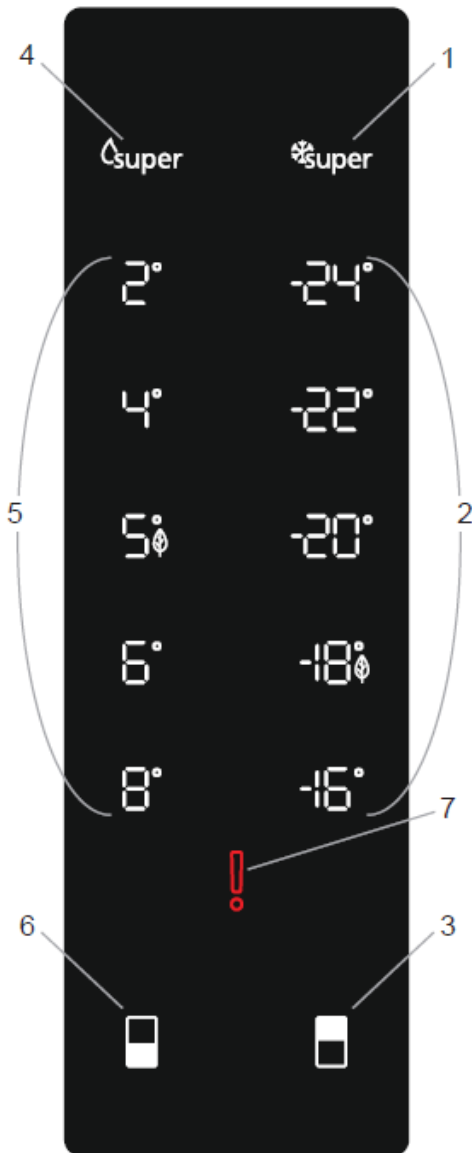


Control Panel



1. It is super freeze indicator.
2. It is freezer set value screen.
3. It enables the setting value of freezer to be modified and super freeze mode to be activated if desired. Freezer may be set to -16, eco, -20, -22, -24 °C and Super freeze.
4. It is super cooling indicator.
5. It is cooler set value screen.
6. It enables the setting value of cooler to be modified and super cool mode to be activated if desired. Cooler maybe set to 8, 6, eco, 4, 2 °C and super cool.
7. Sr alarm indicator.

Cooler Set Button

The cooler set button allows changes to be made to the temperature of the cooler compartment. Super cool and eco mode can also be activated using this button.

Freezer Set Button

The freezer set button allows changes to be made to the temperature of the freezer compartment. Super freezer and eco mode can also be activated using this button.

Sr Alarm

Sr alarm will change to red if any problems occur.



NO-FROST 543 ELECTRONIC - RIGA



Control Panel

Operating Your Fridge Freezer

Super Cool Mode

When would it be used?

- To cooling huge quantities of food.
- To cooling fast food.
- To cooling food quickly.
- To store seasonal food for a long time.

Activating Super Cool Mode

Push the cooler set button until the super cool symbol illuminates. The buzzer will sound twice and the mode will be set.

During Super Cool Mode

Super cool mode can be cancelled in the same way it is selected.

Super Freeze Mode

When would it be used?

- To freeze a large quantity of food that cannot fit on the fast freeze shelf.
- To freeze prepared foods.
- To freeze fresh food quickly to retain freshness.

Activating Super Freeze Mode

Push the freezer set button until the super freez symbol illuminates. The buzzer will sound twice and the mode will be set.

During Super Freeze Mode

Super freez mode can be cancelled in the same way it is selected.

Activating Economy Mode

Cooler compartment

- Press the cooler set button until the economy symbol illuminates.
- If no button is pressed for 1 second the mode will be set and the buzzer will sound twice as confirmaiton.
- To cancel, press the cooler set button.

Freezer compartment

- Press the freezer set button until the economy symbol illuminates.
- If no button is pressed for 1 second the mode will be set and the buzzer will sound twice as confirmaiton.
- To cancel, press the freezer set button.



NO-FROST 543 ELECTRONIC - RIGA



Control Panel

Screen Saver Mode

Purpose

This mode saves energy by switching off all control panel lighting when the panel is left inactive.

How to Use

- Screen saver mode will be activated automatically after 30 seconds.
- If you press any key while the lighting of the control panel is off, the current machine settings will reappear on the display to let you make any change you wish.
- If you do not cancel the screen saving mode or press any key for 30 seconds, control panel will remain off.

To deactivate the screen saving mode,

- To cancel the screen saving mode, first of all, you need to press any key to activate the keys and then press and hold the freezer set button for 5 seconds.
- To reactivate screen saving mode, press and hold the freezer set button for 5 seconds.

Cooler Temperature Settings

- Press the cooler set button once.
- When you first press the button, the previous value will appear on the setting indicator of the cooler.
- Whenever you press this button, a lower temperature will be set (+8 °C, +6 °C, eco, +4 °C, +2 °C, or super cool).
- If you press the cooler set button until the super cool symbol appears on the cooler setting indicator, and do not press any buttons for 3 second, super cool will flash.
- If you continue to press the same button, it will restart from +8 °C.

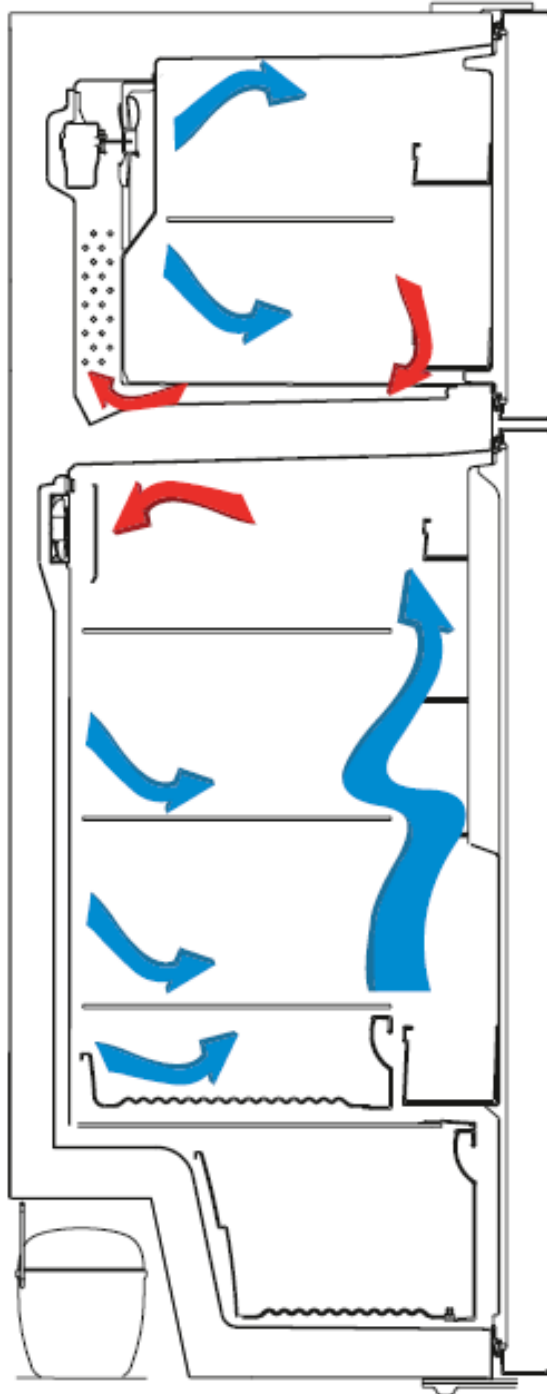
Freezer Temperature Settings

- Press the freezer set button once.
- When you first press the button, the previous value will appear on the setting indicator of the freezer.
- Whenever you press this button, a lower temperature will be set (-16 °C, eco, -20 °C, -22 °C, -24 °C, or super freez).
- If you press the freezer set button until the super freez symbol appears on the freezer setting indicator, and do not press any buttons for 3 second, super freezer will flash.
- If you continue to press the same button, it will restart from -16 °C.

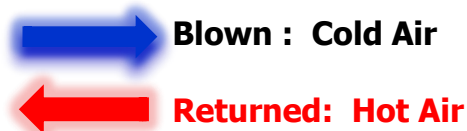
Door Open Alarm Function

If fridge door is opened more than 2 minutes, appliance sounds 'beep beep'.

