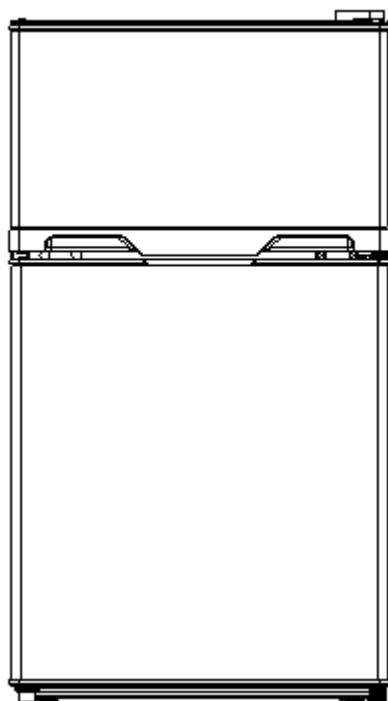


Service Manual

| Applicable models | Model Code |
|-------------------|----------------|
| CE-BCD87CM-SQ | 22031020000524 |
| SR-BCD87CM-OR | 22031020000352 |
| AR-BCD87CM-FR | 22031020000085 |



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

| | |
|-------------|-----------------------------------|
| Prepared by | R&D:Luo Xinjun |
| Reviewed by | QA:WangTao SVC:ChenLei |
| Approved by | R&D:Tang Tao SVC:GuangTaoshuai |



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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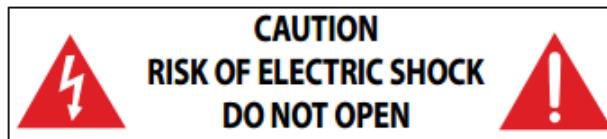
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1.Safety Warning Code

1.1Warning for operation safety

Important Safety Instructions



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.

- 15** Do not handle the plug with wet hands. This could result in an electric shock.
- 16** Unplug the power cord by holding the plug, never by pulling the cord.
- 17** Do not turn the appliance on or off by plugging or unplugging the power cord.
- 18** Refer all servicing to qualified service personnel. Servicing is required when the appliance has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the appliance, the appliance has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 19** To reduce the risk of fire or electric shock, do not expose this appliance to rain, moisture, dripping, or splashing, and no objects filled with liquids should be placed on top of it.
- 20** Do not use extension cords or ungrounded (two prong) adapters.
- 21** This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- 22** Children should be supervised to ensure that they do not play with the appliance.
- 23** If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified person, in order to avoid a hazard.
- 24** Take off the doors and leave the shelves in place so that children may not easily climb inside.



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:
 - 1) Take off the doors
 - 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.
- 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:
 - 1) Take off the doors
 - 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.

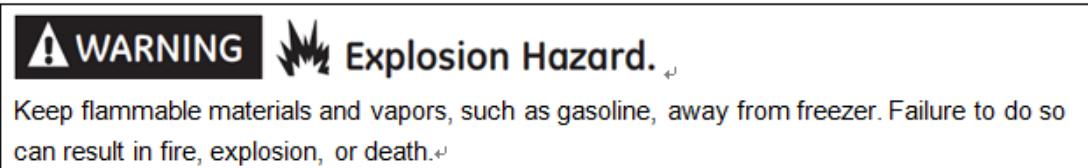
- 12** This freezer is intended to be used in household and similar environments.
- 13** Do not store or use gasoline or any flammable liquids inside or in the vicinity of this freezer.
- 14** Do not use extension cords or ungrounded (two-prong) adapters with this freezer. If the power cord is too short, 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

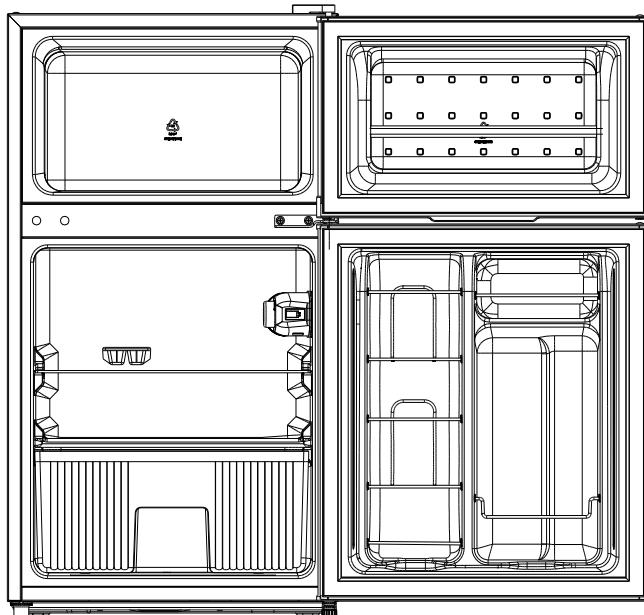


DANGER—Risk of Fire or Explosion. Flammable Refrigerant Used. To Be Repaired Only By Trained Service Personnel. Do Not Use Mechanical Devices. Do Not Puncture Refrigerant Tubing.
CAUTION—Risk of Fire or Explosion. Flammable Refrigerant Used. Consult Repair Manual/Owner's Guide Before Attempting To Service 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:



