

# REC PRO<sup>®</sup>



***6.3 cu ft GAS AND  
ELECTRIC RV  
REFRIGERATOR***

***USER MANUAL***

***RP-2165 • RP-2166***



**WARNING: FIRE OR EXPLOSION HAZARD**

If you smell gas:

1. DO NOT attempt to light the appliance, and make sure the appliance is in the off position.
2. Extinguish any open flame.
3. Do not touch electrical switches.
4. Do not use electronic devices such as cell phones or landline phones.
5. Evacuate the building or recreational vehicle.
6. Shut off the fuel supply at the LP tank.
7. Call emergency services.

Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury, or death.

**WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage.

Refer to this manual. For assistance or additional information, consult a qualified installer or service agency.

**FOR YOUR SAFETY**

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

**WARNING: CARBON MONOXIDE POISONING MAY CAUSE DEATH OR INJURY**

When used without adequate combustion and ventilation, the refrigerator may give off excess CARBON MONOXIDE.

This is an unvented gas-fired appliance. The refrigerator uses air (oxygen) from the area in which the refrigerator is used. Adequate combustion and ventilation must be provided.

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# INTRODUCTION

The installation should be performed by qualified personnel only and must conform to all relevant local authorities. Be aware of possible safety hazards when seeing alert symbols on the refrigerator as well as in this manual. To ensure safe and efficient operation, the refrigerator and vents must be installed as identified in this manual without modification. The installer must affix the refrigerator model's user manual to the refrigerator.

The appearance of your product may vary from the illustrations shown in this document.

Not all procedures in this document will apply to your product. Read and follow the information pertaining to the specific model number of your product before starting the installation.

## WARNING

Any modifications or deviations:

- Can lead to carbon monoxide leaking into the living area.
- Can reduce cooling performance and/or result in damage to the refrigerator.
- Will void safety certifications.
- Will void refrigerator warranty.

## NOTICE

Any deviation from the prescribed installation instructions in this manual must have prior written approval and safety certification verification from RECPRO.

## CERTIFICATION AND CODE REQUIREMENTS

This appliance is certified under the latest edition of CSA/ANSI Z21.19 · CSA 1.4 Refrigerators using gas fuel. The installation must conform with local codes or in the absence of local codes, the following standards as applicable.

The installation shall conform with the following, as applicable:

- Local codes or, in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1/ NFPA 54;
- The Natural Gas and Propane Installation Code, CSA B149.1, and any Provincial amendments;
- Recreational Vehicles Code, ANSI A119.2, and Recreational Vehicles CSA Z240 RV Series; A manufactured home (mobile home) installation shall conform with the:
  - Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280. [formerly the Federal Standard for Mobile Home Construction and Safety, Title 24 (Part 280)]
  - The Gas-equipped Recreational Vehicles and Mobile Housing, CSA Z240.4

The appliance and its individual shut-off valve shall be disconnected from the gas supply piping system during any pressure testing of that system at test pressures of more than 1/2 psi (3.5 kPa).

The appliance shall be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

If an external electrical source is utilized, the appliance, when installed, shall be electrically grounded in accordance with local codes or, in the absence of local codes, the National Electrical Code, NFPA 70 or the Canadian Electrical Code, CSA C22.1, Parts I and II.

# INSTALLATION PREPARATION

## ASSEMBLING THE REFRIGERATOR ENCLOSURE

### NOTICE

The ventilation compartment is part of the product safety certification and must not be used for any other purpose than securing air for combustion and ventilation of flue gases and warm air.

Read and follow these points:

- The refrigerator must be level and installed in a substantial enclosure. See "APPENDIX A" See FIG 1.
- The floor must be solid and level and able to support the weight of the refrigerator and its contents.
- Ensure that any adjacent heat sources (e.g., furnace exhaust vents) do not affect the ventilation of the refrigerator.
- All joints in the enclosure must be sealed to prevent gas leakage into the living area.
- The enclosure must be free of exposed materials that may potentially damage the refrigerator, e.g., screw tips, staples, etc.
- A wood strip must be in place across the upper opening of the enclosure. The top frame of the refrigerator will be anchored to the wood strip with screws, see FIG 2.
- The refrigerator must not be installed directly on carpeting:
  - Carpeting must be removed or protected by a metal or wood panel beneath the appliance, which extends at least the full width and depth of the appliance.
  - If the refrigerator is sitting on a wood floor, the exposed portion behind the refrigerator will need to be painted with an anti-wicking paint to protect against water or moisture that comes in through the side.

### WARNING

Failure to adhere to the above installation criteria could create a combustion hazard.

### CLEARANCES

CSA International certification allows the refrigerator to have zero (0) inch minimum clearance at the sides, rear, top, and bottom. See FIG 3

While there are no maximum clearances specified for certification, the maximum clearances specified are necessary for correct refrigerator performance.

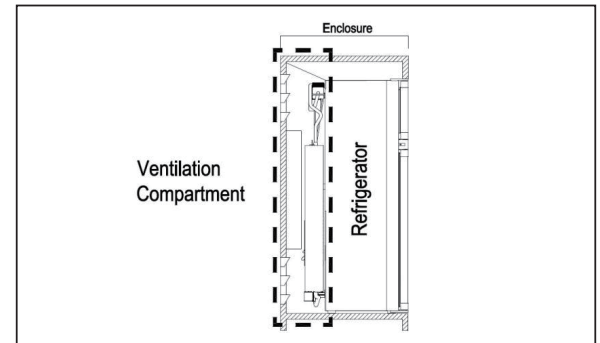


FIG 1

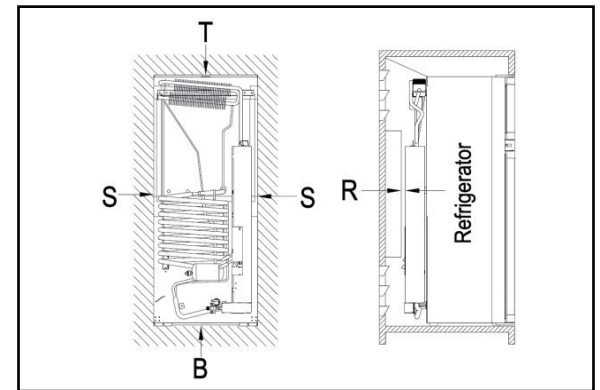


FIG 2

CLEARANCES (FIG 2)	
Top (T)	0" Min to 1/4" Max
Side (S)	0" Min to 1/4" Max
Bottom (B)	0" Min to 0" Max
Rear (R1)	0" Min to 1" Max

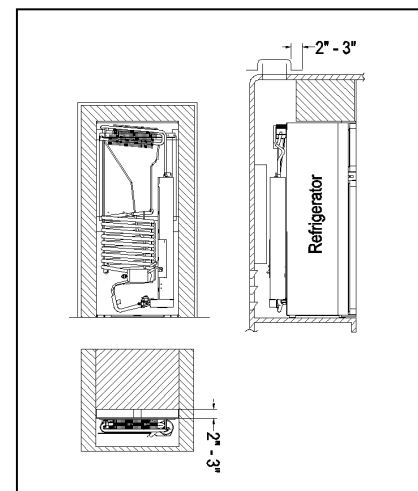


FIG 3

# INSTALLATION PREPARATION

## TOP AND SIDES

See page 5 for rough dimensions. Dimensions will vary by model. If there is more than 1/4" between either side or the top of the refrigerator and the inside of the refrigerator box, then fill the space with insulation, baffles, or non-flammable fabricated seals to avoid trapping heat and sacrificing the performance of the unit. See the Insulation Note below for additional details.

## INSULATION NOTE!

- Any insulation used must be securely attached to the enclosure walls and ceiling to prevent it from shifting when the refrigerator is installed in the enclosure.
- If there is a void space above the refrigerator, insulation should be secured with spray adhesive to the top of the refrigerator to fill the space.
- Trim insulation. Cut it 2-3" shorter than the depth of the refrigerator box. See FIG 5 below.
- Insulation must not meet the cooling unit! Loose insulation can obstruct air flow, creating cooling issues and possible damage to the refrigerator.

Place insulation filling in the space between the refrigerator compartment and the sides and top of the refrigerator.

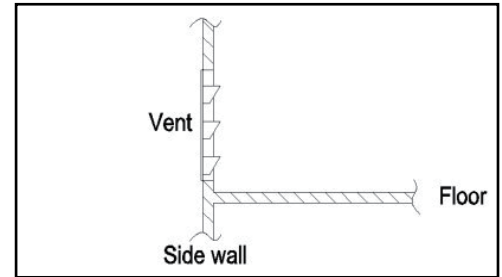


FIG 4

## VENTILATION REQUIREMENTS

Ventilation is one of the requirements for proper cooling unit operation. Clearances and the use of vents ensure a natural draft which is necessary for good refrigeration.

Make sure to read and follow these points:

- a) The refrigerator shall be installed using the combustion vent (FIG 4)
- b) The combustion vents will be installed in the proper manner;
- c) The combustion vents shall not be modified;
- d) All areas at the front (sides, bottom, and top) and within the recess in which the refrigerator is installed shall be sealed so the resultant installation will isolate the appliance combustion system from the vehicle interior;
- e) The methods and type(s) of materials

### Vent above floor level

When lower vent frame is positioned higher than the refrigerator compartment floor, the following is required:

- (2) 1 3/4" holes
- Cover holes with 14"x14" screen
- Holes must be clean of obstructions

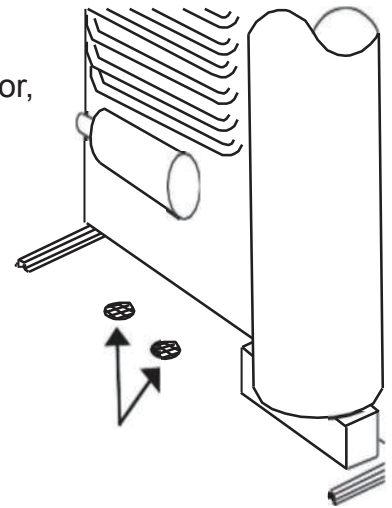


FIG 5

recommended for sealing the refrigerator from the vehicle structure are used;

- f) An opening communicating with the outside atmosphere shall be provided at the floor level of the refrigerator for ventilation of heavier-than-air gases. The size and location(s) of the opening shall also be specified.



Unburned "Raw" LP gas is heavier than air and can collect at floor level, creating a combustion hazard.  
· For vents installed above floor level, additional holes are required to vent these gases to the out-of-doors. Use Fig 5 for details.

# INSTALLATION PREPARATION

## MAKING AIR INLET AND OUTLET VENTS

### NOTICE

Deviations from the inlet and outlet variations shown here must be approved by the manufacturer.

At high ambient temperatures, the refrigerator can only provide its maximum cooling capacity if optimum ventilation has been provided.