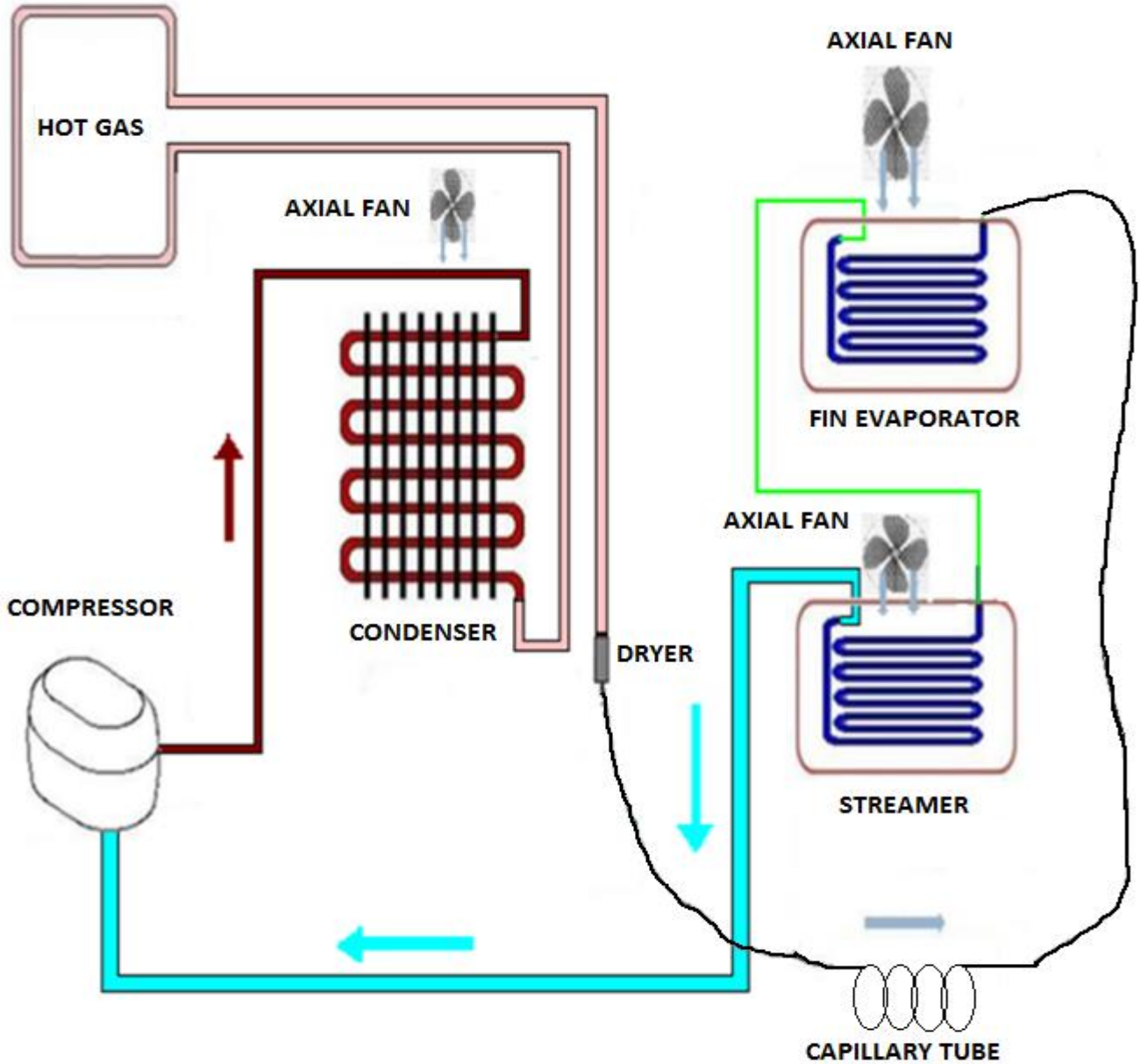
Air Flow Diagram



Cutaway view: Air Flow Direction



Air Flow Diagram



The freezer fan motor and the condenser fan motor work parallel time with the compressor. The freezer fan motor works when the freezer compartment door is opened. It is normal.

The cooler fan motor works parallel time with the compressor. However it could work while the compressor is stopped or the cooler is defrosting.

Freezer Defrosting Time

The Defrost is disabled when the defrost sensor temperature feels 8°C. If defrost time passes 37 minutes, defrost completing temperature will be rise to 15°C.

Cooler Defrosting Time

The cooler defrost and the freezer defrost are operated parallel except those below. The cooler defrost will not work if the freezer defrost stops.

The defrost process stops when the defrost sensor temperature feels 7°C. At the low ambient temperature or when the compressor stops; to balance, defrost stops when the defrost sensor temperature feels 15°C. But if the defrost time or the compressor stopping time goes over 6 hours, the resistance will be stopped.

Compressor delay: First, the defrost process ends, the system waits 5 minutes, just after that the compressor is active.

In Case of Power Cut

- All regulated parameters and functions are kept in memory when the power cut.

Other Features

Warnings : The door open warning is active 2 minutes later and it alarms.

Door Direction : It is possible to reverse the door.

Gasket : It is possible to change the gasket.

Used Component

• Fin Evaporator Resistance	230V/150W
• Evaporating Tray Resistance	230V/32W (Drain Heater)
• Thermal Fuse	72 °C
• Cooler Defrost Resistance	230V/10W
• Cooler Fan Motor	DC 12V
• Evaporator Fan Motor	AC 230 V 50 Hz
• Cabin Bottom Fan Motor	AC 220 - 240 V 50 Hz
• Mainboard (Power Card)	VESTEL ELECTRONIC
• Thermostat Card	VESTEL ELECTRONIC
• Freezer Defrost Sensor	EPCOS - VISHAY
• Cooler Defrost Sensor	EPCOS (it is not possible to change in the body)
• Cooler Sensor	EPCOS - VISHAY
• LED Illumination	4.8W

Resistance Values According To The Temperature Sensor (°C/Ohm Rates) (For The Freezer Defrost and The Cooler Ambient Sensor)

45 °C/1kΩ	-1 °C/6.2kΩ
35 °C/1.5kΩ	-3 °C/6.8kΩ
30 °C/1.8kΩ	-5 °C/7.5kΩ
25 °C/2.2kΩ	-7 °C/8.2kΩ
19 °C/2.7kΩ	-12 °C/10kΩ
14 °C/3.3kΩ	-15 °C/12kΩ
10 °C/3.9kΩ	-20 °C/15kΩ
5.5 °C/4.7kΩ	-24 °C/18kΩ
1.5 °C/5.6kΩ	-31.5 °C/27kΩ
0 °C/6kΩ	-35.5 °C/33kΩ

Sensor Resistance Values According To The Temperature (°C/Ohm Rates) (For The Cooler Defrost Sensor)

45 °C/2.15kΩ	-1 °C/17.1kΩ
35 °C/3.26kΩ	-3 °C/19kΩ
30 °C/4.02kΩ	-5 °C/21.1kΩ
25 °C/5kΩ	-7 °C/23.5kΩ
19 °C/6.53kΩ	-12 °C/30.8kΩ
14 °C/8.23kΩ	-15 °C/36.5kΩ
10 °C/9.95kΩ	-20 °C/48.6kΩ
5.5 °C/12.3kΩ	-24 °C/61.5kΩ
1.5 °C/15kΩ	-31.5 °C/98kΩ
0 °C/16.3kΩ	-35.5 °C/12.6kΩ



NO-FROST 543 ELECTRONIC - RIGA



Service Mode

Entering service mode :

- Select «8» set value then press the cooler set button 10 seconds.
- If there is a faulty situation, error code will be observed on screen. Otherwise nothing will be on the screen.
- Buzzer will sound beep for 0.1 sec. each 5 sec. during service mode.
- SR icon will light continuously.
- Service function could be activated by pushing «Cooler Set» button

SERVICE FUNCTION	
PUSHING COOLER SET BUTTON ONE TIME.	STARTING MODE
	«8» value will select.
	STARTING LIST “-16” drain heater “eco” DC Radial Fan motor “-20” Refrigerator Defrost Heater (RDS) “-22” Ionizer / UPT “-24” R&Su heater “8” Middle Bracket heater “6” Evap Defrost heater “5” Evap fan motor “4” Condenser fan motor “2” Compressor
	The number of components which is controlled is shown on display. Icon goes off when the starting test finishes and then display returns to service mode.
PUSHING COOLER SET BUTTON TWO TIMES.	MANUAL DEFROST
	«6» value will select.
	Defrost mode is started after third step. Defrost might be finished manually or automatically.
	Defrost might be finished manually by using the cooling set button. Icon goes off and display returns to service mode.
	Automatic defrost operates according to the standard defrost time.