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

- 1) Mechanical temperature control
- 2) Manual defrost
- 3) Change the door opening direction

3. Installation and commissioning

3.1 Handling

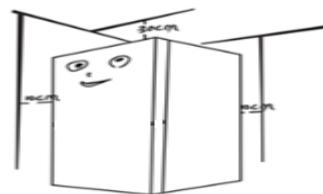
- 1) Protect the refrigerator in moving it
Same as shown as left photo, please move it by handcart with cushion
- 2) Remove all packing materials and bottom cushion, then move into house for placement
- 3) After moving it to appropriate location, wait for 2 hours before power on.



3.2 Disassembly (None)

3.3 Installation location

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



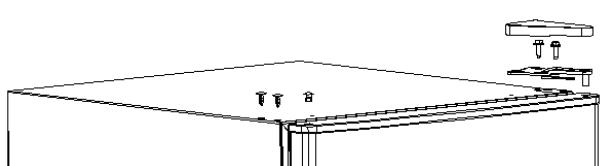
3.4 Leveling of the refrigerator

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



3.5 Change the door opening direction

- 1) Remove the hinge cover.
Unscrew screws.
Remove the upper hinge, Insert pins and hole cover.



| | |
|--|--|
| 2) Remove the up door. Unscrew screws. Remove the middle hinge, Insert pins and hole cover. | |
| 3) Remove the bottom door. Unscrew screws and levelling feet. Remove the lower hinge adjust feet assembly. | |
| 4) Fix the levelling feet, lower hinge adjust feet assembly and screws in the opposite side. | |
| 5) Place the bottom door. Place and fix the the middle hinge. Fix the Insert pins and hole cover. | |
| 6) Place the up door. Place and fix the the upper hinge. Fix the hinge cover, Insert pins and hole cover. | |
| 7) Finish. | |

3.6 Installation of handle (None)

3.7 Installation of door lock(None)

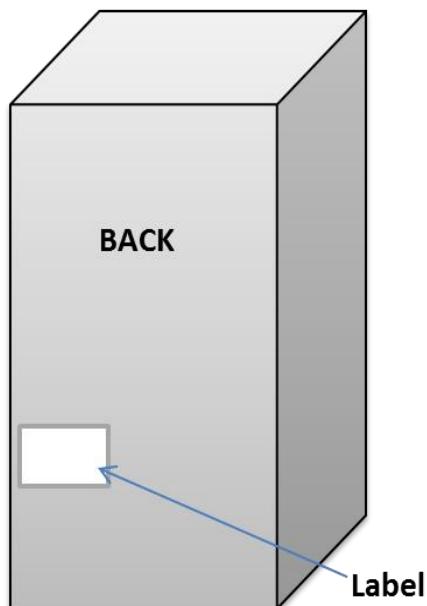
3.8 Adjustment to level the door(None)

3.9 Adjustment to shelves(None)

4.Terms

4.1 Definition of model(None)

4.2 Location of nameplate



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

5. Product specification

5.1 Typespecification(None)

5.2 Electrical parameters

| Product Name | | | CE-BCD87CM-SQ | SR-BCD87CM-OR | AR-BCD87CM-FR | / |
|--------------------------------|--|------|---|---|--|---------------|
| Product Code | | | 22031020000524 | 22031020000352 | 22031020000085 | / |
| Name | Item | Type | Specification | Specification | Specification | Specification |
| Compressor | Compressor | / | SZ55C1J | SZ45C1J-N | FZ45E1H-SL | / |
| | Starter | PTC | 8EA19C1/QP2-15/ QP2-15 | 8EA19C1/QP2-15/ QP2-15 | QP2-4R7 | / |
| | Overload protector | OLP | 3TM117TF2/DRB1 2T61A1 | 3TM129TF2/DRB1 3T61A1 | 4TM222TFBYY/3T M222TF2DRB25T6 1A1/BT68-140A61 D3 | / |
| | Winding resistance of compressor wiring terminal | | Rmc: $40.25 \pm 7\% \Omega$ Rsc: $15.89 \pm 7\% \Omega$ Rms=Rmc+Rsc | Rmc: $34.24 \pm 7\% \Omega$ Rsc: $16.53 \pm 7\% \Omega$ Rms=Rmc+Rsc | Rmc: $10.1 \pm 7\% \Omega$ Rsc: $9.6 \pm 7\% \Omega$ Rms=Rmc+Rsc | / |
| Motor | Fan motor of the freezing chamber | / | / | / | / | / |
| | Ventilation door of the refrigerating chamber | / | / | / | / | / |
| | Condensation fan | / | / | / | / | / |
| Lights inside the refrigerator | Lights inside the freezing chamber | / | / | / | / | / |
| | Lights inside the refrigerating chamber | / | 240V/10W | 240V/10W | 110V/10W | / |
| | Switch of the refrigerator door | / | Sector | Sector | Sector | / |

