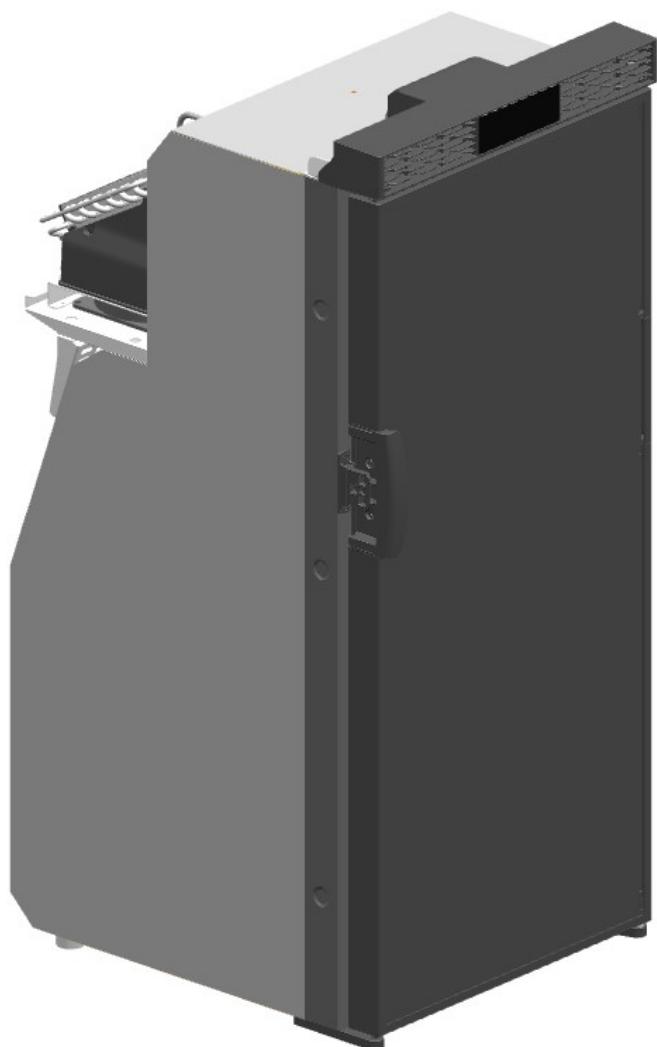


DC REFRIGERATOR

CVB3-92Da



Compressor Refrigerator
Installation and Operating Instructions

Material code : 01.05.09041527

Thanks for choosing our refrigerator. Please read these instructions carefully before installation or first use of the refrigerator and store it in a place where all users could find it for easy reference. If the refrigerator is transferred or sold, please hand over the instructions along with it so that the new user is aware of installation methods, usage and safety requirements.

In order to improve the performance and reliability of the refrigerator or component parts, the hardware or software of the refrigerator will be adjusted. If the instruction is inconsistent with the actual refrigerator, please refer to the actual refrigerator, but this will substantially affect your use of the product.

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1.0 Explanation of symbols

Be aware of possible safety hazards when you see the safety alert symbol on the refrigerator and in this manual. A signal word follows the safety alert symbol and identifies the danger of the hazard. Carefully read the descriptions of these signal words to fully know their meanings. They are for your safety.

 DANGER!	Failure to observe this instruction can cause dangerous personal injury, death, or much property damage.
 WARNING!	Failure to observe this instruction can cause personal injury or much property damage.
 CAUTION!	Failure to observe this instruction can cause material damage and impair the function of the product.
 NOTE	Supplementary information for operating product.

2.0 Safety instructions

- Only use the refrigerator for purposes described in the instructions.
- The refrigerator must be installed correctly under the guidance of the instructions before using.

DANGER!

- This appliance contains isobutane refrigerant R600a, it is combustible. Risk of Fire and explosion.

Flammable Refrigerant



- When handling, installing, moving and use the appliance, care should be taken to avoid damage to the refrigerant tubing and refrigerant circuit.
- Do not use the area behind the refrigerator to store anything, especially flammable materials (gasoline, cleaning supplies, etc.)
- Never open or damage the refrigerator circuit of the cooling system at the back or the inside of your appliance. The cooling system is pressurized and contains flammable substances.
- Keep ventilation openings in the appliance enclosures or in the built-in structure, clear of obstruction. Have the condenser and cooling fan cleaned by qualified service personnel if you suspect poor performance.
- Do not use mechanical devices or other means, such as candles or heaters to accelerate the defrosting process.
- Do not use electrical appliances inside the food storage compartment of the appliance.
- Do not store any explosive substance, such as aerosol cans with flammable propellant, in this refrigerator.
- Do not store substances which are caustic or contain solvents.

- Never use the refrigerator in an environment where flammable gases are present.
- Do not place the refrigerator near naked flames or other heat sources (heater, direct sunlight and gas over etc.)

WARNING!

- Incorrect installation, adjustment, change to, or maintenance of this refrigerator can cause personal injury, property damage, or both. Have service and maintenance work done by your dealer or by an authorized Service Center.
- The rear and bottom of the refrigerator has sharp edges and corners. To prevent cuts or abrasions when working on the refrigerator, be careful and wear cut resistant gloves.
- A circuit overload can result in an electrical fire if the wires and/or fuses are not the correct size.
- Inadequate repairs may cause more serious hazards.
- Do not operate the device if it is visibly damaged.
- Disconnect the DC power source before doing any maintenance work on the refrigerator, such as cleaning or repairing.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- Operating, cleaning and user maintenance must not be carried out by children without supervision.
- Danger of crushing! Do not put your fingers into the hinge.

CAUTION!

- If the power cable of the device is damaged, it must be repaired and replaced by qualified technician immediately. Any cable, plug or connecting point with a crack or any abrasions, must not be used as to avoid any potential safety hazards.
- **The temperature of the space where the refrigerator is placed should not exceed the range specified on rating-label of the refrigerator, otherwise it will lead to refrigerator failure and food deterioration.**
 - * **The temperature is around the refrigerator, it is not the ambient temperature of the vehicle.**
- Do not bypass or change the refrigerator's electrical components or features.
- Do not use a modified plug or self-extended cable.
- Do not spray liquids near electrical outlets, connections, or the refrigerator components.
- Disconnect the DC power supply if you do not intend to use the refrigerator for an extended period of time when it is installed in caravans, motorhomes and on boats.

3.0 Intended use

This refrigerator is made for use within a recreational vehicle. As such, it is suitable for installation in caravans, motorhomes, boats, but do not expose the refrigerator to rain.

This refrigerator is made to store fresh and frozen foods and for making ice.

CAUTION!

- If the refrigerator is only suitable for installation in a fitted cavity. Once it is installed, only the front of the device is accessible.
- The device is designed to be operated with 12V DC supply.

NOTE

- The upper section is the freezer compartment, the lower section is the fresh compartment.
- The refrigerator is only suitable for refrigerating, freezing and storing food, but not for medicine or medical storage.
- Please check if the refrigeration capacity of the refrigerator is suitable for storing the food you wish to cool.
- All materials used in the refrigerator are compatible for use with foodstuffs. The refrigerant circuit is hermetically sealed and CFC-free.
- The refrigerator can withstand a short term inclination of 10°, for example on boats
- The temperature of refrigerator compartment can be adjusted by control panel.

4.0 Dispose

When the refrigerator has reached its end of life, flammable refrigerant and insulation material used require special disposal procedures, dispose the product according to the local Government stipulations.

- Do not dispose the refrigerator with normal household waste.
- Take off the doors. Leave the shelves in place before you throw away your old appliance, so that children may not easily climb inside.



Environmental Protection

Discarded electrical appliances are recyclable and should not be discarded in the domestic waste! Please actively support us in conserving resources and protecting the environment by returning this appliance to the collection centre's (if available).

5.0 Warranty

The warranty period is one year from the date of purchase.

This warranty does not cover glassware, electric light bulbs or replaceable fuses, and does not apply to refrigerators or component parts that have been subjected to misuse, improper installation, abnormal service, transit damage, recharging of cooling unit system, accident, fire, improper repair, tampering or abuse.

The responsibility under this or any warranty is limited to the repair or replacement of defined defective refrigerator or component part. In no event and under no circumstances shall be responsible for any other charge whatsoever, including but not limited to charges or claims for labor, lost business, lost time, lost profits, loss of use, or any kind of incidental or consequential damages, however denominated or described.

To activate your one year limited warranty, complete and mail the warranty registration supplied.

Your certified dealer or sales agency should be your preferred contact during the warranty period because of the product's technical features.

