Everchill®

BY FURRION

8 AND 10 CU.FT. 12V REFRIGERATOR WITH TOP MOUNT FREEZER BUILT-IN

MODEL (LIPPERT PN)

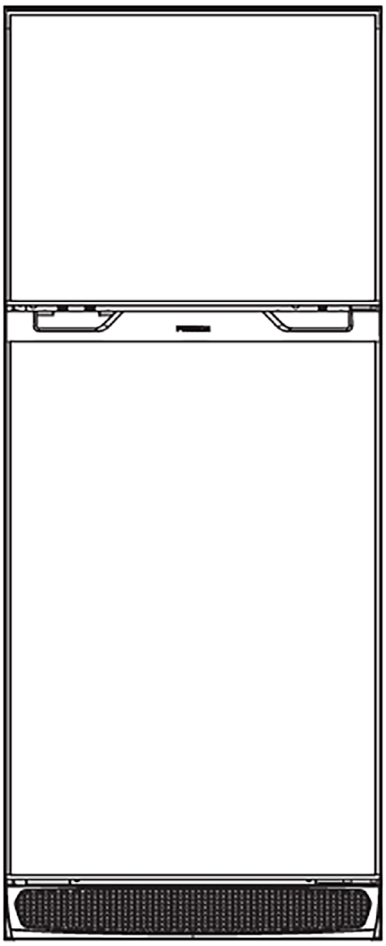
ECR08DCGTA-PR-RHH (2023009175)

ECR08DCGTA-PR-LHH (2023009176)

ECR10DCGTA-PR-RHH (2023009185)

ECR10DCGTA-PR-LHH (2023009186)

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® Everchill 8 and 10 Cu. Ft. 12V Refrigerator, Top Mount Freezer, Built-in, 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://support.lci1.com/documents/ccd-0007707 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. Make sure the power source is disconnected on 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.

Power Source Requirement

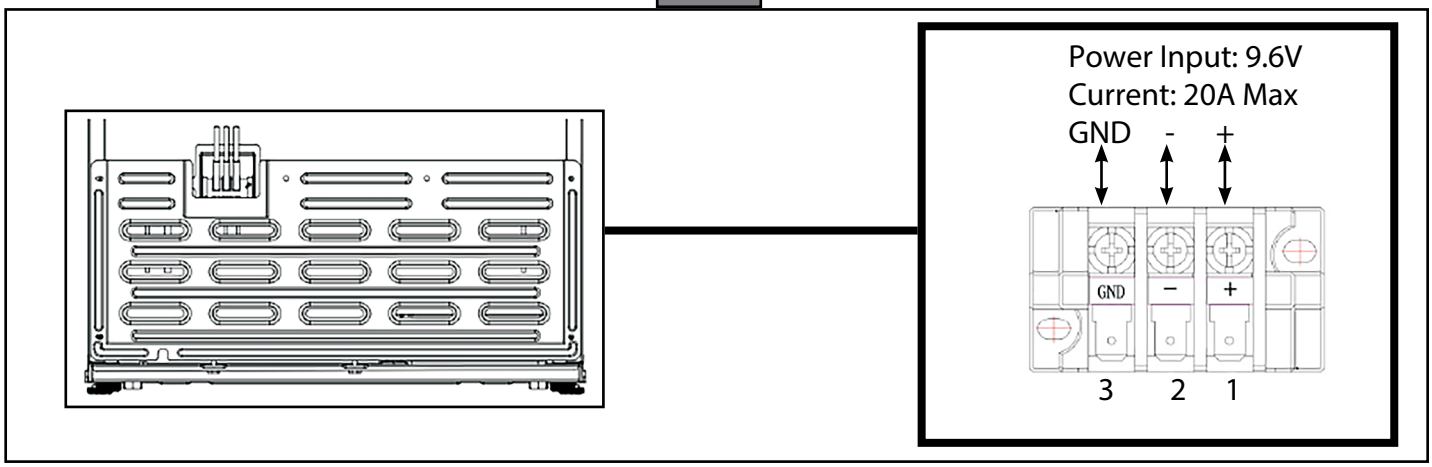
This appliance is a Class III appliance which must only be connected to a 12 Volt power source.
The circuit must be protected properly between the appliance and power supply main, 15A min, 20A max is acceptable.
Do not use auto resetting or minibreaker type circuit protection.
Before using, disconnect the appliance from main power supply and wiring connections should be made according to the wiring diagram.
For normal use, the connection to the power source connection must meet the following requirements:

Wire Size	The Max Length (Feet)
14 AWG	5 Feet
12 AWG	10 Feet
10 AWG	15 Feet
8 AWG	23 Feet
6 AWG	38 Feet
Remarks	This DC unit is not equipment with a power source. Please purchase a power source from an authorized dealer. For maximum battery performance ensure the voltage drop between each power source (battery & converter) and the refrigerator does not exceed 0.4V DC.

NOTE: Only authorized or qualified professionals should perform repair services for this appliance.

Wire Connection Diagram

Fig. 1



1. Connect 1 terminal with Positive pole of 12V DC (Fig. 1).
2. Connect 2 terminal with Negative pole of 12V DC (Fig. 1).
3. If the unit is installed in an RV, the 3 GND terminal should be connected directly to the RV chassis (Fig. 1).

Maintenance and cleaning

⚠ When cleaning, Do not stretch your hands into the bottom of the refrigerator, since 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, 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 least as possible, this way food can safely and freshly be kept for hours even in hot summer.

