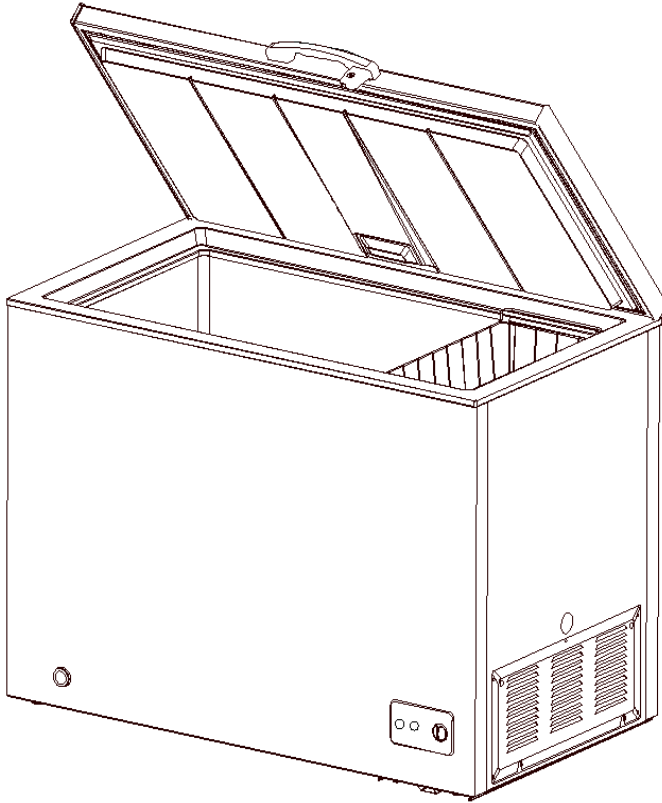


Service Manual

CHEST FREEZER SERIES




Applicable Models	Model Code
CE-BD138- FT	22032010002321
CE-BD194- FT	22032010003141

Prepared by	R&D:Zhouwd2
Reviewed by	QA:WuXinbin SVC:Zhang Kun
Approved by	R&D:ZhangHuawei SVC:GuangTaoshuai

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



 **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. Safety Warning Code

1.1 Warning for operation safety

Important Safety Instructions

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
	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.

1.2 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.

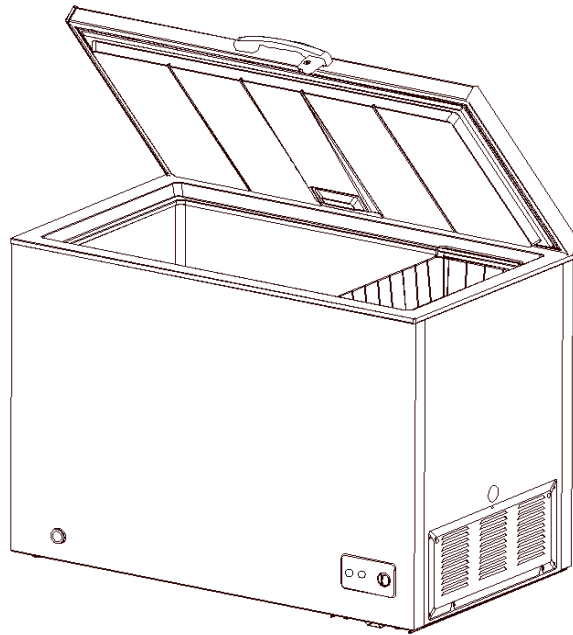


Safety instruction for refrigerant

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.

2. Description for product features

This product is provided with following features:



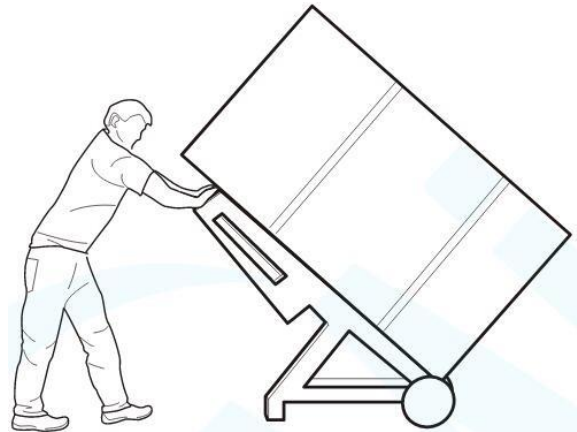
- 1) Square shaped temperature control panel, two or three indicator light

3. Installation and commissioning

3.1 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, then move into house for placement
- 3) After moving it to appropriate location, wait for 2 hours before power on.



3.2 Door Disassembly and Assembly

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
-----------------------------	------

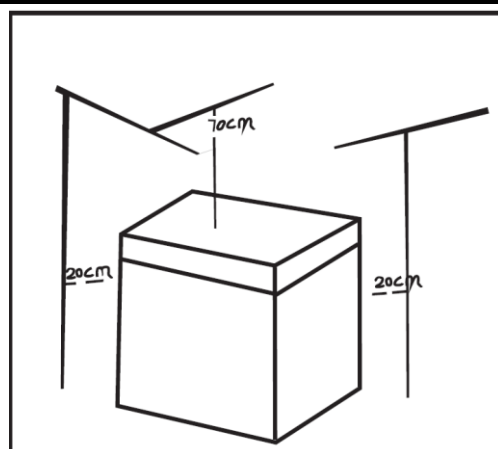
Disassembly of refrigerator door

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

3.3 Installation location

Installation location

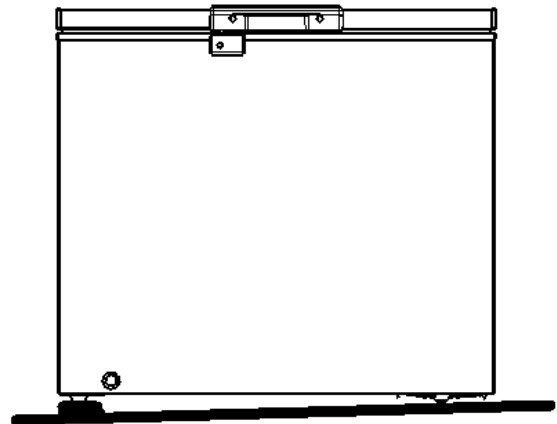
Location that is easy for ventilation shall be chosen to facilitate heat dissipation, enhance its performance and reduce the energy consumption.



3.4 Leveling of the refrigerator

Leveling of the refrigerator

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



3.5 Door reversal

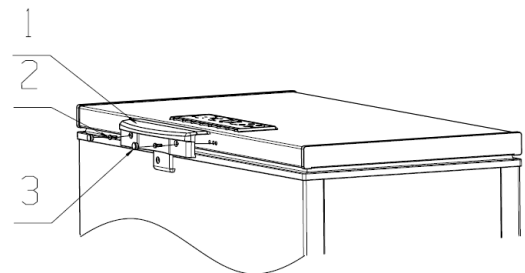
Door reversal

Door reversal	None
---------------	------

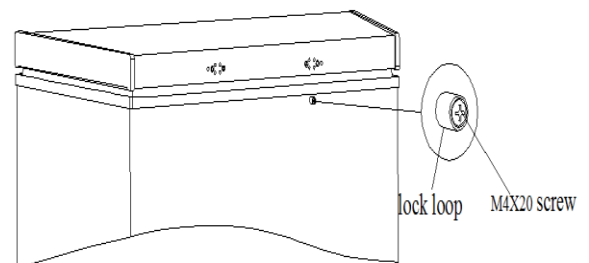
3.6 Installation of handle

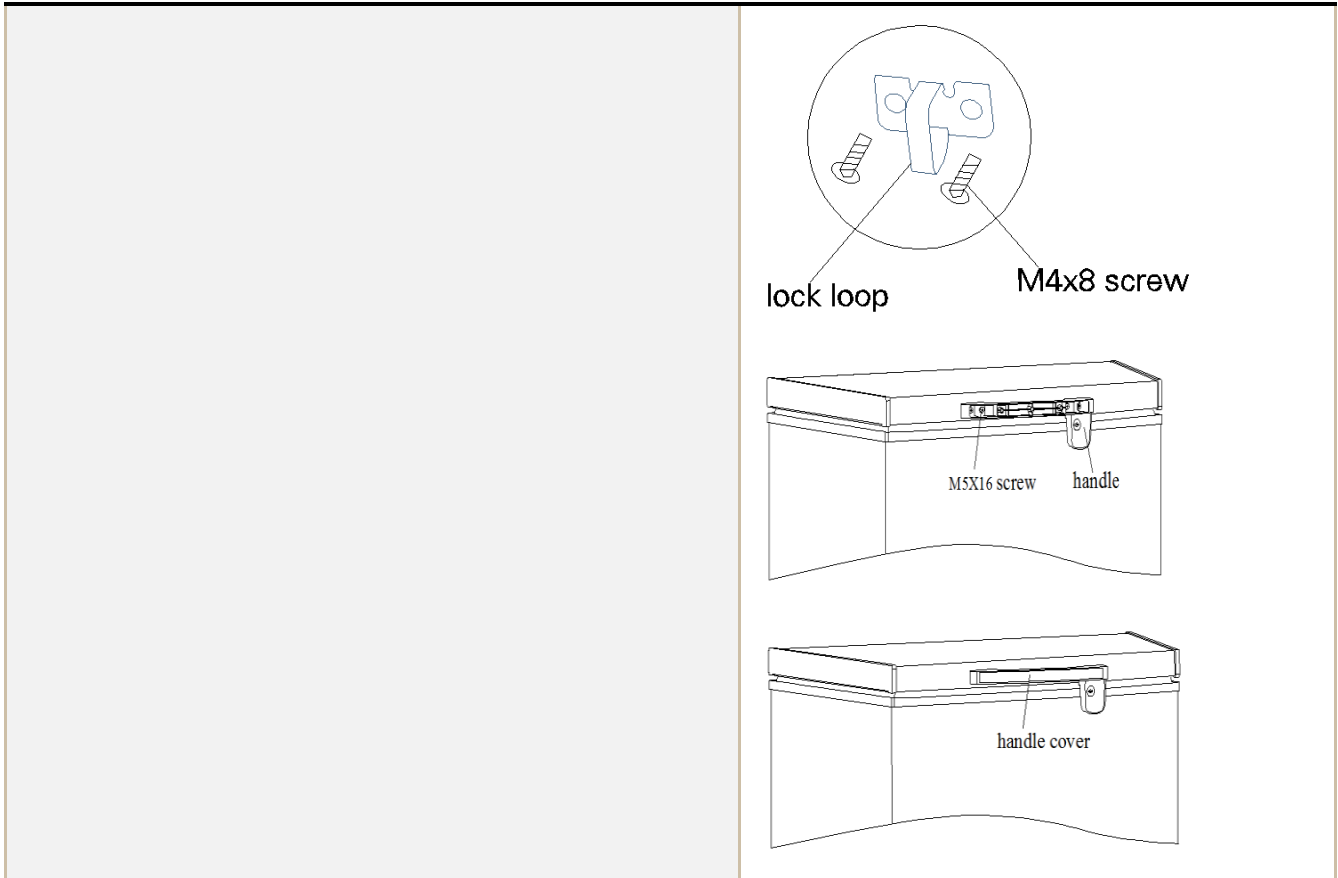
Installation of handle

- 1- Handle
 - 2- M5*14 screw(two)
 - 3- Screw hole cover (two)
- 1) The handle is inserted below the display control board of door, aligning with the screw hole.
 - 2) Fixing the handle by using the screw.
 - 3) Assemble the screw hole cover onto the screw hole.



