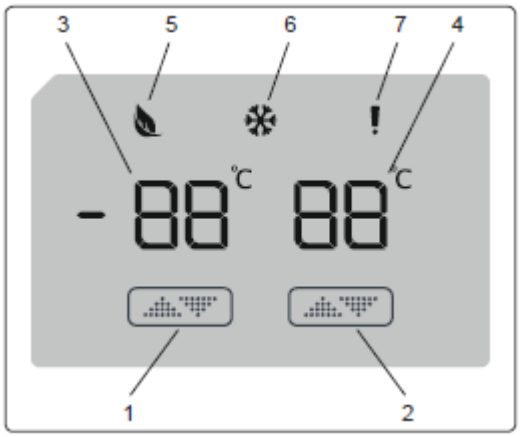
VESTEL WHITE GOODS	NO-FROST 543 INNER DISPLAY Temperature Setting (Double Control)	CUSTOMER SUPPORT



Using the Control Panel

1. Enables the setting of the freezer to be modified and super freeze mode to be activated if desired.
2. Enables the setting of the cooler to be modified and super cool mode to be activated if desired.
3. Freezer set value screen.
4. Cooler set value screen.
5. Economy mode symbol.
6. Super freeze symbol.
7. Alarm symbol.

1.2 Operating your Fridge Freezer

Once you have plugged in the product, all symbols will be displayed for 2 seconds and the initial values will be shown as -18 °C on the freezer adjustment indicator, and +4 °C on the fridge adjustment indicator.

1.2.1 Freezer Temperature Settings

• The initial temperature value for the freezer setting indicator is -18 °C.
• Press the freezer set button once.
When you first press the button, the previous value will blink on the screen.
• Whenever you press the same button, a lower temperature will be set (-16 °C, -18 °C, -20 °C, -22 °C or -24 °C).
• If you continue to press the button, it will restart from -16 °C.

NOTE: Eco mode gets activated automatically when the temperature of the freezer compartment is set to -18°C.

1.2.2 Cooler Temperature Settings

• The initial temperature value for the cooler setting indicator is +4 °C.
• Press the cooler button once.
• Whenever you press the button, a lower temperature will be set (+8 °C, +6 °C, +5 °C, +4 °C, or +2 °C).
• If you continue to press the button, it will restart from +8 °C.

1.2.3 Super Freeze Mode

Purpose

• 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.

How to use

To enable the super freeze mode, press and hold the freezer temperature setting button for 3 seconds. Once the super freeze mode has been set, the super freeze symbol on the indicator will be lit and the machine will beep to confirm the mode has been switched on.

During Super Freeze Mode:

• The temperature of the Cooler may be adjusted. In this case, Super Freeze mode will continue.
• Economy mode cannot be selected.
• Super Freeze mode can be cancelled in the same way it is selected.

Notes:

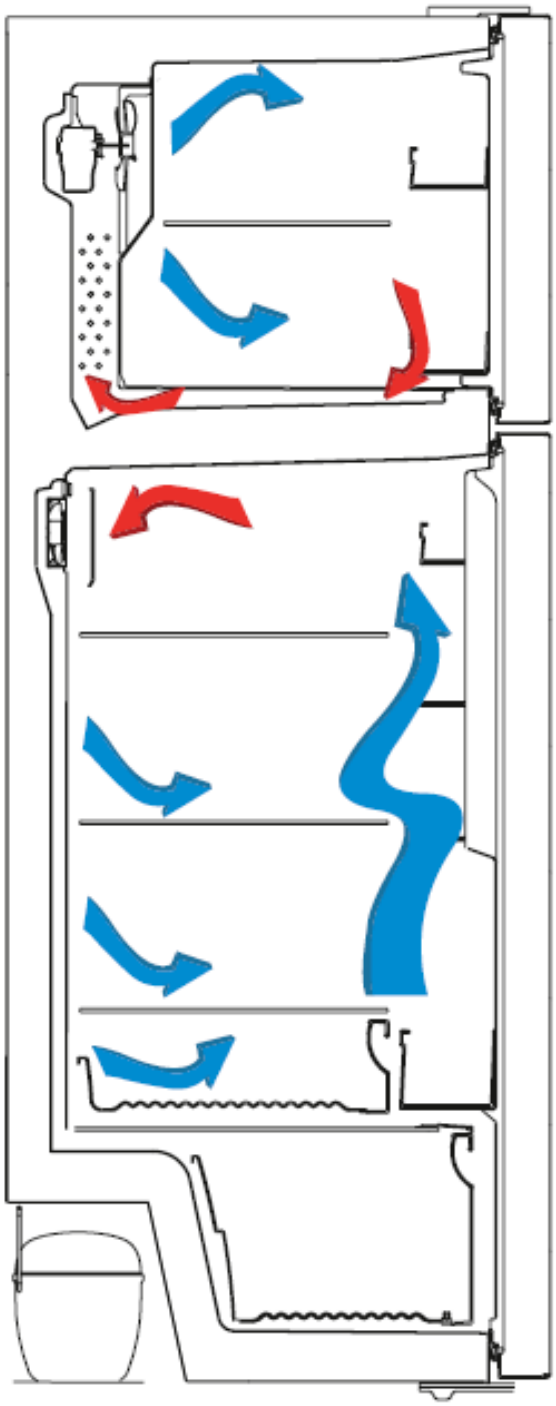
• The maximum amount of fresh food (in kilograms) that can be frozen within 24 hours is shown on the appliance label.
• For optimal appliance performance in maximum freezer capacity, activate super freeze mode 3 hours before you put fresh food into the freezer.

Super freeze mode will automatically cancel after 24 hours or when the freezer sensor temperature drops below -32 °C.

Freezer Compartment	Cooler Compartment	Remarks
-18 °C	4 °C	For regular use and best performance.
-20 °C, -22 °C or -24 °C	4 °C	Recommended when environmental temperature exceeds 30 °C.
Super Freeze mode	4 °C	Must be used when you wish to freeze food in a short period of time.
-18 °C, -20 °C, -22 °C or -24 °C	2 °C	These temperature settings must be used when the environmental temperature is high or if you think the refrigerator compartment is not cool enough becuse the door is being opened frequently.

Demo mode:

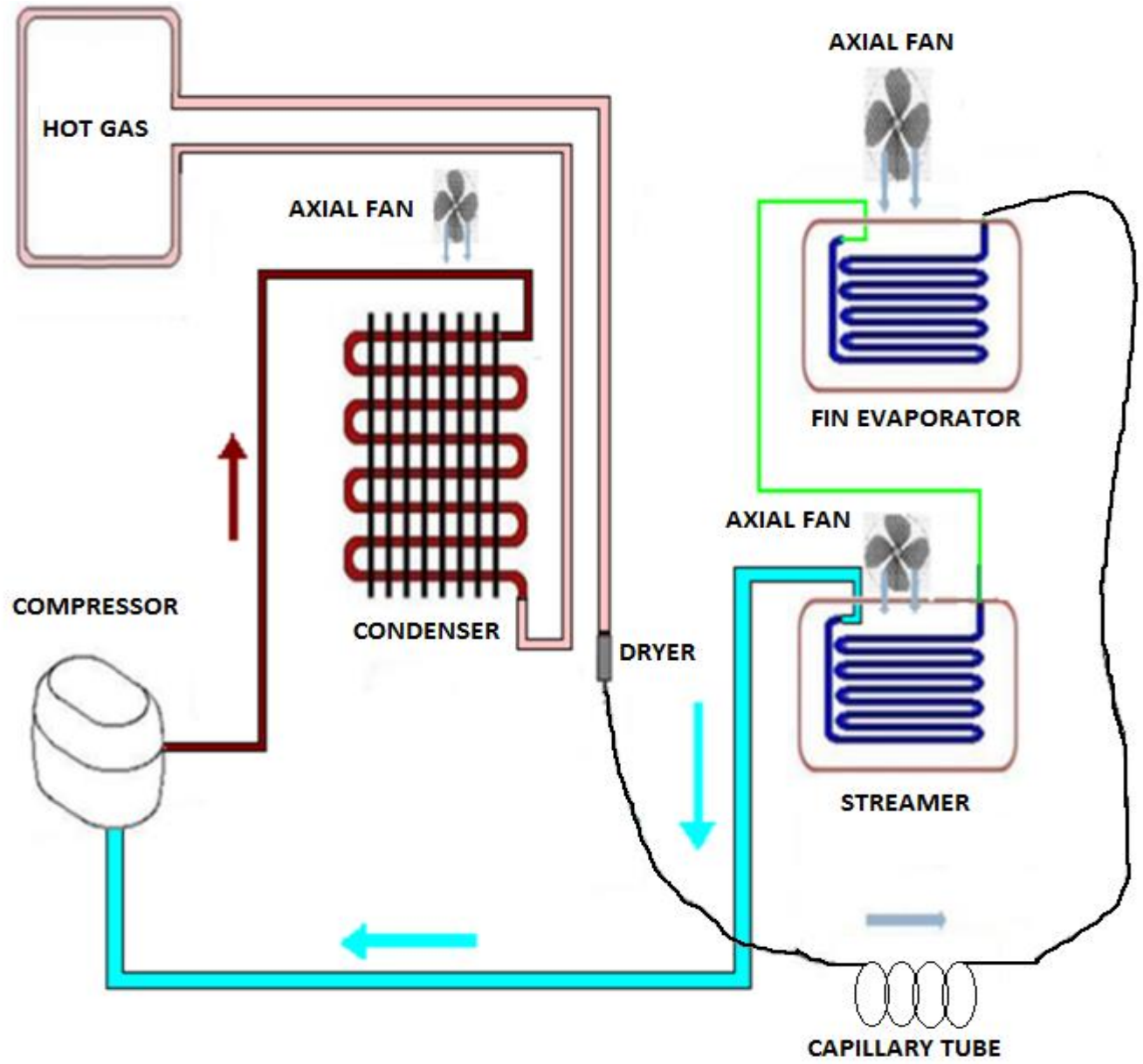
Firstly the power is on, secondly within 1 minute user have to set the cooler 2 and push cooler temperature button for 10 seconds. Then economy, super and economy sembol will blink during the service mode. All functions can be adjusted to show how they are adjusted to the customer.



Cutaway view: Air Flow Direction

Blown : Cold Air

Returned: Hot Air



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 8ºC.If defrost time passes 37 minutes, defrost completing temperature will be rise to 15ºC.

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 7ºC. At the low ambient temperature or when the compressor stops; to balance, defrost stops when the defrost sensor temperature feels 15^{o}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.
- When the electricity comes, if the defrost sensor temperature is lower than -5 ºC the compressor works 5 minutes later. If it is higher than -5 ºC.

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.

Entering service mode :
After the cooler temperature is set to 8, push cooler temperature button for 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.
• Alarm icon will blink

In the Servıce mode;

- Starting up by pressing the cooler set button until 1 led lights up. (economy symbol will light)
The below components are checked;
Compressor
Defrost heater
Balance heater
Cooler Fan
Freezer Fan
Condanser Fan

- Manual defrost is done by pressing the cooler set button 2 times. (super symbol will light)
6 Led lights continuously and manual defrost started. When the defrost sensor 10 C,manual defrost ends.
Mode can be canceled manually or automatically
Manual canceling; will be done by pushing REF button.
If manual canceling of this function is not performed in 30 min. service mode will be canceled.
Appliance will check if defrost is finished in this 30min. It YES, appliance will go on from previous set values. But if defrost is not finished , appliance will go on defrost till it finishes and then go on from previous set values.

- When the cooler set button is pressed 3 times, the instantaneous values of the sensor values can be read. (super and economy symbols will burn together) Negative temperature values will be indicated by blink.