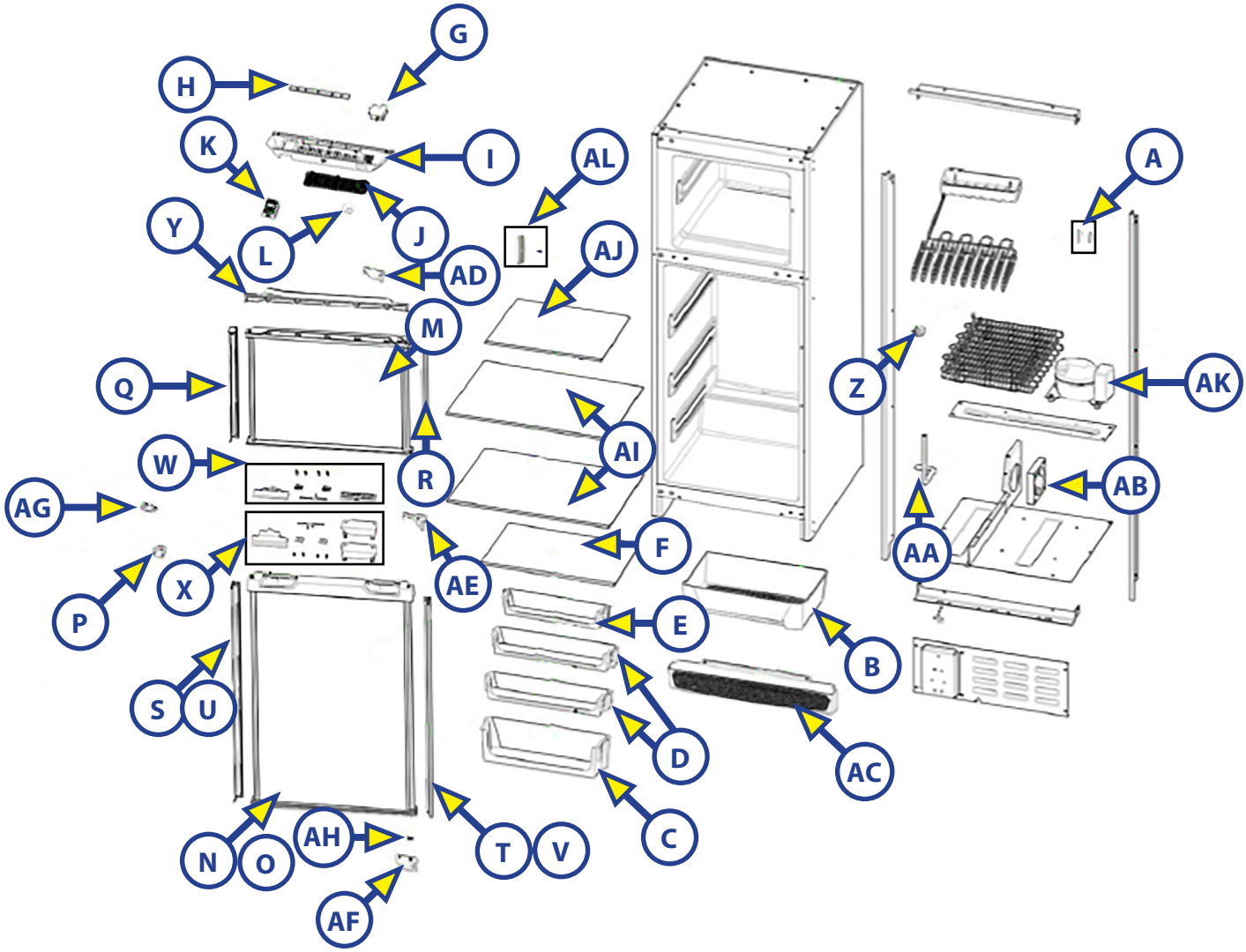
Defrosting

1. Defrosting needs to be carried out when the ice layer reaches a thickness of 5mm / 0.19 in.
2. Turn the refrigerator power off and move your food and beverages to another cool place.
3. Do not use any tools to remove the ice or frost. It must be allowed to melt naturally.
4. Put a towel in the frozen compartment and on the bottom of the fresh compartment to dry any water.
5. The external drip tray in the compressor chamber may need to be emptied if there is too much melting ice.

Cleaning the Lamp

The LED lamp is used by the refrigerator for lighting which features low energy consumption and long service life. In case of any abnormality, please contact the after-sales service.

Replaceable Parts List



Callout	Part #	Description	Model
A	2021149632	ATC Blade Fuse 15A (Slow Blow)	All
B	2021124078	Drawer	All
C	2021124225	Big Door Bin	All
D	2021124221	Small Door Bin	All
E	2021124118	Freezer Door Bin	All
F	2021124113	Glass small shelf	All
G	2021128850	Spark-Free Thermostat (temperature controller)	All
H	2021128864	LED Light PCB (3mins time delay timer+diode as reverse connection protection)	All
I	2021123967	Light Assembly Base	All
J	2021124087	Light Cover	All
K	2021124341	Charcoal Filter	All
L	2021123931	Rotary Knob	All
M	2021124507	Freezer Door Assembly (8 &10 cuft) (New version) (door + left and right side cover + top end cap + door sealing)	All