5.3 Refrigerating temperature

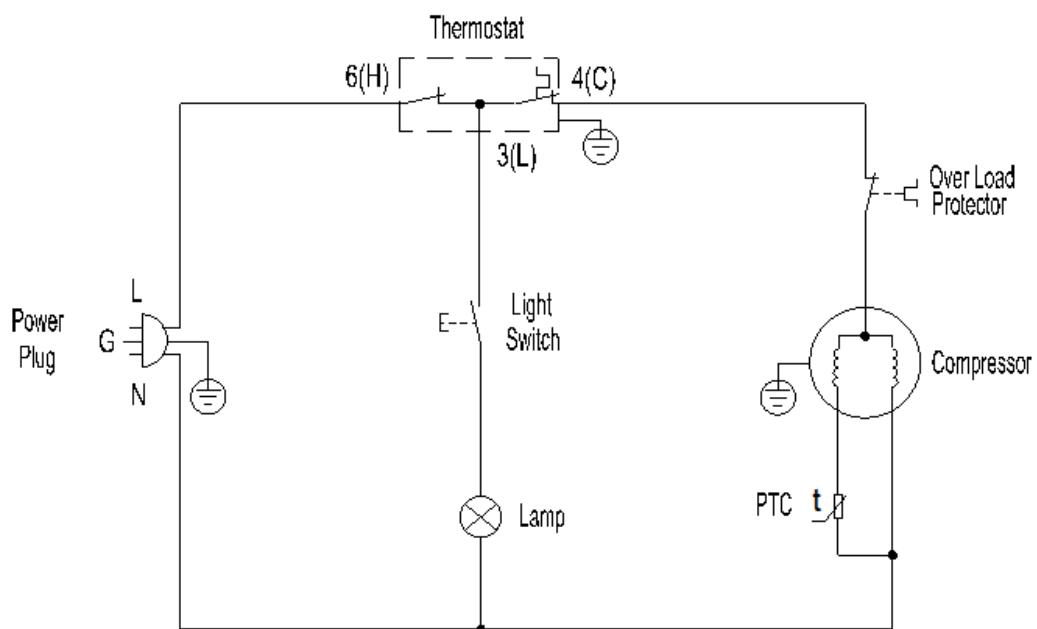
Temperature tolerance $\leq 2^{\circ}\text{C}$

| Compartment | The highest ($^{\circ}\text{C}$) | Lowest ($^{\circ}\text{C}$) |
|----------------------|------------------------------------|-------------------------------|
| Freezing | -12 | -24 |
| Refrigerating | 10 | 0 |
| Variable temperature | / | / |

5.4 Defrosting parts

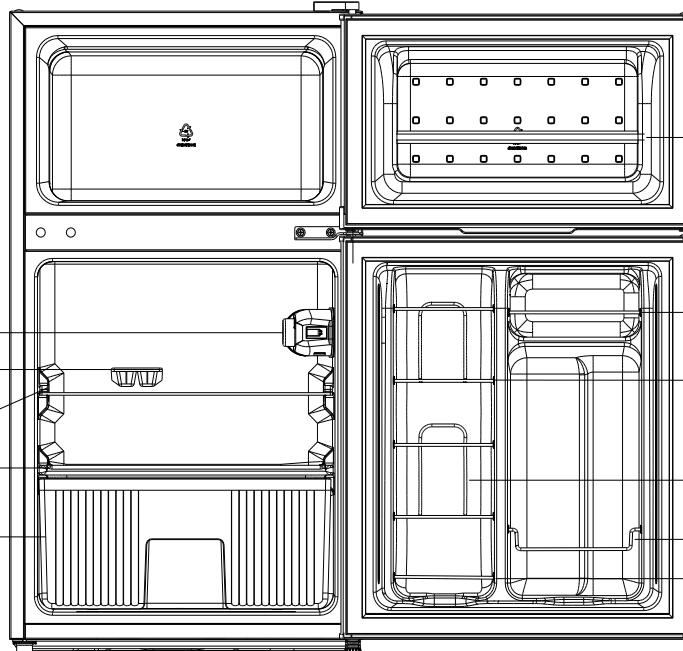
| Defrosting period | Initial defrosting period | Normal defrosting period |
|---------------------------------------|---------------------------|--------------------------|
| | / | / |
| Defrosting sensor | / | / |
| Defrosting temperature controller | / | / |
| Thermal fuse | / | / |
| Defrosting heater in freezing chamber | / | / |