THE VALUE OF THE NUMBER 1 SENSOR IS DISPLAYED IN THE FIRST TIME OF FUNCTION.
THE PREVIEW OF THE NEXT SENSOR IS SHOWED WHEN PRINTED IN ANY FREEZER BUTTON.
COOLER SENSOR INSTALLATION TEMPERATURE IS SHOWN IN FREEZER SET VALUE, "1" WRITER IN COOLER VALUE INDICATOR.
FREEZER SENSOR INSTALLATION TEMPERATURE IS SHOWN IN FREEZER SET VALUE, "2" WRITER IN COOLER VALUE INDICATOR
DEFROST SENSOR INSTALLATION TEMPERATURE IS SHOWN IN FREEZER SET VALUE, "3" WRITER IN THE COOLER VALUE INDICATOR
ATTENTION OF THE SENSOR AT THE SIZE OF FREEZER SET VALUE IS SHOWN, THE COOLER VALUE INDICATOR "4" WRITER
SERPANTINE SENSOR HEAT TEMPERATURE IS SHOWN IN FREEZER SET VALUE SEGMENT, "5" WRITER IN COOLER VALUE INDICATOR
WHEN PRIMING THE 5TH BEFORE PRINTING FREEZER BUTTON
MODE OF THE MODE OF THE COOLER BUTTON.

To cancel Service Mode : You can use same method as entering the Service Mode.
After the cooler temperature is set to 8, push cooler temperature button for 10 seconds.

SENSOR	FREEZER SET VALUE	COOLER SET VALUE
(1) Freezer (Short-Open)	E	01
(2) Refrigerator (Short-Open)	E	02
(3) Defrost (Short-Open)	E	03

Component defect on display

DEFECT TYPE	FREEZER SET VALUE	COOLER SET VALUE
Compressor Defect	E	06
Defrost Heater Defect	E	07

Low voltage error on display

DEFECT TYPE	FREEZER SET VALUE	COOLER SET VALUE
Low voltage	E	08

Cooling error on display

DEFECT TYPE	FREEZER SET VALUE	COOLER SET VALUE
LF	E	09
LC	E	10
HC	E	11

• Fin Evaporator Resistance	230V/150W
• Evaporating Tray Resistance	230V/32W (Drain Heater)
• Thermal Fuse	72 ºC
• 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 ELECTRONİC
• 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)

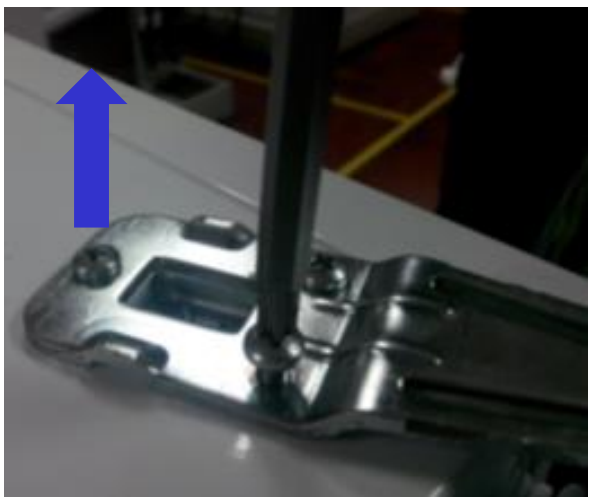
(For The Cooler Defrost Sensor)

45 °C/2.15kΩ	-1 °C/17.1kΩ
35 °C/3.26kΩ	-3 °C/19kΩ
30 °C/4.02k8Ω	-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

1.Hold the top hinge cover and remove it toward that direction (Pic-1)

Picture-1

2.Unscrew the three screws fixing the top hinge and remove it. (Pic-2)



Picture-2

3. Displace the top door (Pic-3)

Picture-3

4. Unscrew the two screws fixing the middle hinge and remove it.(Pic-4)

Picture-4

5. Displace the bottom door. (Pic-5)

Picture-5

6. Unscrew the adjustable foot (Pic-6)

Picture-6

7. Unscrew the bottom hinge screws. (Pic-7)

Picture-7

8. Unscrew the bottom hinge pin and screw it to other hole. (Pic-8)

Picture-8

9. Unscrew the left bottom adjustable foot and the screws fixing roller. After that screw them to other side (Pic-9)

Picture-9

10. Screw the bottom hinge to the left bottom side of refrigerator. Screw the adjustable foot there. (Pic-10)

Picture-10

11. Unscrew the two screws fixing stopper and stopper support plate under the cooler door. After that screw the other side. (Pic-11)