Callout	Part #	Description	Model
N	2023035368	Fresher Door Assembly (8 cuft) (door + left and right side cover + door sealing)	ECR8DCGTA-PR-RHH ECR8DCGTA-PR-LHH
O	2023035380	Fresher Door Assembly (10 cuft) (door + left and right side cover + door sealing)	ECR10DCGTA-PR-RHH ECR10DCGTA-PR-LHH
P	2021124055	Storage Lock	All
Q	2021128855	Freezer Door Left Side Cover (new version)	All
R	2021128856	Freezer Door Right Side Cover (new version)	All
S	2021124482	Fresher Door Left Side Cover (8 cuft)	ECR8DCGTA-PR-RHH ECR8DCGTA-PR-LHH
T	2021124468	Fresher Door Right Side Cover (8 cuft)	ECR8DCGTA-PR-RHH ECR8DCGTA-PR-LHH
U	2021124496	Fresher Door Left Side Cover (10 cuft) (new version)	ECR10DCGTA-PR-RHH ECR10DCGTA-PR-LHH
V	2021124464	Fresher Door Right Side Cover (10 cuft) (new version)	ECR10DCGTA-PR-RHH ECR10DCGTA-PR-LHH
W	2021124026	Freezer Door Latch Parts Package	All
X	2021123937	Fresher Door Latch Parts Package	All
Y	2021124115	Freezer Door Top End-Cap (new version for thickness 4.5mm door panel)	All
Z	2021123977	Door Switch	All
AA	2021124170	Drainage Tube	All
AB	2021124043	Cooling Fan	All
	202300446	Cooling Fan (Henggang HG12025B12H)	All
	202300447	Cooling Fan (Rainbow DF1202512SEMN)	All
AC	2021124037	Ventilation Cover	All
AD	2021123947	Top Hinge (left open) (new)	All
AE	2021123938	Middle Hinge	All
AF	2021123939	Bottom Hinge (left open) (new)	All
AG	2021124079	Door Catch (new version)	All
AH	2021123953	Spacer	All
AI	2021124176	Fresher Glass Big Shelf	All
AJ	2021123964	Freezer Glass Shelf	All
AK	2021149633	Compressor Control/Driver Board (R600a)	All
AL	2022073811	Shelf Retainer Kit (including shelf retainer, screw cap and pan head Philips drive self tapping screw diameter 4 x 15mm length)	All

Troubleshooting

Trouble Symptom	Possible Reason	Solutions
Not working	Power source connection is OK?	Check power wiring connection.
	Are breakers and fuses broken?	Check lamp working status.
	No electricity or line trip?	Replace fuse.
Abnormal noise	Is refrigerator stable?	Adjusting refrigerator's leveling feet.
	Does refrigerator contact the wall?	Keep proper space between the refrigerator and walls.
Poor refrigerating efficiency	Did you put hot food or too much food?	Put food into the refrigerator after hot food becomes cool.
	Do you open the door frequently?	Open door less often.
	Is the door gasket making a good seal?	Check and close the door to ensure a good seal.
	Is it in direct sunlight or near a heat source?	Removing the refrigerator from the heat source.
	Is it well-ventilated?	Maintain good ventilation space.
	Temperature setting too high?	Set to the appropriate temperature.
Peculiar order in refrigerator	Any spoiled food?	Throw away spoiled food.
	Any dirt inside?	Clean the refrigerator.
	Any strongly flavored food inside?	Pack food properly to minimize odor.
Compressor fault	Does the battery have sufficient power?	Check if the battery power falls below 9V which may lead to the compressor under voltage protection. Charge or replace the battery if necessary.
		Check if the battery power 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 the after-sales personnel for service.

NOTE: If the above descriptions are inapplicable to troubleshooting, do not disassemble and repair it yourself. Repairs carried out by inexperienced persons may cause injury or serious malfunctioning.

This product should be serviced by an authorized service technician and only genuine spare parts should be used.

When the refrigerator is not in use for long periods, disconnect from the power source, empty, clean and keep doors open to prevent unpleasant odors.

Specifications

	8 Cu. Ft. 12 Volt Built-in Refrigerator		10 Cu. Ft.. 12 Volt Built-in Refrigerator	
Capacity (cu. ft.)	8 cu. ft.		10 cu. ft.	
Product Dimensions (W x H x D)	24¼ x 53⅛ x 25¾" (616 x 1350 x 655mm)		24¼ x 60⅛ x 25¾" (616 x 1528 x 655mm)	
Recessed Dimensions (W x H x D)	23¼ x 52⅝ x 23¾" (592 x 1338 x 604mm)		23¼ x 52⅝ x 23¾" (592 x 1338 x 604mm)	
Net Weight (lbs/kg)	ECR08DCGTA-PR-RHH ECR08DCGTA-PR-LHH	118lbs / 53.5kg	ECR10DCGTA-PR-RHH ECR10DCGTA-PR-LHH	130lbs / 59kg
Rated Power Supply Voltage	DC 12V (Min. 9.6V to max. 17V)			
Rated Current	11A @ start-up & maximum cooling setting			
Temperature Range	Refrigerator Compartment: +32°F ~ +50°F (0°C ~ 10°C) Freezer Compartment: -4°F ~ +10.4°F (-20°C ~ -12°C)			
Typical Runtime (Off Grid Usage, powered by 100amp/hr battery)	49 hours @ 77°F (25°C) 31 hours @ 90°F (32.2°C)			

⚠ NOTICE

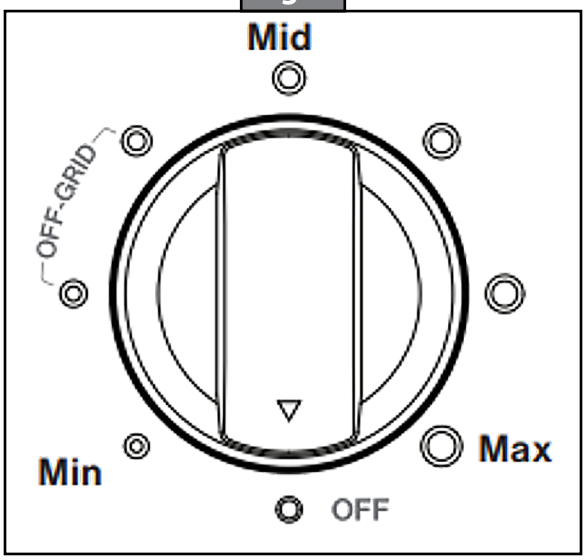
If any of the following Warranty Request Information procedures are beyond the skill-set of the product's owner or installer, contact a certified technician to conduct these procedures before attempting to perform them. Attempting to perform any of the Warranty Request procedures without the proper training or skill-set can result in personal injury, product and/or property damage, including voiding of the limited warranty.