5.5 Circuit diagram



6.Internal view and dimension

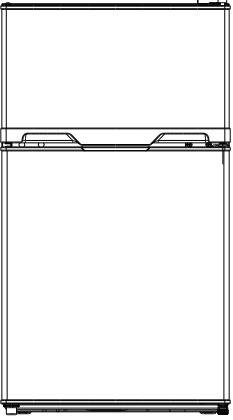
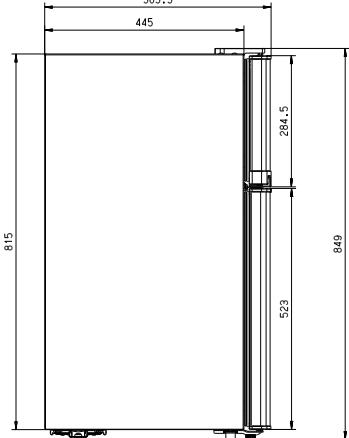
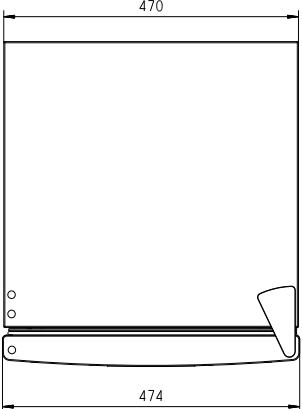
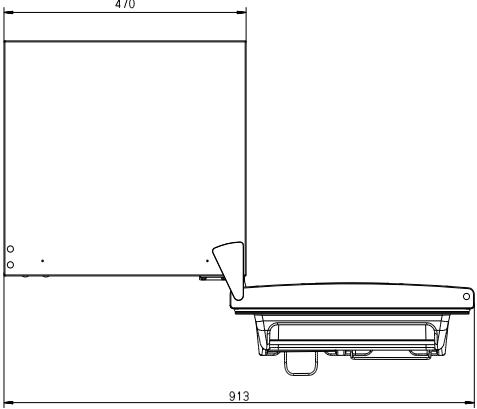
6.1 Main parts and their names



| Freezer chamber | Refrigerator chamber |
|--|--|
| 1. Toolbar 11. Temperature-control box assembly | 2. Steel column strip 3. Zip-top can steel bar 4. Zip-top can steel bar 5. Steel column strip 6. Steel column strip 7. Fruits and vegetables box 8. Glass shelf assembly 9. Glass shelf assembly 10. Ice box |

