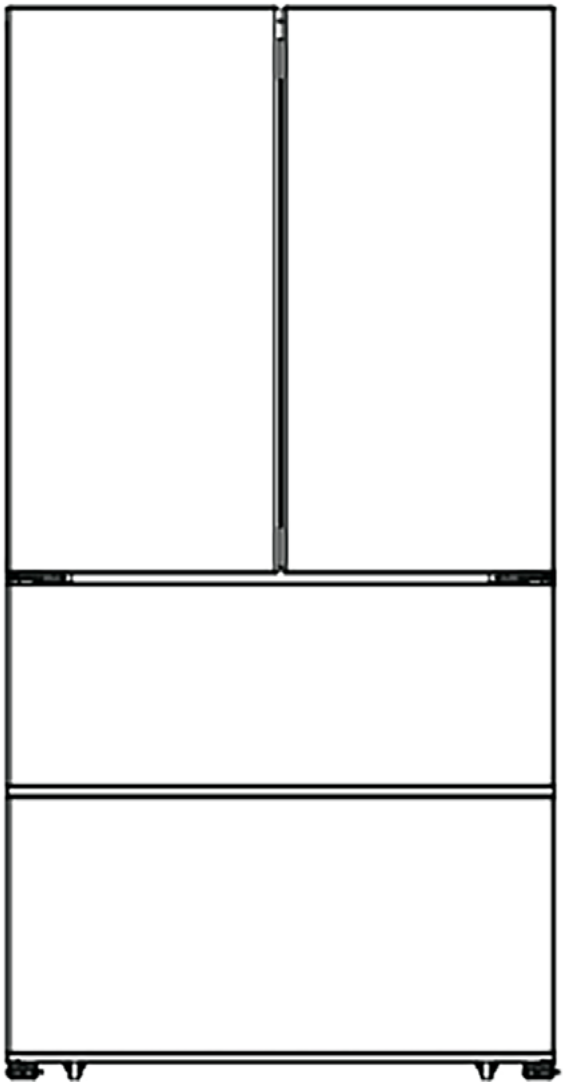
FURRION

ARCTIC 12V FRENCH DOOR REFRIGERATOR

MODEL (LIPPERT PN)
FCR20DCAFA-SG (2022120379)
FCR20DCAFA-BG (2022120380)
FCR20DCAFA-MB (2026066403)

TROUBLESHOOTING AND SERVICE MANUAL



* Picture shown here is for reference only.

This manual contains the product's basic information, safety, maintenance, replaceable parts, fault diagnosis and basic troubleshooting procedures.

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Introduction

This document provides an overview on replaceable parts for Furrion® Arctic 12V French Door Refrigerator, as well as basic troubleshooting and service information.

Please keep this user manual in a safe place for future reference. This will ensure safe use and reduce the risk of injury. Be sure to pass on this manual to new owners of this product.

NOTE: Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ. For more detailed operation, including general safety instructions, warnings and cautions, see Instruction Manual at: https://lci-support-doc.s3.amazonaws.com/furrion%20documentation/refrigeration/manuals/ccd-0007862.pdf or scan this QR code:

Safety

Read and understand all instructions before installing or operating this product. Follow all safety labels at all times.

This manual provides general instructions only. Actual conditions may vary depending on factors such as installation difficulty, operating conditions, and the skill level of the person performing the work. As a result, this manual cannot cover every possible circumstance.

These instructions are intended to guide safe and effective use of the device, product, or system. Failure to follow these instructions properly may result in death, serious personal injury, or significant product or property damage.

⚠WARNING

The "WARNING" symbol above is a sign that a procedure has a safety risk involved and may cause death or serious personal injury if not performed safely and within the parameters set forth in this manual.

⚠WARNING

Failure to follow instructions provided in this manual may result in death, serious personal injury and/or severe product and property damage, including voiding of the component warranty.

⚠ CAUTION

The "CAUTION" symbol above is a sign that a safety risk is involved and may cause personal injury and/or product or property damage if not safely adhered to and within the parameters set forth in this manual.