- Make an air inlet vent and an air outlet vent in the outer wall with the size of Appendix C. When doing so, see the chapter "Preparing the installation" on page 5.
- If the ventilation grill of the air inlet vent cannot be installed flush with the floor of the niche, install an inlet vent in the floor. Any leaking gas can thus flow downwards.
- Make an air inlet vent in the floor, see FIG 6.1, behind the refrigerator near the gas burner, FIG 6.4.
- Shield the end of the opening with a deflector to prevent sludge or dirt from getting inside while driving see FIG 6.3.

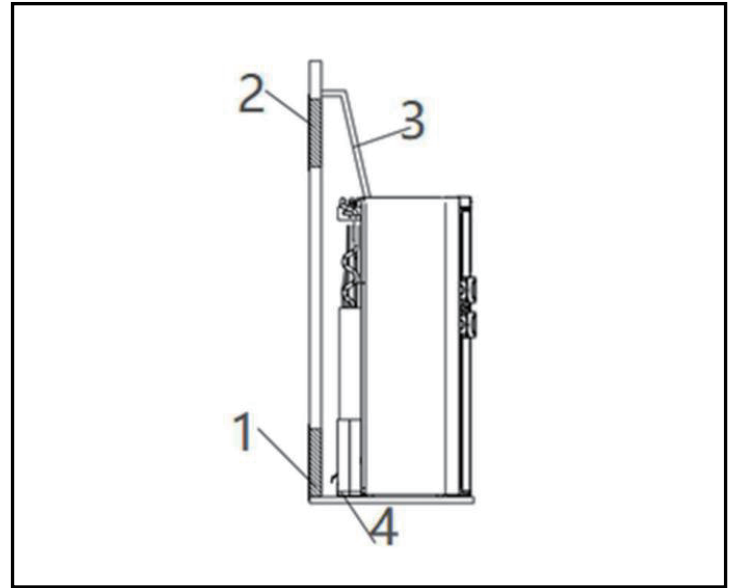


FIG 6

If you have to use a roof vent instead of the air outlet vent:

- Cut out a section in the roof.

Refer to the roof vent instruction manual for the required dimensions.

- When doing so, observe the information chapter "Preparing the installation" on page 4S.

If the ventilation grill of the air inlet vent cannot be installed flush with the floor of the niche, install an inlet vent on the floor. Any leaking gas can thus flow downwards.

- Make an air inlet vent in the floor see FIG 7 behind the refrigerator near the gas burner.
- Shield the end of the opening with a deflector to prevent sludge or dirt from getting inside while driving see FIG 7.

If you have to use a roof vent instead of the air outlet vent:

- Cut out a section in the roof. Refer to the roof vent instruction manual for the required dimensions. When doing so, observe the information in the chapter "Preparing the installation" on page 5, FIG 3.

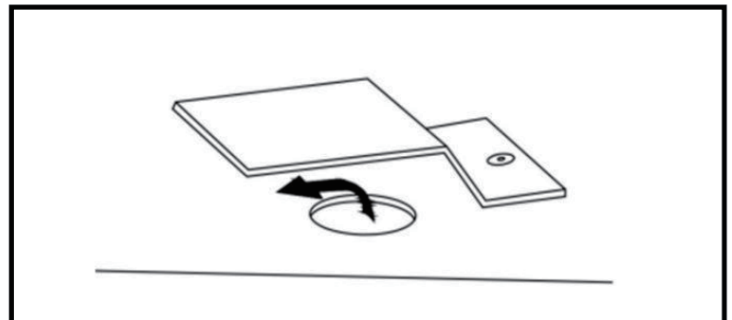


FIG 7

# INSTALLATION PREPARATION

- The flow of combustion and ventilation must not be obstructed, e.g., by an open RV door.
- Do not install an awning too close to the upper side vent. Allow approx. 6-12" of clearance.
- The minimum vent height requirements, listed in "APPENDIX B", are part of the safety certification and must be complied with.

## RECESS DEPTH

Spaces of more than 1", see FIG 8, from the rear wall to the refrigerator may create performance problems. Fresh air will not pass through the cooling unit, which will reduce the efficiency. It is important to check the recess depth and add baffle(s) to increase the movement of air across the coil.

If there is more than 1" between the inside of the ventilation compartment and the cooling unit, it is required to add box baffle(s) starting above the lower access vent and running perpendicular to the side wall. The baffle should extend up to the ceiling (inboard roof vent applications) or up to within 1/2" lower than the condenser fins (roof vent applications). For upper and lower side wall vent applications; the baffle should come within 1/2" lower than the condenser fins. This will ensure more efficient operation in warm temperatures.

Make sure the baffle is of the same width as the ventilation compartment. See FIG 9.

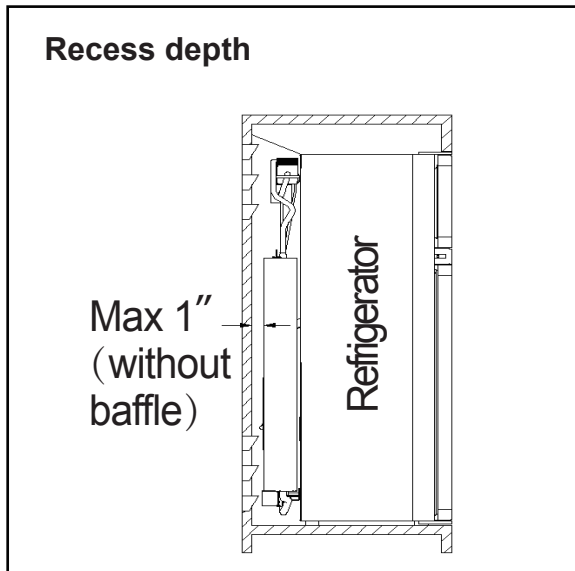


FIG 8

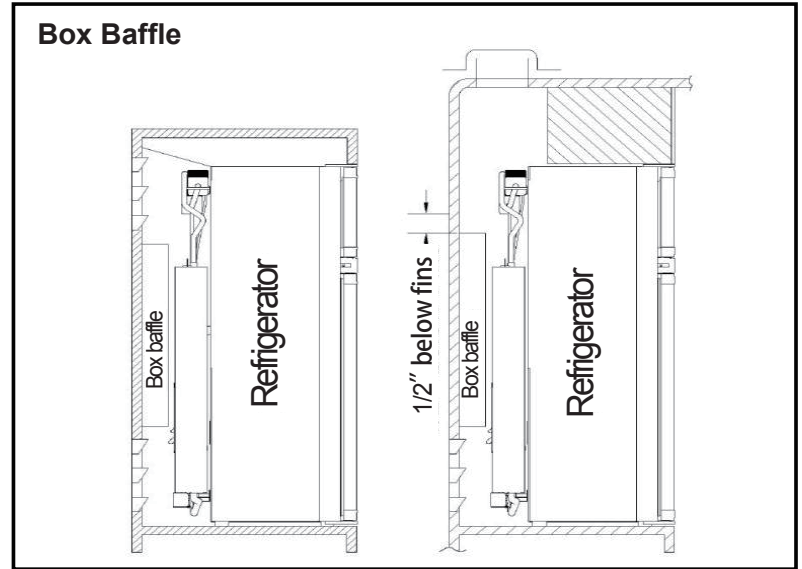
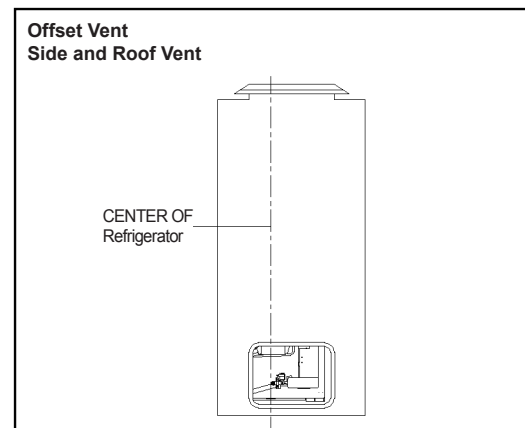
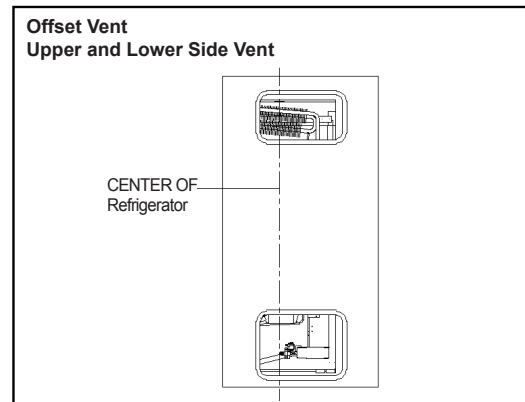


FIG 9

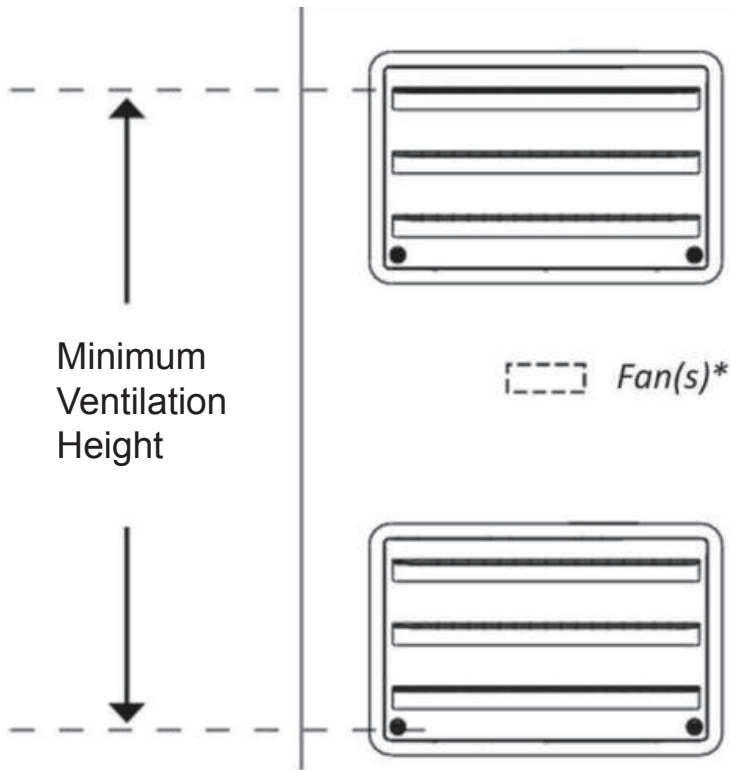
## OFFSET VENTS

If vents must be offset due to interference of building materials, the vent must always be offset towards the flue side of the cooling unit. The vent should be centered over the cooling unit so that the air can flow up and out of the compartment creating a chimney effect.



