



**ACCOMPANIES YOU.**

## **Installation Manual**

**For Australian refrigerator model:**

**N614E.3F (184 L (approx) 3-way operation with LP gas, 240 volts AC, or 12 volts DC )**



**Improper installation, adjustment, alteration, service or maintenance can cause personal injury or property damage. Refer to this manual. For assistance or additional information, contact a qualified installer, service agency, or the LP gas supplier.**

### **FOR YOUR SAFETY**

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

### **FOR YOUR SAFETY**

**If you smell gas:**

- 1. Open windows.**
- 2. Don't touch electrical switches.**
- 3. Extinguish any open flame.**
- 4. Immediately call your gas supplier.**



**DO NOT install this refrigerator in below deck marine applications. Do not install this refrigerator in fixed indoor cabin or other dwelling applications. This refrigerator must use only Thetford designed and approved outside air intake and exhaust ventilation for correct and safe operation. Any other ventilation could cause lethal combustion exhaust fumes and/or explosive LP gas fumes to be in the living area and/or to be below deck.**

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## Safety Awareness

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Read this manual carefully and understand the contents before you install the refrigerator.

Be aware of possible safety hazards when you see the safety alert symbol on the refrigerator and in this manual. A signal word follows the safety alert symbol and identifies the danger of the hazard. Carefully read the descriptions of these signal words to fully know their meanings. They are for your safety.



This signal word means a hazard, which if ignored, can cause dangerous personal injury, death, or much property damage.



This signal word means a hazard, which if ignored, can cause small personal injury or much property damage.

## Safety Instructions

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- This refrigerator is made for use in RV and towable applications, and is correct for camping use. It is made to operate with, and be connected to, multiple energy sources. Disconnect all energy sources before you remove the refrigerator or do servicing to the refrigerator.
- This refrigerator is not approved for use as a free standing refrigerator. It is equipped for the use of LP gas only and can not be changed to use natural gas.
- Incorrect installation, adjustment, alteration, or maintenance of this refrigerator can cause personal injury, property damage, or both.
- Obey the instructions in this manual to install the intake and exhaust vents.
- Do not install the refrigerator directly on carpet. Put the refrigerator on a metal or wood panel that extends the full width and depth of the refrigerator.
- Do not allow anything to touch the refrigerator cooling system.

- LP gas can ignite and cause an explosion that can result in property damage, personal injury, or death. Do not smoke or create sparks. Do not use an open flame to examine the LP gas supply line for leaks. Always use two wrenches to tighten or loosen the LP gas supply line connections.
- Make sure the electrical installation obeys all applicable codes. See “Certification and Code Requirements” section.
- Do not bypass or change the refrigerator’s electrical components or features.
- Do not spray liquids near electrical outlets, connections, or the refrigerator components. Many liquids are electrically conductive and can cause a shock hazard, electrical shorts, and in some cases fire.
- The refrigerator cooling system is under pressure. Do not try to repair or to recharge a defective cooling system.
- The cooling system contains sodium chromate. The breathing of certain chromium compounds can cause cancer. The cooling system contents can cause severe skin and eye burns, and can ignite and burn with an intense flame. Do not bend, drop, weld, move, drill, puncture, or hit the cooling system.



- The rear of the refrigerator has sharp edges and corners. To prevent cuts or abrasions when working on the refrigerator, use caution and wear cut resistant gloves.

## Certification and Code Requirements

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This refrigerator is certified under the latest edition of the Australian Gas Association Standard AS4555/AG105 and the Australian National Electric Standard for household and similar electrical appliances AS/NZS 3350.1.

The refrigerator is made for installation in a caravan or a recreational vehicle. The installation must obey the requirements of this “installation Manual” for the THETFORD limited warranty to be in effect.

The installation must agree with local codes. In the absence of local codes, the installation must obey these standards:

- Gas Installations AS5601.
- National Fuel Gas Code, ANSI Z223.1 (latest edition).
- Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280.
- Standard for Recreational Vehicles, RVIA A119.2 latest edition.
- All gas supply piping and fittings must obey local, and national codes about type and size.

## Ventilation Requirements

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The completed installation must:

- Make sure there is sufficient intake of fresh air for combustion.
- Make sure the living space is completely isolated from the combustion system of the refrigerator.
- Make sure there is complete and unrestricted ventilation of the flue exhaust which, in gas mode, can produce carbon monoxide. The breathing of carbon monoxide fumes can cause dizziness, nausea, or in extreme cases, death.
- Make sure the refrigerator is completely isolated from its heat generating components through the correct use of baffles and panel construction.

Certified installation needs one lower intake vent and one upper exhaust vent. Install the upper exhaust vent either through the roof or through the side wall of the vehicle exactly as written in this manual. Any other installation method voids both the certification and the factory warranty of the refrigerator.

The bottom of the opening for the lower intake vent, which is also the service access door, must be even with or immediately below the floor level. This allows any leaking LP gas to escape to the outside and not to collect at floor level.

While there are no maximum clearances specified for certification, the following clearances are necessary for correct refrigeration:

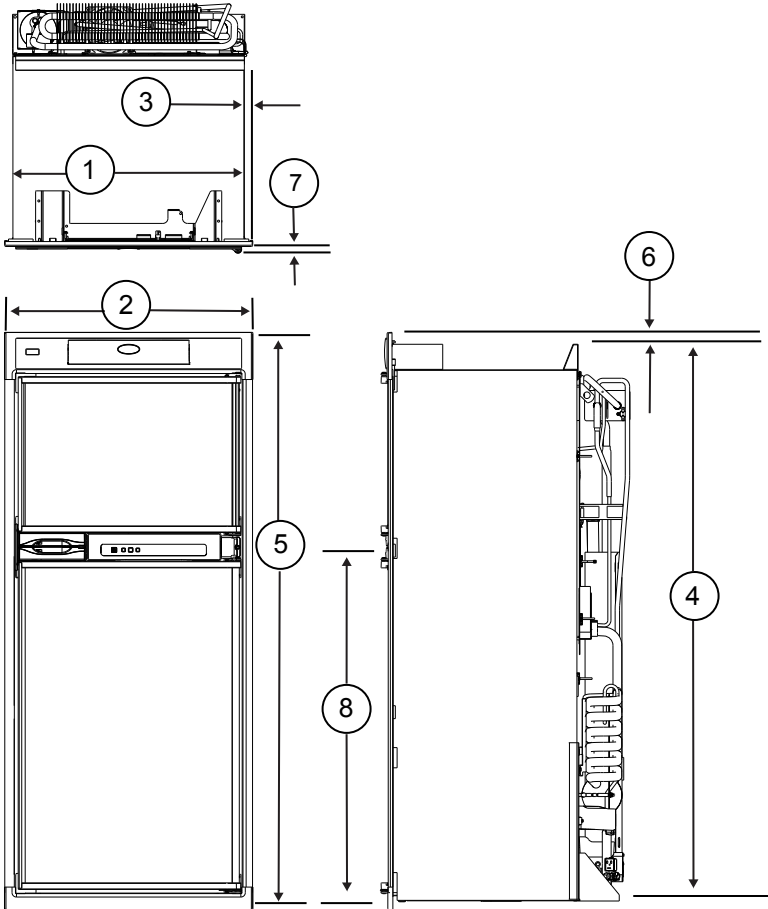
|           |          |           |
|-----------|----------|-----------|
| Bottom    | 0mm min. | 0mm max.  |
| Each Side | 0mm min  | 3mm max.  |
| Top       | 0mm min. | 6mm max.  |
| Rear      | 0mm min. | 25mm max. |

These clearances plus the lower and upper vents cause the natural air draft that is necessary for good refrigeration. Cooler air comes in through the lower intake vent, goes up around the refrigerator coils where it removes the excess heat from the refrigerator components, and goes out through the upper exhaust vent. If this air flow is blocked or decreased, the refrigerator will not cool correctly.

### Key Refrigerator Dimensions

These key refrigerator dimensions are for your reference as necessary (See Art02444).

- Refrigerator cabinet width w/o trim: 583mm.....1
- Refrigerator width overall w/ trim: 624.8mm. ....2
- Refrigerator cabinet to side trim: 21mm .....3
- Refrigerator cabinet height w/o trim: 1407mm max.....4
- Refrigerator height overall w/ trim: 1454mm .....5
- Refrigerator cabinet to top trim: 30mm .....6
- Enclosure wall to hinges: 27.9mm .....7
- Refrigerator cabinet to center of handles: 891mm .....8



Art02444

## Assemble the Enclosure

1. Make sure the enclosure is: 1415mm high x 600mm wide x 610mm deep.
2. Make sure the floor is solid and level.
  - The floor must be metal or a wood panel and extend the full width and depth of the enclosure.
  - The floor must be able to support the weight of the refrigerator and its contents.
3. Make sure there are no adjacent heat sources such as a furnace vent, a hot water heater vent, etc.
4. If there is more than 13 mm between either side of the refrigerator and the inside of the enclosure:
  - Fill the space with fiberglass insulation or add a baffle to eliminate the excess clearance.
  - Make sure that the rear of the batt-type insulation is between 455 - 485 mm from the face of the enclosure.
  - Securely attach the batt-type insulation to the enclosure so that it remains in this position during refrigerator installation, if it becomes wet, and in windy conditions.

## Install the Lower and Upper Vents

1. Using the following chart, decide which vents and rough opening (RO) sizes to use:

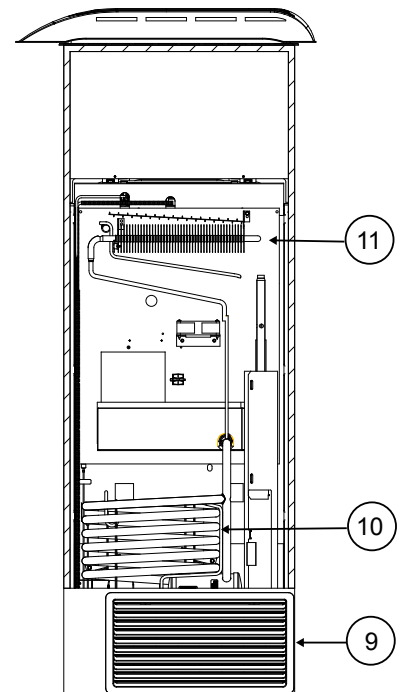
| Certified Vent                                                              | P/N    | RO Height | RO Width |
|-----------------------------------------------------------------------------|--------|-----------|----------|
| Upper Roof Exhaust Cap                                                      | 622293 | N/A       | N/A      |
| Upper Roof Exhaust Vent                                                     | 616319 | 610mm     | 133mm    |
| Upper Exhaust and lower Intake Side Vent                                    | 631140 | 249mm     | 490mm    |
| Upper Side Exhaust Vent                                                     | 631247 | 156mm     | 450mm    |
| Flue Extension kit<br>(Use with 631247 exhaust vent)                        | 637085 | N/A       | N/A      |
| Independent Flue Kit<br>(use with 631140 exhaust vent or with roof exhaust) | 636974 | N/A       | N/A      |

2. Install the lower intake vent (See Art02264, Art02265, and Art02266):

**NOTICE** The lower intake vent is also the service access opening for the components on the rear of the refrigerator.

**WARNING** Make sure the bottom of the opening of the lower intake vent is even with or immediately below the floor level. This allows any leaking LP gas to escape to the outside and not to collect at floor level.

- Make sure the bottom of the opening of the lower intake vent [9] is even with or immediately below the floor level.
- Align the right edge of the lower intake vent with the right edge of the refrigerator cabinet as viewed from the rear.



