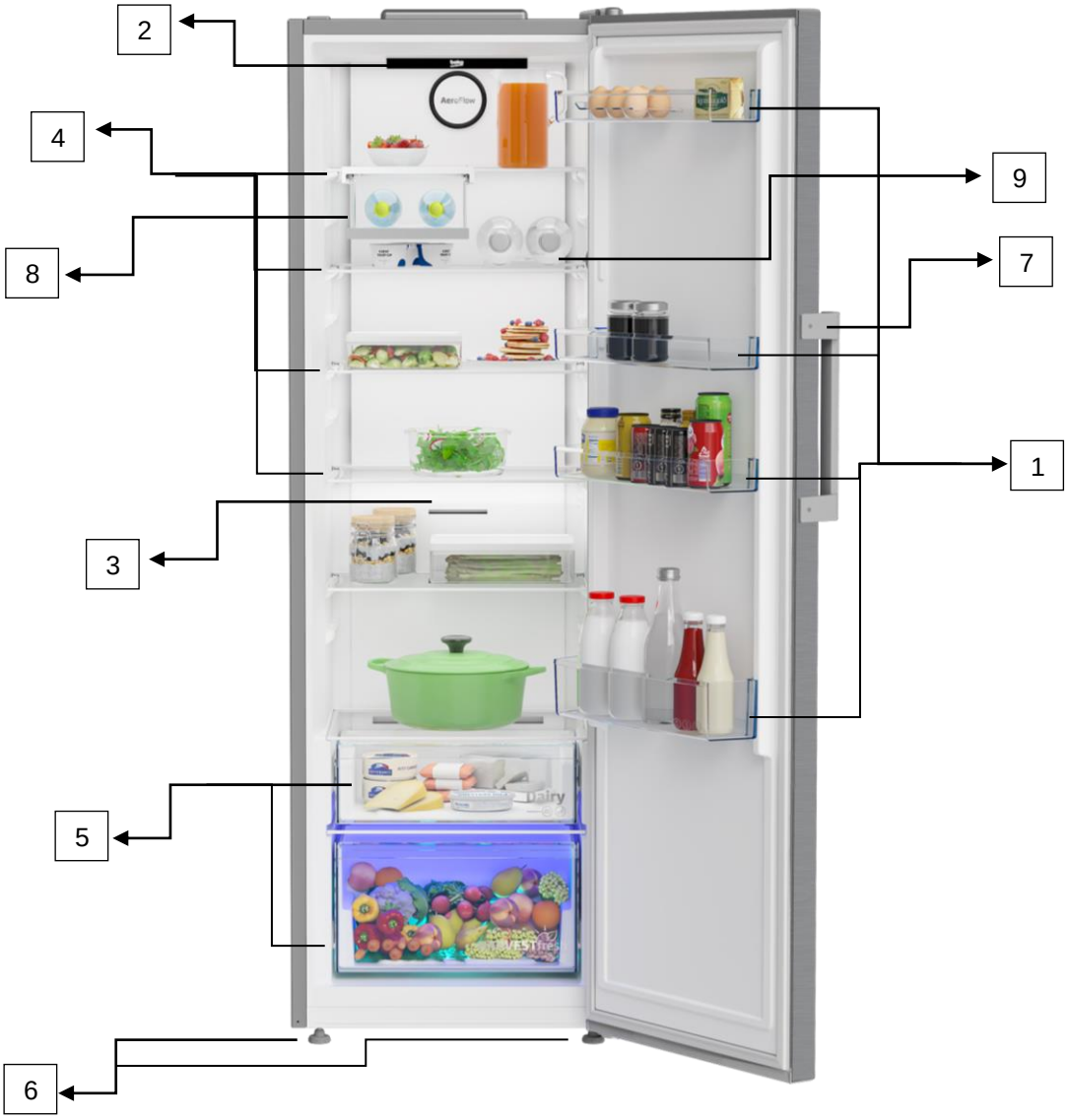
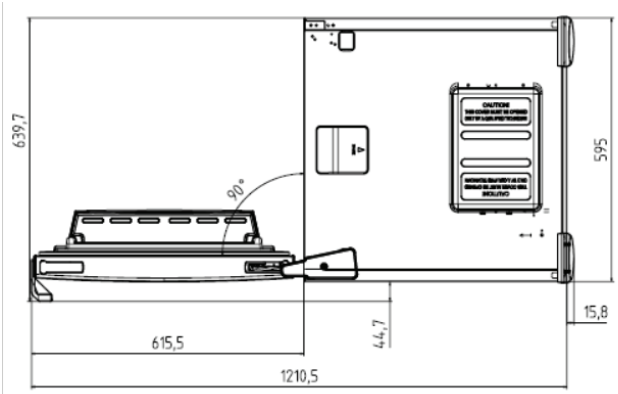
60 CM WIDE 447 LITER COOLER REFRIGERATOR DISASSEMBLY-ASSEMBLY OPERATIONS

