



TECHNICAL MANUAL

**JennAir® and KitchenAid® 8.8 cu ft
Bottom Mount Built-In Refrigerators**



W11667933 Rev A

FOREWORD

This Technical Manual (Part No. W11667933 Rev A), provides the In-Home Service Professional with service information for the “JennAir® and KitchenAid® 8.8 cu ft Bottom Mount Built-In Refrigerators.”

The Wiring Diagram used in this Technical Manual is typical and should be used for training purposes only. Always use the Wiring Diagram supplied with the product when servicing the refrigerator.

For specific operating and installation information on the model being serviced, refer to the “Use and Care Guide” or “Installation Instructions” provided with the refrigerator.

GOALS AND OBJECTIVES

The goal of this Technical Manual is to provide information that will enable the In-Home Service Professional to properly diagnose malfunctions and repair the “JennAir® and KitchenAid® 8.8 cu ft Bottom Mount Built-In Refrigerators.”

The objectives of this Technical Manual are to:

- Understand and follow proper safety precautions.
- Successfully troubleshoot and diagnose malfunctions.
- Successfully perform necessary repairs.

WHIRLPOOL CORPORATION assumes no responsibility for any repairs made on our products by anyone other than authorized In-Home Service Professionals.

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Section 1:

General Information

This section provides general safety, parts, and information for the “JennAir® and KitchenAid® 8.8 cu ft Bottom Mount Built-In Refrigerators.”

- Safety
- Product Specifications
- Product Features
 - Operating Instructions
- Model Number Nomenclature
- Model Number and Serial Number Label Location
- Tech Sheet Location

Safety

Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word “DANGER” or “WARNING.”

These words mean:

⚠ DANGER

You can be killed or seriously injured if you don't immediately follow instructions.

⚠ WARNING

You can be killed or seriously injured if you don't follow instructions.

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: To reduce the risk of fire, electric shock, or injury to persons when using your appliance, follow basic precautions, including the following:

- Children should be supervised to ensure that they do not play with the appliance.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Do not use an extension cord.
- If power supply cord is damaged, it must be replaced by the manufacturer, its service agent, or a similarly qualified person in order to avoid a hazard.
- Connect to potable water supply only.
- This appliance is intended to be used in household and similar applications such as: staff kitchen areas in shops, offices, and other working environments; farm houses and by clients in hotels, motels, and other residential-type environments; bed and breakfast-type environments; and catering and similar non-retail applications.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- Do not use replacement parts that have not been recommended by the manufacturer (e.g., parts made at home using a 3D printer).
- 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.
- Ice maker kit can be added to some models. See serial tag inside the food compartment of appliance for ice maker kit model information.
- A qualified service technician must install the water line and ice maker. See installation instructions supplied with ice maker kit for complete details.

SAVE THESE INSTRUCTIONS

Product Specifications

JennAir® and KitchenAid® 8.8 cu ft Bottom Mount Built-In Refrigerators

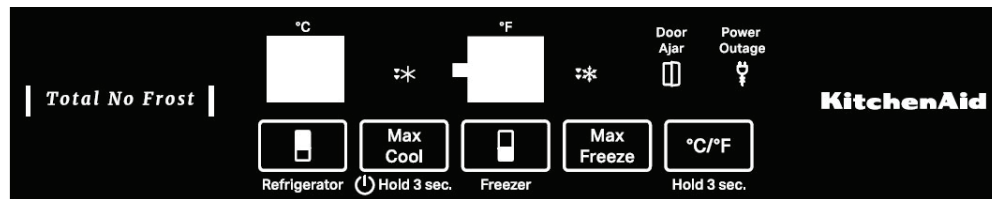
AHAM Volumes and Shelf Area	
Freezer Volume (cu ft)	2.39
Refrigerator Volume (cu ft)	6.45
Total Volume (cu ft)	8.8
Dimensions	
Cabinet Width (IN, inches)	21 ¹⁵ / ₁₆
Cutout Height (IN, inches)	69 ¹⁵ / ₁₆
Cutout Width (IN, inches)	22 ¹ / ₁₆
Depth Closed Excluding Handles (IN, inches)	21 ⁷ / ₁₆
Height to Top of Cabinet (IN, inches)	69 ¹¹ / ₁₆
Carton Depth (IN, inches)	23 ¹⁵ / ₁₆
Carton Height (IN, inches)	72 ⁷ / ₁₆
Carton Width (IN, inches)	23 ¹ / ₂
Description	
Type of Refrigerator	Built-In Bottom Mount
Details	
Cooling Type	Single Evaporator
Counter Depth	Yes
Exterior	
Base Grille Color	White
Cabinet Color	White
Cabinet Finish	Smooth
Door Color	Panel Ready
Door Finish	Smooth
Door Style	Flat
Hidden Hinge	Yes
Number of Doors	2
Reversible Door	Yes
Controls	
Automatic Defrost	Yes
Control Location	Interior Up Front
Control Lockout	Yes
Control Type	Electronic Touch
Door Ajar/Open Alarm	Yes
Max Cool/Fast Cool	Yes

GENERAL INFORMATION (CONT.)

Refrigerator Compartment	
Number of Interior Shelves	3
Conventional Shelves	1 Flip Glass 1 Fixed Full-Width Glass
Shelf Supports	Molded
Humidity-Controlled Crispers	1 Full-Width
Temperature-Controlled Drawers	1 Full Width
Door Bins	1 Dairy 1 Fixed Full-Width 3 Fixed Partial-Width
Liner Finish	White Glossy
Refrigerator Lighting	LED
Freezer Compartment	
Freezer Compartment Type	Standard
Freezer Door Type	Swing
Freezer Number of Shelves	1
Freezer Shelves	1 Fixed Full Width Plastic
Freezer Drawer/Basket	1 Full Width Lower Plastic 1 Full Width Upper Plastic
Freezer Lighting	LED
Dispenser	
Dispenser Type	No Dispenser
Certifications	
Energy Rating (kWh/year)	393
Energy Star® Qualified	ENERGY STAR® Qualified
UL	Yes
Electrical	
Amps	16
Volts	110/120

Product Features

Operating Instructions



IMPORTANT: Before operating this appliance, make sure it has been properly installed according to the appliance's Owner's Manual.