We accepts no liability for damage in the following cases:

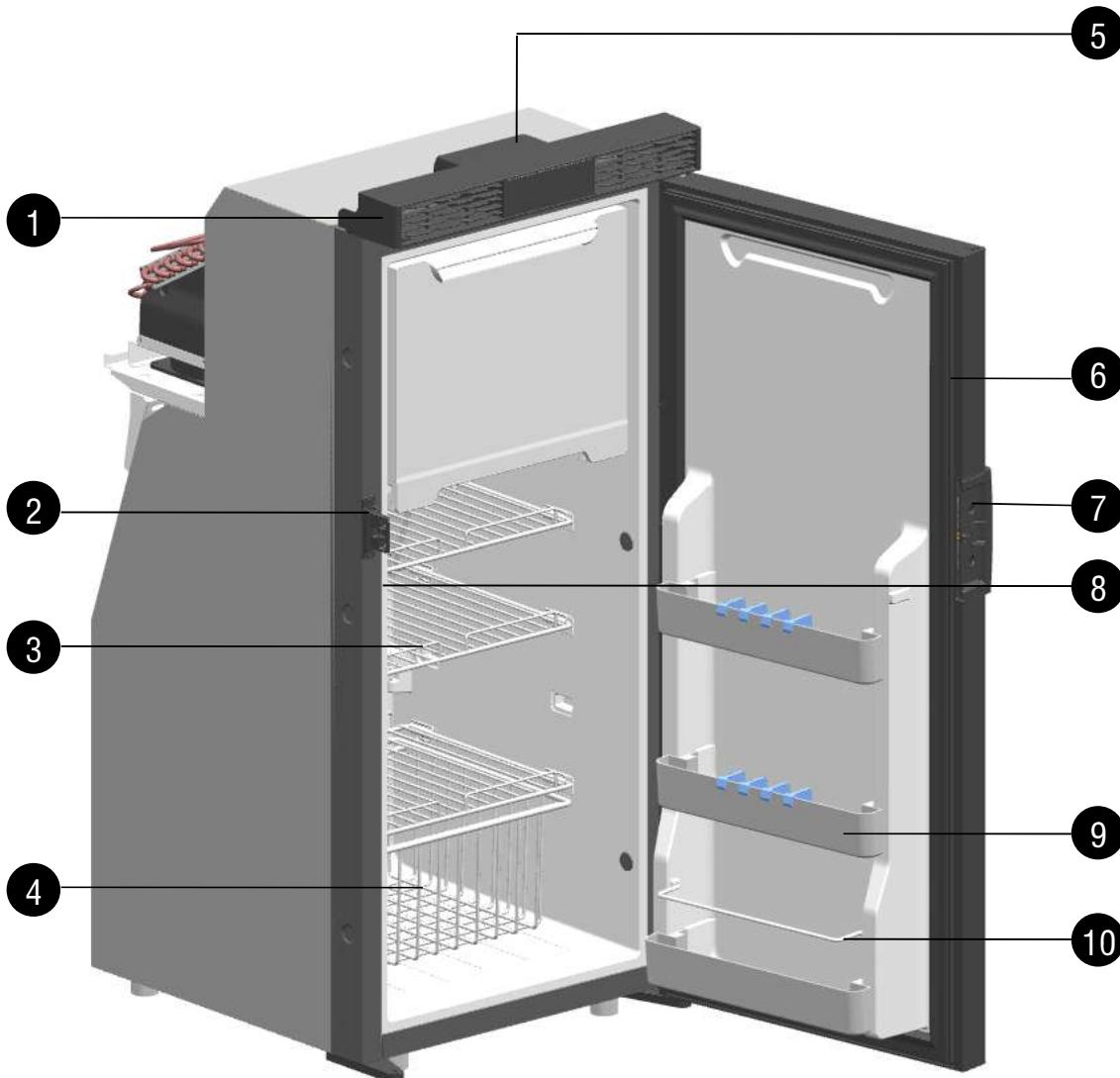
- Natural disasters, wars, pandemics and force majeure etc..
- Defects caused by mechanical influences and overvoltage.
- Defects caused by improper installation, maintenance, or adjustment.
- Defects caused by the improper use of parts or parts not manufactured or supplied by the supplier for repairs or replacements to the refrigerator.
- Alterations to the product without expressing permission from the supplier.
- Use for purposes other than those described in the instructions.
- Travel expenses for bringing the refrigerator to an authorized Service Center for warranty coverage and additional costs caused by the inability to bring the refrigerator to an authorized Service Center.
- We will not be liable for any incidental or consequential loss or damage, due directly or indirectly to the use of this product.
- If the warranty is valid, you can get free service and replacement of defective parts, at no charge, at all authorized Service Centers, which has the option of replacing the defective parts or the entire refrigerator.

6.0 Product components

All figures in this manual are schematic; some features and devices may not be consistent fully with your refrigerator and the specific structure and configuration shall be subject to the actual product.

The appearance and specifications of the actual product may differ depending on the model.

01



1	Ventilation grille	6	Door
2	Locking catch	7	Handle
3	Refrigerator shelf	8	Built-in lamp
4	Fruit and vegetable section	9	Door bin
5	Wire box	10	Bottle bar

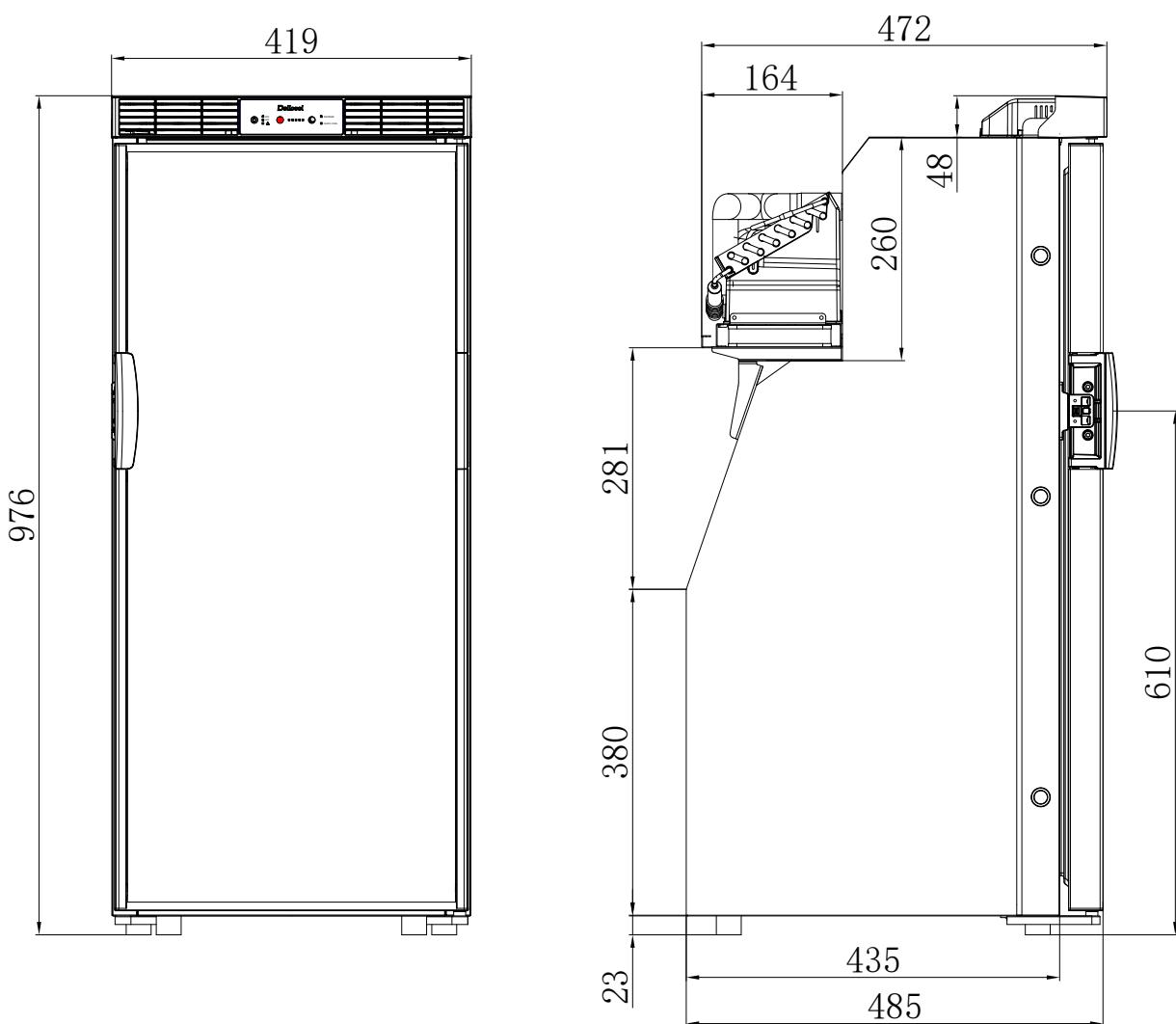
7.0 Installation and connection

7.1 Overall dimensions

NOTE

The figure is schematic, not representing the actual product. The specific dimension shall be subject to the product that you have bought.