L60447NE

PRODUCT OVERVIEW



1. DOOR SHE
2. INNER LAMP
3. FAN
4. ADJUSTABLE REFRIGERATOR SHELVES
5. DRAWERS
6. ADJUSTABLE LEGS
7. DOOR HANDLE
8. FOLDABLE WINE RACK
9. BOTTLE HOLDER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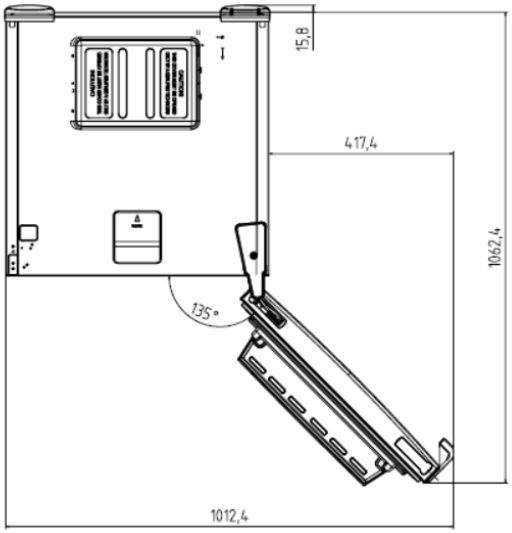
15,8
615,5
44,7
1210,5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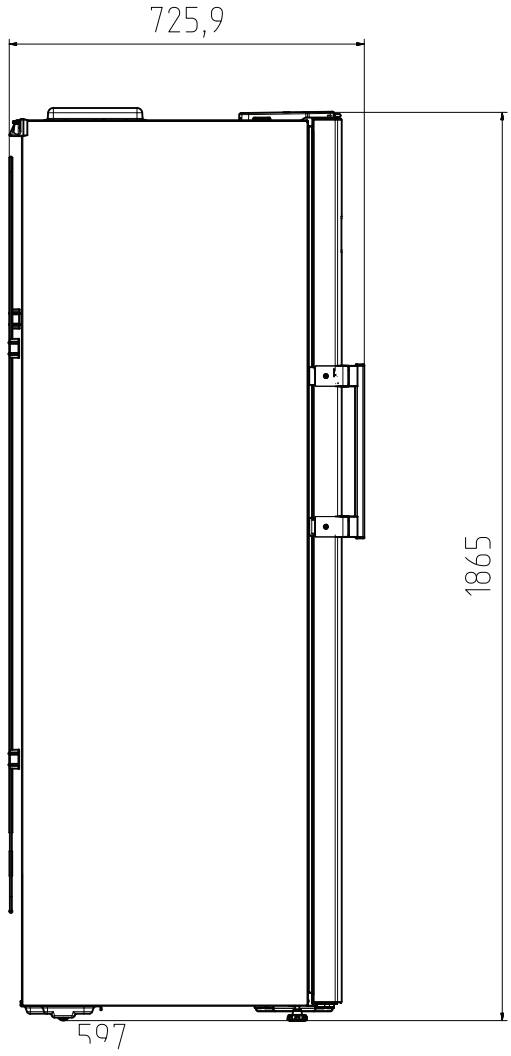
1012,4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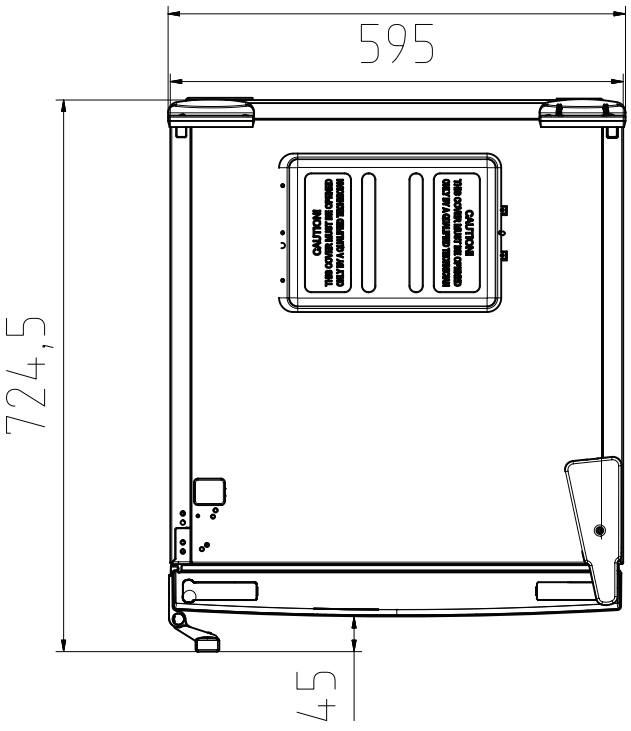