Warranty Request Information

Record initial unit (RV) and refrigerator information onto the ***Refrigerator Checklist for Warranty Request*** form.

1. Make sure the refrigerator is on.
   A. Lights are on.
   B. Dial is in the on position (Fig. 2).

Fig. 2



4. If refrigerator is **NOT** on:
   A. Verify unit is connected to shore power.
   B. Converter breaker is **NOT** tripped. If necessary, reset breaker.
   C. Ensure the battery disconnect switch is on, and charging battery (if applicable).
   D. Check for:
      I. Verify battery terminals are clean and tight.
      II. Verify ground connection to chassis is clean and tight.
5. If the Refrigerator is still not on, check the back of the refrigerator power connection using a DC multimeter for 10.5-16V (12V nominal). If voltage is present but less than 10.5, check step 2 again until adequate voltage. If no voltage is determined, check that the in-line appliance fuse is not blown.
   A. If the amp reading is between 0-0.5 amps and the compressor is **NOT** running, check the fuse.
      I. If the fuse is **NOT** blown, go to **Product Tests 1-5.**
      II. If the fuse is blown, replace the fuse.

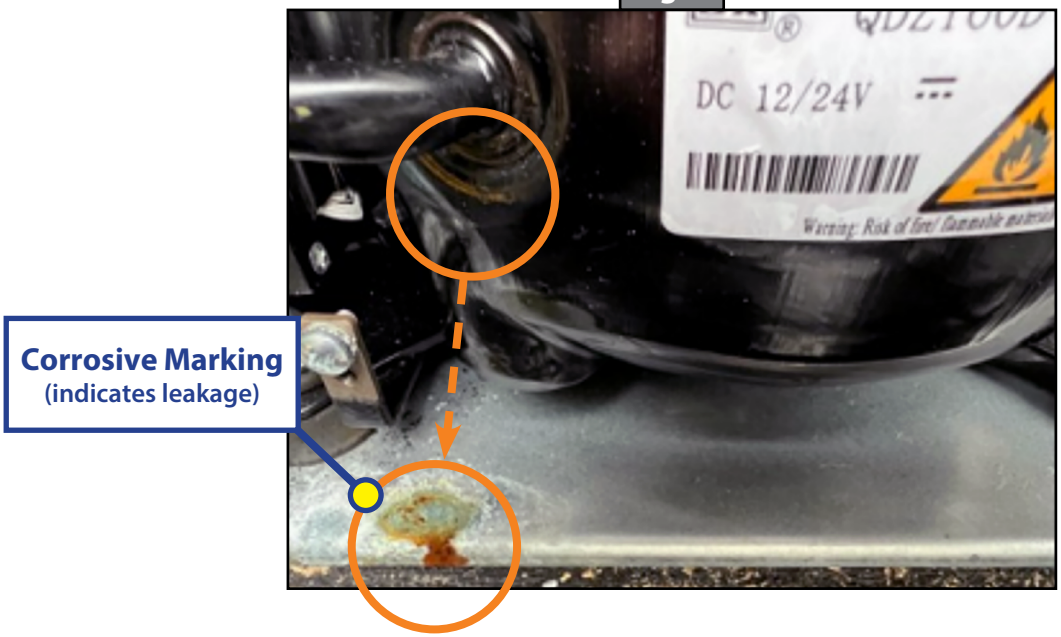
NOTE: Depending on manufacturing date, the fuse may be a ATC blade type fuse or glass cartridge fuse. The fuse may be located from the front behind the vent cover or the rear be removing the compressor access cover.

6. With the unit on, and temperature dial set to 5, wait 5 minutes and use a multimeter to measure amperage:
   I. If 0-0.5 amps go to product Test 1-5 (compressor not running)

I. If the refrigerator and compressor are running after fuse replacement, check amperage. Amperage should now be between 3-12 amps.
II. Run the refrigerator for 24 hours.
III. Measure freezer and refrigerator temperatures.
   a. Freezer temperature reading should be between -10 °F to 15 °F degrees.
   b. Refrigerator temperature reading should be between 32 °F to 43 °F degrees.
   c. If freezer and refrigerator temperatures are **NOT** within acceptable ranges, go to **Product Tests 1-5**.
   d. If freezer and refrigerator temperatures are within acceptable ranges, record temperatures for future reference.

A. If the amp reading is between 0.5-2.5 amps, this indicates low refrigerant coolant.
I. Inspect for oil around fittings (Fig. 3).

Fig. 3



II. Replace the refrigerator.
III. Record coolant findings on the Refrigerator Checklist for Warranty Request form.
   a. Note the coolant leak on the form.
   b. Include photo(s) of the leak along with the form.
   c. Submit form and photo(s) for warranty claim.

B. If the amp reading is between 3-12 amps, this indicates normal operation.
I. Run the refrigerator for 24 hours.
II. Measure freezer and refrigerator temperatures.
   a. Freezer temperature reading should be between -10 °F to 15 °F degrees.
   b. Refrigerator temperature reading should be between 32 °F to 43 °F degrees.
   c. If freezer and refrigerator temperatures are **NOT** within acceptable ranges, go to **step B**.
   d. If freezer and refrigerator temperatures are within acceptable ranges, the product is in normal operation; no issues.

