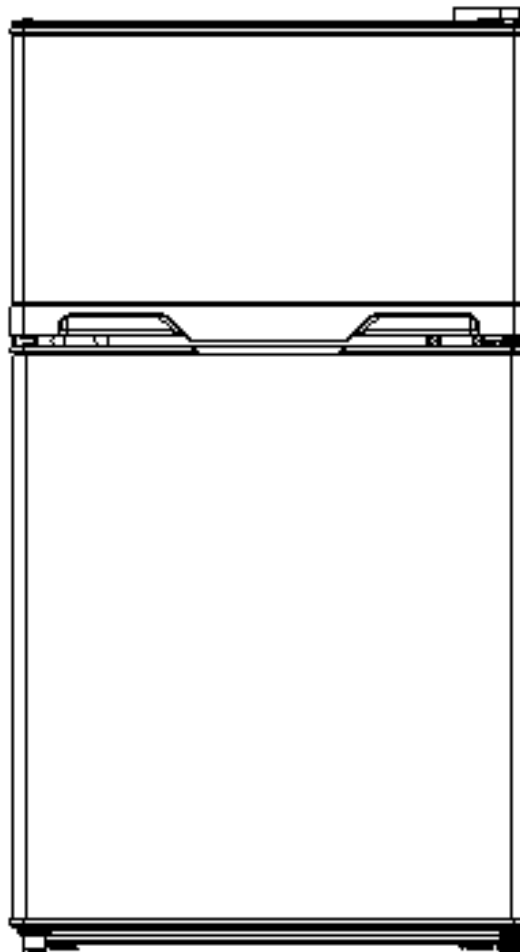


# Service Manual

## COMBI SERIES


Applicable Models	Model Code	Applicable Models
HD-113FN	CE-BCD87CM-SQ	22031020005421
HD-113FN	UR-BCD87CM-ST	22031020005301



The picture in this service manual is only for reference, and specific appearance and configuration are subject to the real product.  
This manual mainly teaches the method, the specific work skill needs engineer to accumulate through the daily work.

 **WARNING**

**Important Safety Notice**

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

 **WARNING**

**Important Safety Notice**

The Maintenance Manual is only for the use of maintenance personnel with certain experience and background in electrical, electronic and mechanical field.

Any attempt to repair main devices may lead to personal injury and property loss.

Manufacturers or distributors are not responsible for the content of the Manual and interpretation thereof.

**Midea Refrigerators**

Technical Maintenance Manual

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**1. Significant update notes(None)**

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## 2. Safety Warning Code

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### 2.1 Warning for operation safety

#### Important Safety Instructions

	<b>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</b>	
	This symbol indicates that dangerous voltage constituting a risk of electric shock is present within your freezer.	
	This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your freezer.	

#### WARNING

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this appliance near water.
- 6) Clean only with a damp cloth.
- 7) Do not block any ventilation openings.
- 8) Install in accordance with the manufacturer's instructions.
- 9) Do not install near any heat sources, such as radiators, heat registers, stoves, or other apparatus that produce heat.
- 10) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 11) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the appliance.
- 12) Do not attempt to modify or extend the power cord of this appliance.
- 13) Unplug this appliance during lightning storms or when it will not be used for long periods of time.
- 14) Make sure that the available AC power matches the voltage requirements of this appliance.

## CONNECTING ELECTRICITY

**WARNING****Electrical Shock Hazard.**

Plug into a grounded 3-prong outlet.  
Do not remove the ground prong.  
Do not use an adapter.

Failure to follow these instructions can result in death, fire, or electrical shock.

**WARNING****Electric Shock Hazard**

**Failure to follow these instructions can result in electric shock, fire, or death.**

- 1) **WARNING**—Keep ventilation openings, in both the freezer and the built-in structure, clear of obstruction.
- 2) **WARNING**—Do not touch the interior of the freezer with wet hands. This could result in frost bite.
- 3) **WARNING**—Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- 4) **WARNING**—Do not damage the refrigerant circuit.
- 5) **WARNING**—Do not damage the refrigerant tubing when handling, moving, or using the freezer.
- 6) **WARNING—DANGER**—Never allow children to play with, operate, or crawl inside the freezer. Risk of child entrapment. Before you throw away your old freezer:
  - 6-1) Take off the doors
  - 6-2) Leave the shelves in place so that children may not easily climb inside
- 7) Unplug the freezer before carrying out user maintenance on it.
- 8) This freezer can be used by children age eight years and older and persons with reduced physical or mental capabilities or lack of experience and knowledge if they are given supervision or instruction concerning the use of the freezer in a safe way and understand the hazards involved. Children should not play with the freezer. Cleaning and maintenance should not be performed by children without supervision.
- 9) If a component part is damaged, it must be replaced by the manufacturer, its service agent, or similar qualified persons in order to avoid a hazard.
- 10) Please dispose of the freezer according to local regulations as the freezer contains flammable gas and refrigerant.
- 11) Follow local regulations regarding disposal of the freezer due to flammable refrigerant and gas. All refrigeration products contain refrigerants, which under the guidelines of federal law must be removed before disposal. It is the consumer's responsibility to comply with federal and local regulations when disposing of this product.
- 12) This freezer is intended to be used in household and similar environments.

13) Do not store or use gasoline or any flammable liquids inside or in the vicinity of this freezer.

14) Do not use extension cords or ungrounded (two-prong) adapters with this freezer. If the power cord is too short, have a qualified electrician install an outlet near the freezer. Use of an extension cord can negatively affect the freezer's performance.

### **Grounding requirement**

This freezer must be grounded. This freezer is equipped with a cord having a grounding wire with a grounding plug. The plug must be inserted into an outlet that is properly installed and grounded.

Improper use of the grounding plug can result in a risk of electric shock. Consult a qualified electrician or service person if the grounding instructions are not completely understood, or if doubt exists as to whether the freezer is properly grounded.

### **2.2 Safety instruction for refrigerant**

**! WARNING**



**Explosion Hazard.**

Keep flammable materials and vapors, such as gasoline, away from freezer. Failure to do so can result in fire, explosion, or death.




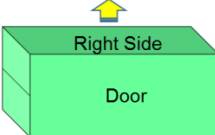
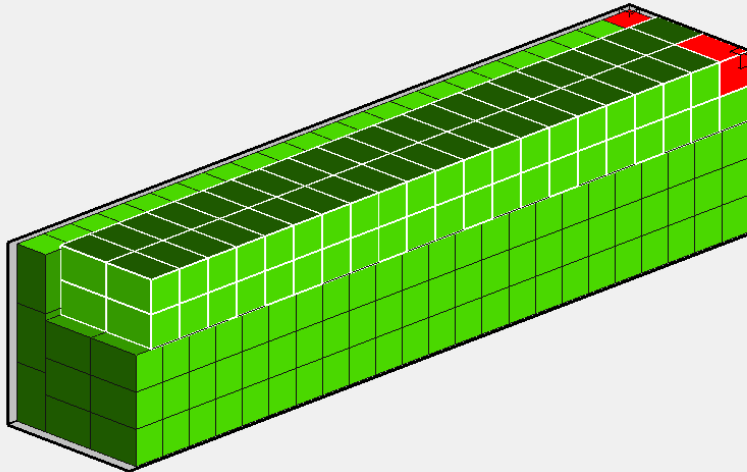
### **Safety instruction for refrigerant**

DANGER—Risk of Fire or Explosion. Flammable Refrigerant Used. To Be Repaired Only By Trained Service Personnel. Do Not Use Mechanical Devices. Do Not Puncture Refrigerant Tubing. CAUTION—Risk of Fire or Explosion. Flammable Refrigerant Used. Consult Repair Manual/Owner's Guide Before Attempting To Service This Product. All Safety Precautions Must be Followed. CAUTION—Risk of Fire or Explosion. Dispose of Properly In Accordance With Federal Or Local Regulations. Flammable Refrigerant Used. CAUTION—Risk of Fire or Explosion Due To Puncture Of Refrigerant Tubing; Follow Handling Instructions Carefully. Flammable Refrigerant Used.



### 3. Transport

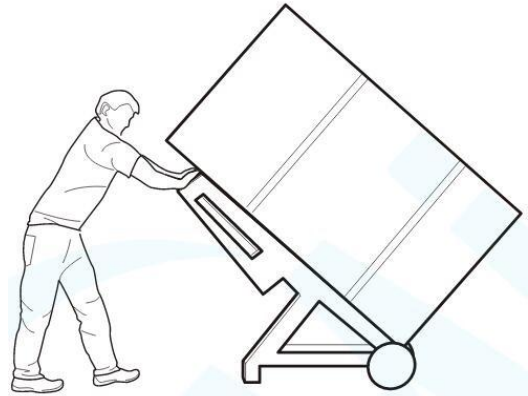
#### 3.1 Container transport

<b>Packing Size(LWH):</b>	515*550*875			
<b>Container specification(LWH):</b>	40HQ (12.032*2.352*2.690) m			
<b>Container scheme, and Container QTY:</b>	<b>What floor</b>	<b>QTY</b>	<b>Door direction</b>	<b>Cabinet direction</b>
	1 <sup>st</sup> floor	69	Outside	/
	2 <sup>nd</sup> floor	69	Outside	/
	3 <sup>rd</sup> floor	69	Outside	/
	4 <sup>th</sup> floor	42	Outside	
	5 <sup>th</sup> floor	42	Outside	
	<b>Total</b>	<b>291</b>		
<p><b>Container diagram</b></p> <p>Vertical placement</p>  <p>Lie down and placement</p> 				
<p>Notes: The goods on the top layer of the container may conflict with the position of the side corner of the container.</p>				

### 3.2 Handling

#### Handling

- 1)Protect the refrigerator in moving it,Same as shown as left photo, please move it by handcart with cushion
- 2)Remove all packing materials and bottom cushion, the move into house for placement
- 3)After moving it to appropriate location, wait for 2 hours before power on.