595
724,5
45
CAUTION
CAUTION

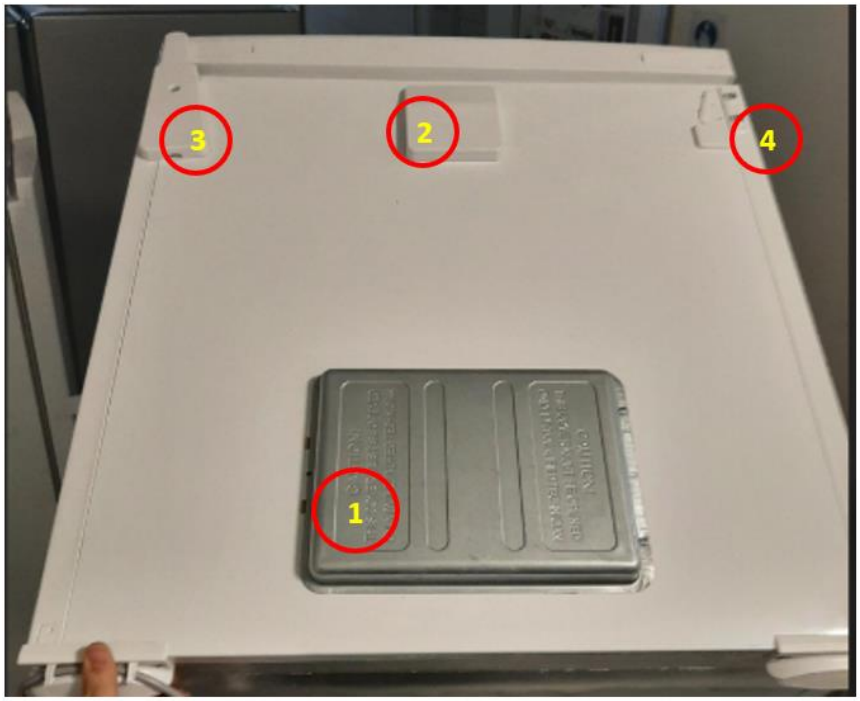
REMOVAL AND INSTALLATION PROCEDURES

IMPORTANT!

Instructions for removing and installing hinges, gaskets/wicks, handles, body and door shelves, vegetable bins, freezer drawers and iceboxes are given in the "End User Documents" tab of this website. Therefore, the instructions for these spare parts are not included in this document.
Be sure to unplug the product before conducting any removal procedure on the product.

BOARD COVER AND ELECTRONIC BOARDS

The control card is on the top sheet of the products. To access the card, it is necessary to loosen the screws next to the card cover with a phillips screwdriver and open the card slot. The socket and then the card is removed.



1. Card Box Cover
2. Wifi Box Cover
3. Hinge cover
4. Left swing door hinge bearing

The Wi-Fi / humidity sensor cover is removed as shown in the picture.

ILLUMINATION ASSEMBLY AND LED BOARD

Lighting cards are at the top of the cooler compartment. Screw-free mounting is used. It can be removed by pulling forward from the back and stretching. Then, the removal procedure process is completed by removing the connection sockets inside.

LED THERMOSTAT BOX COVER

Apply a flat screwdriver or a utility knife between the LED thermostat cover and the inner housing to separate the cover and the housing. After this separation process, the group is removed by pulling it downwards.