C. If the amp reading is 15 amps or higher, or a fuse keeps blowing/tripping, this indicates a fault/stalled motor.
I. Go to Product Test 3.
II. Record the finding on the Refrigerator Checklist for Warranty Request form.
III. Submit form for warranty claim.

2. If refrigerator is **NOT** on:
   A. Verify unit (RV) is connected to shore power. If necessary, connect to shore power.
   B. Converter breaker is **NOT** tripped. If necessary, reset breaker.
   C. Coach battery is healthy. If necessary, fully charge battery.
3. With the refrigerator on, connect a voltage/amp meter to the refrigerator and record the amp reading.
   A. If the amp reading is between 0-0.5 amps and the compressor is **NOT** running, check the fuse.
      I. If the fuse is **NOT** blown, go to **Product Tests 1-5.**
      II. If the fuse is blown, replace the fuse.

NOTE: If the existing fuse is an in-line 15A cartridge fuse, replace the cartridge fuse with an in-line 15A blade fuse.

      III. If the refrigerator and compressor do **NOT** run after fuse replacement, go to **Product Tests 1-5**.
      IV. If the refrigerator and compressor are running after fuse replacement, check amperage. Amperage should now be between 3-12 amps.
      V. Run the refrigerator for 24 hours.
      VI. Measure freezer and refrigerator temperatures.
         a. Freezer temperature reading should be between -10 °F to 15 °F degrees.
         b. Refrigerator temperature reading should be between 32 °F to 43 °F degrees.
         c. If freezer and refrigerator temperatures are **NOT** within acceptable ranges, go to **Product Tests 1-5**.
         d. If freezer and refrigerator temperatures are within acceptable ranges, record temperatures on the ***Refrigerator Checklist for Warranty Request*** form then submit form for warranty claim.
   B. If the amp reading is between 0.5-2.5 amps, this indicates low refrigerant coolant.
      I. Inspect for oil around fittings (Fig. 3).
      II. Replace the refrigerator.
      III. Record coolant findings on the ***Refrigerator Checklist for Warranty Request*** form.
         a. Note the coolant leak on the form.
         b. Include photo(s) of the leak along with the form.
         c. Submit form and photo(s) for warranty claim.
   C. If the amp reading is between 3-12 amps, this indicates normal operation.
      I. Run the refrigerator for 24 hours.
      II. Measure freezer and refrigerator temperatures.
         a. Freezer temperature reading should be between -10 °F to 15 °F degrees.
         b. Refrigerator temperature reading should be between 32 °F to 43 °F degrees.
         c. If freezer and refrigerator temperatures are **NOT** within acceptable ranges, go to **Product Tests 1-5**.
         d. If freezer and refrigerator temperatures are within acceptable ranges, the product is in normal operation; no issues.
   D. If the amp reading is 15 amps or higher, this indicates a fault/stalled motor.

I. Replace the refrigerator.
II. Record the finding on the ***Refrigerator Checklist for Warranty Request*** form.

⚠WARNING

Working on an electrical appliance connected to a power supply can result in serious personal injury, product and/or property damage, including voiding of the product's limited warranty. Disconnect power to the unit (RV) and electrical appliance.

III. Submit form for warranty claim.

Product Test 1

Thermostat Evaluation:

1. Turn the refrigerator's temperature control dial to the OFF position, then back to ON.
   A. If resetting the thermostat does **NOT** resolve the issue, go to **Product Test 2**.
   B. If the refrigerator and compressor are running after thermostat reset:
      I. Connect a voltage/amp meter to the refrigerator and record the amp reading.
      II. If the amp reading is between 3-12 amps, replace the thermostat—Part Number 2021128850.
2. After replacing the thermostat, run the following repair validation steps:
   A. Run the refrigerator for 24 hours.
   B. Measure freezer and refrigerator temperatures.
      I. Freezer temperature reading should be between -10 °F to 15 °F degrees.
      II. Refrigerator temperature reading should be between 32 °F to 43 °F degrees.
      III. If freezer and refrigerator temperatures are **NOT** within acceptable ranges;
         a. Replace the refrigerator.
         b. Record temperature findings on the ***Refrigerator Checklist for Warranty Request*** form.
      IV. If freezer and refrigerator temperatures are within acceptable ranges, record temperature findings on the ***Refrigerator Checklist for Warranty Request*** form.
3. Submit ***Refrigerator Checklist for Warranty Request*** form for warranty claim.

⚠WARNING

Working on an electrical appliance connected to a power supply can result in serious personal injury, product and/or property damage, including voiding of the product's limited warranty. Disconnect power to the unit (RV) and electrical appliance.

Product Test 2

Hard Reset:

A. Remove the unit (RV) from shore power.
B. Disconnect the battery's negative terminal and solar system in the unit (RV).
   I. Wait 5-10 minutes.
   II. Restore power.

NOTE: Using a Battery Disconnect in place of disconnecting the battery's negative terminal is not sufficient for disconnecting the battery, because the refrigerator may be directly connected to the battery.

C. If the "hard reset" does **NOT** resolve the issue, go to **Product Test 3**.
D. If the refrigerator and compressor are running after the "hard reset":
   I. Connect a voltage/amp meter to the refrigerator and record the amp reading.
   II. If the amp reading is between 3-12 amps, run the following repair validation steps:
      a. Run the refrigerator for 24 hours.
      b. Measure freezer and refrigerator temperatures.
         i. Freezer temperature reading should be between -10 °F to 15 °F degrees.

ii. Refrigerator temperature reading should be between 32 °F to 43 °F degrees.

c. If freezer and refrigerator temperatures are **NOT** within acceptable ranges, go to **Product Test 3.**

d. If freezer and refrigerator temperatures are within acceptable ranges, issue a Technical Bulletin for public viewing/download that covers a Hard Reset procedure and proper refrigeration storage.