1. Fix the lock loop to its mounting hole near the frame in the front side plate of the box with a M4x20 or M4x8 screw. Pay attention to the direction of the lock loop with its countersunk side facing outwards.
2. Hold the handle with the left hand, and aim its mounting hole at the mounting hole of the door. Insert the key into the keyhole with the right hand, and then turn the key clockwise to drive the rotation of the lock hook. Meanwhile, adjust the position of the handle from side to side in a proper manner to ensure the lock hook can hook the lock loop in locked state. Afterwards, fix the handle to the door with four M5X16 screws.
3. Install the handle cover





3.7 Installation of door lock

Installation of door lock	
Installation of door lock	With the door handle together

3.8 Adjustment to level the door

Adjustment to level the door	
Adjustment to level the door	None

3.9 Adjustment to shelves

Adjustment to shelves	
Adjustment to shelves	None

4. Terms

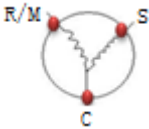
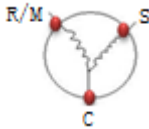
4.1 Definition of model (None)

4.2 Location of nameplate(None)

5. Product specification

5.1 Type specification(None)

5.2 Electrical parameters

Product Name	CE-BD138-FT	CE-BD194-FT	None	None
Product Code	22032010002321	22032010003141	None	None
Item	Specification	Specification	Specification	Specification
Compressor	SZ80E1H-SCL	SZ90E1H-SCL	None	None
Starter(PTC)	8EA19C1	8EA19C1	None	None
Overload protector(OLP)	3TM181TF2	3TM181TF2	None	None
Winding resistance of compressor wiring terminal	Rmc:22.19-19.28Ω Rsc:18-15.7Ω Rms=Rmc+Rsc	Rmc:22.19-19.28Ω Rsc:18-15.7Ω Rms=Rmc+Rsc	None	None
Winding resistance picture			None	None
Variable frequency driver board	None	None	None	None
The input power of compressor	115.7W	115.7W	None	None
Fan motor of the freezing chamber	None	None	None	None
Ventilation door of the refrigerating chamber	None	None	None	None
Condensation fan	None	None	None	None
separation the ice motor	None	None	None	None
ice output motor	None	None	None	None
Open door motor	None	None	None	None
Lights inside the freezing chamber	None	None	None	None
Lights inside the refrigerating chamber	None	None	None	None
Switch of the refrigerator door	Hammer switch	Hammer switch	None	None
Indicator lamp	Power+run	Power+run	None	None

5.3 Inside temperature

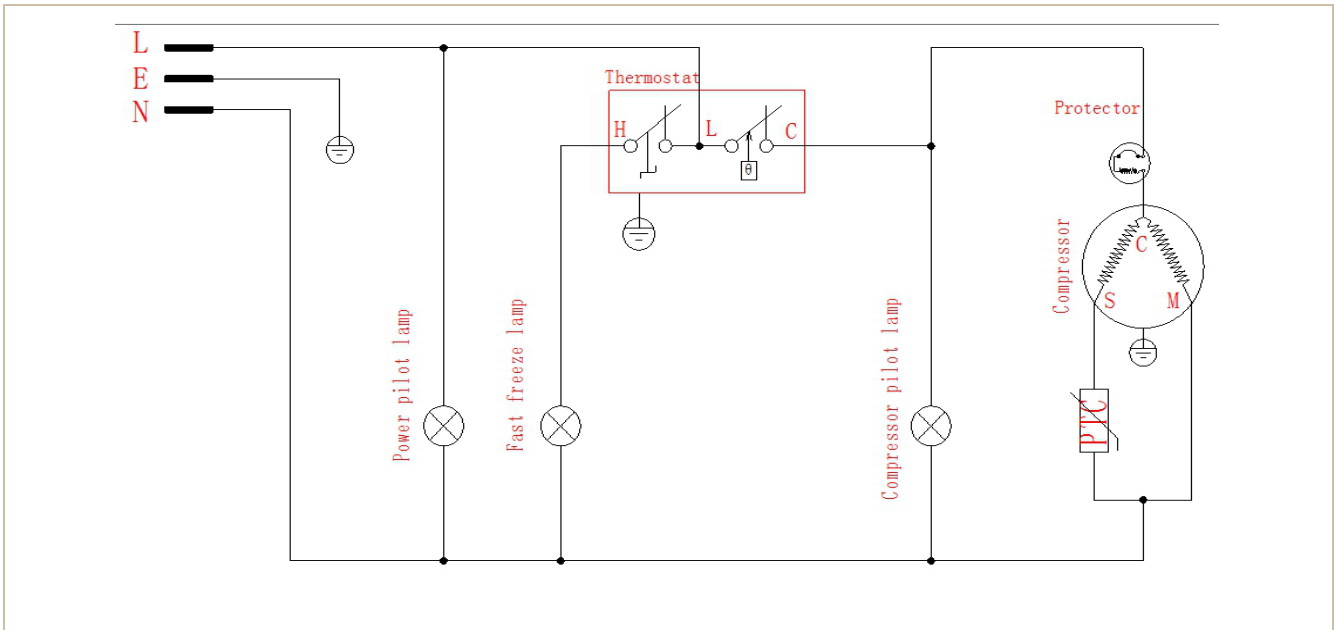
Temperature tolerance $\leq 2\text{ }^{\circ}\text{C}$

Compartment	The highest ($^{\circ}\text{C}$)	Lowest ($^{\circ}\text{C}$)
Freezing	-14	-24
Refrigerating	None	None
Variable temperature	None	None

5.4 Defrosting parts

Item	Initial defrosting period	Normal defrosting period
Defrosting period	None	None
Defrosting sensor	None	None
Defrosting temperature controller	None	None
Thermal fuse	None	None
Defrosting heater in freezing chamber	None	None