# INSTALLATION OF OPTIONAL VENT

## UPPER AND LOWER SIDE VENT APPLICATION INSTALL UPPER AND LOWER SIDE VENTS



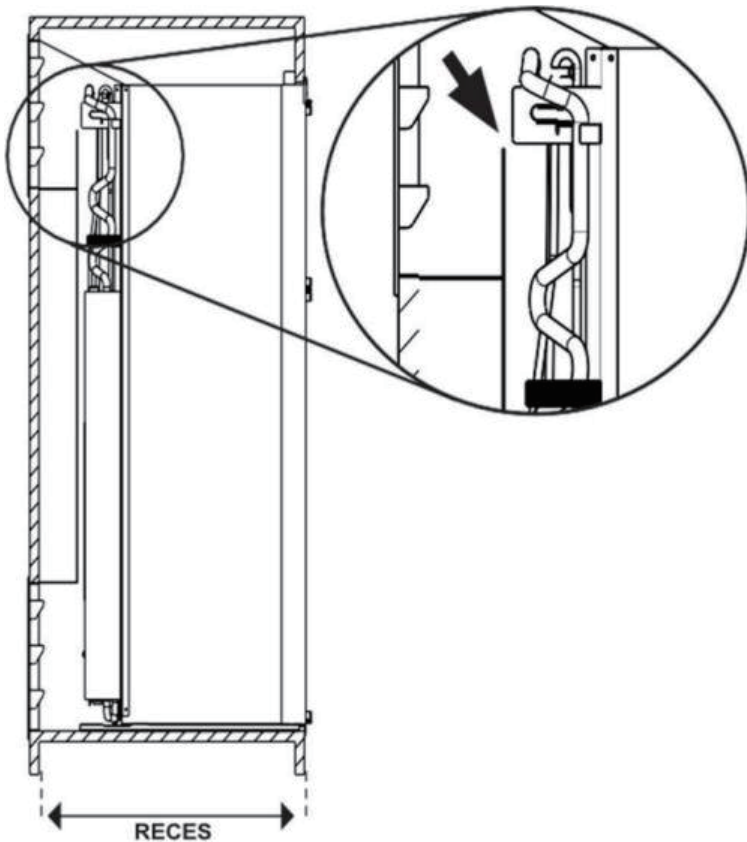
**1. CHECK VENTILATION HEIGHT.** See “APPENDIX B”.

**2. CHECK RECESS DEPTH.** See “INSTALLATION PREPARATION >RECESS DEPTH”.

If required, install a box baffle above the lower access vent extending within 1/2” lower than the condenser fins, as shown in the picture below.

**3. INSTALL LOWER SIDE VENT.** See “APPENDIX C”.

**4. INSTALL THE UPPER SIDE VENT.** See “APPENDIX C”.





# INSTALLATION PROCEDURE

## INSTALLING THE REFRIGERATOR

For a proper installation, follow these instructions:

- Carefully place the refrigerator in the enclosure.
- Verify that there is a complete seal between the front frame of the refrigerator and the top, sides, and bottom of the enclosure. A length of sealing strip is applied to the rear surface of the front frame for this purpose. The sealing strip should provide complete isolation of the appliance's combustion system from the vehicle interior.

Apply a sealing strip to the foremost floor of the enclosure. See FIG 10.

Be careful not to damage the sealing strip when the refrigerator is put in place.

## SECURING THE REFRIGERATOR

It is important to follow the sequence in securing the refrigerator in the enclosure since failure in doing so can cause leakage between the frame and cabinet. After the refrigerator is put in place (ensuring a combustion seal at the front frame), the refrigerator is to be secured in the enclosure with screws (not included).

Install the six screws in the following order:  
Six screws installed through the body side frame. (To cover the screw heads, use the plugs in the parts bag.) See FIG 11

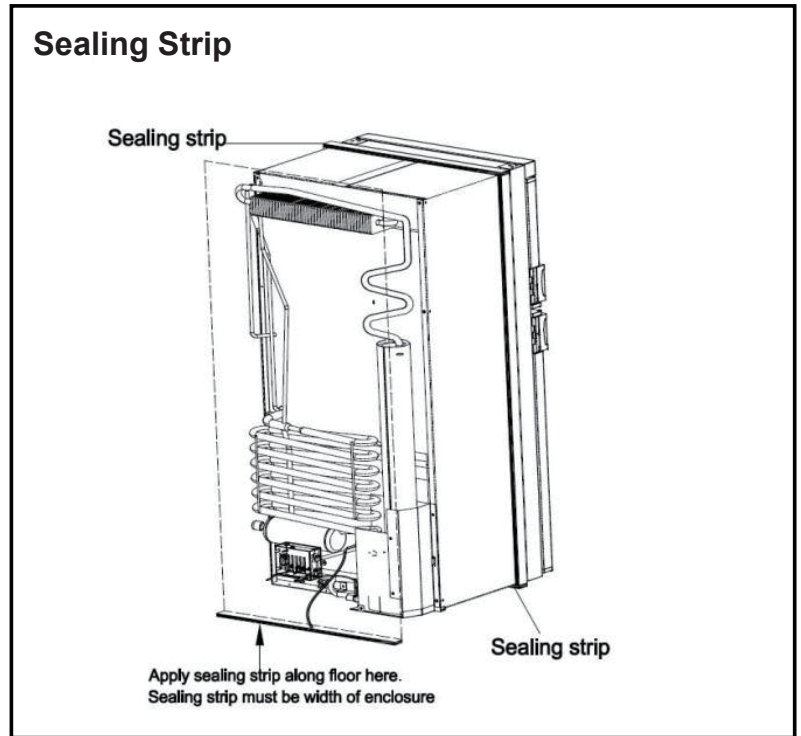


FIG 10

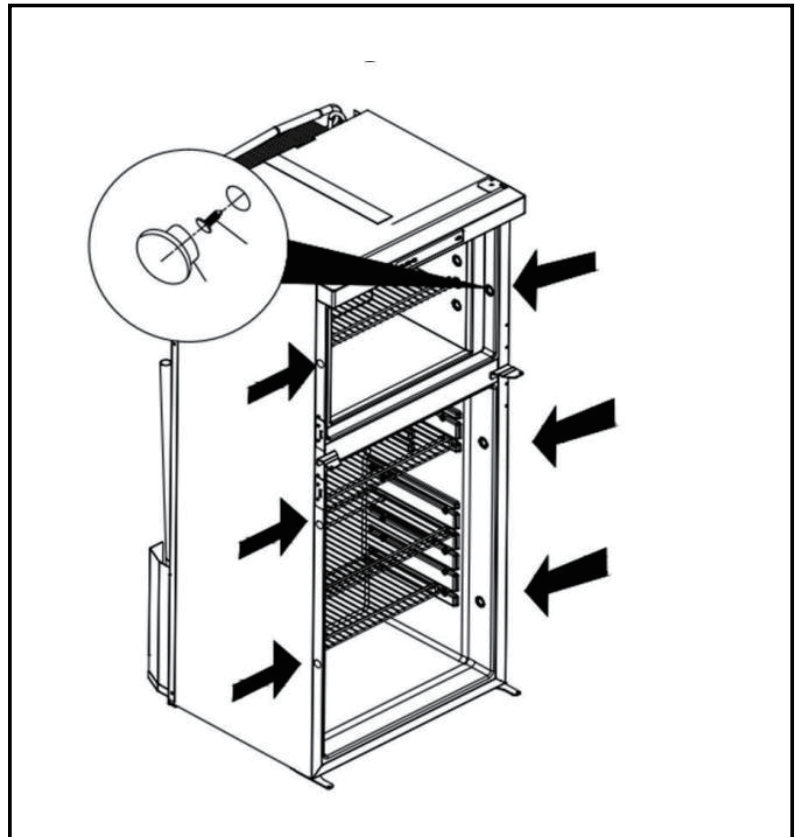


FIG 11

# INSTALLATION PROCEDURE

## DRAIN WATER HOSE

- The hose must not contact the boiler casing.
- The hose must not be kinked.
- The hose must not be routed uphill at any point.
- The perforated plug must be present at the end of the hose.

## OPTION 1 - THROUGH FLOOR

Drill a hole through the flooring. See FIG 12. Seal around the hole. Check to make sure the supplied hose is long enough – if not, the installer will have to supply an extra length of hose.

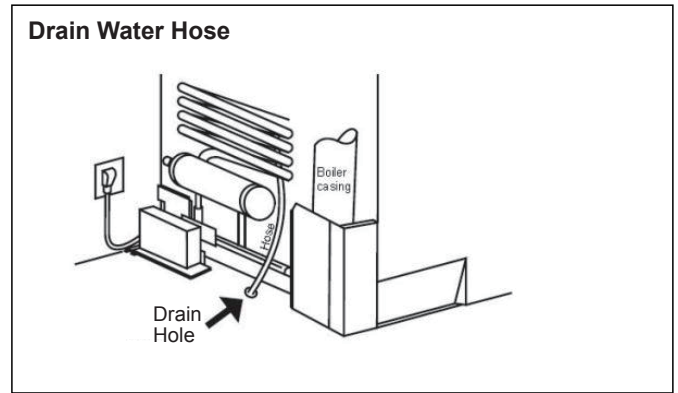


FIG 12

## OPTION 2 - THROUGH VENT FRAME (PLASTIC VENTS ONLY)

Pull the end of the hose through the louvers in the vent door. Cut hose to length. Reinstall the perforated plug.

## OPTION 3 - THROUGH VENT DOOR (SIDE-BY-SIDE PLASTIC VENT ONLY)

Drill a 5/8" hole in the vent frame directly above the floor line. Route drain hose through hole and cut to length. Reinstall the perforated plug on the outside of the vent frame. Apply sealant around the plug to ensure water does not seep into the enclosure.

## NOTICE!

There are two 12v DC connections on this refrigerator. See APPENDIX E - WIRING DIAGRAM. Both of these 12V DC connections must be wired and connected to a 12V DC power source (battery, fuse box, etc.) for the refrigerator to function. The refrigerator WILL NOT OPERATE if these connections are not powered.

## CAUTION

All connections should be routed to avoid direct contact with the boiler casing, burner cover, or any other components of the refrigerator.

## GAS CONNECTION

Hook up to the gas supply line is accomplished at the manual gas valve, which is furnished with a 3/8" SAE (UNF 5/8" -18) male flare connection. ALWAYS use a backup wrench when loosening and tightening gas connections. All completed connections should be examined for leaks using an approved leak detection solution.



**EXPLOSION HAZARD.** Never use an open flame to check for gas leaks. Failure to obey this warning could cause an explosion resulting in death or severe personal injury.

The gas supply system must incorporate a pressure regulator to maintain a supply pressure of not more than 11 inches water column. When testing the gas supply system at test pressures:

> 1/2 psi - the refrigerator and its individual shutoff valve must be disconnected from the gas supply piping system.