For your convenience, your refrigerator and freezer temperature controls are set to the recommended set points at the factory. When you first install your refrigerator, make sure the temperature controls are still set to the recommended set points. The recommended set points are 37°F (3°C) for the refrigerator and 0°F (-18°C) for the freezer.

The touch activated controls are located above the external dispenser and on the side of the left inner refrigerator door.

IMPORTANT:

- The recommended settings should be correct for normal household refrigerator use. The controls are set correctly when milk or juice is as cold as you like and when ice cream is firm.
NOTE: Areas such as a garage, basement, or porch may have higher humidity or extreme temperatures. You may need to adjust the temperature away from the recommended settings to accommodate for these conditions.
- Wait 24 hours for your refrigerator to cool completely before adding food. If you add food before the refrigerator has cooled completely, your food may spoil.
NOTE: Adjusting the refrigerator and freezer controls to a colder than recommended setting will not cool the compartments any faster.
- If the temperature is too warm or too cold in the refrigerator or freezer, first check the air vents to be sure they are not blocked before adjusting the controls.
- Wait at least 24 hours between adjustments. Recheck the temperatures before other adjustments are made.

NOTE: Some models do not have the 2nd Ice Off control.

TOTAL NO FROST SYSTEM

The Total No Frost system effectively prevents ice formation, avoiding the hassle of manual defrosting both in freezer and fridge cavity. Its ventilation system provides perfect circulation of cold air in both cavities thus avoiding ice builds up.

ON/STAND-BY

Press the button  for 3 seconds to turn the appliance in stand-by. In Stand-by mode the light in the refrigerator compartment does not turn on. Press the button again briefly to reactivate the appliance.

TEMPERATURE DISPLAY

The display shows the refrigerator compartment temperature between 35.6°F and 46.4°F (2°C and 8°C) and the temperature of the freezer compartment between 3.2°F and -11.2°F (-16°C and -24°C).

To avoid food waste, please refer to the recommended setting and storage times found in the online user manual.

REFRIGERATOR COMPARTMENT TEMPERATURE

It is possible to set a different temperature with the button . Recommended setting: 39.2°F (+4°C).

MAX COOL

Press the button  for 3 seconds to quickly cool the refrigerator compartment. When the function is turned on the icon  lights up.

The function automatically turns off after 6 hours, or manually by pressing the button  again for 3 seconds.

TURNING OFF THE SOUND ALARM

To turn off the sound alarm, briefly press the  button.

FREEZER COMPARTMENT TEMPERATURE

It is possible to set a different temperature with the  button. Recommended setting: -0.4°F (-18°C).

FAST FREEZE

In order to preserve at best, please use the Fast Freeze function before putting a large quantity of food in the freezer cavity.

Press the  button until the icon  is on in order to set the function. The function turns off automatically after 26 hours, or manually by selecting different freezer temperature.

NOTE: Avoid a direct contact between the fresh food and the food that is already frozen. To optimize the freezing speed, drawers can be removed and the food can be placed directly on the bottom of the compartment.

MODE BUTTON

Allows to select among 2 or more available options.

Pressure 1: The 1st option is shown (Party mode); Mode Button Lights Up

Pressure 2: The 2nd option shown (Vacation mode); Mode Button Lights Up

Pressure 3: Options Off (if any option has been selected); Mode Button Light Off

Party Mode  : Use this function to chill drinks inside the freezer compartment.

IMPORTANT: Do not leave the bottle inside the freezer compartment longer than the function is active (30 minutes). An acoustic signal will advise the end of the function.

Press the Alarm  button or the Mode  button to turn off the alarm.

Vacation Mode  : You can use this function in the event of a prolonged absence from home. The display will show the temperature of the refrigerator compartment 53.6°F (+12°C) and the Vacation mode icon will light up. After activating this function, remove the food from the refrigerator compartment and keep both doors closed - the refrigerator will maintain a suitable temperature to prevent odors from forming. The freezer, however, remains at the temperature originally set.

GENERAL INFORMATION (CONT.)

A deep clean (of both refrigeration and freezer compartment) is recommended before activating this function in order to prevent the spread of bacteria.

Refrigeration Compartment

The refrigerator compartment allows for the storage of fresh food and drink. The refrigerator compartment defrosts automatically. The occasional presence of drops of water on the internal back wall of the compartment is a sign of the automatic defrosting phase. The defrosting water is channelled into a drain and then collected in a container, where it evaporates.

NOTE: The ambient temperature, how often the doors are opened and the position of the appliance may affect the internal temperatures in the two compartments. Set the temperatures according to these factors. In very humid conditions, condensation may form in the refrigerator compartment, especially on the glass shelves. In this case, it is recommended that you close containers with liquids in (e.g. a pot of stock), wrap up food with a high water content (e.g. vegetables) and turn on the fan, if there is one. All of the drawers, door shelves and shelves can be removed.

Multiflow Air Distribution

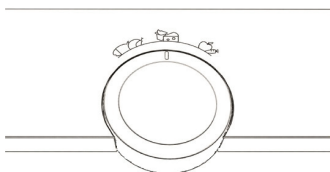
The multiflow helps to distribute equally the cold air in the cavity for a better food preservation. Food can be placed on any shelf of the appliance.

NOTE: Prevent blockages of the air distribution vents which ensures its free movement.

