



Installation and Owner's Manual

For N3000 models with touchscreen



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 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 NORCOLD 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 propane gas fumes to be present in the living area and/or below deck.

English

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Owner's Manual

Safety Awareness

Read this manual carefully and understand the contents before you use 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



- The storage of flammable materials behind or around the refrigerator creates a fire hazard. Do not use the area behind the refrigerator to store anything, especially flammable materials (gasoline, cleaning supplies, etc.)
- Do not remove the round ground prong from any of the AC power cords. Do not use a two prong adapter or an extension cord with any of the AC power cords.
- A circuit overload can result in an electrical fire if the wires and/or fuses are not the correct size. Use only the wire and fuse sizes as written in the "Installation Manual".
- Incorrect installation, adjustment, change to, or maintenance of this refrigerator can cause personal injury, property damage, or both. Have service and maintenance work done by your dealer or by a Norcold authorized service center.
- Disconnect both the AC and DC power sources before doing any maintenance work on the refrigerator. All service work on this refrigerator must be done by a qualified service technician.
- Do not bypass or change the refrigerator's electrical components or features.
- When you discard an appliance, remove all doors to prevent accidental entrapment and suffocation.
- 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.
- At regular intervals, make sure that the refrigerator flue the burner, the vent areas, and the ventilation air pathway between the vents is completely free from any flammable material or blockage. After a period of storage, it is especially important to check these areas for any flammable material or blockage caused by animals.

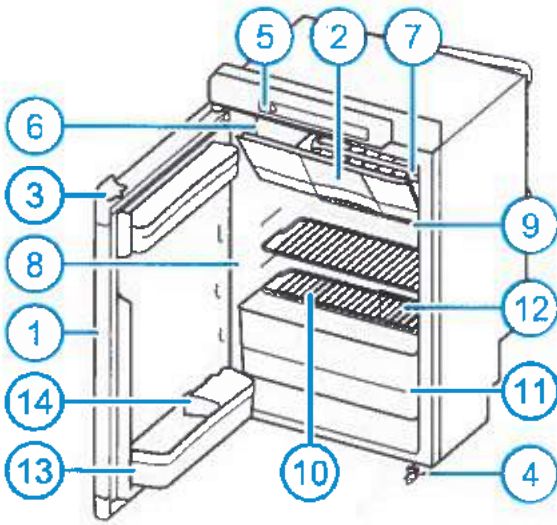


- The rear of the refrigerator has sharp edges and corners. To prevent cuts or abrasions when working on the refrigerator, be careful and wear cut resistant gloves.

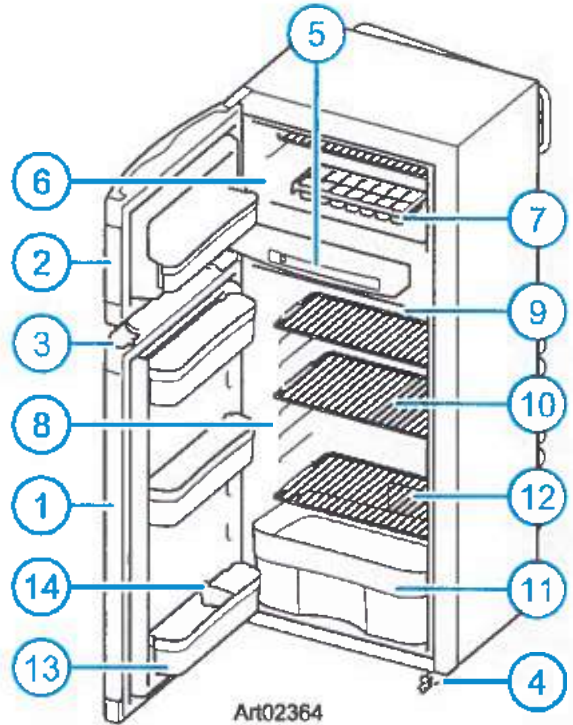
About Your Refrigerator

model N3104

model N3150



Art02363



Art02364

Refrigerator components

- 1.....Refrigerator door
- 2.....Freezer door
- 3.....Door lock
- 4.....Security lock (dependent on model)
- 5.....Control panel with LCD touchscreen
- 6.....Freezer compartment
- 7.....Ice cube tray
- 8.....Refrigerator compartment
- 9.....Cooling fins
- 10.....Storage shelves
- 11.....Vegetable bin
- 12.....Serial label
- 13.....Door bins
- 14.....Bottle retainer

Storage volume

This refrigerator is made for storage of foods and frozen food and for making ice.

Total capacity: model N3104 - 3.7 cubic feet model N3150 - 5.3 cubic feet

Leveling



The refrigerator is made to operate within 3° off level side-to-side and 6° off level front-to-back (as looking at the front of the refrigerator). Operating it at more than these limits can cause damage to the cooling system and create a risk of personal injury or property damage. Make sure the vehicle is level before you operate the refrigerator.

Operation during travel

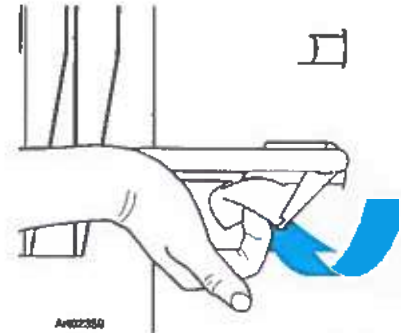
While the refrigerator should be level when the vehicle is stopped, performance during travel is not usually affected.

Use of refrigerator compartment

You can organize your refrigerator as desired by moving the storage shelves and door bins. Make sure the door can still be closed after reorganizing shelves and bins.

Moving storage shelves

Remove and save the screw below the plastic clamp on the right side of the storage. Turn the plastic clamp upwards, as illustrated. Lift the right side a bit, and move the storage shelf to the desired position. First place the left side of the storage shelf in the refrigerator wall, then the right side in the corresponding groove. Turn the plastic clamp downwards, and replace the screw underneath.



Moving door bins

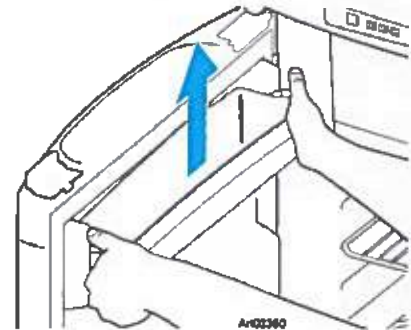
Push a door bin out of the locking with both hands, as illustrated. Place this door bin back in the desired position and push it back on the locking.

For the best cooling performance:

- Let air move freely inside the entire food compartment.
- Do not cover the shelves with plastic, paper, etc.

To decrease the amount of ice that collects on the cooling fins:

- Cover all liquids and moist foods.
- Let all hot foods cool before putting them in the refrigerator.
- Do not open the door any longer than necessary.



Freezer compartment

The freezer compartment is made to keep pre-frozen food frozen and not to quick freeze food. Keep pre-frozen foods in the freezer compartment.

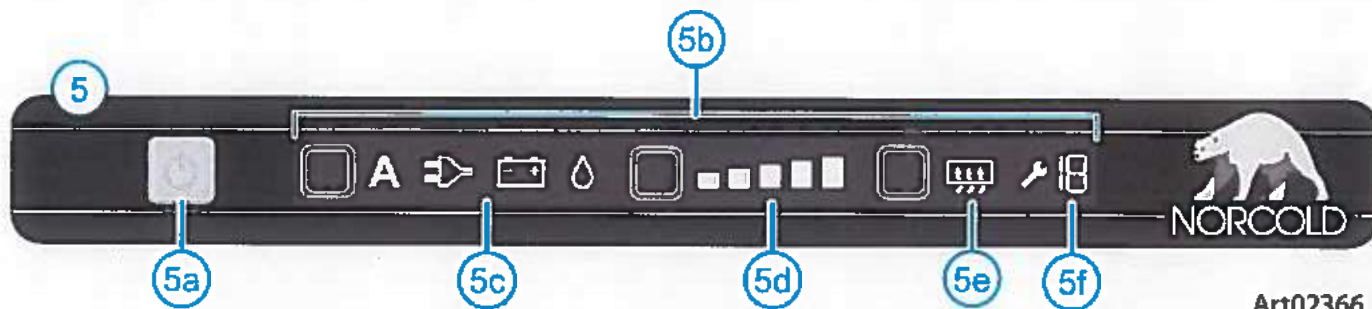
NOTICE

Do not put other items on the ice tray while the water is freezing. The water freezes more rapidly if the thermostat is at the COLDEST position.

NOTICE

Do not wash the vegetable bins, door bins, or bin slides in a dishwasher. The vegetable bins, door bins, and bin slides are not dishwasher safe.

Control Panel With Touchscreen



Art02366

5.....	Control panel with LCD touchscreen
5a.....	On/off switch
5b.....	Touchscreen
5c.....	Mode symbols
5d.....	Cooling level indicators
5e.....	Symbol 'anti-condensation' (only for model N3150)
5f.....	Error code

Turn refrigerator on

Start up the refrigerator and let it cool for eight hours before loading with food. If the refrigerator does not start to cool down after about two hours, contact your dealer or a Norcold authorized service center.

For best cooling performance, level your vehicle before operating the refrigerator.

To turn the refrigerator on, push the on/off switch and hold it for 1 second, as illustrated. A light in the on/off switch will turn green.



After 10 seconds the settings will dim. The green light indicates the refrigerator is still functioning.

To check the settings push the on/off button again. The currently active settings will light up. For optimal performance, turn the refrigerator on eight hours before placing food.

Anti-condensation heater (present on refrigerator model N3150 only)

To prevent condensation from forming on the control panel, the anti-condensation function is automatically turned on (no symbol visible). Only turn this function off when it is necessary to conserve vehicle battery charge.

To turn OFF the anti-condensation heater, push on the anti-condensation button. The symbol on the control panel will light up, indicating that the anti-condensation heater has been turned OFF.







To turn the anti-condensation heater back on, push the anti-condensation button again. The symbol on the control panel will go off, indicating that the anti-condensation heater has been turned ON.

Selecting a source

After turning the refrigerator on, push the source button several times, as illustrated. Push until the desired source is selected.



Sources

- Auto  The refrigerator automatically selects the best source available (in order: AC, DC, gas)
- AC  The refrigerator is powered by AC.
- DC  The refrigerator is powered by the battery of your vehicle.
- Gas  The refrigerator is powered by propane gas.

Always use the gas or AC mode to start up and cool. Operating on 12V DC is only effective while the engine of the vehicle is running.

If the 'auto' function on the refrigerator is selected, but no source is available, a light in the on/off switch blinks red.

The performance of the refrigerator operating on 12V DC is dependent on the thickness and length of the wiring and the overall installation of the vehicle.

Select cooling level

After turning the refrigerator on, push the cooling level button several times, as illustrated. Push until the desired level is selected.



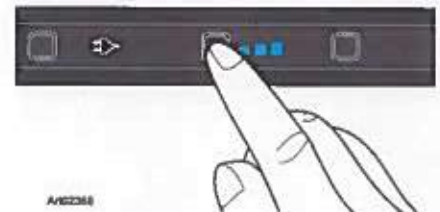
We advise to set the refrigerator on cooling level 3, with an ambient temperature between 60°F and 75°F. A higher temperature needs a higher cooling level, a lower temperature a lower level.

Turn refrigerator off

Before defrosting the refrigerator or storing your vehicle, turn the refrigerator off. Push the on/off switch, as illustrated, and hold it for 2 seconds to turn off the refrigerator. All lights will go out.

NOTICE

If storing the vehicle for an extended period of time, make sure to disconnect the fan at the rear of the refrigerator, as explained in section entitled "Refrigerator Storage".



Temperature Control System

Although the refrigerator is not frost-free, it is made to limit frost on the cooling fins. At regular intervals, the temperature control system automatically melts most of the frost from the cooling fins. The water from the cooling fins drains into a collection cup that is attached to the back of the refrigerator. The heat of the cooling system evaporates the water from the collection cup.

Effects of High Altitude on Propane Gas Operation

When you operate the refrigerator on propane gas at altitudes higher than 5500 feet above sea level:

- You may experience reduced cooling performance of the refrigerator.
- You may experience burner outages.

To avoid these possible problems, Norcold recommends that you operate the refrigerator on AC when at altitudes higher than 5500 feet above sea level.

Effects of Freezing Temperatures on Refrigerator Operation

A gas absorption refrigerator is not designed to operate in freezing temperatures. If the refrigerator is not equipped for low temperature operation, and if the cooling system of the refrigerator is exposed to temperatures of 32° F or lower for an extended period of time, the refrigerator operation may be disrupted. The refrigerator operation will resume when the cooling system of the refrigerator warms sufficiently.

Disrupted operation of the refrigerator, due to extended exposure to temperatures of 32° F or lower, and any costs incurred to warm the cooling system of the refrigerator are not covered by the Norcold limited warranty. Please contact your local RV dealer for information about how to resume refrigerator operation or about how to equip your refrigerator for operation in freezing temperatures.

Do not change the installation or the venting of your refrigerator. Refrigerator failures, which are the result of changes to either the refrigerator installation or to the venting, are not covered by the Norcold limited warranty.

Refrigerator Care Checklist

Your refrigerator will give you years of trouble free service if you do these simple checks every three to six months:

- Keep the food compartment and the freezer clean. See "Cleaning".
- Defrost the refrigerator as necessary. See "Defrosting".
- Make sure the door seals correctly. See "Door Sealing".
- Be aware of any cooling changes that are not because of weather, loading, or gas control changes. If changes occur, contact your dealer or service center.
- Make sure the gas supply is propane gas only and not butane or a butane mixture.
- When in propane gas operation, examine the appearance of the flame. See "Gas Flame Appearance".
- Make sure the air flow in the lower intake vent, through the refrigerator coils and condenser, and out the upper exhaust vent is not blocked or decreased.
- Make sure the area behind the refrigerator is clear. Do not use the area behind the refrigerator for storage of anything, especially gasoline and other flammable vapors and liquids.

Defrosting

The cooling fins of the refrigerator operate at below freezing temperature and will naturally form frost from humidity, which is always present in the air. The humidity inside the refrigerator increases:

- with higher outside temperature and humidity.
- with the storage of non-sealed fresh foods or warm foods.
- with the amount of time that the door(s) are open.
- with any air leakage into the refrigerator.

Although the refrigerator is not frost-free, it is made to limit frost on the cooling fins. At regular intervals, the temperature control system automatically melts most of the frost from the cooling fins. The water from the cooling fins drains into a collection cup that is attached to the back of the refrigerator. The heat of the cooling system evaporates the water from the collection cup.

It is normal for frost to collect inside the freezer. Excess frost decreases the cooling performance of the refrigerator. Defrost the refrigerator and freezer as necessary:

- Remove all food from the refrigerator.
- Turn the refrigerator OFF.

