Everchill®

BY FURRION

10.7 CU. FT. 12V REFRIGERATOR

MODEL (LIPPERT PN)

BCD280WEV804H-6-LHH (2022302037)
BCD280WEV804H-6-RHH (2022302038)
BCD280WEV804H-B-6-LHH (2022302310)
BCD280WEV804H-B-6-RHH (2022302311)
WD-280FWDC-ES-6-LHH (2022302163)
WD-280FWDC-ES-6-RHH (2022302143)
WD-282FWDC-BS-6-LHH (2022302162)
WD-282FWDC-BS-6-RHH (2022302042)

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.

TABLE OF CONTENTS

Introduction **2**
Safety **2**
Important Safety Instructions **3**
Precautions/Warnings 3
Electric Shock Hazard 3
Maintenance and cleaning **4**
Replaceable Parts List **5**
Troubleshooting **7**
Fault Display **8**

Introduction

This document provides an overview on replaceable parts for Everchill® and Cannon® 10.7 Cu. Ft. 12V Refrigerator, as well as basic troubleshooting and service information.

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/everchill_refrigeration/ccd-0007521.pdf or scan this QR code:

Safety

Read and understand all instructions before installing or operating this product. Adhere to all safety labels.

This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the Lippert limited warranty.

⚠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

⚠ CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within your refrigerator.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your refrigerator.

Precautions/Warnings

1. Do not use your refrigerator near water.
2. Clean only with a damp cloth.
3. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
4. Do not install near any heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
5. Refer all servicing to qualified service personnel. Servicing is required when your refrigerator has been damaged in any way, such as liquid has been spilled or objects have fallen into your refrigerator, your refrigerator has been exposed to rain or moisture, does not operate normally, or has been dropped.
6. To reduce the risk of fire or electric shock, do not expose your refrigerator to rain, moisture, dripping, or splashing, and no objects filled with liquids should be placed on top of it.
7. Your refrigerator 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 your refrigerator by a person responsible for their safety.
8. Children should be supervised to ensure that they do not play with your refrigerator.

Electric Shock Hazard





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

1. Keep ventilation openings, in both your refrigerator and the built-in structure, clear of obstruction.
2. Do not touch the interior of your refrigerator with wet hands. This could result in frostbite.
3. Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
4. Do not damage the refrigerant circuit.
5. Do not damage the refrigerant tubing when handling, moving, or using your refrigerator.
6. DANGER-Never allow children to play with, operate, or crawl inside your refrigerator.

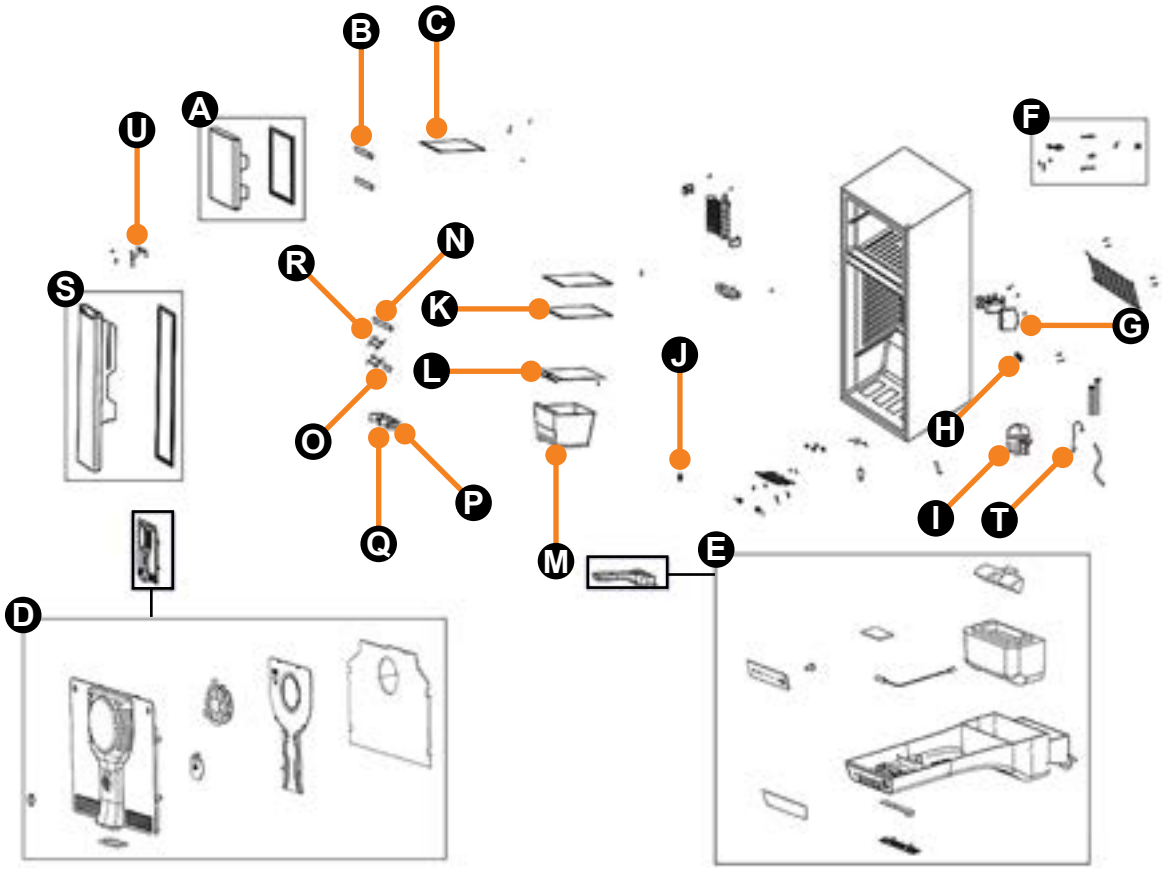
Risk of child entrapment. Before you throw away your old refrigerator:
    - Take off the door.
    - Leave the shelves in place so that children may not easily climb inside.
7. Do not use electrical appliances inside the food storage compartments of the appliance unless they are of the type recommended by the manufacturer.
8. To avoid a hazard due to instability of the appliance, it must be fixed in accordance with the instructions.
9. Power source disconnected your refrigerator before carrying out user maintenance on it.
10. 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.
11. Follow local regulations regarding disposal of your refrigerator 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. Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
13. This appliance is intended to be used in the recreational vehicle.
14. Disposal of your old appliance: By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information, please contact your local city office, your household waste disposal service or the shop where you purchased the product.
15. 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.
16. There is a power switch for the refrigerator. Before any maintenance, please disconnect the switch.