Art02266

3. Install the upper exhaust vent:

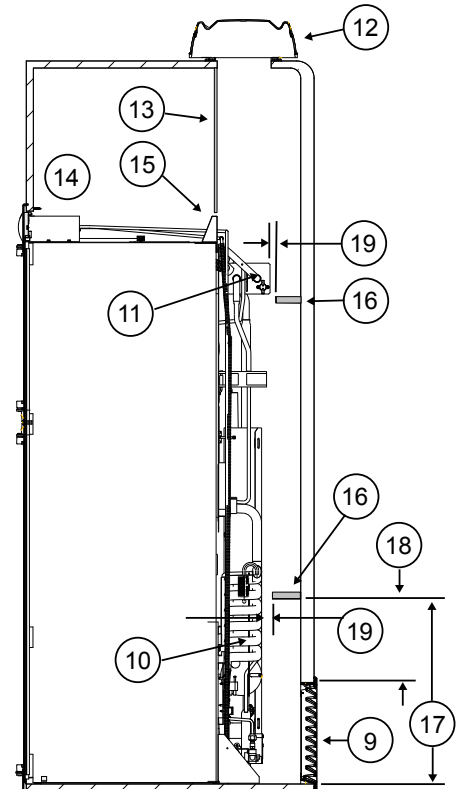


**Make sure that no sawdust, insulation, or other construction debris is on the refrigerator or in the enclosure. Debris can cause a combustion hazard and prevent the refrigerator from operating correctly.**

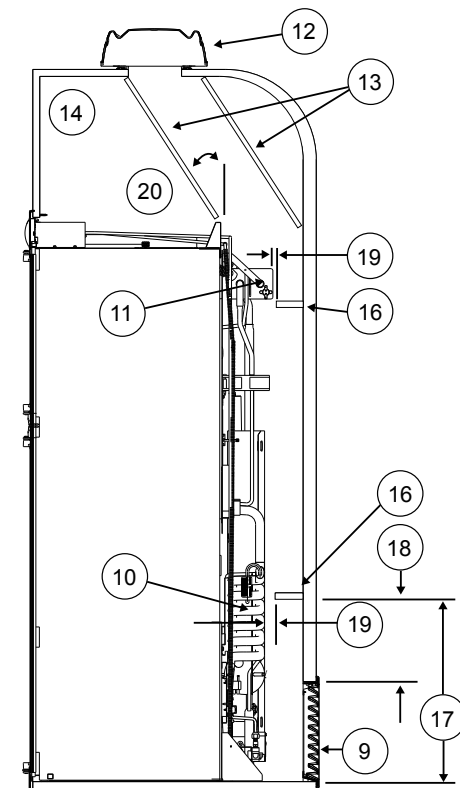
**NOTICE**

*Tighten the screws of the upper roof exhaust cap to 11.5kgf/cm. Also make sure that the air flow around the upper roof exhaust cap is not blocked or decreased by other roof mounted features such as a luggage carrier, an air conditioner, a solar panel, etc.*

- If the design of the vehicle allows, install the roof exhaust vent [12] directly above the condenser [11] of the refrigerator (See Art02264).
- Install a baffle [13] to prevent stagnant hot air in the area [14] above the refrigerator.
  - Make sure there is less than 6mm clearance [15] between the baffle and the top of the refrigerator.
  - Make sure the baffle is the full width of the inside of the enclosure.
- If the design of the vehicle does not allow you to install the roof exhaust vent directly above the condenser [11] of the refrigerator (See Art02265).
  - Align the roof exhaust vent [12] above the condenser [11] of the refrigerator and move it inboard as necessary.
  - Install two baffles [13] to prevent stagnant hot air in the area [14] above the refrigerator.
    - Make sure the baffles are the full width of the inside of the enclosure.
    - Make sure that the baffles are no more than 45° from vertical [20].
    - Put one baffle between the top rear edge of the refrigerator and the inside edge of the upper exhaust vent opening.
    - Put the other baffle between the outside edge of the upper exhaust vent opening and the side wall of the vehicle.
- If the depth of the enclosure is less than 635mm, no baffles are necessary at the rear of the enclosure.
- If the depth of the enclosure is 635mm or more and is less than 660mm, add two baffles [16] to the rear of the enclosure (See Art02264 and Art02265).
  - Put one baffle 455mm to 470mm above the bottom of the enclosure [17] (205mm to 220mm above the top of the lower intake vent opening REF) [18].
  - Put the other baffle at the lowest edge of the condenser [11] of the refrigerator.
    - Make sure that the baffles are 25mm or less [19] from the coils [10] and condenser of the refrigerator.
    - Make sure that the baffles are the full width of the inside of the enclosure.



Art02264



Art02265

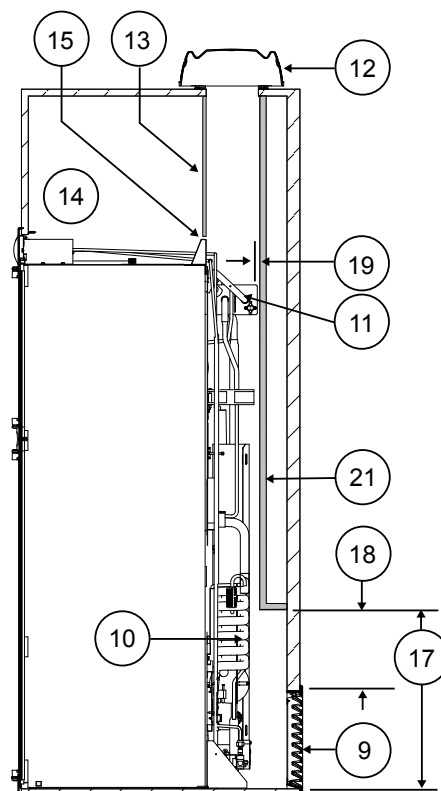
- If the depth of the enclosure is more than 660mm, install a wood or an aluminum or galvanized sheet solid box baffle [21] in the rear of the enclosure (See Art02267 and Art02268).
- Make sure that the bottom of the solid box baffle is 455mm to 470mm above the bottom of the enclosure [17] (205mm to 220mm above the top of the lower intake vent opening REF) [18] .
- Make sure that the back of the solid box baffle is perpendicular to the bottom of the enclosure.
- Make sure that the back of the solid box baffle is either against the top of the enclosure or against the angled baffle [13] (depending on the vehicle design).
  - Make sure that the solid box baffle is 25mm or less [19] from the coils [10] and condenser [11] of the refrigerator.
  - Make sure that the solid box baffle is the full width of the inside of the enclosure.
- If installing a roof exhaust, it is the responsibility of the OEM / installer to either ensure the flue enclosure conforms to AS5601 or install an independent flue kit, per instructions in kit.
- If the design of the vehicle does not allow you to install a roof exhaust vent, install an upper side-wall exhaust vent.