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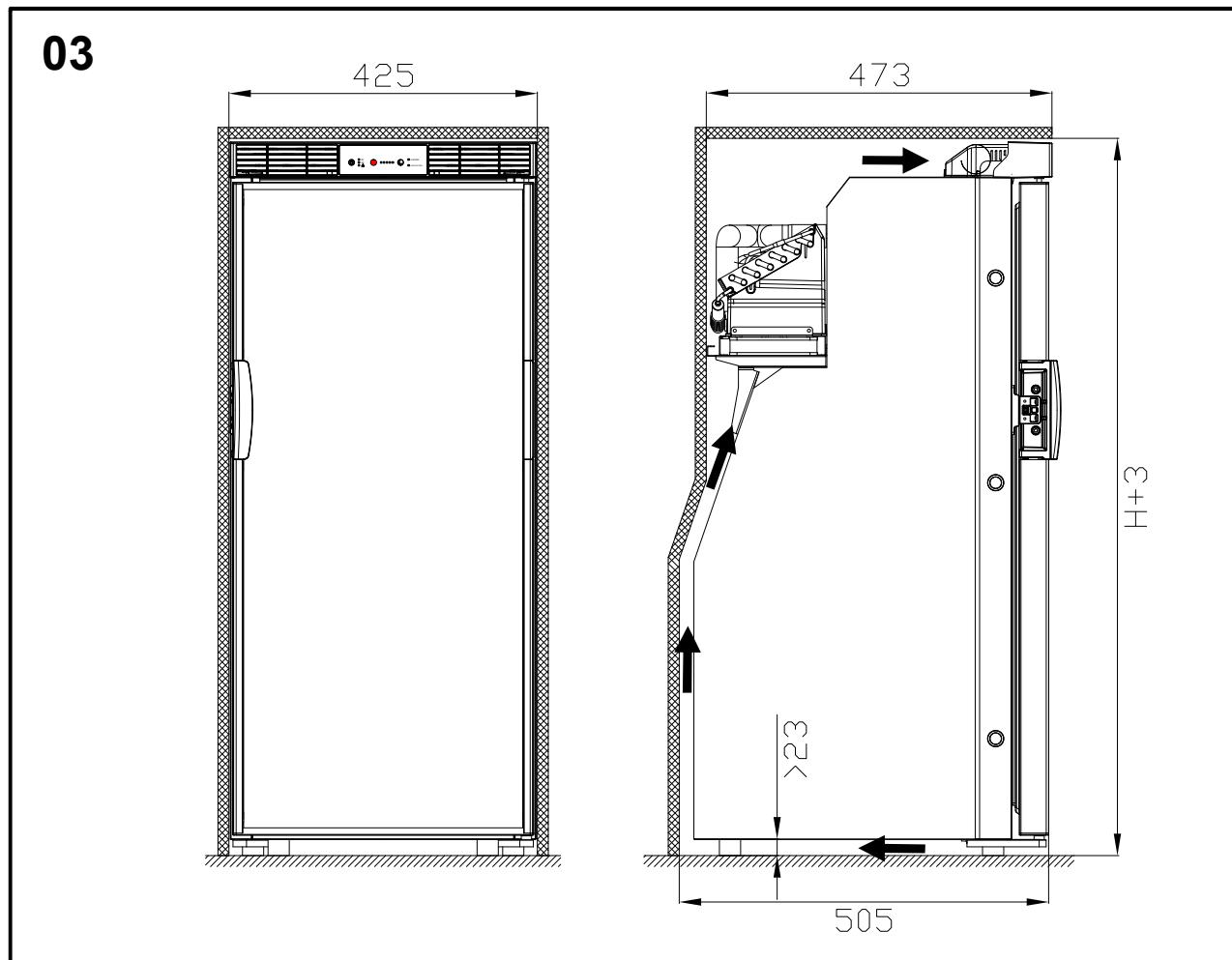


7.2 Recess dimensions

Select a good location to place your appliance where it is flat and easy to use. Avoid placing the unit near heat sources, direct sunlight or moisture.

CAUTION!

- To ensure proper air circulation around the refrigerator, please maintain sufficient space. If install the top panel or closet, please maintain sufficient space to move when necessary.
- The refrigerator must be placed on a hard, flat ground; if cushioning is needed, stable, hard, nonflammable cushion blocks shall be used, rather than the foam backing of refrigerator.
- The refrigerator shall be kept away from damp locations where water is easy to splash; water or dirt shall be removed with soft cloth timely to prevent rusting which may have an effect on the electrical characteristics.
- Place the refrigerator in a well-ventilated place, reserve a certain space around and behind the refrigerator, and do not cover or block the air grille on the rear cover plate of compressor at the back of refrigerator; Keep the refrigerator away from heat source or direct sunlight.
- The Minimum hole size of the recess is W425mmxD565mmxH+3mm



7.3 Connecting the refrigerator to DC power supply

Remove all packages, including the foam backing at the bottom of refrigerator and the tapes fixing accessories in the box.

Remove the film: There is a layer of transparent film on the panel of our product, which can protect products from being scratched in the process of production and transportation, and you can choose to reserve or remove the film as needed.

The refrigerator can be operated with a 12V DC voltage supply, please see the attached circuit wiring diagram, see FIG.20.

Due to product upgrade and optimization, the circuit wiring diagram may not be consistent fully with your refrigerator and the specific circuit wiring diagram shall be subject to the actual product.

CAUTION!

- Check the voltage specification on the data plate to make sure it is the same as the power supply.
- To avoid voltage drops and loss of performance, keep the connection cable as short as possible and directly connected from the power source to the DC wire connection of the unit. Therefore avoid additional switches, plugs or power strips.
- When connecting to DC power supply, the circuit shall be protected by fuses with maximum of 15 Amps, the red cable of the DC power supply connects to the positive pole of the battery and the white cable connects to the negative pole of the battery.
- Disconnect the cooling device and all power source connections from the battery before you connect the battery to a quick charging device. Overvoltage can damage the electronics of the device.
- It is recommended that the cable length (see below table).

Recommended Cable Length		
The cable cross section	Maximum length/12V	Maximum length/24V
2mm ²	2m	4m
2.5mm ²	2.5m	5m
4mm ²	4m	8m
6mm ²	6m	12m
10mm ²	10m	20m

To protect the battery, the refrigerator switches off automatically if the voltage is insufficient (see below table).

Recommended Rated Voltage		
Rated Voltage	12V	24V
Cut-in voltage	10.9V	22.7V
Cut-off voltage	9.6V	21.3V
Max working voltage	16V	28V

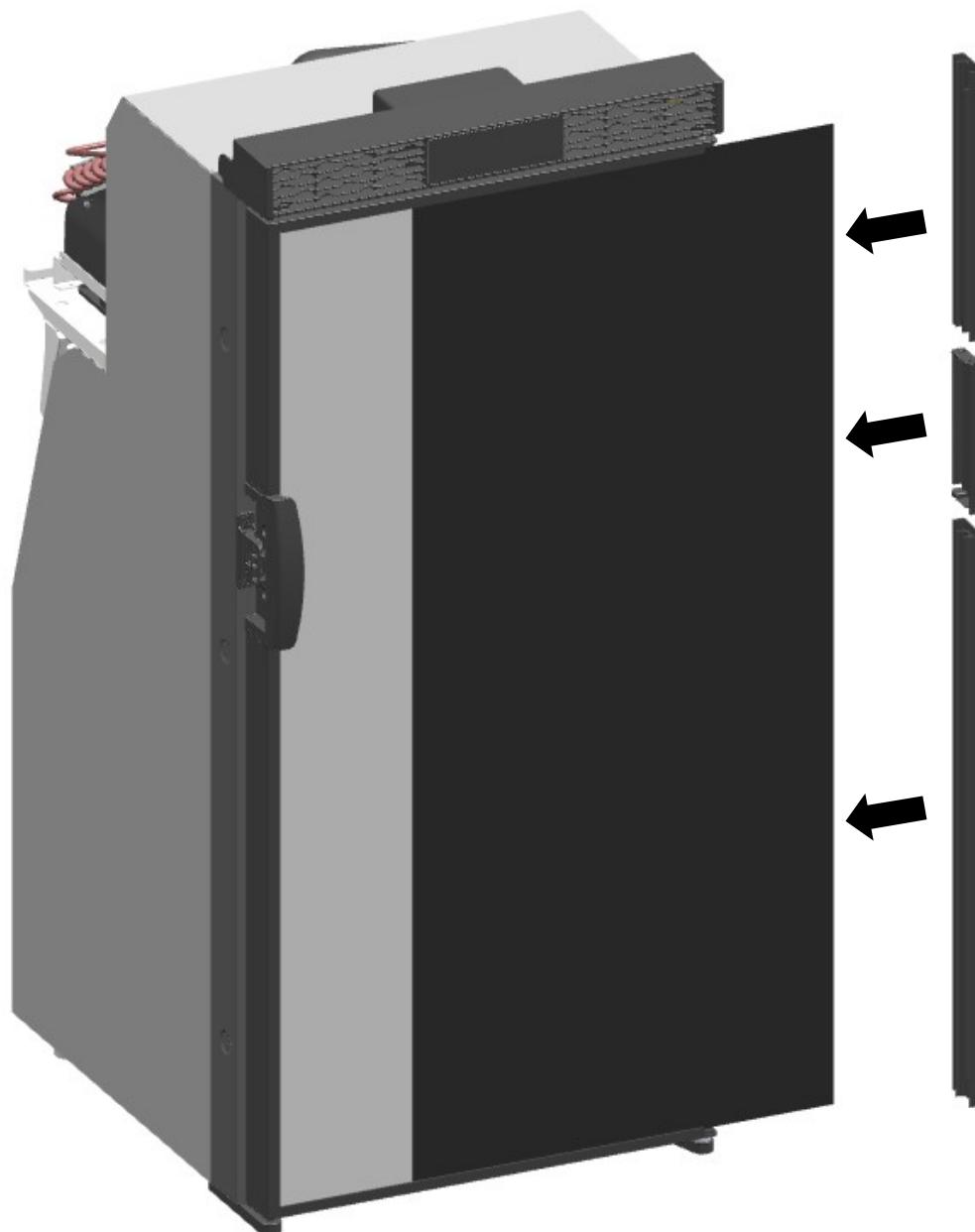
7.4 Installing or Replacing the door panel

- Installing the door panel is preliminary before the refrigerator installation.
- The thickness of door panel must be less than or equal to 4mm .
- Dimension of the door panel:394mmx882mm.

WARNING!

- The door panel has sharp edges and corners. To prevent cuts or abrasions when working on the refrigerator, be careful and wear cut resistant gloves.

