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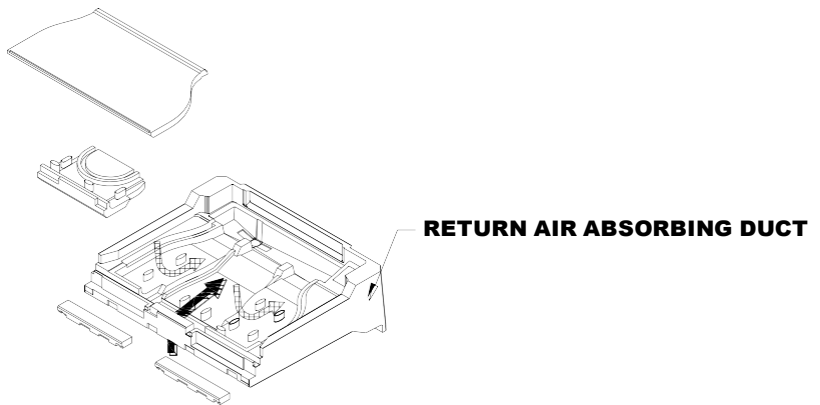
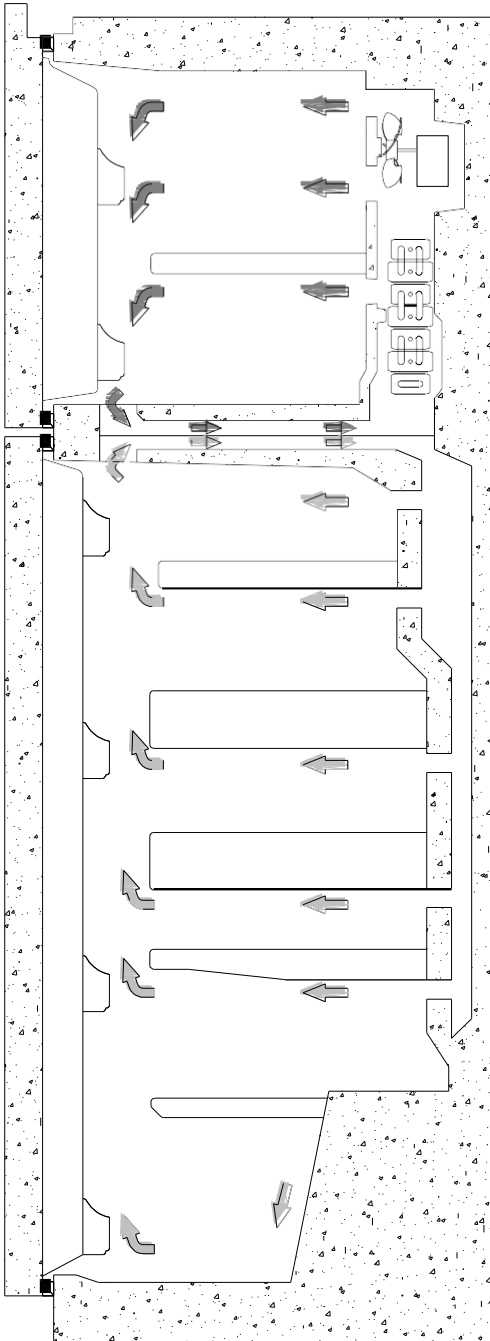