**NOTICE** The refrigerator is 602mm to 610mm max. from the rear of the breaker to the rear of the condenser [22] and 1196mm to 1204mm max. from the bottom of the refrigerator to the bottom of the refrigerator condenser [23] (See Art01601).

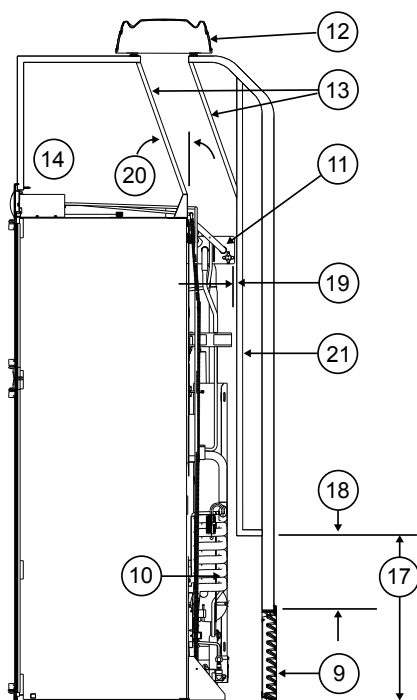


**Only use an upper side-wall exhaust vent on refrigerator models that are equipped with a fan. If you use an upper side-wall exhaust vent on a refrigerator model that is not equipped with a fan, the refrigerator cooling performance will be poor.**

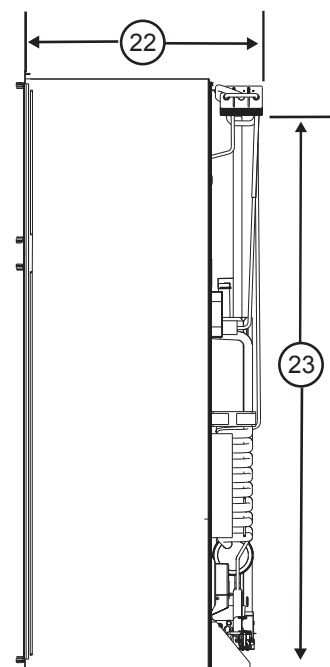
- Make sure the refrigerator model is equipped with a fan.



Art02267



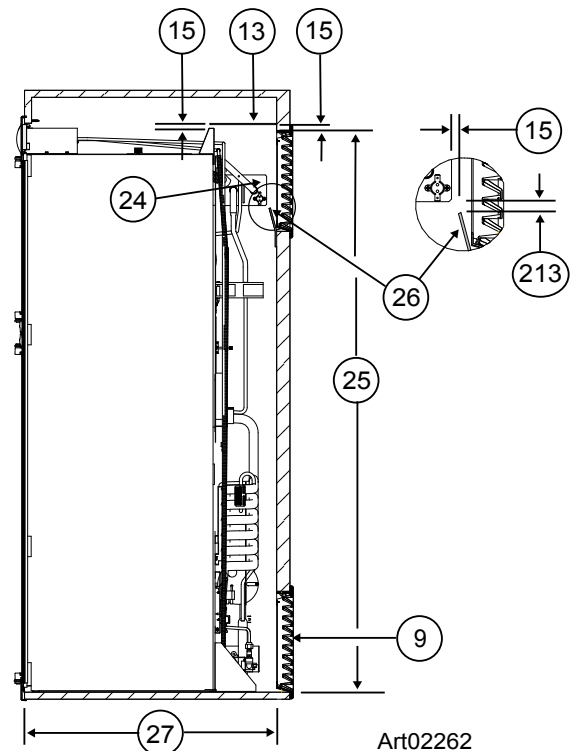
Art02268



Art01601

- Install the upper side-wall exhaust vent [24] (See Art02262 and Art02263).

- Make sure the distance [25] from the bottom of the enclosure to the top of the rough opening for the upper exhaust vent is at least 1400mm.
- Align the upper exhaust vent [24] horizontally above the lower intake vent [9] of the refrigerator.
- To prevent stagnant hot air in the area above the refrigerator, install an aluminum or galvanized steel sheet baffle [13] between the top of the refrigerator and the top of the upper exhaust vent.
  - Make sure there is less than 6mm clearance [15] between the baffle and the top of the refrigerator and that the baffle overlaps the refrigerator 25mm or less.
  - Make sure that the baffle is against the wall of the vehicle at the top of the upper exhaust vent and 6mm or less [15] from the top of the opening for the upper exhaust vent.
  - Make sure the baffle is the full width of the inside of the enclosure.