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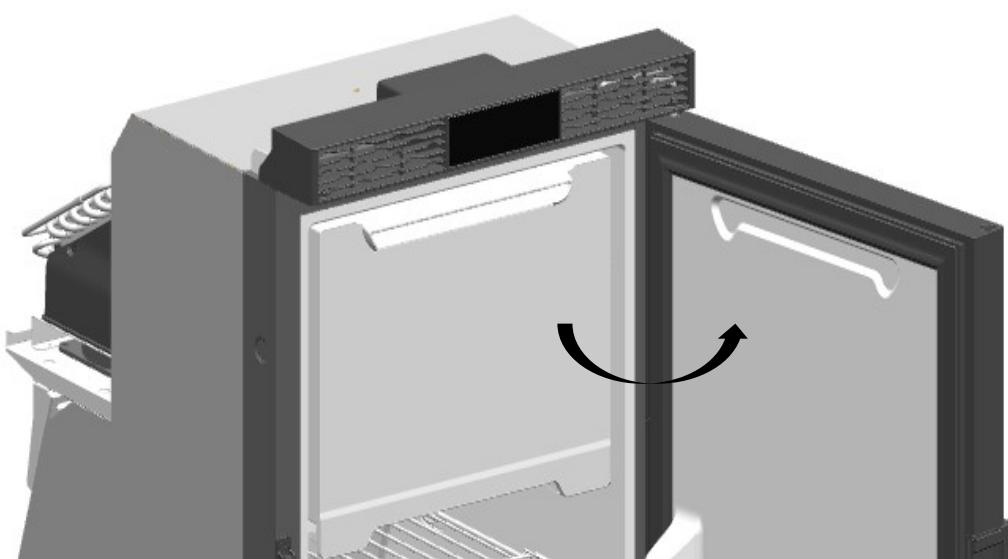


7.5 Reversing the door

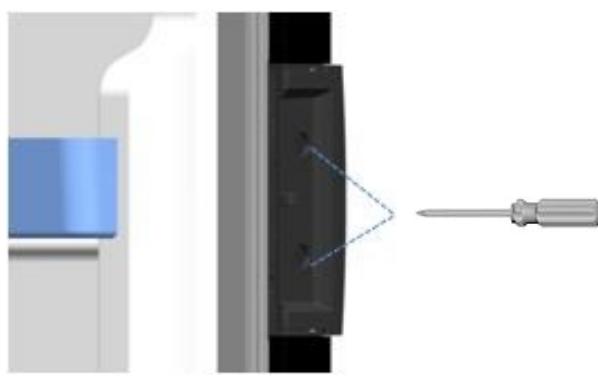
Reverse the door as the following steps when needed:

- Open the door to 90° or more, see FIG.05.
- Remove the handle components(see FIG.06) and handle cap (see FIG.07) from the opposite side of the door with a cross screwdriver, then exchange them and install each of them on the opposite side.
- Remove the locking catch with a cross screwdriver (see FIG.08) , pull out the locking catch adjuster and rotate it 180° , push it into the locking catch base again, see FIG.09 .
- Press down ① with a flat screwdriver(see FIG.10), and pull out the upper hinge pin(note there is a spring below).
- Remove the refrigerator door by lifting it up until it clears the lower hinge pin, see FIG.11.
- Remove the lower hinge pin ② with a flat screwdriver and install it on the opposite side, see FIG.12.
- Remove the two screw caps with a flat screwdriver, then install them on the opposite side, see FIG.13.
- Position the refrigerator door on the lower hinge pin, press the upper hinge pin and spring into the door, and push them into the upper hinge., see FIG.14.
- Finally install the locking catch on the opposite side, the door is fixed now, see FIG.15.
- Check whether there are gaps between the door and body, if so, heat gasket with a dryer until the gaps are removed.

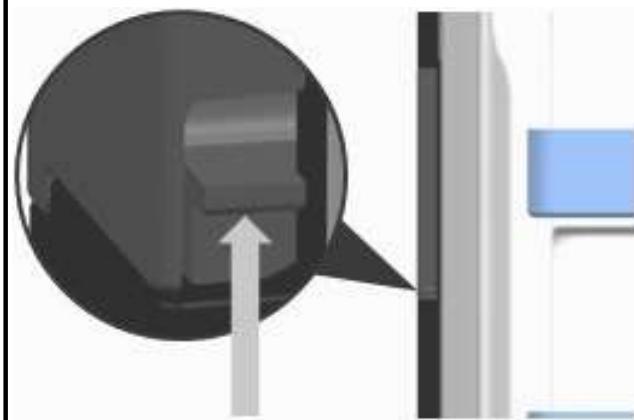
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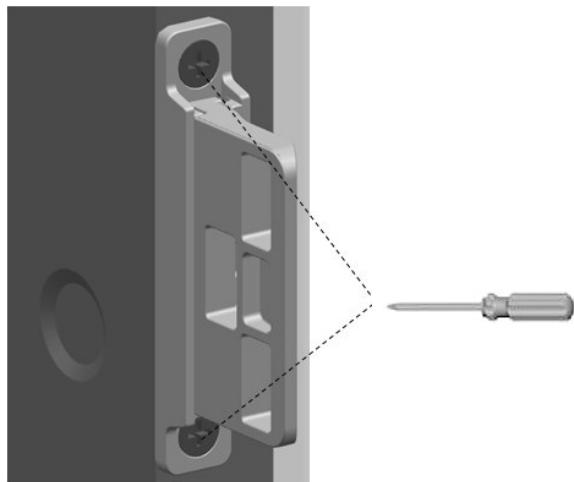
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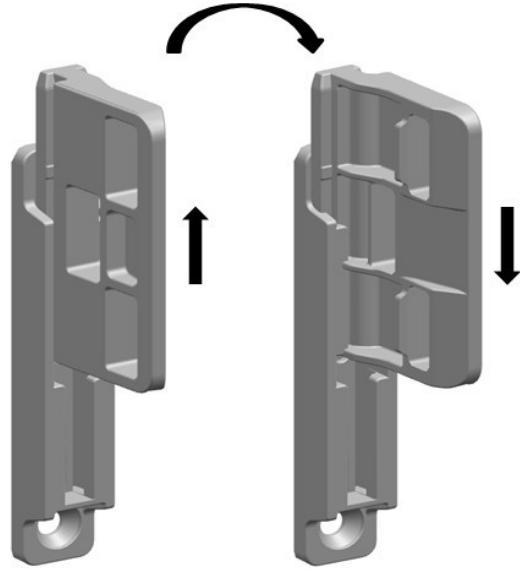
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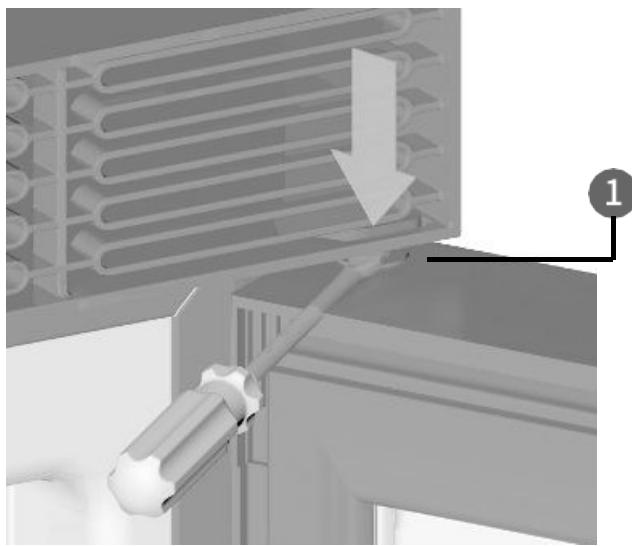
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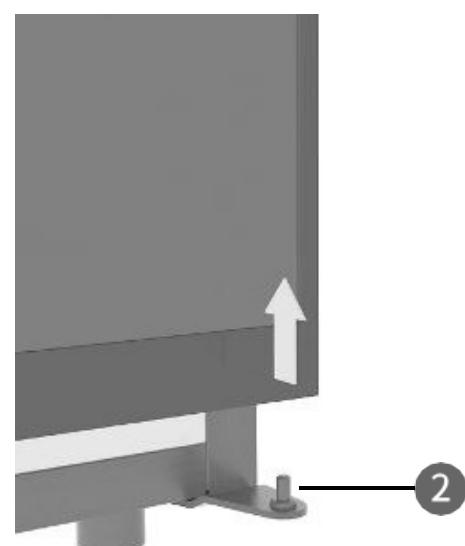
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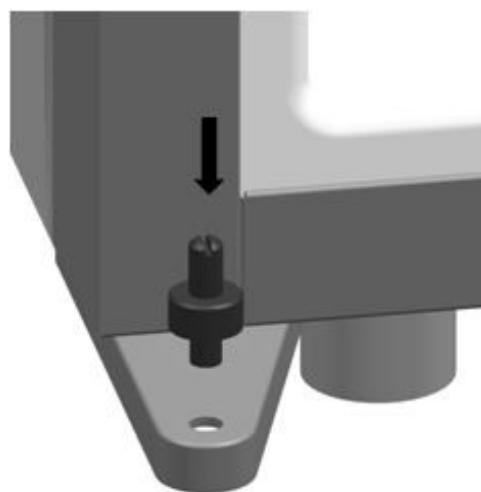
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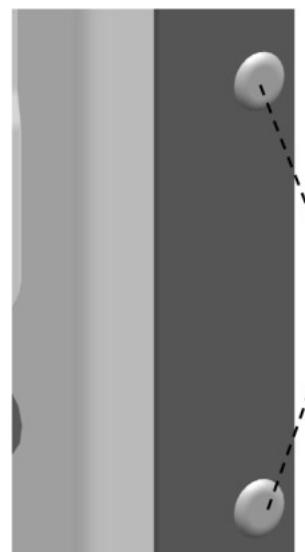
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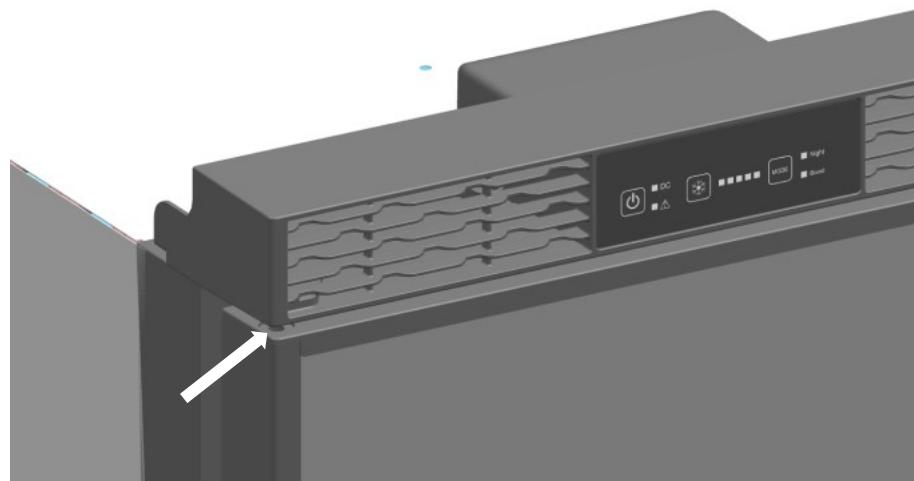
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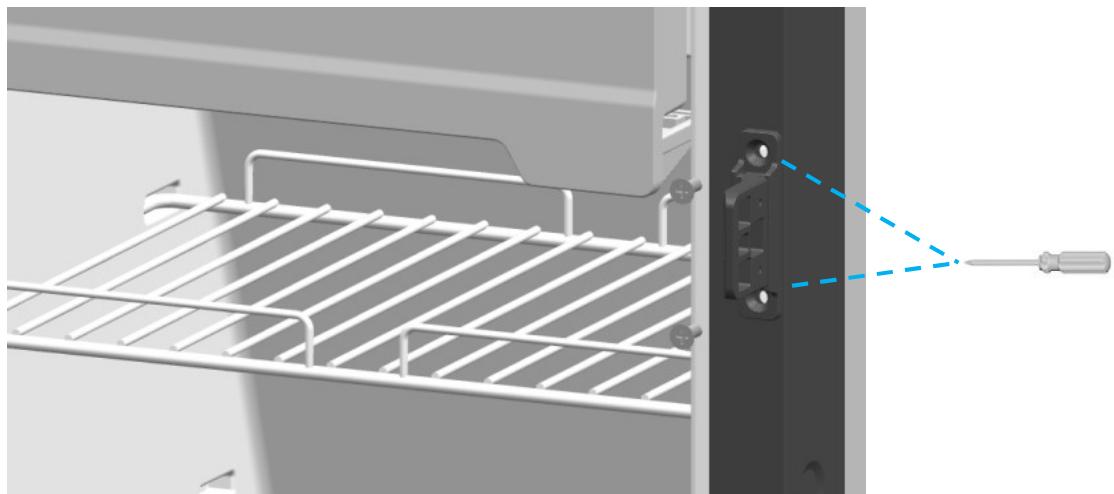
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7.6 Fixing the refrigerator