Multitemperature Zone (On Some Models)

There are 3 temperature selection positions to preserve the meat/fish, dairy food and fruit/veggies, offering extra storage space for your fresh greens.

- **Left position:**
meat and fish
- **Mid position:**
dairy food
(cheese and yogurt)
- **Right position:**
fruits and vegetables

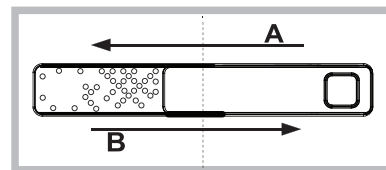


For the correct functioning of the multitemperature zone drawer, it is necessary that:

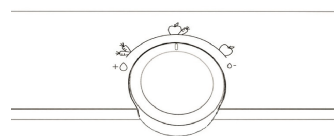
- The appliance is turned on
- One of the following special functions is not selected: Standby, Cooling-Off, Vacation (in this case, remove the food contained in it).

Humidity control (On Some Models)

Open the humidity regulator (position B) if you want to store food, like fruit, in a less humid environment or close it (position A) to store food, like vegetables, in a more humid environment



Turn the knob to the left for storing vegetables (for which a more humid environment is recommended), rotate the knob to the right for storing fruit (for which a less humid environment is recommended) and turn the knob to the middle for storing a mixture of fruit and vegetables.



NOTE: Avoid storing unwrapped food in direct contact with internal surfaces of the refrigerator or freezer compartments.

Model Number Nomenclature

JennAir® Model Number Nomenclature

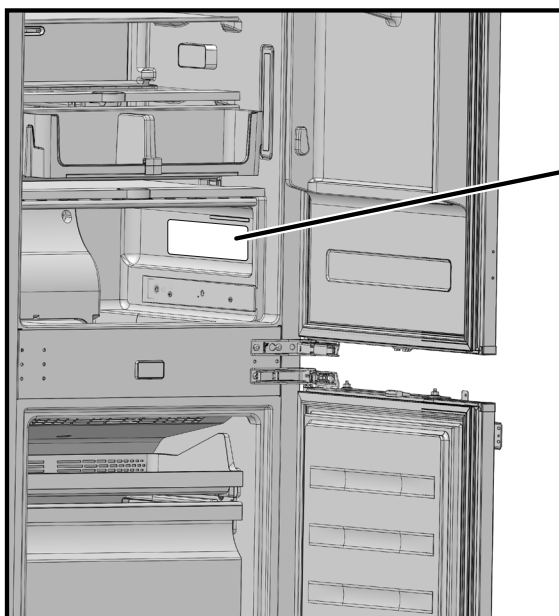
MODEL NUMBER INTERNATIONAL SALES OR MARKETING CHANNEL	J	B	B	F	X	22	N	M	X
Brand J = JennAir®									
Category B = Built-In Refrigeration									
Configuration B = Bottom Mount (2 door)									
Installation F = Flush Install (84" tall)									
Product Detail X = Reversible Door									
Size (Width) 22 = 22 inches									
Feature Pack N = Non Dispense									
Production Year M = 2022									
Color SKU X = Custom Overlay									

Model Number Nomenclature

KitchenAid® Model Number Nomenclature

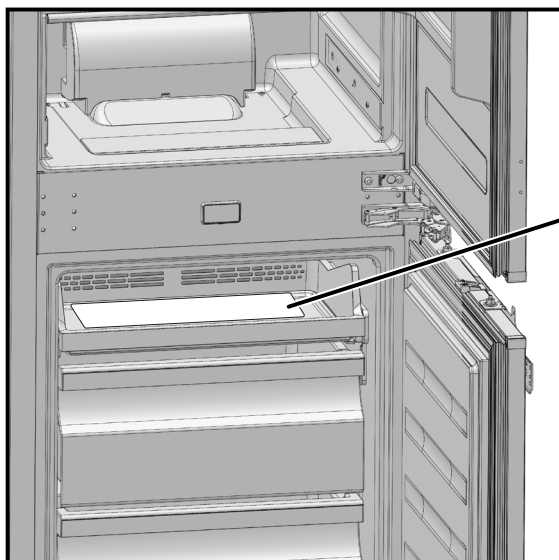
MODEL NUMBER INTERNATIONAL SALES OR MARKETING CHANNEL	K	B	B	X	10	2	M	PA
Brand K = KitchenAid®								
Category B = Built-In Refrigeration								
Configuration B = Bottom-Freezer (2 Door)								
Product Detail X = Reversible Door								
Feature Pack 10 = Non Dispense								
Width 2 = 42 inches								
Production Year M = 2022								
Color PA = Panel-Ready								

Model Number and Serial Number Label Location



*Model Number and
Serial Number Label Location*

Tech Sheet Location



Tech Sheet Location

Notes

Section 4: Component Access

This section provides service parts access, removal, and replacement instructions for the “JennAir® and KitchenAid® 8.8 cu ft Bottom Mount Built-In Refrigerators.”

■ Refrigerator Compartment (RC)

- Electronic User Interface
- Top LED
- Side LEDs
- RC Thermistor
- Cold Air Return Cover
- Air Tower
- Air Damper

■ Freezer Compartment (FC)

- Freezer Door Reed Switch
- LED Assembly
- FC and Evaporator Thermistors
- Evaporator and Evaporator Fan

■ Machine Compartment

- ACU

Refrigerator Compartment (RC)

Electronic User Interface

⚠ WARNING



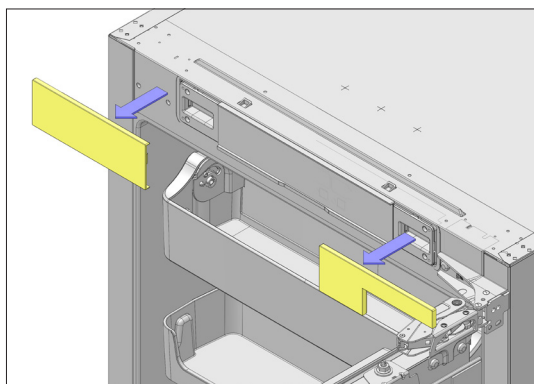
Electrical Shock Hazard

Disconnect power before servicing.