NO-FROST 543 ELECTRONIC - RIGA

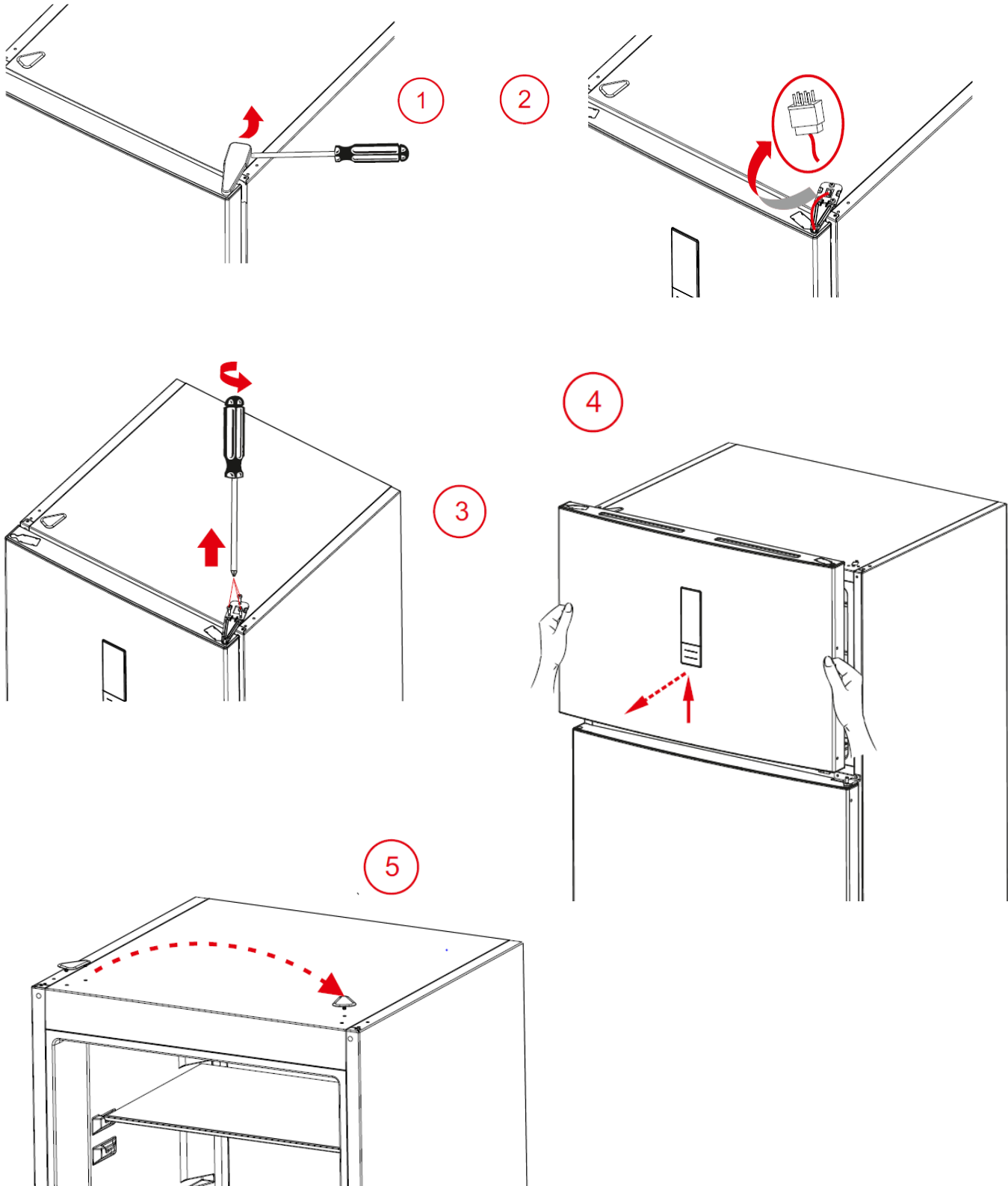


User and Service Mode Error Message

To cancel Service Mode : You can use same method as entering the Service Mode.

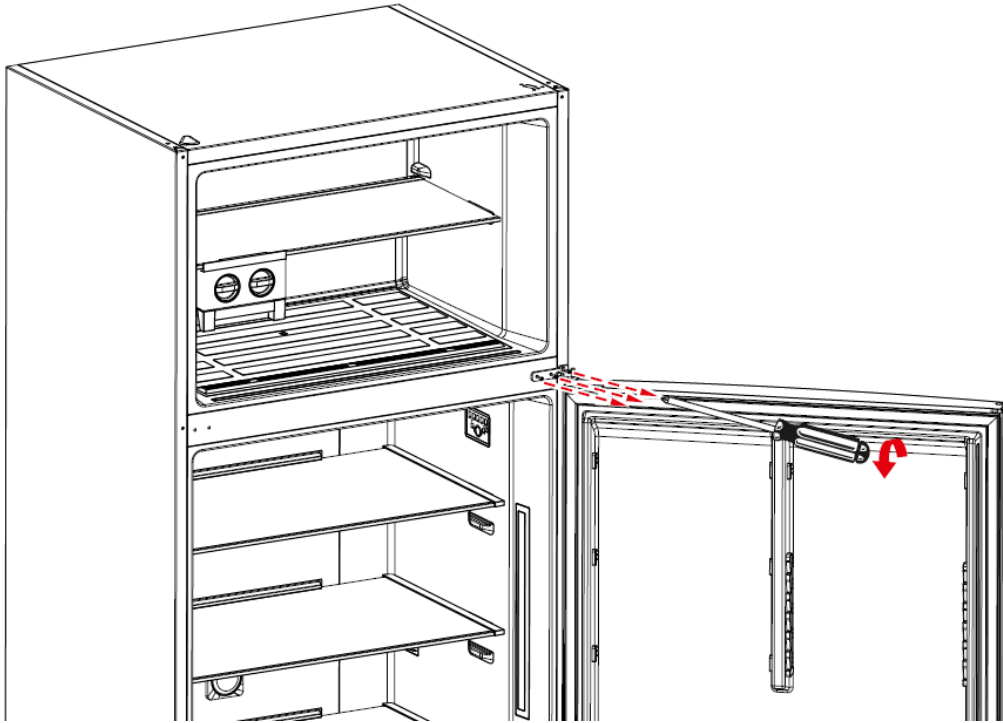
DEFECT TYPE	SERVICE MODE REACTION
FREEZER SENSOR OPEN/SHORT CIRCUIT	8 Led will light
COOLER SENSOR OPEN/SHORT CIRCUIT	6 Led will light
DEFROST SENSOR OPEN/SHORT CIRCUIT	5 Led will light
AMBIENT SENSOR OPEN/SHORT CIRCUIT	4 Led will light
RDS SENSOR OPEN/SHORT CIRCUIT	2 Led will light
COMRPESSOR DEFECT	-24 Led will light
DEFROST HEATER DEFECT	-22 Led will light
LOW COOL	-18 Led will light
HIGH COOL	-16 Led will light
LOW FREEZE	-20 Led will light