SENSOR COVER

The sensor cover is secured with a tab connection. To remove it, the cover must be flexed with a flat screwdriver as shown in the figure.

DRAWER - DRAWER SLIDES - GLASS SHELVES

Picture 1: Removing shelves and drawers.

Vegetable bins and vegetable cover are removed as shown in the picture.

The rails are on the right and left sides of the body. To remove the rails, it is necessary to first remove the drawers. Screw mounting is used on the rails. Locking nails are used for fastening. The rails can be removed by applying force upwards from their lower surfaces.
To install it, the rail is first fixed from the upper side to the inner body by applying force from the lower part and locking into the inner body through a clawed connection.

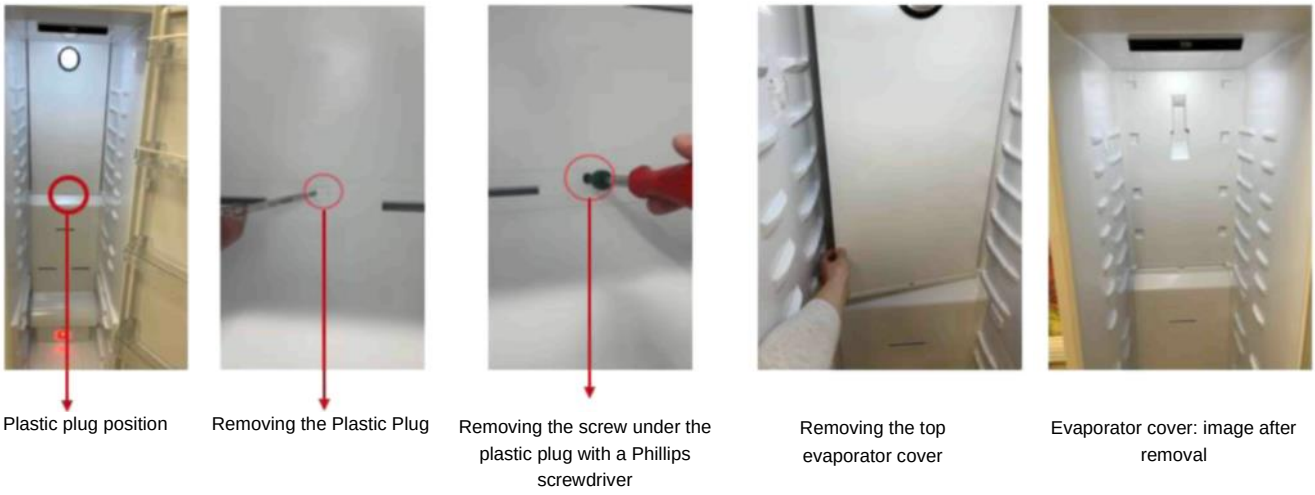
After the glass shelves are pulled forward as shown in the images below, the rear profile is lifted to be removed from the form on the body and pulled out first.

FRESH FOOD EVAPORATOR COVER

Before removing the evaporator cover, all shelves and drawers are removed from the cabinet.

Picture 1: Removing shelves and drawers.

Firstly, the plug is removed with the help of a flat-blade screwdriver on the top of the evaporator cover. The screw under the plug is unscrewed with a Phillips screwdriver. Starting from the bottom, carefully remove the upper evaporator cover by freeing it one by one from the tabs.



Picture 2: Removing the top evaporator cover.

EVAPORATOR COVER

After the upper evaporator cover is removed, it is time to remove the lower evaporator cover. First unscrew the screw at the bottom of the evaporator cover with a Phillips screwdriver. The lower eva cover is grasped with both hands from below and removed upwards by freeing it one by one from the claws. However, the evaporator fan cable attached to the lower evaporator cover must be removed from the socket on the cabinet. While installing the covers after disassembly, it is recommended to group the lower evaporator cover first and then the upper evaporator cover.

Picture 3: Removing the bottom evaporator cover.

FF EVAPORATOR REPLACEMENT

Before starting the evaporator removal process, the product is unplugged and the refrigerant inside is completely filled with the gas collection device into a suitable cylinder for later recycling.
After removing the upper and lower evaporator cover, the evaporator can be serviced. To disconnect the evaporator from the cabinet, firstly remove the evaporator temperature sensor from the evaporator. The bitumen wrapped at the point where the capillary pipe and the evaporator inlet are welded should be removed, then the capillary pipe and the evaporator inlet should be separated from each other with the help of a welding machine, and in addition, the connection between the evaporator outlet pipe and the aluminum return pipe should be eliminated.