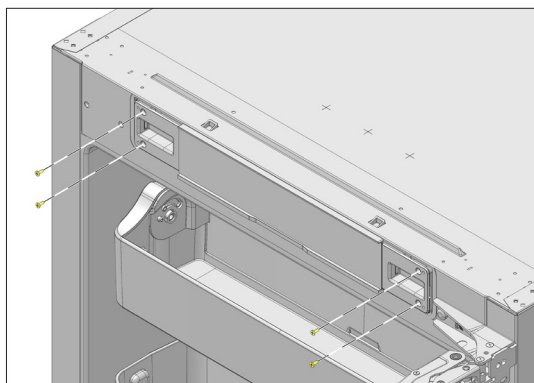
Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

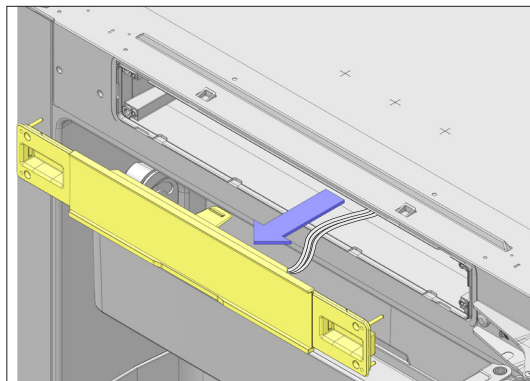
1. Disconnect power to the refrigerator.
2. Open the refrigerator door to access the user interface.
3. Locate the plastic covers on each side of the user interface.
4. Pull each cover straight out to remove.



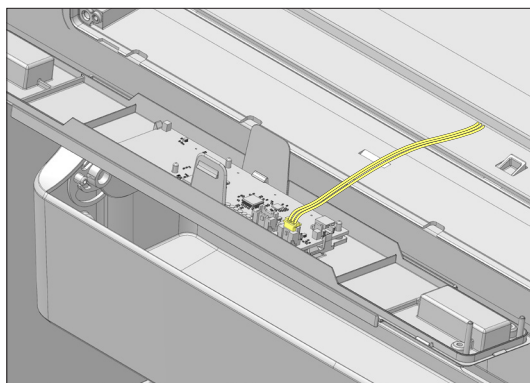
5. Remove four (4) Phillips head screws.



6. Remove the user interface.



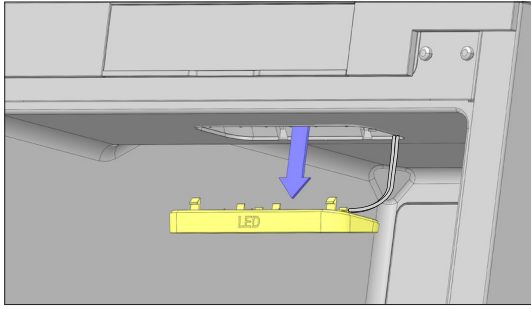
7. Release the wire connector to finish the removal of the user interface.



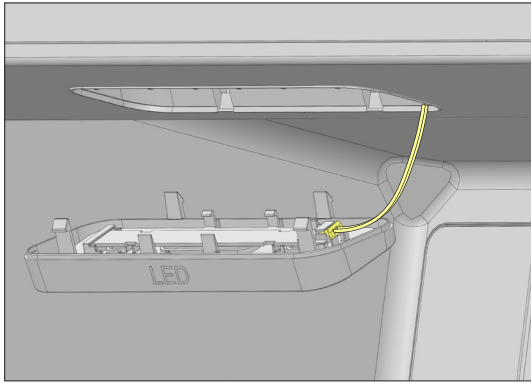
NOTE: Follow steps in reverse order to re-install the user interface.

Top LED

1. Locate the LED at the top of the refrigerator compartment.
2. Grasp the LED housing and pull down to remove.



3. Unplug the connector from the LED light assembly.

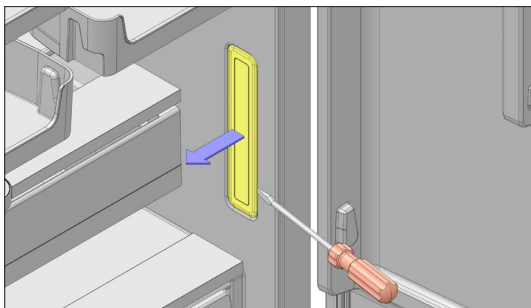


NOTE: To replace, connect wire connector and snap LED assembly in place.

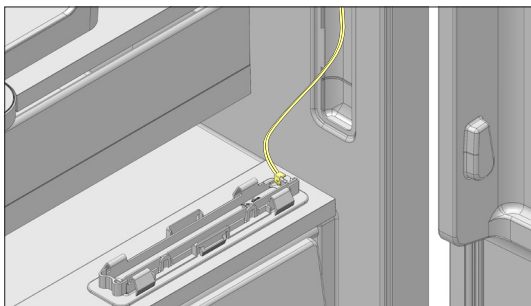
Side LEDs

NOTE: To remove the LED lighting along the sides of the refrigerator compartment, protect the cabinet.