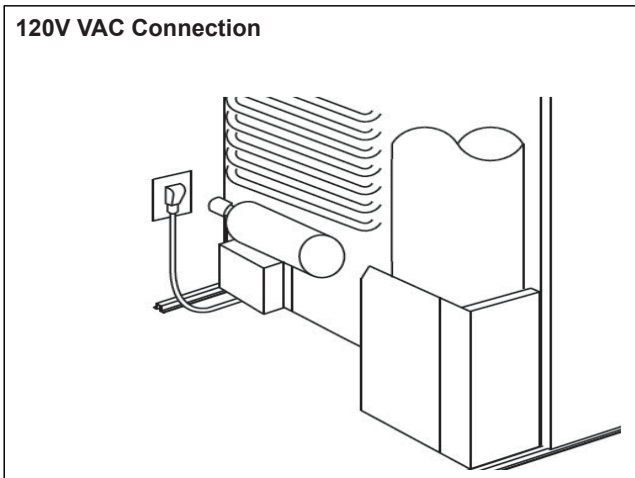
≤ 1/2 psi - the appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve.

If detailed instructions on the installation and connection to the gas supply are required, please contact your dealer or distributor.

# INSTALLATION PROCEDURE

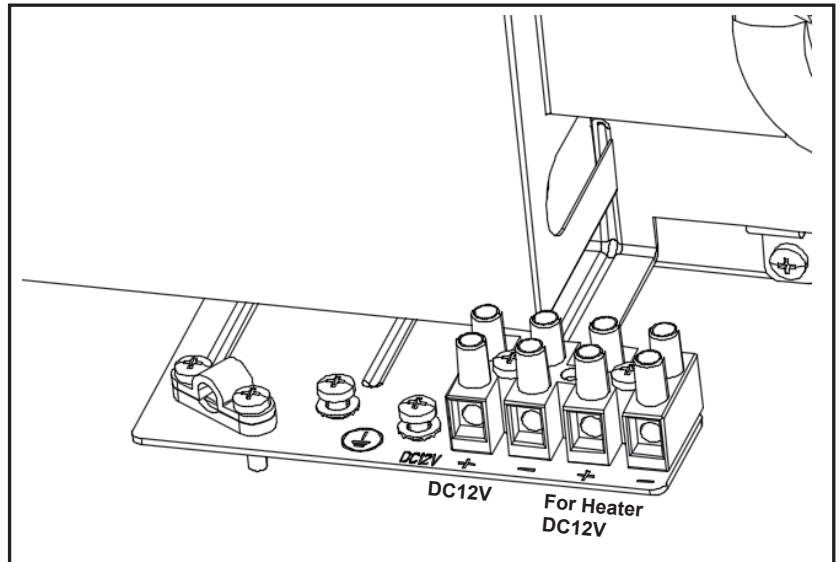
## ELECTRICAL CONNECTION 120 VAC CONNECTION

The refrigerator is equipped with a grounded three-prong plug for protection against shock hazards. It should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug! The free length of the cord is 2 feet. To allow easy access through the vent door, it is recommended to install the receptacle on the opposite side of the burner assembly and approx. 3-6" above the refrigerator mounting floor.



## 12 VDC CONNECTION

The connection is made to the positive (+) and negative (-) terminals of the terminal block on the back of the refrigerator. Correct polarity must be observed when connecting to the DC supply. Do not use the chassis or vehicle frame as one of the conductors. Connect two wires at the refrigerator and route them to the DC supply. Ensure the connections are clean, tight, and free from corrosion. For 3-way models, the voltage drop affects the wattage output of the 12V cartridge heater and the refrigerator performance. The 12V DC heater is fused with a 30 amp in-line blade fuse. Ensure that the wires from the battery to the refrigerator can handle the load. Recommended wire sizes are displayed in the table below.



MAXIMUM WIRE LENGTH			
MODEL	WIRE	Size	Length
		AWG	ft
RP-2165 RP-2166		10	27

Example: If the distance between the refrigerator and the 12V DC supply is 20 ft., the total wire length is 40 ft., and a wire size of 10 AWG should be used.

# INSTALLATION PROCEDURE

## FREEZER DOOR PANEL INSTALLATION INSTRUCTIONS

To install the panel(s), follow these steps:

1. Open the door 90 degrees or loosen the door.
2. Locate decoration strips. Loosen screws and remove strips. See FIG 13
3. Remove the original door panel.
4. Insert the new panel into the grooves of the door frame. Push the panel downwards so that the lower horizontal edge of the panel is fitted into the bottom groove. See FIG 14
5. Fasten the decoration strips:
6. Snap in the decoration strips See FIG 15.
7. Secure the decoration strip with screws.

## REFRIGERATION DOOR PANEL REPLACEMENT

1. Turn the refrigerator upside down and take out 4 screws from the bottom of the refrigerator door.
2. The remaining steps are the same as the freezing door panel.
3. After installation and the refrigerator is set right side up, let it rest for a few hours before turning it on.

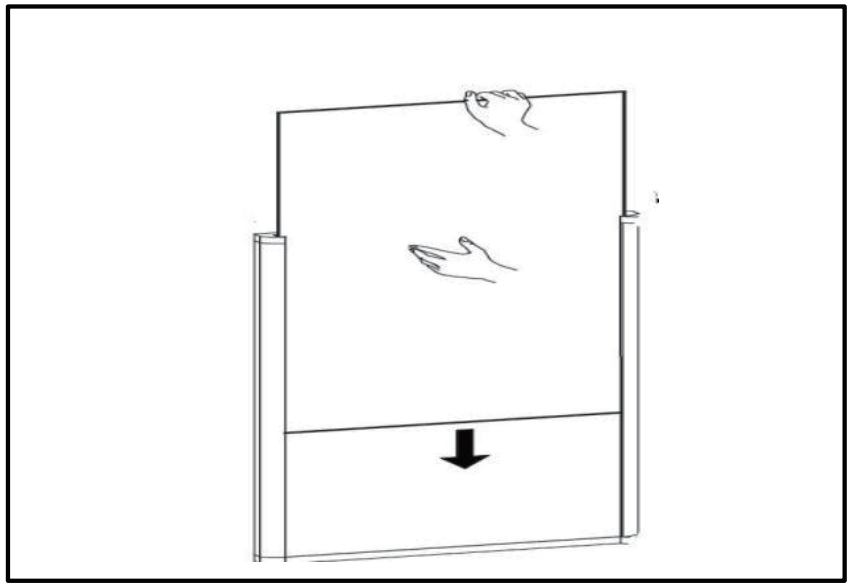


FIG 13

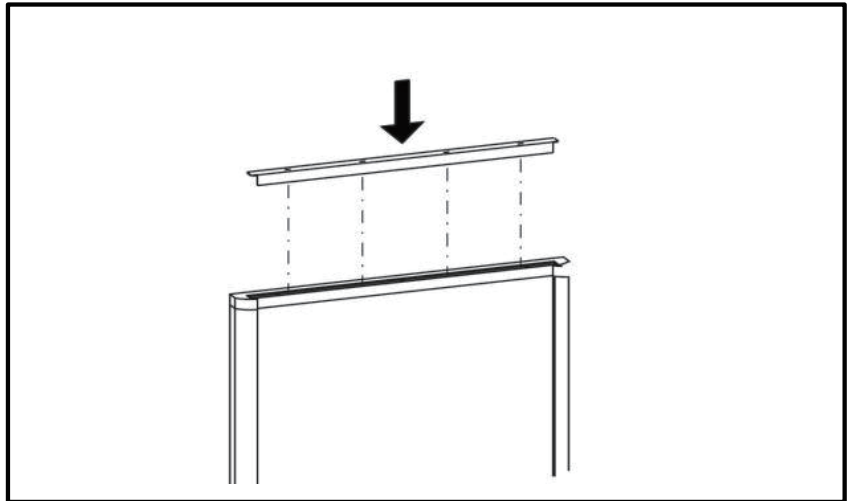


FIG 14

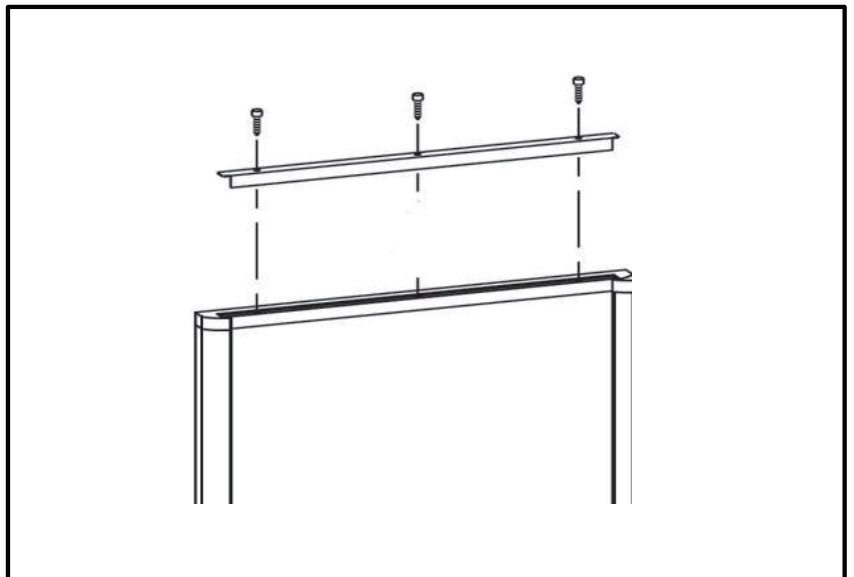
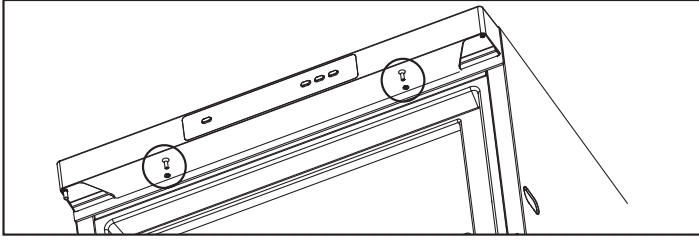


FIG 15

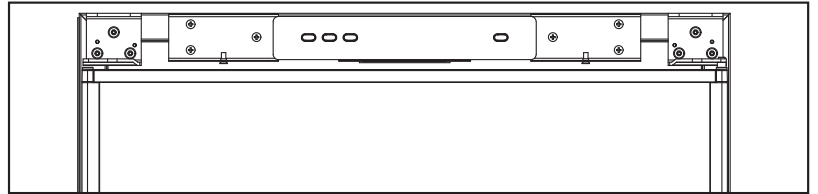
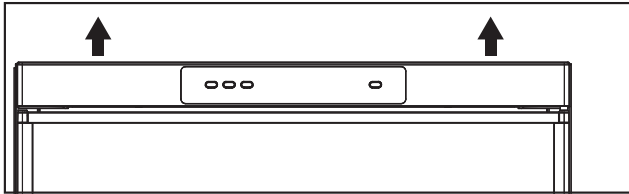
# DOOR HINGE DIRECTION REPLACEMENT