Removing the evaporator temperature switch

Removing the defrost heater cable from the socket

Welded separation of evaporator inlet and outlet parts after bitumen extraction

Picture 3: Removal of the evaporator.

EVAPORATOR TEMPERATURE SENSOR

The evaporator temperature sensor is located in the inlet pipe of the evaporator after the junction of the capillary tube and the evaporator. After unplugging the product from the socket, it is removed from the aluminum tube as in Picture 3 and the cable is removed from the socket. Defrosting is terminated according to the temperature read by this sensor.

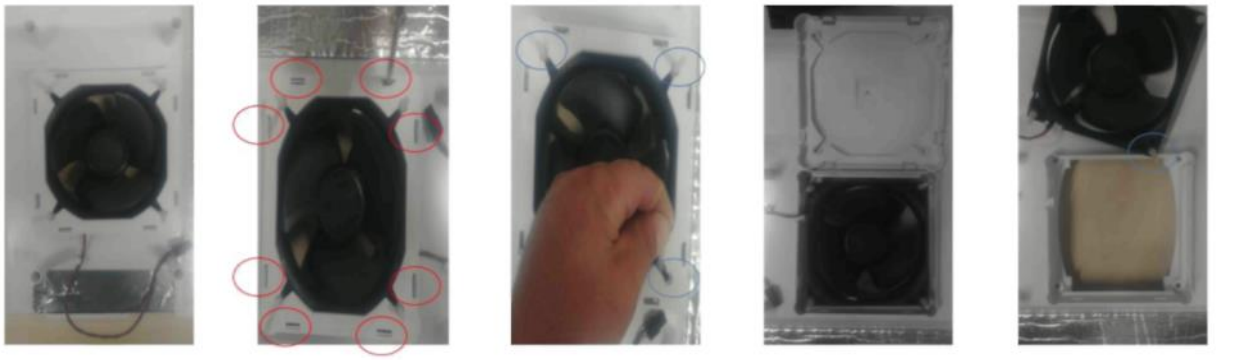
AIR TEMPERATURE SENSOR

In this model, the air temperature sensor is on the right side, between the 4th and 5th shelves from the bottom, just below the 5th shelf. It is effective in deciding when to start and stop the compressor by measuring the temperature inside the cabinet.
After unplugging the cabinet from the socket, we can remove the air temperature sensor by releasing it from the 4 tabbed connections as shown in Figure 4. To do this, the air sensor cover can be easily removed from the tabs by pressing with the thumb from the upper left corner. The sensor part cannot be serviced after removing the cover.

Picture 4: Removing the air sensor cover

Fan Group

The fan group is grouped with the lower evaporator cover. After the cabinet plug is removed from the socket, the lower and upper evaporator cover is removed, the fan cable is removed from the socket to which it is connected and the lower evaporator cover is completely free. In order to remove the fan from the lower evaporator cover, the operations in Figure 5 should be done in order.



Fan before installation

Use a flat screwdriver to disconnect the claw connections.

Silicone connections are pulled to the side

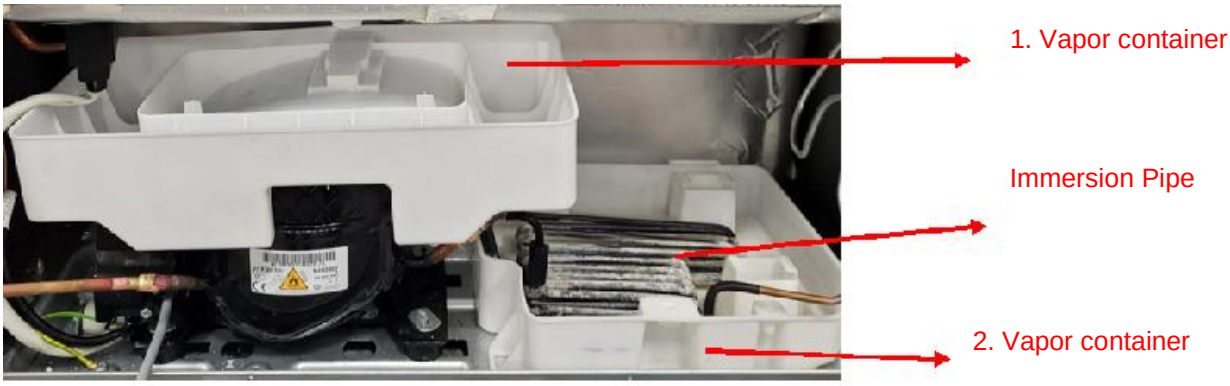
The front cover of the fan is easily removed.