1. Use a panel removal tool or a thin flat blade screwdriver to push in on the retaining tabs to remove the side LEDs.



2. Unplug the connector from the LED light assembly.

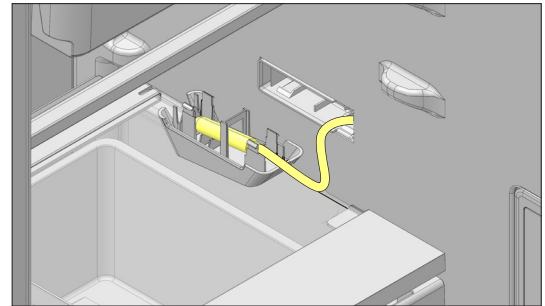
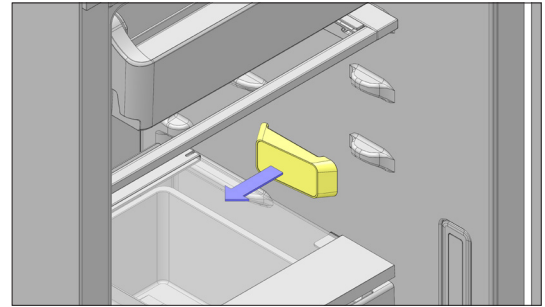


NOTE: To replace, connect wire connector and snap LED assembly in place.

RC Thermistor

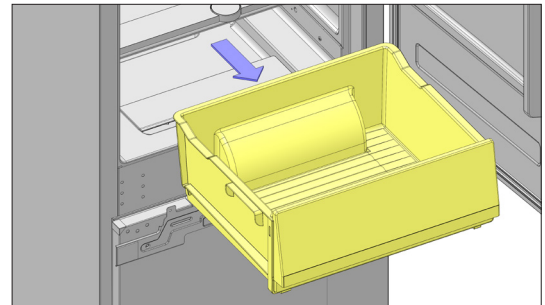
The RC Thermistor is located on the right side wall of the RC compartment.

1. Pull the thermistor housing out from back to front.

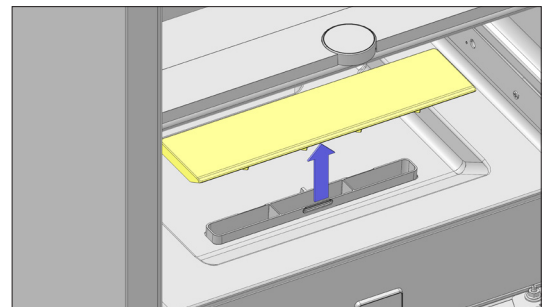


Cold Air Return Cover

1. Remove the bottom drawer to locate the cold air return cover.



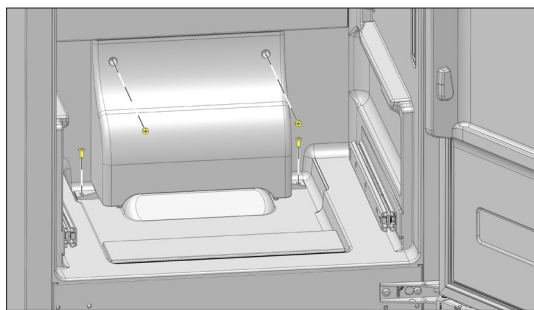
2. Pull up cold air return cover to remove.



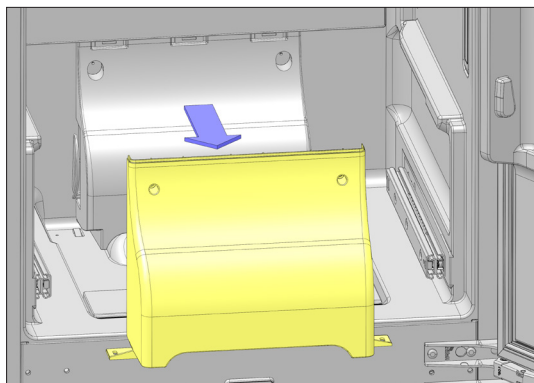
NOTE: To replace, snap back in place.

Air Tower

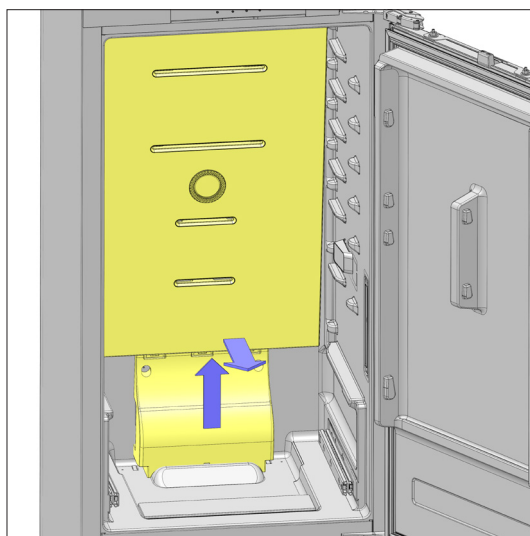
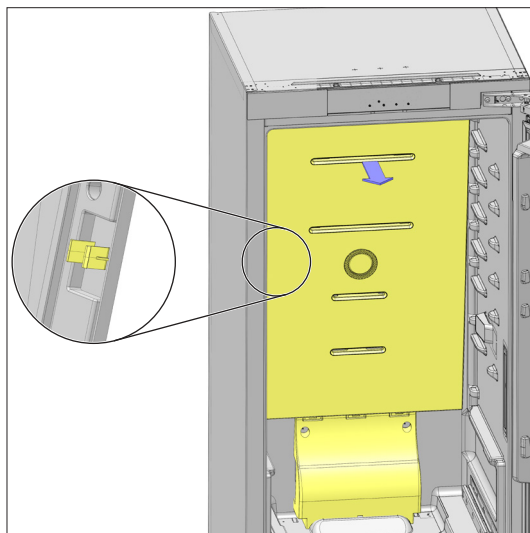
1. Remove all drawers and shelving from the RC compartment.
2. Locate the base cover at the bottom of the tower and remove four (4) Phillips head screws.