NOTICE

Defrosting the refrigerator makes excess water inside the refrigerator.

- Remove the drain hose from the drip cup at the rear of the refrigerator.
- Put the drain hose into a half-gallon or larger container to capture water.
- Put dry towels (etc.) inside the refrigerator and freezer to absorb melted frost.

CAUTION

High temperatures can cause the inside surfaces of the refrigerator to warp or melt. Do not use pans of HOT water, hair dryer, or any other high temperature devices to defrost the refrigerator. Do not use any hard or sharp objects to remove frost. Damage to the interior of the refrigerator can occur.

- To increase the speed of defrosting, put pans of WARM water in the refrigerator and freezer.
- Remove the wet towels (etc.) and dry the interior.
- Remove the drain hose from the large container and put the drain hose back into the drip cup.
- Remove the large container from the enclosure.
- Start up the refrigerator.
- Allow the refrigerator to cool down.
- Return all food to the refrigerator.

Cleaning

A good time to clean the refrigerator is just after you defrost it. Clean the inside of the refrigerator as often as necessary to avoid food odors:

- Remove all food from the refrigerator.

NOTICE

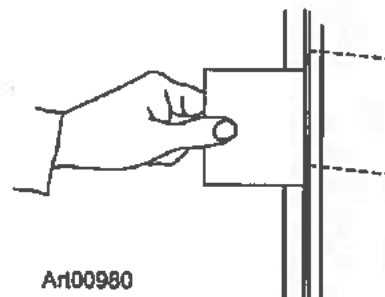
Do not use abrasive cleaners, chemicals, or scouring pads because they can damage the interior of the refrigerator.

- Wash the interior with a mild cleaner or a solution of liquid dish detergent and warm water.
- Rinse with a solution of baking soda and clean water.
- Dry with clean cloth.
- Put all food in the refrigerator.

Check the Seal of the Doors

If either door does not seal correctly, excess frost will collect inside the refrigerator. Make sure the doors seal correctly (See Art00980):

- Close each door on a piece of paper that is about the size and thickness of a dollar bill.
- Gently pull the paper.
 - You should feel a slight drag between the gasket and the cabinet.
 - Do this on all four sides of the door.
 - If you do not feel a slight drag on the paper, the door does not seal correctly.
 - Have your dealer or an authorized Norcold Service Center correct the seal of the door.



Art00980

Refrigerator Maintenance Checklist

Read and understand the following maintenance sections of this manual.

NOTICE

Norcold is not responsible for installation, adjustment, alteration, service, or maintenance performed by anyone other than a qualified RV dealer or a Norcold authorized service center.

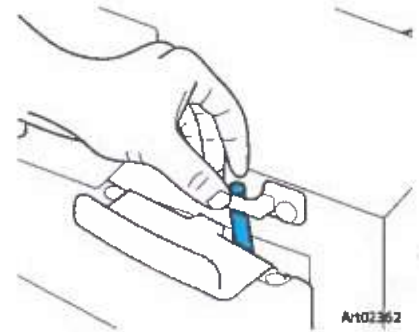
Have a qualified RV dealer or a Norcold authorized service center do these annual safety and maintenance checks:

- Examine the gas supply lines for leaks
 - Replace or repair if needed.
- Make sure the propane gas pressure is 11 inches of water column.
 - Adjust if needed.
- Make sure the combustion seal is complete and intact.
 - Replace or repair it if needed.
- Make sure the burner and the burner orifice are clean.
 - Clean if needed.
- Make sure the electrode spark gap is 1/8 - 3/16 inch.
 - Adjust if needed.
- Make sure the AC voltage is 108 - 132 volts and the DC voltage is 10.5 - 15.4 volts.
- Make sure the area at the rear of the refrigerator is free of any combustible materials, gasoline, and other flammable vapors and liquids.

Refrigerator Storage

Before the refrigerator is stored for an extended (seasonal) period of time:

- Defrost and clean the interior of the refrigerator.
- To prevent odors and mold in the refrigerator, keep all doors open during storage. Rotate the hook at door lock 45 degrees and lock it in place by using the strike plate, as illustrated.
- Disconnect the fan at the rear of the refrigerator. Unplug the connector on the red wire of the DC power cord, where shown as illustrated.



If the refrigerator is stored for an extended period of time, before start up:

- Make sure there are no obstructions in the vents, the ventilation air pathway, the burner, the orifice, or the flue area.
- Reconnect the fan at the rear of the refrigerator. Plug together the connectors on the red wire of the DC power cord, where shown as illustrated.



Art02331

Refrigerator Maintenance

Gas flame appearance:

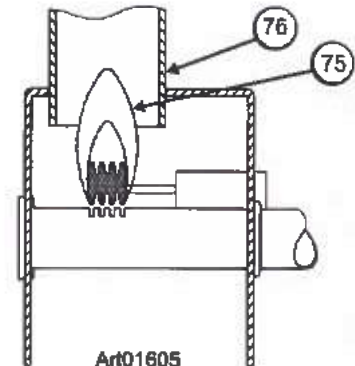
While in GAS operation, examine the appearance of the gas flame:

- Turn the refrigerator on, select manual gas mode, and coldest temperature setting.
- Open the lower intake vent.



The burner box cover can be hot. Wear gloves to avoid burns.

- Remove the burner box cover by removing the screw.
- Look at the gas flame [75] (See Art01605).
- The flame should be:
 - a darker blue color on the inside of the flame and a lighter blue color on the outside of the flame.
 - a constant shape without flickering.
 - Contact your dealer or Norcold authorized service center if the flame is:
 - yellow
 - flickering or changing shape.
 - Make sure the flame does not touch the inside of the flue tube [76].
 - If the flame touches the inside of the flue tube, contact your dealer or Norcold authorized service center.
 - Close the burner box door.

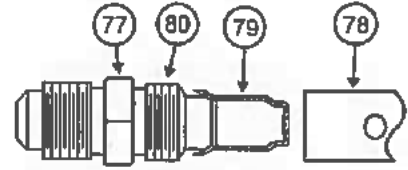


Remove and clean the burner orifice

Your dealer or Norcold authorized service center must do this procedure.

Remove and clean the burner orifice (See Art00956):

- Close the valve at the propane gas tank(s).
- Push the on/off switch and hold it for 2 seconds to turn off the refrigerator.



Art 00956



The burner box cover can be hot. Wear gloves to avoid burns.

- Open the lower intake vent.
- Remove the burner box cover by removing the screw.



To avoid possible propane gas leaks, always use two wrenches to loosen and tighten the gas supply line connections.

- Remove the flare nut from the orifice assembly [77] (See Art00956).
- Remove the orifice assembly from the burner [78].



Do not try to remove the orifice [79] from the orifice adapter [80] when cleaning. Removal will damage the orifice and seal of the orifice and can cause a propane gas leak. Leaking propane gas can ignite or explode which can result in dangerous personal injury or death. Do not clean the orifice with a pin or other objects.

- Clean the orifice assembly with air pressure and alcohol only.
- Using a wrench, assemble the orifice assembly to the burner.
- Assemble the flare nut to the orifice assembly.
- Examine all of the connections for gas leaks.
- Clean the burner box.
- Assemble the burner box cover.







Replacement Parts

You may purchase replacement parts through your local RV dealer or authorized Norcold Service Center.

Troubleshooting

In case of a problem, an error code on the control panel can light up. When error codes 1, 2, 4, 5, 8, 9, 12 or 13 are visible, directly contact your dealer or a Norcold Service Center.

For below error codes, first read the associated instructions. If this will not solve the problem, contact your dealer or a Norcold Service Center.

-  **3** The refrigerator does not work on gas: check if the gas bottle is not empty • check if the valve of the gas bottle and all shut-off valves are open • turn the refrigerator off and on again • try to run the refrigerator on another power source
-  **6** The refrigerator does not work on 12V: make sure the engine is running • try to run the refrigerator on another power source
-  **7** The refrigerator does not work on 12V: make sure the engine is running • try to run the refrigerator on another power source.
-  **10** The refrigerator does not work on 120V: check if 120V AC is available • try to run the refrigerator on another power source
-  **11** The refrigerator does not work in AUTO mode: check if the sources are connected • try to run the refrigerator manually on a power source
-  **18** All symbols on the control panel light up: wait a few seconds until the refrigerator starts normal.

Frequently Asked Questions

What can I do, when the refrigerator does not start?

Check if you turned on the refrigerator according to the instructions, if the vehicle stands level or if there is an available energy source to start the refrigerator with. If none of this is the case, please contact your dealer or a Norcold Service Center.

The refrigerator does not cool sufficiently, what can I do?

Check if the vents aren't covered or blocked from the outside, if the refrigerator stands level, if the highest cooling level of the refrigerator is selected, if the door of the refrigerator still closes properly, if there is not too much ice on the cooling fins, or if the fan wire is disconnected at the rear of the refrigerator. If none of this is the case, please contact your dealer or a Norcold Service Center.

All lights on the control panel are blinking, what should I do?

Please contact your dealer or a Norcold Service Center.

Installation Manual

Safety Awareness

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



- This refrigerator is not approved for use as a free standing refrigerator. It is equipped for the use of propane gas only and cannot be changed to use any other fuels (natural gas, butane, etc.).
- 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 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.
- Propane 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 propane gas supply line for leaks. Always use two wrenches to tighten or loosen the propane 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

This refrigerator is certified by CSA International as meeting the latest edition of ANSI Z21.19 / CSA 1.4 standards for installation in mobile homes or recreational vehicles.

The refrigerator must be installed in accordance with this "Installation Manual" in order for the Norcold limited warranty to be in effect. In addition, the installation must conform to the following, as applicable:



Art01290

In the United States and Canada:

- 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, ANSI A119.2 Recreational Vehicles Code, and CSA Z240 RV Series, Recreational Vehicles.
- A manufactured home (mobile home) installation must 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)], and the current CSA Z240.4, Gas-equipped Recreational Vehicles and Mobile Housing.
- If an external power source is utilized, the appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, the National Electrical code, and ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.2. Parts 1 and 2.

All propane gas supply piping and fittings must obey local, state, and national codes about type and size. These components must also obey the current NFPA 1192 section 2-4, and in Canada with the current CAN 1-6.10 Standard.

Ventilation Requirements



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 vents 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 propane gas to escape to the outside and not to collect at floor level.

CSA International certification allows the refrigerator to have zero (0) inch minimum clearance at the sides, rear, top, and bottom. While there are no maximum clearances specified for certification, the following maximum clearances are necessary for correct refrigerator performance:

Bottom	0 inch min.	0 inch max.
Each Side	0 inch min	1/2 inch max.
Top	0 inch min.	1/4 inch max.
Rear	0 inch min.	1 inch 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 vent, goes up around the refrigerator coils where it removes the excess heat from the refrigerator components, and goes out through the upper vent. If this air flow is blocked or decreased, the refrigerator will not cool correctly.

Each NORCOLD model is certified by CSA International for correct ventilation. Install only the certified vents that are listed in this manual.

Key Refrigerator Dimensions

	Height* (in.)	Width (in.)	Depth* (in.)	Total Volume (cu. ft.)	Freezer Volume (cu. ft.)	Net Weight (lb.)
N3104Axx	32 5/16	20 11/16	23 3/8	3.7	0.39	61
N3150Axx	49 1/16	20 11/16	22 7/8	5.3	0.88	85

* Height dimension includes feet. Depth dimension includes the door.

Assemble the Enclosure for the Refrigerator

1. Use the table below, and associated figures, to determine the enclosure size.

Model	Height (in.)	Width (in.)	Depth (in.)	Door Depth "FC" (in.)
N3104Axx	32 1/2	20 13/16 min. to 20 15/16 max.	20 3/8 min.	3 1/16
N3150Axx	49 3/16	20 13/16 min. to 20 15/16 max.	19 7/8 min.	3 1/16

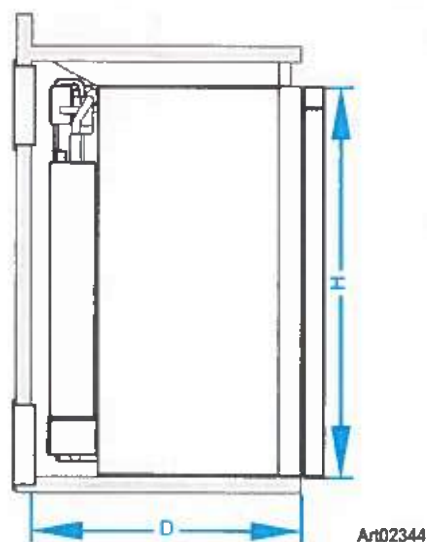
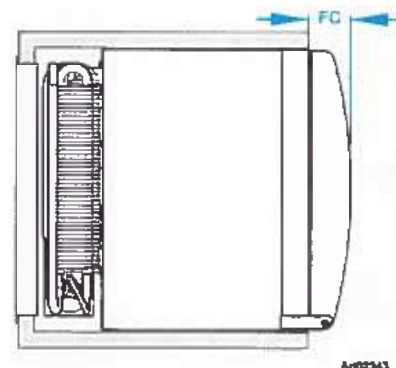
2. Make sure the floor is solid and level.

- 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 1/2 inch 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 batt-type insulation extends from the enclosure face, to the combustion seal at the rear of the refrigerator cabinet.
 - 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	Overall Vent Size
Upper Roof Exhaust Cap	622293	N/A	N/A	10½ in. x 33 in.
Upper Roof Exhaust Vent	616319	24 in.	5 1/4 in.	7 7/16 in. x 26 7/23 in.
Large Vent (3 Louver)	621156xx	13 ¾ in.	21 ½ in.	16 15/32 in. x 24 7/32 in.
Large Vent (10 Louver)	690136xx	9 13/16 in.	19 5/16 in.	11 1/16 in. x 21 in.
Small Vent	633588xx	6 5/32 in.	17¾ in.	7 11/32 in. X 19 1/32 in.
Universal Upper and Lower Vent	620505xx	6 3/16 in.	17 13/16 in.	8 5/32 in. X 19 5/8 in.

Install the vents exactly as described. Any other method will invalidate the warranty for the refrigerator.

2. Install the lower intake vent (See Art02337, Art02338, and Art02339):

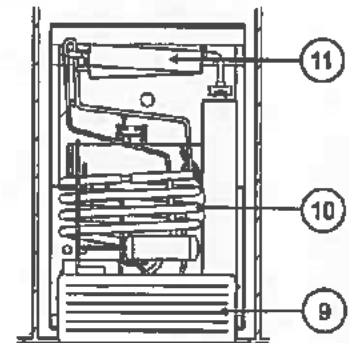
NOTICE

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 propane 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 lower intake vent vertically below the coils [10] and the condenser [11] of the refrigerator.