Pull the silicone connections on the other surface and remove the fan from the back cover.

Picture 5: Removing the fan

VAPOR CONTAINER

This model has 2 vapor containers, one on top and one on the side of the compressor. After defrosting, the ice in the evaporator thaws and enters the liquid phase and the water flows into the vapor container on the compressor. When used in high humidity environments, if the first vapor container fills with water, the second vapor container next to it starts to fill with water. This prevents water from spilling out. In this model, the Immersion Pipe (Vaporizer copper pipe group) is used, which is placed inside the vapor container standing on the side. Vapor containers and immersion pipe are shown in Picture 7.



Picture 7: Vapor container & Immersion pipe

Since the immersion pipe is located inside the 2nd steam vessel, care must be taken not to bend the copper tubes when removing this steam vessel. When removing the vapor container, 1 fixing screw must be removed first. Then the immersion pipe is lifted up a little and the vapor container is pulled out from under the immersion pipe. For the 1st vapor container, first the retaining tab is released from the bracket on the compressor, then the vapor container is pulled forward and removed (Picture 8)

Picture 8: Removing and installing the vapor container

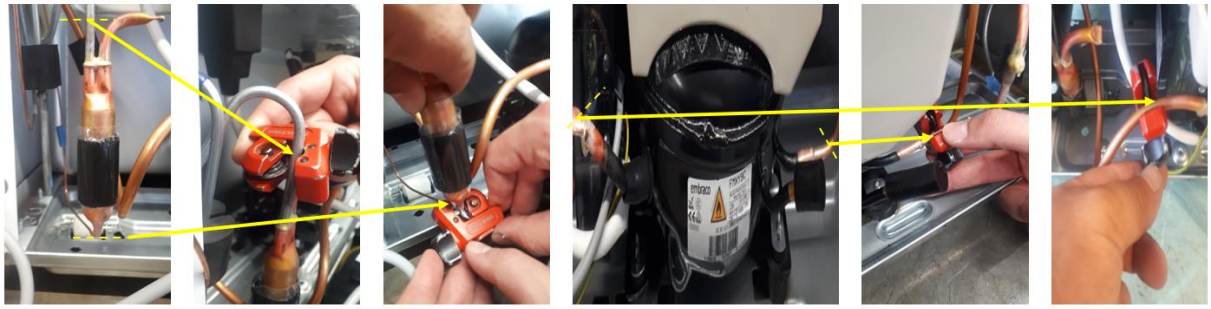
After the vapor container on the side is removed and the necessary operations are done, when it is desired to put it back in place, the immersion pipe is first placed into the steam container and then the screwing process is done. The tab on the bottom surface of the vapor container on the compressor is inserted into the tab slot on the upper surface of the compressor and the vapor container is placed on the compressor. (Picture 8)

COMPRESSOR

The compressor is an electrically powered system element that creates the pressure difference required for the fluid to rotate in the system by compressing the fluid. In this model, a fixed speed compressor is used and the operating conditions of the compressor are controlled by algorithm from the control card.

Before dismantling the compressor, unplug the refrigerator. All of the refrigerant in the system must be drawn from the system into an empty cylinder with the gas collection device. It is forbidden to release refrigerant into the environment as it is harmful to humans and nature. Then the vapor container and the terminal group must be removed respectively.
The suction and discharge pipes are then cut using a pipe cutter as shown in Pictures 9 and 10. As shown in Picture 11, the fixing parts on the compressor leg are shifted from "v" form to "I" form using pliers. The compressor is removed by lifting it upwards and then pulling it towards ourselves.