Product Test 3

Short to Ground:

⚠WARNING

Working on an electrical appliance connected to a power supply can result in serious personal injury, product and/or property damage, including voiding of the product's limited warranty. Disconnect power to the unit (RV) and electrical appliance.

1. Disconnect power to the unit (RV).
2. Disconnect the 3-wire pigtail coming off the refrigerator.
3. Check for continuity between the hot (power) wire and the refrigerator's frame.
    a. If continuity is **NOT** found, go to **Product Test 4.**
    b. If continuity is detected, remove back cover and check for pinched wires shorting the refrigerator to ground.
    c. Record findings and replace the refrigerator.
4. Record findings on the Refrigerator Checklist for Warranty Request form and include a photograph of the pinched wire.
5. Submit form for warranty claim.

Product Test 4

Wiring Connections:

1. Disconnect power to the unit (RV).
2. Disconnect power to the refrigerator.
3. Look for loose or disconnected terminals on compressor control module or between control module and compressor.
    A. If wiring connections are **NOT** loose or disconnected, go to **Product Test 5.**
    B. If wiring connections are loose or disconnected, repair connections.
    C. Reconnect power to the unit (RV).

⚠WARNING

Working on an electrical appliance connected to a power supply can result in serious personal injury, product and/or property damage, including voiding of the product's limited warranty. Disconnect power to the unit (RV) and electrical appliance.

D. Reconnect power to the refrigerator.

E. If the refrigerator does **NOT** start up after repairs, go to **Product Test 5**.

F. If the refrigerator starts up and begins to cool after repairs, run the following repair validation steps:

I. Run the refrigerator for 24 hours.

II. Measure freezer and refrigerator temperatures.

a. Freezer temperature reading should be between -10 °F to 15 °F degrees.

b. Refrigerator temperature reading should be between 32 °F to 43 °F degrees.

III. If freezer and refrigerator temperatures are **NOT** within acceptable ranges:

a. Replace refrigerator.

b. Record findings on the Refrigerator Checklist for Warranty Request form.

c. Submit Refrigerator Checklist for Warranty Request form for warranty claim.

IV. If freezer and refrigerator temperatures are within acceptable ranges, record findings for future reference.

Product Test 5

Bench Test:

1. Connect the refrigerator to an alternate power source—**NOT** the RV.
2. If the refrigerator starts up and begins to cool normally, the issue is with RV power.

NOTE: Checking for, and finding, RV wiring is a diagnostic test **NOT** covered by Lippert Warranty.

3. If the refrigerator does **NOT** start up, replace the compressor control module.
   A. Part Number 2021149633 for R600A refrigerant models
   B. Part Number 2021124093 for R134A refrigerant models.
4. If the refrigerator does **NOT** start up after replacing the compressor control module:
   A. Replace the refrigerator.
   B. Record findings on the Refrigerator Checklist for Warranty Request form.
5. If the refrigerator does start up after replacing the compressor control module, run the following repair validation steps:
   C. Run the refrigerator for 24 hours.
   D. Measure freezer and refrigerator temperatures.
      I. Freezer temperature reading should be between -10 °F to 15 °F degrees.
      II. Refrigerator temperature reading should be between 32 °F to 43 °F degrees.
   E. If freezer and refrigerator temperatures are **NOT** within acceptable ranges:
      I. Replace the refrigerator.
      II. Record findings on the Refrigerator Checklist for Warranty Request form.
      III. Submit Refrigerator Checklist for Warranty Request form for warranty claim.
   F. If freezer and refrigerator temperatures are within acceptable ranges, record findings for future reference.

Troubleshooting Procedures

Subject:

Instructions for replacing existing inline 15A cartridge fuse with inline 15A blade fuse.

Models Covered:

FCR10DCDTA, FCR10DCGTA, FCR08DCGTA

Service Instruction Steps:

Below instructions to Replace fuse holder adds 10 minutes to current service rate for fuse cartridge replacement.

1. De-energize the refrigerator, remove from cabinet, and remove the back cover to expose the fuse wiring in the compressor area.
2. Locate wiring bundle (Fig. 1A), and gently remove the wiring retaining band (Fig. 1B), then remove the first two wire terminals 'WHITE' (Fig. 2A) & 'RED' (Fig. 2B) from the compressor control module (Fig. 2C).

NOTE: Gently remove with needle nose pliers if they can't be removed by hand, careful not damage the blade terminal or insulation.

Fig. 1

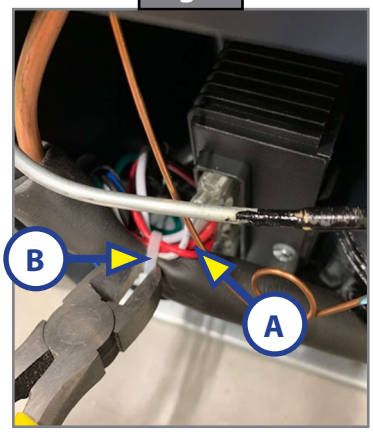
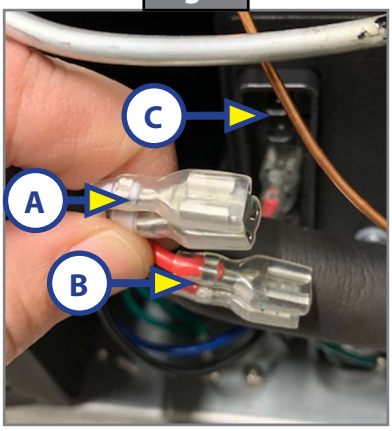