Reversing the door

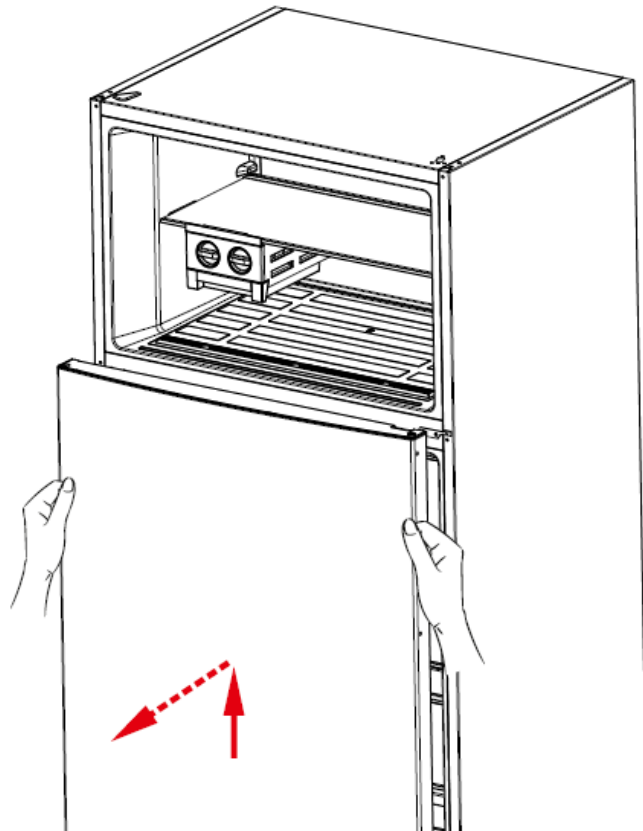


Reversing the door

6

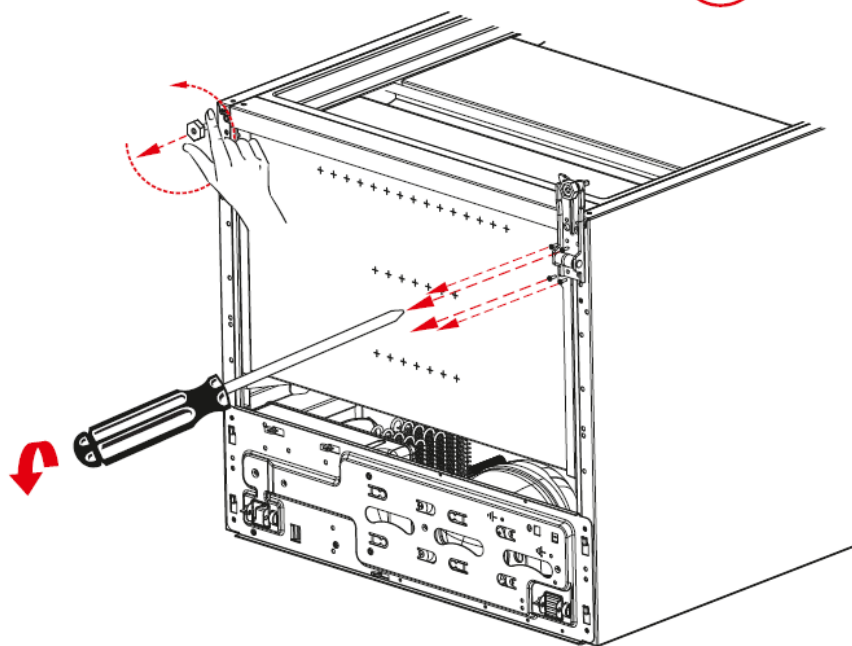


7



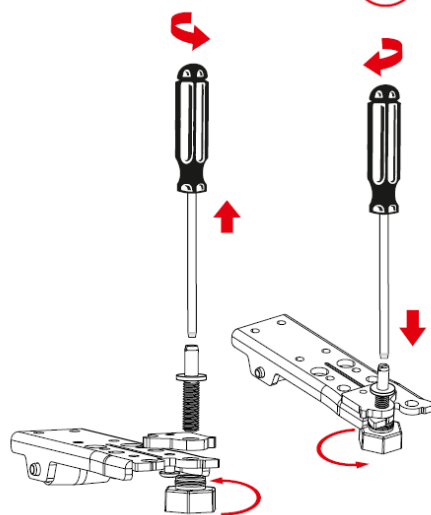
Reversing the door

8

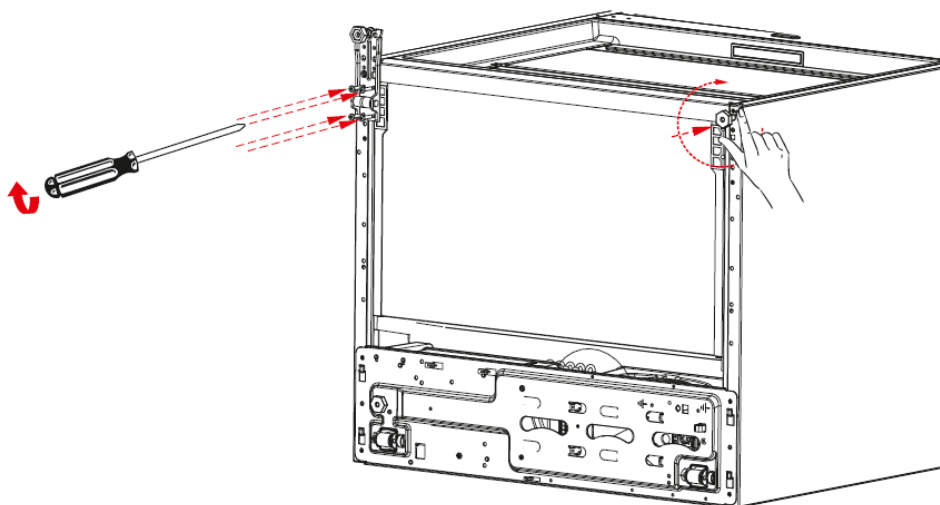


9a

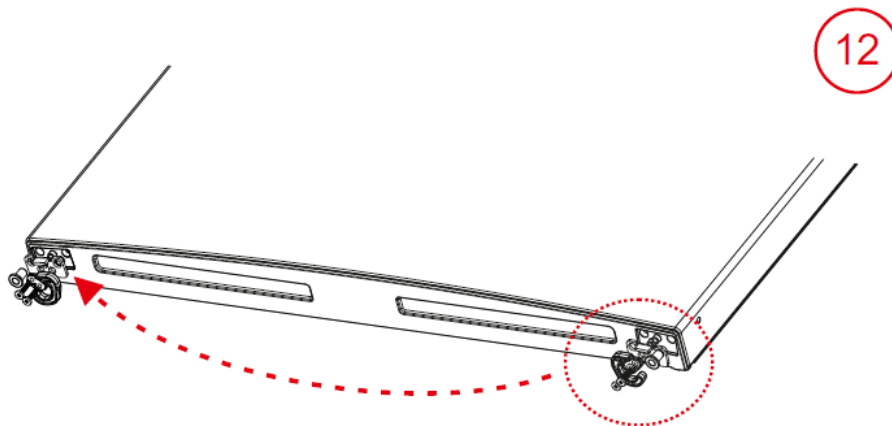
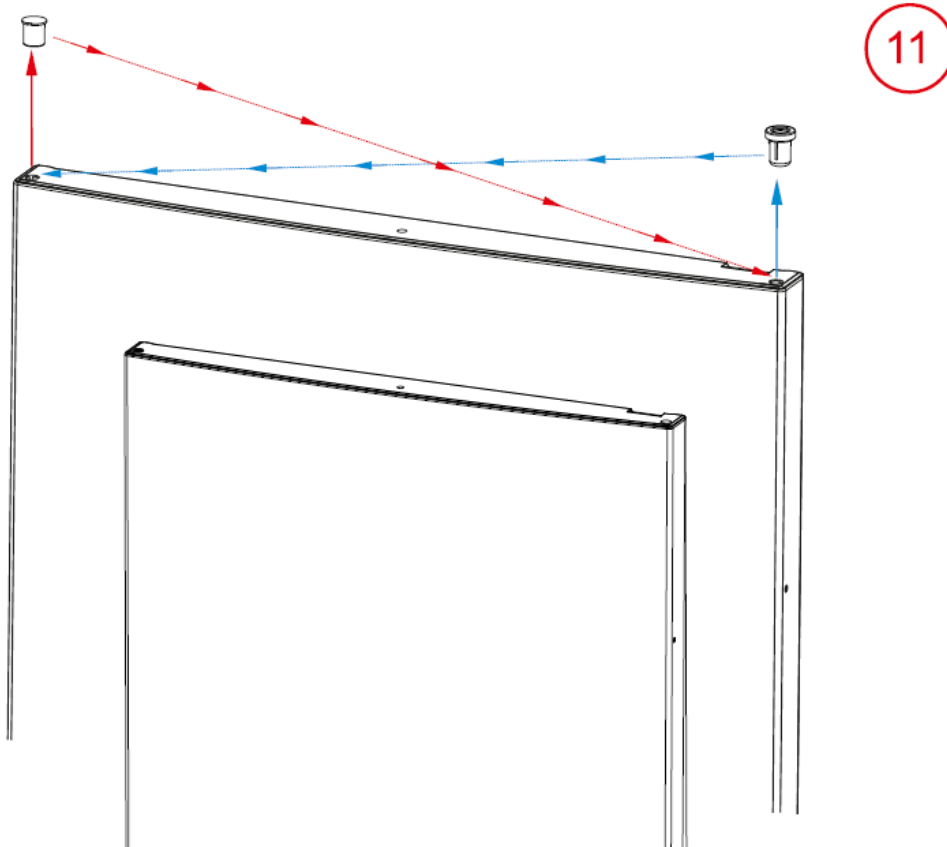
9b