Maintenance and cleaning

 When cleaning, Do not stretch your hands into the bottom of the refrigerator. You might be scratched by sharp metal corners.

- Clear off the dusts accumulated on the rear panel and side plates of the refrigerator often.
- After using detergent, be sure to rinse it with clean water, and then wipe it dry.
- Do not use bristle brush, steel wire brush, detergent, soap powder, alkaline detergent, benzene, gasoline, acid, hot water and other corrosive or soluble items to cleanse the cabinet surface, door gasket, plastic decorative parts, etc., so as to avoid damage.
- Carefully wipe dry the door gasket and clean the groove. After the cleaning, fix the four corners of the door gasket first, and then embed it segment by segment into the door groove.
- Take care of the frozen foods in the event of an extended non-running of the refrigerating appliance (such as interruption of power supply or failure of the refrigerating system).
- Try to open the refrigerator door as little as possible, this way food can safely and freshly be kept for hours even in hot summer.

Replaceable Parts List



Callout	Part #	Description	Model
KIT A	2022302169	Freezer Door, Stainless Steel	BCD280WEV804H-6-LHH BCD280WEV804H-6-RHH
		Freezer Door Gasket, Stainless Steel	
	2022302083	Freezer Door, Black	BCD280WEV804H-B-6-LHH BCD280WEV804H-B-6-RHH
		Freezer Door Gasket, Black	
	2022302171	Freezer Door, Black Stainless Steel	WD-280FWDC-ES-6-LHH WD-280FWDC-ES-6-RHH
		Freezer Door Gasket, Black Stainless Steel	
	2022302152	Freezer Door, Black Stainless Steel	WD-282FWDC-BS-6-LHH WD-282FWDC-BS-6-RHH
		Freezer Door Gasket, Black Stainless Steel	
B	2022451384	Freezer Bottle Bar	All
C	2022451394	Freezer Shelf	All
KIT D	2023010247	Freezer Fan Assembly	All
	N/A	Knob	All
	N/A	Freezer Duct Cover Plate	All
	N/A	Adjustable Wind Plate (Air Flow Control Plate)	All
	N/A	Freezer Fan	All
	N/A	Freezer Duct Inner Cover	All
	N/A	Freezer Air Duct Cover Plate	All
	N/A	Freezer Duct Sealing Part	All

Callout	Part #	Description	Model
KIT E	2023009065	Fridge Duct Assembly	All
	N/A	Display Circuit Board	All
	N/A	Screw	All
	N/A	Sensor Sealing Part	All
	N/A	Sensor	All
	N/A	Refrigerator Duct Foam 1	All
	N/A	Refrigerator Duct Foam 2	All
	N/A	Operating Panel	All
	N/A	Lampshade (Lens)	All
	N/A	LED Light PCB	All
	N/A	Refrigerator Duct Cover Plate	All
KIT F	2023009066	Refer Hinge Kit	All
	N/A	Screw	All
	N/A	Mid-Hinge	All
	N/A	Upper Hinge Cover	All
	N/A	Screw	All
	N/A	Upper Hinge	All
	N/A	Lower Door Hinge Part	All
	N/A	Screw	All
G	2022302130	Control Board/ 12V REFER PARTS, CIRCUIT BOARD FOR BCD/WD280 & WD282, 258010002412-R134A	All with R134a Refrigerant
	2022302238	Control Board / 12V REFER PARTS, CIRCUIT BOARD FOR BCD/WD280 &WD282, 258010002412-R600	All with R600a Refrigerant
H	2023002650	Power Supply Connecting Box (Terminal Block)	All
I	2022451396	Compressor Board R134	All with R134a Refrigerant
	2022455251	Compressor Board R600	All with R600a Refrigerant
J	2022451378	Adjustable Leg	All
K	2022455253	Refrigerator Shelf	All
L	2022451373	Crisper Drawer Cover	All
M	2022451367	Crisper Drawer	All
N	2022451397	Refrigerator Upper Bottle Bar	All
O	2022451386	Refrigerator Lower Bottle Bar	All
P	2022455252	Plastic Gallon Bottle Bar Short	All
Q	2022451395	Plastic Gallon Bottle Bar Long	All
R	2023002649	Steel Cola Rack	All