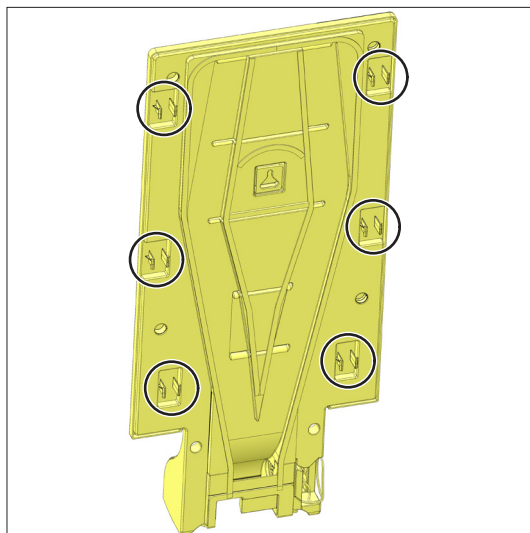
3. Remove the base cover.



4. Pull the air tower out to release snaps starting at the top and working down, then lift up to remove.

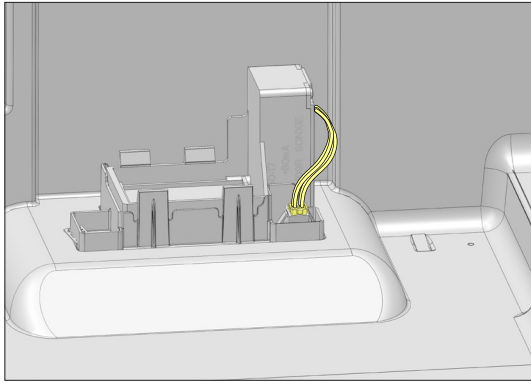


NOTE: To replace, line up air tower and push the six (6) snaps into place. Then replace cover and four (4) Phillips head screws.

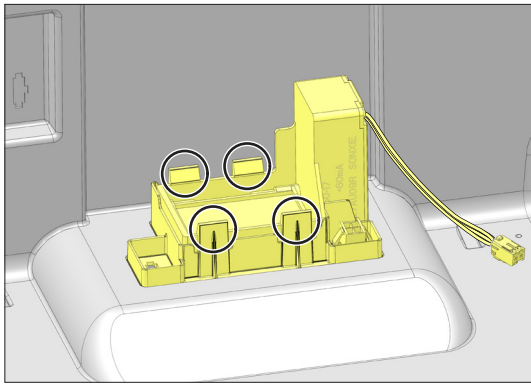


Air Damper

1. Complete the steps [1-4](#) from Air Tower.
2. Unplug the wire connector.



3. Use hand or small screwdriver to remove damper from retaining tabs in the front and back.



NOTE: To reinstall, snap in the air damper and reconnect the wire.

Freezer Compartment (FC)

⚠ WARNING



Electrical Shock Hazard

Disconnect power before servicing.

Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

⚠ WARNING



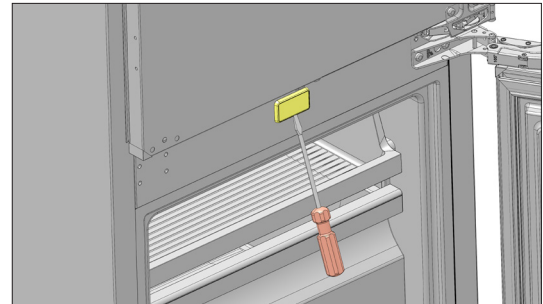
Explosion Hazard

Risk of fire or explosion. Flammable refrigerant used.
Do not use mechanical devices to defrost refrigerator.

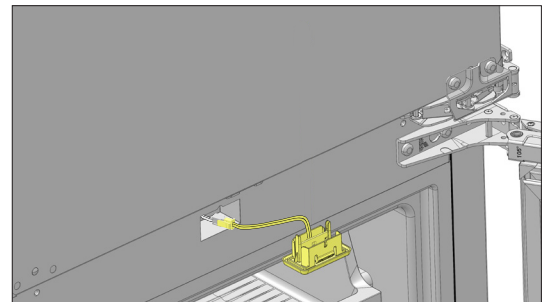
Do not puncture refrigerant tubing.

Freezer Door Reed Switch

1. Open the freezer door, reed switch is located just above the freezer compartment.
2. Protect the surface and use a small screwdriver or a panel removal tool to remove reed switch cover.



3. Disconnect the wire to remove.

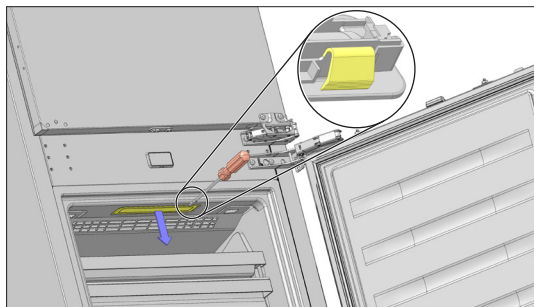


NOTE: To reinstall, connect the wire and snap back into place.

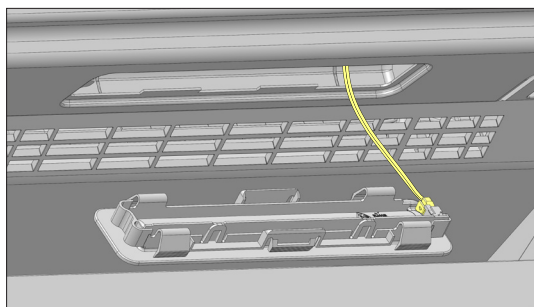
LED Assembly

LED assembly is located at the top of the freezer compartment.