Art02339

3. Install the upper exhaust vent:

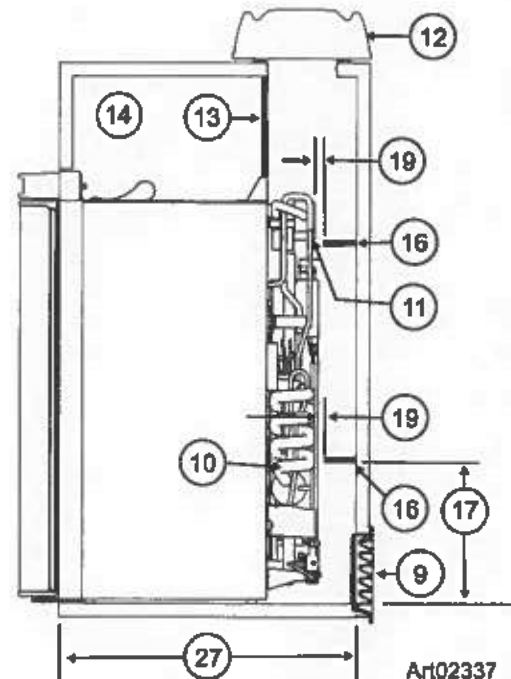
CAUTION

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 10 inch-pounds max. 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 Art02337):
 - Install a baffle [13] to prevent stagnant hot air in the area [14] above the refrigerator.



Art02337

- Make sure the baffle is the full width of the inside of the enclosure.



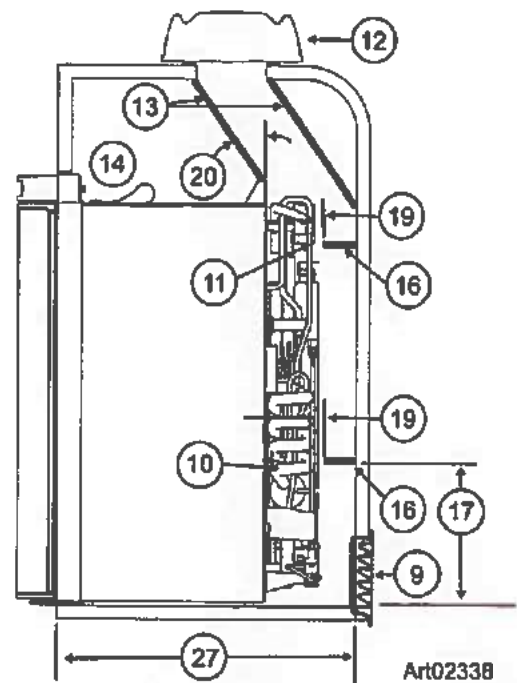
The front baffle [13] completes the combustion seal at the top of the refrigerator. Make sure that the baffle is sealed around all edges (against the top edge of the refrigerator, against the enclosure side walls, and against enclosure ceiling in front of the vent). See also section entitled "Combustion Seal".

- 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 Art02338):
 - 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.

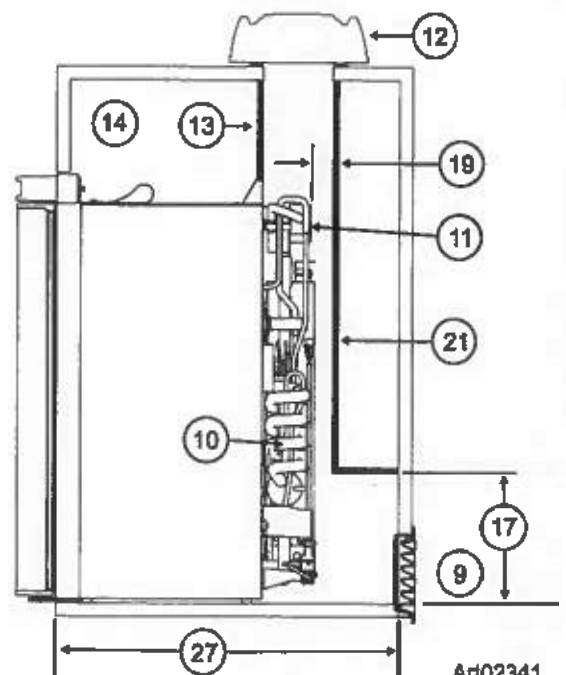


The front baffle [13] completes the combustion seal at the top of the refrigerator. Make sure that the baffle is sealed around all edges (against the top edge of the refrigerator, against the enclosure side walls, and against enclosure ceiling in front of the vent). See also section entitled "Combustion Seal".

- 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 20 3/8 inches or more and is less than 21 3/8 inches [27], no baffles are necessary at the rear of the enclosure.



Art02338



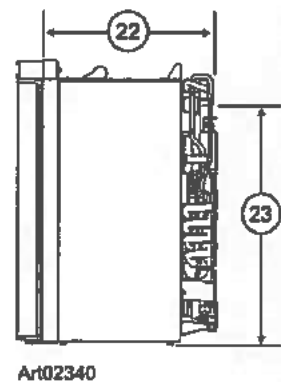
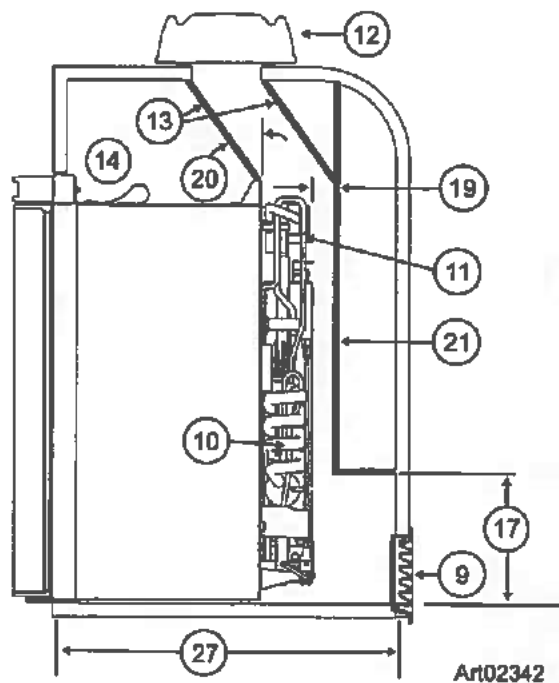
Art02341

- If the depth of the enclosure is 21 3/8 inches or more and is less than 22 3/8 inches [27], add two baffles [16] to the rear of the enclosure (See Art02337 and Art02338).

- For model N3104, put one baffle 10 inches above the bottom of the enclosure [17], or at the top of the lower intake vent opening, whichever is higher.
- For model N3150, put one baffle 12 inches above the bottom of the enclosure [17], or at the top of the lower intake vent opening, whichever is higher.
- Put the other baffle at the lowest edge of the condenser [11] of the refrigerator.
 - Make sure that the baffles are 1 inch or less [19] from the coils [10] and condenser [11] of the refrigerator.
 - Make sure that the baffles are the full width of the inside of the enclosure.

- If the depth of the enclosure is more than 22 3/8 inches [27], install a wood or an aluminum or galvanized sheet solid box baffle [21] in the rear of the enclosure (See Art02341 and Art02342).

- Make sure that the horizontal bottom of the solid box baffle is even with or above the top edge of the lower exhaust vent [9].
- Make sure that distance from the enclosure floor to the vertical bottom edge of the solid box baffle [17] is 10 in. for N3104 models and 12 in. for N3150 models.
- 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 one inch 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 the design of the vehicle does not allow you to install a roof exhaust vent, install an upper side-wall exhaust vent.

NOTICE

The distance from the front of the breaker to the rear of the condenser [22] (See Art02340) is 19 11/32 in. for N3104 and 19 1/16 for N3150.

NOTICE

The distance from the bottom of the refrigerator (including feet) to the bottom of the condenser [23] (See Art02340) is 27 1/4 in. for N3104 and 42 9/16 for N3150.

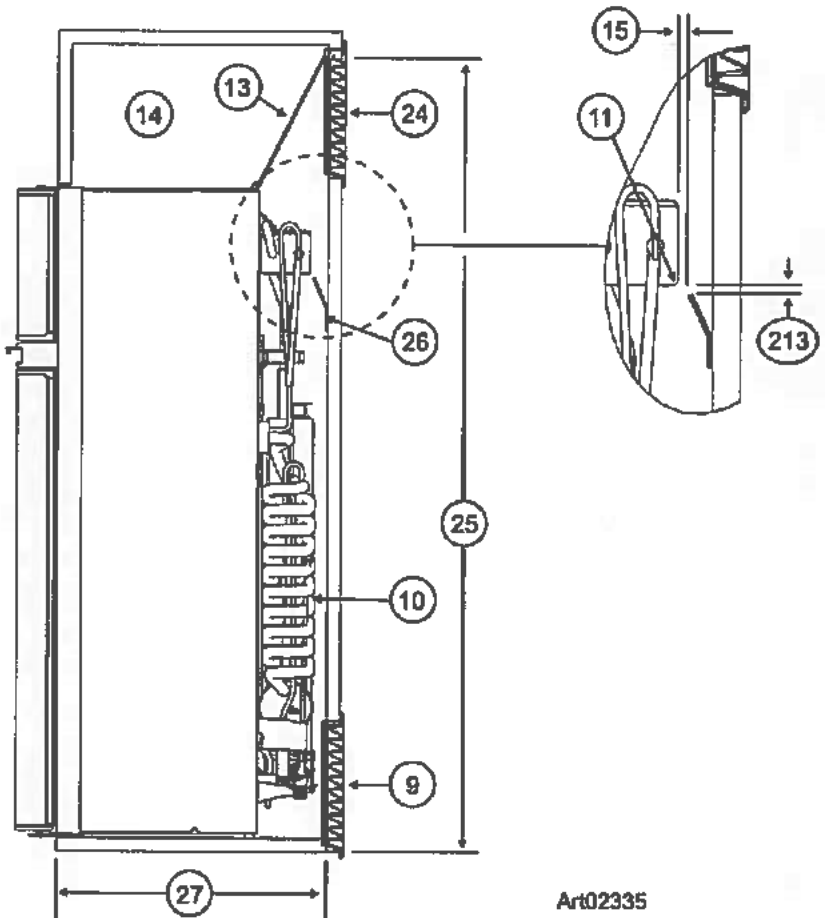
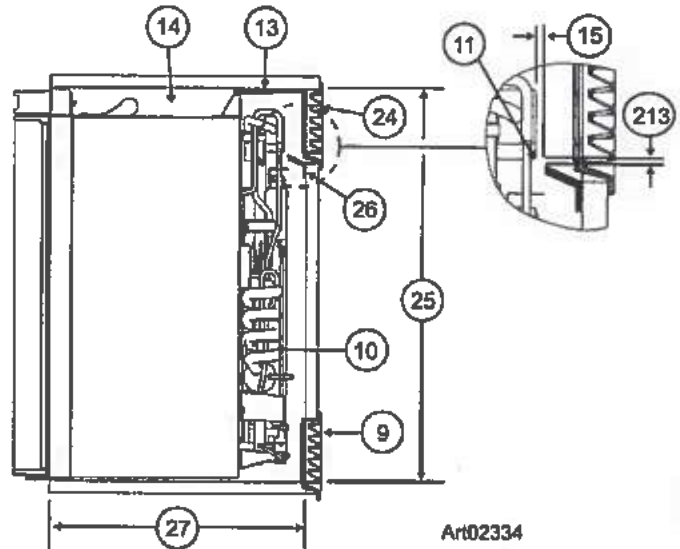
CAUTION

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.
- Install the upper side-wall exhaust vent [24] (See Art02334 and Art02335).
 - 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 32 1/2 in. for N3104 and 49 3/16 for N3150.
 - 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 [14], 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 the baffle is the full width of the inside of the enclosure.

WARNING

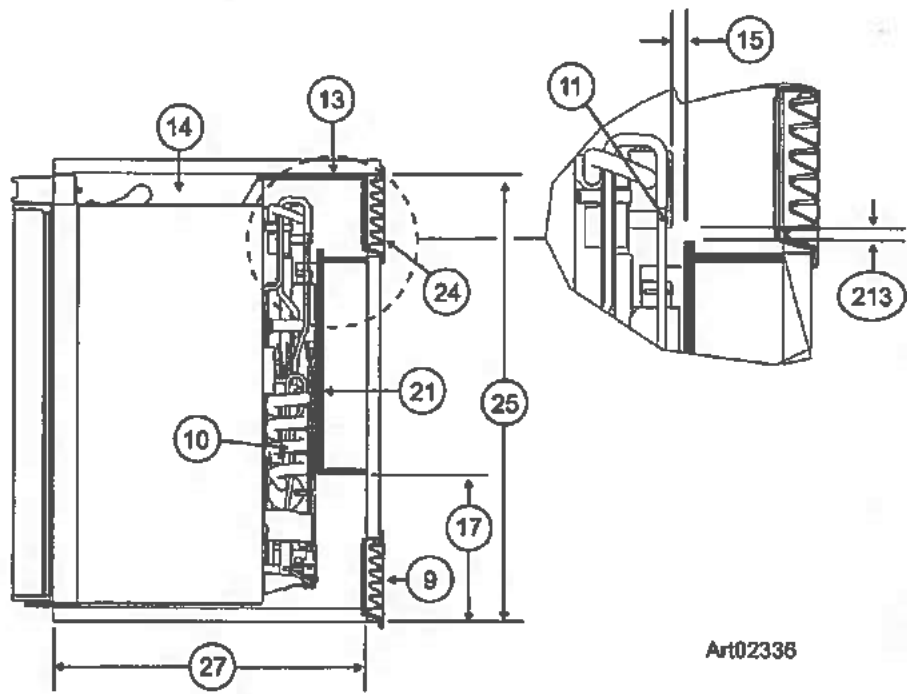
The top baffle [13] completes the combustion seal at the top of the refrigerator. Make sure that the baffle is sealed around all edges (against the top edge of the refrigerator, against the enclosure side walls, and against vehicle wall or enclosure ceiling above the vent). See also section entitled "Combustion Seal".



- When using an upper side-wall exhaust vent:

- If the depth of the enclosure is 20 3/8 inches or more and is less than 22 3/8 inches [27], install a bent aluminum or galvanized steel sheet baffle [26] to the rear of the enclosure (See Art02334 and Art02335).
 - 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 even with or below the bottom edge of the upper intake vent door frame.
 - Make sure that the top edge of the baffle is between 1/4 inch [213] below the condenser and 1 1/2 inches above the bottom of the condenser and that there is 1/4 inch or less clearance [15] between the rear of the condenser and the baffle.
 - For the best cooling performance, the baffle should be 1/4 inch below the bottom of the condenser.
- If the depth of the enclosure is more than 22 3/8 inches [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 Art02336).