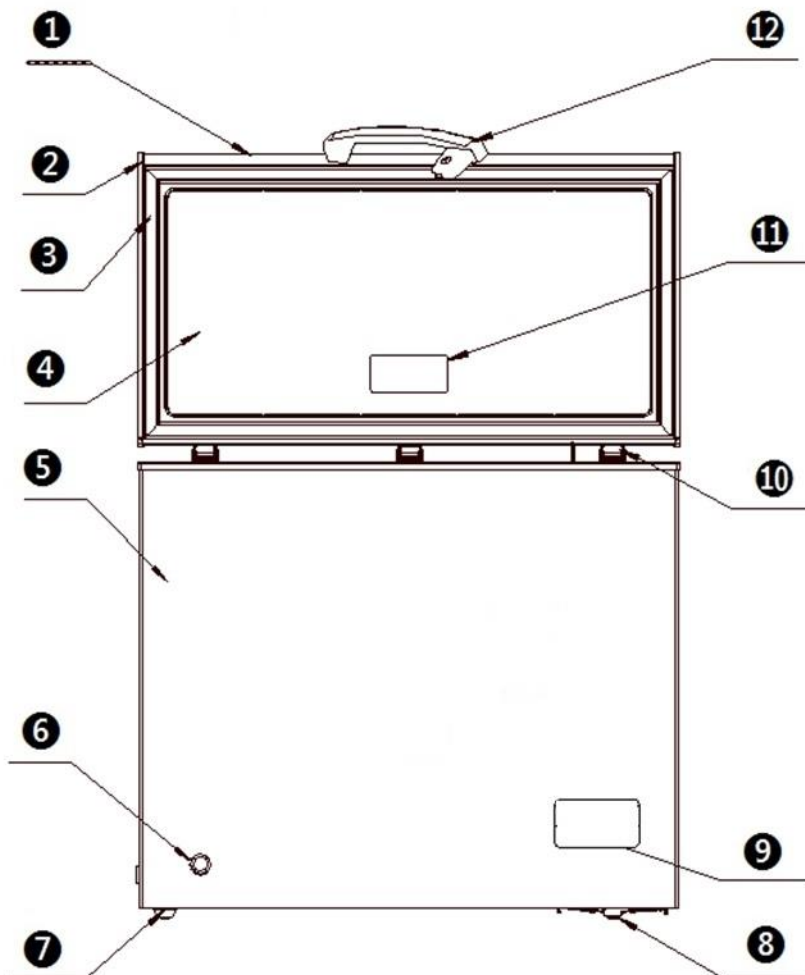
5.5 Circuit diagram



6. Internal view and dimension

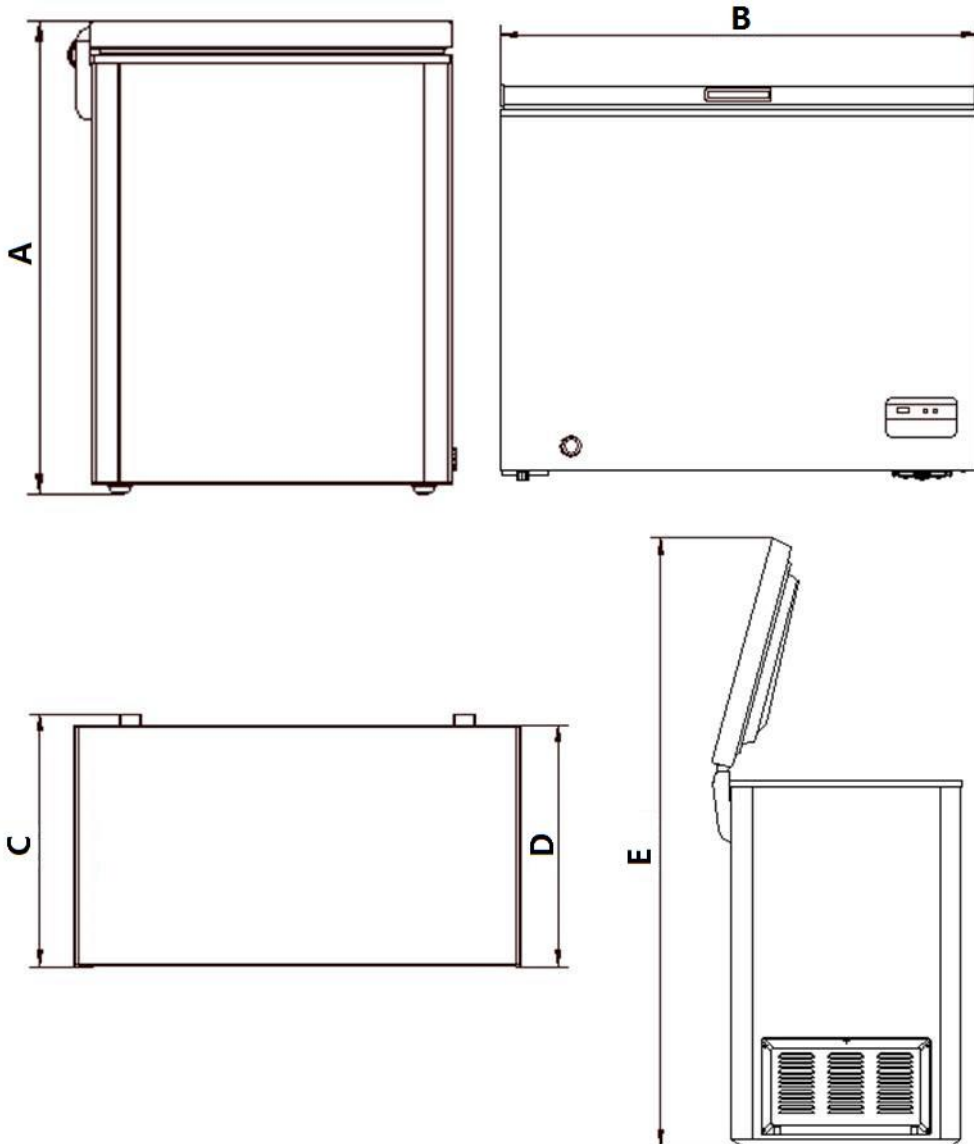
6.1 Main parts and their names

Freezer chamber	Freezer chamber
① Door shell	⑦ Levelling feet
② The door end cover	⑧ Compressor mounting panel
③ Door gasket	⑨ Temperature-control panel
④ Door liner	⑩ Hinge
⑤ Cabinet assembly	⑪ Lamp cover
⑥ Drain-pipe cover	⑫ Door handle



6.2 External dimension

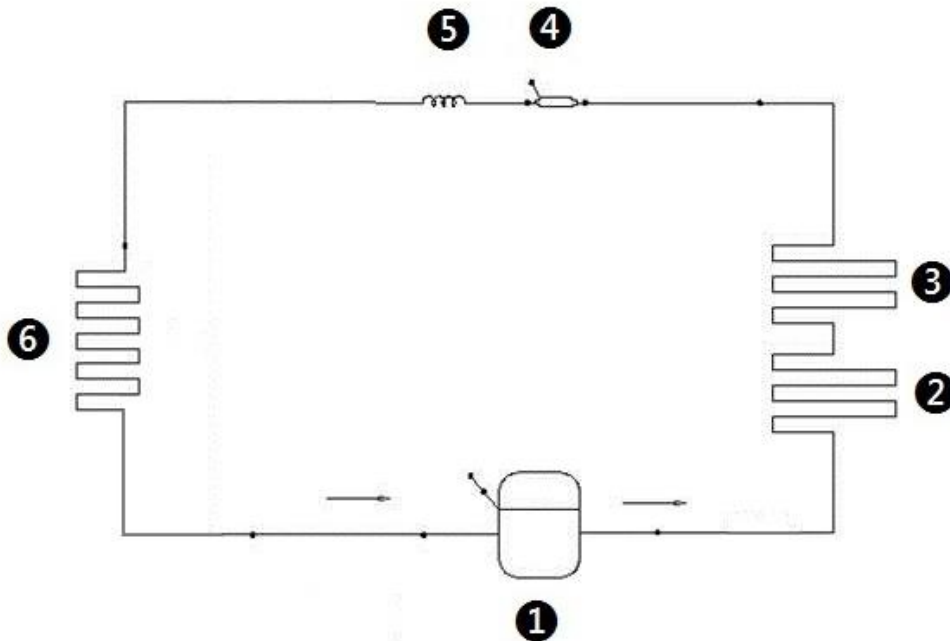
Description	Code	Size (mm)		
		BD99	BD142	BD198
Height to Top of Case	A	850	850	850
Width	B	565	730	945
Depth/Hinge	C	523	523	523
Depth	D	500	500	500
Height (Door open)	E	1320	1320	1320



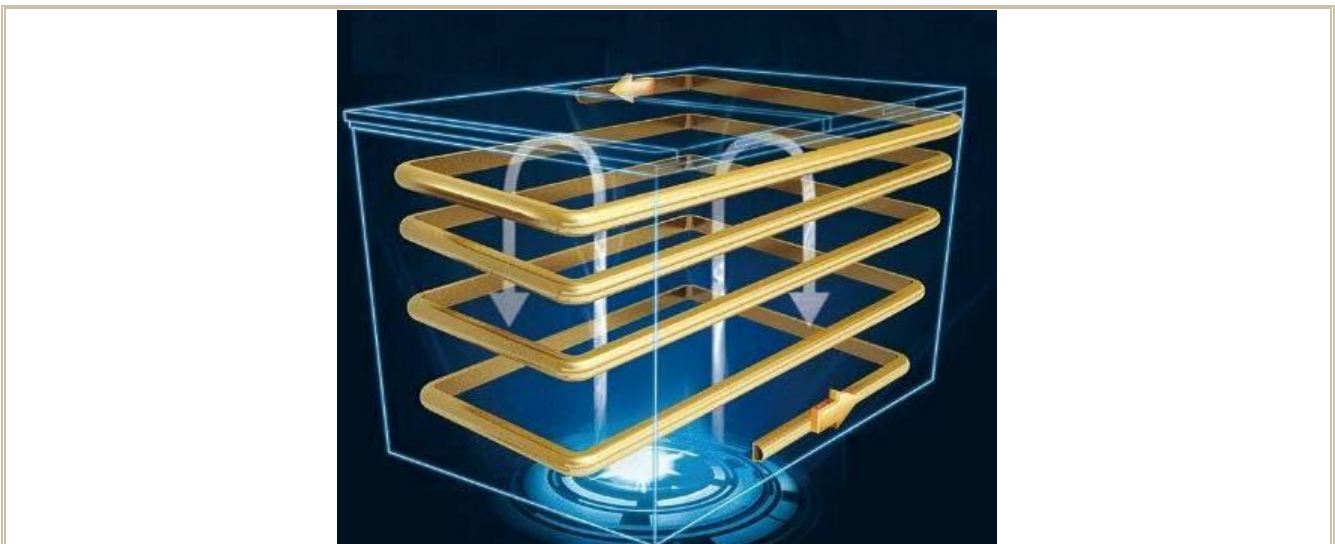
7. Refrigerating piping system and circulating route of cooling air

7.1 Refrigerating piping system

① Compressor → ② Right condenser → ③ Left Condenser → ④ Dry filter → ⑤ Capillary tube → ⑥ Evaporator

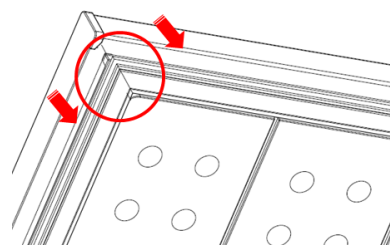
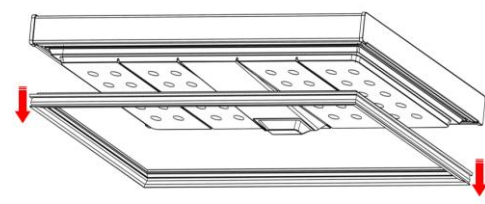
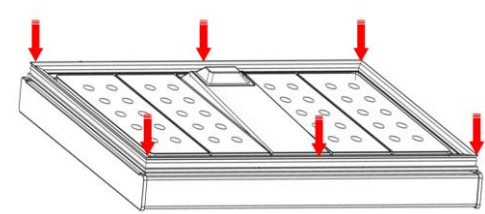
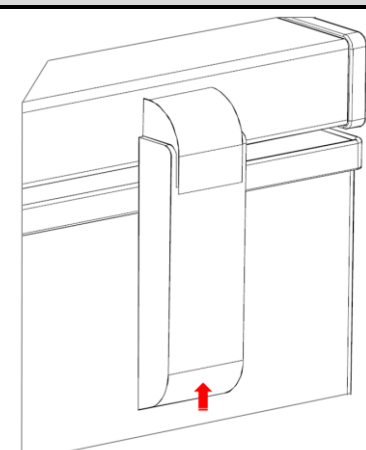


7.2 Circulating route of cooling air

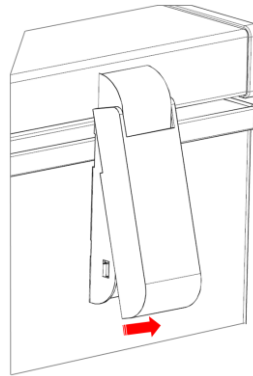


8. Dismantling of parts

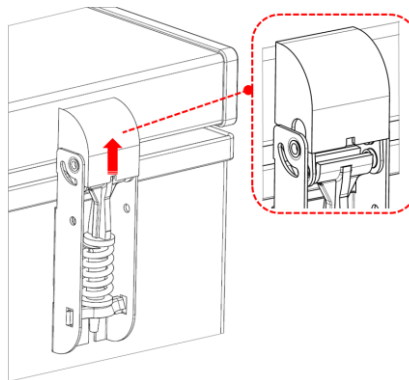
8.1 Parts on the door

Door seal	
1) Pull the door seal from the corner	
2) Take efforts until door seal totally detaches from door inner liner groove, remove the door seal	
3) Fixing the four corners and pressing smoothly.	
The hinge cover	
1) Push the hinge cover from the bottom to the top and appear displacement for the hinge cover.	