## Door disassembly

1. Remove the 2 screws



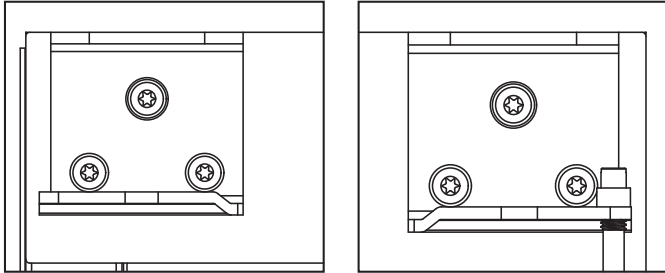
2. Remove the display panel



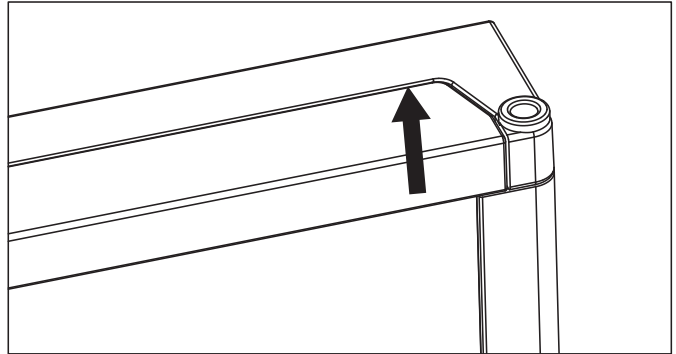
# DOOR HINGE DIRECTION REPLACEMENT

## 1. Remove the top hinge screws

When removing the last screw, another person needs to grasp the door to prevent it from falling

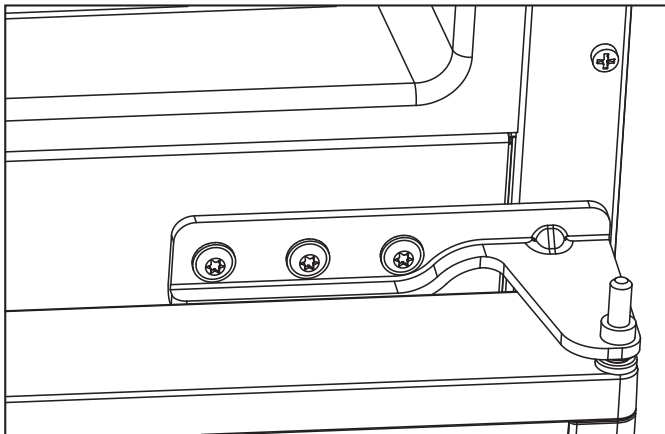


## 3. Remove the top hinge and lift the rear door up and out

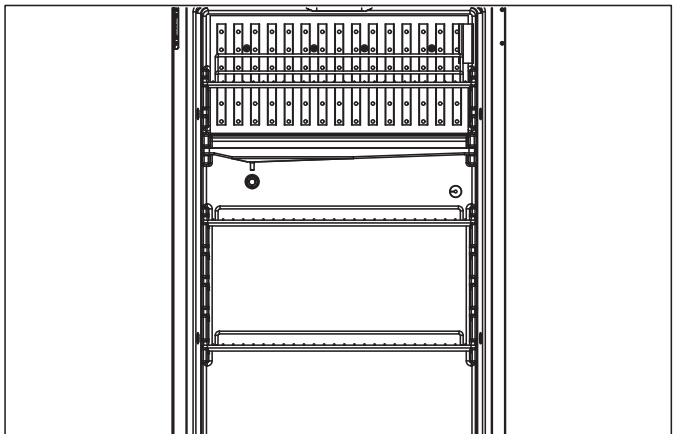


## 4. Open the refrigeration door 170 degrees, and then take out the three screws of the middle hinge

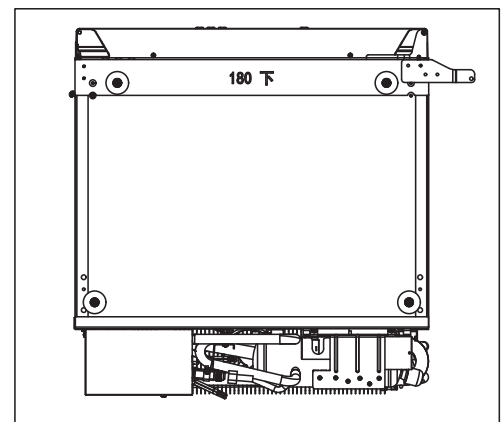
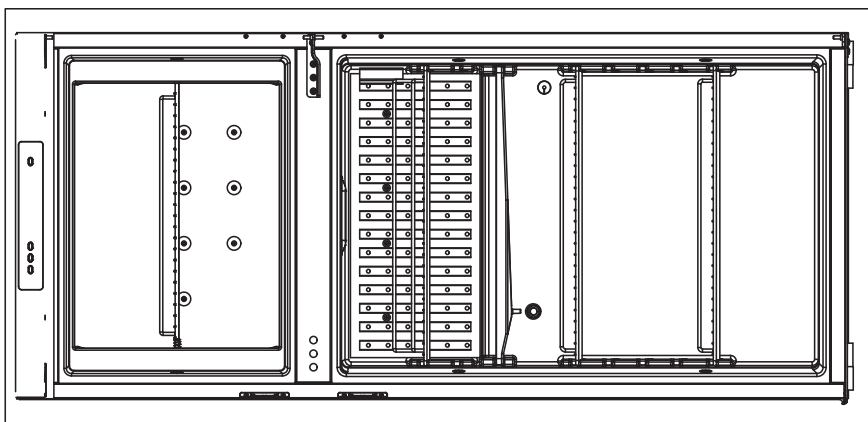
When removing the last screw, another person needs to grasp the door to prevent it from falling



## 5. Remove the middle hinge and lift the refrigerator door up and out

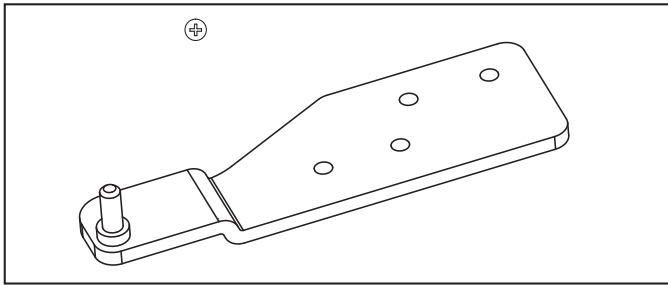


## 6. Turn the refrigerator upside down and remove the bottom hinge screws

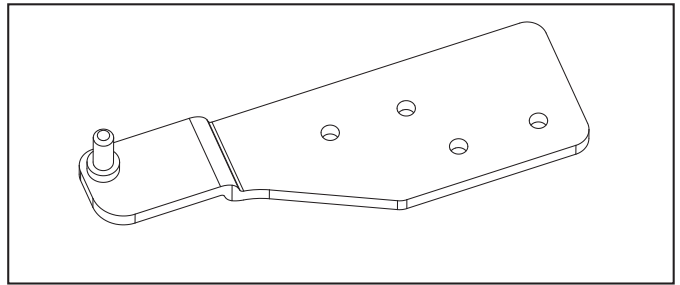


# DOOR HINGE DIRECTION REPLACEMENT

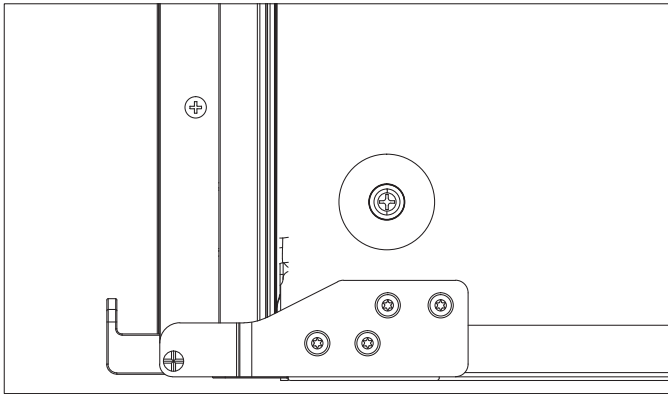
7. Remove the lower right hinge seat at the bottom of the refrigerator



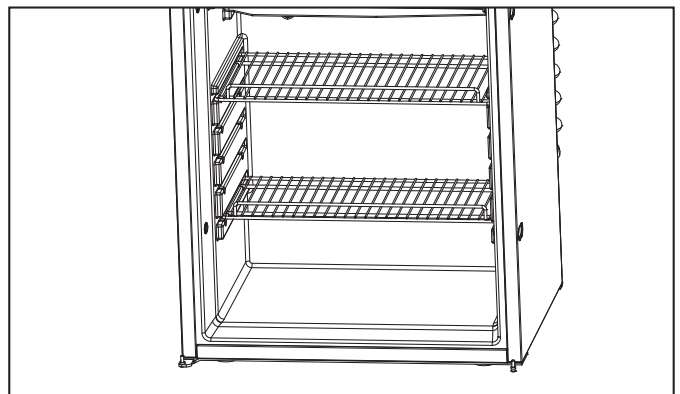
8. Install the lower left hinge seat shown in the figure to the bottom left of the refrigerator (Obtain the bottom hinge from the dealer)



9. Fix the lower left hinge with 4 screws

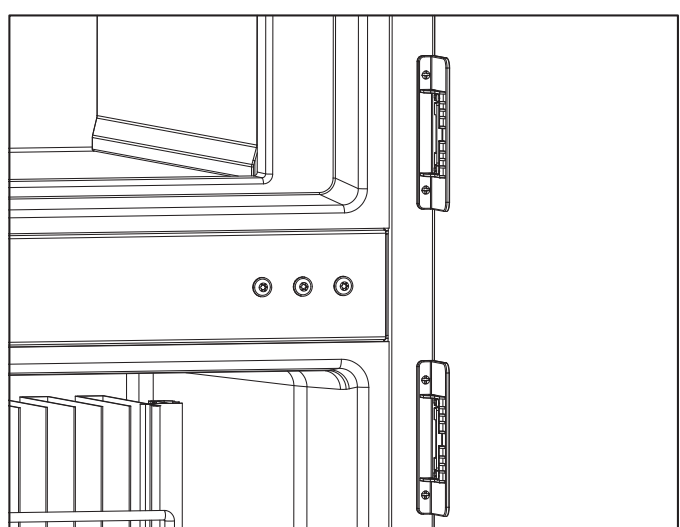
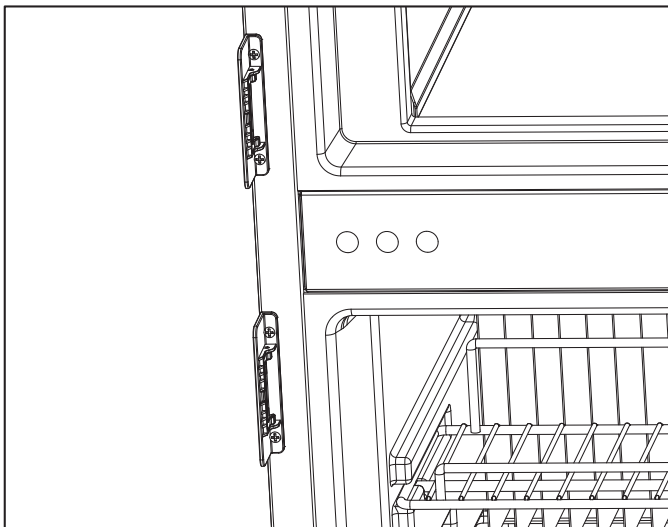


