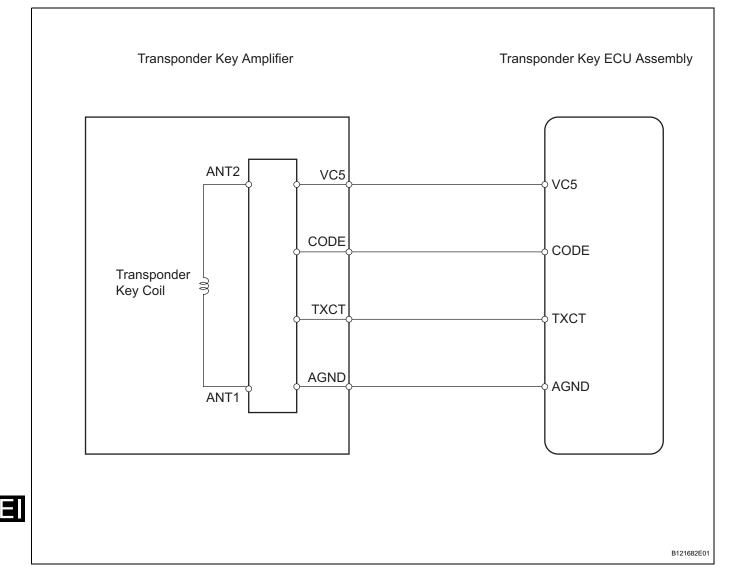
DTC	B2784	Antenna Coil Open / Short
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DESCRIPTION

The transponder key coil receives key code signals from key's transponder chip. The coil is built into the transponder key amplifier, which amplifies the key code signals and output the signals to the transponder key ECU.

DTC No.	DTC Detection Condition	Trouble Area	
B2784	Open or short in antenna coil circuit	 Wire harness and connector Transponder key amplifier Transponder key ECU assembly 	

WIRING DIAGRAM



1 READ VALUE OF INTELLIGENT TESTER (TRANSPONDER KEY COIL)

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch ON with the key that cannot start the engine.

(c) On the intelligent tester, enter the following menus: DIAGNOSIS/ENHANCED OBD II/DATA LIST/ IMMOBILISER/ ANTENNA COIL. Read the values.

Transponder key ECU assembly

ltem	Measurement Item / Display (Rang	e)	Normal Condition	Diagnostic Note
ANTENNA COIL Transponder key coil condition NORMAL or FAIL			AL: Transponder key coil is normal ransponder key coil is malfunctioning	-
		OK: "NORM on the s	AL" (Transponder key coil is screen.	normal) appears
		ок	REPLACE TRANSPONDER ASSEMBLY	R KEY ECU
NG				
	K HARNESS AND CONNEC SPONDER KEY AMPLIFIER	•	ANSPONDER KEY ECU ASS	EMBLY -
Vire Harness S		 (a) Disconnect the T10 ECU connector. (b) Disconnect the T9 amplifier connector. (c) Measure the resistance of the wire harness side connectors. 		
Transpon	der Key ECU Assembly		dard resistance	
		Tester Connection		Specified Condition
É.		T10-14 (VC5) - T9-1 (VC5)		Below 1 Ω
T10 1 2 3 6 7 8 9 1011 12131415 AGND VC5 CODE TXCT		T10-15 (CODE) - T9-4 (CODE)		Below 1 Ω
		T10-4 (TXCT) - T9-5 (TXCT)		Below 1 Ω
		T10-5 (AGND) - T9-7 (AGND)		Below 1 Ω
		T10-14 (VC5) or T9-1 (VC5) - Body ground		10 k Ω or higher
		T10-15 (CODE) or T9-4 (CODE) - Body ground		10 k Ω or higher
Transuponder Key Amplifier		T10-4 (TXCT) or T9-5 (TXCT) - Body ground		10 k Ω or higher
		(d) Reco	ND) or T9-7 (AGND) - Body ground nnect the ECU connector. nnect the amplifier connector.	10 kΩ or higher
VC5 CODE TXCT		NG REPAIR OR REPLACE HARNESS OR CONNECTOR		RNESS OR
ОК				

REPLACE TRANSPONDER KEY AMPLIFIER

EI