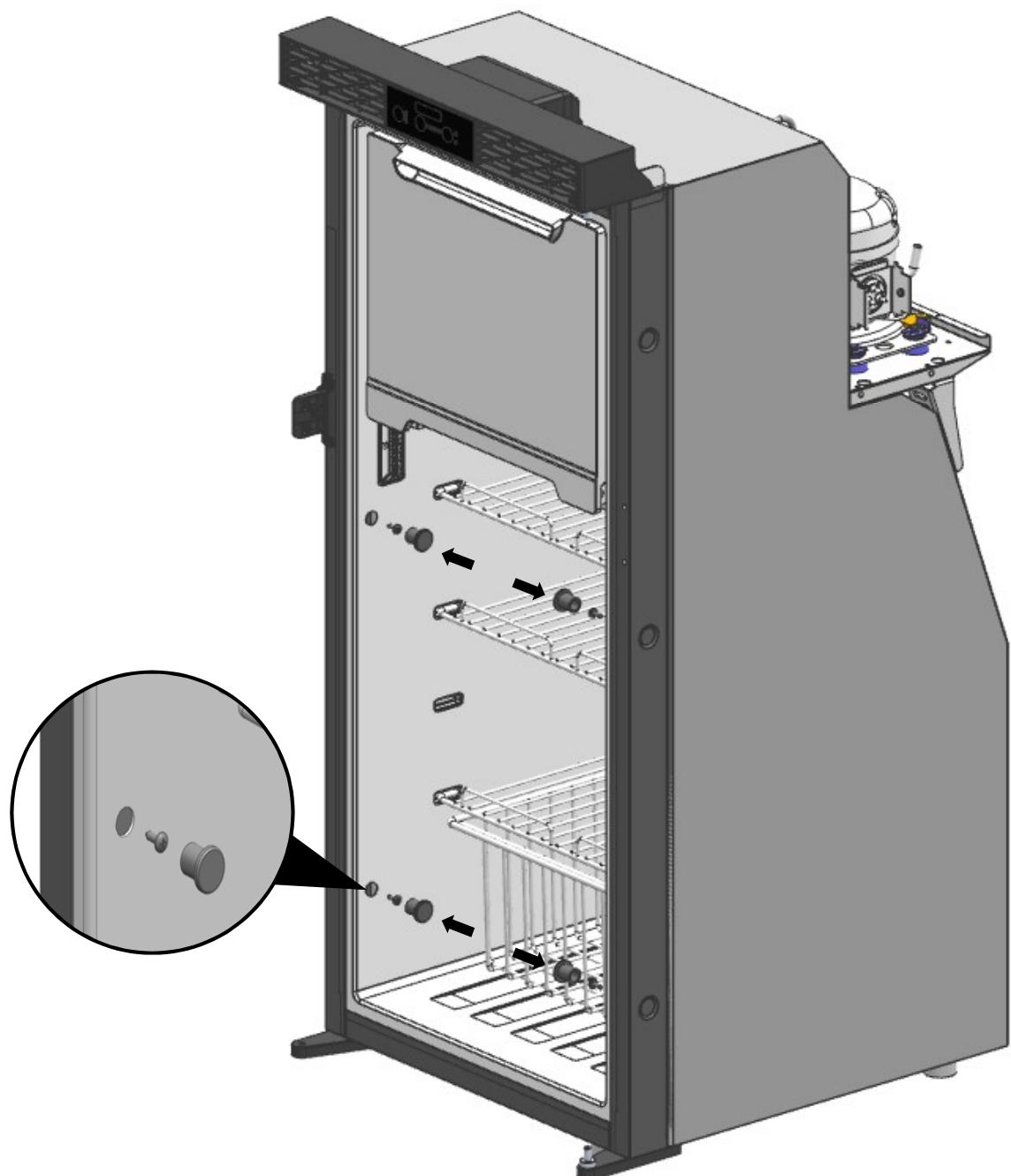
Connect the refrigerator drain pipe reliably.

Push the refrigerator into the recess.

Open the refrigerator door.

Fix the refrigerator in place using suitable screws and press the blanking plugs into the openings.

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8.0 Using the refrigerator

DANGER!

Do not touch exposed cables with your bare hands when the refrigerator is in operation.

WARNING!

- Before starting the refrigerator, make sure the power line and the plug are dry.
- Ensure the ventilation grille on the top of the refrigerator is not blocked or covered.
- Protect the device and cables against heat and moisture.

CAUTION!

- Make sure the vehicle is level and clean it before you operate the refrigerator.
- Let all hot foods cool before putting them in the refrigerator.
- The freezer compartment is made to keep pre-frozen food frozen and not to quick freeze food.
- Ensure foodstuffs do not touch the rear wall of the cooling area.
- Foodstuff may only be stored in its original packaging or in suitable containers.
- The maximum weight per shelve is 5kg. The maximum weight per door-bin is 2kg. The maximum weight for the entire door is 4kg.

NOTE

- Let the refrigerator stand for above 2 ~ 6 hours, and then power on to ensure that the refrigerator can operate normally.
- Let the refrigerator cool for 4 hours before loading with food. If the refrigerator does not start to cool down after about 2 hours, contact your dealer or an authorized Service Center.

8.1 Operating controller



Power switch



Temperature setting

Temperature setting



Operation mode setting



Compressor error light

8.1.1 Power on/off the refrigerator

- Power on the refrigerator by touching the power button  for 1 second, all indicator lamps will be on and the buzzer rings.
- All indicator lamps will be off after 10 seconds except the DC indicator lamp.
- Please wait for a moment as the compressor will start up with some delay.
- Power off the refrigerator by touching the power button  for 10 seconds, the buzzer rings and all indicator lamps will be off.

8.1.2 Temperature setting (Factory default setting is Gear3)

Set the temperature by touching the temperature setting button .

- Press the temperature setting button  to set the temperature from "cold"(only one gear lamp is on) to "very cold"(all five gear lamp are on), refer to the following:

Gear Lamp	●○○○○	●●○○○	●●●○○	●●●●○	●●●●●
Fresh	6~10°C	4~8°C	2~6°C	0~4°C	-2~2°C
Freezer	-17~-10°C	-19~-12°C	-20~-14°C	-21~-15°C	-22~-16°C

- After finishing the temperature setting, the indicator lamp will be off.

NOTE

The cooling performance and power consumption can be affected by:

- The ambient temperature.
- Ventilation.
- The amount of food to be conserved.
- Number and duration of the door opening.
- Battery low voltage protection.

WARNING!

