

Cruise

CR 86



TROUBLE SHOOTING

CRUISE

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LIST OF NECESSARY TOOLS

Before starting any analysis activity or any replacement of defective components, be sure to have the followings tools:

- Adjustable power supply;
- Voltage Tester;
- Phillips head screwdrivers;
- Wire to make bridge within 2 connectors;
- Wire Cutter/scissors;
- Led with positive and negative leads;
- Socket Wrench;

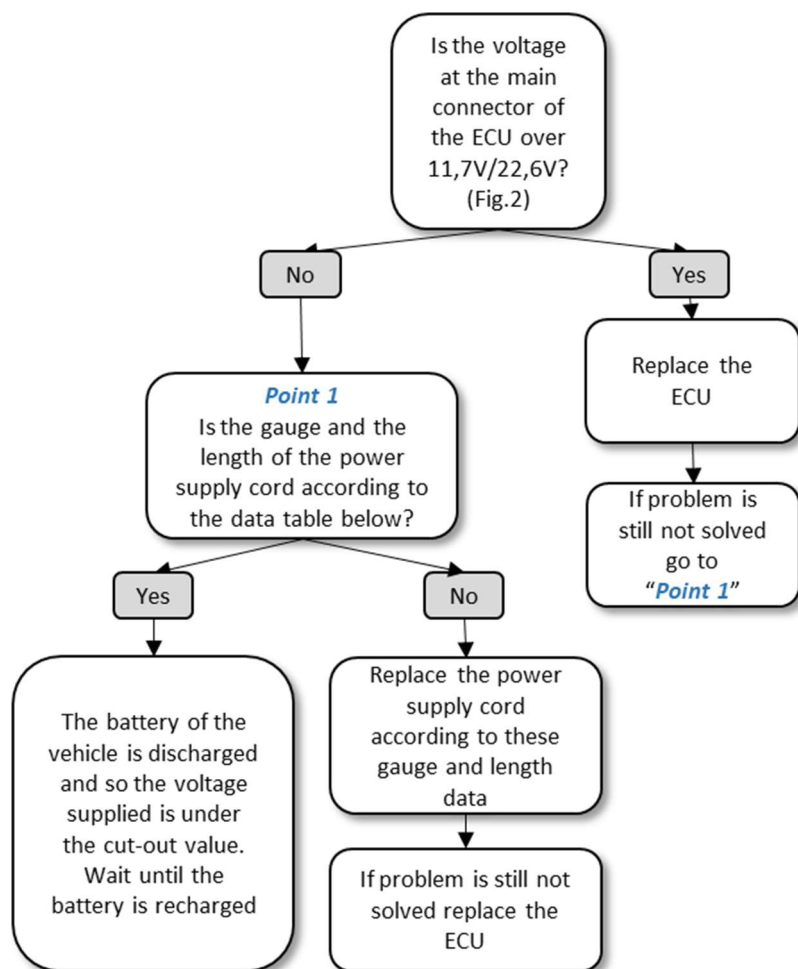
HOW TO DETECT THE TYPE OF FAULT

1. If the compressor does not start:
Please connect a led to the D/I (-) and C (+) connector of the ECU and check the number of flashes (*Fig. 1*).
Each error corresponds to a number of flashes from the led:
 - Error E1: one blinking flash;
 - Error E2: two blinking flashes;
 - Error E3: three blinking flashes;
 - Error E4: four blinking flashes;
 - Error E5: five blinking flashes;

If the led will not flash check the flow chart “NO BLINKING CODE, COMPRESSOR DOES NOT RUN” at page 10;