## 4. Installation and commissioning

### 4.1 Door Disassembly and Assembly (None)

The refrigerator door needs to be dismantled if it cannot enter the room in the whole.

#### Disassembly of Freezer door

Disassembly of Freezer door	None
-----------------------------	------

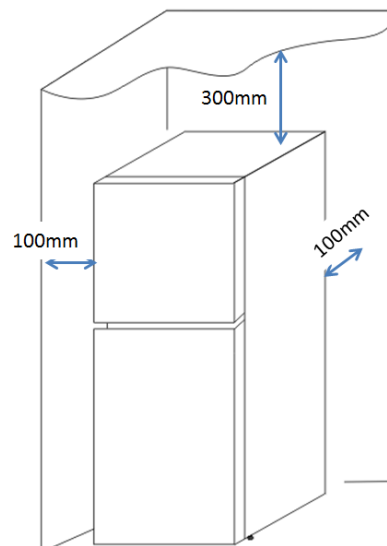
#### Disassembly of refrigerator door

Disassembly of refrigerator door	None
----------------------------------	------

### 4.2 Installation location

#### Installation location

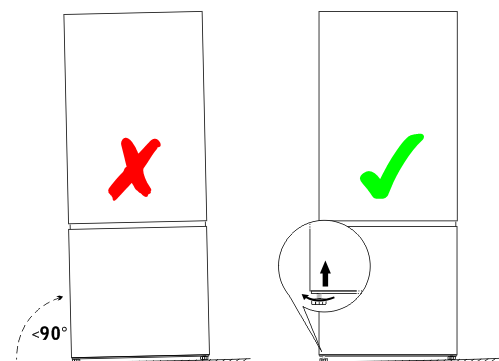
Location that is easy for ventilation shall be chosen to facilitate heat dissipation, enhance its performance and reduce the energy consumption.



### 4.3 Leveling of the refrigerator

#### Leveling of the refrigerator

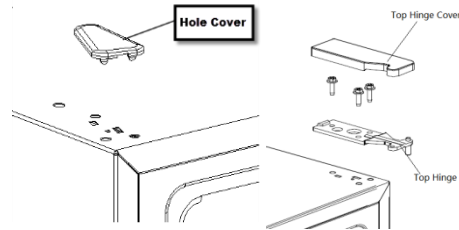
If the refrigerator cannot be placed steadily, adjust the footing to level it.



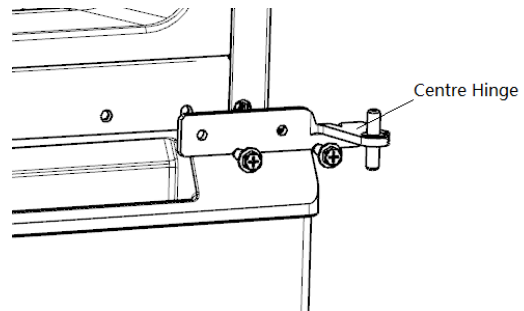
### 4.4 Left or right open door reversal

#### Door reversal

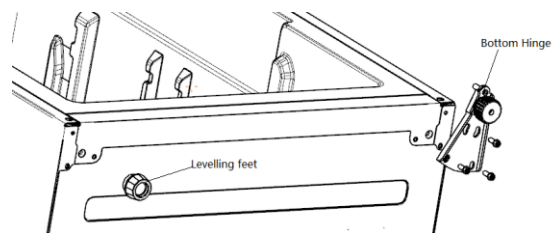
1) Unplug your refrigerator and remove all food from the door shelves.  
 2) Remove the left cover plate and the right top hinge cover, then unscrew and remove the right top hinge. Keep the screws to reuse



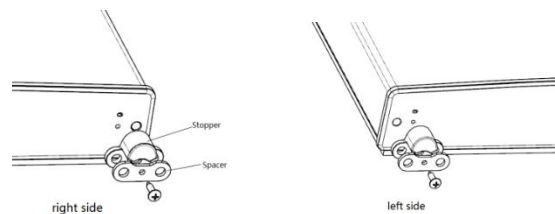
3) Lift the freezer door up and away from your refrigerator.  
 4) Unscrew the two screws holding the center hinge, remove the hinge, then lift the refrigerator door up and away from your refrigerator. Save the screws to reuse.



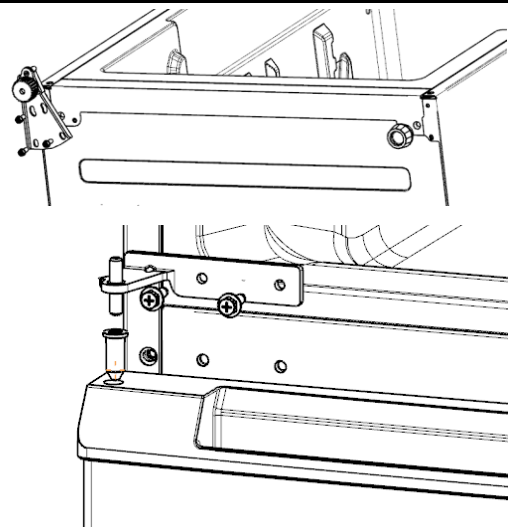
5) Put on the cushion block, lie down the refrigerator, remove the 3 bolts fixed the lower hinge with the sleeve, remove the lower hinge and adjust the foot.



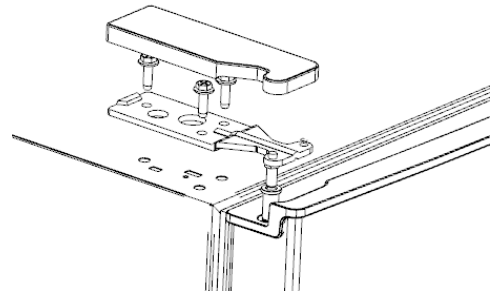
6) Remove the door block from the bottom, right side of the door and attach it to the other side.



7) fix the lower hinge on the left side of the refrigerator with the bolts and adjust the foot to the right side.  
 8) place the refrigerator door vertically on the lower hinge shaft in the open door state.  
 9) fix the middle hinge in the middle hinge position on the left side of the refrigerator by using the two bolts, and screw the middle hinge shaft through the middle hinge and into the door shaft hole of the cold compartment door.



10) Put the freezer door onto the center left hinge, then attach the top left hinge to the top of refrigerator. Cover the hinge with the top left hinge cover and cover the screw holes on the right side of the top with the cover plate you previously removed.

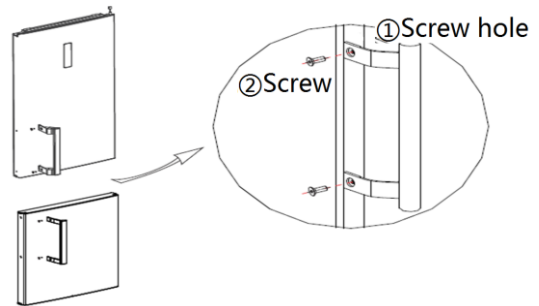


#### **4.5 Installation of handle**

##### **Installation of handle**

Installation of handle

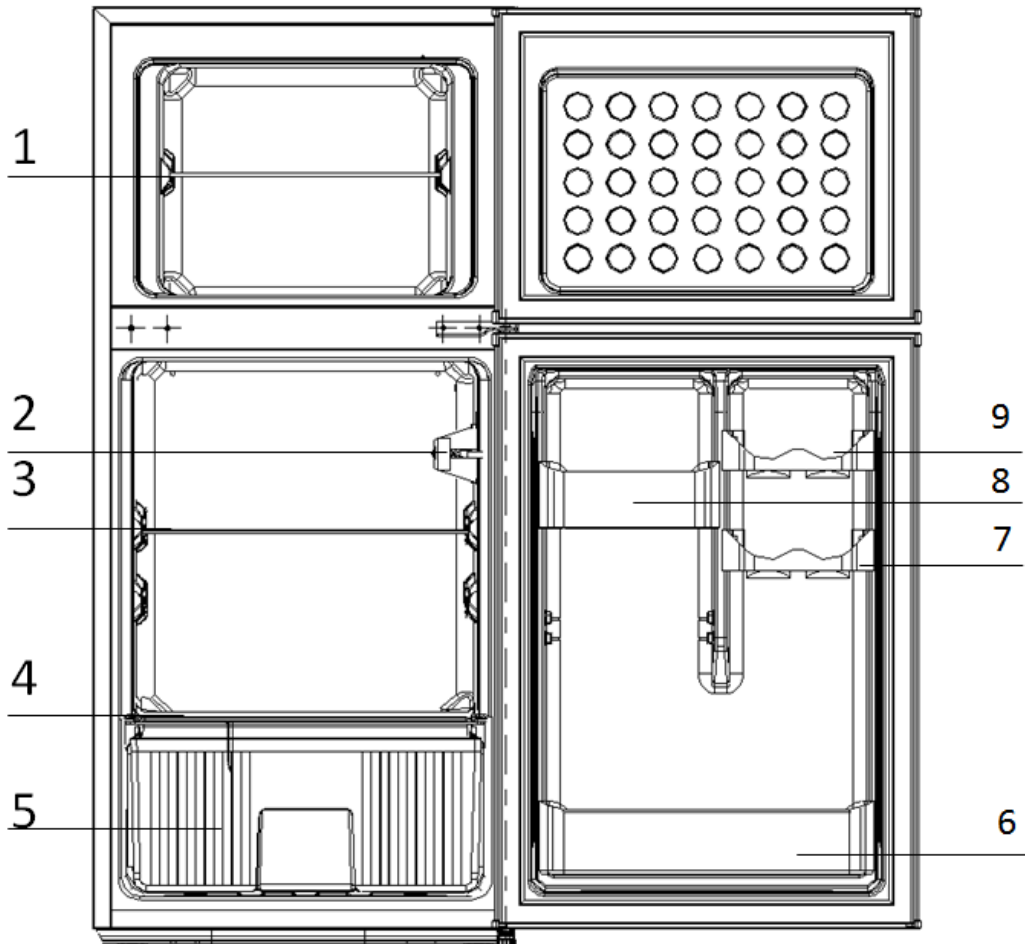
- 1) Precautions shall be taken to prevent fall of the handle from causing any personal injury.
- 2) Assembly steps
  - a、 Use allen wrench to fix screws into the screw hole tightly.
  - b、 The reverse operation is for disassembly.