10. The refrigerator stands up



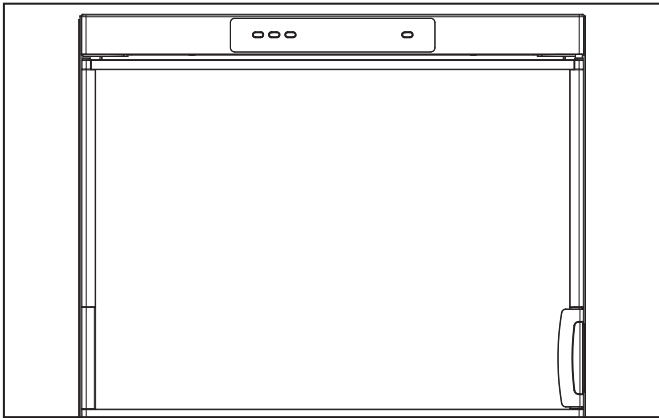
11. Remove the screws of the door buckle seat, turn the door buckle seat 180 degrees and fix it with screws

12. Take out the screw hole plug and install it in the screw hole on the other side



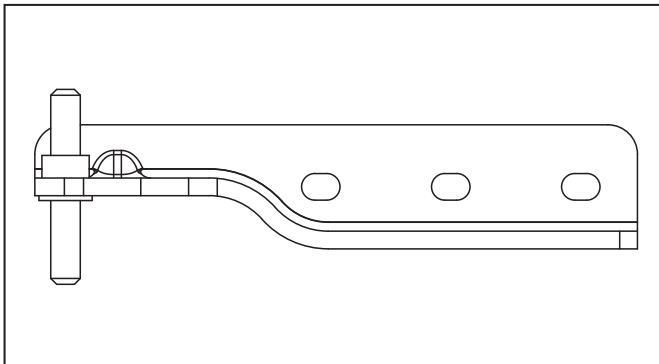
# DOOR HINGE DIRECTION REPLACEMENT

**13. Install the refrigeration door, and align the hole at the bottom of the refrigeration door with the rotating shaft of the lower hinge**



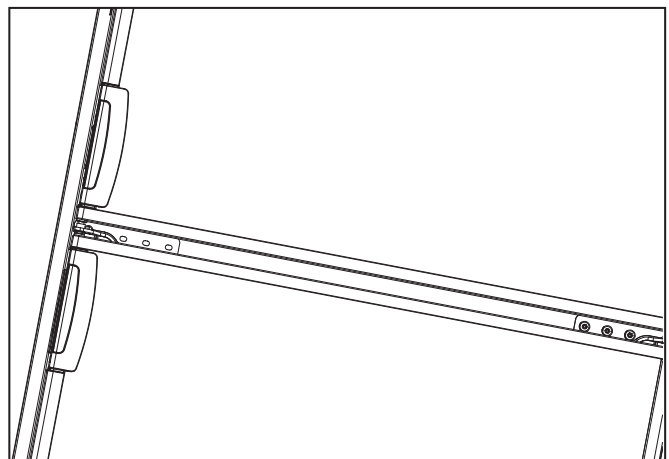
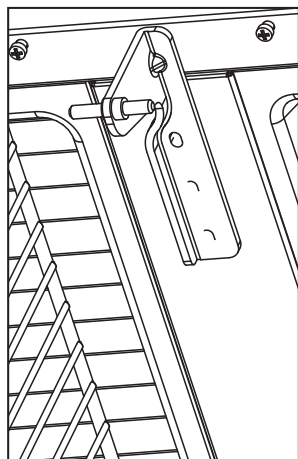
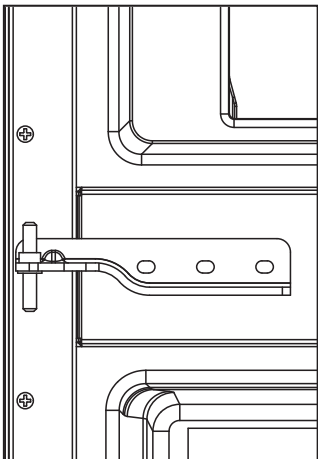
**14. Obtain the left middle hinge from the dealer**

**15. Install the left middle hinge as the picture below to the left middle position of the fridge**



**16. Align the rotating shaft with the mounting hole of the refrigeration door, open the door 170 degrees, and fix the middle hinge seat with 2 screws**

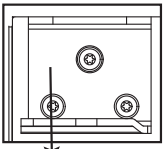
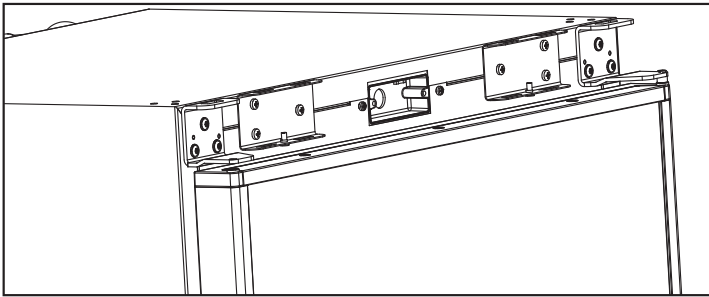
**17. Align the mounting hole at the bottom of the freezing door with the hinge rotation shaft and put it in**



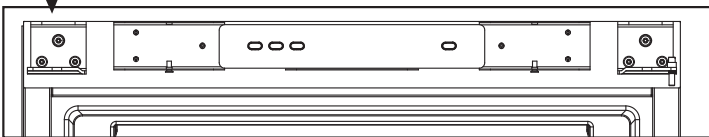


# DOOR HINGE DIRECTION REPLACEMENT

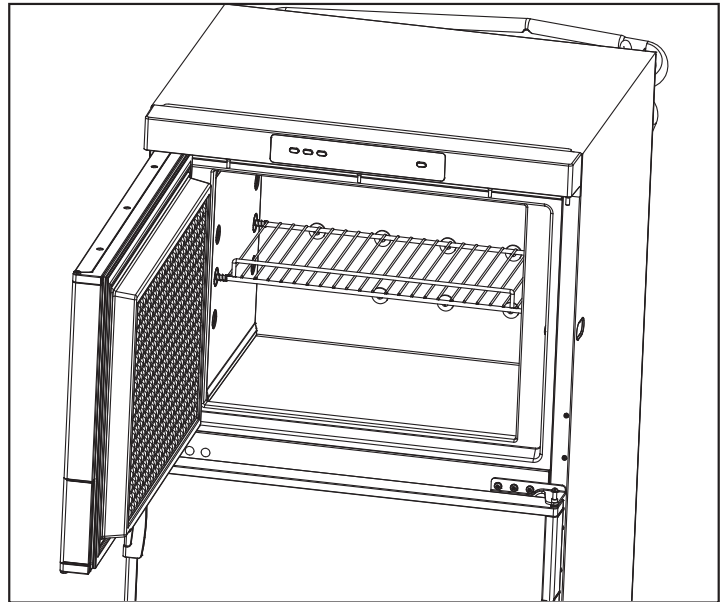
18. Remove the top right hinge rotating shaft and install it on the top left hinge base



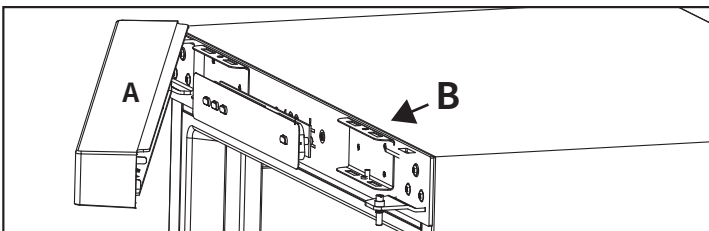
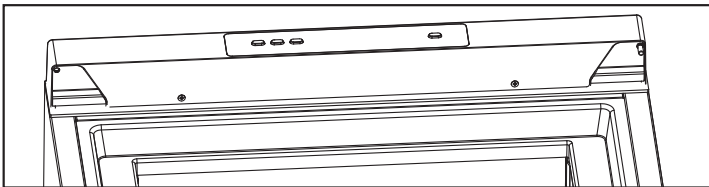
Both hinge seats at the top need to be installed, and there is no rotating shaft on one side



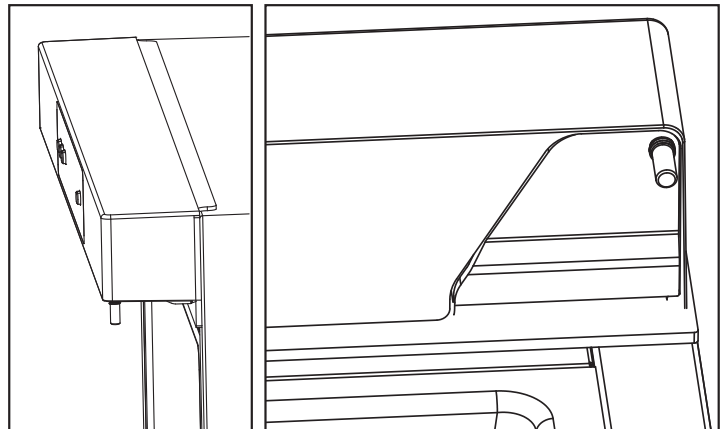
19. The freezing door is opened more than 90 degrees



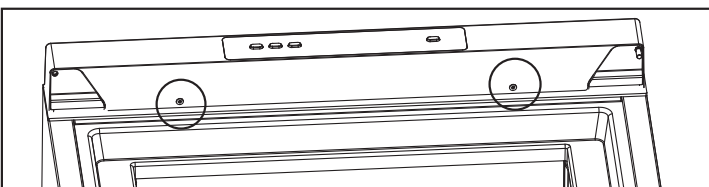
20. The display panel opening A is sleeved into the following figure B and the top hinge base