- Make sure that the solid box baffle is the full width of the inside of the enclosure.
- Make sure that the horizontal bottom of the solid box baffle is even with or above the top edge of the lower exhaust vent [9].
- Make sure that distance from the enclosure floor to the vertical bottom edge of the solid box baffle [17] is 10 in. for N3104 and 12 in. for N3150.
- 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 or below the bottom edge of the upper exhaust vent [24].



Art02336

- Make sure that the vertical top edge of the baffle is between 1/4 inch [213] below the condenser and 1 1/2 inches above the bottom of the condenser.
- Make sure that there is 1/4 inch or less clearance [15] between the rear of the condenser and the baffle.

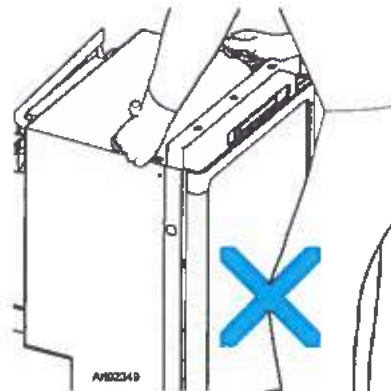
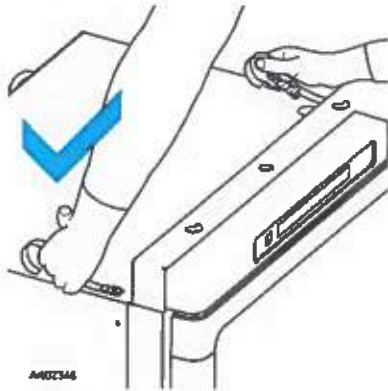
Reverse the Door Swing (optional)

NOTICE

N3000 series refrigerators are designed so that door swing can be reversed in the field, using kits that can be purchased separately. Door swing reversal should be done before installing the refrigerator in the vehicle.

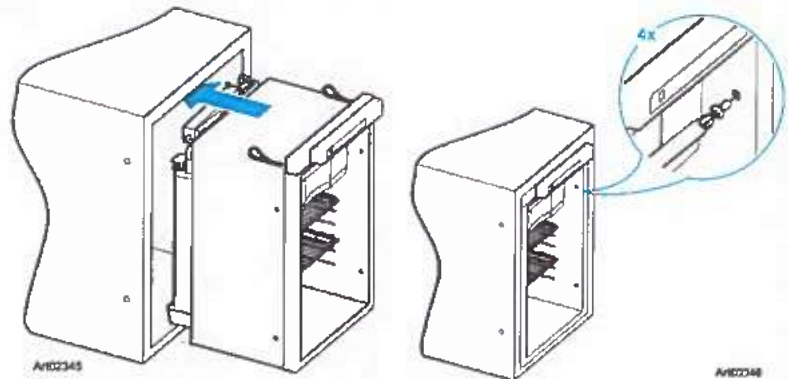
Handling

Only carry the refrigerator at the strap handles on top (1), if equipped. Do not use your knee to lift the refrigerator (2).



Install the Refrigerator

- Push the refrigerator completely into the enclosure.
- Use screws to fix the refrigerator, and the white caps for finishing.
 - For the N3104, 4 screws and 4 white caps are supplied.
 - For the N3150, 6 screws and 6 white caps are supplied.

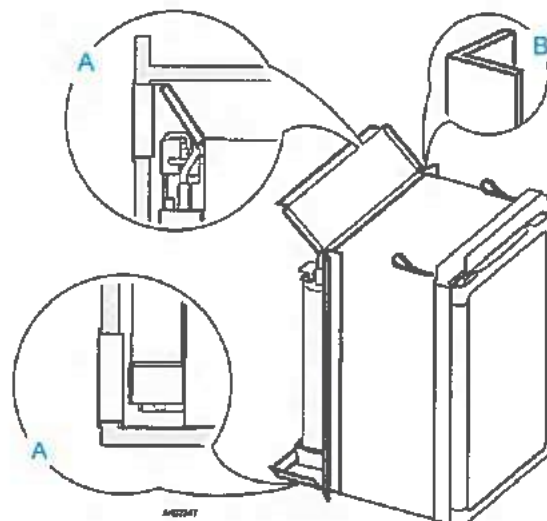


Combustion Seal

Position sealing as shown in the figure.

Fix the strips to the sides of the refrigerator (B) in a vertical direction at the rear of the refrigerator.

Fix the upper and lower flap of the combustion sealing (A) as the drawing shows.



NOTICE

Upper flap (A) may have already been installed as a ventilation baffle. See also section entitled "Install the Lower and Upper Vents", Step 3.

The sealing area must be separated air-tight from the living area.



If the combustion seals are not being used or fail to seal properly in the unit, use a different kind of sealing to keep hazardous combustion gases out of the living area of the vehicle. 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.

Connect the Electrical Components

AC Operation, 120 volts AC voltage (132 volts max. - 108 volts min.)

DC Operation, 12 volts DC control voltage (15.4 volts max. - 10.5 volts min.)

This refrigerator operates on these 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 120 volts AC supply



Connect the AC power cord(s) only to a grounded three-prong receptacle. Do not remove the round ground prong from any of the AC power cords. Do not use a two prong adapter or an extension cord with any of the AC power cords. Operation of the refrigerator without correct ground can cause dangerous electrical shock or death if you are touching the metal parts of the refrigerator.

Plug the AC power cord(s) into a grounded three-prong receptacle:

- Make sure the receptacle is positioned within easy reach of the lower intake vent.
- Make sure the power cord(s) 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 - 20 feet, use a minimum of 10 AWG wire and a maximum 30 Amp fuse.
 - If the distance is over 20 feet, use a minimum of 8 AWG 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:

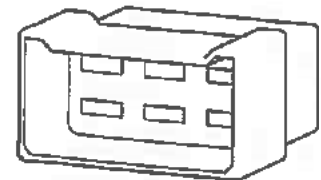
These models have 2 connection points to prevent the battery from being discharged by the refrigerator when the engine is not running.

High current supply red cable (+) and white cable (-) for heating element. Only turned on if signal on D+

Low current supply purple (+) and black (-) for electronics.

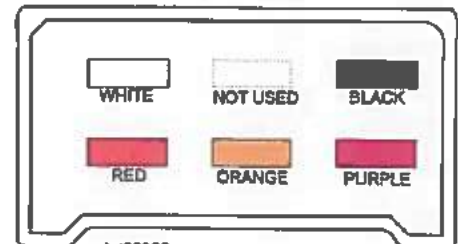
D+ signal orange, + when engine runs

Use Stocko / Tyco / Amp 6-pole housing, or equivalent, with Lear connectors, or equivalent, wired as shown.



Art02370

TYCO / AMP 180906



Art02350

TYCO / AMP 925276

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 Propane Gas Components

This refrigerator operates on propane gas at a pressure of 11 Inches Water Column Propane.

The controls operate on 12 volts DC (10.5 volts min. - 15.4 volts max.). Operation out of these limits can damage the refrigerator electrical circuit parts and will void the warranty.

Connect the propane gas supply system:



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

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

Connect the gas supply line to the refrigerator:

- Make sure that all tubing and fittings obey all local, state, and national codes about size and type.
- Make sure that all flexible metal connectors obey the current CAN1-6.10 Standard.

- Make sure that the materials used for the gas supply line obey both the current ANSI A 119.2 (NFPA 1192) and CSA Z240 Standards on Recreational Vehicles. Norcold recommends the use of 3/8 inch copper tubing as the gas supply line and requires a 3/8 inch SAE (UNF 5/8-18) male flare fitting as the connection to the refrigerator.
- Put the propane gas supply line up through the floor of the enclosure.
- Make sure the hole through the floor is large enough allow clearance for the gas supply line.
- Put a weather resistant seal (grommet, sealant, etc.) around the gas supply line where it goes through the floor to prevent vibration and abrasion.
- To prevent vibration and abrasion, make sure that the gas supply line is not against anything in the enclosure.
- Attach the gas supply line to the bulkhead fitting of the refrigerator.

Examine the 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 electrical shorts and in some cases, fire.

Use a leak detecting solution to examine the gas supply line and all propane gas connections for leaks. If you use compressed air for the test:

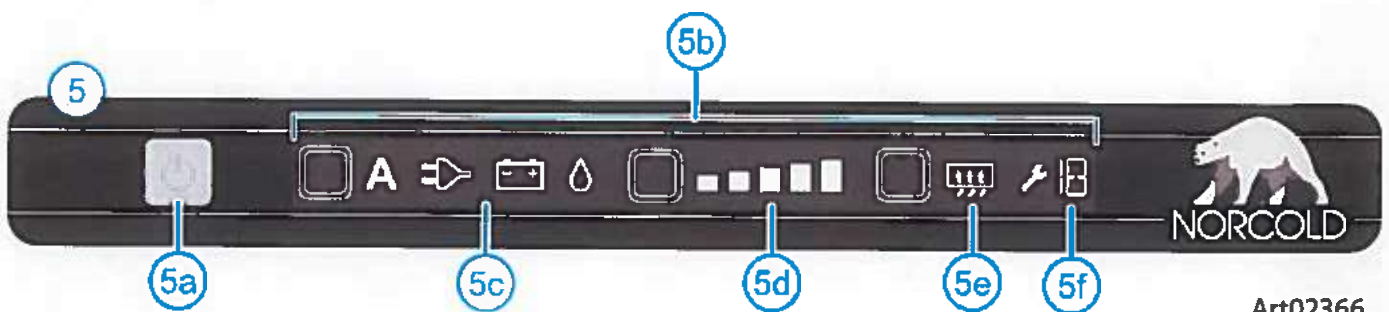
- The pressure of the compressed air at the manual shut off valve of the refrigerator must not be more than 1/2 psig (14 inches Water Column).
- If the pressure of the compressed air is more than 1/2 psig (14 inches Water Column), remove the gas supply line from the bulkhead fitting of the refrigerator before the test.
- If the pressure of the compressed air is equal to or less than 1/2 psig (14 inches Water Column), close the manual shut off valve of the refrigerator before the test.

Ignition and Start Up

Before ignition or start up of the refrigerator:

- Make sure the air flow in the lower intake vent, through the refrigerator coils and condenser, and out the upper exhaust vent is not blocked or decreased.
- Make sure there are no combustible materials in or around the refrigerator.

Control Panel with Touchscreen





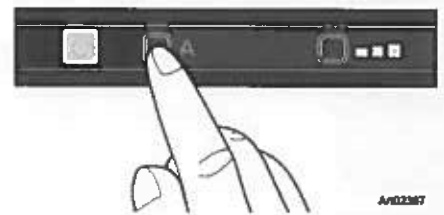
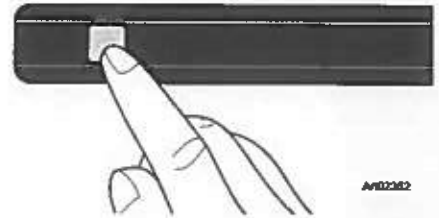
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Removing Air From the Propane Gas Supply Lines

For safety reasons, the burner is made to ignite on propane gas within a specified amount of time. When starting the refrigerator for the first time, after storage, or after replacing propane gas tank, the propane gas supply lines can have air in them. Due to the air in the gas supply lines, the burner may not ignite on propane gas within the specified amount of time.

To remove the air from the propane gas supply lines:


- Make sure that all of the gas valves are open.
- To turn the refrigerator on, push the on/off switch and hold it for 1 second, as illustrated. A light in the on/off switch will turn green.
- Push the source button several times, as illustrated. Push until the flame  appears on the display. This means that the refrigerator is operating on propane gas.
- The refrigerator will start a 30 second trial for ignition. During the 30 second trial for ignition, the refrigerator controls open the gas safety valve and the igniter sparks. After 30 seconds, the refrigerator controls close the gas safety valve and the igniter stops sparking.
- If the air in the propane gas supply lines prevents the burner from ignition on propane gas, the fault code  **3** will appear in the center display.
- Push the on/off switch, as illustrated, and hold it for 2 seconds to turn the refrigerator off. All lights will go out.
- To start another trial for ignition, push the on/off switch and hold it for 1 second to turn the refrigerator on. A light in the on/off switch will turn green.
- The refrigerator will start another 30 second trial for ignition. During the 30 second trial for ignition, the refrigerator controls open the gas safety valve and the igniter sparks. After 30 seconds, the refrigerator controls close the gas safety valve and the igniter stops sparking.
- When the flame appears on the display and no fault code remains, this means that the refrigerator is operating on propane gas.
- At this time, all of the air is removed from the propane gas supply lines and you may select AUTO mode of operation if you wish.
- Depending on how much air may be in the propane gas supply lines, you may need to repeat the 30 second trial for ignition two or three times.
- If the burner does not ignite on propane gas after three attempts, refer to the "Troubleshooting" section of this manual; consult your local dealer or an authorized Norcold Service Center, if necessary.



Set the Controls to Automatic Mode Operation

Push the source button several times, as illustrated. Push until the desired source (A, 'auto') is selected and displayed. 

If the engine is running, DC mode will be selected and displayed. 

If the engine is not running, and 120 volts AC is available to the refrigerator, AC mode will be selected and displayed. 

If the engine is not running, and 120 volts AC is NOT available to the refrigerator, gas mode will be selected and displayed. 

If the gas does not ignite after several attempts, refer to the "Troubleshooting" section of this manual.

If the 'auto' function on the refrigerator is selected, but no source is available, a light in the on/off switch blinks red.



A102267

Turn Refrigerator Off

Before defrosting the refrigerator or storing your vehicle, turn the refrigerator off. Push the on/off switch, as illustrated, and hold it for 2 seconds to turn the refrigerator off. All lights will go out.

NOTICE

If storing the vehicle for an extended period of time, make sure to disconnect the fan at the rear of the refrigerator, as explained in section entitled "Refrigerator Storage".



A102263

Remove the Refrigerator

Your dealer or Norcold authorized service center must do this procedure.



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

1. Close the valve at the propane gas tank(s).



To avoid possible propane gas leaks, always use two wrenches to loosen and tighten the gas supply line connections.

2. Open the lower intake vent, and remove the refrigerator AC power cord from the receptacle.

3. Remove the DC wiring from the refrigerator:

- Remove the DC fuse or remove the DC wiring from the battery or the converter.
- Remove the refrigerator DC power cord from the vehicle wiring plug.

4. Remove the gas supply line from the bulkhead fitting of the refrigerator.

5. Remove the white plastic plugs from the sides of the refrigerator interior.

6. Remove the screws from the sides of the refrigerator interior.

7. Remove the refrigerator from the opening.



For NX64 models:	6 cu.ft., R.V. refrigerators.
For NX64IM models:	6 cu.ft., R.V. refrigerators with ice maker.
For NX84 models:	8 cu.ft., R.V. refrigerators.
For NX84IM models:	8 cu.ft., R.V. refrigerators with ice maker.