Art02262

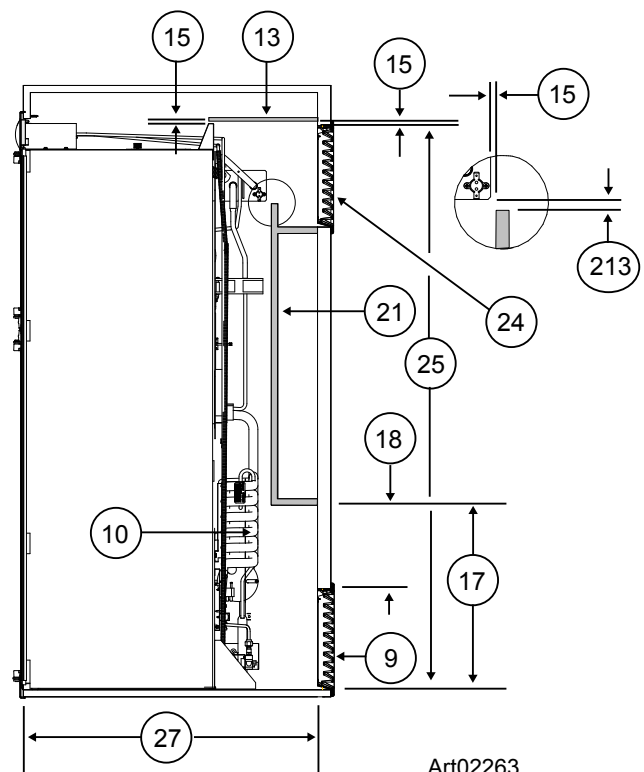
- When using an upper side-wall exhaust vent:

- If the depth of the enclosure is 610mm or more and is less than 660mm [27], install a bent aluminum or galvanized steel sheet baffle [26] to the rear of the enclosure (See Art02262).

- Make sure that the bend of the baffle is the full width of the inside of the enclosure.
- Make sure that the bend of the baffle is flush with the bottom edge of the upper intake vent door frame.
- Make sure that the top edge of the baffle is 6mm [213] below the bottom of the condenser and that there is 6mm or less clearance [15] between the rear of the condenser and the baffle.

- If the depth of the enclosure is more than 660mm [27], install a wood or an aluminum or galvanized steel sheet solid box baffle [21] between the lower intake vent and the upper exhaust vent (See Art02263).

- Make sure that the solid box baffle is the full width of the inside of the enclosure.
- Make sure that the bottom of the solid box baffle is 455mm to 470mm above the bottom of the enclosure [17] (205mm to 220mm above the top of the lower intake vent opening REF) [18] .
- Make sure that the back of the solid box baffle is perpendicular to the bottom of the enclosure.
- Make sure that the horizontal top of the solid box baffle is even with the bottom edge of the upper exhaust vent [24]



Art02263

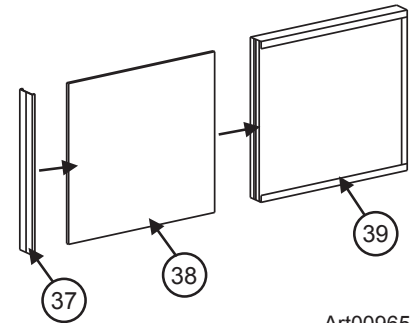
- Make sure that the vertical top edge of the baffle is between 6mm [213] below the condenser and 38mm above the bottom of the condenser.
- Make sure that there is 6mm or less clearance [15] between the rear of the condenser and the baffle.
- Install a flue extension kit per instructions in kit or an independent flue kit per instructions in kit.

## Install Decorative Door Panels

### NOTICE

*The doors are made to accept decorative panels. The decorative panels must be 5mm or less in thickness. Install the decorative door panels in the refrigerator doors before installing the refrigerator in the vehicle.*

- Make an upper door panel that is 548mm wide x 369mm high.
- Make a lower door panel that is 548mm wide x 803mm high.
- Pull the panel retainer [37] off each door (See Art00965).
- Push the decorative door panel [38] into the slots of the door [39].
- Push each panel retainer into the slot on the edge of the door.



## Install the Refrigerator

Put the refrigerator in position (See Art02445, Art02442, and Art02272):



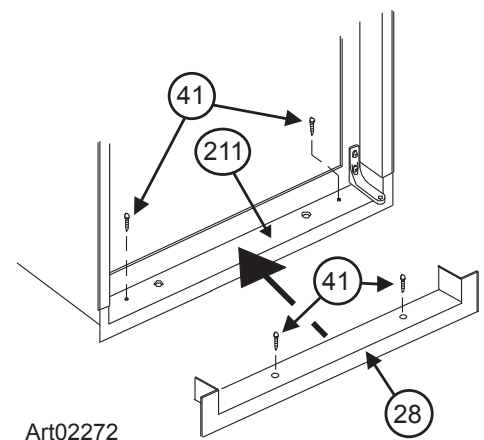
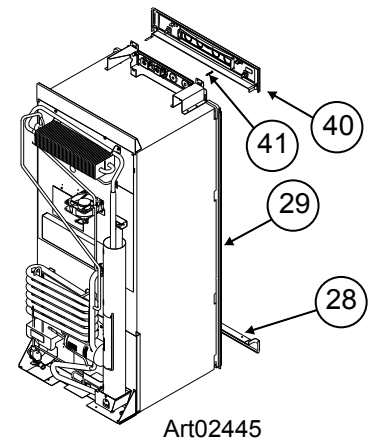
**Make sure the combustion seal [29] is not broken, is completely around the refrigerator mounting flanges, and is between the mounting flanges and the wall of the enclosure. If the seal is not complete, exhaust fumes can be present in the living area of the vehicle. The breathing of exhaust fumes can cause dizziness, nausea, or in extreme cases, death.**

- Push the refrigerator completely into the enclosure.
- Put two screws [41] through the upper mounting flange on the front of the refrigerator and into the enclosure wall.
- Put two screws [41] through the lower mounting flange [211] on the front of the refrigerator and into the enclosure floor.

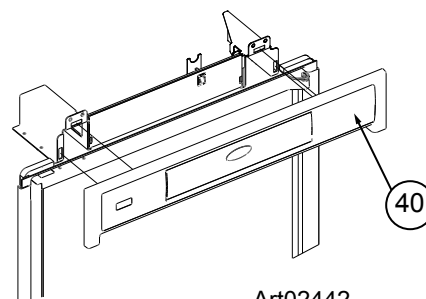


**Do not omit the bottom trim piece. This piece is part of the combustion seal.**

- Push the bottom trim piece [28] onto the front of the refrigerator.
- Put two screws [41] through the bottom trim piece, the mounting flange, and into the floor.
- Put two screws through mounting flange on the rear of the refrigerator and into the floor.