#### **4.6 Installation of door lock (None)**

## 5. Product configuration and dimension

### 5.1 Main parts and their names

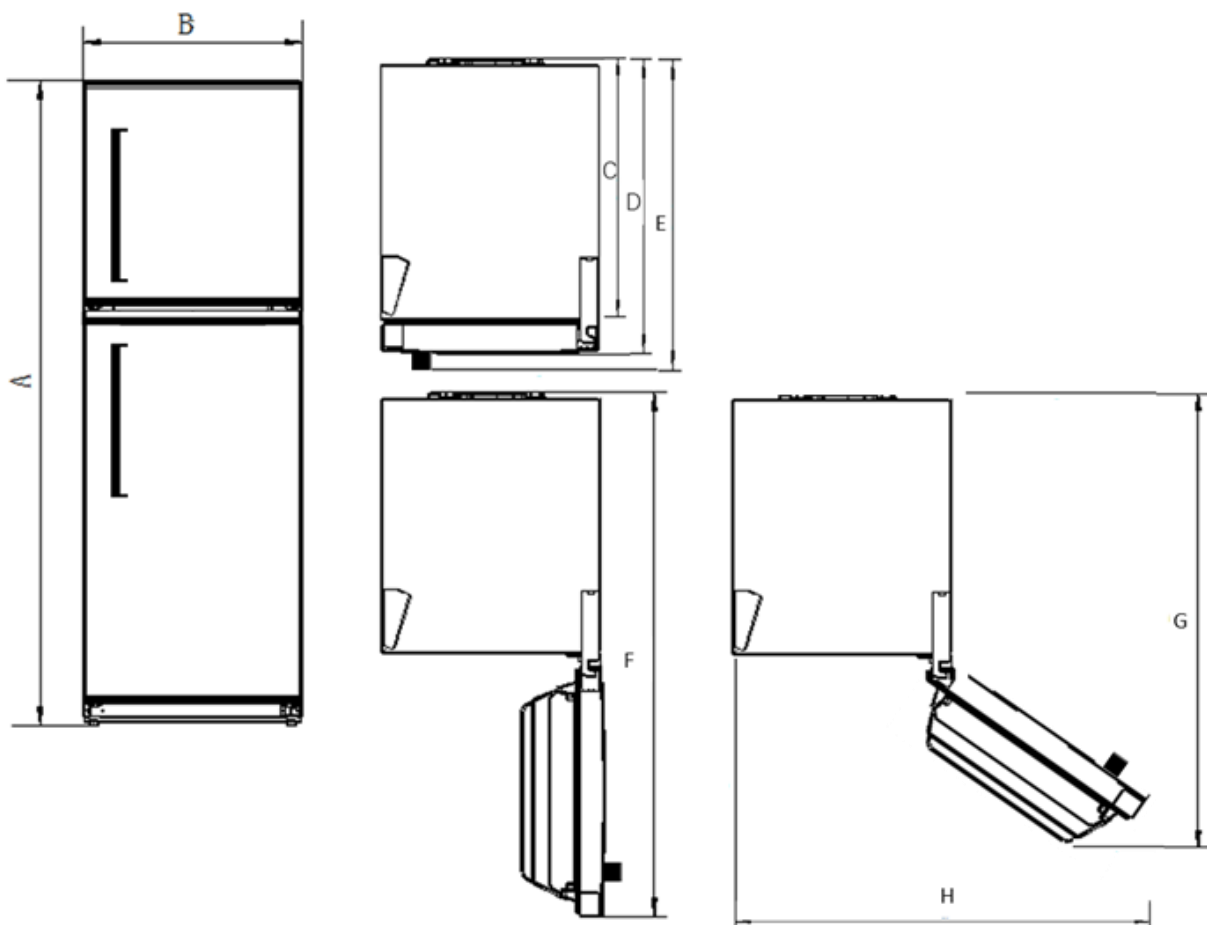


(The picture is only for reference, and specific appearance and configuration are subject to the real product)

Freezer chamber	Refrigerator chamber
1.shelf	2. Temperature-control 3. shelf 4. shelf 5. Fruits and vegetables box 6. large tray in refrigerator room 7. Zip-top can frame 8. small tray in refrigerator room 9. Zip-top can frame

**5.2 External dimension**

Description	Code	HD-113FN Size (mm)
Height to Top of Case	A	837
Width	B	470
Depth w/Cabinet	C	492
Depth w/Door	D	445
Depth w/Handle	E	506
Depth (Door open 90 deg. w)	F	980
Depth (Door open 145 deg. w)	G	678
Width (Door open 145 deg. w)	H	913

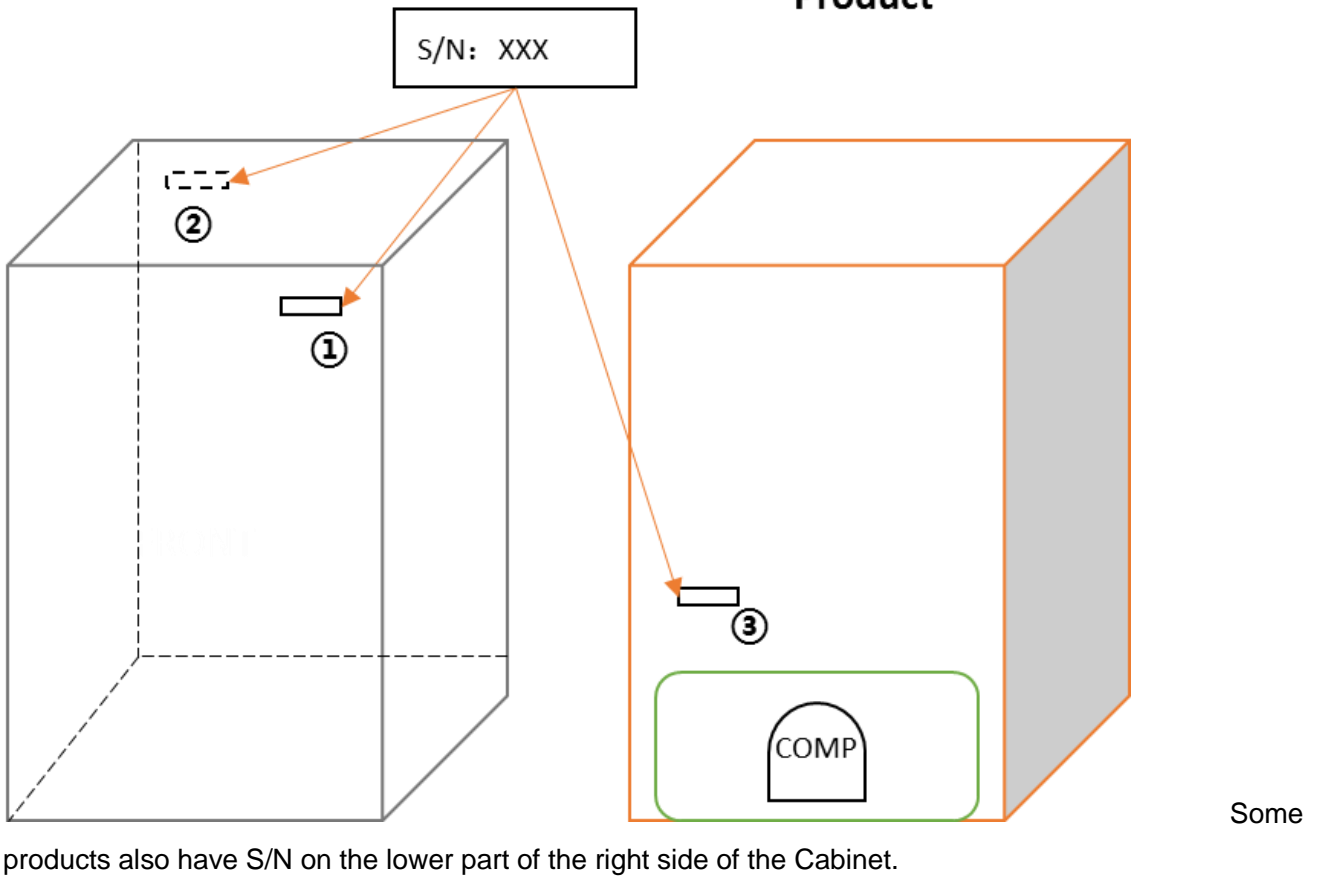


(The picture is only for reference)

### 5.3 Location of S/N

#### Carton Box

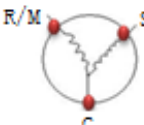
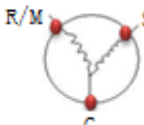
#### Product