The model numbers of 3-way refrigerators include “.3”. The model numbers of 2-way refrigerators do not.



FIRE OR EXPLOSION HAZARD

If you smell gas:

1. Open Windows
2. Do not attempt to light appliance.
3. Do not touch electrical switches.
4. Extinguish any open flame
5. Shut off fuel supply.
6. Evacuate immediately and call emergency services.

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



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

English

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Safety Awareness

Read this manual carefully and understand the contents before you use 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



- The storage of flammable materials behind or around the refrigerator creates a fire hazard. Do not use the area behind the refrigerator to store anything, especially flammable materials (gasoline, cleaning supplies, etc.)
- Do not remove the round ground prong from any of the AC power cords. Do not use a two prong adapter or an extension cord with any of the AC power cords.
- A circuit overload can result in an electrical fire if the wires and/or fuses are not the correct size. Use only the wire and fuse sizes as written in the "Installation Manual".
- Incorrect installation, adjustment, change to, or maintenance of this refrigerator can cause personal injury, property damage, or both. Have service and maintenance work done by your dealer or by an Norcold authorized service center.
- Disconnect both the AC and DC power sources before doing any maintenance work on the refrigerator. All service work on this refrigerator must be done by a qualified service technician.
- Do not bypass or change the refrigerator's electrical components or features.
- When you discard an appliance, remove all doors to prevent accidental entrapment and suffocation.
- 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.
- At regular intervals, make sure that the refrigerator flue the burner, the vent areas, and the ventilation air pathway between the vents are completely free from any flammable material or blockage. After a period of storage, it is especially important to check these areas for any flammable material or blockage caused by animals.



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


About Your Refrigerator

Storage Volume:

This refrigerator is made for storage of foods and frozen food and for making ice.

Total capacity NX6 models - 6.3 cubic feet NX8 models - 7.5 cubic feet

Leveling:

 The refrigerator is made to operate within 3° off level side-to-side and 6° off level front-to-back (as looking at the front of the refrigerator). Operating it at more than these limits can cause damage to the cooling system and create a risk of personal injury or property damage. Make sure the vehicle is level before you operate the refrigerator.

Operation during travel:

While the refrigerator should be level when the vehicle is stopped, performance during travel is not usually effected.

Food compartment:

Start up the refrigerator and let it cool for eight hours before loading with food. If the refrigerator does not start to cool down after about two hours, contact your dealer or a Norcold authorized service center.

For the best cooling performance:

- Let air move freely inside the entire food compartment.
- Do not cover the shelves with plastic, paper, etc.

To decrease the amount of ice that collects on the cooling fins:

- Cover all liquids and moist foods.
- Let all hot foods cool before putting them in the refrigerator.
- Do not open the door any longer than necessary.

Freezer compartment:

The freezer compartment is made to keep pre-frozen food frozen and not to quick freeze food. Keep pre-frozen foods in the freezer compartment.

 Do not put other items on the ice tray while the water is freezing. The water freezes more rapidly if the thermostat is at the COLDEST position.

Crisper(s):

The crisper(s) are located at the bottom of the fresh food compartment and supply a storage area to preserve fruit and vegetable freshness. Make sure that you always push the crispers fully in.

 Do not wash the crispers in a dishwasher. The crispers are not dishwasher safe.

Door bins:

You may put the door bins [52] of the freezer and fresh food compartment in a location that best meets your needs (See Art00989). To remove the bins, lift them over the locator and pull them forward. To install the bins, push them onto the locator.

 Do not wash the door bins and bin slides in a dishwasher. The door bins and bin slides are not dishwasher safe.

Door bin slide:

Each door bin includes an adjustable door bin slide [53] to prevent the bin contents from moving or overturning during transit (See Art00989).

Push each door bin slide against the bin contents. To remove each door bin slide, rotate it out of the bin. Rotate the each bin slide to into the bin to install.

Adjustable shelves:

The shelves in the freezer and the fresh food compartment are made so you can remove them or move them.

To remove or move the shelf of the freezer:

- Pull the shelf forward out of the slot.
- Push it fully into the slot that you wish.

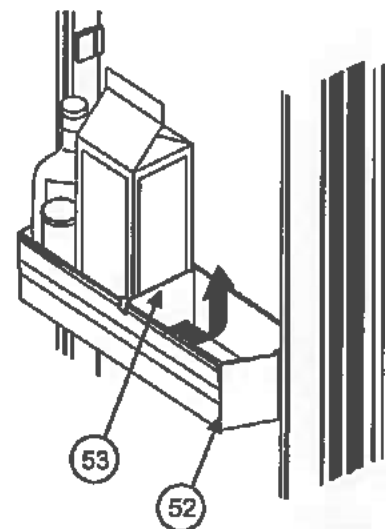
To remove or move the shelves of the fresh food compartment:

- Remove the screws [41] from the retainer [54] on the side of the refrigerator (See Art00992).
- Remove the retainer.
- Pull each shelf forward out of the slot.
- Push each fully into the slot that you wish.
- Install the retainer with the screws.

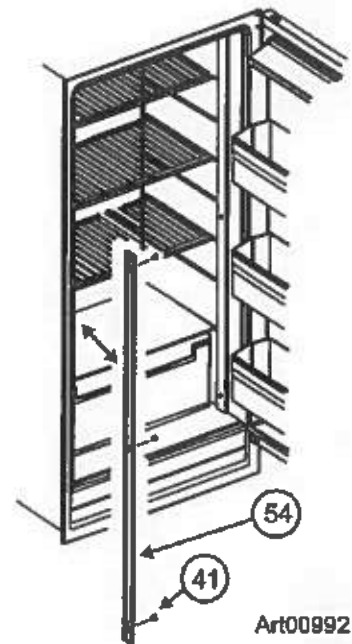
Door handles:

During travel, the door latch prevents the door from opening. When closing each door, push the door toward the refrigerator until you hear a "click" sound.

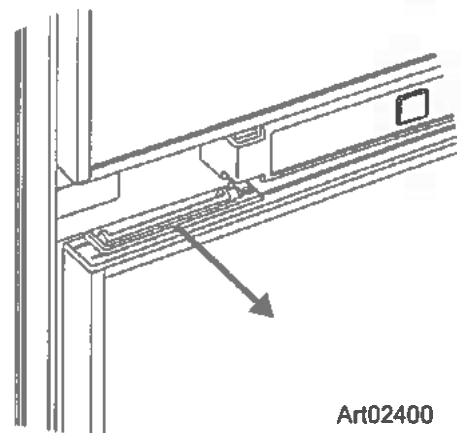
To open each door, pull the handle away from the refrigerator (See Art02400).



Art00989



Art00992



Art02400

Interior light:

The interior light is at the top of the fresh food compartment.

NOTICE

When the door is opened, the interior light comes on for a maximum of two (2) minutes. After two (2) minutes, the electronic controls of the refrigerator will automatically turn off the interior light. When you close the door, the electronic controls of the refrigerator will reset the timer. When you open the door again, the interior light will come on and the two (2) minute timer will also start again.

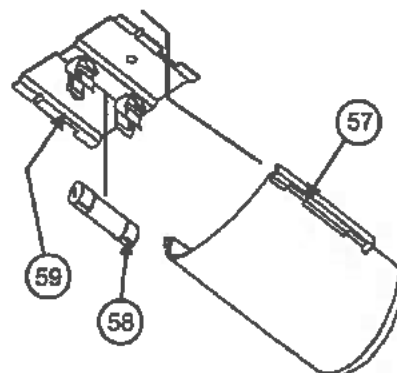
To replace the bulb:

1. Push and hold the POWER ON/OFF button for one second to turn off the refrigerator.
2. To remove the cover [57], push it toward the rear of the refrigerator (See Art00988).
3. Remove the light bulb [58] from the holder [59].

NOTICE

Use only a GE#214-2 bulb as the replacement bulb. This bulb is available at most retail automotive parts centers.

4. Install the replacement bulb.
5. Install the cover.
6. Push the POWER ON/OFF button to turn on the refrigerator.



Door alarm:

The refrigerator has an alarm to alert you if the fresh food compartment door is not closed. The refrigerator continues to operate, but if the fresh food compartment door is open and the interior light remains on for two minutes:

- An audible alarm starts.
- "dr" appears in the center display.
- The interior light automatically turns off.

Close the door to silence the alarm.

Moisture reduction heater:

The refrigerator has a heater that prevents moisture from forming on the center divider between the doors of the freezer and the fresh food compartment. The heater operates only when the refrigerator is ON and the DC power is sufficient.

Temperature control system:

Although the refrigerator is not frost-free, it is made to limit frost on the cooling fins. At regular intervals, the temperature control system automatically melts most of the frost from the cooling fins. The water from the cooling fins drains into a collection cup that is attached to the back of the refrigerator. The heat of the cooling system evaporates the water from the collection cup.

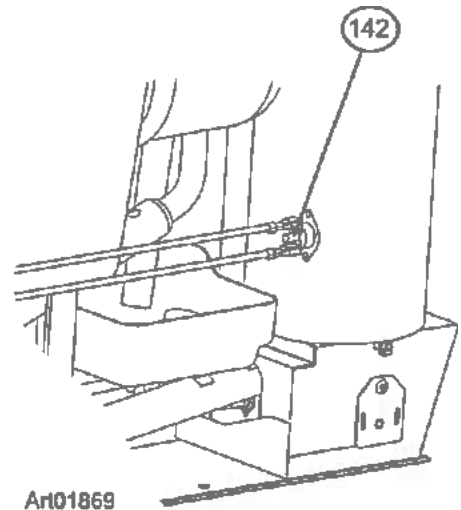
Backup operating system:

This refrigerator has a backup operating system. The backup operating system allows the refrigerator to continue to cool if the temperature sensor of the refrigerator should fail.

If this failure occurs:

- The refrigerator automatically changes to the backup operating system.

- When you push the TEMP SET button, the temperature setting flashes in the center display for ten seconds.
- The backup operating system can overfreeze or thaw the contents of the freezer and the fresh food compartment.
 - Make sure the temperatures of the freezer and the fresh food compartment are satisfactory.



Art01869

Temperature switch monitor:

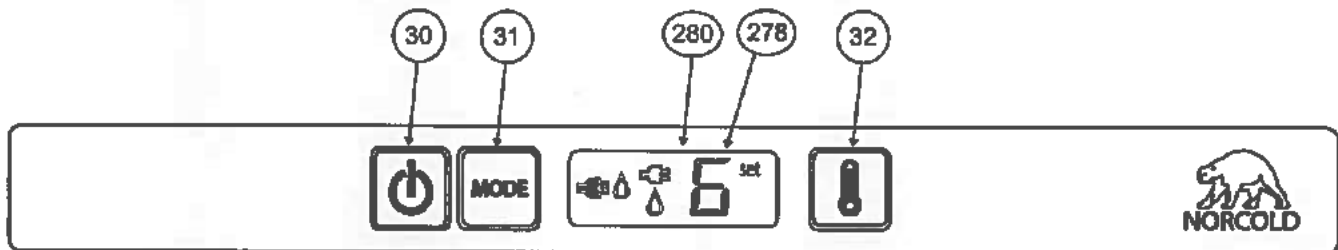
The refrigerator is equipped with a temperature switch [142] for overheating protection (See Art01869) . A Norcold authorized service technician can determine if this switch has been triggered.

NOTICE

If you open the door(s) too often, the temperatures inside the freezer and fresh food compartment do not become stable. Allow the refrigerator to operate for about one hour after each adjustment change before you examine the contents. The number "9" is the coldest temperature setting.

- If the temperature is too warm, push and hold the TEMP SET button to raise the temperature setting by one number.
- If the temperature is too cold, push and hold the TEMP SET button to lower the temperature setting by one number.
- Have the refrigerator serviced by your dealer or a Norcold authorized Service Center as soon as possible.

Operating the Refrigerator Controls



Art02397

Control panel:

The refrigerator control panel (See Art02397) is between the freezer compartment and the fresh food compartment. A 12 volt DC power supply is necessary for the control functions of the refrigerator to operate. The refrigerator receives DC power from the 12 volt system of the vehicle; either an auxiliary battery, a converter, or the vehicle engine battery.

The POWER ON/OFF button [30] starts and shuts down the refrigerator.

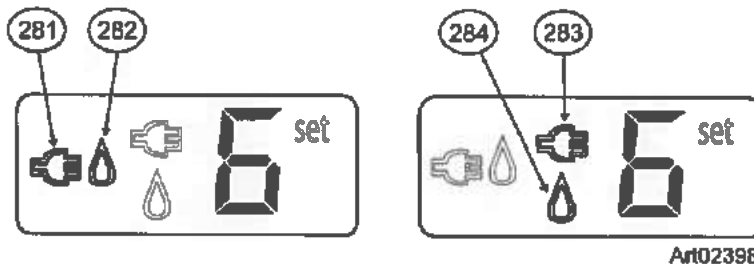
- Push and release the POWER ON/OFF button [30] to turn on the refrigerator.
- Push and hold the POWER ON/OFF button [30] for one second to turn off the refrigerator.

The MODE button [31] changes the modes of operation of the refrigerator.

- Push and hold the MODE button [31] to scroll through the available operation modes of the refrigerator, one after the other (See Art02397).
- When the desired mode indicator comes on, release the MODE button.

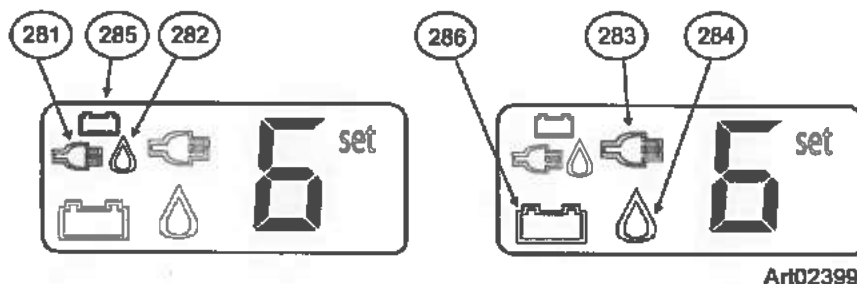
- Or push and release the MODE button again and again to change the available operation modes of the refrigerator, one at a time.
- As you change the mode, the applicable mode indicator will come on.

- On 2-way models, the mode indicators are (See Art02398):



- Auto mode AC electric [281].
- Auto mode gas [282].
- Manual mode AC electric [283].
- Manual mode gas [284].

- On 3-way models, the mode indicators are (See Art02399):



- Auto mode AC electric [281].
- Auto mode gas [282].
- Auto mode DC electric [285].
- Manual mode AC electric [283].
- Manual mode gas [284].
- Manual mode DC electric [286].

