DTC	B1451/51	Compressor Solenoid Circuit (2006/01-)

DESCRIPTION

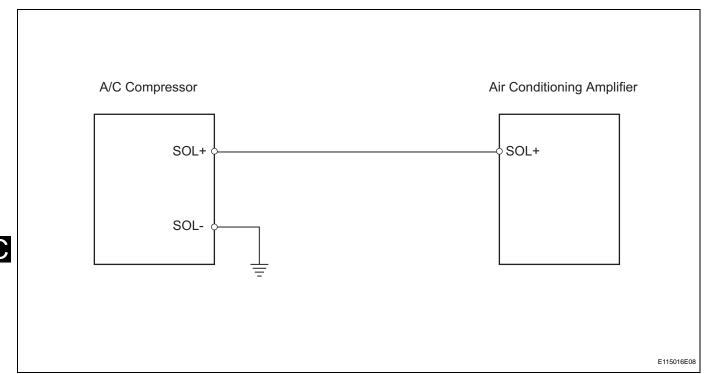
In this circuit, the compressor receives a refrigerant compression demand signal from the air conditioning amplifier. Based on this signal, the compressor changes the degree of refrigerant compression.

DTC No.	DTC Detection Condition	Trouble Area
B1451/51	Open or short in solenoid of externally changeable compressor circuit	 A/C compressor* Wire harness between air conditioning amplifier and A/C compressor* Air conditioning amplifier

HINT:

*: Compressor and pulley for 2AZ-FE, compressor and magnetic clutch for 2GR-FE

WIRING DIAGRAM



INSPECTION PROCEDURE

1	READ VALUE OF INTELLIGENT TESTER (REG CTRL CURRNT)	
	(a) Connect the intelligent tester (with CAN VIM) to the	

- DLC3.(b) Turn the ignition switch ON and turn the intelligent tester main switch ON.
- (c) Select the items below in the DATA LIST, and read the value displayed on the intelligent tester.

Air conditioning amplifier

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
REG CTRL CURRNT	Regulator control current / Min.: 0 A Max.: 0.997 A	Value changes between 0 A and 0.997 A in accordance with A/C compressor operation	-

OK:

The display is as specified in the normal condition column.

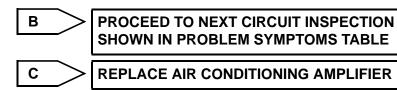
Result

Α

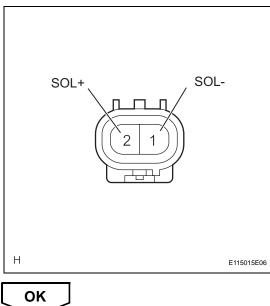
2

Result	Proceed to
NG	A
OK (Checking from the PROBLEM SYMPTOMS TABLE)	В
OK (Checking from the DTC)	С

(



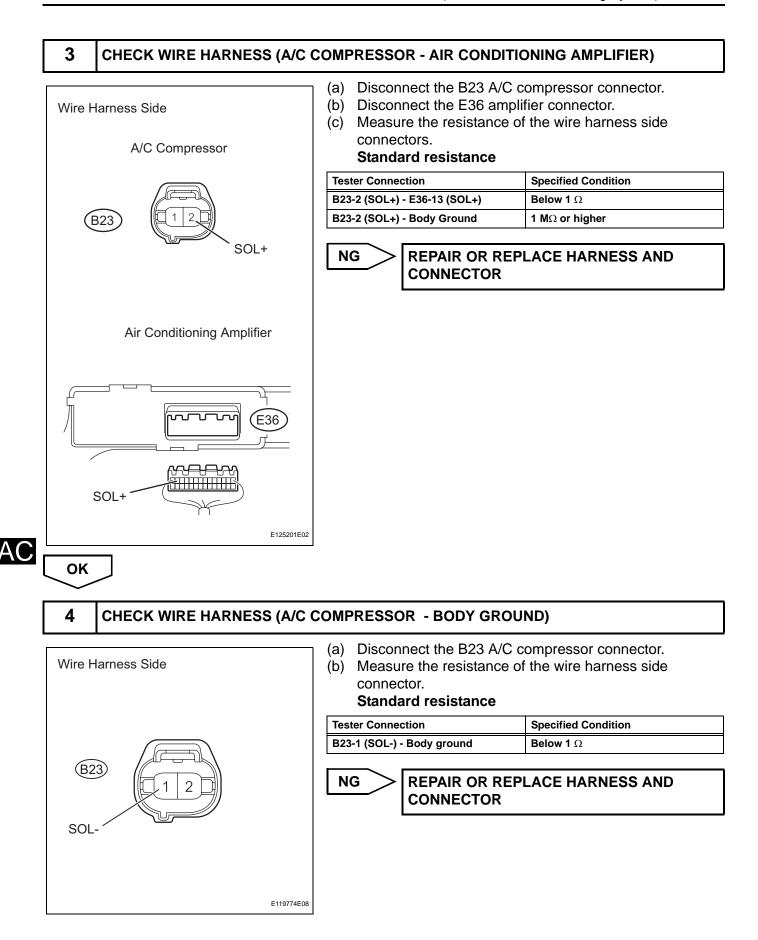
INSPECT A/C COMPRESSOR



a)	Disconnect the A/C	compressor connector.
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(b) Measure the resistance of the connector. **Standard resistance**

Condition	Specified Condition	
25°C (77°F)	10.1 to 11.1 Ω	AC
	KESSUK	
-		25°C (77°F) 10.1 to 11.1 Ω ACE A/C COMPRESSOR



ОК

REPLACE AIR CONDITIONING AMPLIFIER

AC