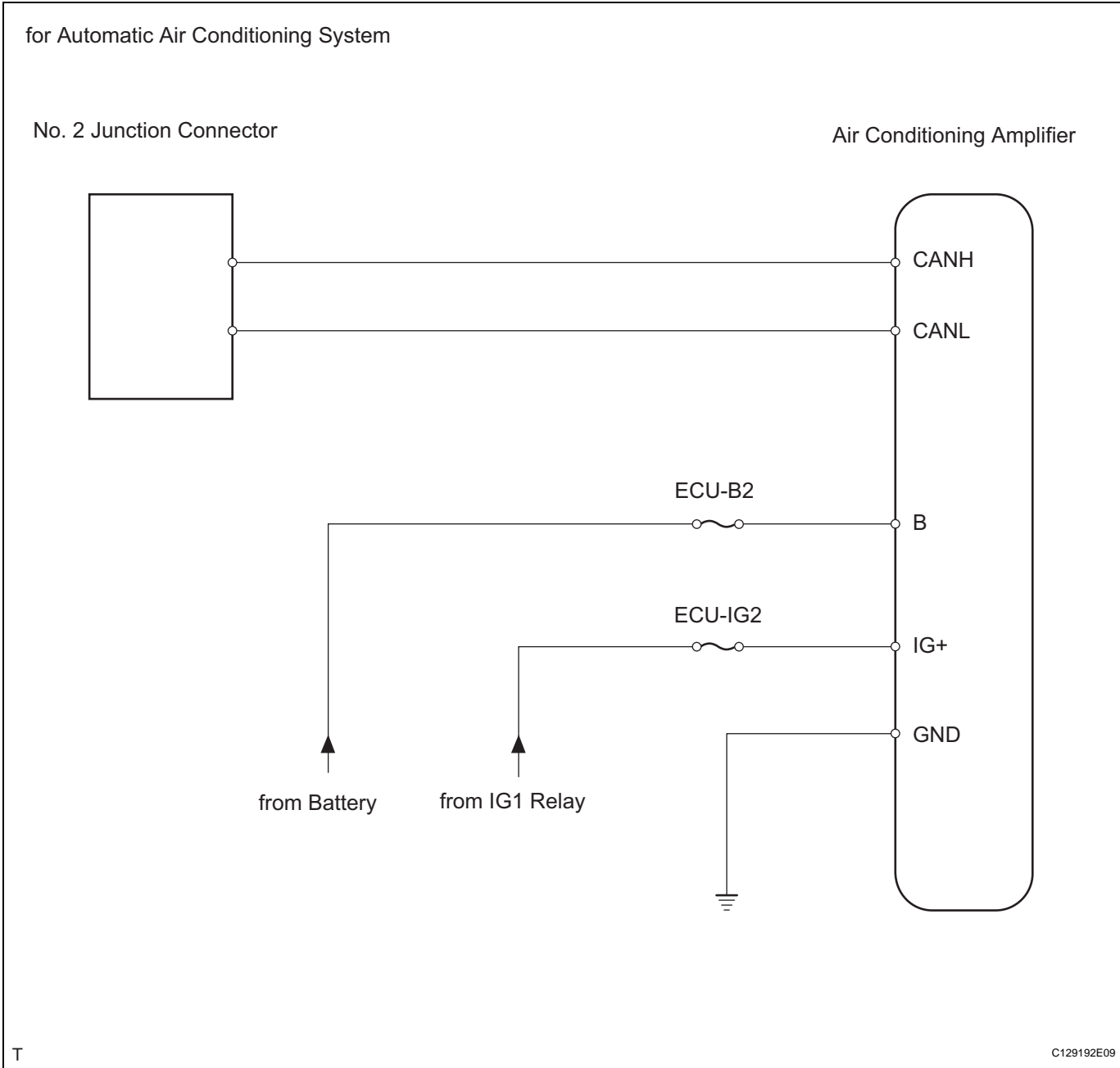


Air Conditioning Amplifier Communication Stop Mode

DESCRIPTION

Detection Item	Symptom	Trouble Area
AIR CONDITIONING AMPLIFIER COMMUNICATION STOP MODE	<ul style="list-style-type: none"> A/C is not displayed on "BUS CHECK" screen of intelligent tester Applies to "AIR CONDITIONING AMPLIFIER COMMUNICATION STOP MODE" in "DTC COMBINATION TABLE" 	<ul style="list-style-type: none"> Power source or inside air conditioning amplifier Air conditioning amplifier branch wire and connector Air conditioning amplifier