## 6. Product specification

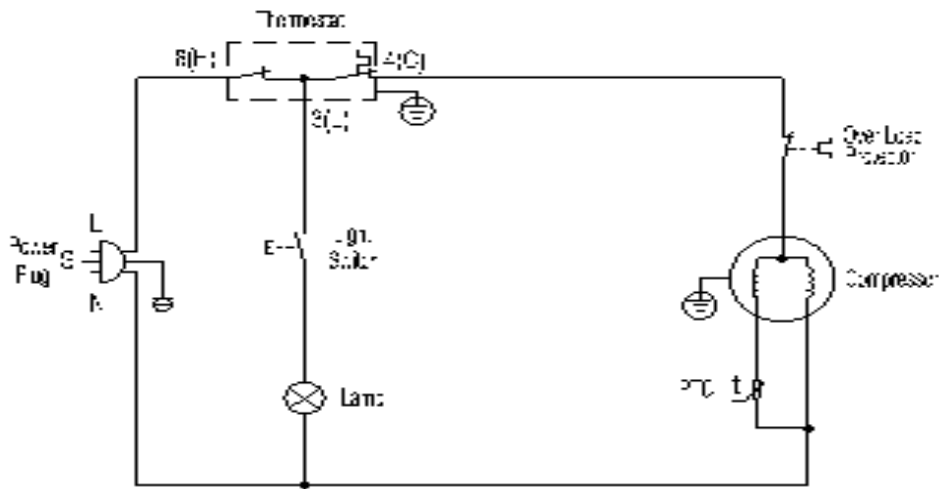
### 6.1 Electrical parameters

<b>Applicable Models</b>	HD-113FN	HD-113FN
<b>Product Name</b>	CE-BCD87CM-SQ	UR-BCD87CM-ST
<b>Product Code</b>	22031020005301	22031020005421
<b>Item</b>	<b>Specification</b>	<b>Specification</b>
<b>Refrigerant</b>	R600a	R600a
<b>Compressor</b>	SZ45C1M	FZ35C1M
<b>Starter(PTC)</b>	QP2-15	QP2-4R7
<b>Overload protector(OLP)</b>	DRB18T61A1	DRB18T61A1
<b>Integrate PTC+OLP</b>	None	None
<b>Variable frequency driver board</b>	None	None
<b>Capacitor</b>	None	None
<b>Power filter</b>	None	None
<b>Winding resistance of compressor wiring terminal</b>	Rmc: 52.3±7%Ω Rsc: 16.4±7%Ω Rms=Rmc+Rsc	Rmc: 13.7±7%Ω Rsc: 13.7±7%Ω Rms=Rmc+Rsc
<b>Winding resistance picture</b>		
<b>The input power of compressor</b>	53W	53W
Lights inside the refrigerator		
<b>Lights inside the freezing chamber</b>	None	None
<b>Lights inside the refrigerating chamber</b>	220-240V/10W	115V/10W
<b>Switch of the refrigerator door</b>	<input checked="" type="checkbox"/> Mechanical switch <input type="checkbox"/> Magnetism control switch	<input checked="" type="checkbox"/> Mechanical switch <input type="checkbox"/> Magnetism control switch

### 6.2 Cooling temperature setting range

Compartment	The highest (°C)	Lowest (°C)
Freezing	-12	-26
Refrigerating	10	1
Variable temperature	/	/

**6.3 Circuit diagram**



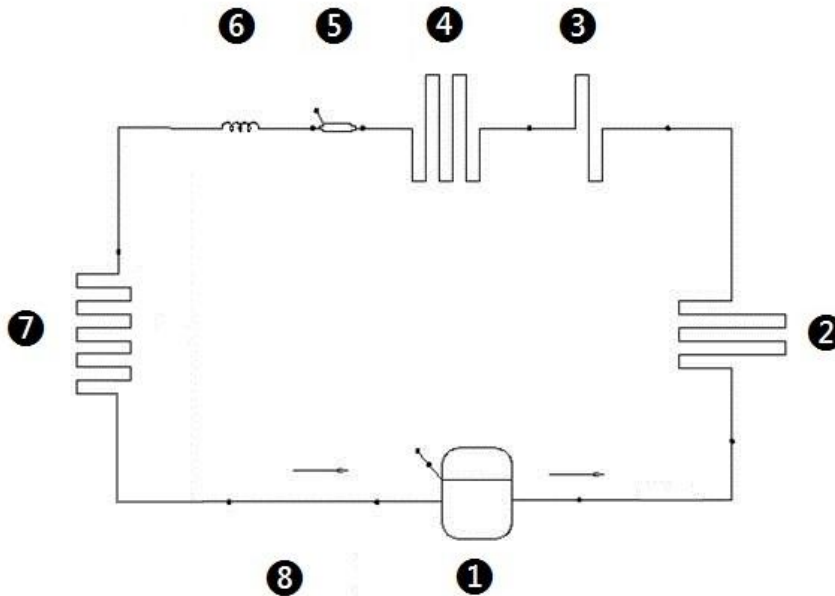
Electric Diagram

F: Freezer    R: Refrigerator    FD: Freezer Defrost    C: Condensation    A: Ambient temperature

## 7.Refrigerating piping system and circulating route of cooling air

### 7.1 Refrigerating piping system

① Compressor→② Left condenser→③ Anti-condensation tube→④ Right Condenser→⑤ Dry filter→⑥ Capillary tube→⑦ Evaporator→⑧ Suction tube→① Compressor



**7.2 Special soldering position**



## 8. Dismantling of parts

### 8.1 Parts on the door

#### Door seal

Door seal is installed into door liner groove.

- 1) Open the refrigerator door.
- 2) Take the door seal ① out of door liner.



#### Door tray

As shown in figure direction, take up.



### 8.2 Parts inside the refrigerator

#### Refrigerator Fruit box cover

Remove the crisper cover of ref. compartement according to below steps:

- 1) Take out the crisper firstly.
- 2) Lift up the Fruit box cover, and then pull out it.



**Shelves**

- 1) Pull out the partition plate.
- 2) Lift it up and take it out from the refrigerator.



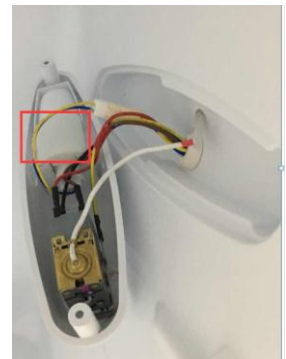
**8.3 Light system**

**Light**

**Light of the refrigerating**

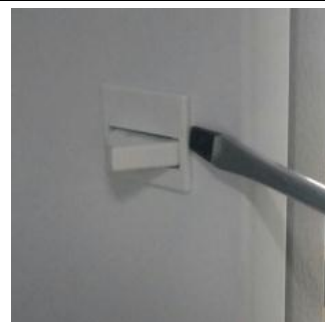
Light of the refrigerating chamber is located upper chamber(inner display)

- 1)
- 2) 3) 4) 6) The reverse process can complete installation.



**Light switch**

There is a light switch on the side wall of the refrigerating chamber. 1) Loosen the hook with small normal screwdriver and pull out the switch until the wire connector reveals.



### 8.4 Evaporator and Defrost system(None)

#### Evaporator in freezing chamber

1) Remove the drawer and buckle, cut down the tube and remove the evaporator

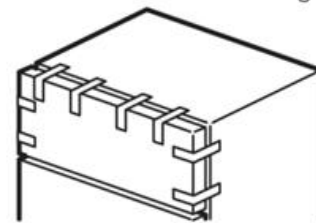


### 8.5 Compressor case

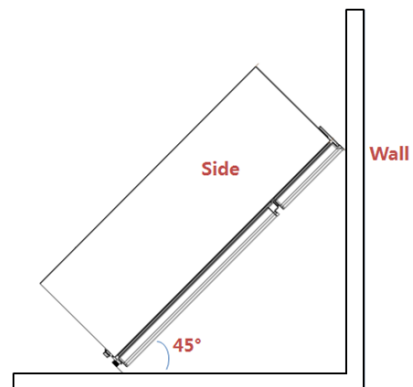
#### Rear cover (None)

#### Compressor and the cooling system pipe

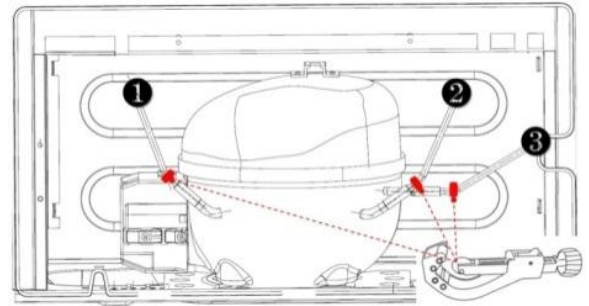
1) Cut off the power, remove the goods in the refrigerator, with the tape to make the door fixed firmly and prevent the door dropping when the refrigerator dumping.



2) Slowly tilt the refrigerator forward, relying on the wall or a solid enough object, leaving space to facilitate the operation. For safety, it should be carried by someone to prevent its falling.

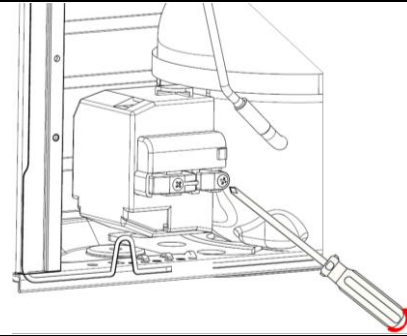


3) Cut off the compressor pipeline.-**①**Cut off the process pipeline.-**②**Cut off the low-pressure muffler.-**③**Cut off the high-pressure exhaust pipe.



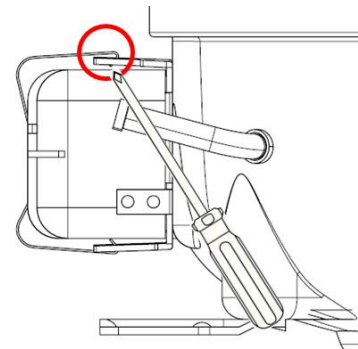
4-1) **Remove the screws(for some models)**

- Two screws outside
- One screw inside



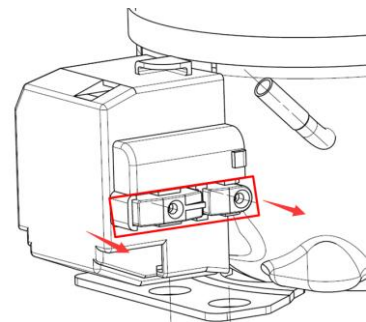
4-2) **Remove the metal clamp(for some models)**

- Disassembly the metal clamp that is fix the electric appliance shield



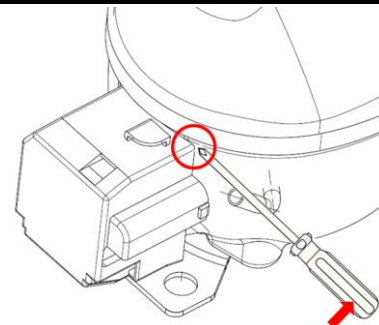
5) **Remove the clipping strip**

Slowly pull it out



6) **Remove the protective cover**

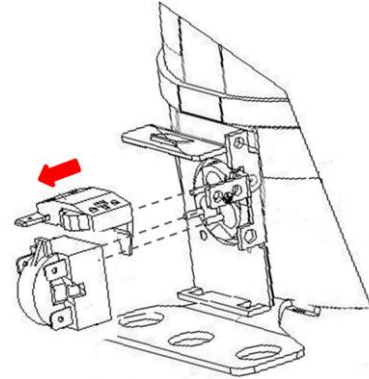
- Pry the protective cover slowly from the upper part,
- Pull it out and remove it.