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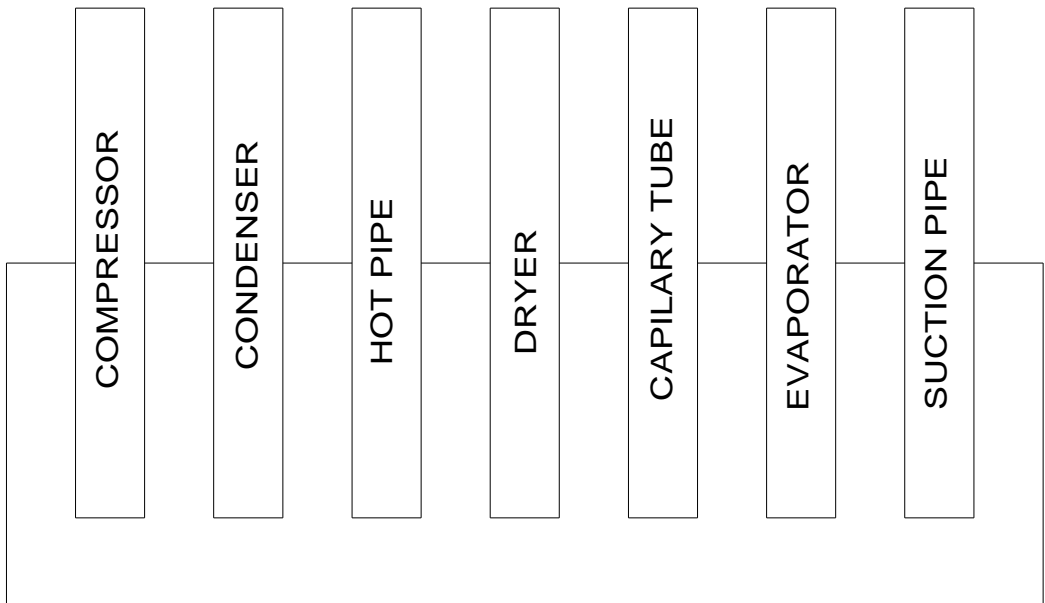
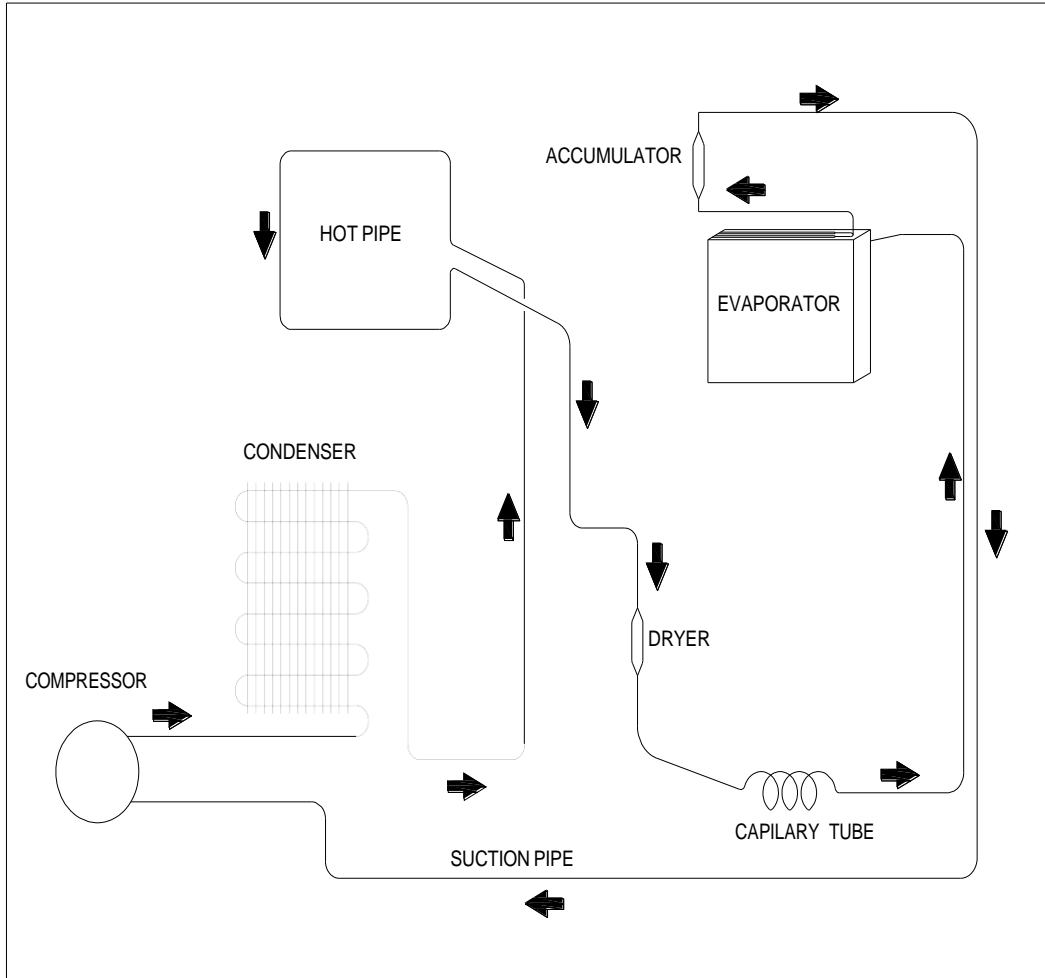
Edition: 05/2015 - Rev. 00

WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	AIR FLOW DIAGRAM	



- ➡ FREEZER SECTION RETURN AIR
- ➡ REFRIGERATOR SECTION RETURN AIR

**NOTE THAT: RETURN AIRS,
WHICH COMES FROM FREEZER
AND REFRIGERATOR SECTION
DO NOT MIX EACH OTHER**

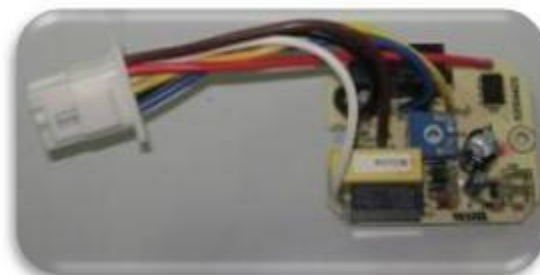


WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	MAIN COMPONENTS	

ELECTRO MECHANICAL THERMOSTAT:

It is located at the left upper side of the freezer compartment.

Main function : To decide when the compressor works according to the temperature of freezer compartment.
To decide when to defros accordng to the ambient temperature.



REFRIGERATOR (DUMPER) THERMOSTAT:

Main purpose is to regulate the temperature of the refrigerator compartment. If the refrigerator compartment temperature reaches to 5°C then the dumper thermostat will be opened. If the refrigerator compartment temperature reaches to -6°C then the dumper thermostat will be closed.

HEATERS:

1.FIN EVAP HEATER (146W) :

It is placed in the holes on the fin evaporator.

Function : To melt the ice formed on the fin evaporator.

2.DRAIN HOSE HEATER (5W) :

It is located inside the cabinet at the connection point of drain hose and drain tray.

Function : To prevent the ice accumulation inside the hose during the defrost period.
If the drain heater is broken (Unusual) it is not possible to change it.

3.DRAIN TRAY HEATER (50W) :

It is placed in the drain tray.

Function : To melt the ice formed on the fin evaporator.

BI-METAL THERMOSTAT ASSY. :

It is located on the accumulator.

Function : Main function is to switch off the defrost heater after the bi-metal temperature reaches to 8 °C on the accumulator during the defrost period.

THERMAL FUSE :

It is an additional protection. If the bi-metal thermostat does not switch-off the AI tube heater, the thermal fuse will blow off (76°C). In this case, all functions will stop.

WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	MAIN COMPONENTS	

WORKING PRINCIPLE OF ELECTRO MECHANICAL THERMOSTAT

Freezer sensor, placed inside freezer compartment sends temperature information to card. The card (Electro mechanic Thermostat) controls compressor's working and stopping period according to signal coming from freezer sensor. When compressor works, the evaporator fan placed on freezer compartment starts to work, and evaporator starts to get cold. By stopping of compressor, evaporator starts to get warm and the fan placed on freezer compartment stops. By the way, freezer compartment temperature has been adjusted.

Below table shows set values according to knob position.

KNOB POSITION	SET VALUES	
	CUT IN	CUT OFF
1	-10,0 °C	-14,0 °C
2	-13,0 °C	-17,0 °C
3	-16,0 °C	-20,0 °C
4	-19,0 °C	-23,0 °C
5	-22,0 °C	-26,0 °C

Refrigerator compartment temperature is controlled by mechanical damper thermostat.

Time period between two defrosts is controlled by the ambient sensor placed on the top panel and card (electro mechanic thermostat) placed in freezer compartment. At ambient temperatures lower than 16°C, card takes the information from the ambient temperature sensor and shortens time duration between two defrosts for a better defrosting performance.



