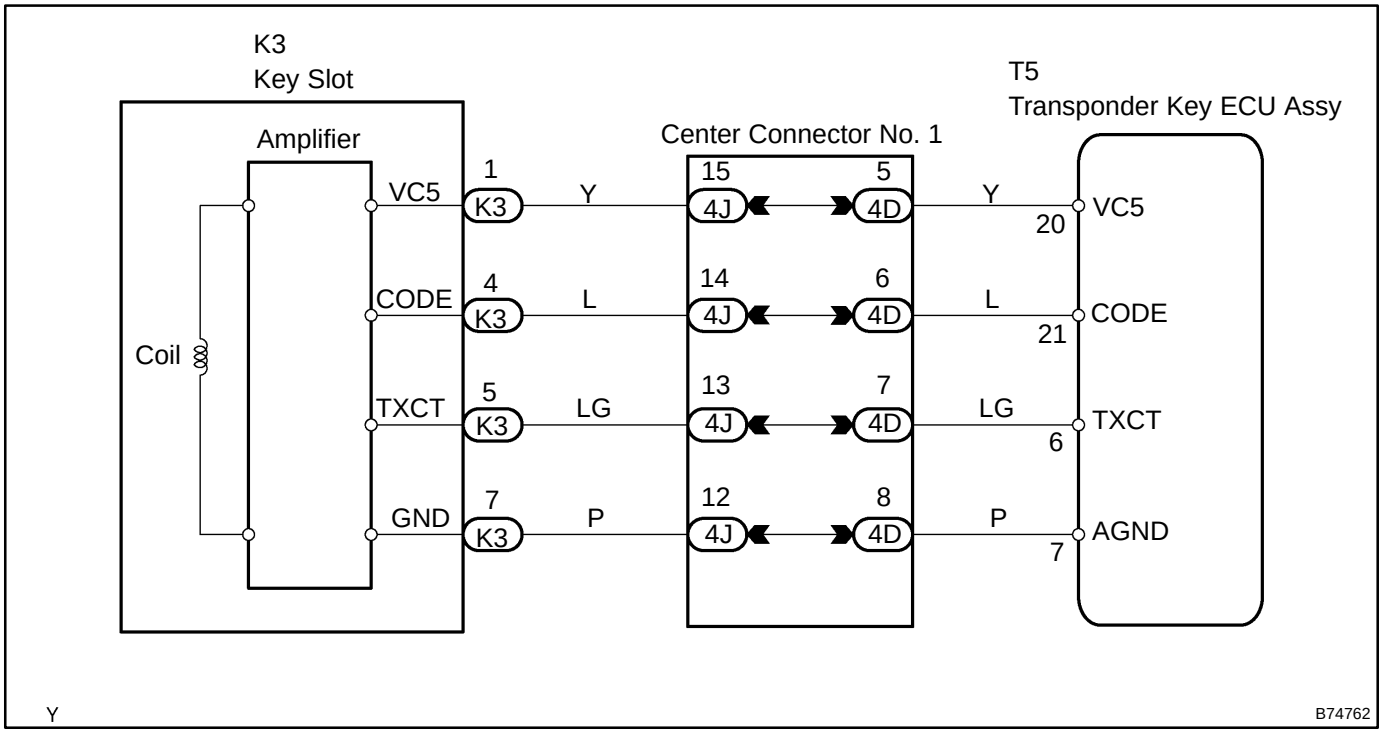
DTC B2784 ANTENNA COIL OPEN/SHORT

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	• Wire harness • Key slot • Transponder key ECU assy

WIRING DIAGRAM



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.

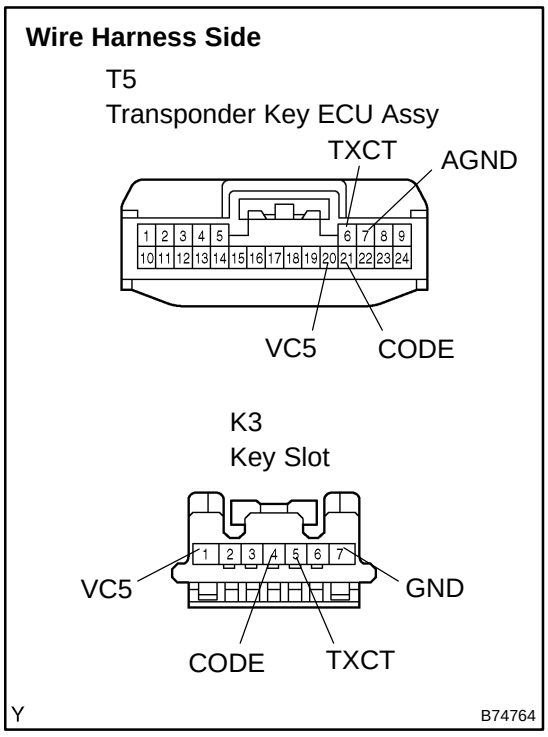
Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
ANTENNA COIL	Antenna coil condition /NORMAL or FAIL	NORMAL: Antenna coil is normal FAIL: Antenna coil is abnormal	–

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