Picture-11

12. Replace the top bushing and the top bushing cap at the bottom door. (Pic-12)

Picture-12

13. Remove the catcher under the top door and then stopper reinforcement plate and screw to the right side (Pic-13)

Picture-13

14. Remove the middle hinge cover and then screw the screw on the side panel (Pic-14.1) and assemble to the right side panel (Pic-14.2)

Picture-14.1 **Picture-14.2**

15. Place the bottom door (Pic-15.1) and rotate the middle hinge by 180º. After that, Screw to the right side on the middle sheet. (Pic-15.2)

Picture-15.1

Picture-15.2

16. Place the top door to the middle hinge and then screw the top hinge to the top panel. (Pic-16)

Picture-16

17. Place the top hinge cover. (Pic-17)

Picture-17

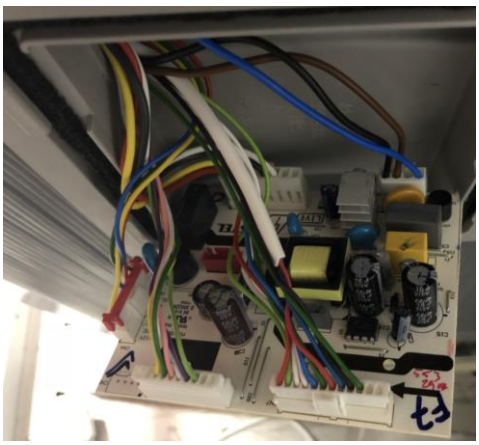
CAUTION: The plug must be pulled out before the mainboard group is removed.

1. Unscrew the three screws which are fixing the mainboard cover by using the screwdriver.
2. Remove the cover after the screws are removed.

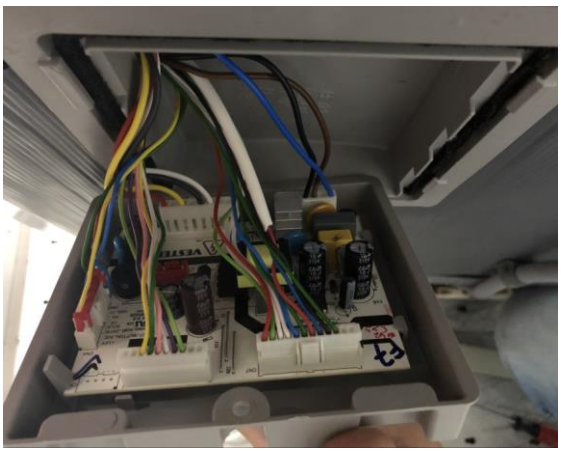
Picture-1

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

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

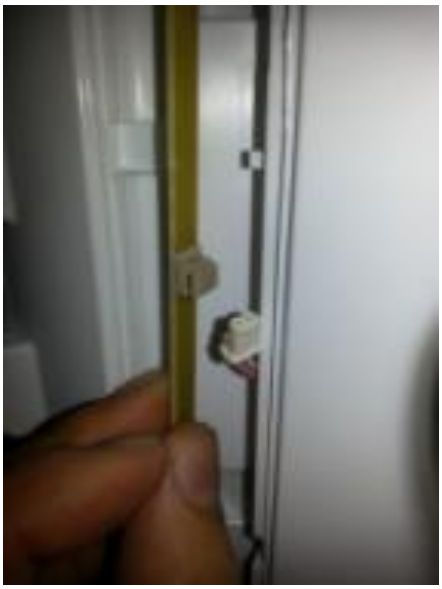
1. Stick a tape to protect plastic. Insert a flat screwdriver into the gap and remove the cover. (Pic-1)