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

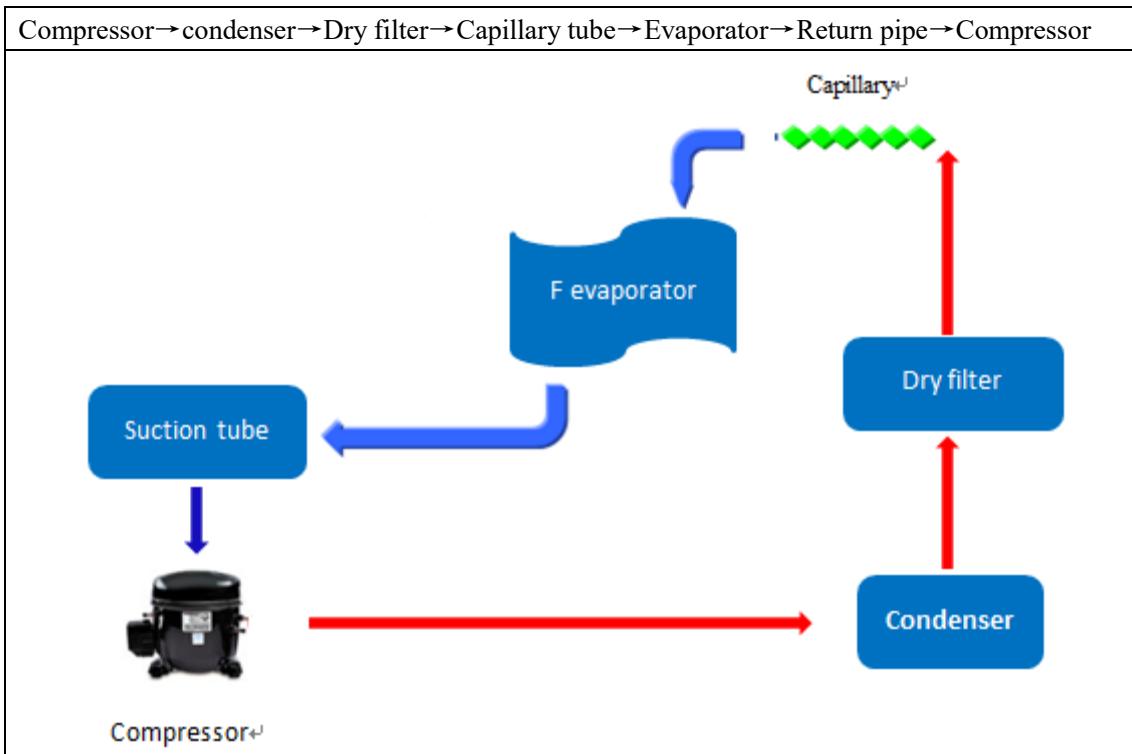
6.2 External dimension

| Front view | Side view |
|--|---|
|  |  |
| Down view | Maximum open angle of door(180°) |
|  |  |

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

7. Refrigerating piping system and circulating route of cooling air

7.1 Refrigerating piping system



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

7.2 Circulating route of cooling air(None)

8. Dismantling of parts

8.1 Parts on the door

Door seal

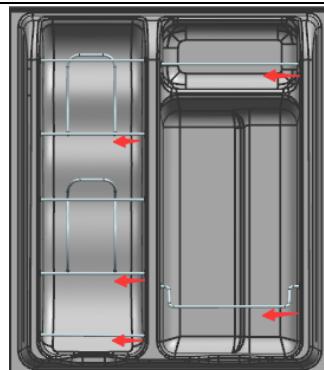
Door seal is installed into door liner groove.

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



Guardrail

Picture direction, move to one side, take out the other side.



8.2 Parts inside the refrigerator

| Shelves | |
|---|--|
| 1) move up | |
| 2) outward pulling the shelve at horizontal | |
| Drawer | |
| 1) outward pulling the drawer at horizontal | |

8.3 Light system(None)

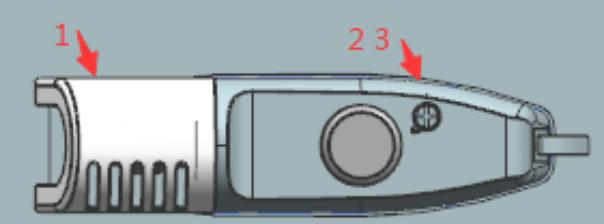
8.4 Air duct components refrigeratingchamber

| | |
|--|------|
| Air duct components refrigeratingchamber | None |
|--|------|

8.5 Air duct components in freezing chamber and fan motor

| | |
|--|------|
| Disassembly and installation of Air duct | None |
| Fan motor of air duct | None |

8.6 Evaporator and temperature sensing system

| | |
|---|--|
| Evaporator in freezing chamber | not replace |
| Components on the evaporator | |
| Defrost thermostat | None |
| Fuse | None |
| Defrost sensor | None |
| Defrost heater | None |
| Evaporator in refrigerating chamber | None |
| Components on the evaporator | None |
| Sensor | |
| Sensor in freezing chamber | None |
| Sensor in refrigerating chamber | None |
| Sensor in Variable temperature chamber | None |
| ambient temperature senser | None |
| Thermostat | |
| Remove the lamp cover and insert pin, remove the screw under insert pin, outward pulling the thermostat-control box at horizontal |  |
| pull out the knod,remove the socket the terminal,replace the thermostat |  |

8.6 Compressor case

Piping system in the compressor case

| | |
|---|-------------------|
| | |
| 1.compressor 2.left condenser 3.dry filter 4.suction pipe | 5.right condenser |
| Starter and protector of the compressor | |
| 1. Remove the screws 1) Two screws outside 2) One screw inside | |
| 2. Remove the clipping strip Slowly pull it out | |
| 3. Remove the protective cover 1) Pry the protective cover slowly from the upper part, 2) Pull it out and remove it. | |
| 4. Remove the starter and protector Unplug the starter and protector (you can use a screwdriver to pry it slowly) | |
| 5. The reverse process can complete installation. | |

8.7 Display and main control panel(None)

| | |
|-----------------------|------|
| Display control board | None |
| Main control board | None |

8.8 Bar counter(None)

| | |
|---|------|
| Disassembly and installation of bar counter | None |
| Disassembly and installation bar doorseal | None |

8.9 Water dispenser(None)

| | |
|---|------|
| Disassembly and installation of water valve | None |
| Disassembly and installation of water tank | None |

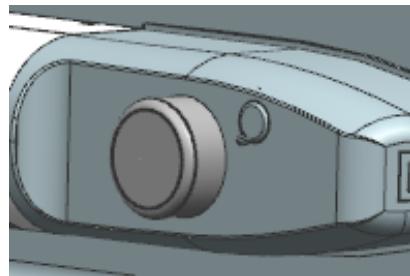
8.10 Ice maker(None)

| | |
|---|------|
| Disassembly and installation of ice maker | None |
| Disassembly and installation of water system | None |
| Disassembly and installation ice machine sensor | None |

9. Function and operation

9.1 Operation panel

Direct cooling mechanical refrigerator, through the thermostat knob to adjust the stalls.