- Install the upper trim piece [40] over the control panel:
- Align the four (4) metal mounting clips on the back of the upper trim piece with the four (4) rectangular slots in the mounting bracket of the refrigerator.
- Push the upper trim piece firmly until all four (4) mounting clips engage the rectangular slots with a "snap" sound.



Art02442

## Reverse the Door Swing

This refrigerator has cabinet hinges that allow you to change the direction the door opens by moving the hinges on a diagonal to the opposite side.

### 1. Remove the doors (See Art02269):

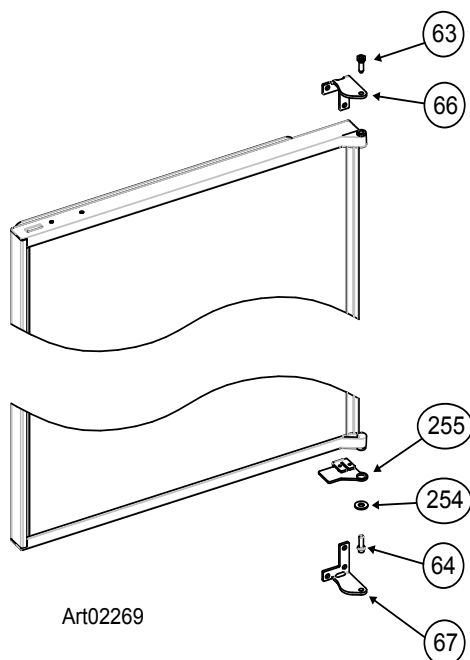
- Remove the storage bins from the doors.

**NOTICE** Do not mix the upper and lower hinge pins because they are different.

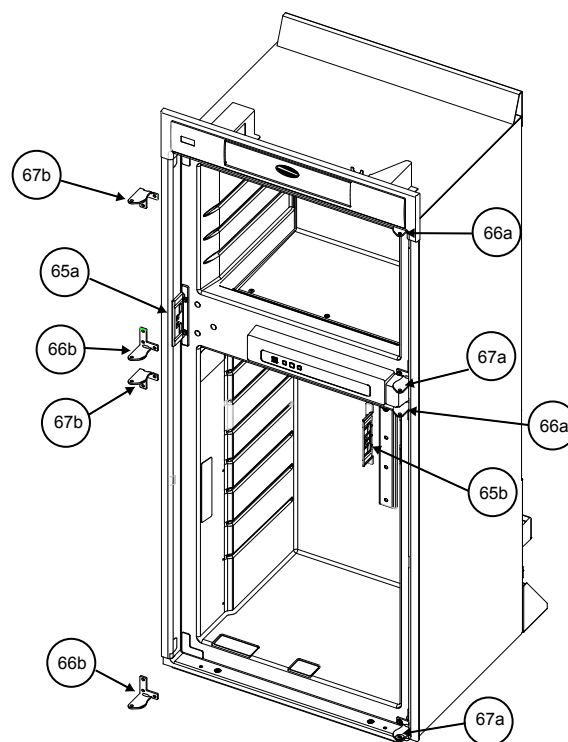
- Remove and save the upper hinge pin [63] from each door.
- Pull the door latch and remove each door from the refrigerator.
- Remove and save the lower hinge pin [64] from each hinge.
- Remove the washer [254] and the RH lower hinge support [255] from the lower door.

### 2. Change the position of the cabinet hinges, strike plate and controls. (See Art02443):

- Remove and save the screws from the strike plate [65a].

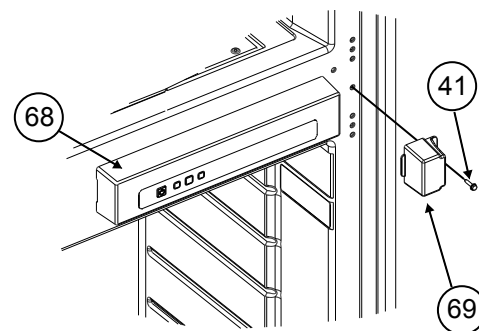


Art02269

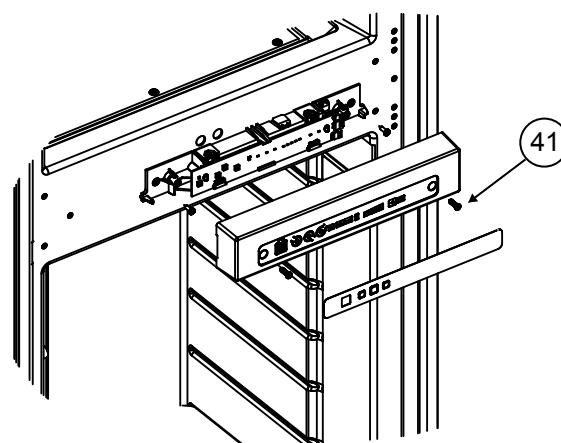


Art02443

- Remove the three plastic hole caps that are near the strike plate.
- Remove the L-shaped plastic covers that are opposite the hinges.
- Remove and save the screws from the upper cabinet hinge [66a] of each door.
- Put each of these hinges on the other side of the refrigerator as the lower hinge [66b].
- Attach each of these hinges with screws.
- Remove and save the screws from the lower cabinet hinge [67a] of each door.
- Put each of these hinges on the other side of the refrigerator as the upper hinge [67b].
- Attach each of these hinges with screws.
- Remove and save the screw [41] from the control end cap.
- Pull the control end cap away from the refrigerator and out from under the control housing.
- Carefully pull the button label from the front of the control housing and set it aside. (See Art02459)
- Remove and save the two (2) screws from the control housing.
- Pull the control housing away from the display board assembly and set the control housing aside.
- While holding the display board assembly, remove and save the two (2) screws from the display board assembly.
- Move the display board assembly to the same hole position on the opposite side of the refrigerator.
- Attach the display board assembly to the refrigerator using two (2) screws.