Picture-1

2. Remove the led strip light from its housing. (Pic-2)

Picture-2

3. Disconnect the connector and change the led light strip. (Pic-3)



Picture-3

4. First, place the bottom point of the led light strip and then place towards other side.(Pic-4)

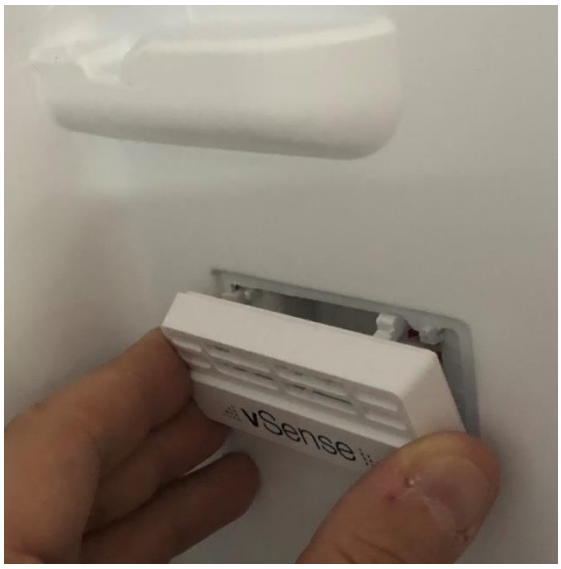
Picture-4

5. Reassemble the led cover. (Pic-5)

Picture-5

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

2. 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

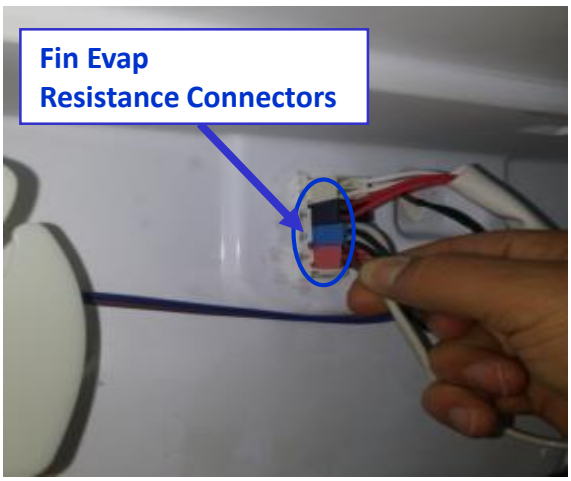
Picture-6

Picture-7

Picture-8

Picture-9

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



Picture-1

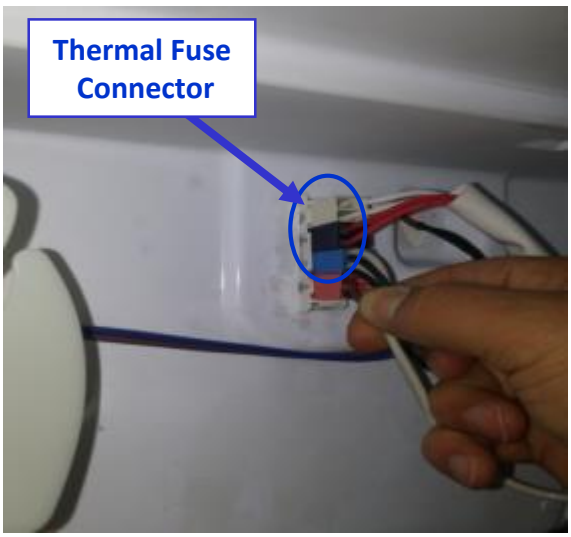
2. Displace the fin evaporator balanced by holding on both sides. (Pic-2)

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

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

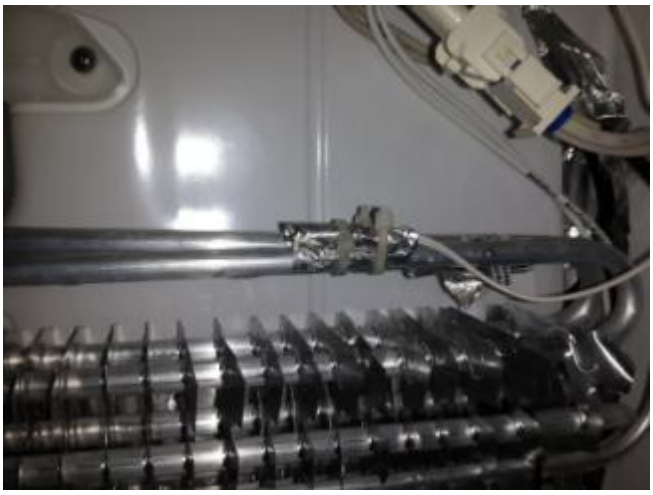
1. Remove the putty around the freezer defrost sensor. (Pic-1)