9.2 Temperature control

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"

9.3 Give an alarm(None)

9.4 Failure code and solutions(None)

9.5 Defrost function

Manual defrost

9.6 Compressor fan control(None)

9.7 Test mode (None)

9.8 Self-diagnosis (None)

10.Circuit description

10.1 Power Supply(None)

10.2 Test circuit for door switch(None)

10.3 Temperature test circuit(None)

10.4Freezer chamber fan motor circuit (None)

10.5refrigerating chamber fan motor circuit (None)

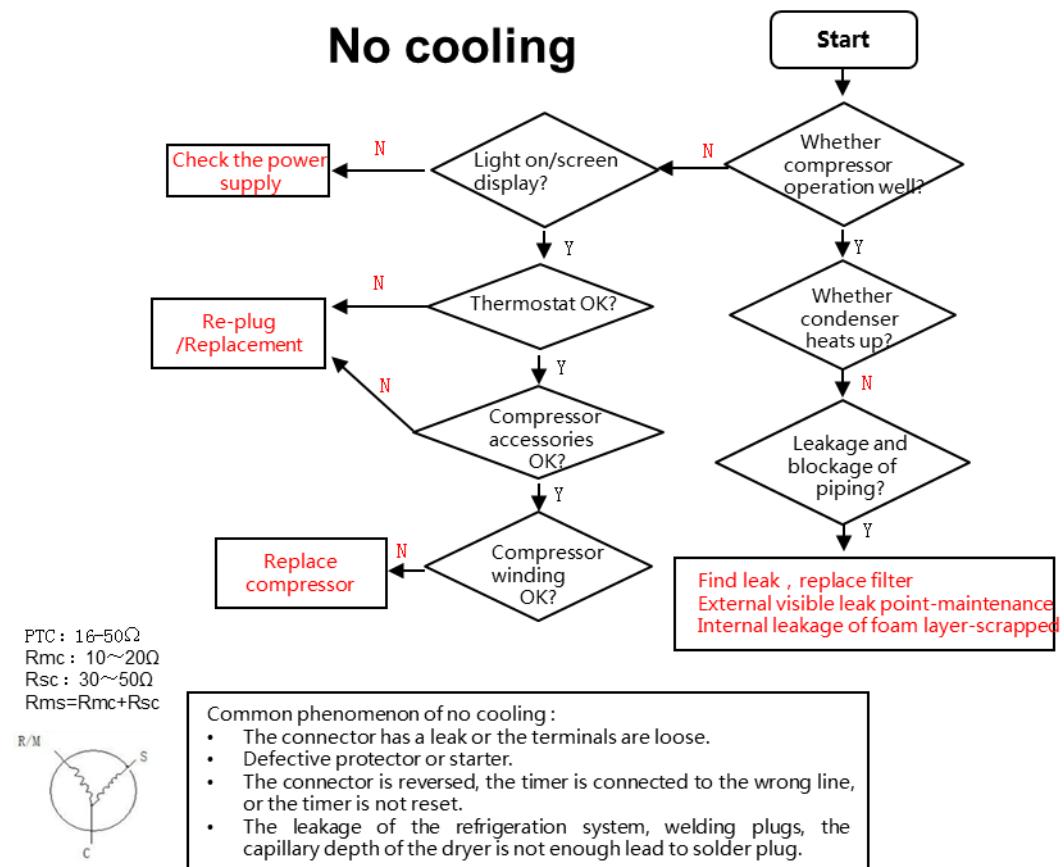
10.6Condensation fan circuit (None)

10.5 Fan motor circuit of the ventilation door(None)

10.6Resistance value of the sensor (R/T) (None)