10

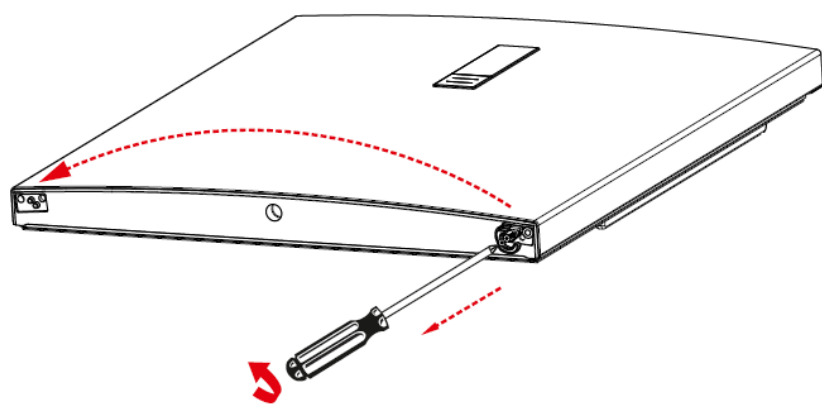


Reversing the door

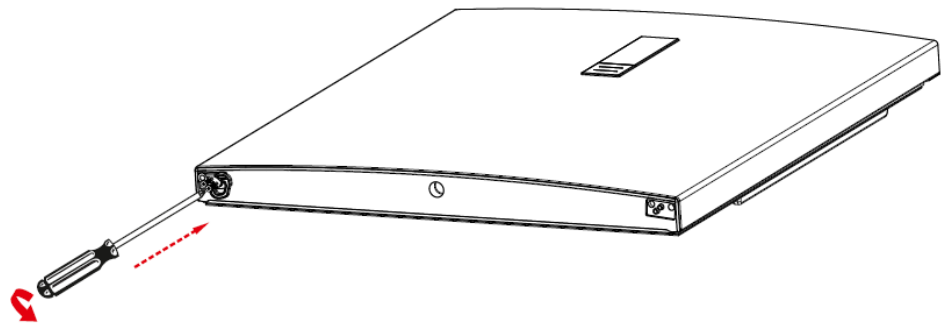


Reversing the door

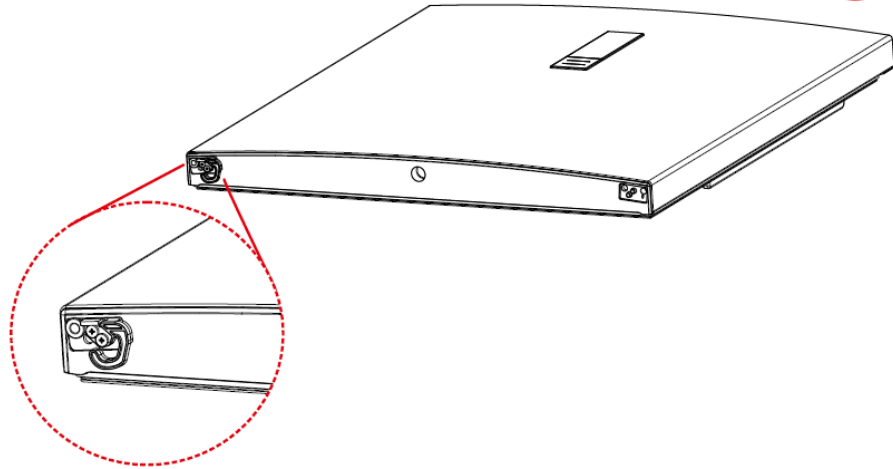
13



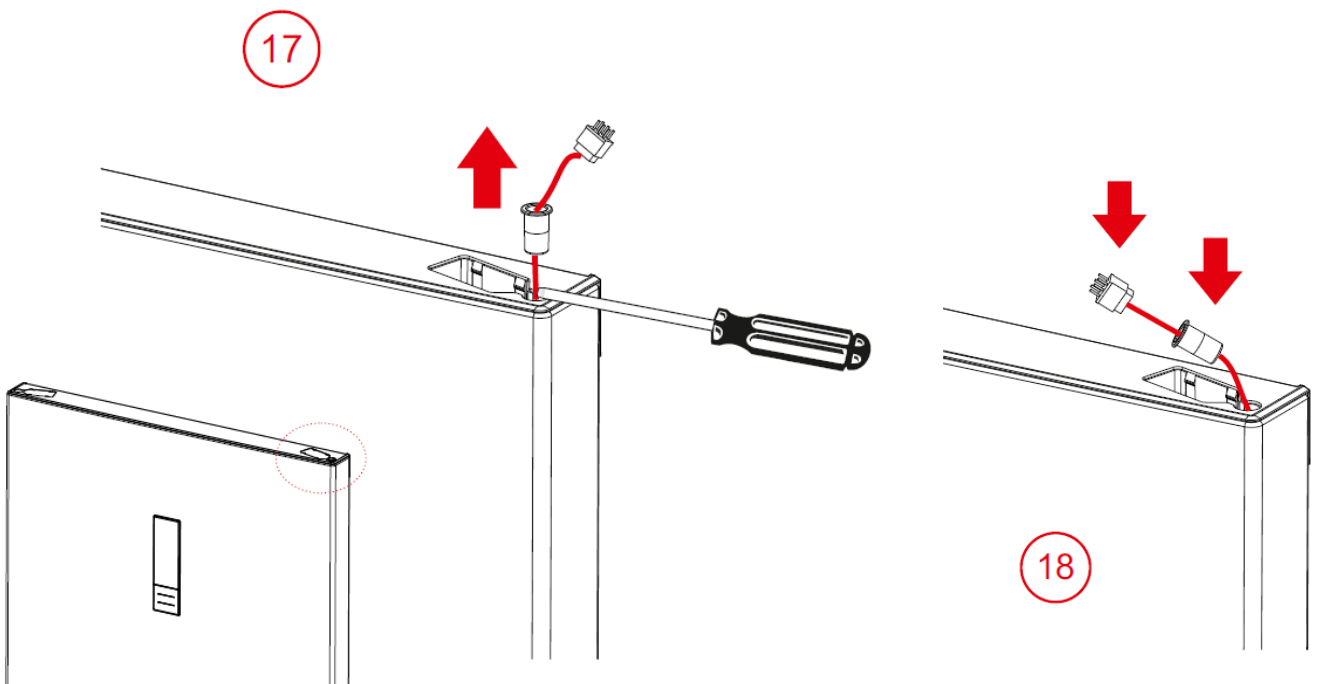
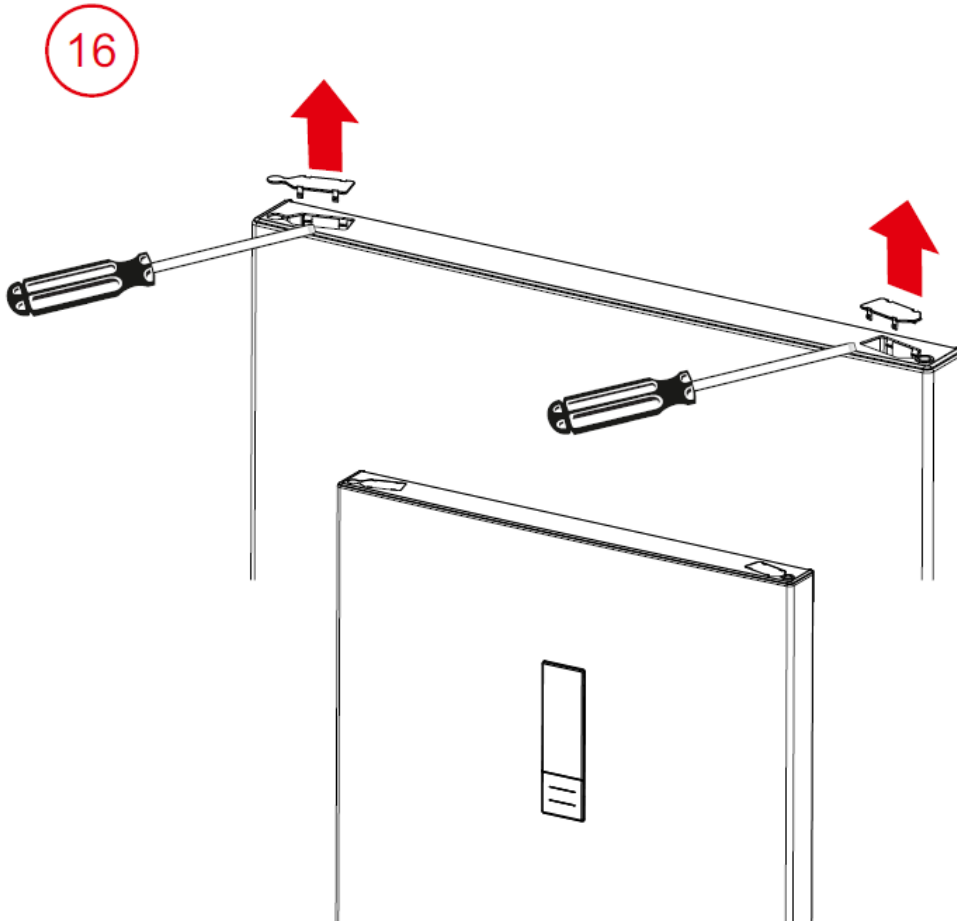
14