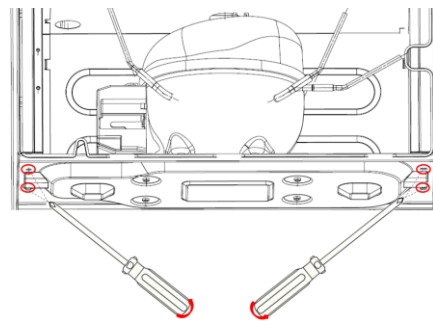


**7) Remove the starter and protector**

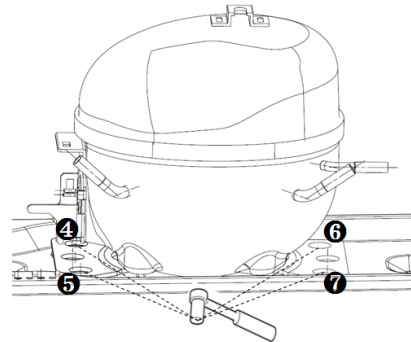
Unplug the starter and protector (you can use a screwdriver to pry it slowly)



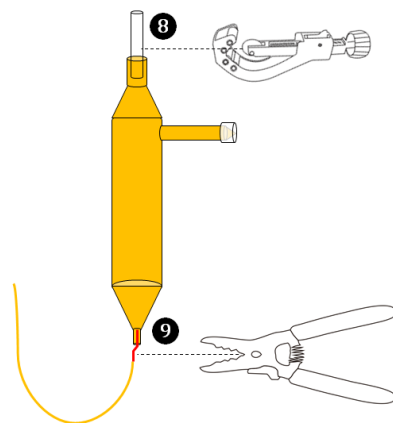
8) Loosen the screw of the compressor bottom plate, remove the floor together with the compressor from the box.



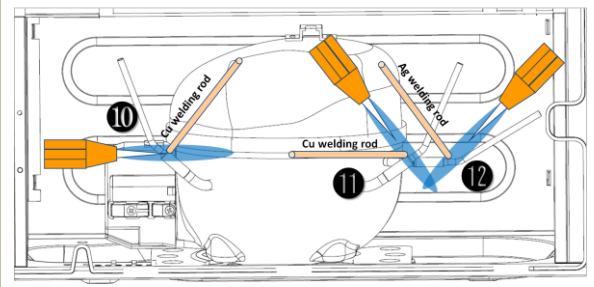
9) Use the wrench to remove the bolts by steps ④ ⑤ ⑥ ⑦, replace the compressor and reverse process can complete installation.



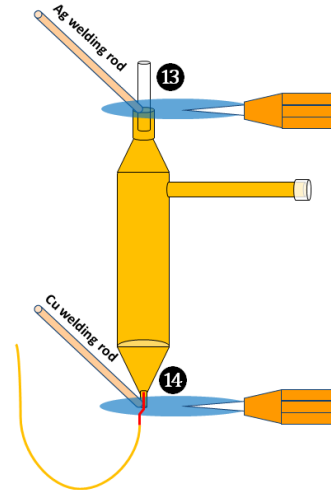
10) Use Pipe cutter cut off the condenser tube ⑧, then Shear off capillary ⑨ by the capillary tube scissors.



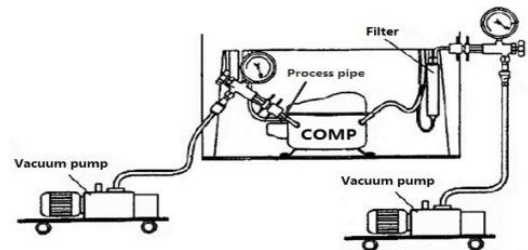
11) Replace the compressor and welding the compressor pipeline.-**10**Welding the process pipeline.-**11**Welding the low-pressure muffler.-**12**Welding the high-pressure exhaust pipe.



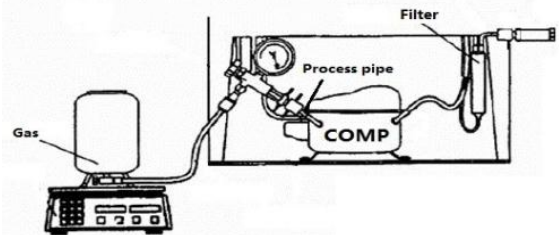
12) Replace the filter, Cu-Fe tubes welding **13** used Ag welding rod, Cu-Cu tubes welding **14** used Cu welding rod.



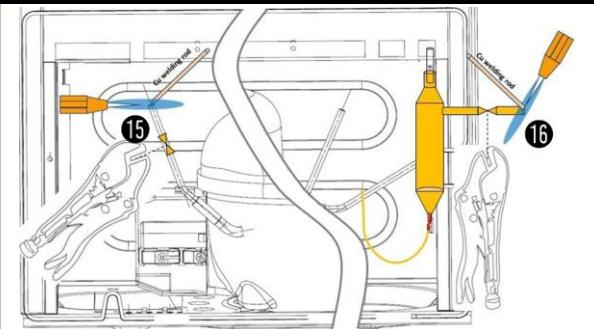
13) Vacuum system, The degree of vacuum below 6Pa.



14) Perfusion refrigerant.



15) Use the vise grip pliers clamp the middle of the process pipe, then seal welding process tube **15** **16**.



**Piping system in the compressor case**

1.compressor

- 2.left condenser
- 3.dry filter
- 4.suction pipe
- 5.right condenser



**Drain tray**

1) Disengage the drain tray buckle out of the compressor bottom plate installation hole.



2) Replace the drain tray, the reverse process can complete installation.



## 9. temperature sensing system

### Thermostat

1.Remove the lamp cover and insert pin, remove the screw under insert pin, outward pulling the thermostat-control box at horizontal



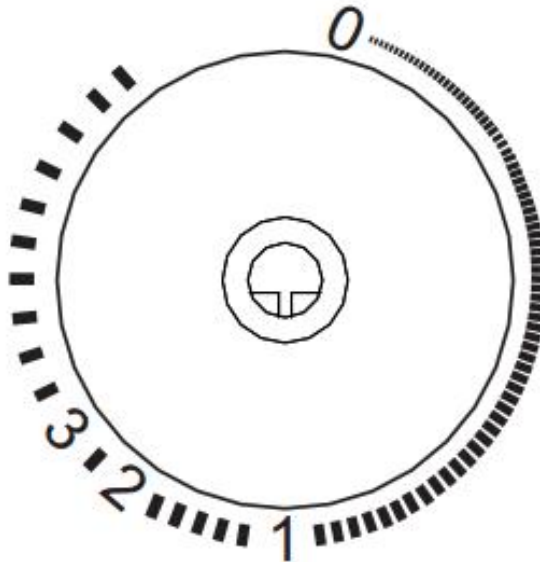
2.pull out the knob,remove the socket the terminal,replace the thermostat



## 10. Function and operation

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### 10.1 Operation panel



⚠ (The picture above is only for reference. The actual configuration will depend on the physical product or statement by the distributor.)

- Turn the temperature control knob to 3, the internal temperature of the refrigerator becomes lower.
- Turn the temperature control knob to 1, the internal temperature of the refrigerator becomes higher.
- The letter on the knob only represents the temperature level, but does not mean the specific temperature, the "0" means stop working.

NOTE: Please adjusting and using between "MAX" and "MIN".

### 10.2 Temperature setting

Turn the temperature control knob to MAX, the internal temperature of the refrigerator becomes lower.  
Turn the temperature control knob to MIN, the internal temperature of the refrigerator becomes higher.