2) Pull down hinge cover from the bottom.



3) Slap forcefully the top hinge cover with the palm, and wear safety gloves for fear of cutting the hand. After the displacement, pull down the hinge cover.



Door light disassembly and assembly

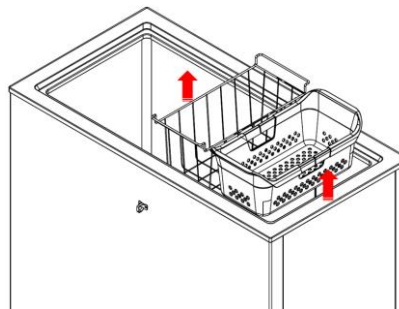
Door light disassembly and assembly

None

8.2 Parts inside the refrigerator

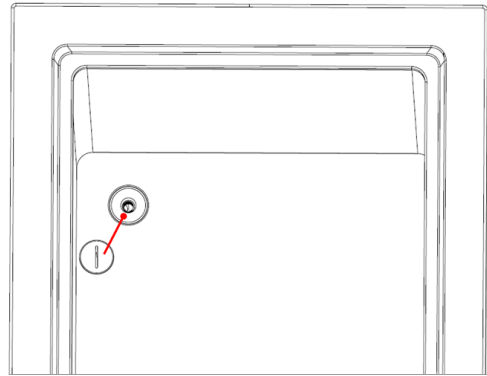
Basket

Open the door and removed the basket



Inside water pipe cover

Counterclockwise to remove the pipe cover


Ice tray

Ice tray	None
----------	------

8.3 Light system
Light

Light	None
-------	------

Light switch

Light switch	None
--------------	------

Indicator lamp

Indicator lamp	POWER
----------------	-------

8.4 Evaporator and temperature sensing system
Freezer sensor

Freezer sensor	None
----------------	------

Ambient temperature sensor

Ambient temperature sensor	None
----------------------------	------

Thermostat

Electronic control/Machine	machine
----------------------------	---------

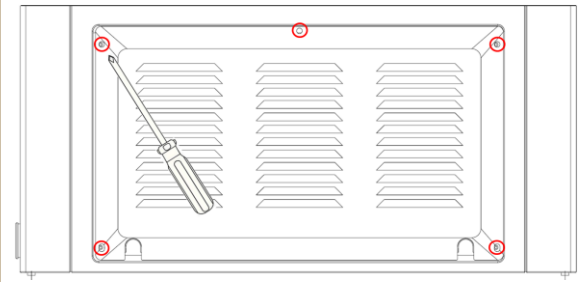
8.5 Condenser system
Condenser

Condenser	Inside
-----------	--------

8.6 Compressor case

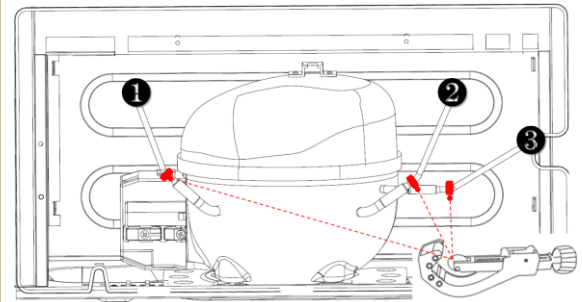
shutter and compressor case	
-----------------------------	--

Pull down the screw, open the shutter.



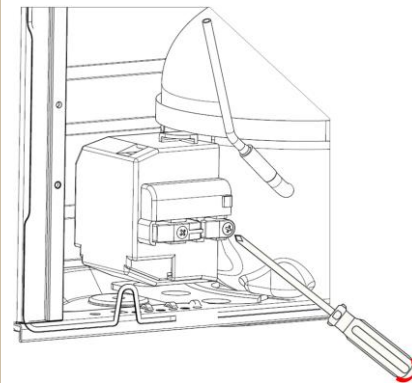
Compressor and the cooling system pipe

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



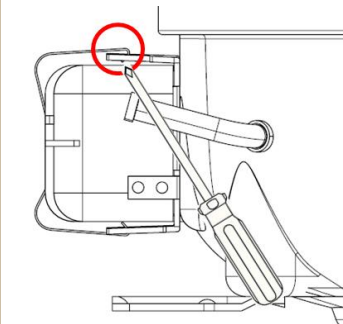
2-1) Remove the screws(for some models)

- Two screws outside
- One screw inside



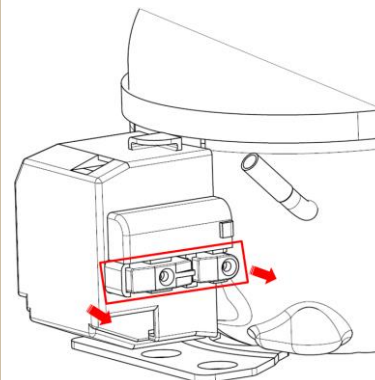
2-2) Remove the metal clamp(for some models)

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



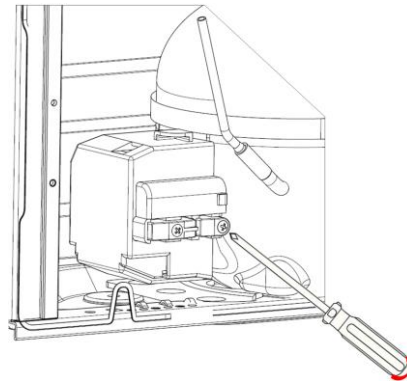
3) Remove the clipping strip

Slowly pull it out



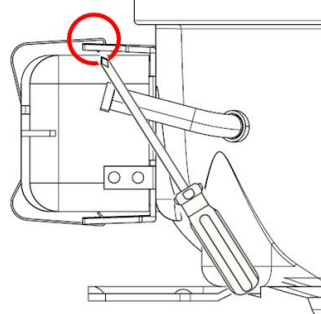
4-1) Remove the screws(for some models)

- Two screws outside
- One screw inside



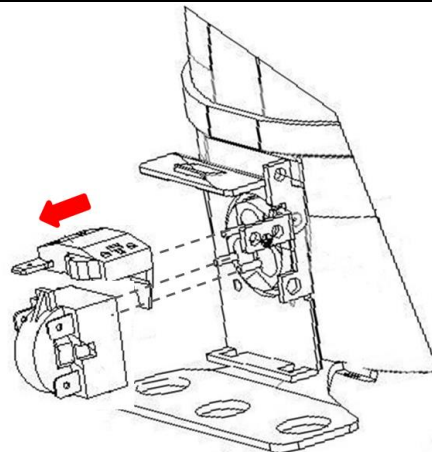
4-2) Remove the metal clamp(for some models)

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

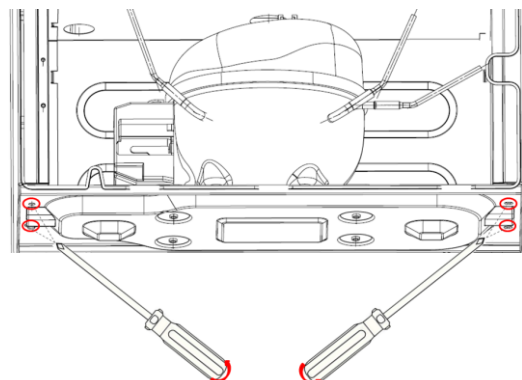


5) Remove the starter and protector

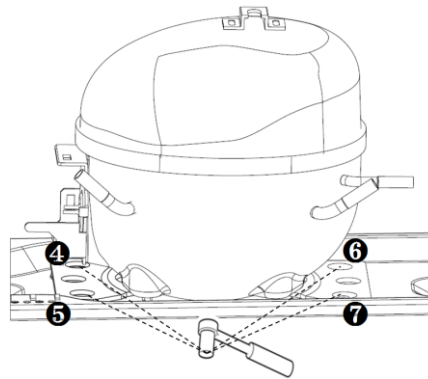
- Unplug the starter and protector (you can use a screwdriver to pry it slowly)



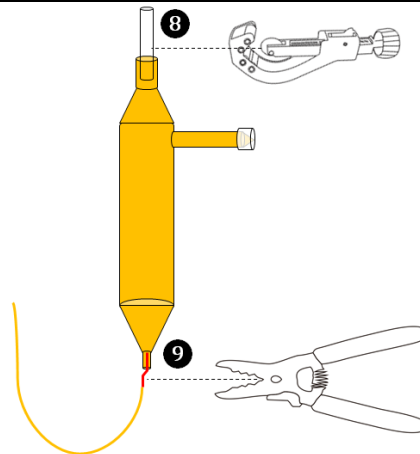
- 6) Loosen the screw of the compressor bottom plate,**
 remove the floor together with the compressor from the box.



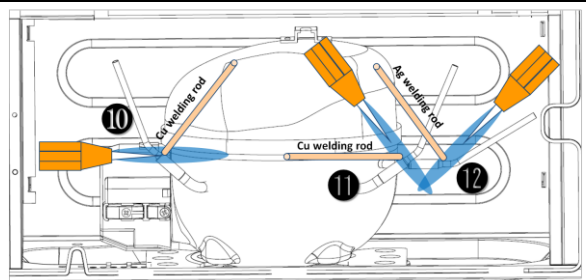
7) Use the wrench to remove the bolts by steps ④ ⑤ ⑥ ⑦, replace the compressor and reverse process can complete installation.