1. Use a panel removal tool or thin flat blade screwdriver to push in on the retaining tabs.

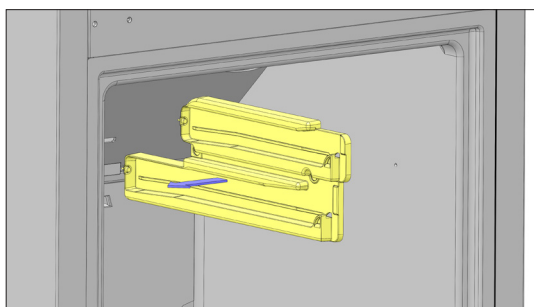
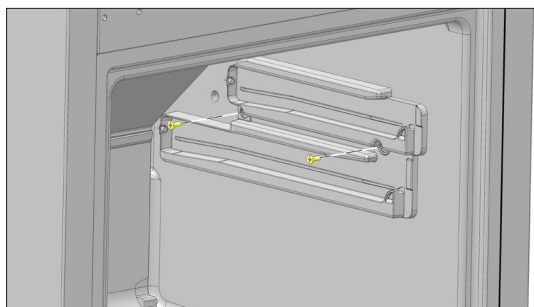


2. Unplug the connector from the LED light assembly.

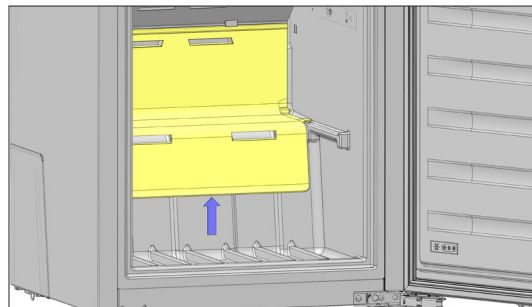


FC and Evaporator Thermistors

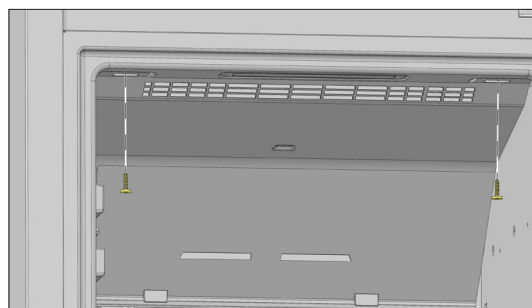
1. Remove all shelving and drawers from the freezer compartment.
2. Remove two (2) Phillips head screws from each side to remove the upper drawer rails.



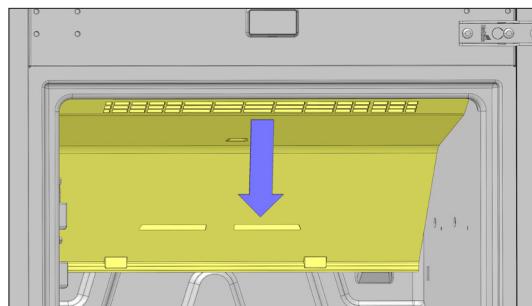
3. Lift up the rear cover from the bottom, then remove it.



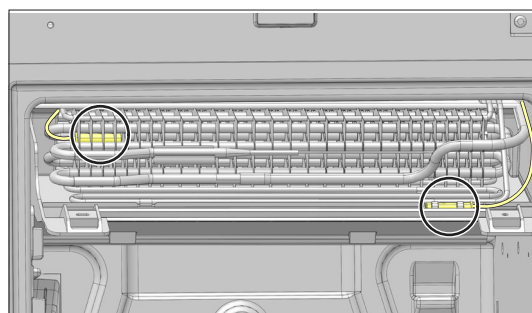
4. Remove two (2) Phillips head screws from the evaporator cover.



5. Pull down the evaporator cover to access the evaporator thermistor.



6. Access to both the FC and evaporator thermistors as shown.



Evaporator and Evaporator Fan

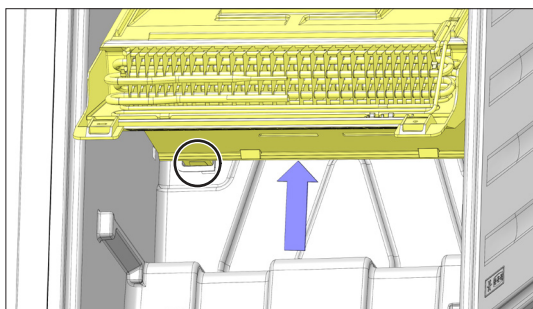
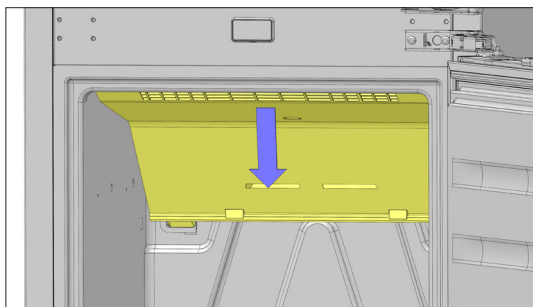
NOTE: On some models the evaporator and evaporator fan are attached to the evaporator cover.

NOTE: To remove, evacuate the refrigerant in the unit first.

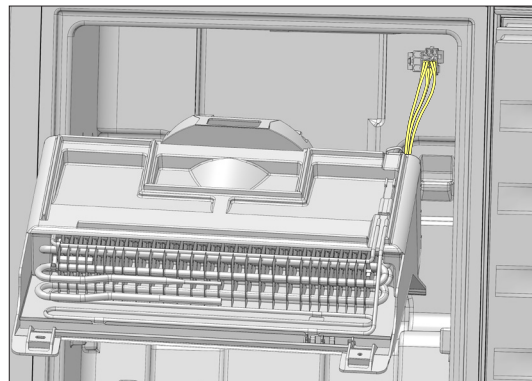
1. Complete the steps [1-6](#) from FC and Evaporator Thermistors.
2. Place thermistors off to the side.
3. Cut the refrigerant lines to the evaporator.