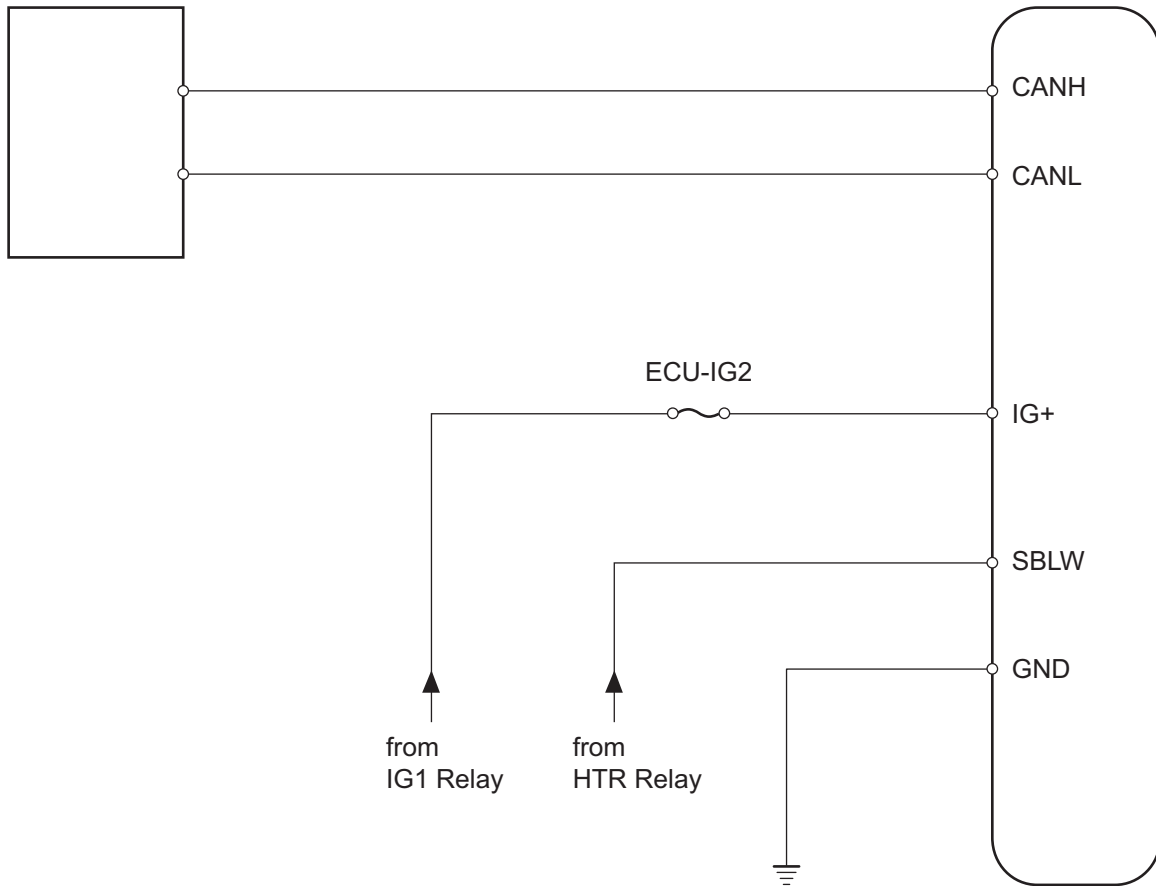
WIRING DIAGRAM



for Manual Air Conditioning System

No. 2 Junction Connector

Air Conditioning Amplifier



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INSPECTION PROCEDURE

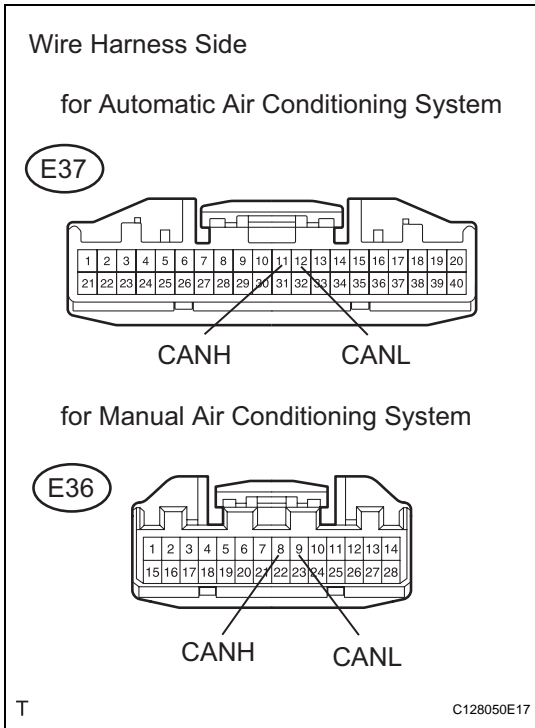
NOTICE:

- Turn the ignition switch OFF before measuring the resistances of the main wire and the branch wire.
- After the ignition switch is turned OFF, check that the key reminder warning system and light reminder warning system are not in operation.
- Before measuring the resistance, leave the vehicle for at least 1 minute and do not operate the ignition switch, any switches or doors. If doors need to be opened in order to check connectors, open the doors and leave them open.

HINT:

Operating the ignition switch, any switches or any doors triggers related ECU and sensor communication with the CAN, which causes resistance variation.

1 CHECK CAN BUS LINE FOR DISCONNECTION (AIR CONDITIONING AMPLIFIER BRANCH WIRE)



- (a) Disconnect the E37*1 or E36*2 air conditioning amplifier connector.

HINT:

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

- (b) Measure the resistance of the wire harness side connector.

Standard resistance:

for Automatic Air Conditioning System

Tester Connection	Condition	Specified Condition
E37-11 (CANH) - E37-12 (CANL)	Ignition switch OFF	54 to 69 Ω

for Manual Air Conditioning System

Tester Connection	Condition	Specified Condition