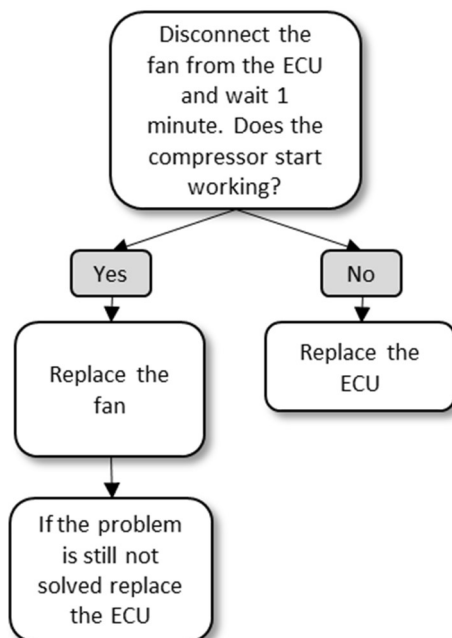
2. If the compressor runs but the refrigerator does not cool or does not cool enough please check the flow chart “COMPRESSOR RUNS BUT REFRIGERATOR DOES NOT COOL” at page 11;
3. If the refrigerator is noisy please check the flow chart “REFRIGERATOR IS NOISY” at page 12;