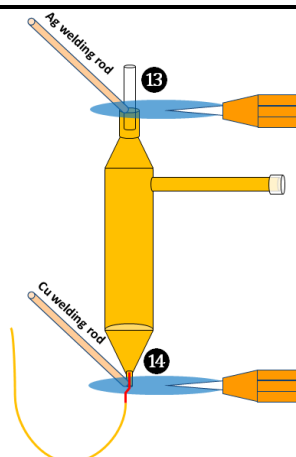
8) Use Pipe cutter cut off the condenser tube ⑧, then Shear off capillary ⑨ by the capillary tube scissors.



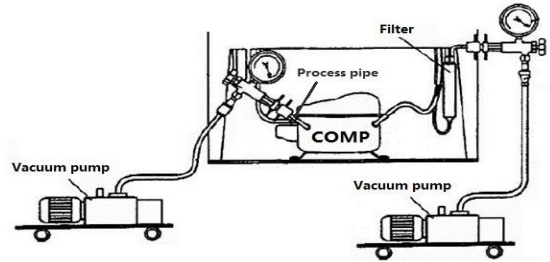
9) Replace the compressor and welding the compressor pipeline.-⑩Welding the process pipeline.-⑪Welding the low-pressure muffler.-⑫Welding the high-pressure exhaust pipe.



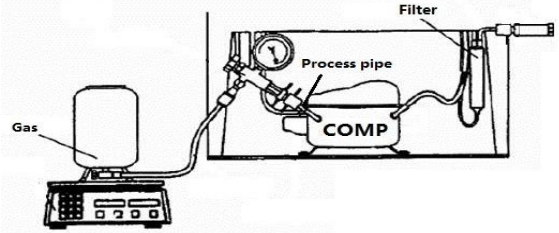
10) Replace the filter, Cu-Fe tubes welding ⑬ used Ag welding rod, Cu-Cu tubes welding ⑭ used Cu welding rod.



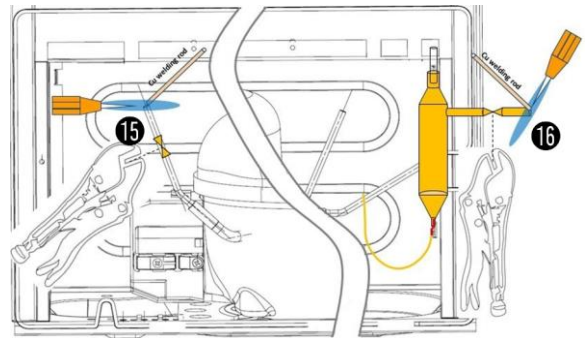
11) Vacuum system, The degree of vacuum below 6Pa.



12) Perfusion refrigerant.



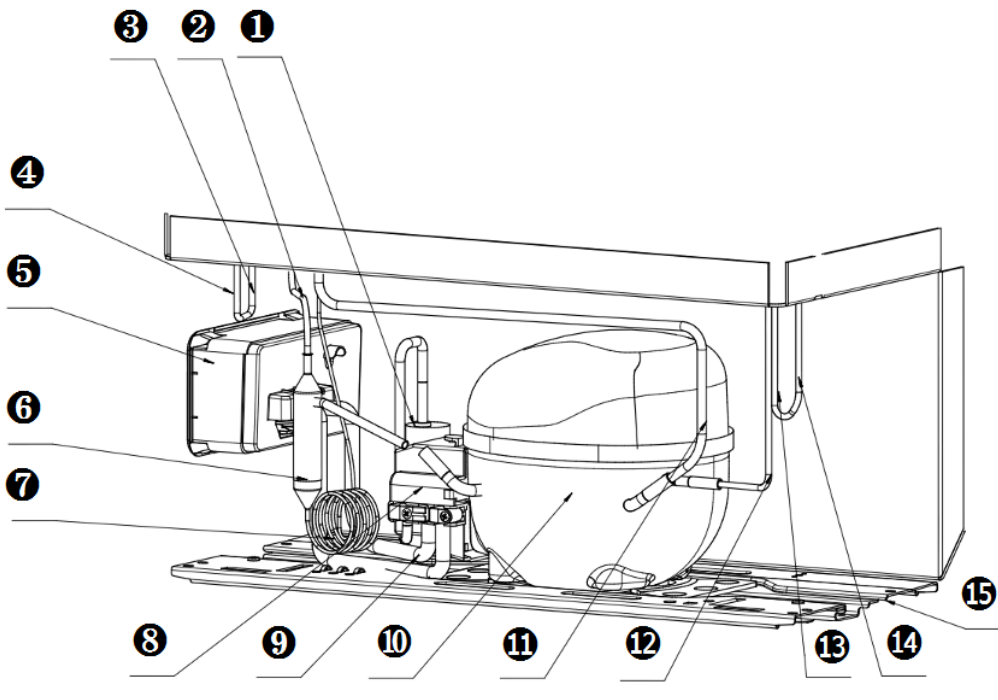
13) Use the vise grip pliers clamp the middle of the process pipe, then seal welding process tube 15 16.



Piping system in the compressor case

- ① Capacitor
- ② -1 Front condenser pipeline-1
- ③ -2 Rear condenser pipeline-2
- ④ -1Anti-dew pipe-1
- ⑤ Temperature-control box assembly
- ⑥ Drying filter
- ⑦ Capillary
- ⑧ Protective cover
- ⑨ Wires

- ⑩ Compressor
- ⑪ Suction Pipe
- ⑫ -1 Rear condenser pipeline-1
- ⑬ -2 Front condenser pipeline-2
- ⑭ -2Anti-dew pipe-2
- ⑮ Compressor Assembly Board

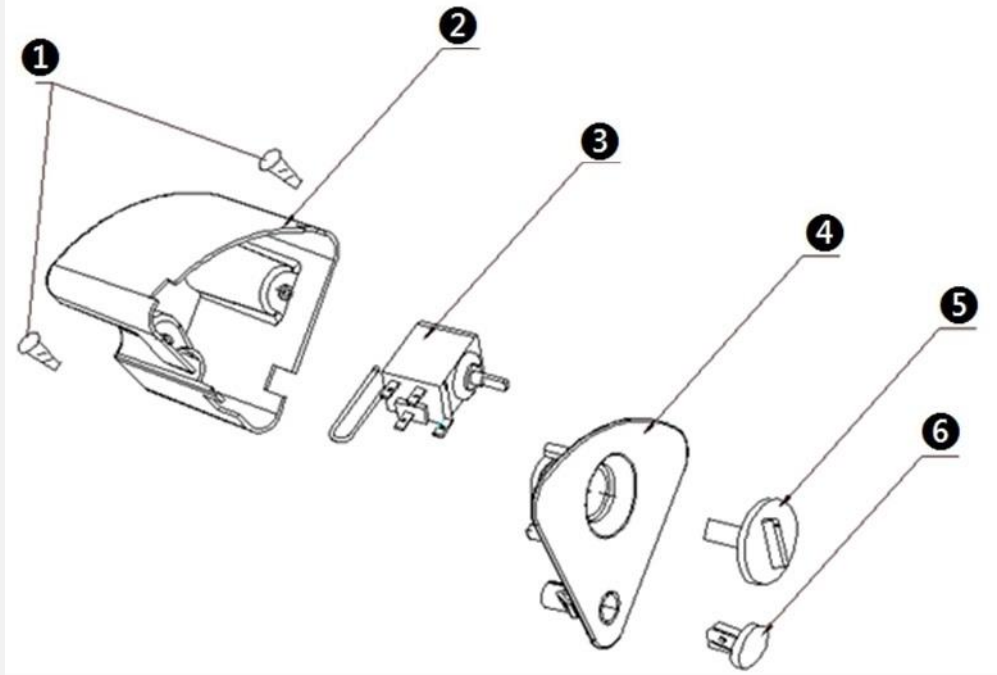


Condenser fan motor

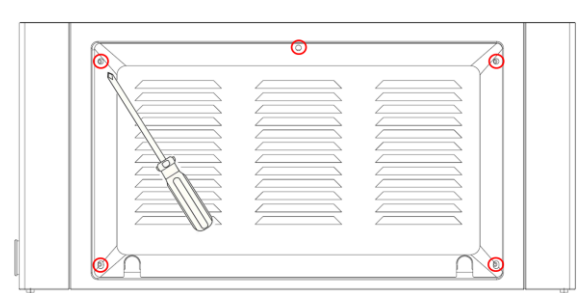
Fan motor	None
Standby condenser	None

8.7 Temperature-control box assembly view

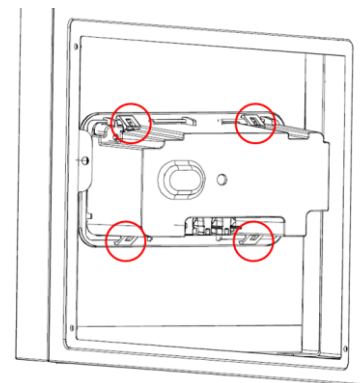
Temperature-control box assembly view	
① screw	④ Temperature-control panel
② Temperature-control box	⑤ TEMP. control knob
③ Thermostat	⑥ Indicator light


Destuffing

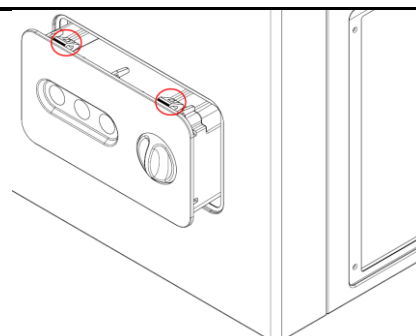
1) Pull down the screw, open the shutter.



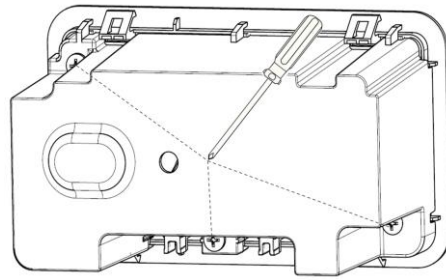
2) Take out of temperature control box assembly by pressing shrapnel with the hands. Note:there are four shrapnel separately in the four corners,require enough strength to press shrapnel. Suggest pressing one and pushing toward the corner, as the above one by one.