E36-8 (CANH) - E36-9 (CANL)	Ignition switch OFF	54 to 69 Ω

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REPAIR OR REPLACE CAN BRANCH WIRE CONNECTED TO AIR CONDITIONING AMPLIFIER (CANH, CANL)

OK

2 CHECK WIRE HARNESS (AIR CONDITIONING AMPLIFIER - BATTERY AND BODY GROUND)

- (a) Disconnect the E37*1 or E36*2 air conditioning amplifier connector.

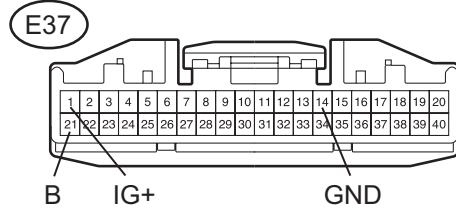
HINT:

- *1: for Automatic air conditioning system.

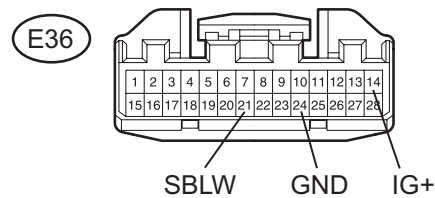
CA

Wire Harness Side

for Automatic Air Conditioning System



for Manual Air Conditioning System



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- *2: for Manual air conditioning system.

(b) Measure the resistance of the wire harness side connectors.

Standard resistance:
for Automatic Air Conditioning System

Tester Connection	Specified Condition
E37-14 (GND) - Body ground	Below 1 Ω

for Manual Air Conditioning System

Tester Connection	Specified Condition
E36-24 (GND) - Body ground	Below 1 Ω

(c) Measure the voltage of the wire harness side connector.

Standard voltage:
for Automatic Air Conditioning System

Tester Connection	Condition	Specified Condition
E37-21 (B) - Body ground	Always	10 to 14 V
E37-1 (IG+) - Body ground	Ignition switch ON	10 to 14 V

for Manual Air Conditioning System

Tester Connection	Condition	Specified Condition
E36-14 (IG+) - Body ground	Ignition switch ON	10 to 14 V

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE AIR CONDITIONING AMPLIFIER

CA