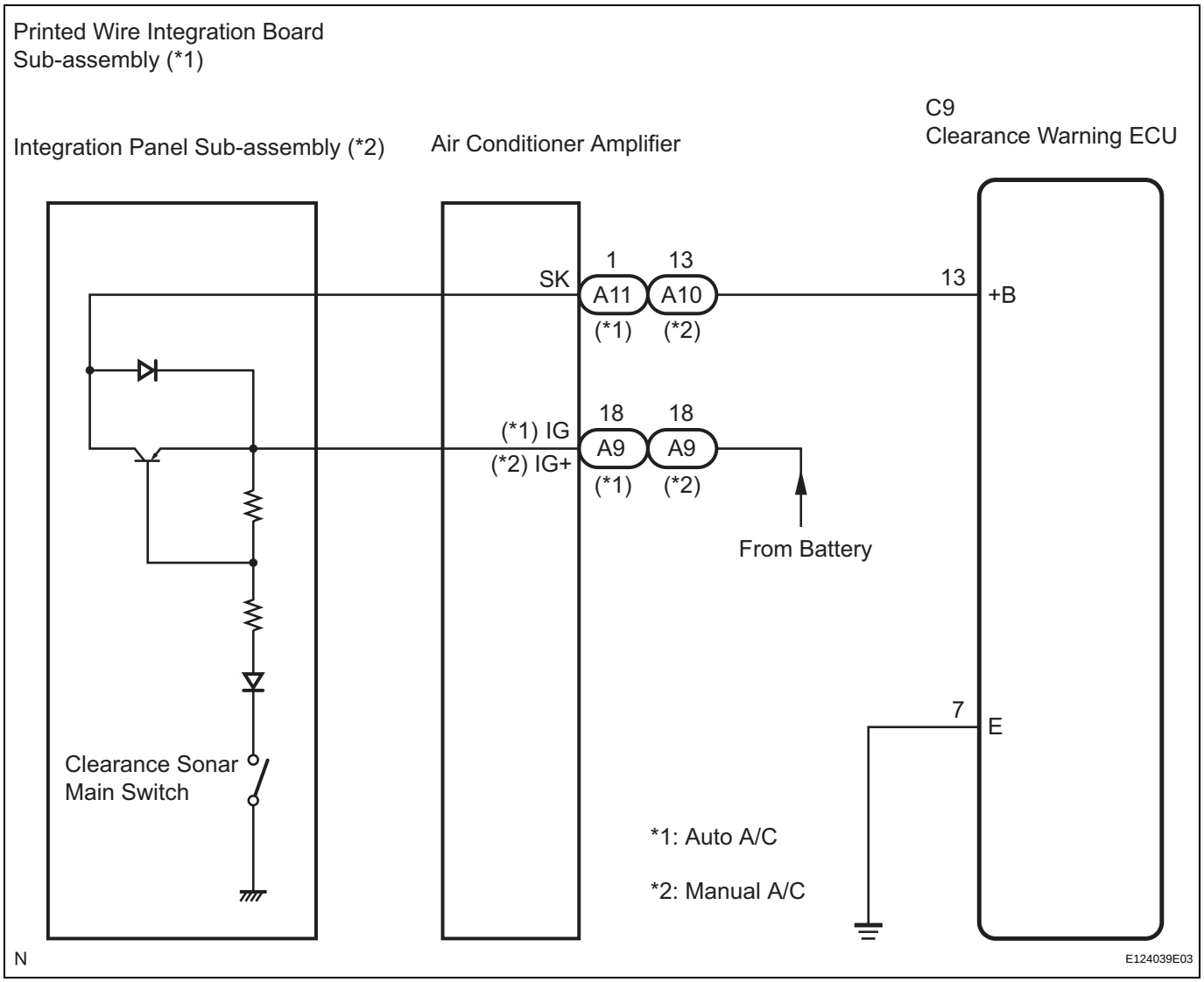
Clearance Warning ECU Power Source Circuit

DESCRIPTION

This circuit provides power to the clearance warning ECU.