ERROR E1: Battery protection cut-out

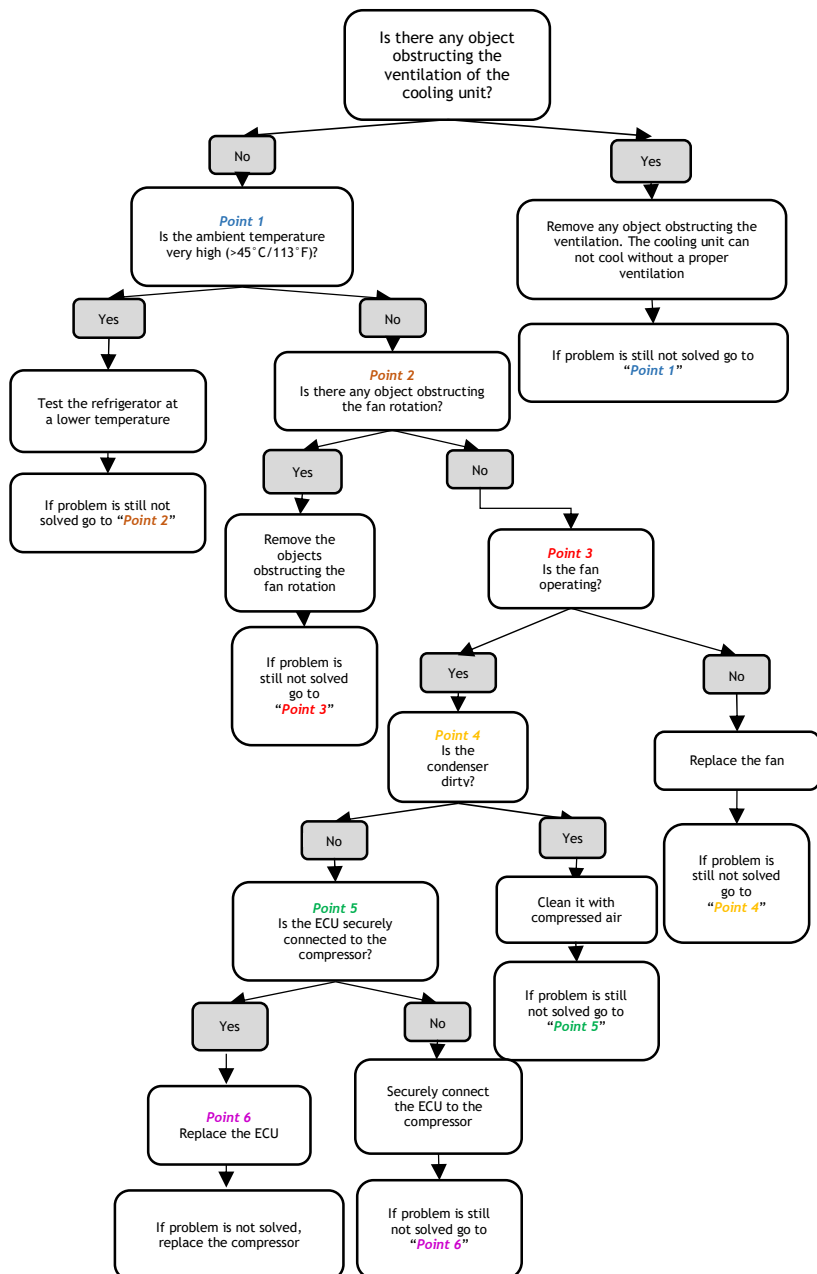


CROSS SECTION CABLES	MAXIMUM LENGHT OF CABLES	
	12V	24V
2.5 mm ² (13 awg)	2.5 m (8ft)	5 m (16ft)
4 mm ² (11 awg)	4 m (13ft)	8 m (26ft)
6 mm ² (9 awg)	6 m (20ft)	12 m (39ft)
10 mm ² (7 awg)	10 m (33ft)	20 m (66ft)