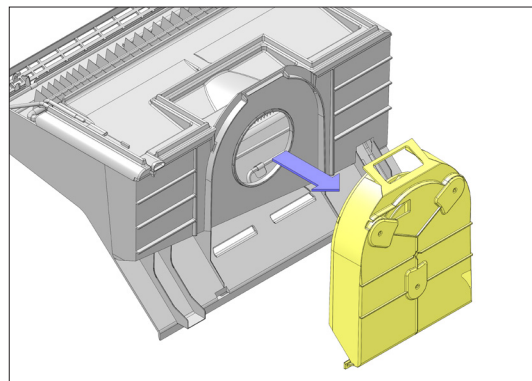
4. Lower the cover and lift from tab in the back.



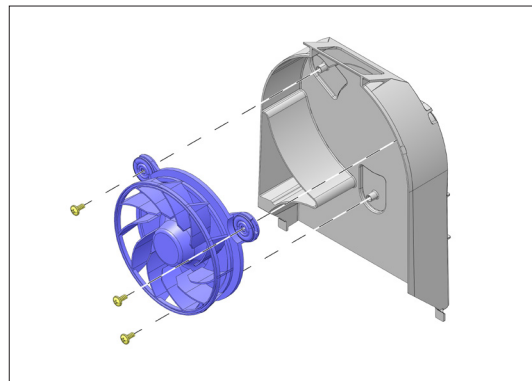
5. Unplug the wiring connectors before you pull out of the unit.



6. Unsnap the evaporator fan housing from the evaporator assembly.



7. Remove three (3) Phillips head screws to remove the evaporator fan.



Machine Compartment

⚠ WARNING



Electrical Shock Hazard
Disconnect power before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

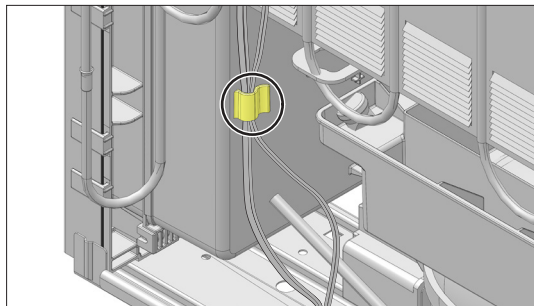
⚠ WARNING



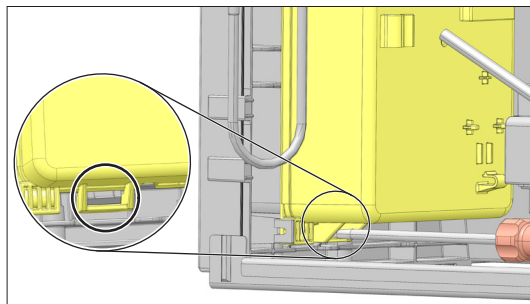
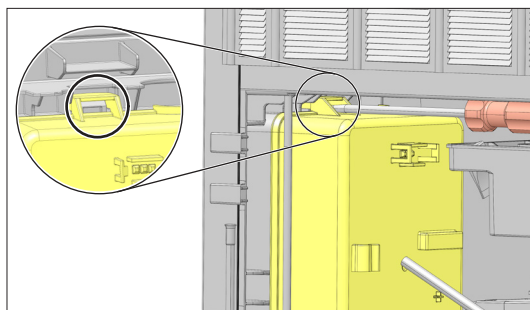
Explosion Hazard
Risk of fire or explosion. Flammable refrigerant used.
Do not use mechanical devices to defrost refrigerator.
Do not puncture refrigerant tubing.

ACU

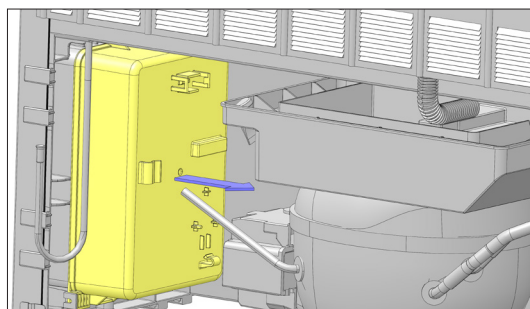
1. Remove wires from clip.



2. Insert screwdriver into slot on top and bottom of cover to release the cover.



3. Pull straight out the cover to remove.



PRODUCT SPECIFICATIONS & WARRANTY INFORMATION SOURCES

IN THE UNITED STATES:

FOR PRODUCT SPECIFICATIONS AND WARRANTY INFORMATION CALL:

FOR WHIRLPOOL PRODUCTS: 1-800-253-1301

FOR TECHNICAL ASSISTANCE WHILE AT THE CUSTOMER'S HOME CALL:

THE TECHNICAL ASSISTANCE LINE: 1-800-832-7174

**HAVE YOUR STORE NUMBER READY TO IDENTIFY YOU AS AN
AUTHORIZED IN-HOME SERVICE PROFESSIONAL**

FOR LITERATURE ORDERS (CUSTOMER EXPERIENCE CENTER):

PHONE: 1-800-851-4605

FOR TECHNICAL INFORMATION AND SERVICE POINTERS:

www.servicematters.com

IN CANADA:

FOR PRODUCT SPECIFICATIONS AND WARRANTY INFORMATION CALL:

1-800-461-5681

FOR TECHNICAL ASSISTANCE WHILE AT THE CUSTOMER'S HOME CALL:

THE TECHNICAL ASSISTANCE LINE: 1-800-488-4791

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