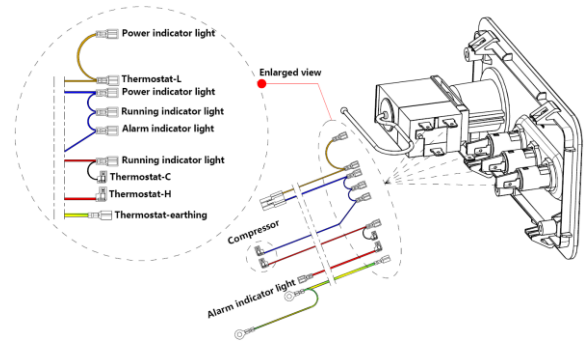
3) Take out of temperature control box assembly after four corner pushed out.



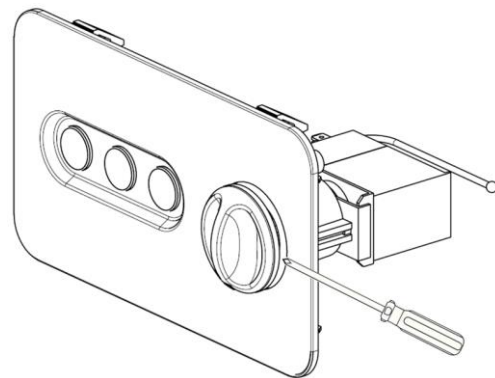
4) Remove the control box screw, take out the control box cover



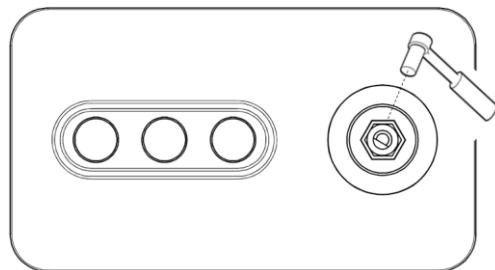
5) Pull out the wiring harness and indicator light



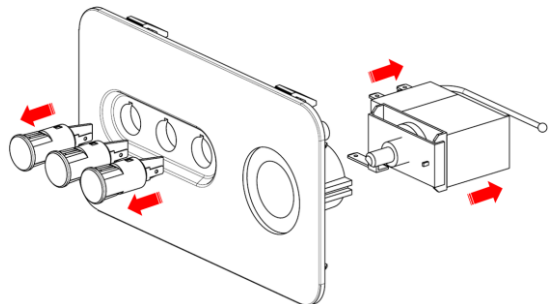
6) Pull out the control knob



7) Pull out the fixed nut of the thermostat



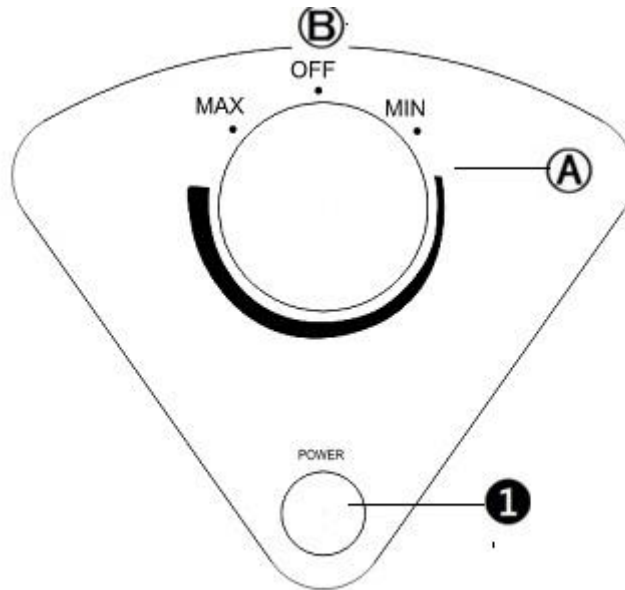
8) remove the indicator light and thermostat, the reverse operation is for assembly



9. Function and operation

9.1 Operation panel

Icons	Button
① Power indicator	Ⓐ "MIN-MAX" freezer gear Ⓑ "OFF"



9.2 Temperature control

- 1) Connect the freezer to power supply and "Power" indicator (the green light) will shine.
- 2) The interior temperature of the freezer is adjusted through the thermostat knob, Clockwisely rotate the thermostat knob and the interior temperature will drop. " MIN " is the warmest setting, " MAX " is the coldest setting
- 3) "OFF" gear is the compressor stop working.

9.3 give an alarm

"ALARM" indicator light when the inside temperature is too high.

9.4 Defrosting

Unplug the freezer and open the freezer door, remove foods and drawers before defrosting; Open the outflow holes and drainage holes (and place water container at the outflow holes); indoor frost will naturally melt, wipe the defrost water with a dry, soft cloth. When the frost softens, an ice scraper might be

used to the accelerate de-icing process.

- Please remove the food and put in a cool place when defrosting before removing accessories.

10. Circuit description

10.1 Power Supply(None)

10.2 Test circuit for door switch(None)

10.3 Temperature test circuit(None)

10.4 Freezer chamber fan motor circuit (None)

10.5 refrigerating chamber fan motor circuit (None)

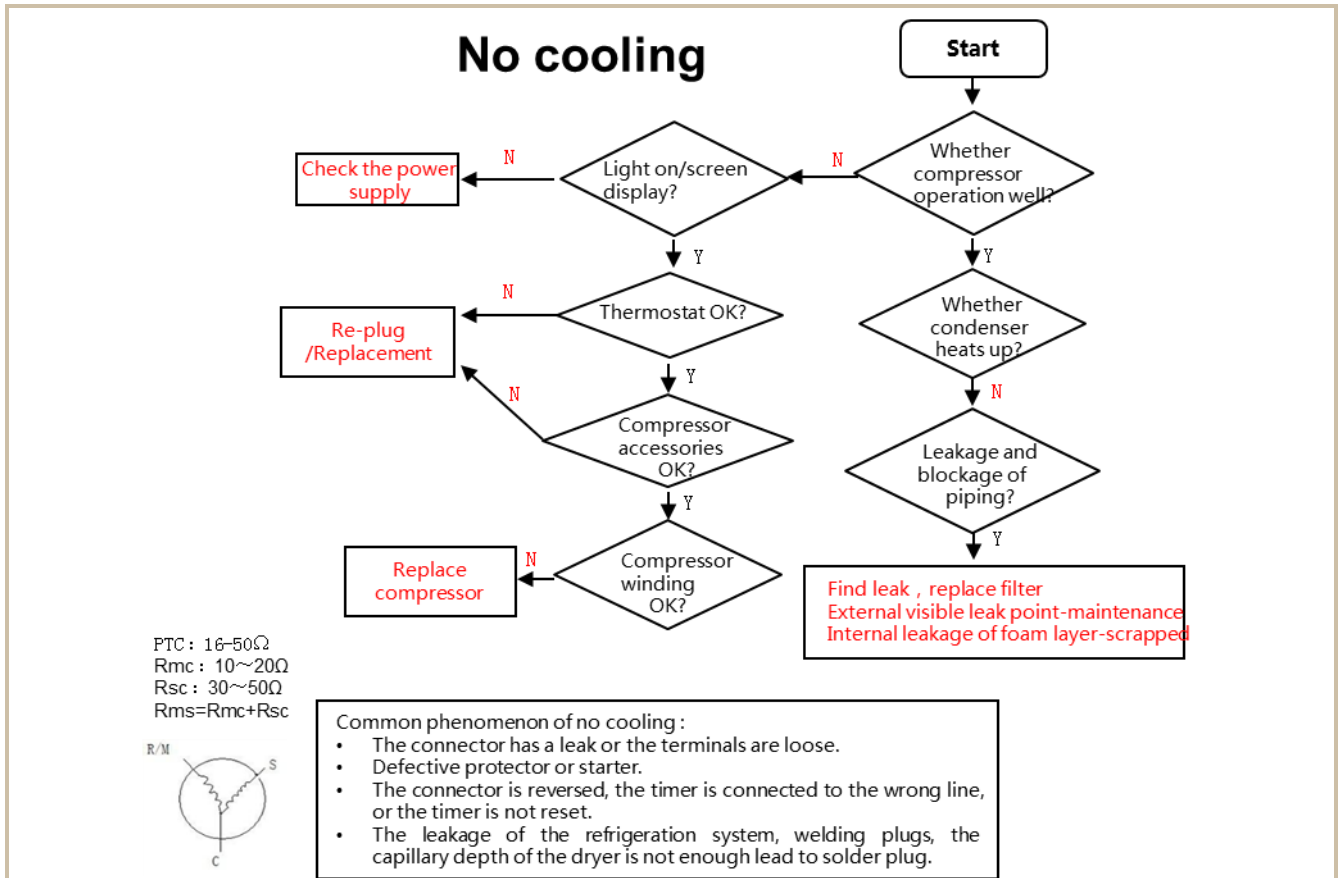
10.6 Condensation fan circuit (None)