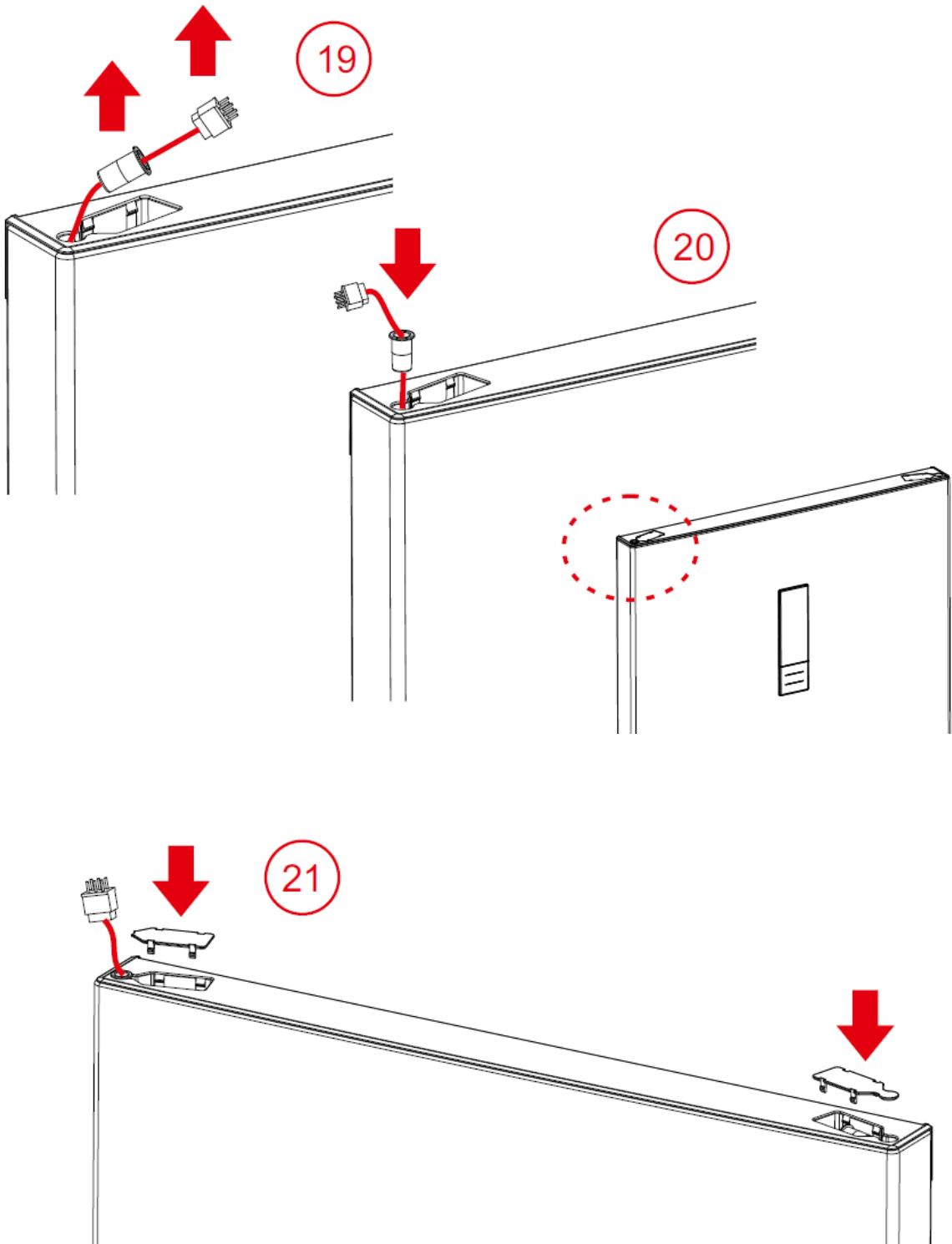
15



Reversing the door

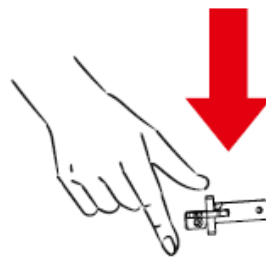
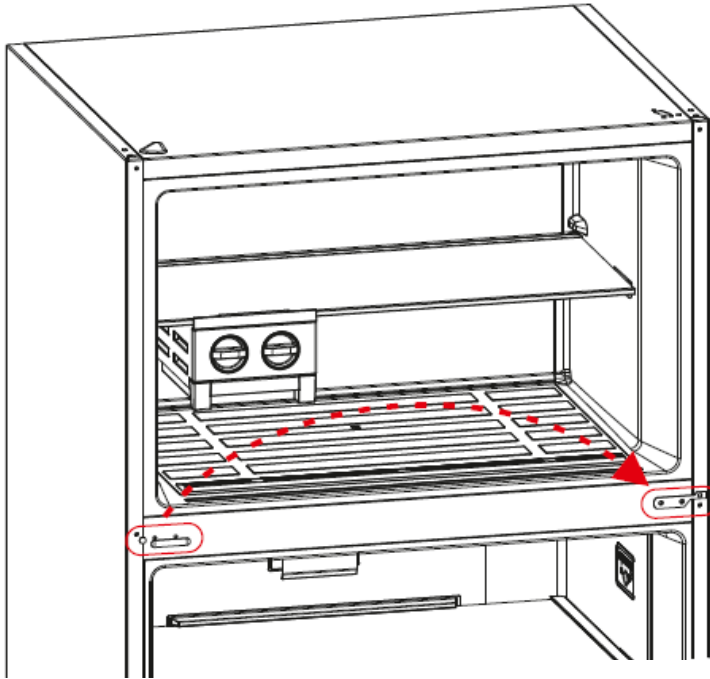