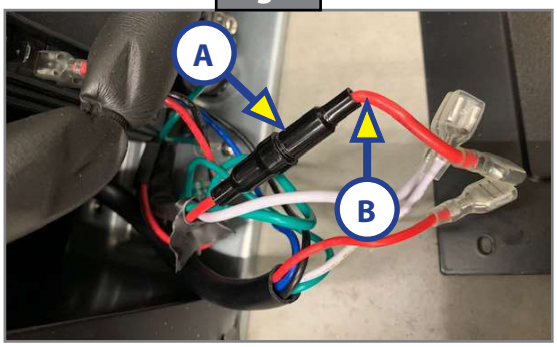
Fig. 2



3. Unwrap the wire bundle (Fig. 3) and pull out to extend the length (Fig. 4). Cut the protective sheathing (Fig. 4A) back to be easily expose a good length of wire on the 'RED' cartridge fuse line (Fig. 4B). The cartridge fuse and wire should now be easily accessible to work with.

Fig. 3

Fig. 4



4. Cut the cartridge fuse out of the line (Fig. 5A), cut as close to the cartridge fuse holder (Fig. 6A) as possible to maintain good wire length to splice into.

Fig. 5

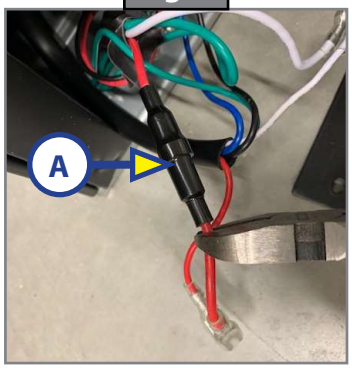
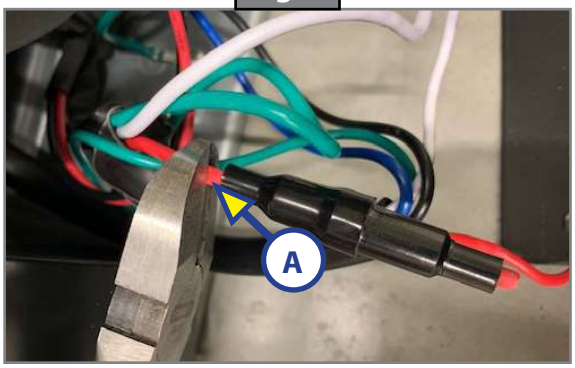


Fig. 6



5. Cut back about 1/4" to expose bare wire on both previously cut wires (Fig. 7A). Twist the stranded wire tight together (Fig. 8) to prevent fraying.

Fig. 7

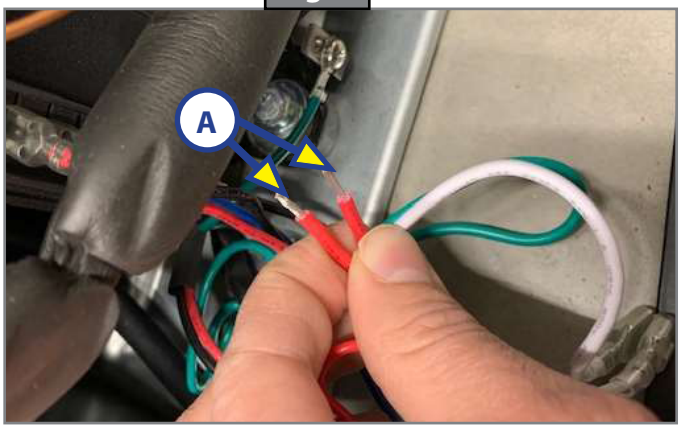
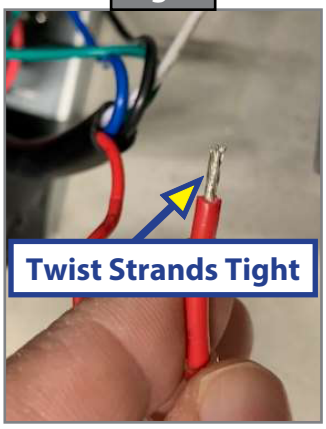


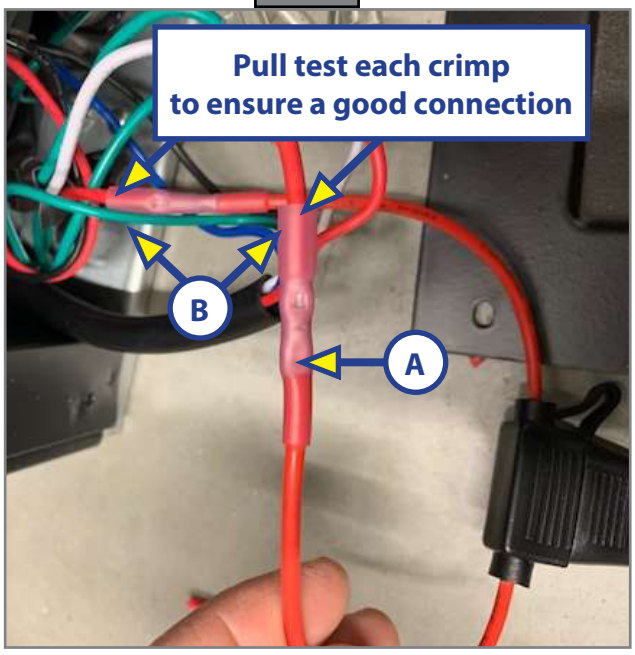
Fig. 8



6. The provided replacement blade fuse holder has butt splice connectors crimped on either end (Fig. 9A). Crimp the free ends from the fuse holder (Fig. 9B) to each wire end from step 5. It does not matter which end is crimped to the wires.