ERROR E2: Fan over-current cut-out

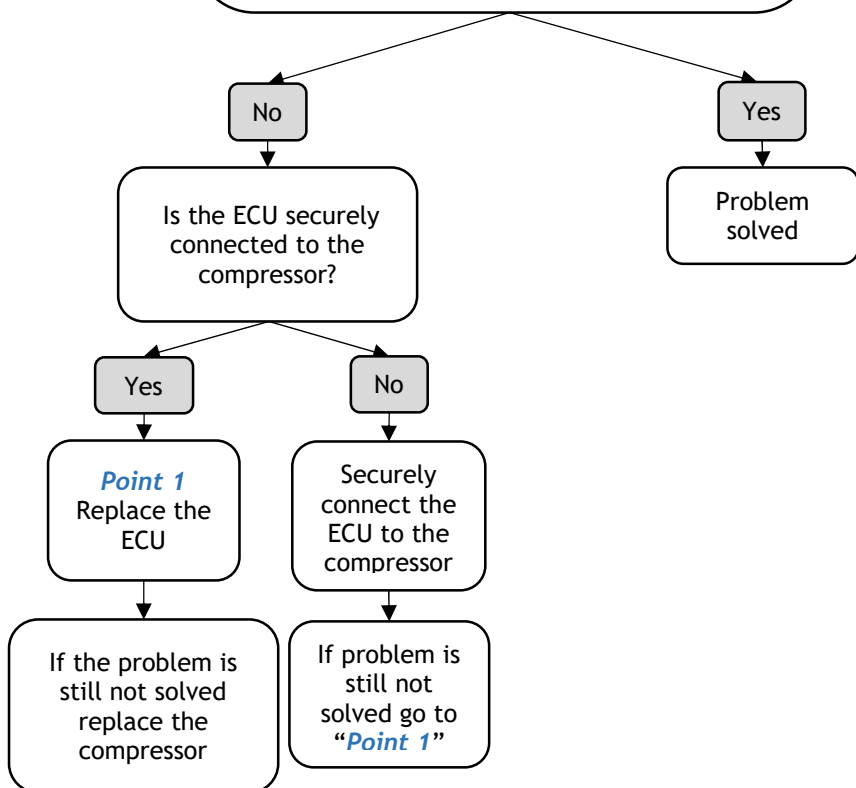


ERROR E3: Motor start error

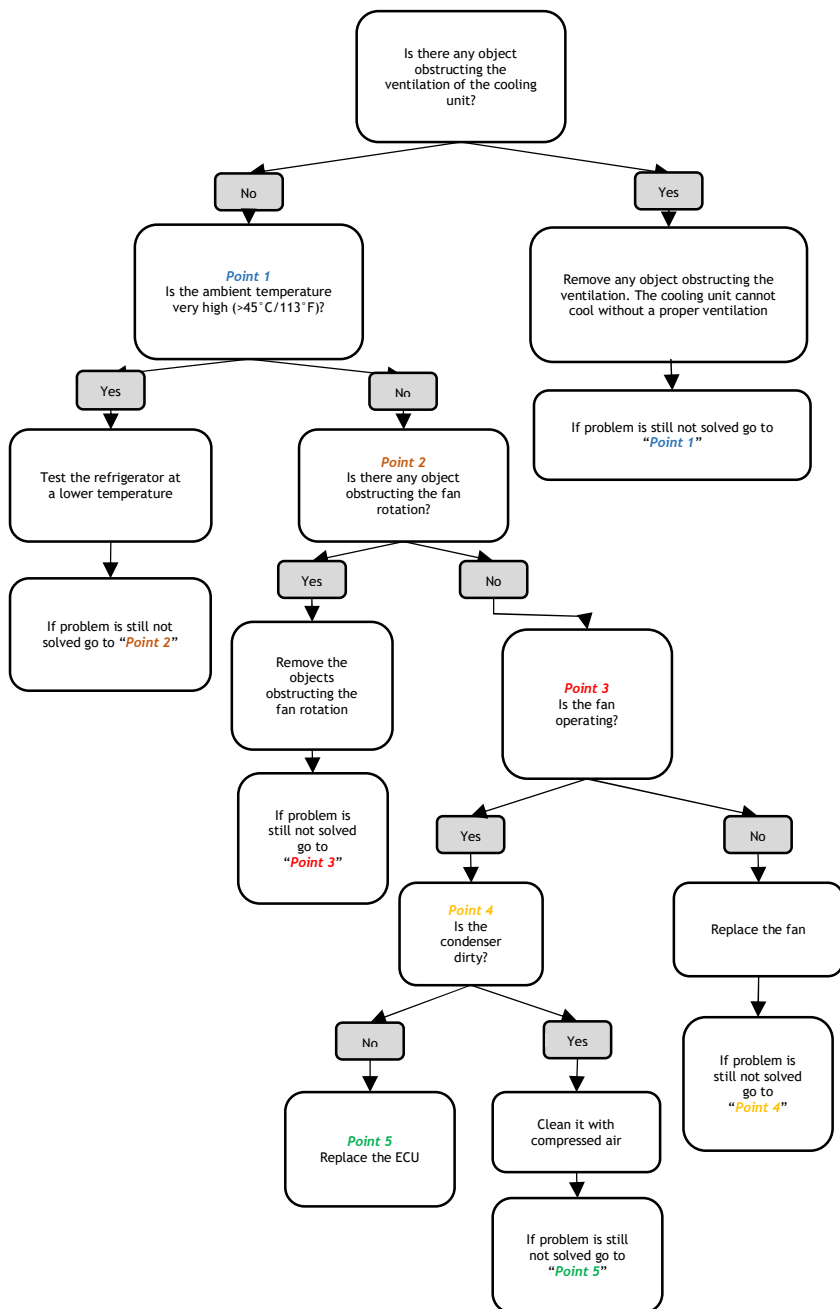


ERROR E4: motor speed error

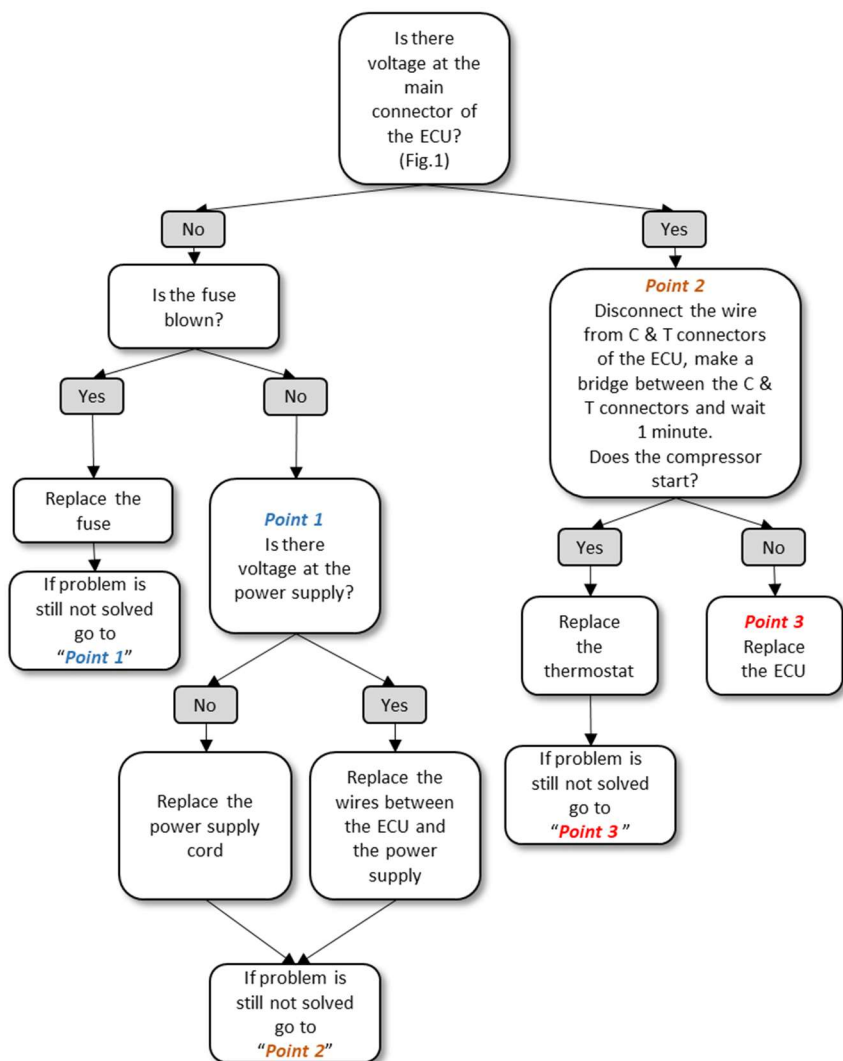
Sudden voltage drop may cause the error.
-Voltage peak may be caused by switching on the vehicle: wait 2 minutes to check if the compressor starts running.
-Voltage drop may be caused by other appliances connected to the same power line: disconnect some appliance and wait 2 minutes to check if the compressor starts running.
Does the compressor start running?