FREEZER SENSOR



AMBIENT SENSOR

WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	MANUAL DEFROST	

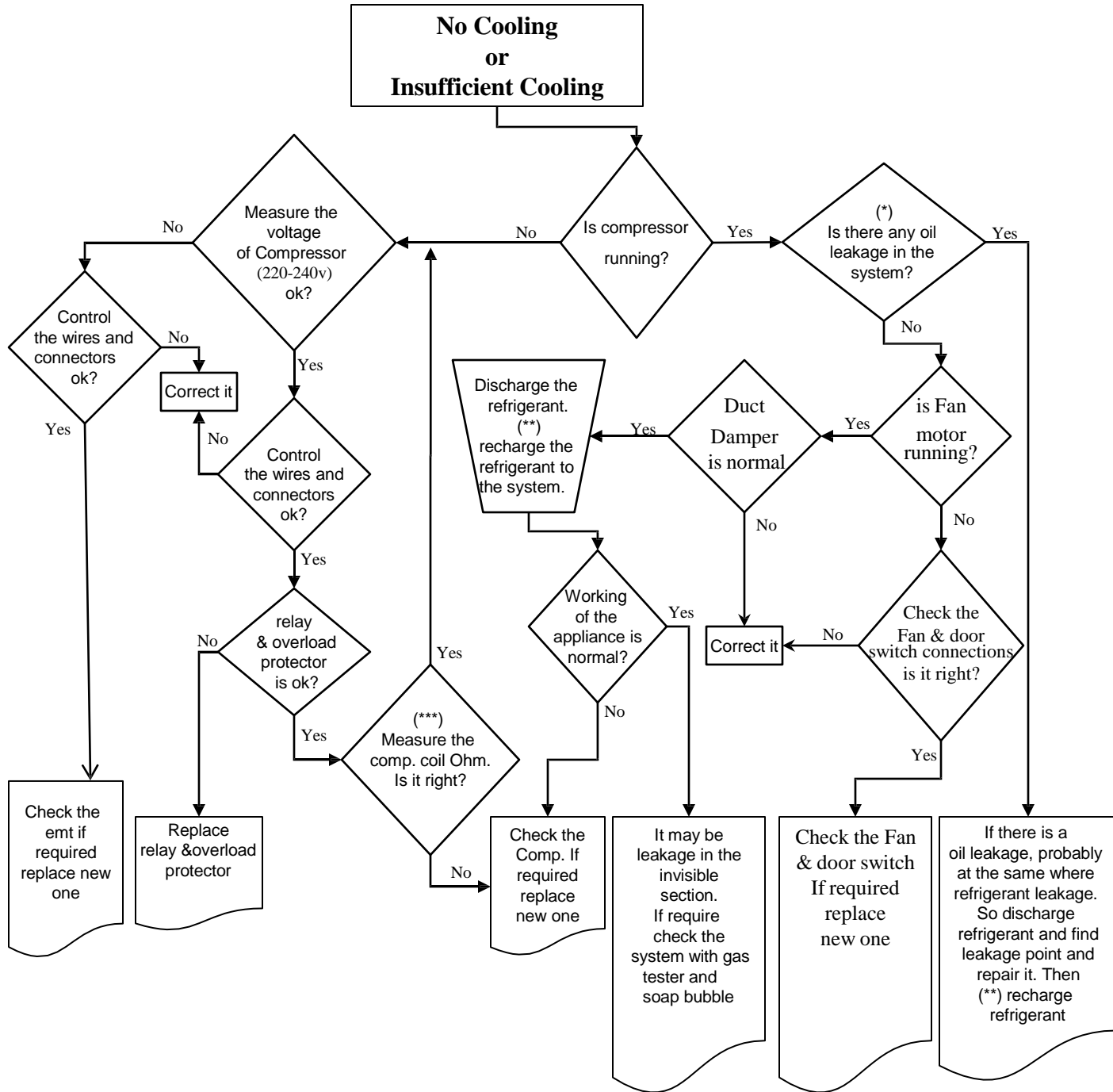
MANUAL DEFROST:

IF THERMOSTAT KNOB IS TURNED TO MAX – MIN -- MAX POSITION 5 SEC.
APPLIANCE ENTERS INTO DEFROST MANUALLY .
DEFROST CAN BE CANCELLED VIA SAME OPERATION.

MAX – MIN – MAX (5 SEC)



WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	TROUBLE-SHOOTING CHART	



(*) Check all of the visible pipes and welding points against oil leakage
 (**) Before recharging the refrigerant to the system; Dryer must be replaced and at least 30 minutes vacuum must be done
 (***) Comp. Main coil and auxiliary coil are 10 Ω and 15 Ω respectively (At 25 °C ambient temp.)

WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	CHANGING THE DOORWAY DIRECTION	

1- Unscrew the screw fixing the upper hinge cover (Fig-1) and remove it.