⚠ CAUTION

Always wear eye protection when performing service, maintenance or installation procedures. Other safety equipment to consider would be hearing protection, gloves and possibly a full face shield, depending on the nature of the task.

Important Safety Instructions

Precautions/Warnings

- This appliance is intended to be used in household and similar applications.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Do not damage the refrigerant circuit.
- Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
- The refrigerant and insulation blowing gas are flammable. When disposing of the appliance, do so only at an authorized waste disposal center. Do not expose to flame.
- When positioning the appliance, ensure the supply cord is not trapped or damaged.
- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
- To avoid a hazard due to instability of the appliance, it must be fixed in accordance with the instructions.
- Do not use mechanical devices to defrost refrigerator.

Refrigerant

⚠ DANGER

RISK OF FORE OR EXPLOSION
FLAMMABLE REFRIGERANT USED. FOLLOW HANDLING INSTRUCTIONS CAREFULLY. DO NOT PUNCTURE REFRIGERANT TUBING. REPAIRS MUST BE CARRIED OUT BY A QUALIFIED INSTALLER, SERVICE AGENCY, MANUFACTURER OR DEALER. DISPOSE OF PROPERTY IN ACCORDANCE WITH FEDERAL OR LOCAL REGULATIONS.



The refrigerant isobutane (R600a) is contained within the refrigerant circuit of the refrigerator, a natural gas with a high level of environmental compatibility, which is nevertheless flammable. During transportation and installation of the appliance, be certain that none of the components of the refrigerant circuit become damaged.

If the refrigerant circuit should become damaged:

- Avoid open flames and sources of ignition
- Thoroughly ventilate the room in which the appliance is situated.

Proper Disposal of the Refrigerator

⚠ DANGER

Risk of child entrapment.

To avoid the possibility of child entrapment, please take the following precautions before you dispose of your refrigerator:

- Remove all doors.
- Leave shelves in place so children may not easily climb inside.
- Never allow children to play with, operate or crawl inside the refrigerator.

Child entrapment and suffocation are not problems of the past. Junked or abandoned refrigerators are still dangerous even if they will sit for "just a few days." If you are getting rid of your old refrigerator, please follow the instructions below to help prevent accidents.

Before you throw away your old refrigerator or freezer:

- Take off the doors.
- Leave the shelves in place so that children may not easily climb inside.

Cleaning and Maintenance

⚠ DANGER

ELECTRIC SHOCK!
Always disconnect power before cleaning or maintenance.

NOTE: Remove food from the appliance before cleaning and store in a cool place.

⚠ CAUTION

Do not use thinner, car detergent, Clorox, ethereal oil, abrasive cleansers or organic solvent such as Benzene for cleaning as they may damage the surface of the appliance and may cause fire.

Exterior Cleaning

- Wipe the digital panel and display panel with a clean, soft cloth.
- Spray water onto the cleaning cloth instead of spraying directly on the surface of the appliance. This helps ensure an even distribution of moisture to the surface.
- Clean the doors and cabinet surfaces with a mild detergent and then wipe dry with a soft cloth.

Interior Cleaning

- Wipe the inside of the refrigerator and freezer with a weak solution of baking soda and rinse with warm water using a wrung-out sponge or cloth.
- Wipe surfaces completely dry before replacing the shelves and baskets. Thoroughly dry all surface and removable parts.