Art02446



Art02459

**NOTICE** Make sure that you do not pinch any wires and or loosen any connectors from the display board.

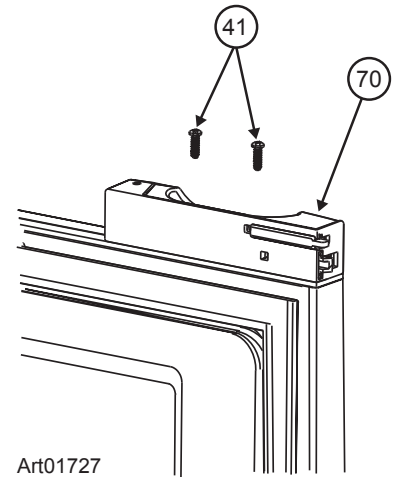
- Align the holes of the control cover with the mounting holes on the display board assembly.
- Attach with two (2) screws.

**NOTICE** Make sure that you do not pinch any wires.

- Align the button label with the recess in the control housing and press it into position.
- Put the strike plate on the opposite side of the refrigerator [65b].
- Put the three round plastic caps into the holes that are near the strike plate.
- Put the L-shaped plastic covers over the holes that were used by the hinges.

3. Change the position of the door handles (See Art01727):

- Remove the screws [41] and door handle [70] from each door.
- Reverse each door handle and put the lower door handle on the upper door and the upper door handle on the lower door.
- Attach each door handle with the screws.



4. Reinstall the doors (See Art02273):

**NOTICE** Turn the doors 180° from their original position.

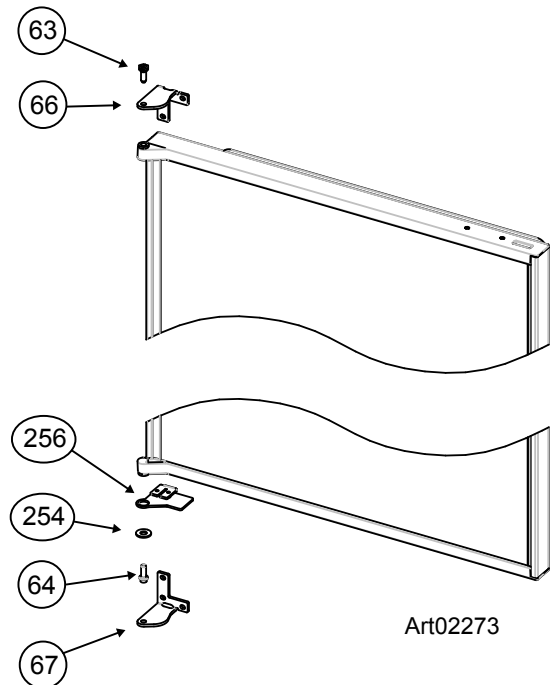
- Turn each of the lower hinge pins [64] into the lower cabinet hinges.

**NOTICE** To prevent damage to the threads of the hinge pins, turn the hinge pins by hand until tight and then tighten with a screwdriver.



**Apply Loctite removable thread locker (blue) to the threads of the hinge screws before assembly to prevent loosening during use. Do not allow Loctite to contact any of the plastic surfaces of the refrigerator because it can damage those surfaces.**

- Put the washer onto the lower hinge pin of the lower door only
- Put the LH lower hinge support [256] onto the lower hinge of the lower door only.
- Put each door down onto the lower hinge pin.
- Align the holes in the upper hinges and hold in this position.
- Turn the upper hinge pin into the hinges of each door.
- Tighten the hinge pins.
- Put the storage bins in the doors.



## Connect the Electrical Components

---

The current draws are nominal values.

|               |                                |                                        |
|---------------|--------------------------------|----------------------------------------|
| AC Operation  |                                | 240 VAC (216 VAC min. - 264 VAC max.)  |
| Current Draw: | AC heater                      | 1.25 A at 240 VAC                      |
| DC Operation  |                                | 12 VDC (11.5 VDC min. - 15.4 VDC max.) |
| Current Draw: | DC Heater                      | 17.14 A at 12 VDC                      |
|               | Moisture Reduction heater      | 0.25 - 27A at 12 VDC                   |
|               | Cooling System Ventilation Fan | 0.31A at 12 VDC                        |

This refrigerator operates on both AC and DC electrical sources. Operation out of these limits may damage the refrigerator's electrical circuit parts and will void the warranty.



**The rear of the refrigerator cooling system has hot surfaces and sharp surfaces that can damage electrical wiring. Make sure that there is a good clearance between all electrical wiring and the cooling system of the refrigerator. Position any electrical wiring within the refrigerator enclosure opposite the burner side of the refrigerator. Do not put any electrical wiring through the roof exhaust vent. Failure to correctly position electrical wiring can result in electrical shock or fire.**

### Connect the 240 volt AC supply:



**Connect the AC power cord only to a grounded three-prong power point. Do not remove the earth pin from the power cord. Do not use a two-prong adapter or an extension cord. Operation of the refrigerator without correct ground can cause dangerous electrical shock or death if you are touching the metal parts of the refrigerator.**

Put the AC power cord into a grounded three-prong power point:

- Make sure the power point is 100-150 mm above the floor of the enclosure and is positioned within easy reach of the lower intake vent.
- Make sure the power cord does not touch the burner cover, the flue pipe, or any hot component that could damage the insulation of the power cord.

### Connect the 12 volts DC supply

As the distance from the vehicle battery to the refrigerator increases, the correct AWG wire size and fuse size also increases. If the wire size is too small for the distance, a voltage drop occurs. The voltage drop decreases the output of the system heater and causes poor cooling performance.



**If you use an incorrect wire size and/or fuse size, electrical fire can result.**

1. Determine the min. wire size and the max fuse size to use:

- Measure the distance from the vehicle battery to the refrigerator.
  - If the distance is 0 - 6 meters, use a minimum of 4mm<sup>2</sup> wire and a maximum 30 Amp fuse.
  - If the distance is over 6 meters, use a minimum of 6mm<sup>2</sup> wire and a maximum 40 Amp fuse.
  - If the wire size is larger than the min. size, use the correct fuse per RVIA A119.2 standard or local codes.