Reversing the door

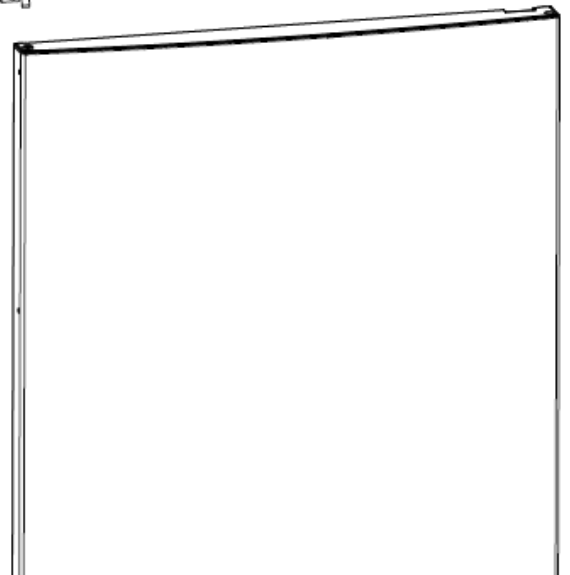


Reversing the door

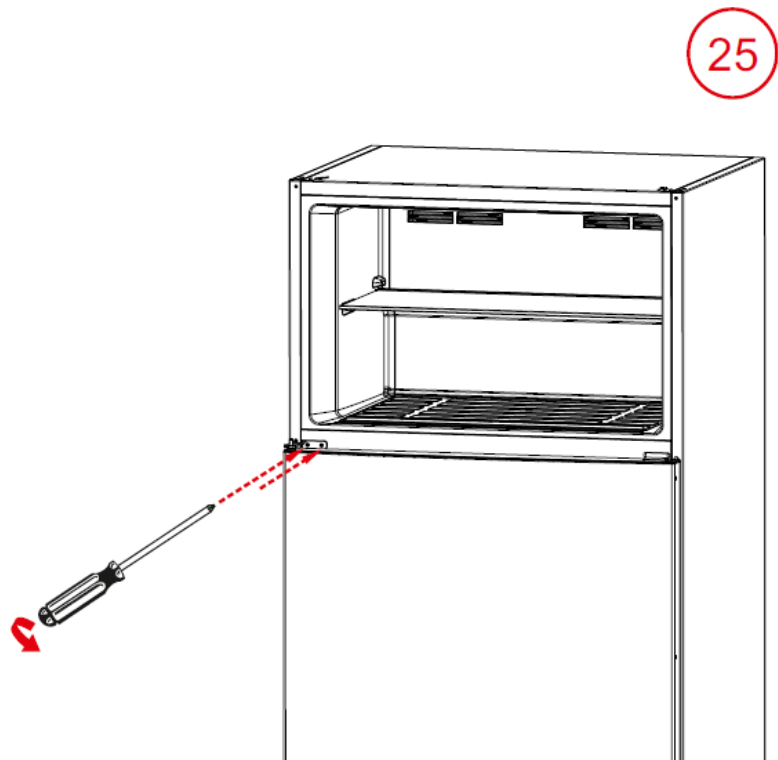
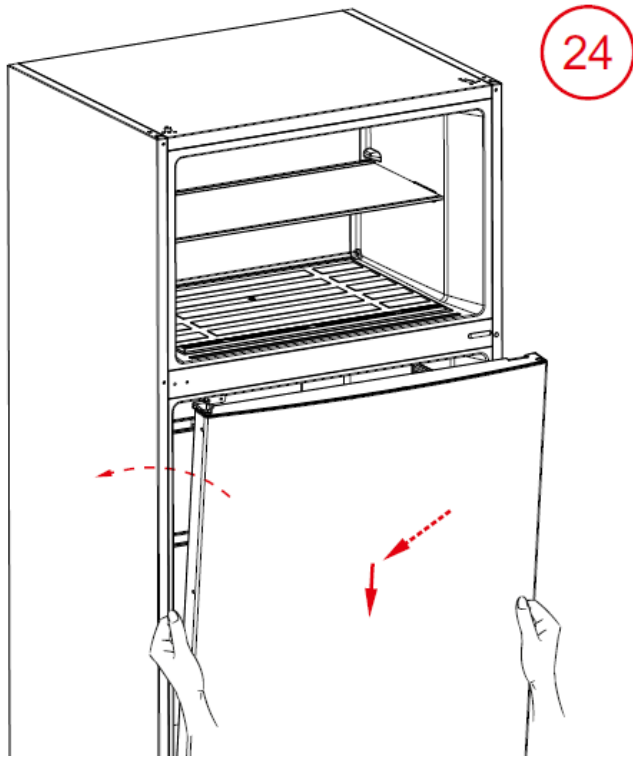
22



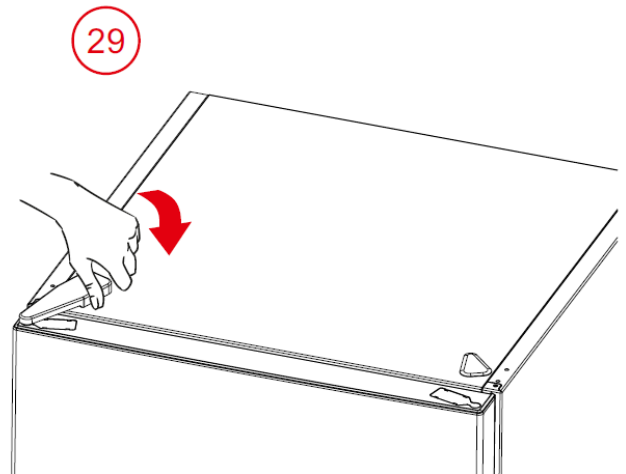
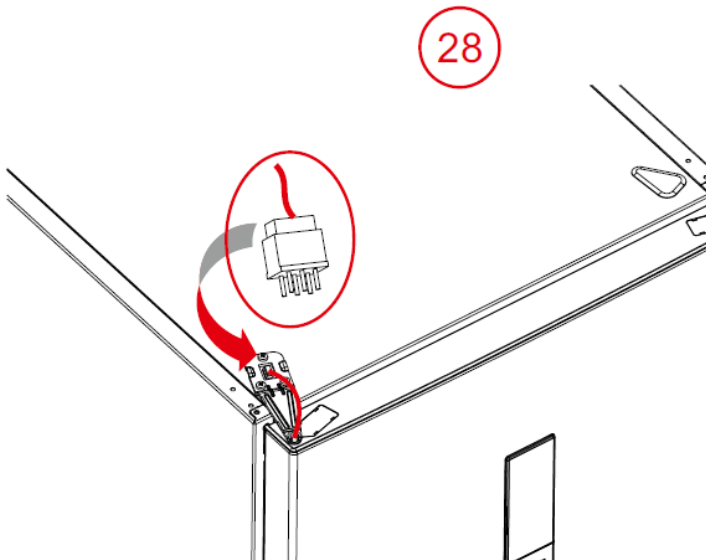
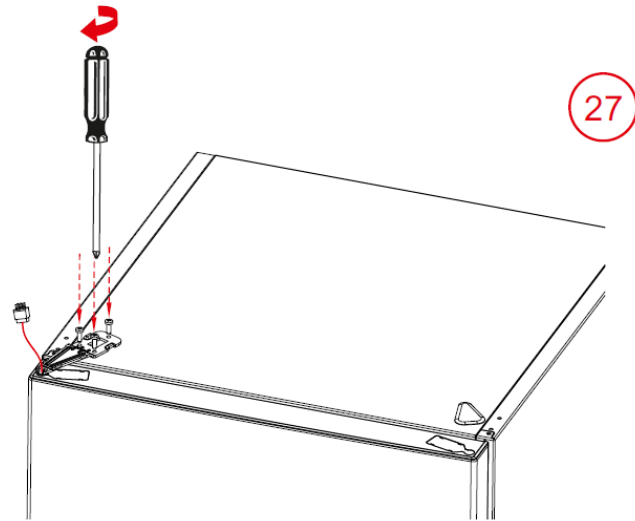
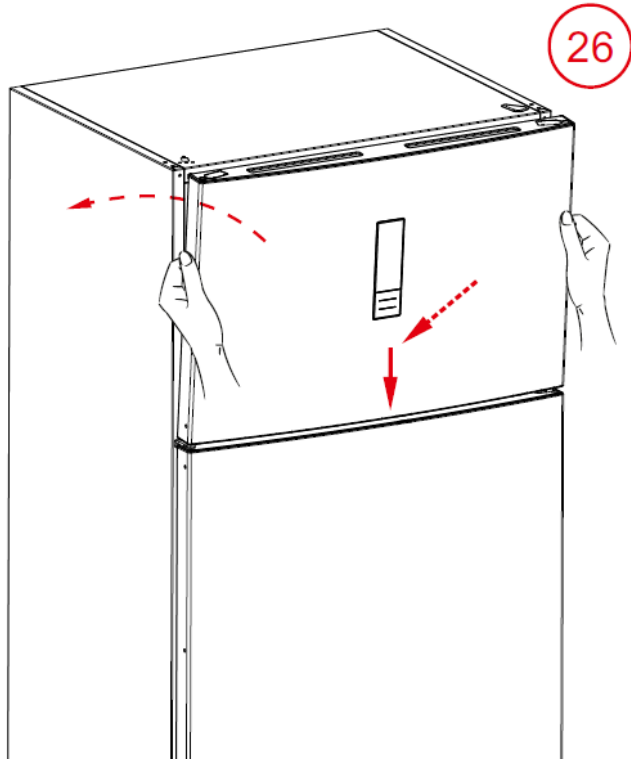
23



Reversing the door



Reversing the door



⚠ CAUTION: The plug must be pulled out before the display is removed.

1. Display can be removed with the disassembly tool. Do not use any sharp objects to remove the display.
2. Disassembly tool code is **42152193** (Pic-1)



Picture-1

3. Place and fix the disassembly tool on to display and pull to take out the display. (Pic-2)



Picture-2

4. Take out the display cable socket. (Pic-3)



Picture-3

CAUTION: The plug must be pulled out before the mainboard group is removed.