WIRING DIAGRAM

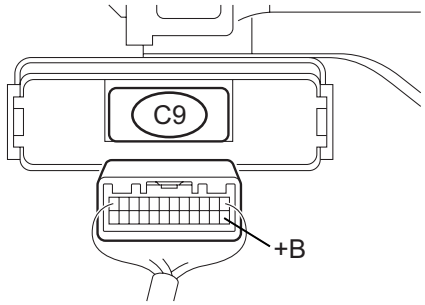


PM

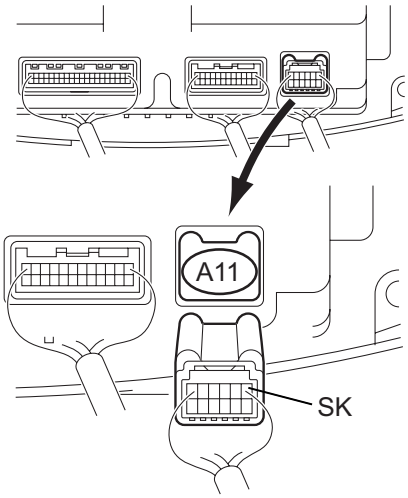
INSPECTION PROCEDURE

1	CHECK HARNESS AND CONNECTOR (CLEARANCE WARNING ECU - AIR CONDITIONER AMPLIFIER)

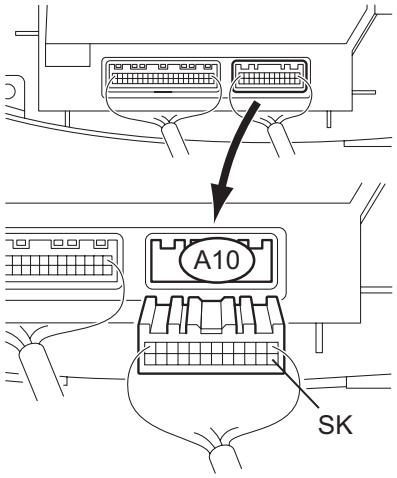
Clearance Warning ECU Wire Harness View:



Air Conditioner Amplifier (Auto A/C) Wire Harness View:



Air Conditioner Amplifier (Manual A/C) Wire Harness View:



H

E145205E04

(a) Disconnect the connectors from the clearance warning ECU C9 and air conditioner amplifier connector A10 or A11.

(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
+B - SK	Always	Below 1 Ω
+B - Body ground	Always	10 kΩ or higher

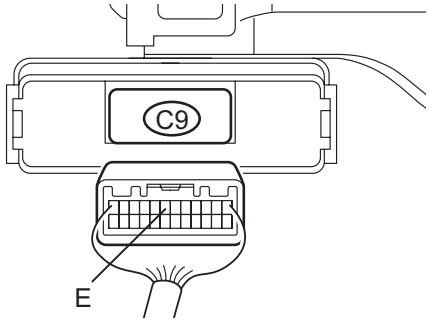
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

PM

OK

2 CHECK HARNESS AND CONNECTOR (CLEARANCE WARNING ECU - BODY GROUND)

Wire Harness View:



(a) Measure the resistance according to the value(s) in the table below.

Standard resistance

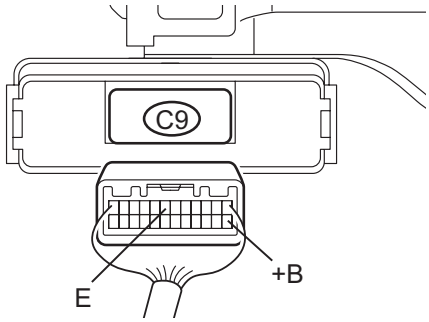
Tester Connection	Condition	Specified Condition
E - Body ground	Always	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

3 INSPECT CLEARANCE WARNING ECU

Wire Harness View:



(a) Disconnect the clearance warning ECU connector.
(b) Turn the ignition switch ON.
(c) Turn the clearance sonar main switch ON.
(d) Measure the voltage between terminals +B and E of the ECU.

Standard voltage:
10 to 14 V

Result

Result	Proceed to
OK	A
NG	B (Auto A/C)
NG	C (Manual A/C)

B → **Go to step 4**

C → **Go to step 5**

A

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

PM

4	INSPECT PRINTED WIRE INTEGRATION BOARD SUB-ASSEMBLY

(a) Check that the malfunction disappears when a known good printed wire integration board sub-assembly is installed.

OK:

Malfunction disappears.

NG → **REPLACE AIR CONDITIONER AMPLIFIER**

OK

REPLACE PRINTED WIRE INTEGRATION BOARD SUB-ASSEMBLY

5	INSPECT INTEGRATION PANEL SUB-ASSEMBLY

(a) Check that the malfunction disappears when a known good integration panel sub-assembly is installed.

OK:

Malfunction disappears.

NG → **REPLACE AIR CONDITIONER AMPLIFIER**

OK

REPLACE INTEGRATION PANEL SUB-ASSEMBLY