2- Unscrew the three screws fixing the upper hinge and remove it. (Fig-2)



Figure-1



Figure-2

3- Remove the freezer door. (Fig-3)

4- Unscrew the two screws which are fixing the middle hinge. (Fig-4)



Figure-3



Figure-4

5- Remove the refrigerator door. (Fig-5)



Figure-5

WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	CHANGING THE DOORWAY DIRECTION	

6- Unscrew the bottom hinge fixing screws and remove it. (Fig-6)



Figure-6

7- Unscrew the stationary foot of bottom hinge and screw to Hole-1 Unscrew the hinge pin and screw the pin to Hole 2. (Fig-9)

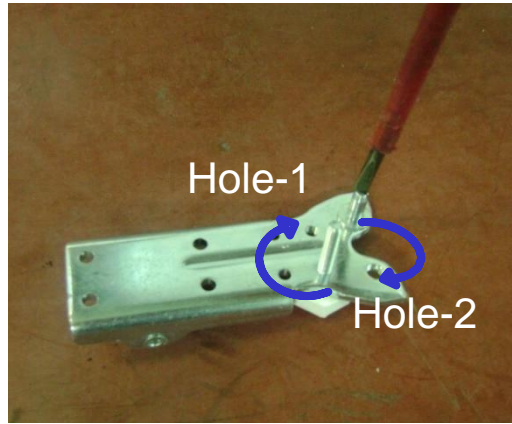


Figure-7

8- Unscrew the stationary foot and front wheel (Fig-8.1) and screw the right side. (Fig-8.2)



Figure-8.1

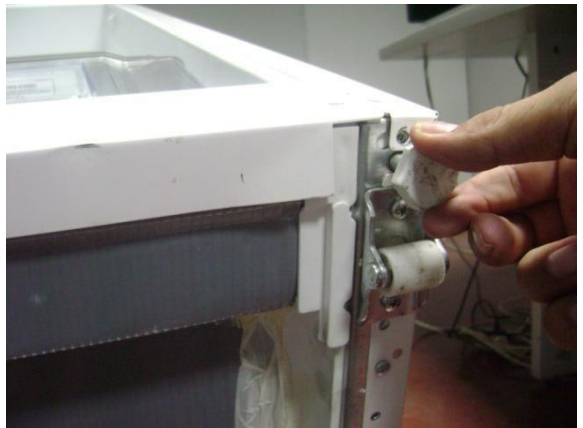


Figure-8.2

9- Screw the bottom hinge to the left side . (Fig-9)



Figure-9

WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	CHANGING THE DOORWAY DIRECTION	

10- Remove the middle hinge cover on the left. (Fig-10)

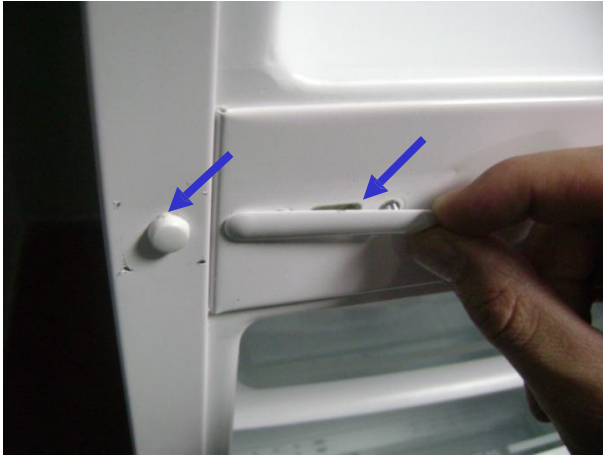


Figure-10

11- Insert the middle hinge cover to the right side. (Fig-11)

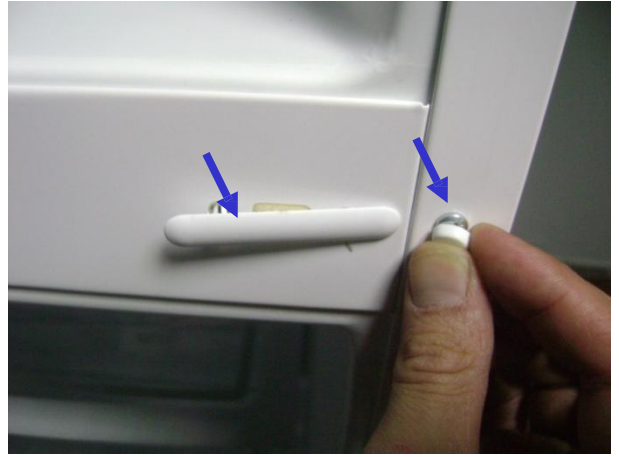


Figure-11

12- Replace the refrigerator door top bushing (Fig-12.1) and top bushing cap. (Fig-12.2)