Do not operate the refrigerator when the ambient temperature is above 60°C. Operation above recommended ambient temperatures can cause permanent damage to the compressor. Operation when the ambient temperature is higher than 43°C can result in poor cooling performance.

8.1.3 Operation mode setting (Factory default setting is Boost mode)

Setting the operation mode by touching the mode button .

- SNOOZE:** The fan operates at low speed and the compressor speed is limited, to reduce noise.
- QUICK COOL:** The compressor operates in preset high speed and the refrigerator gets rapid cooling.

8.2 Fault alarm

8.2.1 Refrigerator fault alarm

- If a fault occurs, the gear lamps flashes according to certain rules to indicate the error type. The alarm will continue until the fault is resolved or any button is touched.
- The gear lamps flash 5 times and the buzzer rings 1 times every 5 seconds, If multiple errors occur at the same time, it will display in a loop every 5 seconds.
- The specific Error Code and corresponding Error type are shown on the below table.

Gear Lamp	Error type	Remedy
◎ ○ ○ ○ ○	Fresh temperature sensor failure	Change the sensor
○ ○ ○ ○ ○	Ambient temperature* sensor failure	Change the sensor
○ ○ ○ ○ ○	Ambient temperature* over 131°F(55°C)	Keep ventilation or reduce the ambient temperature
○ ○ ○ ○ ○	Abnormal door opening(Option)	Close the door or change part 12 or 16 or part 20

8.2.2 Compressor fault alarm

Below the power supply lamps, there is an error lamp  .

- If a fault occurs, the error lamp flashes according to certain rules to indicate the error type. The error lamp will continue to flash until the fault is resolved.
- The number of flashes in every 3 seconds will represent different error type. For example, if the error lamp flashes twice every 3 seconds, you can refer to the Error Code 2 in below table.
- The specific Error Code and corresponding Error type are shown on the below table.

Error Code	Error type	Possible cause	Remedy
1	Voltage failure	The input voltage is outside the set range	See section 7.3 on page 9
2	1A Fan current fault	Fan current output current is greater than 1A	Check or change the Fans
3	Starting fault	Compressor motor is blocked or the system pressure is too high	Power off the refrigerator for 10 minutes
4	Minimum speed failure	Compressor load is too large or the motor speed is too small	Check or change the compressor
5	Temperature controller failure	Controller shell temperature over 185°F(85°C)	Keep ventilation or reduce the ambient temperature
6	Controller hardware failure	The controller detects abnormal parameters	Change the driver of compressor

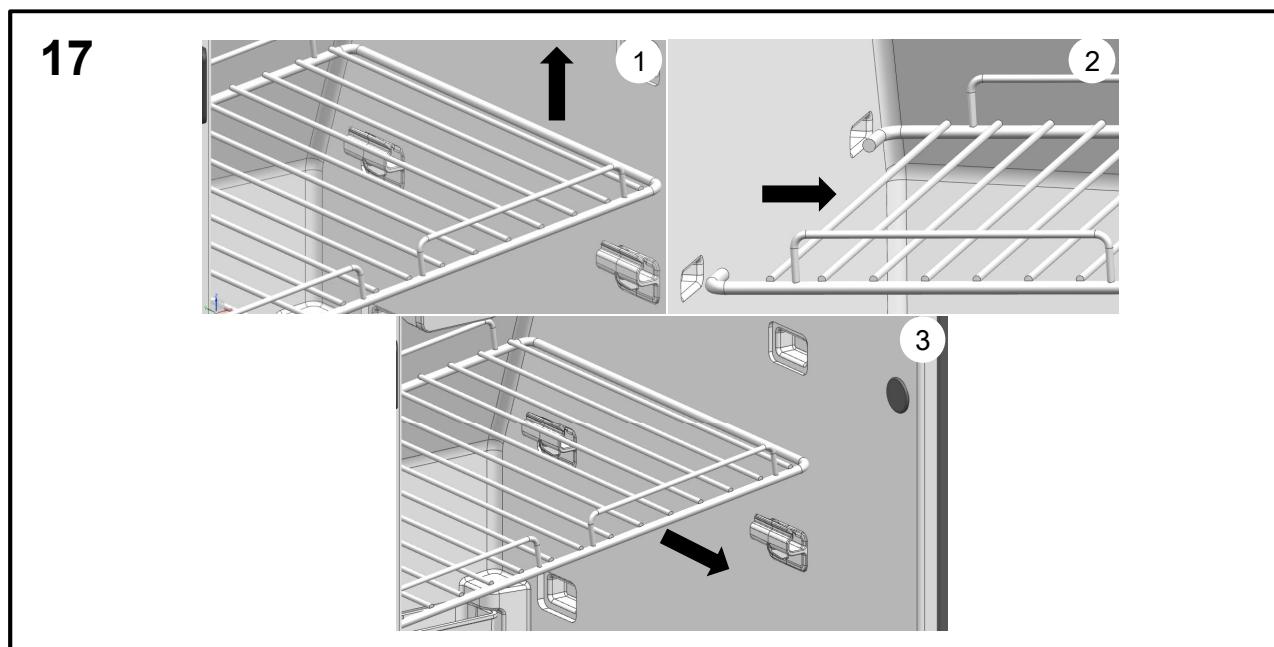
8.3 Defrosting

When the frost thickness of the fresh-compartment's back wall reaches 1mm or the frost thickness of the freezer-compartment's inner wall reaches 3mm, please power off the refrigerator until all the frost is dissolved and clean.

8.4 Removing the shelves

Remove the shelves as per the following steps when needed

- Open the doors to 90° or more.
- Tilt the right of the shelf up, then draw out the left of the shelf. See FIG.17.
- Remove the shelf by pulling it forward.

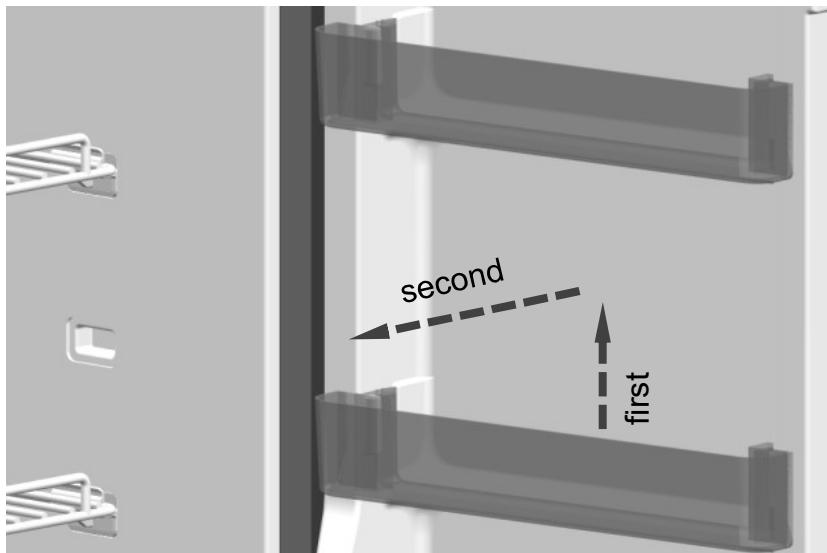


8.5 Removing the Door-bin

Remove the Door bin as per the following steps when needed

- Open the doors to 90° or more.
- Empty the door-bin.
- Lift the door-bin up 2"(50mm),then remove the door-bin by pulling it forward,see FIG.18.

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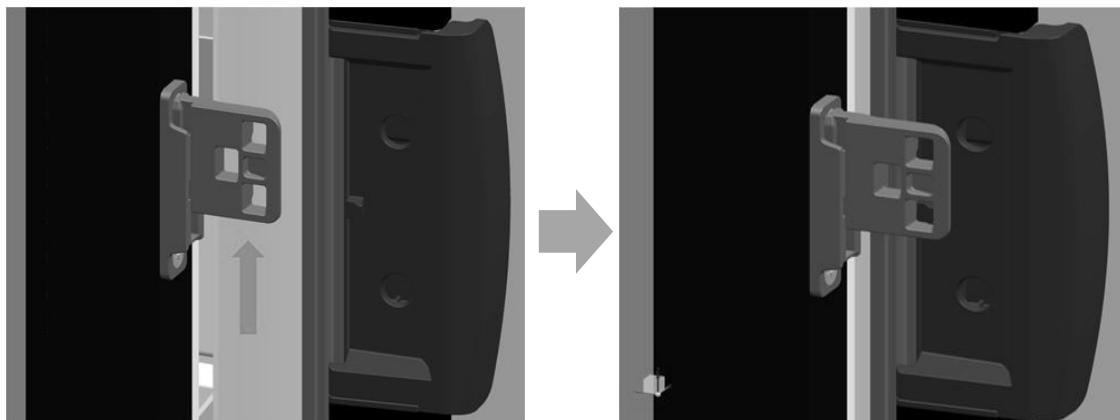


8.6 Storage

If the refrigerator do not use for longer period,it is very important to power off the refrigerator and disconnect the DC power source. Keep the refrigerator doors at ventilation state during storage.

- Empty the refrigerator, and defrost the freezer compartment.
- Clean the complete refrigerator thoroughly.
- Close the doors to the ventilated position, push out vent lock on handle assembly, see FIG.19.

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9.0 Cleaning and maintenance

DANGER!

- Always disconnect the DC power source before you clean and service it.

CAUTION!

- Do not use harsh chemicals, ammonia, chlorine bleach, concentrated detergent, solvents, abrasives or metal scouring pads to clean your refrigerator inside or out. They can damage and/or discolor the refrigerator finish.
- Do not use warm water to clean glass shelves while they are still cold. Glass may break when exposed to sudden temperature changes or impact.
- Do not use hard or sharp tools to remove ice or free objects frozen in the device.