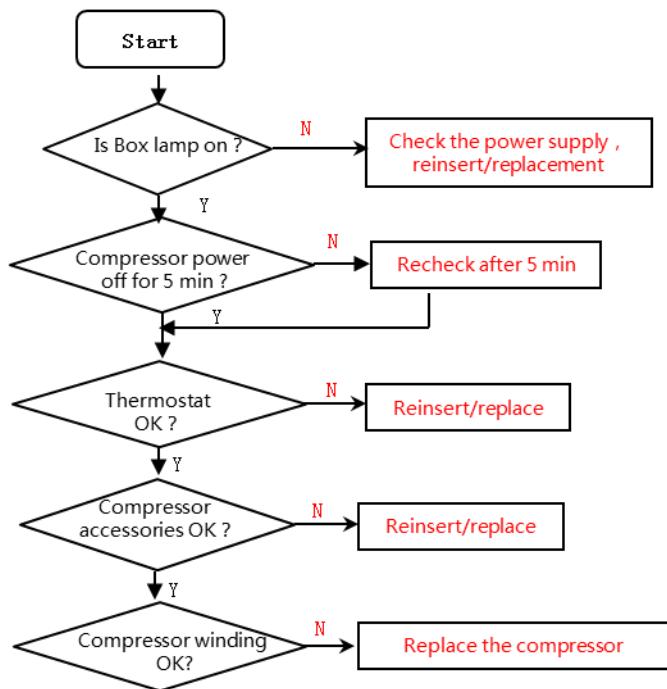
11.Troubleshooting Method

11.1 Not cooling



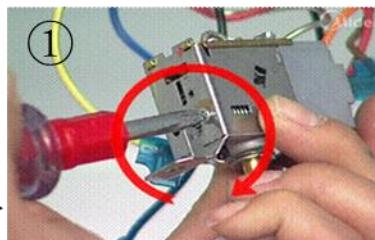
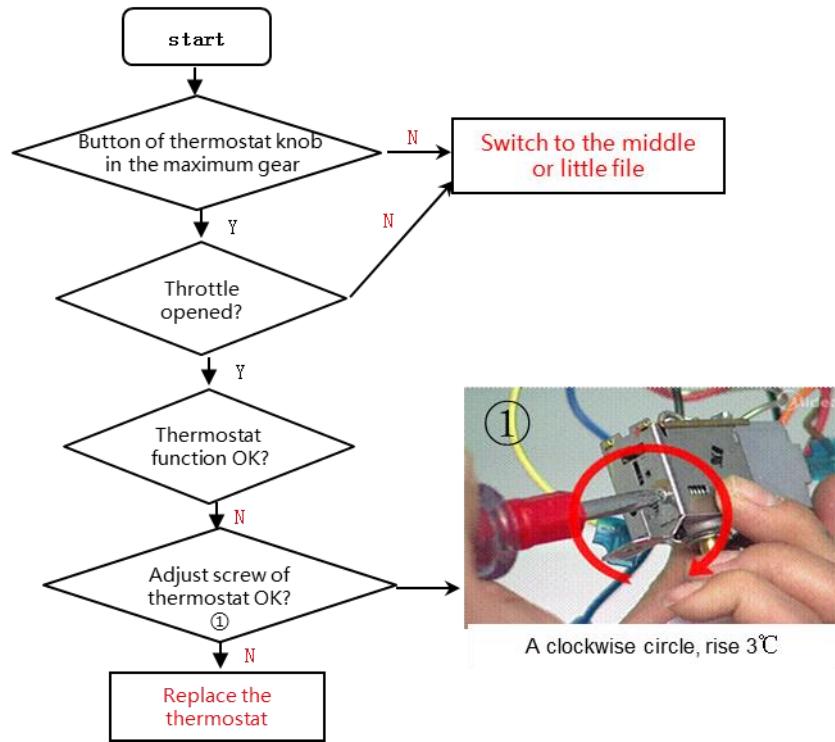
11.2 Not working of compressor