Picture 9: Pipes related to compressor and dryer



Picture 10: Cutting compressor and dryer pipes

Picture 11: Removing the compressor foot stabilizers

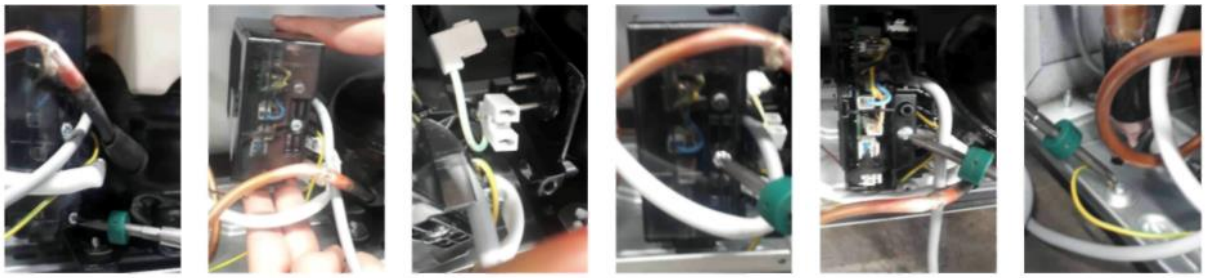
When installing the new compressor after the compressor change, the work done during dismantling is followed in reverse order. Finally, the new dryer is installed and the pipe connections are welded together.

TERMINAL GROUP

The terminal group, one of the electrical system elements, is in a plastic box as shown in Picture 12.

Picture 11: Inverter

Before starting to dismantle the terminal group, the action of unplugging the cabinet from the socket, which must be done before dismantling every electronic part, is performed. Once electrically safe, the screw connecting the compressor and the terminal group box is removed with a Phillips screwdriver. After removing the fastener, the sockets between the terminal group and the compressor are removed. The front cover of the terminal group box is removed. Then two more screws are removed and the sockets inside the terminal group are removed. Finally, the grounding cable on the rear leg is removed and the terminal group is completely removed from the bottom of the cabinet as shown in Picture 12.

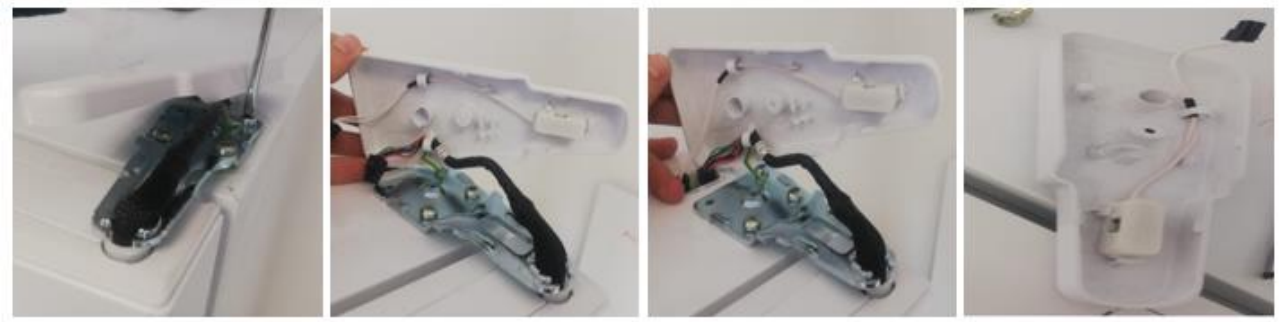


The screw between it and the compressor is unscrewed | The plastic box is slightly lifted up and pulled to the left | The sockets on the compressor are removed | The front cover of the plastic box is removed | All sockets inside the inverter are removed | Finally, the inverter is released by disconnecting the ground wire

Picture 12: Removing the inverter

MAGNETIC SENSOR CARD

The magnetic sensor board is serviced together with the sensor cover as a whole. It is located under the hinge cover. Firstly, the hinge cover is unscrewed with a screwdriver and removed by stretching. The reed switch magnetic group you will see under the cover is replaced as a whole.



CHANGING THE DOOR OPENING DIRECTION

The parts that will change the door opening direction will be provided by the service (International products include door left kit)

Required tools:

Screwdriver
Torx screwdriver
Number 13 wrench
Phillips screwdriver
Point end tool

REMOVE THE UPPER HINGE COVER

To remove the upper hinge cover, use a screwdriver to loosen the screw in the middle of the cover. Remove the cover from its seat by using a point end tool or a screwdriver.

REMOVE THE UPPER HINGE

The cable of upper hinge is removed. Then, the upper hinge is fixed to the product with three screws. Grounding cable is grouped into one of these three screws. The screws are removed with a torx screwdriver. *(indicated by blue arrow)* The upper hinge is lifted off (*indicated by blue arrow)* , then the cooler compartment door can be removed by pulling it

upwards.

