Compressor Circuit

DESCRIPTION

The air conditioning amplifier outputs the magnetic clutch ON signal from the MPX terminal to the ECM which receives this signal. It then sends the signal from the ACMG terminal and switches the magnetic clutch relay on, thus turning on the magnetic clutch.

WIRING DIAGRAM



1	READ VALUE O	E OF INTELLIGENT TESTER		
ALL	 (a) Connect the intelligent tester to DLC3. (b) Turn the ignition switch ON and push the intelligent tester main switch ON. (c) Select the items below in the DATA LIST, and read the displays on the intelligent tester. 			to DLC3. nd push the intelligent DATA LIST, and read the er.
	ltem	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
	A/C SIG	A/C signal / ON or OFF	A/C ON: ON	-

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AC:

2 PERFORM ACTIVE TEST BY INTELLIGENT TESTER

- (a) Connect the intelligent tester to DLC3.
- (b) Turn the ignition switch ON and push the intelligent tester main switch ON.

Go to step 7

(c) Select the item below in the ACTIVE TEST and then check that the relay operates.

Item	Test Details / Display (Range)	Diagnostic Note
A/C MAG CLUTCH	Magnetic clutch relay / OFF, ON	-

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Go to step 3

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

3 INSPECT ECM (ACMG - BODY GROUND)



- (a) Remove the ECM with connectors still connected.
- (b) Start the engine and push the AUTO switch.
- (c) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester connection	Condition	Specified condition
E6-2 (ACMG) - Body ground	A/C switch OFF	11 to 14 V
E6-2 (ACMG) - Body ground	A/C switch ON	Below 1 V

Result

Condition	Proceed to
ок	A
NG (Always 11 to 14 V)	В
NG (Always below 1.0 V)	С



A

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OK

INSPECT MAGNETIC CLUTCH ASSEMBLY



E005280E08

a)	Disconnect the connector from the magnet clutch
	assembly.

 (b) Connect the positive (+) lead from the battery to terminal 3 and negative (-) lead to terminal body ground, then check that the magnetic clutch assembly is engaged.





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PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE







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REPLACE ECM

