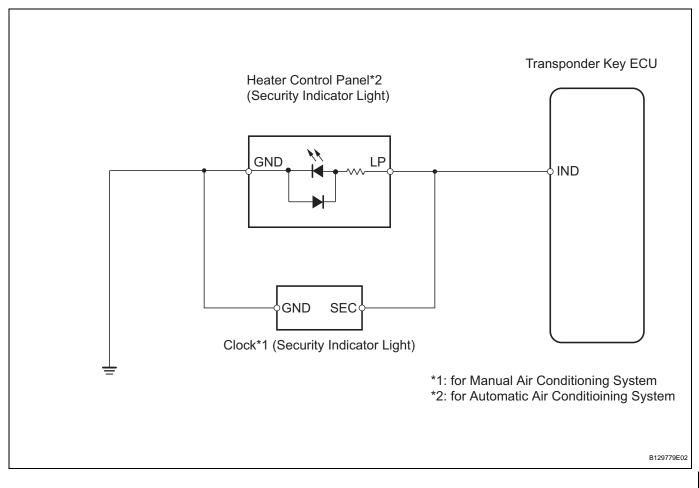
Security Indicator Light Circuit

DESCRIPTION

When the transponder key is registered, the transponder key ECU indicates the key registration condition by lighting up, blinking or turning off the security indicator.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 PERFORM ACTIVE TEST BY INTELLIGENT TESTER (SECURITY INDICATOR LIGHT)

(a) Select the ACTIVE TEST, use the intelligent tester (with CAN VIM) to generate a command, and then check that the security indicator light operation is normal.

Transponder key ECU:

Item	Normal Condition	Diagnostic Note
SECURITY INDIC	Security indicator light turns ON / OFF	-



OK

Security indicator light turns ON / OFF.

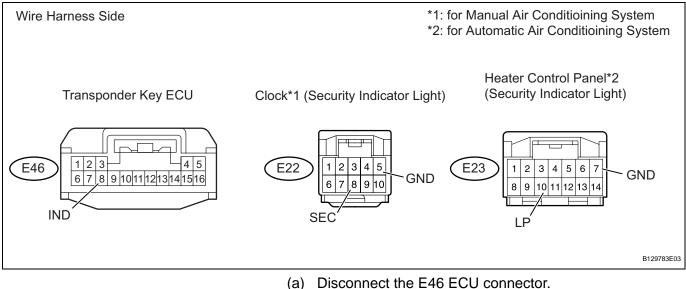
Go to step 3

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2 CHECK WIRE HARNESS (TRANSPONDER KEY ECU - SECURITY INDICATOR LIGHT)



- (b) Disconnect the E22*1 or E23*2 light connector.
- (c) Measure the resistance of the wire harness side connectors.

HINT:

- *1: for Manual air conditioning system
- *2: for Automatic air conditioning system

Standard resistance:

for Manual Air Conditioning System

Tester Connection	Specified Condition	
E46-8 (IND) - E22-8 (SEC)	Below 1 Ω	
E22-5 (GND) - Body ground		
E46-8 (IND) or E22-8 (SEC) - Body ground	10 k Ω or higher	

for Automatic Air Conditioning System

Tester Connection	Specified Condition	
E46-8 (IND) - E23-10 (LP)	Below 1 Ω	
E23-7 (GND) - Body ground		
E46-8 (IND) or E23-10 (LP) - Body ground	10 k Ω or higher	

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REPAIR OR REPLACE HARNESS AND CONNECTOR

3	INSPECT TRANSPONDER KEY ECU (OUTPUT)				
		 (a) Remove the transponder key ECU with its connectors still connected. (b) Measure the voltage of the ECU. Standard voltage 			
		Tester Condition	Condition	Specified Condition	
		E46-8 (IND) - Body ground	Engine immobiliser system is set	10 to 14 V and below 1 V output alternately	
	BOB7039E04	NG REPLACE TRANSPONDER KEY ECU			
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REPLACE CLOCK SUB-ASSEMBLY (for MANUAL AIR CONDITIONING SYSTEM), HEATER CONTROL PANEL (for AUTOMATIC AIR CONDITIONING SYSTEM)

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