No working of compressor

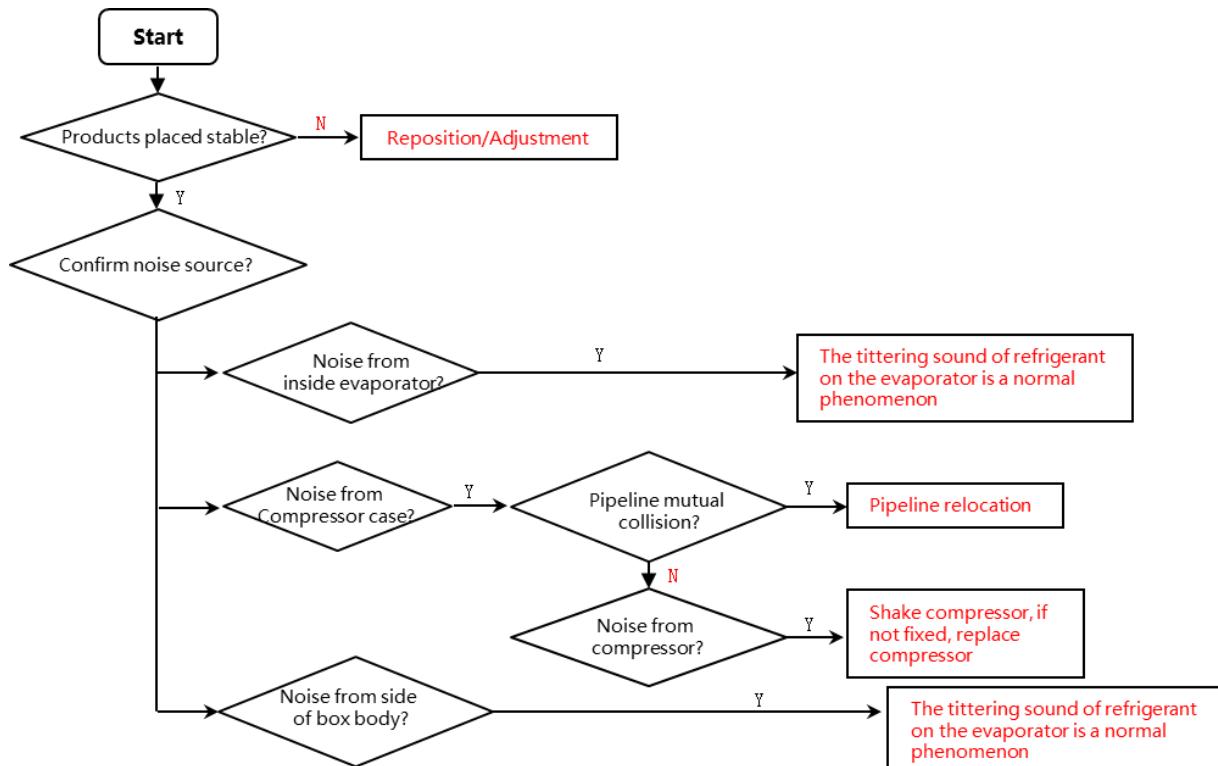


11.3 -Thermostat malfunction-Undercooling

Thermostat malfunction-Undercooling



11.4 Noise



12. Figures and details of repair parts(Documents are provided separately)

12.1 Figures

12.2 List of parts and components

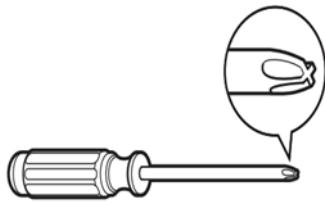
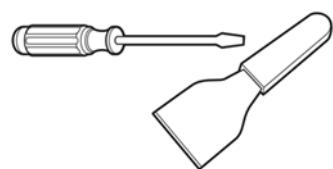
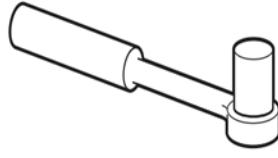
13 Appendix:

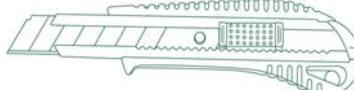
13.1 Electrical Schematic Diagram(None)

(Model: ***)

13.2 Refrigerator maintenance tooling and equipment and material

Tooling

| No. | Name | Photo | Main Usage |
|-----|------------------------------|---|---|
| 1 | Phillips screwdriver |  | screw assemble and disassemble |
| 2 | slotted screwdriver/scrapers |  | 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 | Pipe cutter |  | pipe cutting |
| 8 | Knife |  | assistive tool |
| 9 | Nipper pliers |  | assistive tool |
| 10 | Capillary tube scissors |  | Shear capillary |

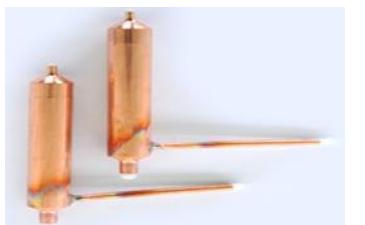
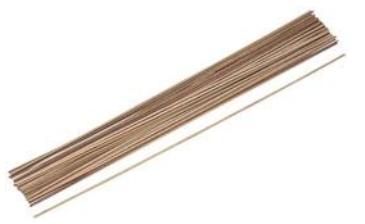
Equipment

| No. | Name | Photo | Main Usage |
|-----|------|-------|------------|
|-----|------|-------|------------|

| | | | |
|---|--|--|---|
| 1 | Vacuum pump |  | vacuum pumping |
| 2 | Electronic scale |  | weighing refrigerant/gas |
| 3 | High pressure nitrogen with piezometer |  | pipe and cooling system(condenser, evaporator, etc) impurities clean |
| 4 | Soldering gun |  | heating and welding |
| 5 | Quick coupling |  | connection process pipeline, vacuum or charge refrigerant will be used. |
| 6 | hand leak detector |  | welding point leakage detect, if no, use soap-suds |

material

| No. | Name | Photo | Main Usage |
|-----|------|-------|------------|
|-----|------|-------|------------|

| | | | |
|---|--------------------|---|---|
| 1 | Process pipeline |  | Charge refrigerant |
| 2 | Dry filter |  | Involving a system failure to be replaced |
| 3 | Copper welding rod |  | tube welding |
| 4 | Refrigerant/gas |  | Add refrigerant to the system |
| 5 | Sealing tape |  | door fixing for reversible door option |

Midea Refrigerators

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

xxx@midea.com

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