

COMPRESSOR SOLENOID CIRCUIT

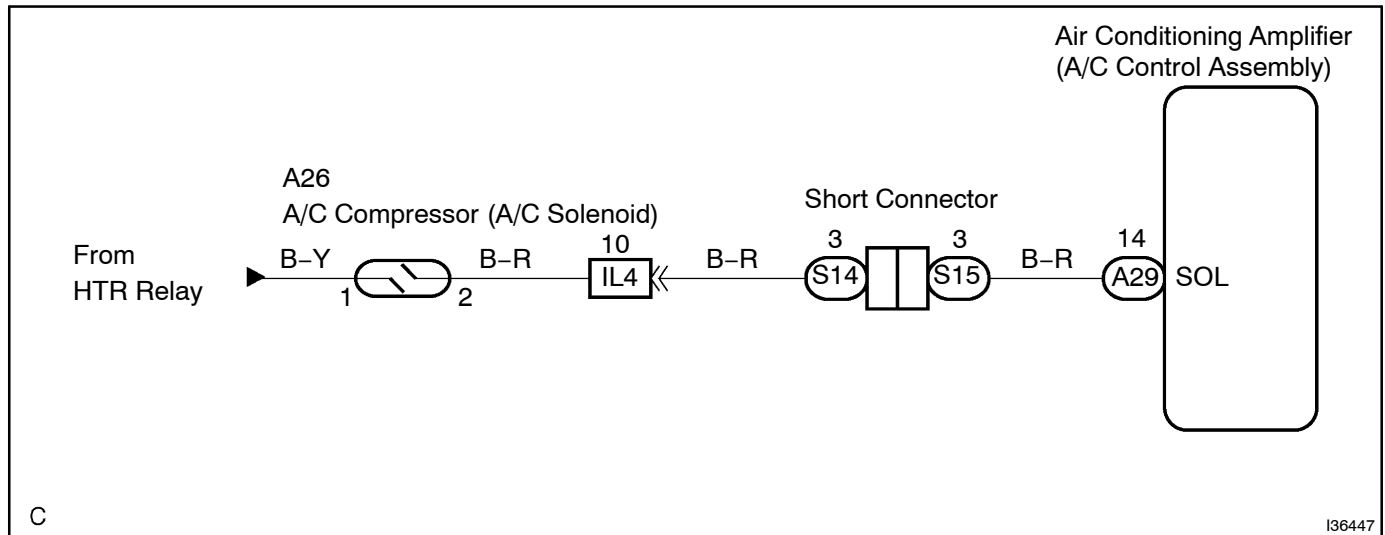
CIRCUIT DESCRIPTION

This circuit is only for 2AZ-FE engine model.

The A/C amplifier controls the amount of refrigerant output from the A/C compressor by controlling the A/C solenoid installed in the A/C compressor.

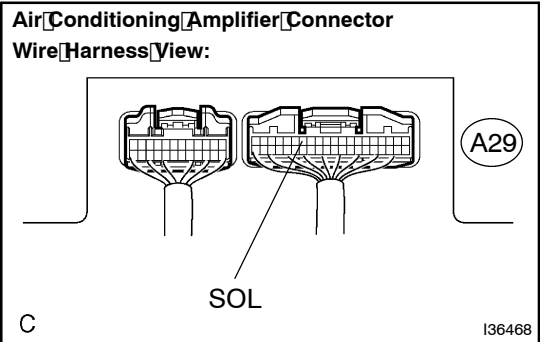
Based on the signal, the compressor assembly changes the degree of refrigerant compression.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT AIR CONDITIONING AMPLIFIER (SOL - BODY GROUND)



- (a) Remove the A/C amplifier with the connectors still connected.
- (b) Turn the ignition switch to the ON position.
- (c) Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A29-14 (SOL) - Body ground	Start the engine Auto switch: ON	Below 1.0 V

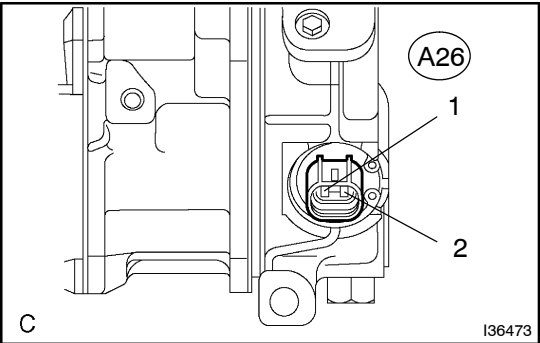
HINT:
As the temperature increases, the voltage decreases.

NG Go to step 2

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-862)

2 INSPECT COOLER COMPRESSOR ASSY (AIR CONDITIONER SOLENOID)



- (a) Disconnect the connector from the cooler compressor assy.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A26-1 - A26-2	at 20°C (68°F)	10 to 11 Ω

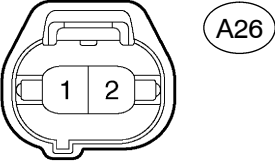
NG REPLACE COOLER COMPRESSOR ASSY

OK

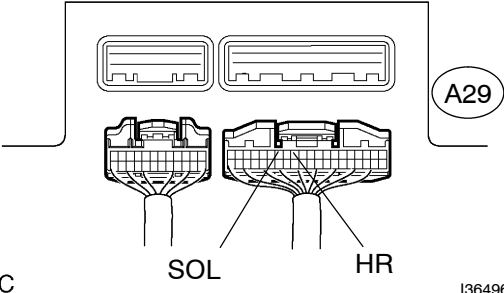
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CHECK HARNESS AND CONNECTOR (COOLER COMPRESSOR ASSY - AIR CONDITIONING AMPLIFIER) (SEE PAGE 01-32)

Cooler Compressor Assy Connector Wire Harness View:



Air Conditioning Amplifier Connector Wire Harness View:



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- (a) Disconnect the connectors from the cooler compressor assy and A/C amplifier.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A26-1 - A29-14 (SOL)	Always	Below 1 Ω
A26-2 - Body ground	Always	10 kΩ or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-862)