Important!! - pull test each connector to ensure a good crimp.

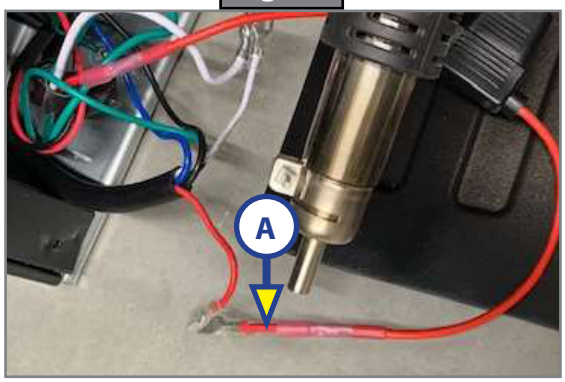
Fig. 9



7. The butt splice connector has an integrated heat shrink sheathing (Fig. 10A), heat this appropriately to shrink tight to the wire.

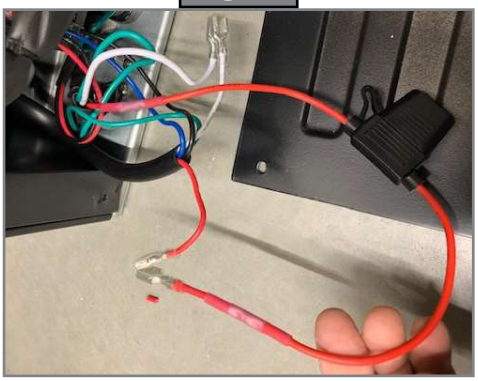
Careful of surrounding wires, and do not overheat!!

Fig. 10



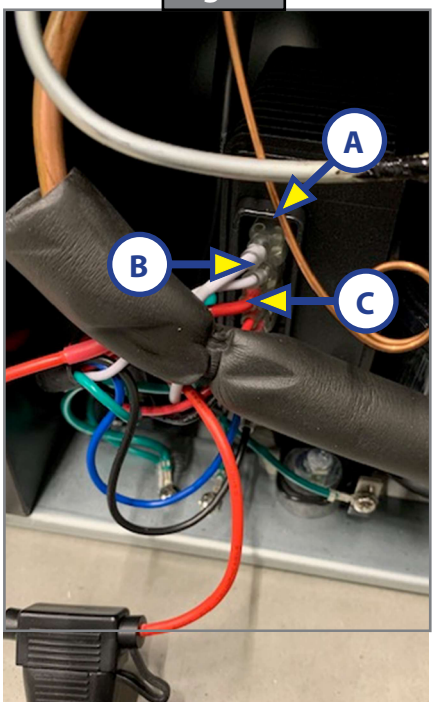
8. Inspect finished wiring (Fig. 11).

Fig.11



9. Re-install the 'RED' and 'WHITE' blade terminals to the compressor control module (Fig. 12A). 'WHITE' goes to the top blade (Fig. 12B), 'RED' to the second blade (Fig. 12C). Make certain the terminal does not feel loose on the blade. Squeeze terminal tips gently if needed for a snugger fit to the blade.

Fig. 12



10. Restrain the wire bundle with the provided Zip-Tie (Fig. 13A). Stuff the blade fuse holder in the empty cavity area (Fig. 14A).

Fig. 13

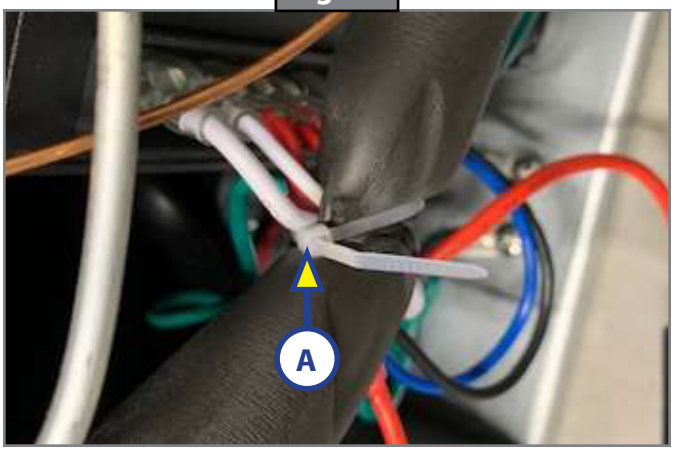
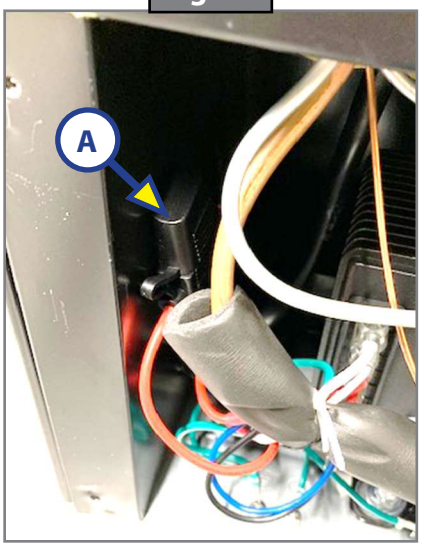


Fig. 14



11. Re-install back cover and re-energize refrigerator to check that compressor and interior light work, confirm there are no other issues. Re-install refrigerator into cabinet once everything checks out.

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