- Select one of three (3) modes of operation (four (4) modes of operation on 3-way models only):

AUTO mode	The refrigerator's electronic controls automatically select the the most efficient energy source that is available. Either the Auto mode AC indicator [281], the Auto mode gas indicator [282], or (on 3-way models only) the Auto mode DC indicator [285] comes on.
MANUAL AC mode	The refrigerator cools using only AC electric power as the power source. The Manual mode AC indicator [283] comes on.
MANUAL GAS mode	The refrigerator cools using only propane gas as the power source. The Manual mode gas indicator [284] comes on.
MANUAL DC mode	On 3-way models only, the refrigerator cools using only DC electric power as the power source. The Manual mode DC Indicator [286] comes on.

3. Select the temperature setting:

- Push and hold the TEMPERATURE SET button [32] to scroll through the temperature settings, one after the other (See Art02397).
- Or push and release the TEMPERATURE SET button again and again to change the temperature settings, one at a time.
- The temperature settings come on as numbers in the LCD.
 - Select one of nine (9) temperature settings:
 - The number one (1) is the warmest temperature setting.
 - The number nine (9) is the coldest temperature setting.

Automatic mode operation:

When the refrigerator is in AUTO mode, the electronic controls of the refrigerator automatically select and use the most efficient energy source that is available for operation.

During operation, if a more efficient energy source becomes available, the electronic controls of the refrigerator automatically changes from the current energy source to the more efficient energy source as follows:

- The first choice of operation is AC electric mode.
 - If AC electric is not available to the refrigerator, if the AC electric is outside of the permitted operating range, or if the AC heater does not operate; the electronic controls of the refrigerator automatically change to the second choice of operation.
- The second choice of operation is gas mode.
 - The refrigerator attempts to operate the propane gas burner. If unable to establish and maintain a flame, a "no" FL" fault code shows on the LCD. Refer to "Fault Codes" section of this manual.
 - On 3-way models only, the electronic controls of the refrigerator automatically change to the third choice of operation.
 - The third choice of operation is DC electric mode.
 - If the DC heater does not operate; a "dc" HE" fault code shows on the LCD. Refer to "Fault Codes" section of this manual.

Removing air from the propane gas supply lines:

For safety reasons, the burner is made to ignite on propane gas within a specified amount of time. When starting the refrigerator for the first time, after storage, or after replacing the propane gas tank, the propane gas supply lines can have air in them. Due to the air in the gas supply lines, the refrigerator may not ignite on propane gas within the specified amount of time.

To remove the air from the propane gas supply lines:

- Make sure that all of the gas valves are open.
- Push and release the POWER ON/OFF button [30] to turn on the refrigerator.
- Push and hold the MODE button [31] until the Manual mode gas indicator [284] is on.
- Push and release the TEMPERATURE SET button until the desired temperature setting shows.
- The refrigerator will start a 30 second trial for ignition.
 - During the 30 second trial for ignition, the refrigerator controls open the gas safety valve and the igniter sparks.
 - After 30 seconds, if the Manual mode gas indicator remains on, it means that the refrigerator is operating on propane gas.
 - At this time, all of the air is removed from the propane gas supply lines and you may select AUTO mode of operation if you wish.
- If the gas does not ignite within 30 seconds, the gas valve of the refrigerator will automatically close and a "no" "FL" fault code will show in the LCD. To reset the controls, press and hold the POWER ON/OFF button for 1 second to turn the refrigerator off, then press it again to restart the refrigerator and begin another 30 second trial for ignition.
 - Depending on how much air may be in the propane gas supply lines, you may need to repeat the 30 second trial for ignition two or three times.
 - If the burner does not ignite on propane gas after two or three attempts, stop and consult your local dealer or an authorized Norcold Service Center.

Set the controls to manual mode operation:

- Push and release the POWER ON/OFF button [30] to turn on the refrigerator.
- Push and hold the MODE button [31] until the desired Manual mode indicator comes on.
- On 3-way models, the mode indicators are (See Art02399):
 - Manual mode AC electric [283].
 - Manual mode gas [284].
 - Manual mode DC electric [286].

If the energy source is interrupted:

- A fault code shows in the LCD.
- Refer to the "Fault Codes" section of this manual.

Shut down:

- Push and hold the POWER ON/OFF button [30] for one second to turn off the refrigerator.

Effects of High Altitude on Propane Gas Operation

When you operate the refrigerator on propane gas at altitudes higher than 5500 feet above sea level:

- You may experience reduced cooling performance of the refrigerator.
- You may experience burner outages.

To avoid these possible problems, Norcold recommends that you operate the refrigerator on AC when at altitudes higher than 5500 feet above sea level.

Effects of Freezing Temperatures on Refrigerator Operation

A gas absorption refrigerator is not designed to operate in freezing temperatures. If the refrigerator is not equipped for low temperature operation, and if the cooling system of the refrigerator is exposed to temperatures of 32° F. or lower for an extended period of time, the refrigerator operation may be disrupted. The refrigerator operation will resume when the cooling system of the refrigerator warms sufficiently.

If the refrigerator is equipped for low temperature operation, the refrigerator will operate in temperatures down to 0° F.

Disrupted operation of the refrigerator, due to extended exposure to temperatures of 32° F. or lower, and any costs incurred to warm the cooling system of the refrigerator are not covered by the Norcold limited warranty. Please contact your local RV dealer for information about how to resume refrigerator operation or about how to equip your refrigerator for operation in freezing temperatures.

Do not change the installation or the venting of your refrigerator. Refrigerator failures which are the result of changes to either the refrigerator installation or to the venting, are not covered by the Norcold limited warranty.

Ice Maker (NX64IM and NX84IM models)

The ice maker is assembled to the refrigerators at the factory as optional equipment. If the refrigerator does not have a factory installed ice maker, one can not be added to the refrigerator at a later time.

The ice maker is fully automatic and will operate in ambient temperatures as low as 0° F. To allow operation at temperatures between 0° F. and 32° F., the ice maker has a heater on the solenoid water valve and on the water line between the solenoid water valve and the ice maker.

CAUTION The water line heater does not protect the water supply line from the vehicle shut off valve to the solenoid water valve on the back of the refrigerator.

When the freezer temperature of the refrigerator is low enough, the ice maker opens the water solenoid valve and fills the mold. The ice maker ejects the frozen ice into a storage bin. As the storage bin fills, the ice raises the shut-off arm until it turns off the ice maker. As you use the ice and lower the ice level in the storage bin, the shut-off arm also lowers. This turns the ice maker on and begins the process of making ice.

The ice maker operates on:

- Cold potable water at a pressure of 15 psi - 125 psi.
- 120 Volts AC (108 VAC min. - 132 VAC max.).

Ice maker operation:

1. Make sure the ice maker AC power connection is secure.
 - On NX64IM and NX84IM models, the refrigerator AC power cord supplies AC to the ice maker.
2. Open the water shut off valve of the vehicle.

NOTICE Make sure that the ice maker arm can move freely and does not touch the frozen foods in the freezer.

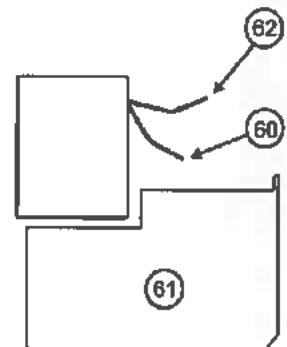
3. Push the ice maker arm down to the ON position [60] (See Art01015).

CAUTION if you operate the refrigerator without connecting the water supply line and/or opening the water shut off valve of the vehicle, make sure the ice maker arm is up in the OFF position.

4. Allow the freezer to cool enough and ice production will begin to fill the storage bin [61].

NOTICE New plumbing connections and/or impurities in the water supply line after winterizing can cause the first ice to be discolored or have an odd flavor.

5. To stop the ice maker, push the ice maker arm up to the OFF position [62].



Art01015

Refrigerator Care Checklist

Your refrigerator will give you years of trouble free service if you do these simple checks every three to six months:

- Keep the food compartment and the freezer clean. See "Cleaning".
- Defrost the refrigerator as necessary. See "Defrosting".
- Make sure the door seals correctly. See "Door Sealing".

- Be aware of any cooling changes that are not because of weather, loading, or gas control changes. If changes occur, contact your dealer or service center.
- Make sure the gas supply is propane gas only and not butane or a butane mixture.
- When in propane gas operation, examine the appearance of the flame. See "Gas Flame Appearance".
- Make sure the air flow in the lower intake vent, through the refrigerator coils and condenser, and out the upper exhaust vent is not blocked or decreased.
- Make sure the area behind the refrigerator is clear. Do not use the area behind the refrigerator for storage of anything, especially gasoline and other flammable vapors and liquids.

Defrosting

The cooling fins of the refrigerator operate at below freezing temperature and will naturally form frost from humidity, which is always present in the air. The humidity inside the refrigerator increases:

- with higher outside temperature and humidity.
- with the storage of non-sealed fresh foods or warm foods.
- with the amount of time that the door(s) are open.
- with any air leakage into the refrigerator.

Although the refrigerator is not frost-free, it is made to limit frost on the cooling fins. At regular intervals, the temperature control system automatically melts most of the frost from the cooling fins. The water from the cooling fins drains into a collection cup that is attached to the back of the refrigerator. The heat of the cooling system evaporates the water from the collection cup.

It is normal for frost to collect inside the freezer. Excess frost decreases the cooling performance of the refrigerator. Defrost the refrigerator and freezer as necessary:

- Remove all food from the refrigerator.
- Turn the refrigerator OFF.

NOTICE Defrosting the refrigerator makes excess water inside the refrigerator.

- Remove the drain hose from the drip cup at the rear of the refrigerator.
- Put the drain hose into a half-gallon or larger container to capture water.
- Put dry towels (etc.) inside the refrigerator and freezer to absorb melted frost.

CAUTION High temperatures can cause the inside surfaces of the refrigerator to warp or melt. Do not use pans of HOT water, a hair dryer, or any other high temperature devices to defrost the refrigerator. Do not use any hard or sharp objects to remove frost. Damage to the interior of the refrigerator can occur.

- To increase the speed of defrosting, put pans of WARM water in the refrigerator and freezer.
- Remove the wet towels (etc.) and dry the interior.
- Remove the drain hose from the large container and put the drain hose back into the drip cup.
- Remove the large container from the enclosure.
- Start up the refrigerator.
- Allow the refrigerator to cool down.
- Return all food to the refrigerator.

Cleaning

Interior:

A good time to clean the refrigerator is just after you defrost it. Clean the inside of the refrigerator as often as necessary to avoid food odors:

- Remove all food from the refrigerator.

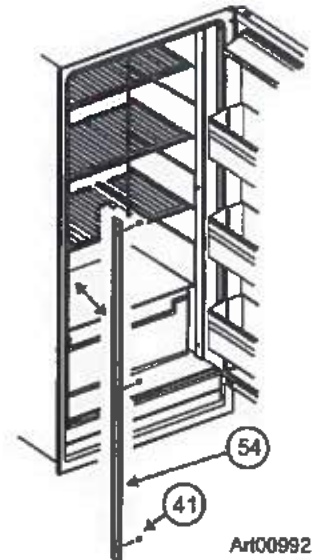
NOTICE Do not use abrasive cleaners, chemicals, or scouring pads because they can damage the interior of the refrigerator.

- Wash the interior with a mild cleaner or a solution of liquid dish detergent and warm water.
- Rinse with a solution of baking soda and clean water.
- Dry with clean cloth.
- Put all food in the refrigerator.

Drip tray:

To remove and clean the drip tray:

- Remove the screws [41] from the retainer [54] on the side of the refrigerator (See Art00992).
- Remove the retainer.
- Pull the self that is in front of the drip tray forward to remove from the refrigerator
- Make sure that the drip tray is empty of water.
- Pull the drip tray out of the drain hose.
- Pull the drip tray forward to remove from the slots in the refrigerator cabinet.
- Clean the drip tray.
- Push the drip tray back into the slots in the refrigerator cabinet.
- Push the drip tray back into the drain hose.
- Put the wire shelf back in the original position.
- Install the retainers with the screws.



Metal doors:

To clean the metal doors:

- Wash the doors with a mild cleaner or a solution of liquid dish detergent and warm water.
- Rinse with clean water.
- Dry with a clean cloth.

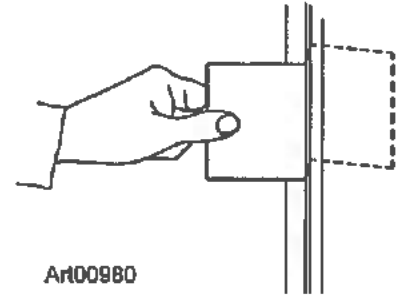
NOTICE Do not use abrasive cleaners, chemicals, or scouring pads because they can damage the metal doors.

Door Sealing

Check the seal of the doors.

If either door does not seal correctly, excess frost will collect inside the refrigerator. Make sure the doors seal correctly (See Art00980):

- Close each door on a piece of paper that is about the size and thickness of a dollar bill.
- Gently pull the paper.
 - You should feel a slight drag between the gasket and the cabinet.
 - Do this on all four sides of the door.
 - If you do not feel a slight drag on the paper, the door does not seal correctly.
 - Have your dealer or an authorized Norcold Service Center correct the seal of the door.



Refrigerator Maintenance Checklist

Read and understand the following maintenance sections of this manual.

NOTICE

Norcold is not responsible for installation, adjustment, alteration, service, or maintenance performed by anyone other than a qualified RV dealer or a Norcold authorized service center.

Have a qualified RV dealer or a Norcold authorized service center do these annual safety and maintenance checks:

- Examine the gas supply lines for leaks.
 - Replace or repair if needed.
- Make sure the propane gas pressure is 11 inches of water column.
 - Adjust if needed.
- Make sure the combustion seal is complete and intact.
 - Replace or repair it if needed.
- Make sure the burner and the burner orifice are clean.
 - Clean if needed.
- Make sure the electrode is clean and that the spark gap is 1/8 - 3/16 inch.
 - Adjust if needed.
- Make sure the AC voltage is 108 - 132 volts and the DC voltage is 10.5 - 15.4 volts.
- Make sure the area at the rear of the refrigerator is free of any combustible materials, gasoline, and other flammable vapors and liquids.

Refrigerator Storage

Before the refrigerator is stored for an extended (seasonal) period of time:

- Defrost and clean the interior of the refrigerator.

If the refrigerator is stored for an extended period of time, before start up:

- Make sure there are no obstructions in the vents, the ventilation air pathway, the burner, the orifice, or the flue area.