Door Seal Cleaning

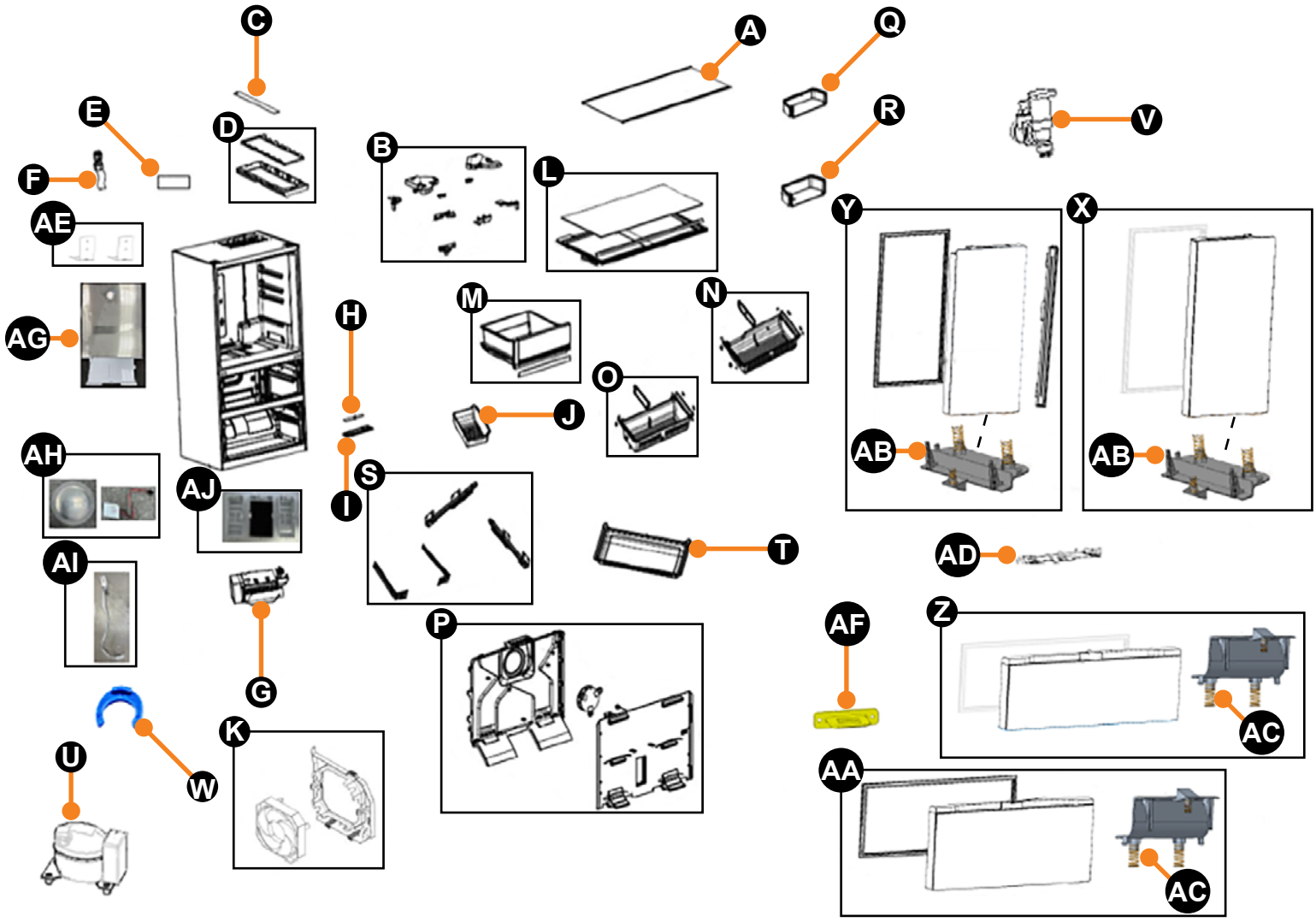
Take care to keep door seals clean. Sticky food and drinks can cause seals to stick to the cabinet and tear when you open the door.

- Wash seals with a mild detergent and warm water.
- Rinse and dry it thoroughly after cleaning.

⚠ CAUTION

Do not power on the appliance until all surfaces of the refrigerator freezer are completely dry.

Replaceable Parts List



Callout	Part #	Description	Model
A	2022453299	Glass Shelf Assembly	All
B	2022453300	Hinge Kit	All
C	2022453301	Cooler LED Light	All
D	2022453302	Cooler Lamp Assembly	All
E	2025014800	Main Control Panel, Printed Circuit Board Generation 2.0	All
	2025014801	Main Control Panel, Printed Circuit Board Generation 2.1	All
F	2022453304	Water Valve Connector Kit	All
G	2022453305	Ice Maker Assembly	All
H	2022453306	Freezer LED Light	All
I	2022453307	Freezer Lamp Cover	All
J	2022453308	Ice Storage Box	All
K	2022453309	Condenser Fan Assembly (Includes condenser fan, fan mounting bracket and sealing sponge stick on fan mounting bracket)	All