Figure-12.1



Figure-12.2

13- Remove the refrigerator door bottom bushing and bottom stopper and then insert them the left side. (Fig-13)

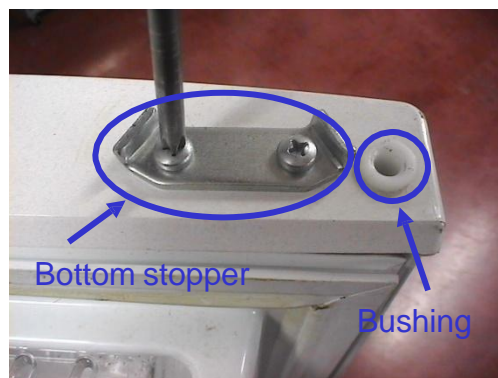


Figure-13

WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	CHANGING THE DOORWAY DIRECTION	

14- Remove the freezer door right catcher (Fig-14.1) and assemble the left catcher to the left. (Fig-14.2)



Figure-14.1



Figure-14.2

15- Assemble the refrigerator door. Turn the middle hinge by 180°. Fix the middle hinge by tightening the screws. (Fig-15.1) Assemble the freezer door. (Fig-15.2)



Figure-15.1



Figure-15.2

Unscrew the screw fixing the top hinge pin. Then fix left top hinge pin to left side of the top hinge. (You can find the left top hinge pin in the user manual bag)



WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	CHANGING THE DOORWAY DIRECTION	

16- Screw the top hinge. (Fig-16.1) and screw the hinge cover. (Fig-16.2)



Figure-16.1



Figure-16.2

WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	FREEZER COMPARTMENT	

Replacement of Freezer Thermostat

1) Remove the ice matic group. Then unscrew the three screws which are fixing the ice matic holder and remove it.



2) Unscrew the two screws which are fixing the thermostat cover and remove it by pulling forward.



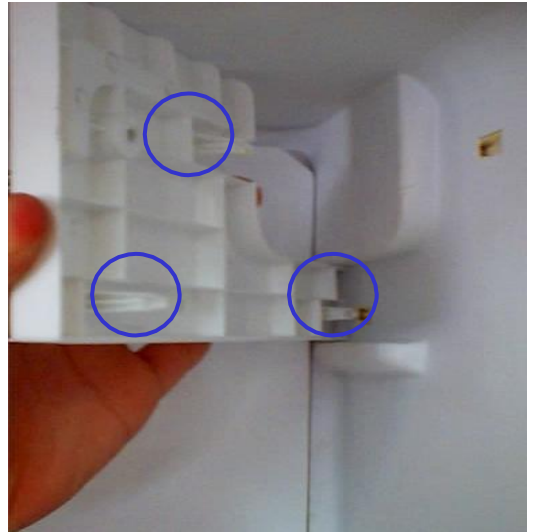
3) Disconnect the housing and take out the Electro mechanical thermostat with its cover.



WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	FREEZER COMPARTMENT	

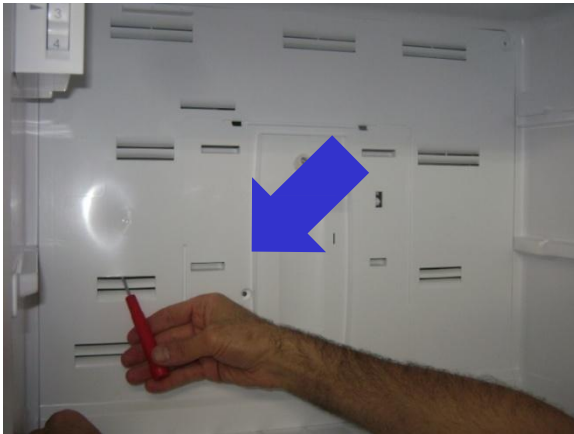
Dismantle of Freezer Partition

- 1) Unscrew the screw fixing the freezer partition.
(KA 40*14 WN 1411(INOX) EJOT)
- 2) Remove the freezer partition by pulling forward.