A good time to clean the refrigerator is just after you defrost it. Clean the inside of the refrigerator as often as necessary to avoid food odors:

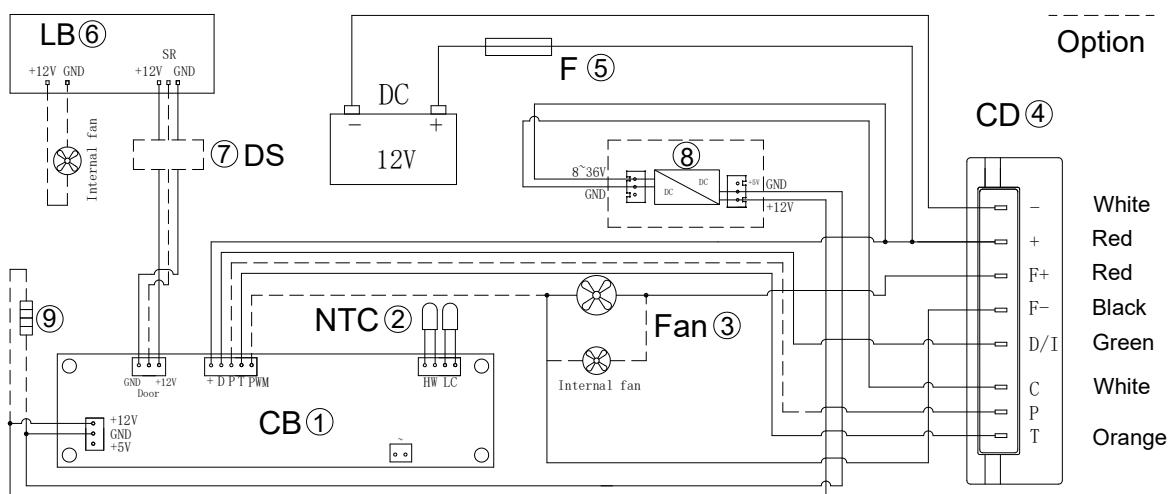
- Remove all food from the refrigerator.
- Clean the interior. Hand wash, rinse, and dry removable parts and interior surfaces thoroughly. Use a clean sponge or soft cloth and a mild detergent in warm water.
- Clean the door and drawer seals (gaskets). A dirty or sticky seal may adhere to the cabinet and tear when you open the door. Using a soft cloth and a solution of mild detergent and warm water, hand wash the door seals. Rinse with clear water and dry thoroughly.
- Clean the exterior surfaces. Wash exterior surfaces with a clean, soft cloth or sponge and a mild detergent in warm water. Rinse surfaces with clean, warm water and dry immediately to avoid water spots.
- Wipe the refrigerator dry with a cloth after cleaning.

10.0 Technical data

Total volume(L)	87(83)
Freezer volume(L)	10.5
Connection voltage	DC 12V
Rated current(12V)	6A
Rated Power Day/Night(W)	55/35@25°C
Energy consumption kW.h/24h@25°C	Boost 0.45 Night 0.38
Storage temperature @gear 3	Freezer -20~-14°C Fresh 2~6°C
Climate class	ST/N
Refrigerant (Quantity)	R600a (23g)
DimensionWxDxH(mm)	419x485x976
Net weight(kg)	24.1
Foaming agent	C5H10
Inspection/Certification	CE / ETL /  / 

11.0 Wiring diagram

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① Controller PCBA ② Thermistor ③ Condenser/Internal fan ④ Compressor Driver
 ⑤ Fuse 15A ⑥ Light PCBA ⑦ Voltage regulator PCBA ⑧ Hot Wire ⑨ Door Switch

To continuously improve our products, we reserve the rights to change some specifications in technical data&wiring diagram without further notice, please check the refrigerator rating plate.

12.0 Troubleshooting

(1) The compressor is not running.

Fault	Possible cause	Remedy
Device does not function and has no power	Connection supply line interrupted	Establish a connection
	Main switch faulty (if installed)	Replace the main switch
Voltage is being applied, but the compressor does not operate	Ambient temperature too high	-
	Insufficient ventilation	Clean existing ventilation or install sufficient ventilation
Electric circuit between the pins in the compressor interrupted	Condenser is dirty	Clean the condenser
	Detective compressor	Replace compressor

(2) Poor cooling, increase in interior temperature.

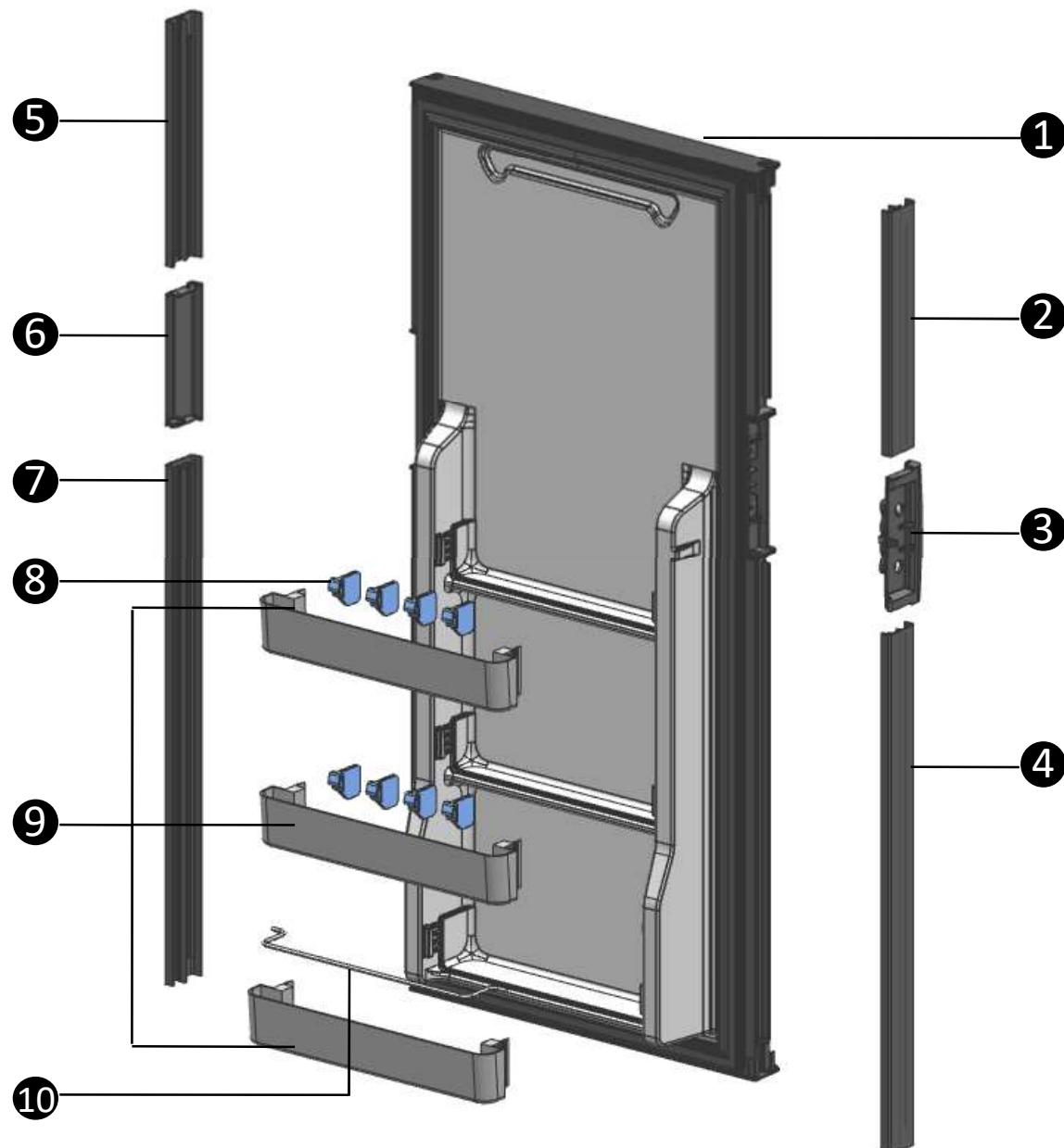
Fault	Possible cause	Remedy
Compressor runs for a long time/continuously	Ambient temperature too high	-
	Insufficient ventilation	Upgrade to satisfy requirements in installation guideline.
	Fan defective	Replace the fan
Compressor does not run often	Battery capacity exhausted	Change the battery

(3) Unusual noises.