10.7 Fan motor circuit of the ventilation door(None)

10.8 Resistance value of the sensor (R/T) (None)

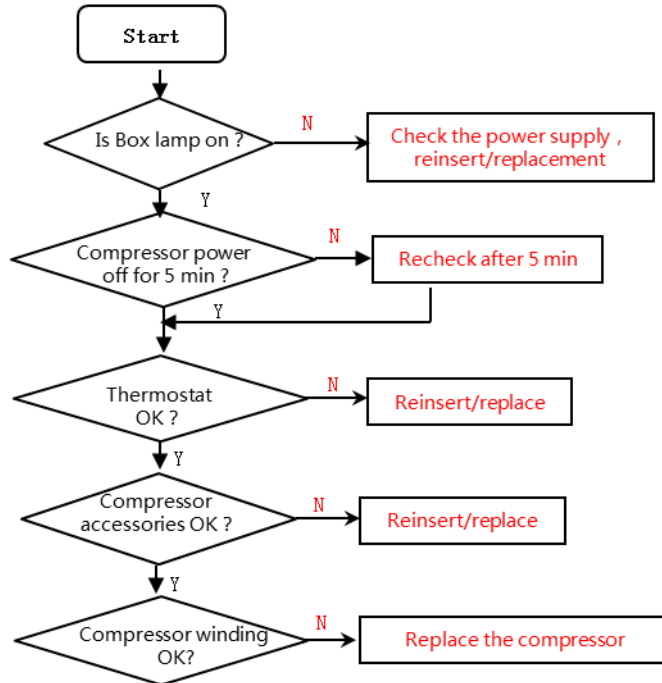
11. Troubleshooting Method

11.1 Not cooling



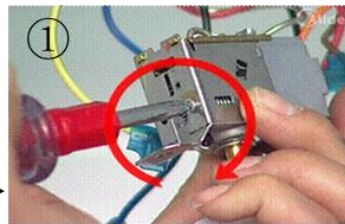
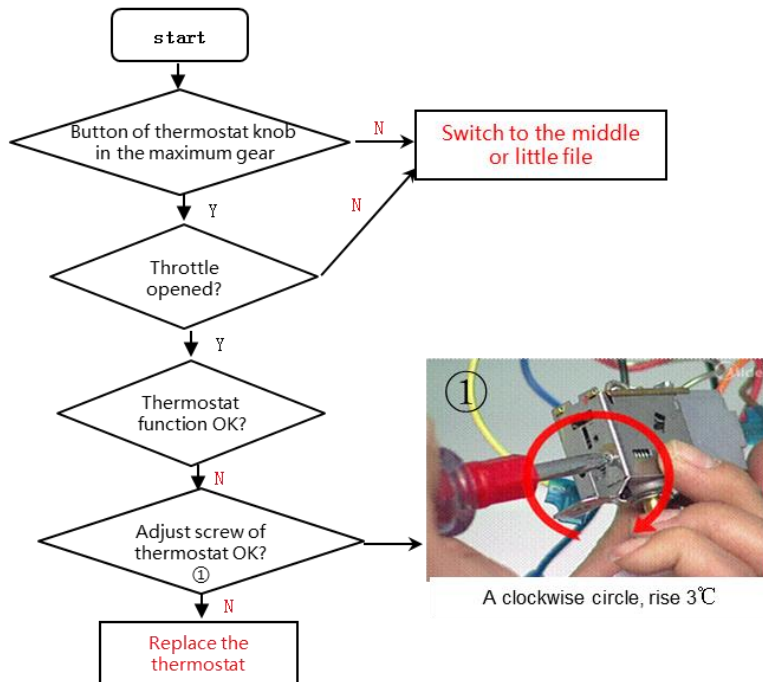
11.2 Not working of compressor

No working of compressor



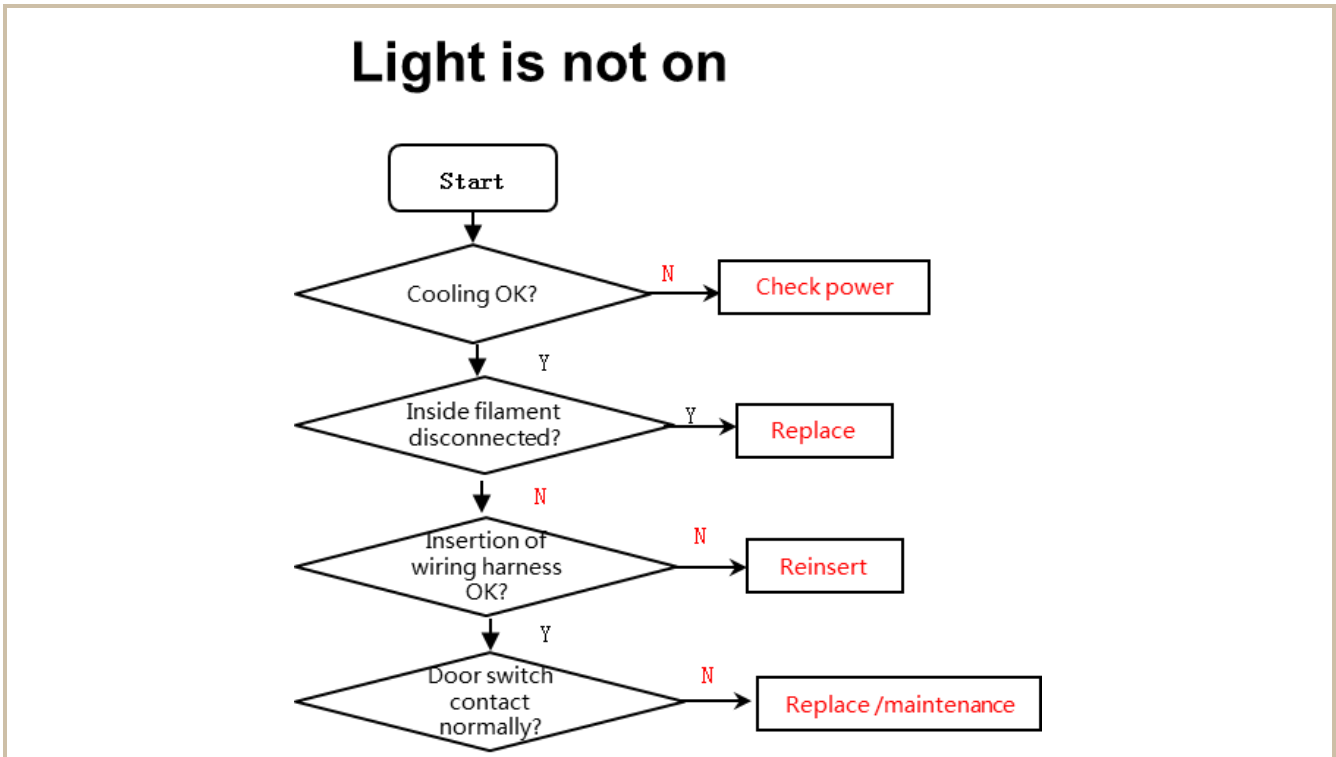
11.3 Thermostat malfunction-Undercooling