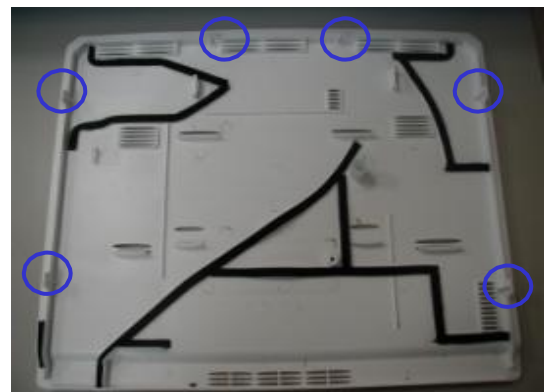


Replacement of Freezer Multiflow Cover

- 1) Unscrew the screw fixing the multiflow cover and remove it.

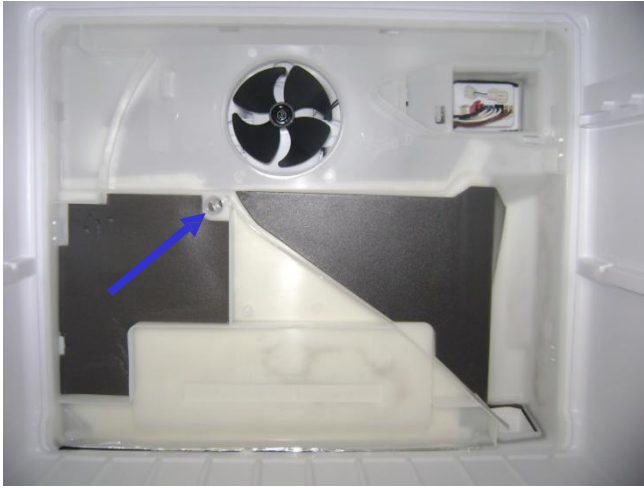


There are 6 catchers and isolation sponges on the back side of the cover. During dismantling of the cover, be careful not to damage them.



WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	FREEZER COMPARTMENT	

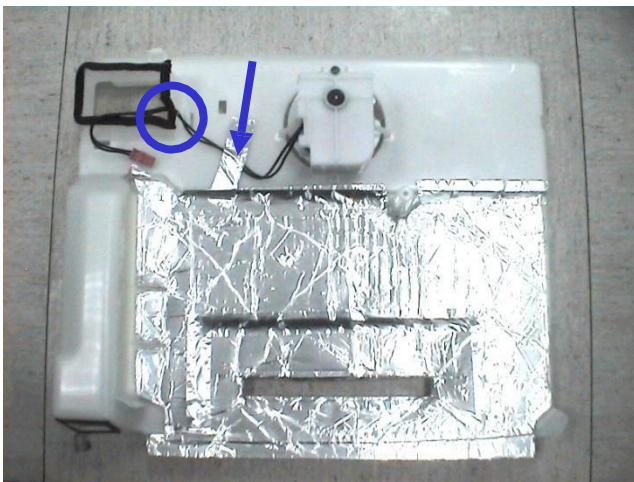
Replacement of Freezer MultiFlow Assy



Unscrew the screw fixing the freezer multiflow assembly.

Disconnect the fan motor connector. (pink connector)

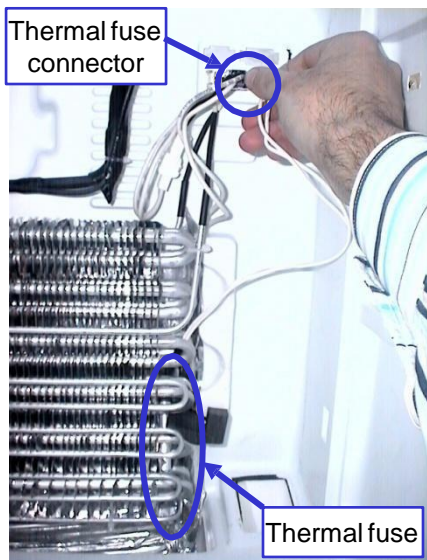
Remove the multiflow assy by pulling forward.



Dismantle the fan motor cover by removing the screw and detach the fan blower spring, and then take out the fan motor.

Note That : Fan motor wires must be pass under the sponge and aluminum tape as shown in picture.