NOTE: Please adjusting and using between "MAX" and "MIN"

**10.3 Open door alarm(None)**

**10.4 Defrosting function(None)**

**10.5 Test mode(None)**

**10.6 Backup data for power fail(None)**

## 11. Compressor

---

1.1 11.1 Compressor on and off Control specifications When one of the following conditions is met, the compressor stops:

- 1)  $T_r \leq T_{rt}$ ;
- 2) The compressor runs continuously for more than 3 hours (Stop 5 minutes);

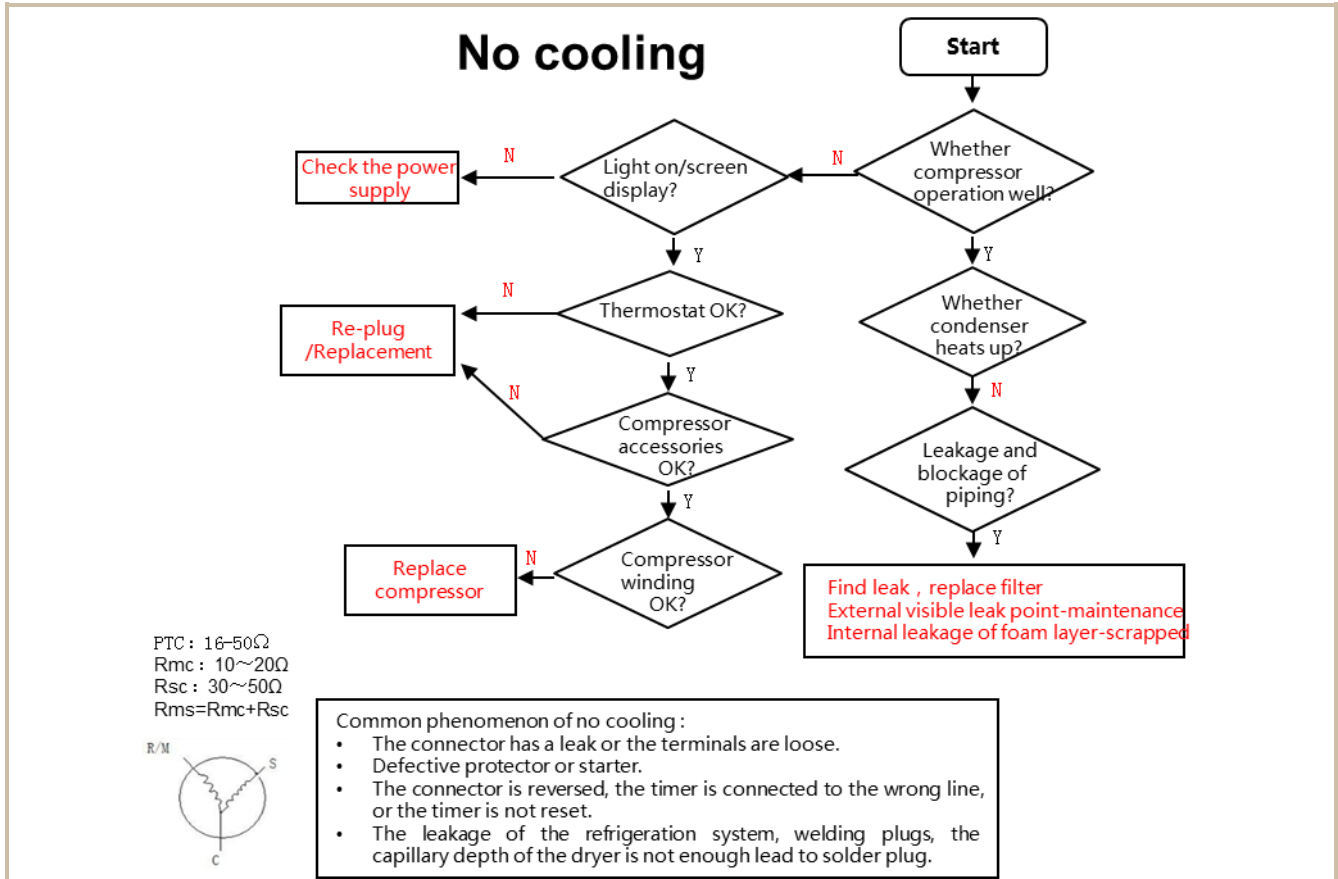
1.2 When all the following conditions are met, the compressor starts up:

- 1)  $T_r \geq T_{rk}$ ;
- 2) Compressor downtime is more than 5min.