Thermostat malfunction-Undercooling

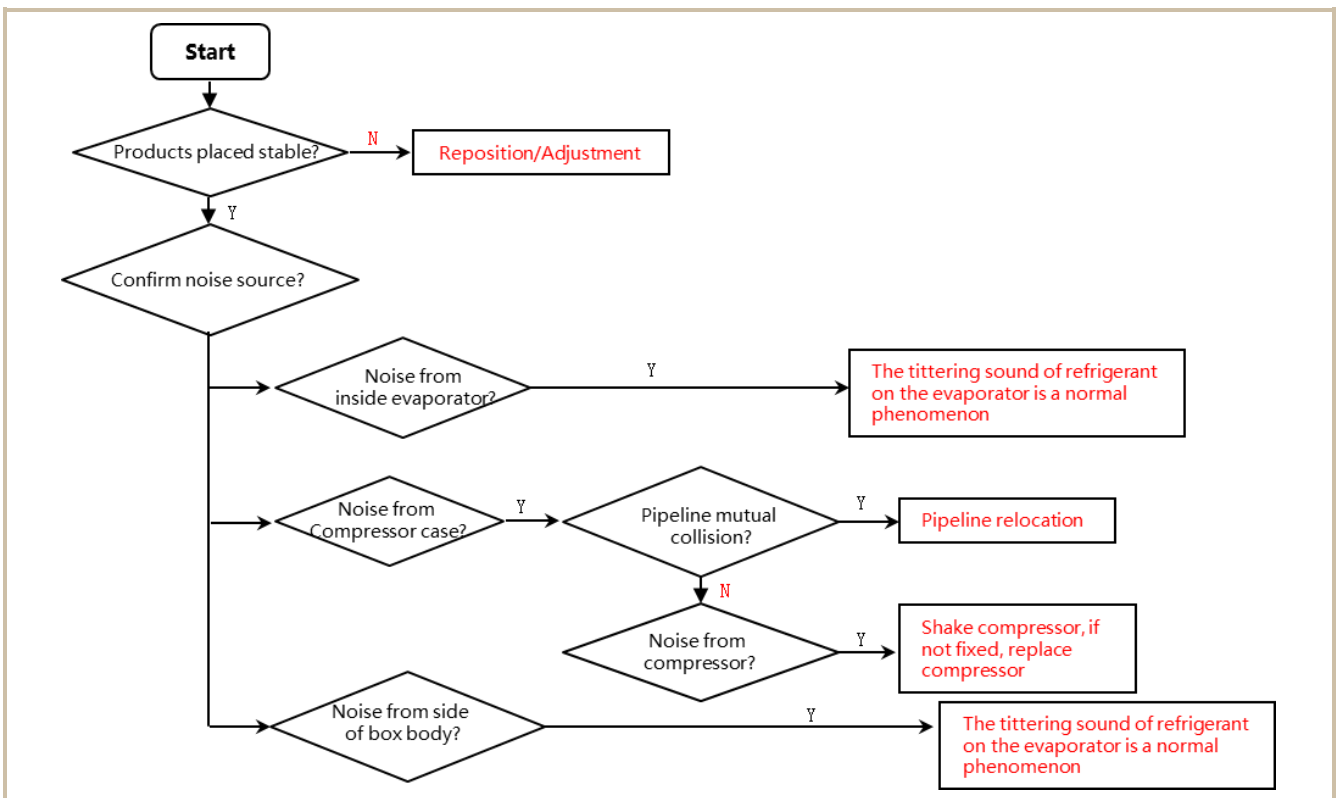


A clockwise circle, rise 3°C

11.4 Light is not on



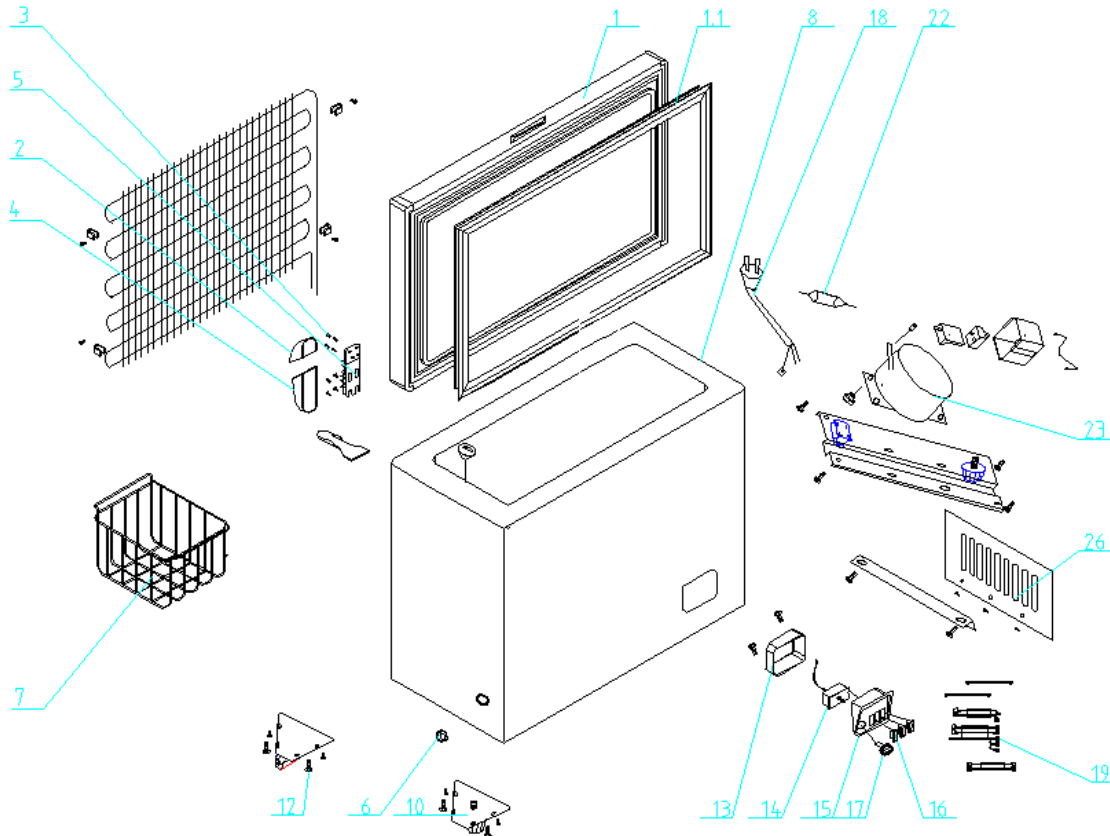
11.5 Noise



12. Figures and details of repair

parts(Documents are provided separately)

12.1 Figures



12.2 List of parts and components

CE-BD138-FT 22032010002321

序号	零部件名称		数量	物料编码
No.	Chinese Name	Part Name	Quantity	BOM Code
1	冷冻室门体总成	Freezer door assembly	1.0	12832000007562
1.1	门封条	Door gasket	1.0	12132000000392
2	上铰链罩	Upper hinge cover	2.0	12132000001075
3	十字槽盘头自攻锁紧螺钉	tapping locking screw	15.0	11303309000081
4	下铰链罩	Lower hinge cover	2.0	12132000001076
5	钣金铰链	Sheet mental hinge	1.0	12232000000481
6	水管盖	drain tube cap	1.0	12132000000362

7	吊篮	Basket	1.0	/
8	箱体总成	Cabinet assembly	1.0	12832000008267
9	十字槽凹穴六角头法兰面自攻螺钉	tapping screw	10.0	11303116000031
10	无轮角板	No wheel corner plate	2.0	12232000000698
11	水管盖	Water pipe cover	1.0	12132000000361
12	十字槽扁圆头自攻螺钉	tapping screw	4.0	11303119000199
13	温控盒	Temperature-control box	1.0	12132000000017
14	普通型温控器	Ordinary type temperature controller	1.0	17431000001327
15	温控面板	Temperature-control panel	1.0	12132000000057
16	指示灯	Indicator hole cover	1.0	17431000000318
17	旋钮	Button	1.0	12131000003600
18	电源线	Power cord	1.0	17431000001097
19	线束	Wires	1.0	/
20	压缩机安装板	Compressor mounting panel	1.0	12232000000709
21	十字槽盘头自攻锁紧螺钉和外锯齿锁紧垫圈组合件	screw assembly	3.0	11300914000023
22	干燥过滤器	Dry filter	1.0	15531000000127
23	工艺管	Processing tubes	1.0	15532000000088
24	组件供货管连接件	Component supplying pipe connector	1.0	/
25	定速往复压缩机	Fixed Speed Reciprocating Compressor	1.0	11101010001987
26	百叶窗	shutter	1.0	12132000000702
27	通风窗	Ventilation window	1.0	12132000002121
28	十字槽盘头凸缘自攻螺钉	tapping screw	3.0	11303125000576

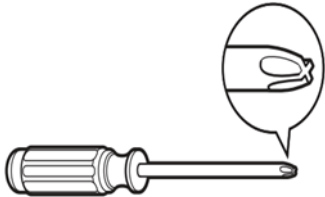
CE-BD194-FT 22032010003141

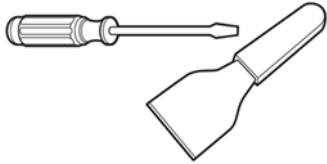
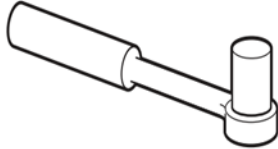


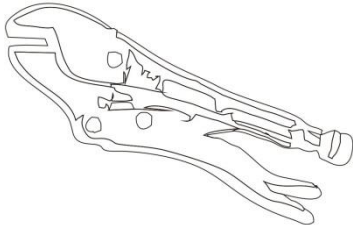

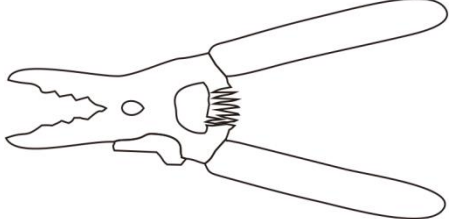
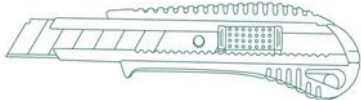
序号	零部件名称		数量	物料编码
No.	Chinese Name	Part Name	Quantity	BOM Code
1	冷冻室门体总成	Freezer door assembly	1.0	12832000000867
1.1	门封条	Door gasket	1.0	12132000000430
2	上铰链罩	Upper hinge cover	2.0	12132000001075
3	十字槽盘头自攻锁紧螺钉	tapping locking screw	15.0	11303309000081
4	下铰链罩	Lower hinge cover	2.0	12132000001076
5	钣金铰链	Sheet metal hinge	2.0	12232000000481
6	水管盖	drain tube cap	1.0	12132000000362
7	吊篮	Basket	1.0	/
8	箱体总成	Cabinet assembly	1.0	12832000007181
9	十字槽凹穴六角头法兰面自攻螺钉	tapping screw	10.0	11303116000031
10	无轮角板	No wheel corner plate	2.0	12232000000698




11	水管盖	Water pipe cover	1.0	12132000000361
12	十字槽扁圆头自攻螺钉	tapping screw	10.0	11303119000199
13	温控盒	Temperature-control box	1.0	12132000000017
14	普通型温控器	Ordinary type temperature controller	1.0	17431000001327
15	温控面板	Temperature-control panel	1.0	12132000000057
16	指示灯	Indicator hole cover	1.0	17431000000318
17	旋钮	Button	1.0	12131000003600
18	电源线	Power cord	1.0	17431000001097
19	线束	Wires	1.0	/
20	压缩机安装板	Compressor mounting panel	1.0	12232000000709
21	十字槽盘头自攻锁紧螺钉和外锯齿锁紧垫圈组合件	screw assembly	3.0	11300914000023
22	干燥过滤器	Dry filter	1.0	15531000000127
23	工艺管	Processing tubes	1.0	15532000000088
24	组件供货管连接件	Component supplying pipe connector	1.0	/
25	定速往复压缩机	Fixed Speed Reciprocating Compressor	1.0	11101010001869
26	百叶窗	shutter	1.0	12132000000702
27	通风窗	Ventilation window	1.0	12132000002121
28	十字槽盘头凸缘自攻螺钉	tapping screw	5.0	11303125000576
29	电容	Capacitor	1.0	17431000001264

13. Appendix






13.1 Refrigerator maintenance tooling and equipment and material









Tooling			
No.	Name	Main Usage	Photo
1	Phillips screwdriver	screw assemble and disassemble	

2	slotted screwdriver/scrapper	screw and rivet assemble and disassemble	
3	Socket spanner 5/16"	hinge and compressor screw assemble and disassemble	
4	Sucker	display panel and air duct cover disassemble	
5	Allen wrench (2.8~4mm)	handle assemble and disassemble	
6	Vise grip pliers	sealing process tube	
7	Nipper pliers/diagonal pliers	Assistive tooling	
8	Capillary tube scissors	Shear capillary	
9	Knife	assistive tool	

10	Pipe cutter, Flaring device	Pipe cutting , flaring	
11	Electronic digital thermometer	Test temperature	
12	Multi meter	Measurement with resistance, voltage, current and so on.	

Equipment

No.	Name	Main Usage	Photo
1	Vacuum pump with gauge	vacuum pumping	
2	Electronic scale	weighing refrigerant/gas	
3	High pressure nitrogen with piezometer	pipe and cooling system(condenser, evaporator, etc) impurities clean	
4	Quick coupling	Connection process pipeline, vacuum or charge refrigerant will be used.	
5	Soldering gun	heating and welding	

6	hand leak detector	welding point leakage detect, if no, use soap-suds	
Material			
No.	Name	Main Usage	Photo
1	Process pipeline	Charge the refrigerant	
2	Dry filter	Involving a system failure to be replaced	
3	Copper welding rod	Copper-Copper tubes welding	
4	Silver solder(> 25%Ag)	Not Copper-Copper tubes welding	
5	Refrigerant/gas	Add refrigerant to the system	
6	Adhesive tape	Door fixing for reversing door	
7	Transition copper pipe	Aluminium-Aluminium tubes welding, maintain lengthen tubes	



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

For more information about the service manual, please visit the tsp.midea.com

For more information about the EV and SBOM, please visit the 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