Picture-1

2. Disconnect the sensor connector. (Pic-2)

Picture-2

3. Assemble the new sensor to the evaporator resistance as shown in the picture. (Pic-3)



Picture-3

4. Connect the sensor socket and apply putty. (Pic-4)

Picture-4

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)

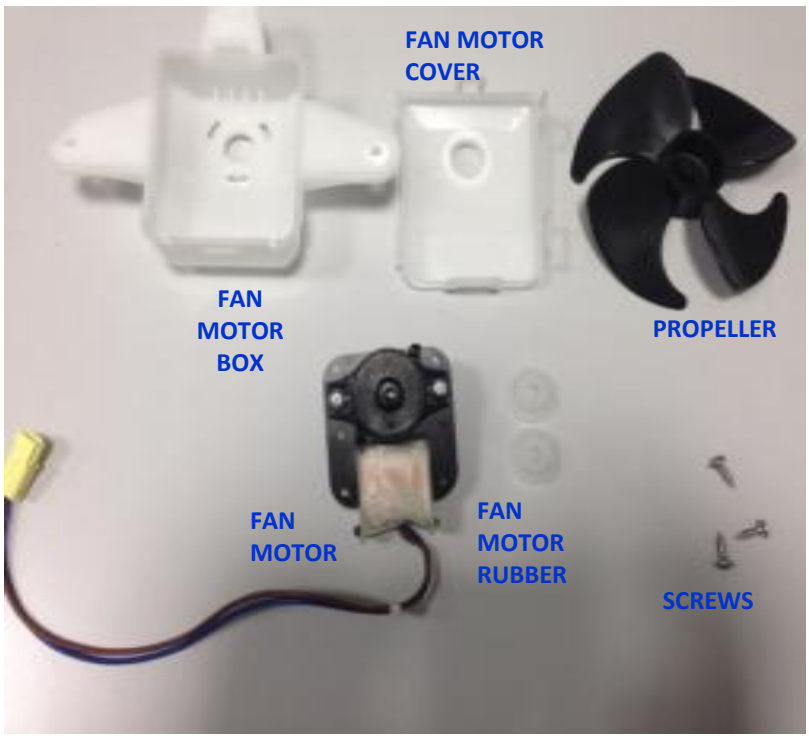
Picture-1

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

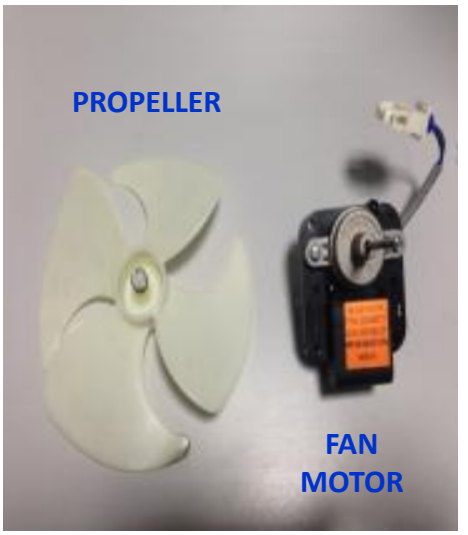
Picture-2

Picture-3

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

Picture-4

Picture-5



Picture-6

VESTEL WHITE GOODS	NO-FROST 543 INNER DISPLAY Removing/Assembling Display	CUSTOMER SUPPORT

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

1. The display can be removed with the help of a horizontal brace or a spatula.
Avoid screwdriver etc. in display disassembly which will apply pressure to the liner plastic on single point. This will damage the liner. By placing the spatula near the door side of the refrigerator between the display and the housing in the body. Remove it from its slot. (Picture-1) (Picture-2)

Picture-1

Picture-2

2. The display tabs are fixed (B) at the bottom and flexible (A) near the door side of the refrigerator. (Picture-3)

Picture-3

B **A**

3. Unplug the cable connector on the display board and remove the display assembly. (Picture-4)

Picture-4

MARCH 2020