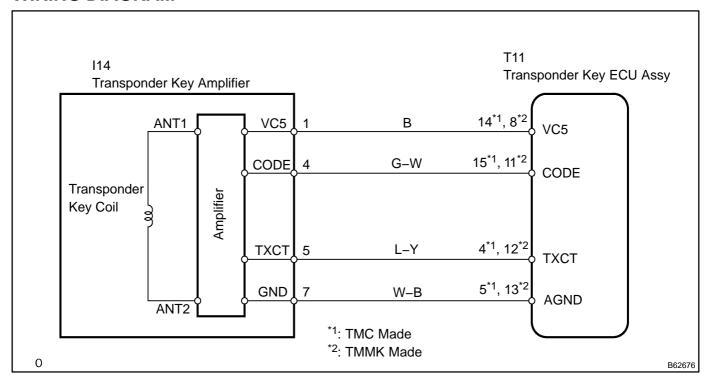
DTC B2784 ANTENNA COIL OPEN/SHORT

CIRCUIT 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 assy.

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

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT

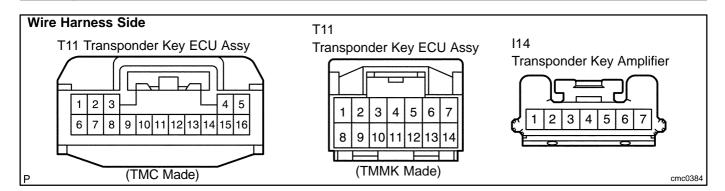
Start the inspection from step 1 when using the hand-held tester and start from step 2 when not using the hand-held tester.

- 1 READ VALUE OF HAND-HELD TESTER (IMMOBILISER ECU (TRANSPONDER KEY ECU ASSY) (SWITCH CONDITION))
- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON with the key that will not start the engine.
- (c) Select the item "ANTENNA COIL" on the hand-held tester.

OK: NORMAL NG: FAIL



2 CHECK WIRE HARNESS (TRANSPONDER KEY ECU ASSY ⇔ TRANSPONDER KEY AMPLIFIER) (TRANSPONDER KEY ECU ASSY OR TRANSPONDER KEY AMPLIFIER ⇔ BODY GROUND)



- (a) Disconnect the T11 ECU and I14 amplifier connector.
- (b) Check the continuity between the wire harness side connectors.

Standard (TMC Made):

Symbols (Terminal No.)	Specified Condition
VC5 (T11–14) ⇔ VC5 (I14–1)	Continuity
CODE (T14–15) ⇔ CODE (I14–4)	Continuity
TXCT (T14–4) ⇔ TXCT (I14–5)	Continuity
AGND (T14–5) ⇔ GND (I14–7)	Continuity

Standard (TMMK Made):

Symbols (Terminal No.)	Specified Condition
VC5 (T11−8) ⇔ VC5 (I14−1)	Continuity
CODE (T14–11) ⇔ CODE (I14–4)	Continuity
TXCT (T14–12) ⇔ TXCT (I14–5)	Continuity
AGND (T14–13) ⇔ GND (I14–7)	Continuity

(c) Check the continuity between the T11 or I14 wire harness side connector and the body ground. **Standard (TMC Made):**

Symbols (Terminal No.)	Specified Condition
VC5 (T11–14) or VC5 (I14–1) ⇔ Body ground	No continuity
CODE (T14–15) or CODE (I14–4) ⇔ Body ground	No continuity
TXCT (T14–4) or TXCT (I14–5) ⇔ Body ground	No continuity
AGND (T14–5) or GND (I14–7) ⇔ Body ground	No continuity

Standard (TMMK Made):

Symbols (Terminal No.)	Specified Condition
VC5 (T11–8) or VC5 (I14–1) ⇔ Body ground	No continuity
CODE (T14–11) or CODE (I14–4) ⇔ Body ground	No continuity
TXCT (T14–12) or TXCT (I14–5) ⇔ Body ground	No continuity
AGND (T14–13) or GND (I14–7) ⇔ Body ground	No continuity

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

ок

REPLACE TRANSPONDER KEY AMPLIFIER