★When 1.1 and 1.2 are not satisfied, the compressor maintains the original state

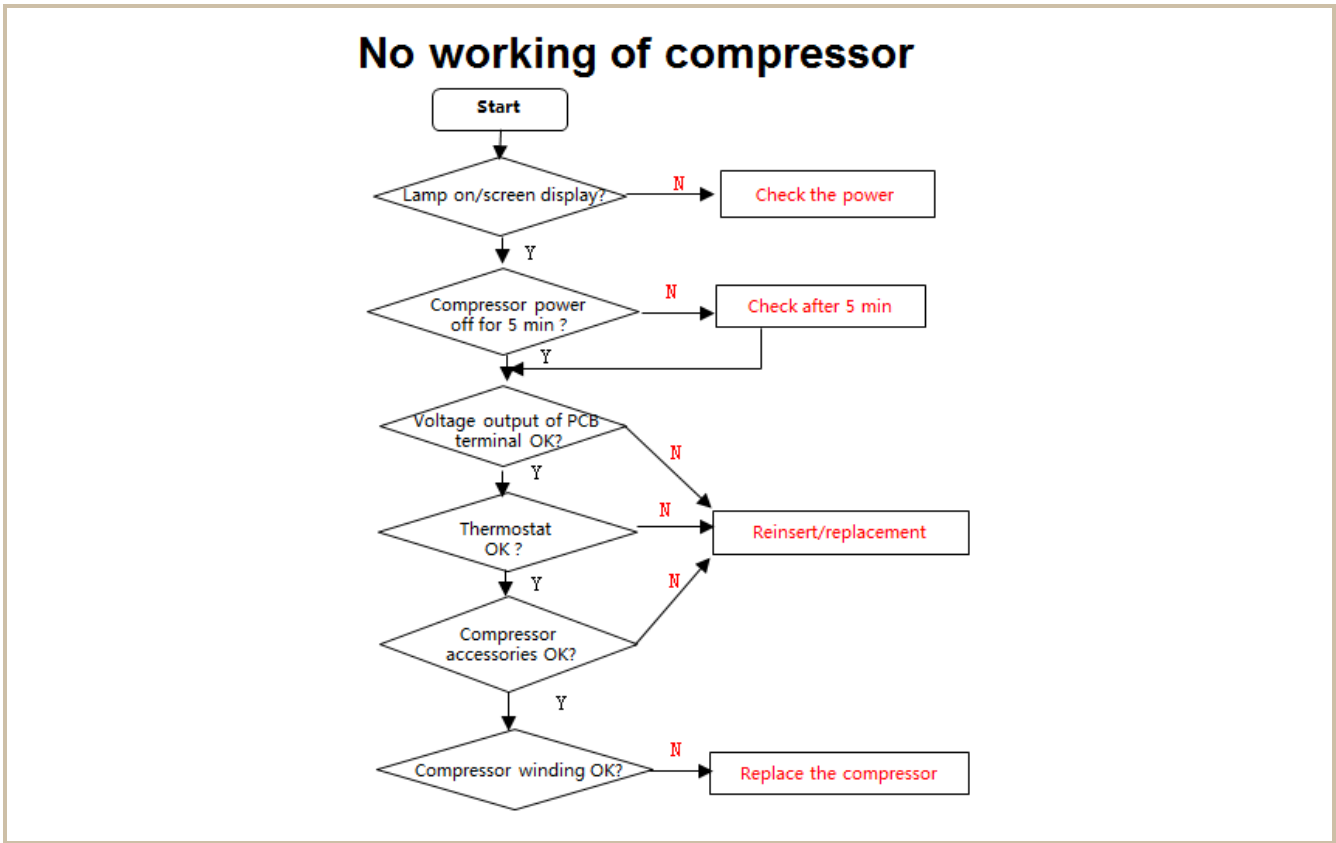
## 12. Troubleshooting Method

### 12.1 Not cooling

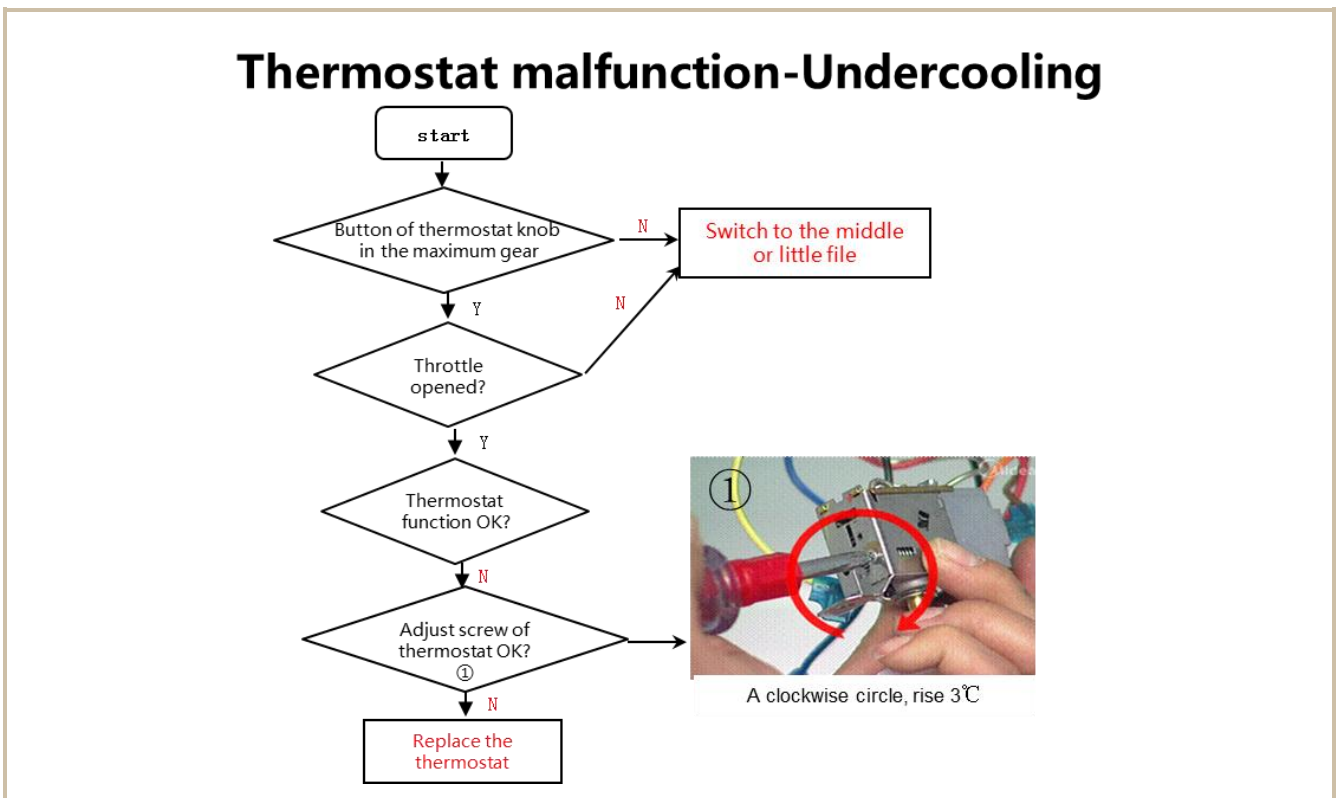




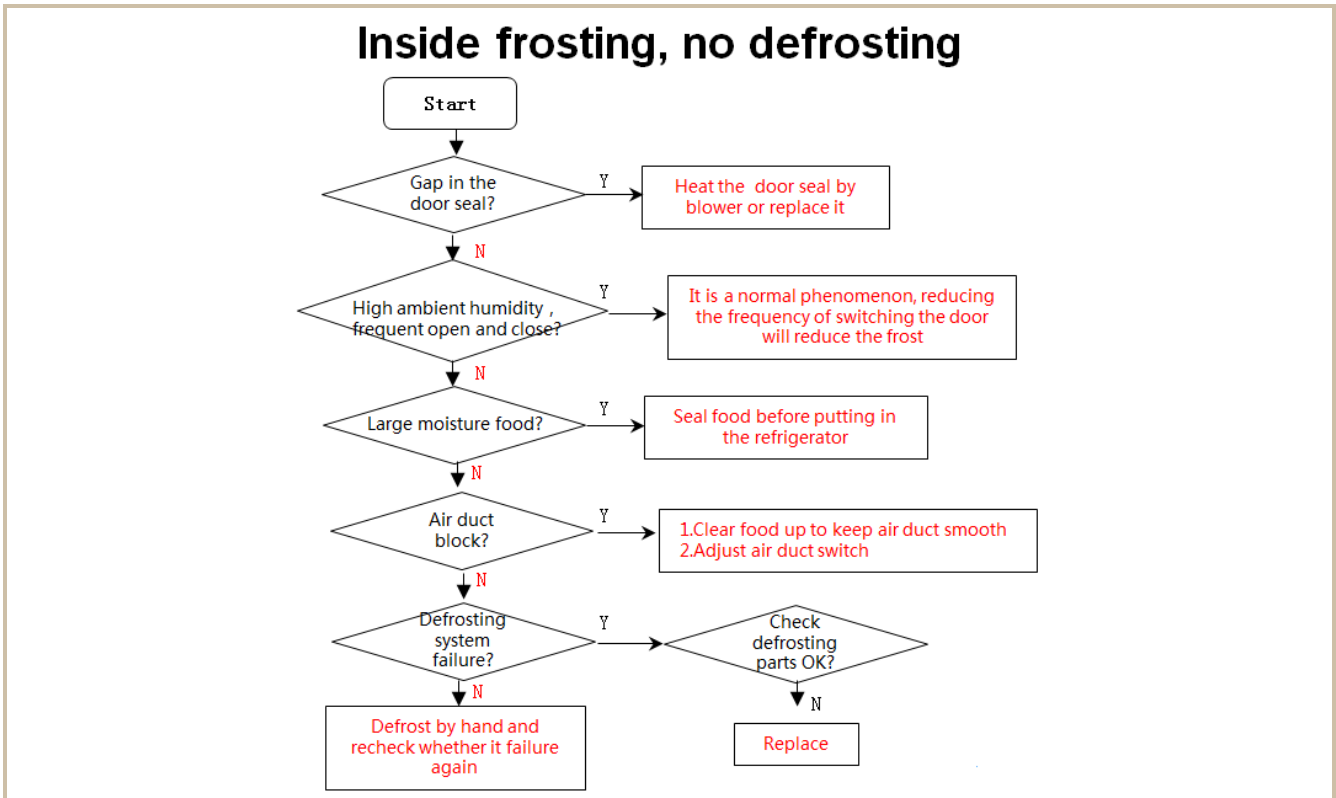
### 12.2 No working of compressor



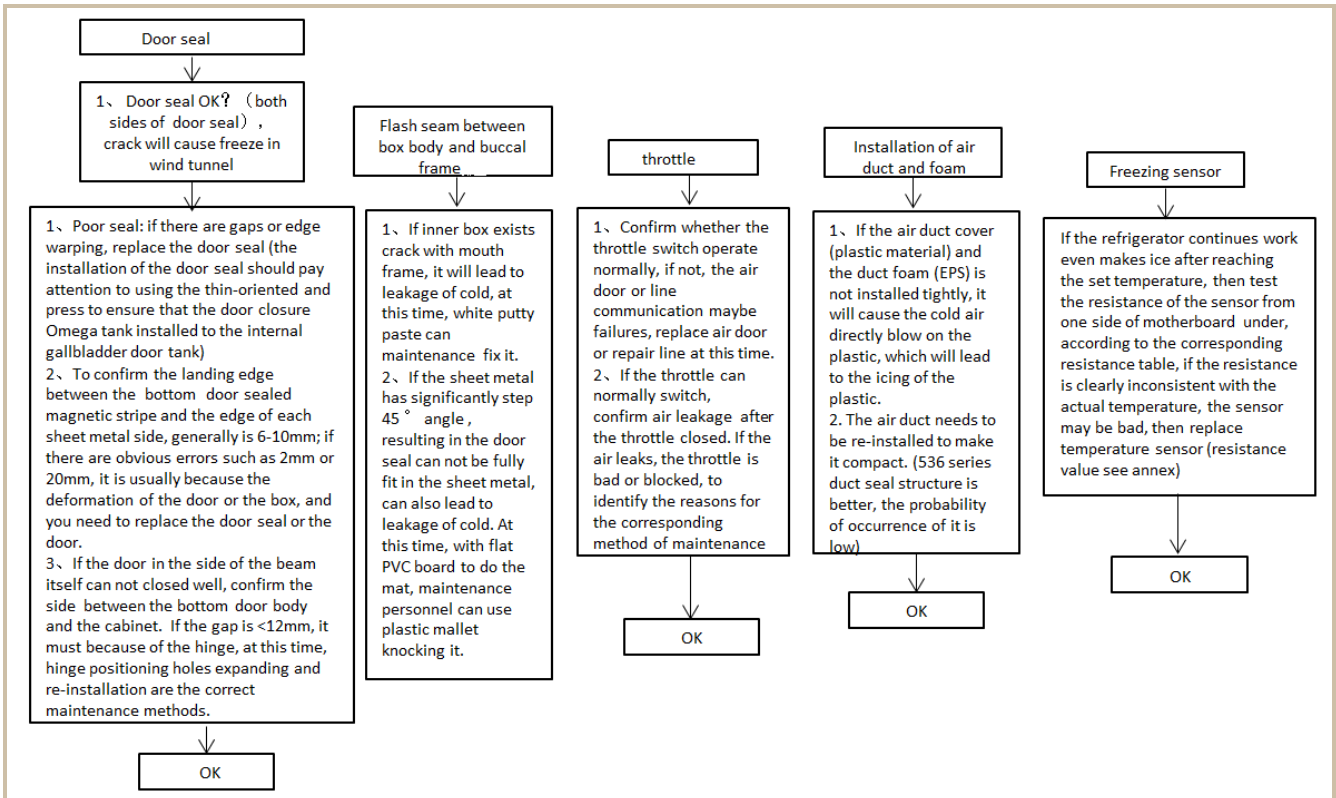
### 12.3 Thermostat malfunction-Undercooling