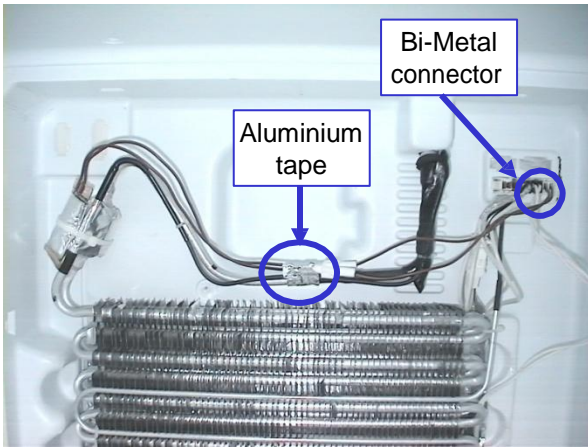
Replacement of Thermal Fuse Assy.



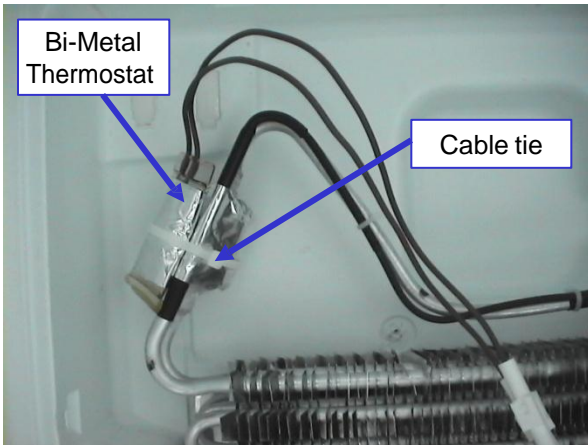
Disconnect to thermal fuse connector. (black connector)
Remove the thermal fuse by pulling which mounted on the right side of the evaporator.
Take out the thermal fuse.

WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	FREEZER COMPARTMENT	

Replacement of Bi-Metal Thermostat

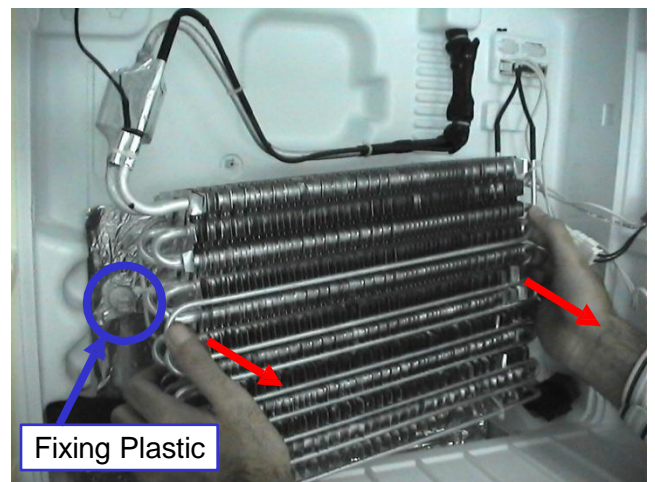
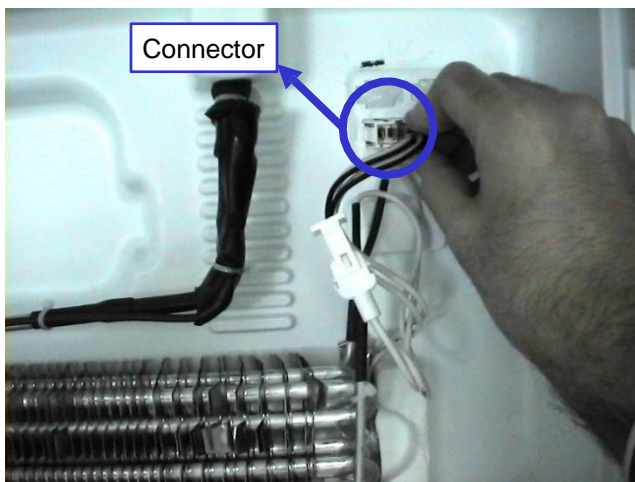


Disconnect to bi-metal thermostat connector. (white connector)



Cut off the cable tie and take out the bi-metal thermostat.

Replacement of Evaporator



Disconnect to evaporator connector. (blue connector)
 Remove the evaporator by pulling forward in a horizontal direction.
 Do not push it up or down. You may break the fixing plastics.

WHITE GOODS	NO-FROST-MECHANIC	CUSTOMER SUPPORT
	REPLACEMENT OF DOOR SWITCH	

Insert a screwdriver into the gap and pull the door switch.



Disconnect the connectors. And take out the door switch.