2. Install a fuse in DC power supply wires between the battery and the refrigerator:

- Put fuse as close to the battery as possible.

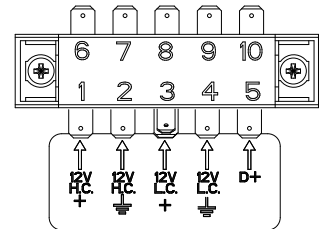
3. Connect the DC power supply wires:

These models have 2 connection points to prevent the battery from being discharged by the refrigerator when the engine is not running. The DC terminal block accepts 1/4" receptacles.

High current supply      Terminal six (6) red wire (+) and terminal seven (7) white wire (-) for heating element. Only turned on if signal on D+

Low current supply      Terminal eight (8) black wire (-) and terminal nine (9) purple wire (+) for electronics.

D+ signal      Terminal ten (10) orange, (+) when engine runs



Art02449

**NOTICE**

*Do not use the chassis of the refrigerator or the vehicle frame as one of the conductors. Attach the DC power supply wires only to the battery and the DC power cord of the refrigerator.*

## Connect the LP Gas Components

This refrigerator operates on LP gas at a pressure of 2.7 kPa LP gas. The refrigerator LP gas usage is 1.5 MJ/h.

**Connect the LP gas supply system:**



**Be very careful when working on or near the LP gas system.**

- Do not smoke or use an open flame near the LP gas system.
- Do not use an open flame to examine for leaks.
- Do not connect the refrigerator to the LP gas tank without a pressure regulator between them.
- To avoid a LP gas leak, always use two wrenches to tighten or loosen the LP gas supply line connections.
- Leaking LP gas can ignite or explode and result in dangerous personal injury or death.

Connect the LP gas supply line to the refrigerator:

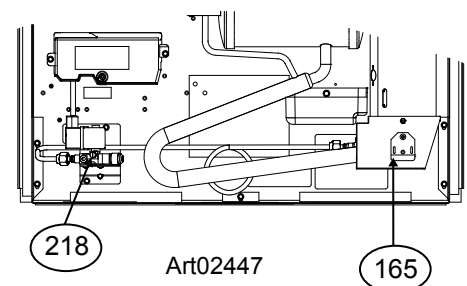
- Make sure all tubing and fittings obey all local, state, and national codes about size and type.
- Use of 3/8 inch copper tubing as the LP gas supply line and a 3/8 inch SAE (UNF 5/8-18) female flare fitting as the connection to the refrigerator.
- Put the LP gas supply line up through the floor of the enclosure.
- Make sure the hole through the floor is large enough to allow clearance for the gas supply line.
- Put a weather resistant seal (grommet, sealant, etc.) around the LP gas supply line where it goes through the floor to prevent vibration and abrasion.
- To prevent vibration and abrasion, make sure that the LP gas supply line is not against anything in the enclosure.
- Attach the LP gas supply line to the gas valve [218] of the refrigerator (See Art02447).

**Examine the LP gas supply system for leaks:**



**Do not allow the leak detecting solution to touch the electrical components. Many liquids are electrically conductive and can cause a shock hazard, electrical shorts, and in some cases, fire.**

Use a leak detecting solution to examine the LP gas supply line and all LP gas connections for leaks.



If you use compressed air for the test:

- The pressure at the gas valve of the refrigerator must not be more than 3.5 kPa.
- If the air pressure is more than 3.5 kPa, remove the gas supply line from the bulkhead fitting of the refrigerator before the test.
- If the air pressure is equal to or less than 3.5 kPa, close the gas valve of the refrigerator before the test.

## Operation Check

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The installer must make sure that the refrigerator is operating correctly. To determine if the refrigerator is operating correctly, refer to the "Operating the Refrigerator Controls" section of the Owner's Manual.

## Troubleshooting Refrigerator Problems

| Problem                                                                                 | Corrective Action                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The refrigerator does not operate on AC.                                                | Check: <ul style="list-style-type: none"><li>- That the refrigerator is plugged in.</li><li>- That the thermostat is turned to setting numbers 2-5. Setting number 1 is in OFF position in AC operation.</li><li>- That the selector switch is in the AC position.</li></ul>                                                                                                                      |
| The refrigerator does not operate on LP gas.                                            | Check: <ul style="list-style-type: none"><li>- That the LP gas supply line is purged.</li><li>- That the LP gas tank(s) is not empty.</li><li>- That the valve of the LP gas tank(s) is open.</li><li>- That the LP gas is at the correct pressure.</li><li>- That the manual shut off valve of the refrigerator is open.</li><li>- That the selector switch is in the LP gas position.</li></ul> |
| The refrigerator does not operate on DC.                                                | Check: <ul style="list-style-type: none"><li>- That the battery charging equipment of the vehicle is operational.</li><li>- That the AC/DC converter is operational (if applicable).</li><li>- That the DC connection to the refrigerator is tight.</li><li>- That the selector switch is in the DC position.</li><li>- See your dealer or authorized Thetford Service Center.</li></ul>          |
| The refrigerator does not cool correctly on AC, DC, or LP gas.                          | Check: <ul style="list-style-type: none"><li>- That the refrigerator vents are unobstructed and remove any obstructions.</li><li>- That the vehicle is level within 3° from side-to-side and 6° from front-to-back.</li></ul>                                                                                                                                                                     |
| Excessive frost collects in the freezer or on the fins in the refrigerator compartment. | Check: <ul style="list-style-type: none"><li>- That all food storage containers in the refrigerator are sealed.</li><li>- That you open the refrigerator door only when necessary.</li><li>- That the door gasket seals correctly.</li><li>- That the refrigerator and freezer are defrosted.</li></ul>                                                                                           |

If you are unable to correct your refrigerator problem after using this guide, see your dealer or an authorized Thetford Service Center.