Ice Maker Storage (NX64IM and NX84IM models)

To prepare the ice maker for seasonal storage:

1. Close the vehicle water supply valve to the ice maker.
2. Push the ice maker arm up until it locks into the OFF position.
3. Remove the garden hose adapter from the water solenoid valve.
4. Remove the ice maker water line from the water solenoid valve
 - Do not unwrap the water line heater wires from around the water solenoid valve.
5. Drain all of the water from both the water supply line and the ice maker water line.
6. Put the end of the water supply line, the end of the ice maker water line, and the water solenoid valve each into a clean plastic bag.
7. Use tape to close each plastic bag around the water lines and the water solenoid valve.

To use the ice maker after seasonal storage:



Do not operate the ice maker when the ambient air temperature is 0° F. or lower. Damage to the water solenoid valve and the water supply line can occur.

1. Remove the tape and plastic bags from the end of the water supply line, the end of the ice maker water line, and the water solenoid valve.
2. Connect the ice maker water line to the water solenoid valve.
3. Connect the garden hose adapter to the water solenoid valve.
4. Push the ice maker arm down into the ON position.
5. Open the vehicle water supply valve to the ice maker.



You should discard and not use the first two batches of ice cubes. It will take about three cycles for the ice maker to make fully formed and clean ice cubes.

Refrigerator Maintenance

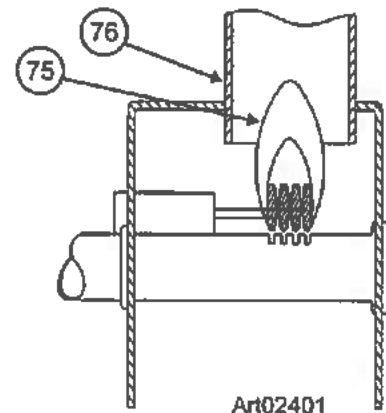
Gas flame appearance:

While in GAS operation, examine the appearance of the gas flame:

- Push and hold the TEMPERATURE SET button until the number "9" temperature setting comes on in the LCD.
- Open the lower intake vent.

CAUTION The burner box cover can be hot. Wear gloves to avoid burns.

- Remove the drip cup by removing the screw.
- Remove the burner box cover by removing the screw.
- Look at the gas flame [75] (See Art02401).
 - The flame should be:
 - a darker blue color on the inside of the flame and a lighter blue color on the outside of the flame.
 - a constant shape without flickering.
 - Contact your dealer or Norcold authorized service center if the flame is:
 - yellow
 - flickering or changing shape.
 - Make sure the flame does not touch the inside of the flue tube [76].
 - If the flame touches the inside of the flue tube, contact your dealer or Norcold authorized service center.
- Close the burner box door.



Remove and clean the burner orifice:

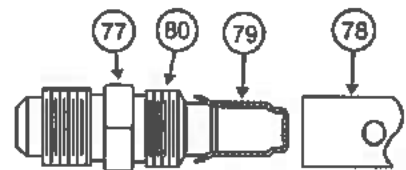
Your dealer or Norcold authorized service center must do this procedure.

Remove and clean the burner orifice (See Art00956):

- Close the valve at the propane gas tank(s).
- Push the ON / OFF button to shut down the refrigerator.

CAUTION The burner box cover can be hot. Wear gloves to avoid burns.

- Open the lower intake vent.
- Remove the drip cup by removing the screw.
- Remove the burner box cover by removing the screw.



WARNING To avoid possible propane gas leaks, always use two wrenches to loosen and tighten the gas supply line connections.

- Remove the flare nut from the orifice assembly [77] (See Art00956).
- Remove the orifice assembly from the burner [78].

WARNING Do not try to remove the orifice [79] from the orifice adapter [80] when cleaning. Removal will damage the orifice and seal of the orifice and can cause a propane gas leak. Leaking propane gas can ignite or explode which can result in dangerous personal injury or death. Do not clean the orifice with a pin or other objects.

- Clean the orifice assembly with air pressure and alcohol only.

- Using a wrench, assemble the orifice assembly to the burner.
- Assemble the flare nut to the orifice assembly.
- Examine all of the connections for gas leaks.
- Clean the burner box.
- Assemble the burner box cover.
- Assemble the drip cup.

Remove the Refrigerator

Your dealer or Norcold authorized service center must do this procedure.



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

1. Close the valve at the propane gas tank(s).



To avoid possible propane gas leaks, always use two wrenches to loosen and tighten the gas supply line connections.

2. Remove the black AC power cord and the white ice maker AC power cord (model N843-IM only) from the receptacle.
3. Remove the DC wiring from the refrigerator:
 - Put a mark on the DC wires so you can put them back in the correct location.
 - Remove the DC fuse or remove the DC wiring from the battery or the converter.
 - Remove the DC wires from the refrigerator.
4. Remove the gas supply line from the bulkhead fitting of the refrigerator.
5. Remove the plastic plugs from the mounting flanges of the refrigerator.
6. Remove the screws from the mounting flange at the rear of the refrigerator.
7. Remove the screws from the upper and lower mounting flanges on the front of the refrigerator.
8. Remove the refrigerator from the opening.

Reinstall the Refrigerator

Your dealer or Norcold authorized service center must do this procedure.



Make sure the combustion seal is not broken, is completely around the refrigerator mounting flanges, and is between the mounting flanges and the wall of the enclosure. If the combustion 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, and in extreme cases, death.

1. Push the refrigerator completely into the enclosure.
2. Install the screws in the upper and then the lower mounting flanges on the front of the refrigerator.

3. Install the screws in the mounting flange at the rear of the refrigerator.
4. Put the plastic plugs into the mounting flanges of the refrigerator.



To avoid possible propane gas leaks, always use two wrenches to loosen and tighten the gas supply line connections.

5. Attach the gas supply line to the bulkhead fitting of the refrigerator.
6. Open the valve at the propane gas tank(s).



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

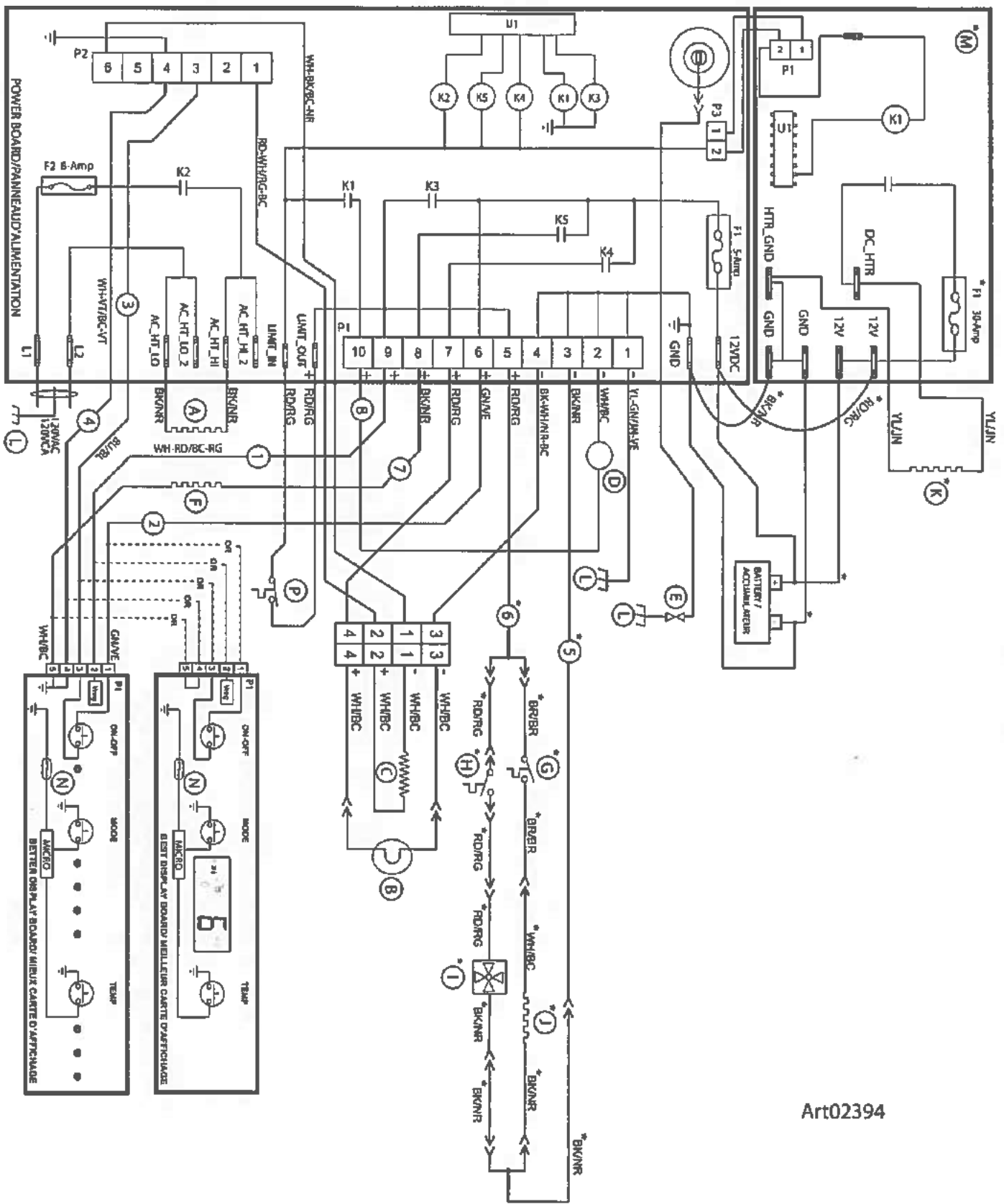
7. Examine the gas supply line for leaks.
8. Connect the DC wiring to the refrigerator:
 - Connect the DC wires to the refrigerator.
 - Install the DC fuse or connect the DC wiring to the battery or the converter.

Wiring Diagram and Pictorial

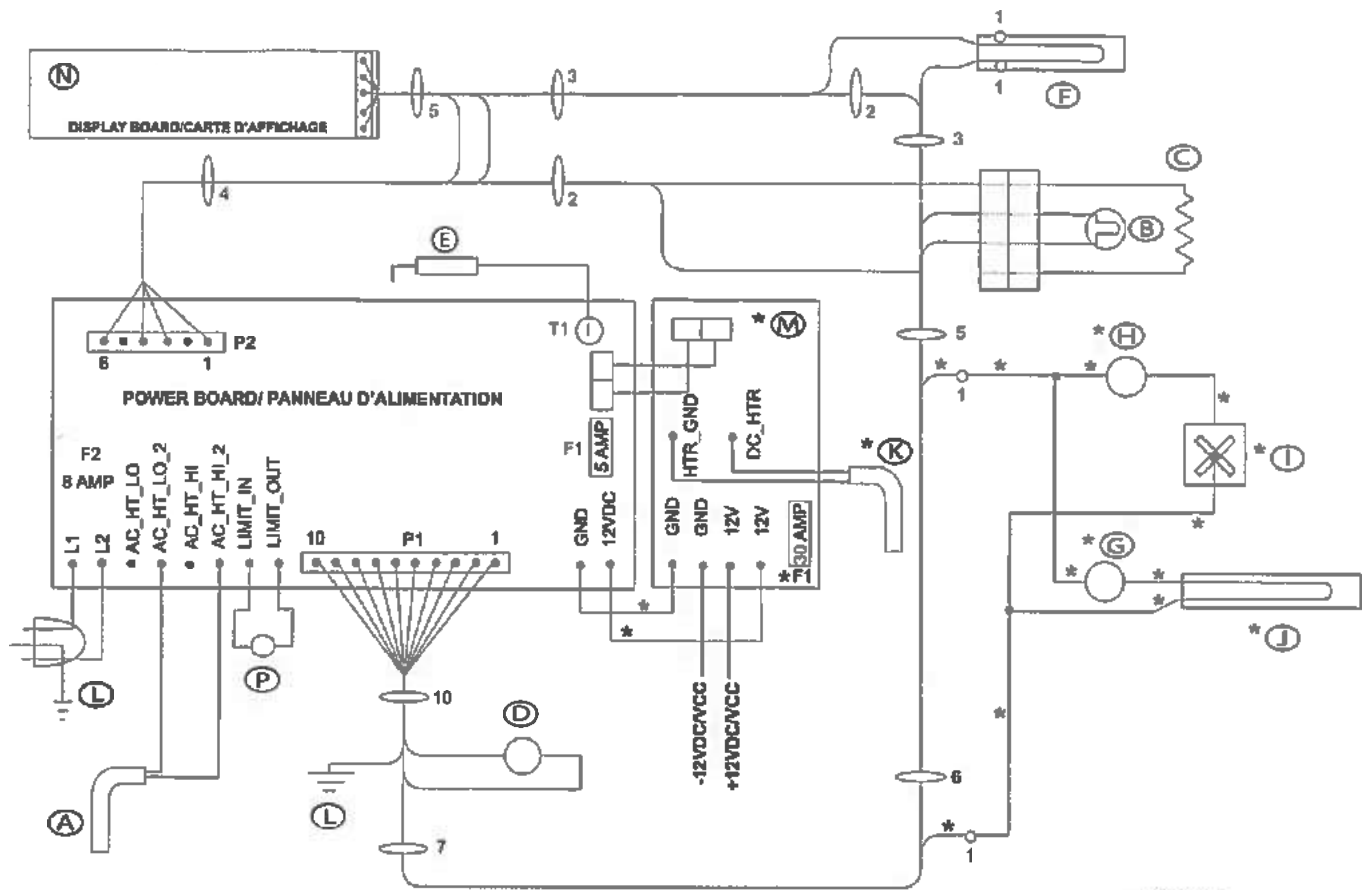
The parts in the wiring diagram are (See Art02394):

The parts in the wiring pictorial are (See Art02395):

AC heater	A
Light.....	B
Thermister	C
Gas valve.....	D
Igniter.....	E
Divider heater	F
Temperature switch (optional)	G
Temperature switch (optional)	H
Fan (optional)	I
Ice maker water line heater (optional)	J
DC Heater (optional).....	K
Chassis ground.....	L
DC board (optional)	M
Door switch.....	N
Temperature switch (optional)	P
Switched 12 VDC	1
Fused continuous 12VDC.....	2
Communications.....	3
Display ground.....	4
Auxiliary ground.....	5
Auxiliary +12 VDC	6
Divider +12 VDC.....	7
Gas valve +12 VDC.....	8
5 A Fuse DC	F1
30A Fuse DC (optional)	F1
8A Fuse AC.....	F2