1. Unscrew the three screws which are fixing the mainboard cover by using the screwdriver. (Pic-1 / Pic-2 / Pic-3)
2. Remove the cover after the screws are removed.(Pic-4)

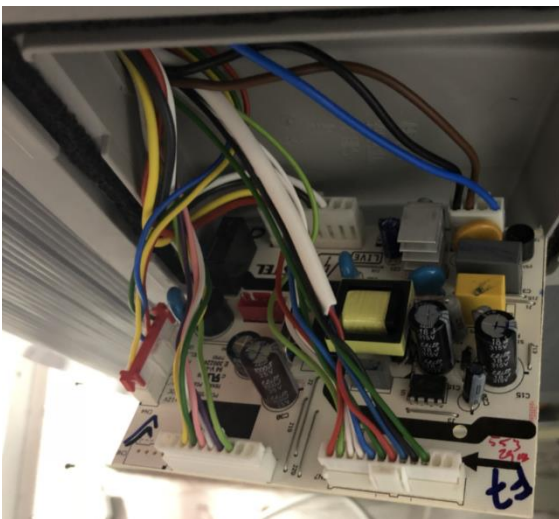


Picture-1

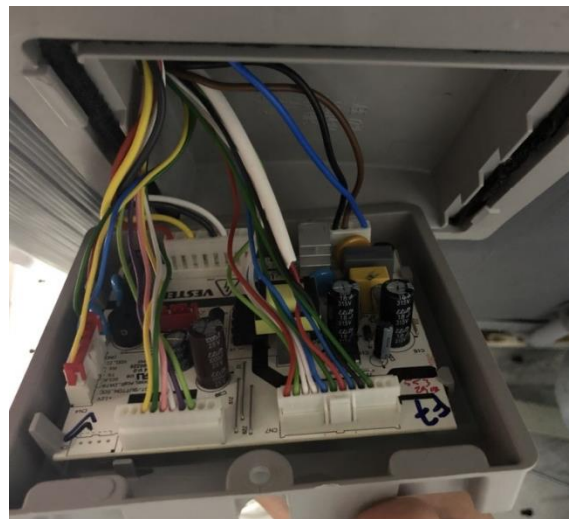


Picture-2

3. Pull the mainboard slightly forward and disconnect all the connectors and then replace it. Finally, place the mainboard cover and screw it.



Picture-3



Picture-4

Removing The Cooler Multi Flow

1. Remove the cooler glass shelves and the chiller. (Pic-1)



Picture-1

2. Stick one tape to each air duct to avoid scratching. Remove the screw caps by using a flat screwdriver and screw the screws. (Pic-2.1/Pic-2.2)



Picture-2.1



Picture-2.2

3. Flex the multi flow by holding the fan cover and remove it. Disconnect the connector after removing the multi flow. (Pic-3)



Picture-3

1. Remove the fan cover by flexing the fan cover detail and then remove the fan motor by flexing the fan motor rubbers. (Pic-1/ Pic-2/Pic-3)



Picture-1



Picture-2



Picture-3

2. Place the rubbers to the fan motor. After that, first place the bottom two details of the fan motor and place the top two details by pressing-flexing it. (Pic-4/ Pic-5/Pic-6)

Note : *The fan motor cable outlet should be at the top-left corner of it.*

3. After the connector is connected, place it by flexing it and then reassemble the multi flow by screwing.



Picture-4



Picture-5



Picture-6

Changing The Cooler Sensor

Remove the sensor cover with the help of a screwdriver and then disconnect the sensor connector.

Place the bottom-front details of the cover to its housing and then place the top cover detail to the housing by flexing it with a screwdriver.



CAUTION: Pay attention not to damage to the sensor cover details!

1. Displace the glass shelf or the ice box group if there is. (Pic-1)
2. Insert a flat screwdriver into the gap and then support the lateral surface of the multi flow with the help of a hand and remove the freezer multi flow group. (Pic-2)
3. Removing the freezer bottom cover. (Pic-3)



Picture-1



Picture-2



Picture-3

Assembling The Freezer Multi Flow Group

1. Recline the bottom cover against one side and place the freezer multi flow cover details. (Pic-4)
2. Hold the back side of the bottom cover and flex it. After that, reassemble the other side details. Finish the assembly by pulling the cover. (Pic-5 / Pic-6)
3. First, place the freezer multi flow details to the backside of the bottom cover (Pic-7/Pic-8) and reassemble the freezer multi flow cover by pushing back. (Pic-9)

Note: The freezer multi flow should be removed before the freezer bottom cover.



Picture-4



Picture-5



Picture-6



Picture-7



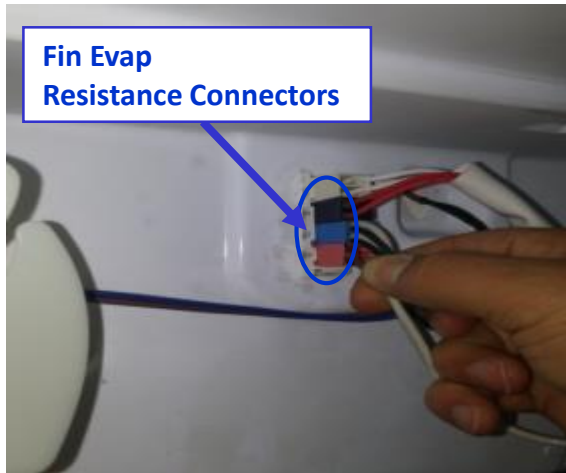
Picture-8



Picture-9

Removing Fin Evaporator Group

1. Remove the fin evaporator resistance connectors from the sockets. (Pic-1)
(blue connector)



Picture-1

2. Displace the fin evaporator balanced by holding on both sides. (Pic-2)

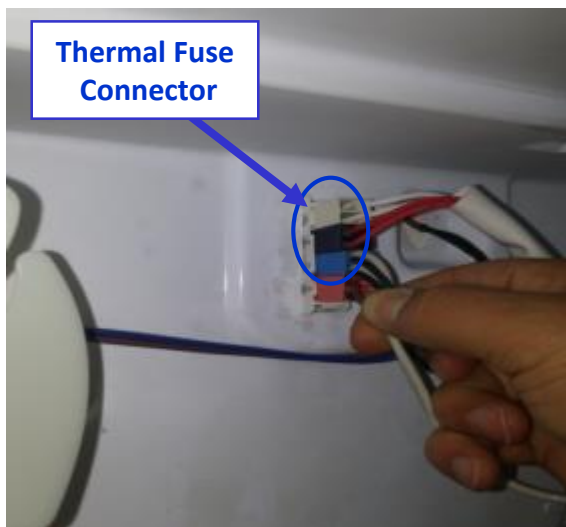


Picture-2

CAUTION: The fin evaporator should not be pulled upward-downward. Otherwise, the fin evaporator fixing plastics might be broken.

Removing The Thermal Fuse

1. Remove the thermal fuse connector. (Pic-1) (white-black connector)



Picture-1

2. Thermal fuse has two details. These details hold on to the pipe. It could be removed easily. (Pic-2)



Picture-2

Removing The Freezer Fan Motor

1. Remove the fan motor connector. (Pic-1)
2. Unscrew the fan motor fixing screws and displace the fan motor. (Pic-2)
3. Remove the propeller. (Pic-3)



Picture-1



Picture-2



Picture-3

4. Displace the details on the fan motor box. (Pic-4)



Picture-4



Fan Motor Components

1. Unscrew the bottom tray screws and displace it from the compressor basement. After that, remove the fan motor connector. (Pic-1)
2. Unscrew the screws fixing the evaporating tray. (Pic-2)
3. Remove the evaporating tray to displace the fan motor. (Pic-3)



Picture-1



Picture-2



Picture-3

4. Unscrew the fan motor screws. (Pic-4)
5. Remove the propeller. (Pic-5,Pic-6)



Picture-4



Picture-5



Picture-6

Removing/Assembling The Reed Switch

Take the reed switch out of its place with a screwdriver. Then Disconnect the connectors of the Switch and remove it.



Cabinet



Top door

NOTE: Reed Switch is a very sensitive miniature electronic card. So during the assembly and disassembly be careful not to damage it.

During the disassembly of the reed switch, there is a step on the edge of the plastic part which provides easier disassembly and by that tool it can be taken out from the same place every time.

It must be assembled as this step should be in the invisible (inside of the refrigerator) part. Otherwise the distance which the lamp turns on/off may change.

After the assembly or replacement the service should check if the reed switch is damaged by giving energy and opening and closing the door.

Barcode and Serial Number Explanation:

Vestel refrigerator serial numbers are consist of 22 digits.