REMOVE THE LOWER HINGE ASSEMBLY ON THE RIGHT

The lower hinge is unscrewed using a screwdriver (marked in yellow)

CHANGE THE PIN POSITION OF THE BOTTOM HINGE

Using the number 13 wrench, unscrew the hinge pin and screw it back in the reverse position (with white) as shown in the pictures (with yellow) below. The hinge can be used on both sides.

ATTACH THE HINGE THAT IS REMOVED FROM THE RIGHT SIDE TO THE LEFT SIDE

To fix the lower hinge assembly to the left side, use the screws used to fix the lower hinge assembly to the right side. A screwdriver is needed to fix the lower hinge to the left side.

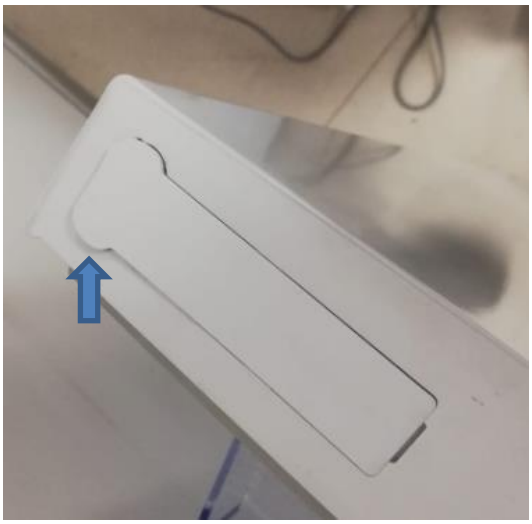
REMOVE THE LOWER HINGE BEARING OF THE FF COMPARTMENT DOOR

When necessary (changing the opening direction of the door, etc.), the lower hinge bearing can be removed with a screwdriver. As the first step, the door is rotated 180 degrees.

The upper hinge seat is removed with a screwdriver. The iron stopper grouped with star screw on the bearing is grouped to the left hinge bearing in the left kit group. The grouped left hinge bearing is then grouped to the door bottom cover.

REMOVE THE DOOR CABLE SLOT COVER

The upper hinge slot cover can be used on both sides. It is removed with a point end tool. The removed cover is replaced with the left cable slot cover in the left kit group at the bottom right.



INSTALL THE CABLE SLOT COVER ON THE OPENING SIDE

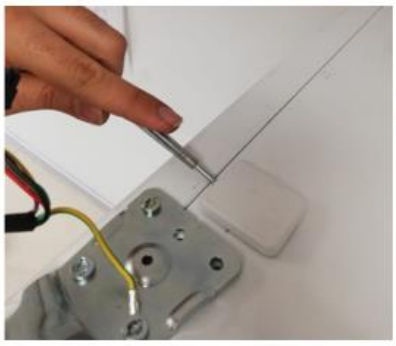
Using the cable slot cover in the left kit group, the cable on the opening side is taped into the slot and the cover is closed.

INSTALL THE DOOR

The door is fixed on the lower hinge.

REMOVE THE SOCKET COVER AND THE SCREW BEARING

The way the socket cover is removed is indicated in the pictures below.

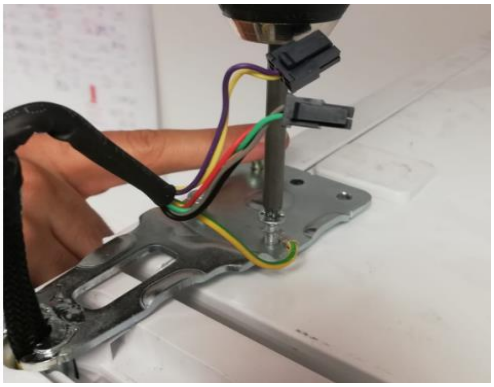


INSTALL THE SOCKET COVER AND THE SCREW BEARING

After the socket cover and screw bearing are removed, they are reattached to the opening side.

INSTALL THE UPPER HINGE AND THE DOOR

The upper hinge and hinge cover are mounted on the left side. The door direction change process is completed by installing the upper hinge cover.



Electronic Control Board

The UX10 control board is placed in the top sheet of the refrigerator, in a plastic box covered with a plastic card box and cover.