ERROR E5: Thermal cut-out of the electronic unit

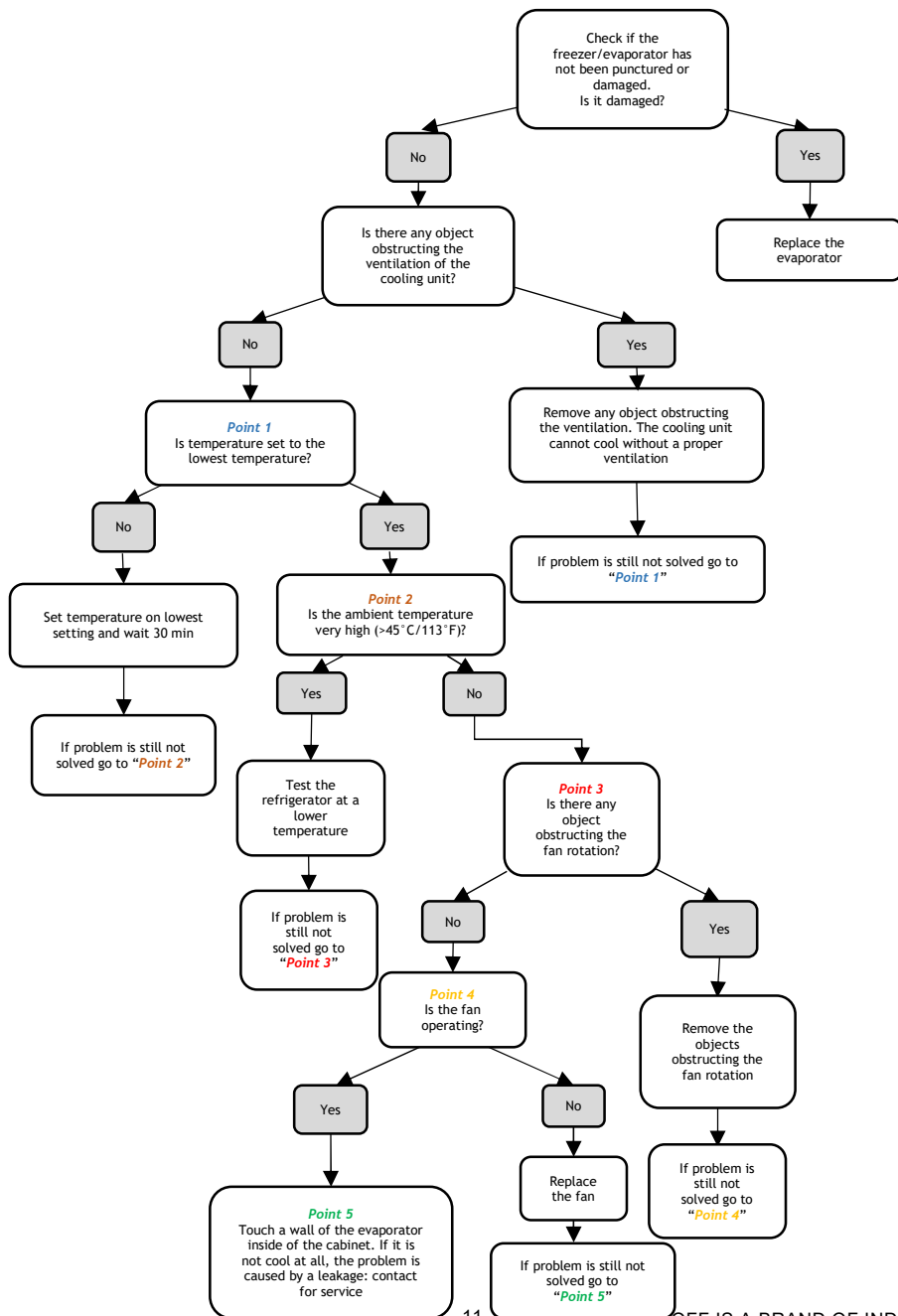


NO BLINKING CODE, COMPRESSOR DOES NOT RUN

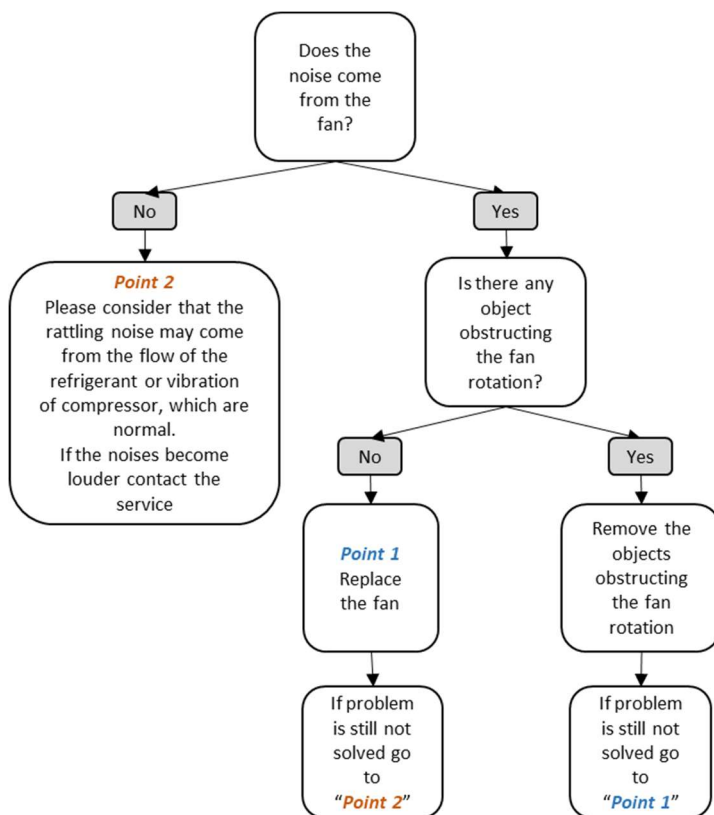


COMPRESSOR RUNS BUT REFRIGERATOR DOES NOT COOL

EN



REFRIGERATOR IS NOISY



PICTURES

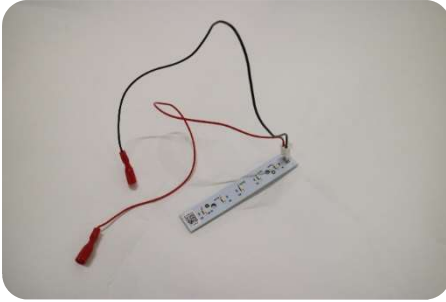


Fig.1



Fig.2

HOW TO REPLACE THE DOOR

EN



- 1) Unscrew the top (5 screws) and the upper hinge on the opposite side of the handle (4 screws)



- 2) Pull out the door to remove it

HOW TO REPLACE THE ECU



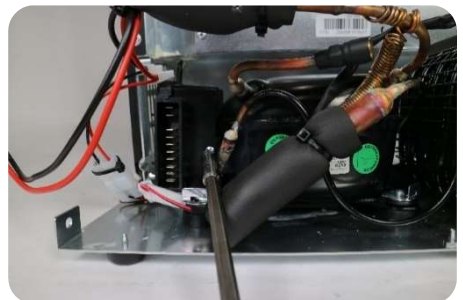
1) Unscrew the cooling unit (2 screws each side)



2) Pull out the cooling unit



3) Disconnect all the wires from the ECU unscrew the screw fixing the ECU



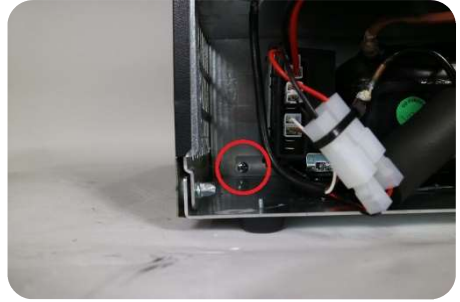


4) Move the unit and remove the rear screw fixing the ECU. Then remove the ECU and reverse the procedure to install a new one

HOW TO REPLACE THE FAN



1) Unscrew the cooling unit (2 screws each side)



2) Pull out the cooling unit



3) Disconnect the fan wires from + and F connectors of the ECU



4) Cut the plastic ties fixing the fan wires to the filter



5) Unscrew the two bracket fixing the condenser and the fan (4 screws under the cooling unit basement)



6) Unscrew the fan (4 screws)



7) Remove the fan and reverse the procedure to replace it with a new one

HOW TO REPLACE THE LIGHT

EN



- 1) Push the button and pull out the plastic glass to remove it, then disconnect the wires and remove the lamp

HOW TO REPLACE THE THERMOSTAT

EN



1) Unscrew the evaporator (2 screws)



2) Unscrew the bracket fixing the thermostat sensor (2 screws on the evaporator)



3) Remove the thermostat knob



4) Unscrew the screw-nut fixing the thermostat



5) Push the button and pull out the plastic glass to remove it, then unscrew the ceiling light





6) Disconnect the wires from the thermostat and then pull the thermostat out

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