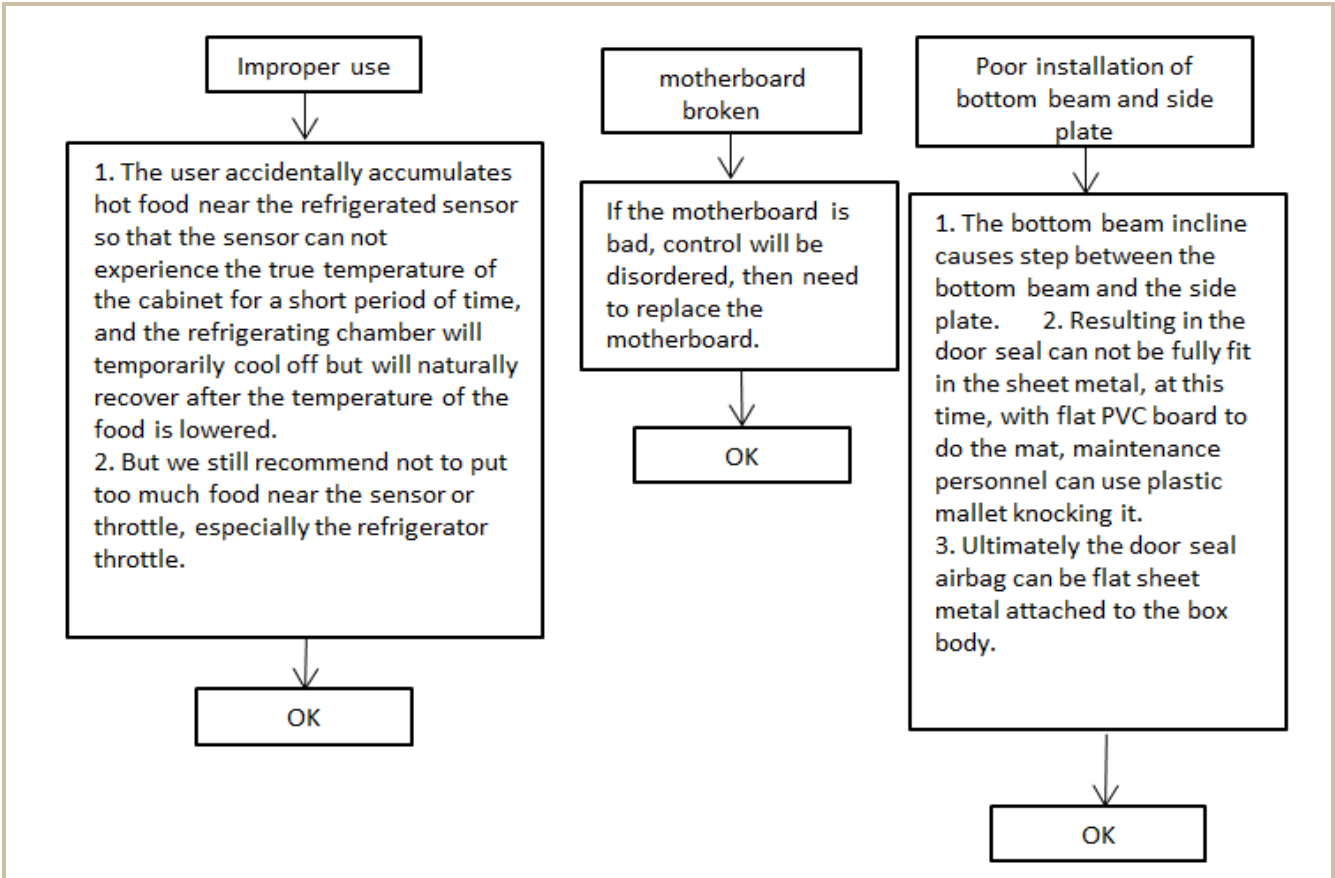


### 12.4 Inside frosting, no defrosting

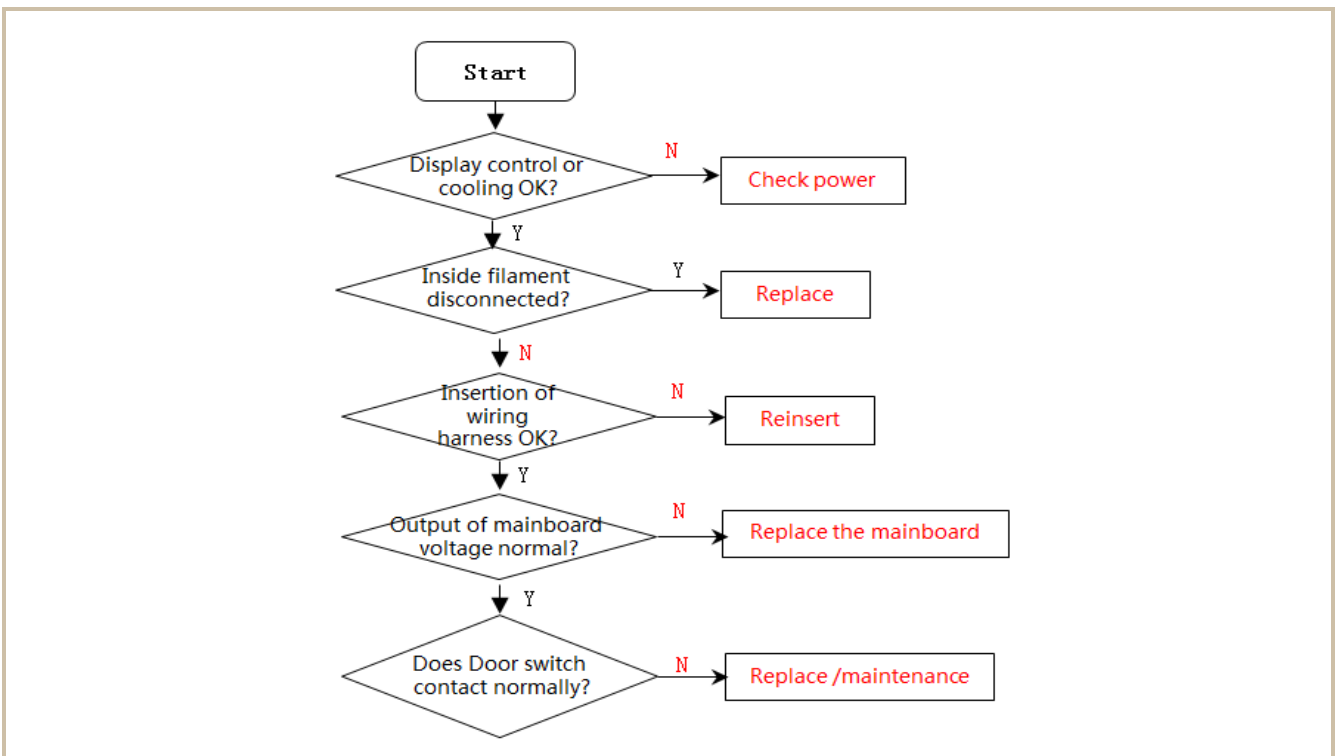


### 12.5 Inside frosting, no defrosting-Maintenance guidelines

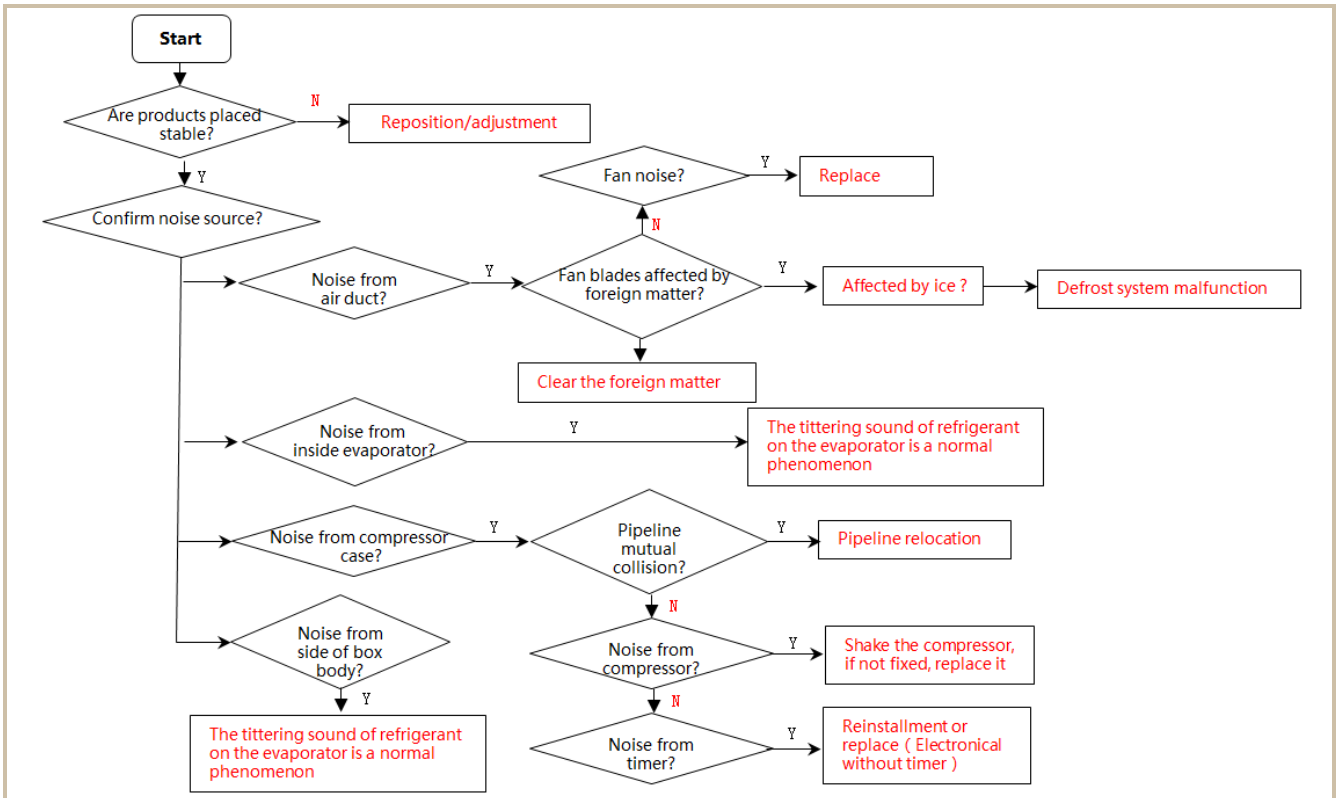




**12.6 Light is not on**



## 12.7 Noise



## 13. Figures and details of repair parts

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See this section in the TSP.

### Entry Guidelines ( TSP System )

#### ■ Where

Chrome

  
<https://tsp.midea.com>

#### ■ How

- Midea user: Same as your [MIP](#) account & password.
- Overseas customer:

**Account:** Generated by TSP (provided by administrator).

*Each customer have a code in Midea Group, G/E + seven numbers.*

*If you buy different categories from Midea group, you can see all the product information by one account.*

**Password:** abcd1234 (please revise after login in).

*If the input error more than 5 times, account will be locked, need the administrator to unlock.*



#### **Admin team:**

REF: Jamie Liu([liujc5@midea.com](mailto:liujc5@midea.com))

IT: Martin He([dingding.he@midea.com](mailto:dingding.he@midea.com))



**ON LINE  
ANY TIME  
ANY WHERE**



The symbol on the product or its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste for recycling, please contact your local authority, or where you purchased your product.



### **MIDEA appliances after sales website**

For more information about Midea appliances after sales, please visit the [tsp.midea.com](https://tsp.midea.com)

For more information about the service manual, please visit the [tsp.midea.com](https://tsp.midea.com)

For more information about the EV and SBOM, please visit the [tsp.midea.com](https://tsp.midea.com)



### **How to login TSP system**

Use Google browser visit the <https://tsp.midea.com/>

#### **Internal User:**

Use MIP account and Password.

#### **Customer:**

Access: Generated by TSP (provided by administrator).

Password: abcd1234 (please revise after login in).

## **Midea Refrigerators**

If you need to get detailed technical information from the manufacturer, please contact:

xxx@midea.com

**Refrigeration Division**

**Overseas Sales Company**

Address: No. 176, Jinxiu Avenue, Economic-Technological Development Area, Hefei, Anhui, China