Callout	Part #	Description	Model
KIT S	2022302199	Refrigerator Door Gasket, Stainless Steel	BCD280WEV804H-6-LHH BCD280WEV804H-6-RHH
		Refrigerator Door, Stainless Steel	
	2022302107	Refrigerator Door Gasket, Black	BCD280WEV804H-B-6-LHH BCD280WEV804H-B-6-RHH
		Refrigerator Door, Black	
	2022302201	Refrigerator Door Gasket, Black Stainless Steel	WD-280FWDC-ES-6-LHH WD-280FWDC-ES-6-RHH
		Refrigerator Door, Black Stainless Steel	
	2022302129	Refrigerator Door Gasket, Black Stainless Steel	WD-282FWDC-BS-6-LHH WD-282FWDC-BS-6-RHH
		Refrigerator Door, Black Stainless Steel	
T	2023004485	Power cables w/Fuse	All
U	2023003927	Door Holder (Travel Lock)	All

Troubleshooting

What Is Happening?	Why?	What Should Be Done?
Completely non-refrigeration	Power source connected is OK?	Refer to the wiring diagram, check the power wiring connection.
	Are breakers and fuses broken?	Opening the door and checking whether the lamp is lit.
	No electricity or line trip?	Check fuse
Abnormal noise	Is refrigerator stable?	Adjusting refrigerator's leveling feet.
	Does refrigerator contact the wall?	Move off the wall.
Poor refrigerating efficiency	Do you put hot food or too much food?	Putting food into refrigerator when hot food becomes cool.
	Do you open the door frequently?	Checking and closing the door.
	Do you clip food bag to the door gasket?	
	Direct sunlight or near a furnace or stove?	Removing the refrigerator from the heat source.
	Is it well-ventilated?	Emptying the distance to maintain good ventilation.
	Temperature setting in too high?	Setting to the appropriate temperature.

What Is Happening?	Why?	What Should Be Done?
Peculiar smell in refrigerator.	Any spoiled food?	Throw away spoiled food.
	Do you need to clean refrigerator?	Clean the refrigerator.
	Have you packed food with strong odors?	Pack foods with strong odors in tightly sealed containers.
Refrigerator not cooling.	Are indicator lights “2” and “3” on? Is the ‘Power Off' function activated?	Press the corresponding key to exit the ‘Power Off' function.
The light is not working.	LED light may be damaged.	Check LED light and replace if damaged.
	Door remains open too long.	The control system has disable the lights due to the door being kept open too long, close and reopens the door to reactivate the lights.
Compressor fault.	Does the battery have sufficient electricity?	If the battery power falls below 9V, this may lead to the compressor under voltage protection. Charge or replace the battery if necessary.
		If the battery level is high (above 11V), or the battery with sufficient power has been replaced, wait for 5 minutes to observe whether it can return to normal; if not, please contact customer service.

Fault Display

Fault display shows as following under Fault mode:

S/N	Item Information	Error Type
1	Indicator light “1”keeps flashing	Refrigerator sensor fault
2	Indicator light “2”keeps flashing	Ambient temperature sensor fault
3	Indicator light “3”keeps flashing	Freezer defrosting sensor fault
4	Indicator light “4”keeps flashing	Under voltage alarm
5	Indicator light “5”keeps flashing	Over voltage
6	Indicator light “1”and “3”keeps flashing	Fan failure

NOTE: When the refrigerator indicator lights are flashing in the above manner, please contact customer service for maintenance.

Furrion Ltd. and Furrion, LLC (Furrion) are wholly owned subsidiaries of Lippert Components, Inc. (Lippert)

Furrion, LLC: 52567 Independence Ct., Elkhart, IN 46514

Furrion Innovation Center & Institute of Technology

22244 Innovation Drive, Elkhart, IN 46514-5514, USA

Toll free:1-800-789-3341
Email: customerservice@lci1.com

©2007-2026 Furrion, LLC. All rights reserved.

For Patent Info: www.lippert.com/patents

SUPPORT.LCI1.COM/FURRION

The contents of this manual are proprietary and copyright protected by Lippert. Lippert prohibits the copying or dissemination of portions of this manual unless prior written consent from an authorized Lippert representative has been provided. Any unauthorized use shall void any applicable warranty. The information contained in this manual is subject to change without notice and at the sole discretion of Lippert. Revised editions are available for free download from lippert.com.

Please recycle all obsolete materials.

For all concerns or questions, please contact Lippert.
Ph: 432-LIPPERT (432-547-7378) | Web: lippert.com | Email: customerservice@lci1.com