Callout	Part #	Description	Model
L	2022453310	Vegetable Glass Shelf Frame Assembly	All
M	2022453311	Vegetable Drawer Assembly	All
N	2022453312	Freezer Upper Drawer Assembly	All
O	2022453313	Freezer Lower Drawer Assembly	All
P	2022453314	Freezer Motor Assembly	All
Q	2022453315	Balcony (Upper Door Bin)	All
R	2022453316	Gallon Bin (Lower Door Bin)	All
S	2022453319	Drawer Glides Assembly	All
T	2022453320	Upper Drawer #2	All
U	2022128891	Compressor Driver Board	All
V	2022453322	Water Valve-2	All
W	2022453323	Blue Water Valve Clip	All
X	2023033701	Right Refrigerator Door Assembly, Stainless Steel	FCR20DCAFA-SG
	2023033705	Right Refrigerator Door Assembly, Black	FCR20DCAFA-BG
	2026072613	Right Refrigerator Door Assembly, Matte Black	FCR20DCAFA-MB
Y	2023033702	Left Refrigerator Door Assembly, Stainless Steel	FCR20DCAFA-SG
	2023033706	Left Refrigerator Door Assembly, Black	FCR20DCAFA-BG
	2026072614	Left Refrigerator Door Assembly, Matte Black	FCR20DCAFA-MB
Z	2023033703	Upper Freezer Drawer Door Assembly, Stainless Steel	FCR20DCAFA-SG
	2023033707	Upper Freezer Drawer Door Assembly, Black	FCR20DCAFA-BG
	2026072615	Upper Freezer Drawer Door Assembly, Matte Black	FCR20DCAFA-MB
AA	2023033704	Lower Freezer Drawer Door Assembly, Stainless Steel	FCR20DCAFA-SG
	2023033708	Lower Freezer Drawer Door Assembly, Black	FCR20DCAFA-BG
	2026072616	Lower Freezer Drawer Door Assembly, Matte Black	FCR20DCAFA-MB
AB	2023033709	Refrigerator Door Latch	All
AC	2023033710	Drawer Latch	All
AD	2024017843	Upper Door Lock Bracket	All
AE	2024000547	Top Mounting Bracket Kit For FCR20DCAFA	All
AF	2025047707	Lower Door Lock Bracket	All
AG	2025064003	Refrigerator Temperature Sensor and Upper Air Duct Cover Assembly	All
AH	2025064004	Fresh LED Cover and LED PCB Kit	All
AI	2025064005	Defrost Sensor	All
AN	2025064006	Charcoal Filter and Bracket Assembly	All

Troubleshooting

⚠WARNING

Before troubleshooting, disconnect the power supply.

IMPORTANT!

When the compressor is being turned on, the refrigerator creates some sounds/noises, like gurgling - this is perfectly normal.

Repairs to refrigerators/freezers may only be performed by competent service engineers. Improper repairs can give rise to significant hazards for the user. If your appliance needs repairing, please contact your specialist dealer or your local Service Centre.

Normal Phenomena

Normal Phenomena	Cause
Button failure.	When the refrigerator is in lock mode, buttons will not work. Check the control panel to remove lock mode.
Low voltage, the compressor can't start.	Low power. Charge the RV batteries by connecting the RV to the shore power.
Long time to start.	When the surrounding ambient temperature is high, it will take a while to feel the compartments cooling.
Middle beams feel hot.	Middle beams feel hot after a period of time of the appliance running, it belongs to the normal phenomenon.
Dew drops on the outer side of the refrigerator.	When external air flows into the cool inner surface of the fridge, dew drops can be formed. If the humidity of the installed location is high or it is during rainy season, dew drops can form on the outer side of the fridge. This is a natural phenomenon that occurs during the humid weather. Wipe the water drops with a dry cloth.
Noise.	When you operate the fridge for the first time, the fridge will operate at high speed to cool fast and the sound can seem louder. When the internal temperature falls below a certain level, the noise will subside. When the operation of the compressor is starting or ending; various parts expanding/contracting or various control devices operating or temperature change within the fridge, you will hear the sounds, these are normal sounds.
Compressor hot.	When working, the temperature of the compressor housing may rise to more than 176 °F (80 °C) - please do not touch the compressor, it may cause serious injury.
Compressor long time running.	When the ambient temperature too high or put too much fresh foods into the refrigerator, it will take long time to cool down until the appliance run at the setting temperature.
Abnormal odors in refrigerator.	Check for bad food or food with strong odors. Odorous food should be packaged tightly. clean the inside of the refrigerator.