21. The figure on the right shows the state of complete insertion. Both sides need to be



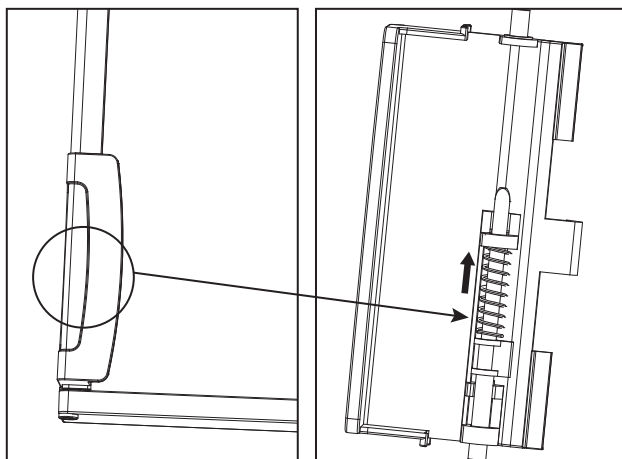
22. Secure the display panel at the bottom with two screws



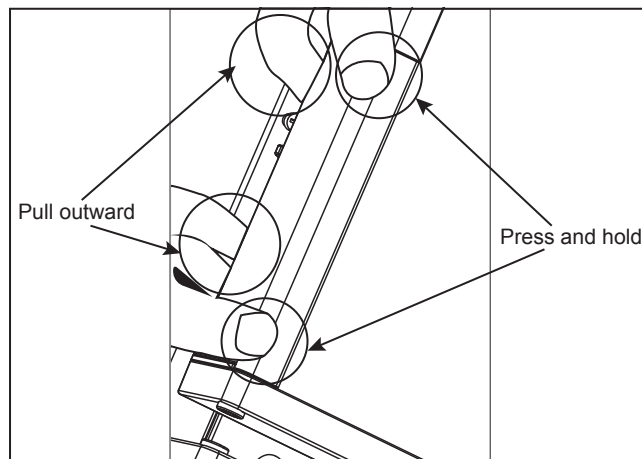
# DOOR HANDLE REPLACEMENT

1. Use a slotted screwdriver to push up the rotating axial direction of the spring section

2. Pull the handle outward after the rotating shaft is separated from the mounting hole

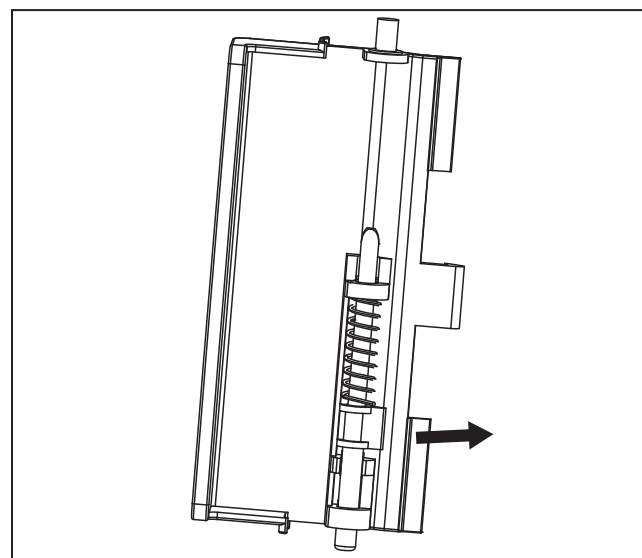
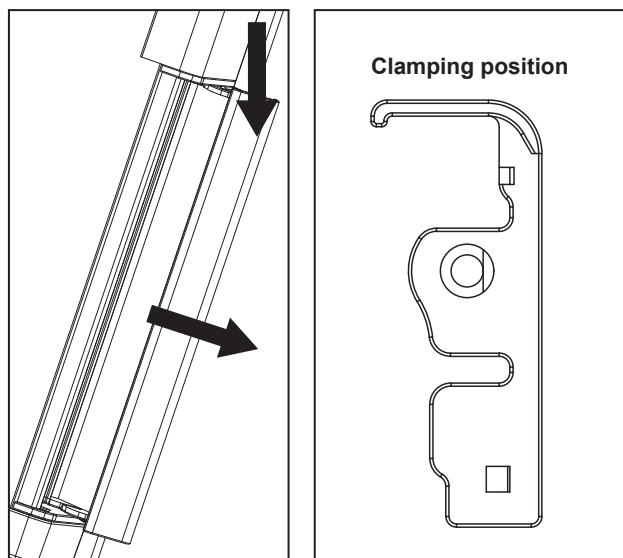


3. Press and hold with your big finger according to the right figure, and pull the other side outward



4. Press down with your hand and pull outward

5. Pull the spring outward

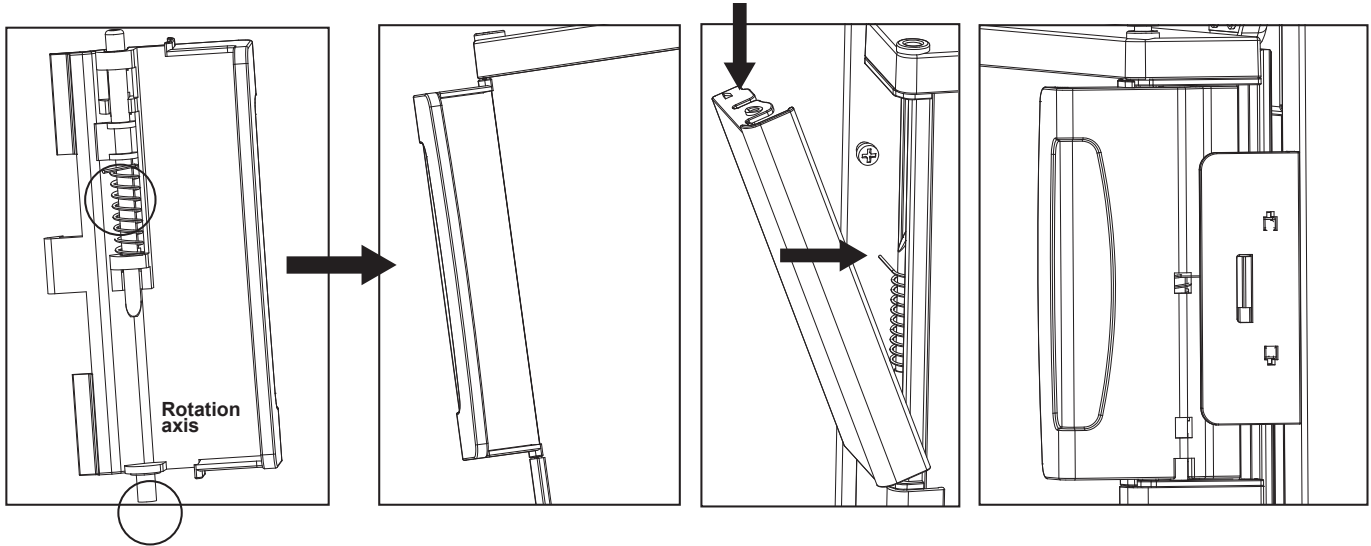


# DOOR HANDLE REPLACEMENT

6. Align the rotating shaft with the door handle mounting hole

7. Press and hold the spring and push it inward. The rotating shaft on the spring side presses against the end face of the door and releases the spring

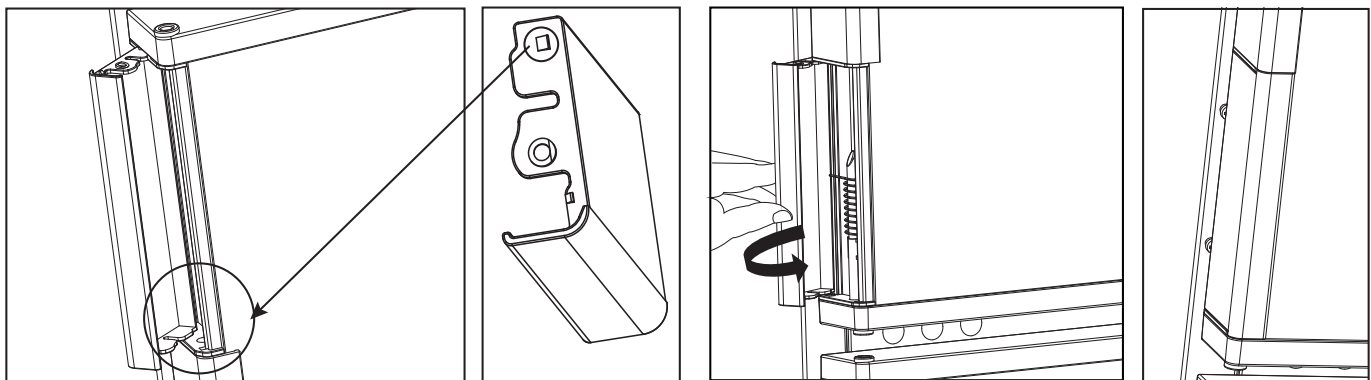
8. Then move the handle so that the rotating shaft enters the mounting hole



9. Put the circle marked bump in the figure into the groove

10. Press your fingers down and push in laterally

11. Push firmly in the direction of the arrow



# TECHNICAL DATA

Models	RP-2165 RP-2166
Connection voltage:	AC 120V~ and DC 12V
Gross capacity	170L 6.00cu.ft
Refrigerator compartment	130L 4.59cu.ft
Ice compartment	40L 1.41cu.ft
Power consumption AC 230V~ DC 12V	325W 275W
Energy consumption	
Gas consumption	40g/h
Gas pressure	2.75Kpa
Refrigerator type	R717
Climate class	N or T
Dimensions(W*H*D)mm:	1355*595*612
Weight(kg):	61
Inspection / certification	CE /CSA

# TROUBLESHOOTING

<b>Fault</b>	<b>Possible cause</b>	<b>Suggested remedy</b>
<b>With AC operation:</b> The refrigerator does not work.	The fuse in the AC mains is defective.	Replace the fuse.
	The vehicle is not connected to the AC mains.	Connect the vehicle to the AC mains.
	The AC heating element is defective.	Contact the authorized customer service.
<b>With DC operation:</b> The refrigerator does not work.	The fuse in the DC supply is defective.	The fuse on the relay must be replaced. Contact the authorized customer service.
	The vehicle fuse has blown.	Replace the vehicle fuse.(Please refer to the operating manual of your vehicle.)
	The vehicle battery is discharged.	Test the battery and charge it.
	The ignition is not turned on.	Switch on the ignition.
	The DC heating element is defective.	Contact the authorized customer service.
<b>With gas operation:</b> The refrigerator does not work	The gas cylinder is empty.	Replace the gas cylinder.
	The gas valve is closed.	Twist the valve open.
	Air is in the supply line.	Switch the refrigerator off and on again. Repeat the procedure three or four times if necessary. If available, switch on the stove and repeat the process with the refrigerator if necessary.
<b>In automatic mode:</b> The refrigerator is being operated with gas although it is connected to the AC mains	The mains voltage is too low.	The refrigerator changes to AC power supply automatically as soon as the mains voltage is sufficient again.
The refrigerator is not adequately cooling	The ventilation around the cooling unit is not sufficient.	Check that the ventilation grill is not obstructed.
	The evaporator is iced up.	Check whether the refrigerator door is properly closed. Make sure that the refrigerator seal fits correctly and is not damaged. Defrost the refrigerator.
	The temperature is set too high.	Set a lower temperature.
	The ambient temperature is set too high.	Remove the ventilation grill for a while so that warm air can escape quicker.
	Too much food as once was placed in the refrigerator.	Remove an item
	Too much warm food at once was placed in the refrigerator.	Remove the warm food and leave it to cool down before putting it in again.
	The refrigerator has not been operating for very long.	Check the temperature again after four or five hours.