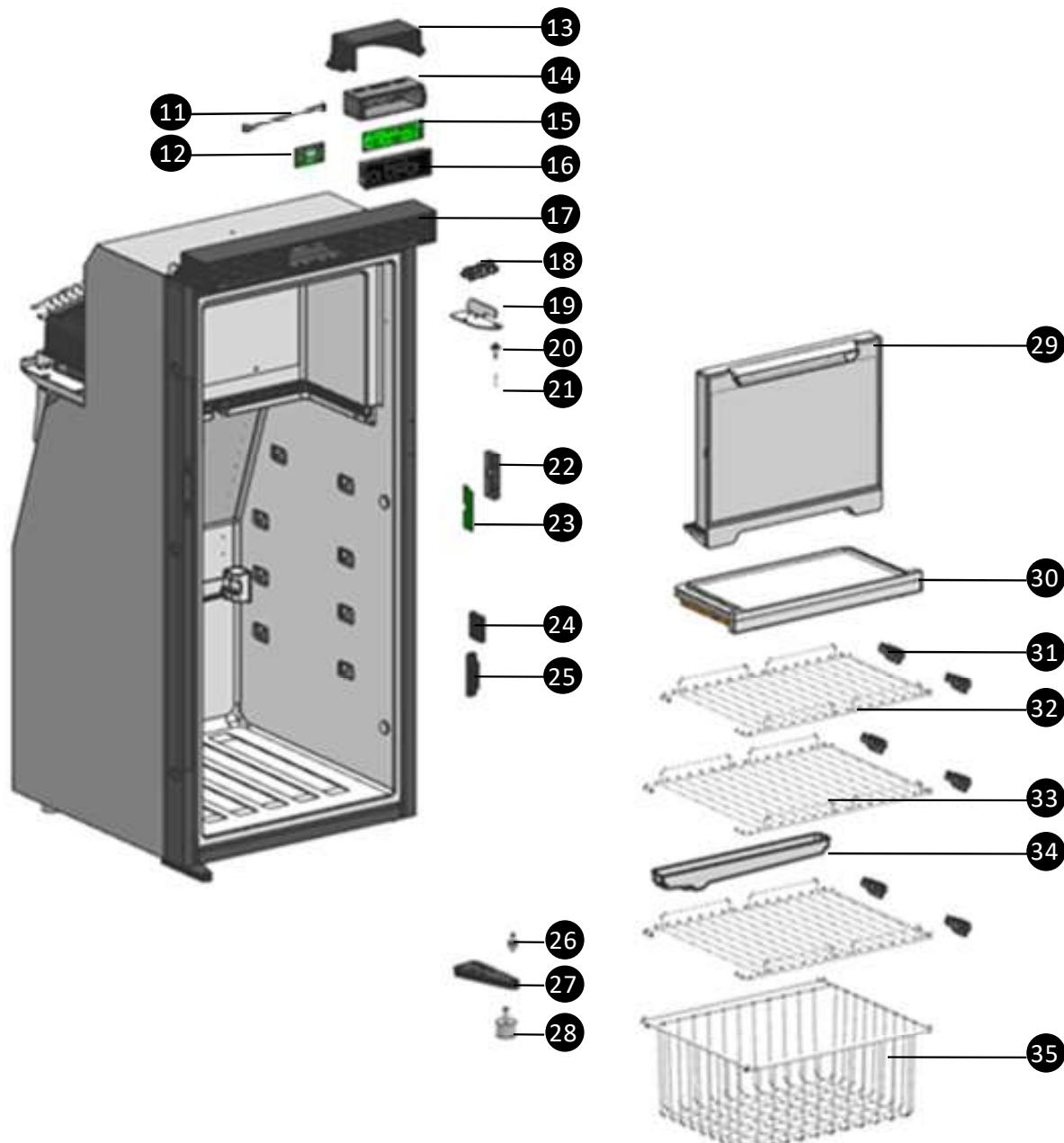
Fault	Possible cause	Remedy
Loud humming	A component of the refrigerant circuit cannot be moved freely (touching the wall)	Bend the component carefully away from the obstruction
	Some foreign objects stuck between the refrigerant circuit and the wall	Remove the foreign object
	Fan noise	Replace the fan

13.0 Spare part list

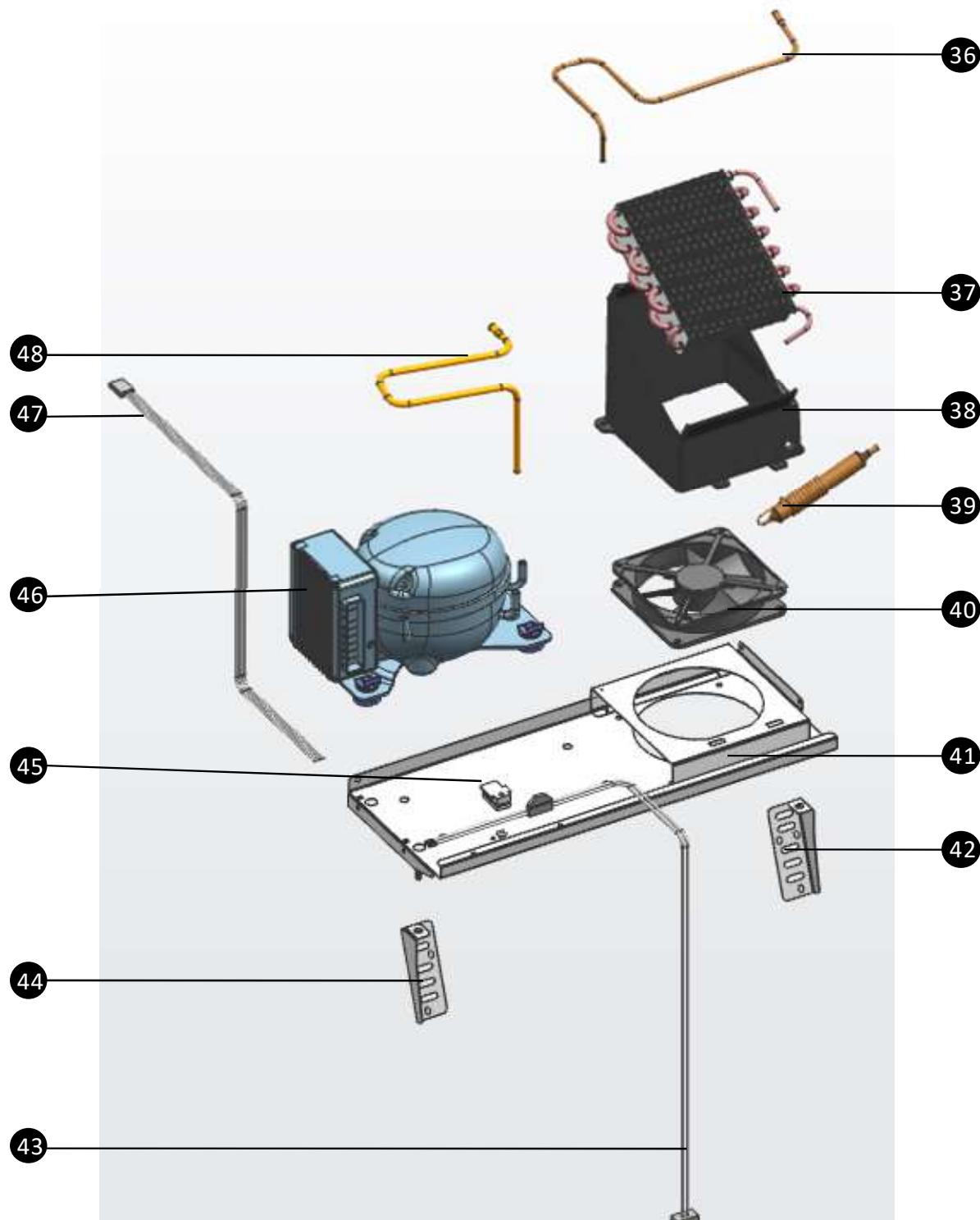
21 Door



22 Cabinet



23 Compressor



No.	Part code	Description	QTY
1	02.04.09041401	Door assembly	1
2	01.03.09041304	Left_up outside frame	1
3	02.04.14540331	Handle assembly	1
4	01.03.09041306	Left_down outside frame	1
5	01.03.09041305	Right_up outside frame	1
6	01.03.14540307	Handle cap	1
7	01.03.09041307	Right_down outside frame	1
8	01.03.04006216	Door bin clapboard	8
9	01.03.03001022	Door bin	3
10	01.01.14540163	Bottle bar	1
11	01.02.00040219	DC-DC line(OS)	1
12	01.02.09240258	Voltage regulator PCBA(OS)	1
13	01.03.14540322	Wire box	1
14	01.03.09040003	Control panel back cover	1
15	01.02.09241259	Controller PCBA	1
16	02.04.14540003	Control panel front cover_asm	1
17	01.03.14540312	Ventilation grille	1
18	01.03.14540345	Reed pipe cover	1
NS	01.01.09041129	Left_up hinge	1
19	01.01.09041130	Right_up hinge	1
20	01.01.14540136	Upper hinge pin	1
21	01.01.14540135	Upper hinge pin spring	1
22	01.03.09041317	Lamp cover	1
23	01.02.09240210	Light PCBA	1
24	01.03.09041316	Locking catch adjuster	1

No.	Part code	Description	QTY
25	01.03.14540311	Locking catch base	1
26	01.01.14540130	Lower hinge pin	1
27	01.01.14540134	Lower hinge	2
28	01.03.02501219	Foot	4
29	02.04.14540329	Freezer door assembly	1
30	02.04.09041402	Middle partition assembly	1
31	01.03.09041313	Fixed column	6
32	01.01.09041101	Ref_upper shelf	1
33	01.01.09041102	Ref_lower shelf	2
34	02.04.14540007	Drain pan_asm	1
35	01.01.09041103	Fruit and vegetable box	1
36	01.04.09041402	Vent-tube	1
37	01.04.14540401	Condenser	1
38	01.03.14540323	Condenser bracket	1
39	01.04.04040006	Filter drier	1
40	01.02.14540213	Condenser fan	1
41	02.04.09041404	Compressor base plate_asm	1
42	01.01.09041112	Compressor_asm left bracket	1
43	01.02.09040068	DC 12V supply cord	1
44	01.01.09041113	Compressor_asm right bracket	1
45	01.03.04006533	Supply cord clamp	1
46	01.02.00040217	Compressor	1
47	01.02.08640205	Control cable assembly	1
48	01.04.09041405	Suction tube	1

OC = Option component

NS = Not shown