Normal Phenomena	Cause
Ice maker failing to work normally.	Check the ice maker switch is turned on; whether the freezer compartment door is closed or ajar; Whether the water valve is opened; whether water supply is obstructed, or water pressure is too low; Whether the temperature of freezer compartment is high due to just power connection or frequent use.
Water leakage from ice outlet upon power-on for the first time.	During power up, the system will undergo a self-check process which will allow a little water flow out of the ice maker. This is normal, and should be dried up.
Ice frozen together when ice maker operates stably	If ice is not used frequently, ice cubes may freeze together; take out the frozen ice cubes from the ice storage box, break into pieces and then put back, or discard directly.

Troubleshooting

Before calling for service, review this list. It may save you both time and expense. This list includes common occurrences that are not the result of defective workmanship or materials in this appliance.

Problem	Possible Cause	Solution
No display on the display panel.	The fuse for the domestic supply is switched off.	Check whether the power is on; the fuse must be switched on.
Alarm sound.	Door has been open for more than 1 minute.	Close the door completely.
The compressor is not working.	Compressor will turn on/ off normally to maintain temperature.	If the cavity compartments maintain a cold temperature, then everything is normal.
	The unit is in defrosting mode, no power.	Check all wiring connections and fuses.
	The unit was not turned off during storage, and over temped.	Disconnect power so that no display or cavity light illuminates, and reconnect power. This will reset power to the unit.
Compressor runs too long.	The fridge has recently been disconnected for a period of time. Put too much fresh or hot food. Doors are opened too frequently or too long.	It takes several hours for the refrigerator to cool down completely. Hot food will cause the fridge to run longer until the desired temperature is reached. Warm air entering the fridge cause it to run longer. Open the door less often.
Vibrating noise.	Floor is uneven or weak. Items placed on the top of the fridge are vibrating. Fridge is touching wall or cabinets.	Be sure floor is level and solid and can adequately support refrigerator. Remove items. Move refrigerator so that does not touch the wall or cabinets.

Specifications

Total Capacity	19.6 cu. ft. (555L)
Freezer Capacity	7.25 cu. ft (205L)
Refrigerator Capacity	12.31 cu. ft (350L)
Noise (dB)	≤42dB
Door Type	French door
Handle	Recessed handle
Control Type	LED display with electronic control
No. of Shelves	3
No. of Crisper	Total 4 drawers: 2 in fridge compartment, 2 in freezer compartment
Cooling Type	Compression cooling system
Refrigerant	R600a
Rated Voltage	12V DC
Rated Current	15A
Power Consumption	566kwh/year
Off-Grid Rating	4.9Ah@77°F (25°C)
Temperature Range	Refrigerator: 32°F to 43°F (0°C to 6°C) adjustable Freezer: -10°F to 5°F (-23°C to -15°C) adjustable
Working Temperature Range	50°F to 110°F (10°C to 43°C)
Defrost	Automatic
Certification	CSA

Climate Class

- Extended temperate(SN): this refrigerating appliance is intended to be used at ambient temperatures ranging from 50 °F (10 °C) to 90 °F(32 °C);
- Temperate(N): this refrigerating appliance is intended to be used at ambient temperatures ranging from 61 °F(16 °C) to90 °F(32 °C);
- Subtropical(ST): this refrigerating appliance is intended to be used at ambient temperatures ranging from 61 °F(16 °C) to 100 °F(38 °C);
- Tropical(T): this refrigerating appliance is intended to be used at ambient temperatures ranging from 61 °F(16 °C) to 109 °F(43 °C).



This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.
To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

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