# FAULT MESSAGES

Fault indication		Fault Description
CHECK Light	COLDEST Light	
○	◎●●●●	Solenoid valve drive circuit break, Solenoid valve monitoring circuit failure, Solenoid valve short circuit.
	●◎●●●	Solenoid valve drive circuit short, Solenoid valve monitoring circuit failure.
	●●◎●●	Mainboard auxiliary power supply/relay failure, Or its monitoring circuit failure
	●●●◎●	The flame detection circuit has failed. The flame signal has been detected before the solenoid valve is opened
	●●●●◎	Thrice 45-second igniters failed to ignite
◎	◎●●●●	The temperature sensor open or short circuit
	●◎●●●	AC relay is open, or its drive circuit is short, or its monitoring circuit fails
	●●◎●●	AC relay short circuit, or its drive circuit open, or its monitoring circuit failure
	●●●◎●	DC relay is open, or its drive circuit is short, or its monitoring circuit fails
	●●●●◎	DC relay short circuit, or its drive circuit open, or its monitoring circuit failure

Note: ○ indicator light up

◎ indicator light flash

● indicator light out

COLDEST indicator light will be show fault status when keep pressing coldest key.

-Contact customer service if you cannot remedy the fault yourself.

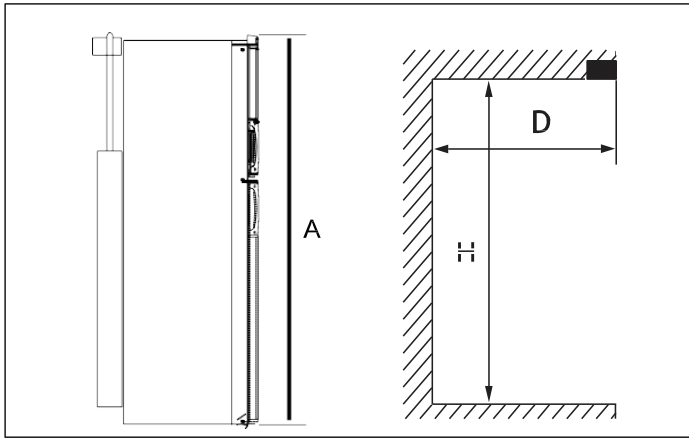
# APPENDIX A

## OVERALL & ROUGH IN DIMENSIONS

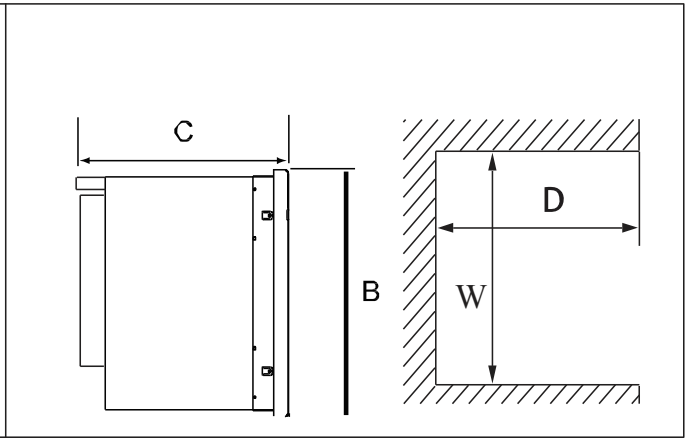
MODEL	OVERALL DIMENSIONS			ENCLOSURE DIMENSIONS		
	Height (A)	Width (B)	Depth (C)	Height (H)	Width (W)	Depth (D)*
RP-2165	53-3/8	23-7/16	24-7/32	53-7/8	23-7/8	24-7/32
RP-2166	53-3/8	23-7/16	24-7/32	53-7/8	23-7/8	24-7/32

\*The depth (D) is flush with door panel and the side of cabinet

SIDE



ABOVE



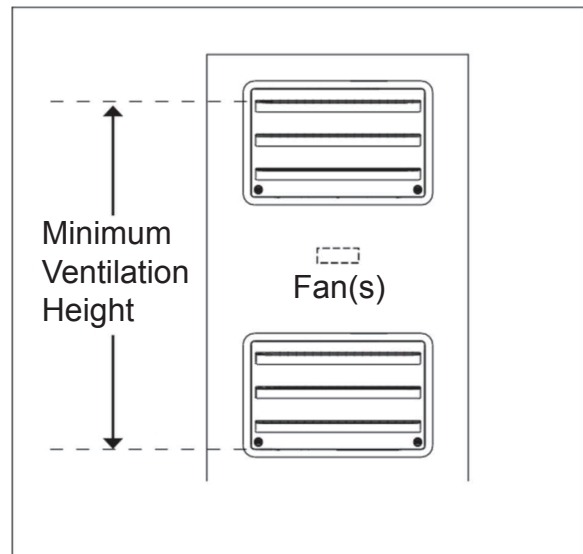
# APPENDIX B

## MINIMUM VENTILATION HEIGHTS

MINIMUM VENTILATION HEIGHTS	
B1 = UPPER & LOWER SIDE VENT	
RP-2165 / RP-2166	56-1/2"

**NOTE!** Ventilation height should be measured from the seam between the frame and door of the lower side wall vent to the top of the uppermost row of louvers on the upper side wall vent (B1).

B1: UPPER & LOWER SIDE VENT



# **APPENDIX C**

## **OPTIONAL VENT INSTALLATION**

- **APPLY DRY SEALANT AROUND THE SURFACE MOUNTING FACE OF ALL VENT FRAMES OR VENT BASES PRIOR TO INSTALLATION.**
- **APPLY WET SEALANT AROUND THE PERIMETER OF ALL VENT FRAMES OR VENT BASES AFTER INSTALLATION. ENSURE THAT THE SEALANT DOES NOT BLOCK THE MOLDED WEEP TRACKS IN THE VENT FRAME.**

### **20" UPPER AND LOWER SIDE VENT- SKU: 3109492**

1. Place vent over 9½"x 19⅛" rough opening.
2. Secure vent using 10 screws.

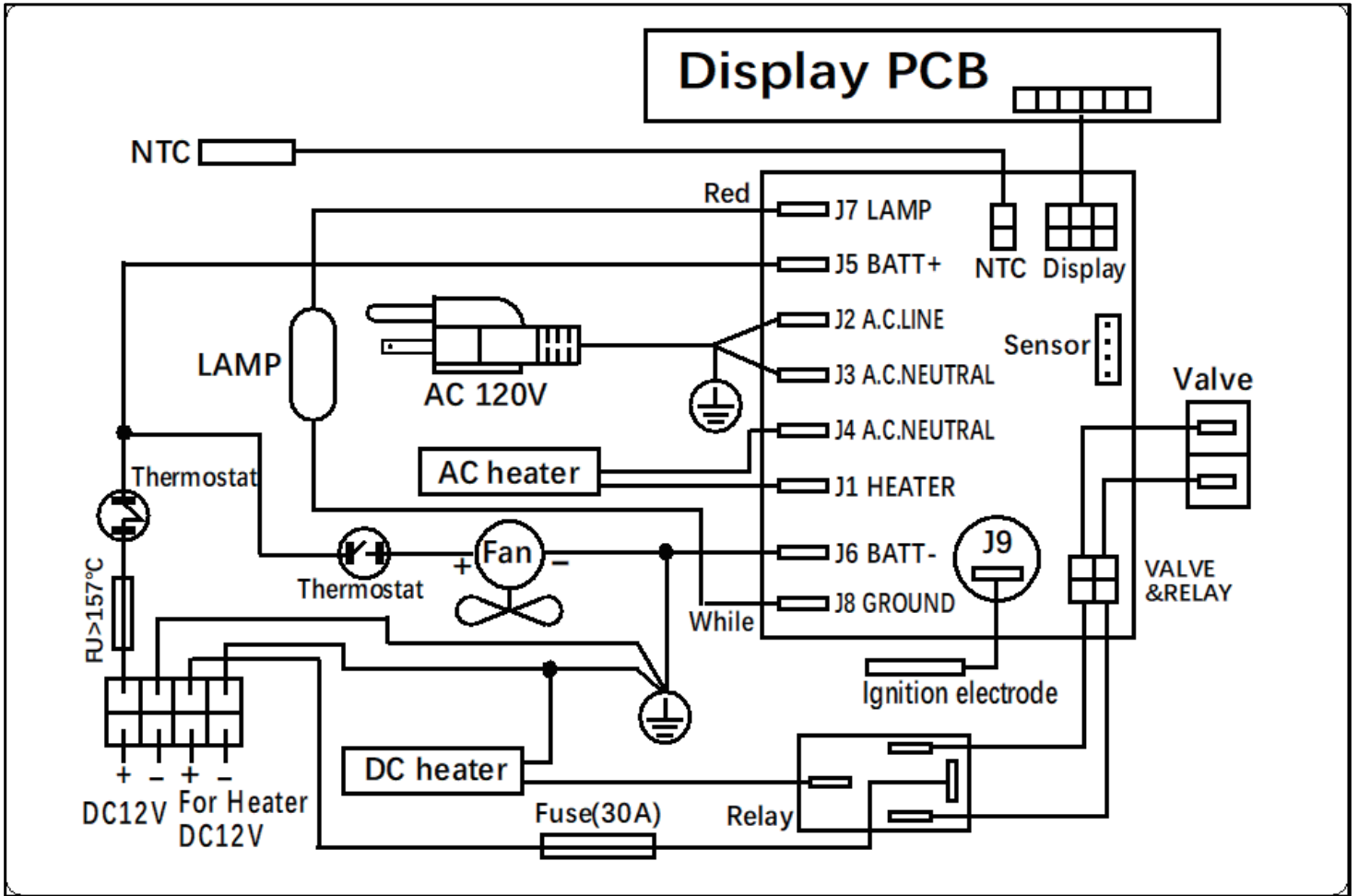
### **24" UPPER AND LOWER SIDE VENT- SKU: 3109350**

1. Place vent over 13¾"x 21½" rough opening.
2. Secure vent using 10 screws.



# APPENDIX D

## WIRING DIAGRAM



**REC PRO**®

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Bristol, IN 46507  
**(574) 848-0405**  
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