Art02394

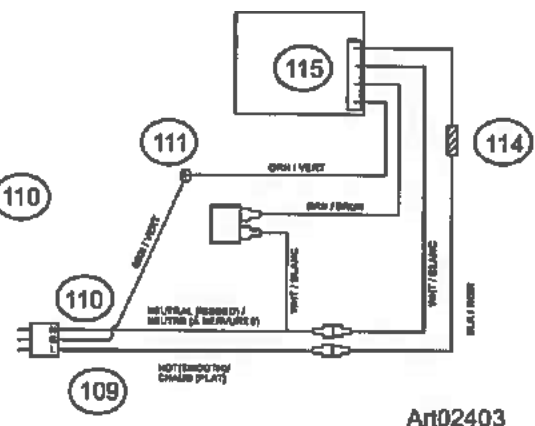
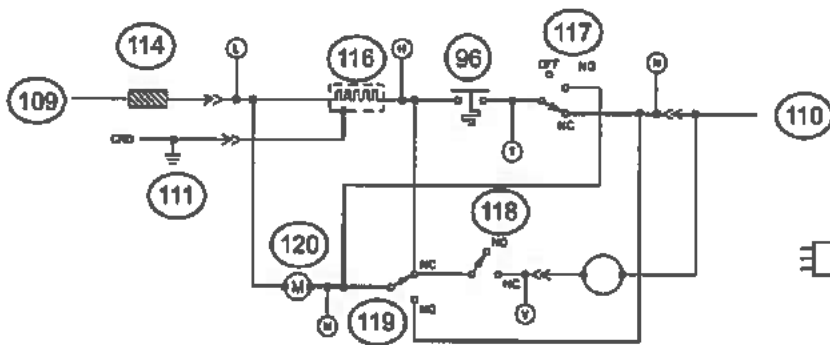


Art02395

Ice Maker Wiring Pictorial and Diagram (N64IM and N84IM models)

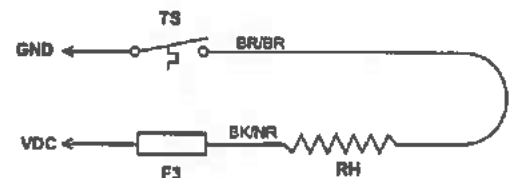
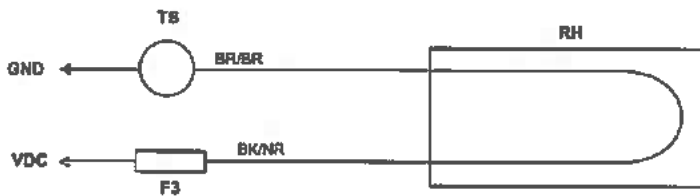
The parts of the ice maker wiring pictorial and diagram are (See Art02403):

120V AC Hot.....	109
Ground screw	111
Hot / smooth	112
Thermal Fuse	114
Ice maker.....	115
Mold Heater	116
Thermostat	96
Shut Off Switch.....	117
Fill Switch	118
Holding Switch.....	119
Motor	120
120V AC Neutral.....	110



Art02403

Wiring Diagram and Pictorial - Low Ambient Heater (optional)



Art02312-1

NOTICE This kit supplies DC voltage to the heater any time the ambient temperature is low enough. Extended storage during cold weather will drain the vehicle batteries. To prevent battery drain, remove the 3 amp fuse from the low ambient heater.

Replacement Parts

You may purchase replacement parts through your local RV dealer or authorized Norcold Service Center.

Fault Codes

Fault Codes	Fault Code Meaning	Corrective Actions
"dr" Audible alarm also.	The door was open for more than 2 minutes.	Close the door.
"no" "FL" Audible alarm also.	The burner did not ignite or re-ignite.	Check: <ul style="list-style-type: none"> - That the valve of the propane gas tank(s) is open. - That the propane gas is at the correct pressure. - That the manual shut off valve of the refrigerator is open. - That there is no air in the propane gas supply line. See "Removing air from the propane gas supply lines" section of the Owner's Manual. - See your dealer or authorized Norcold Service Center.
"no" "AC" Audible alarm also.	AC voltage is not available to the refrigerator.	Check: <ul style="list-style-type: none"> - That the refrigerator is plugged into a serviceable outlet. - That the fuse or circuit breaker or the vehicle is intact. - That the vehicle generator is operational (if applicable). - See your dealer or authorized Norcold Service Center.
"dc" "LO"	The DC voltage to the refrigerator is low.	Check: <ul style="list-style-type: none"> - That the battery charging equipment of the vehicle is operational. - That the AC/DC converter is operational (if applicable). - See your dealer or authorized Norcold Service Center.
"dc" "LO" Audible alarm also.	The DC voltage to the refrigerator is low.	Check: <ul style="list-style-type: none"> - That the battery charging equipment of the vehicle is operational. - That the AC/DC converter is operational (if applicable). - See your dealer or authorized Norcold Service Center.
"Sr" Audible alarm also.	This is a fault within the refrigerator controls.	Turn the refrigerator power OFF and then back on to reset. If the Fault Code continues, see your dealer or authorized Norcold Service Center.
Temperature setting flashes when TEMP SET or MODE button is pushed.	The refrigerator is operating on the Backup Operating System.	This is not owner serviceable. See your dealer or authorized Norcold Service Center.
"AC" "rE" Audible alarm also.	This is a fault within the refrigerator controls.	This is not owner serviceable. See your dealer or authorized Norcold Service Center.
"dc" "rE" Audible alarm also.	This is a fault within the refrigerator controls.	This is not owner serviceable. See your dealer or authorized Norcold Service Center.
"AC" "HE" Audible alarm also.	This is problem related to the AC heater.	This is not owner serviceable. See your dealer or authorized Norcold Service Center.
"dc" "HE" Audible alarm also.	This is problem related to the DC heater.	This is not owner serviceable. See your dealer or authorized Norcold Service Center.
"oP" "LI" Audible alarm also.	A temperature limit switch is open.	This is not owner serviceable. See your dealer or authorized Norcold Service Center.
"FL" "-.-" Audible alarm also.	A flame is present at the burner when there should be none.	This is not owner serviceable. See your dealer or authorized Norcold Service Center.

NORCOLD®



Manuel de l'utilisateur/propriétaire

Réfrigérateurs pour véhicules de plaisance modèles :

NX64	- 6 pi ³
NX64IM	- 6 pi ³ , avec machine à glaçons
NX84	- 8 pi ³
NX84IM	- 8 pi ³ , avec machine à glaçons

Les numéros de modèle des réfrigérateurs à triple alimentation comportent le suffixe "3". Les numéros de modèle des réfrigérateurs à double alimentation ne comportent pas de suffixe.

La lettre « X », dans les numéros de modèle ci-dessus, représente une lettre ou un chiffre correspondant à une option de réfrigérateur.



RISQUE D'INCENDIE OU D'EXPLOSION

Si vous sentez une odeur de gaz:

1. Ouvrez les fenêtres.
2. Éteignez toute flamme nue..
3. Ne pas toucher les interrupteurs électriques.
4. Éteignez toute flamme nue..
5. Coupez l'alimentation en combustible.
6. Évacuez immédiatement et appelez les services d'urgence

Ne pas suivre ces instructions peut provoquer un incendie ou une explosion, pouvant causer des dommages matériels, des blessures ou la mort.



Une faute d'installation, de réglage, de modification, de réparation ou d'entretien peut causer des préjudices corporels ou matériels. Se reporter à ce manuel. Pour obtenir de l'assistance ou des informations supplémentaires, s'adresser à un installateur qualifié, au service après-vente ou à la compagnie de gaz.

SÉCURITÉ PERSONNELLE

Ne pas conserver ni utiliser d'essence ou d'autres liquides inflammables, ou dont les vapeurs peuvent s'enflammer, à proximité de cet appareil ou de tout autre appareil électroménager.

Français

NORCOLD, Inc.
P.O. Box 4248
Sidney, OH 45365-4248 (États-Unis)

Service après-vente Norcold
Téléphone : 800-543-1219
Télécopieur : 734-769-2332
Site Web : www.norcold.com

Réf 638001B (10/21/2014)

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Sens de la prudence

Lire attentivement ce manuel et bien comprendre les instructions avant d'installer le réfrigérateur.

Être conscient des risques possibles d'accident lorsque le symbole d'alerte apparaît sur le manuel ou est placé sur le réfrigérateur. Un mot suit le symbole et identifie le type de risque. Lire attentivement la définition de ces risques pour bien les comprendre. Ces symboles ont été placés pour des raisons de sécurité.



Ce mot signifie, que si le risque est ignoré, il existe une possibilité de blessure grave, voire de mort ou de dégâts matériels importants.



Ce mot signifie, que si le risque est ignoré, il existe une possibilité de blessure légère ou de dégâts matériels.

Consignes de sécurité



- L'entreposage de produits inflammables derrière ou autour du réfrigérateur crée un risque d'incendie. Ne pas utiliser l'espace à l'arrière du réfrigérateur pour entreposer quoi que ce soit, et, en particulier, des produits inflammables (essence, produits nettoyants, etc.).
- Ne pas enlever la broche ronde de mise à la terre de l'un ou de l'autre des cordons d'alimentation. Ne pas utiliser d'adaptateur à deux broches ni de rallonge électrique avec l'un ou l'autre des cordons d'alimentation.
- Une surcharge de circuit peut déclencher un feu électrique si les fils et/ou fusibles ne sont pas du calibre approprié. N'utiliser que des fils et des fusibles de calibres indiqués dans le manuel d'installation.
- Une installation incorrecte, un mauvais réglage, la modification ou un entretien défectueux du réfrigérateur peuvent être cause de blessures graves, de dégâts matériels ou des deux. Faire faire tous les travaux d'entretien courant et d'entretien par le concessionnaire ou par un Centre d'entretien autorisé Norcold.
- Couper l'alimentation en courant alternatif et en courant continu avant toute opération d'entretien sur le réfrigérateur. Toutes les interventions sur le réfrigérateur doivent être effectuées par un technicien d'entretien qualifié.
- Ne pas remplacer les composants électriques ni modifier les caractéristiques de l'appareil et ne pas effectuer de dérivation.
- Lorsqu'un appareil ménager est mis au rebut, démonter toutes les portes pour éviter tout risque d'accident et de suffocation.
- Ne pas pulvériser de liquides près des prises électriques, raccords, ou près des éléments constitutifs du réfrigérateur. Beaucoup de liquides sont conducteurs et peuvent causer un choc électrique, des courts-circuits, et éventuellement provoquer un incendie.
- Le système de refroidissement du réfrigérateur est sous pression. Ne pas tenter de réparer ou de recharger un système de refroidissement défectueux. Le système contient du chromate de sodium. L'inhalation de certains composés de chrome peut être cause de cancer. Le produit du système de refroidissement peut causer des brûlures sévères des yeux et de la peau et il s'enflamme et brûle avec une flamme intense. Ne pas tordre, laisser tomber, souder, percer, déplacer, fissurer ni faire d'impact sur le système de refroidissement.
- À intervalles réguliers, vérifier que le conduit de fumée du réfrigérateur, le brûleur, les orifices de mise à l'air libre et le passage d'air de ventilation ne sont pas obstrués et qu'aucun produit inflammable ne se trouve à proximité. Après une période de stockage, il est très important de vérifier ces endroits afin de s'assurer que les animaux n'ont pas laissé de résidus inflammables ou qui peuvent obstruer les éléments en question.



- L'arrière du réfrigérateur comporte des angles et des bords effilés. Pour éviter les coupures et l'érosion de la peau lors des travaux sur le réfrigérateur, être très attentif, et porter des gants résistant aux coupures.

Votre réfrigérateur

Capacité :

Ce réfrigérateur a été conçu pour la conservation des denrées fraîches et des surgelés et pour fabriquer des glaçons.

	Modèles N600	Modèles N800
Capacité totale	6,3 pieds cubiques	7,5 pieds cubiques

Mise à niveau :



Cet appareil a été conçu pour fonctionner avec une dénivellation maximale de 3° d'un côté à l'autre et une dénivellation maximale de 6° d'avant en arrière (lorsqu'on regarde l'avant du réfrigérateur). Des dénivellations plus importantes peuvent endommager le système de réfrigération et entraîner un risque de blessures ou de dégâts matériels. S'assurer que le véhicule est de niveau avant d'utiliser le réfrigérateur.

Utilisation pendant le déplacement du véhicule :

Le réfrigérateur doit être de niveau lorsque le véhicule est à l'arrêt, mais la performance du réfrigérateur n'est normalement pas affectée lorsque le véhicule se déplace.

Compartiment de conservation des denrées fraîches :

Mettre en route le réfrigérateur et le laisser refroidir pendant huit heures avant d'entreposer des aliments. Si l'appareil ne produit pas de refroidissement après environ deux heures, entrer en rapport avec le concessionnaire ou un Centre d'entretien autorisé Norcold.

Pour obtenir le meilleur refroidissement possible :

- Assurer une bonne circulation de l'air dans tout le compartiment de conservation.
- Ne pas recouvrir les clayettes de plastique, papier, etc.

Pour diminuer la quantité de givre qui se forme sur les ailettes de refroidissement :

- Recouvrir tous les récipients contenant des liquides et des denrées humides.
- Laisser refroidir les aliments chauds avant de les mettre au réfrigérateur.
- Ne pas laisser la porte ouverte plus longtemps que nécessaire.

Compartiment basse température :

Le compartiment basse température sert à la conservation des surgelés, mais pas à congeler les aliments. Conserver les surgelés dans le compartiment basse température.



Ne rien poser sur le bac à glace pendant la formation des cubes de glace. L'eau se congèle plus rapidement si le thermostat est à la position correspondant à la température COLDEST.

Bac(s) à légumes :

Le(s) bac(s) à légumes est (sont) situé(s) à la partie inférieure du compartiment de conservation des denrées fraîches et permet(tent) de conserver la fraîcheur des fruits et légumes. S'assurer de bien pousser le(s) bac(s) à fond.



Ne pas nettoyer les bacs au lave-vaisselle, ils ne résistent pas au lave-vaisselle.

Casiers de porte :

Les casiers de porte [52] du compartiment de conservation des denrées fraîches et du compartiment basse température peuvent être déplacés pour satisfaire les besoins de chaque utilisateur (se reporter à Art00989). Pour enlever un casier, le soulever au-dessus du repère de positionnement et le tirer vers l'avant. Le pousser en place dans les nouveaux repères de positionnement.



Ne pas nettoyer les casiers ni les glissières de casier au lave-vaisselle, ils ne résistent pas au lave-vaisselle.

Glissière de casier de porte :

Chaque casier de porte comporte une glissière réglable [53] pour éviter que le contenu du casier se déplace ou se renverse pendant le déplacement du véhicule (se reporter à Art 00989).

Pousser chaque glissière contre le contenu du casier. Pour déposer la glissière, la sortir en imprimant un mouvement de rotation. Pour la remettre en place, imprimer également un mouvement de rotation.

Clayettes réglables :

Les clayettes du compartiment de conservation des denrées fraîches et du compartiment basse température sont amovibles et réglables en position.

Pour déposer ou déplacer la clayette du compartiment basse température :

- Sortir la clayette des encoches en la tirant vers l'avant.
- La pousser en place dans les encoches à la position choisie.

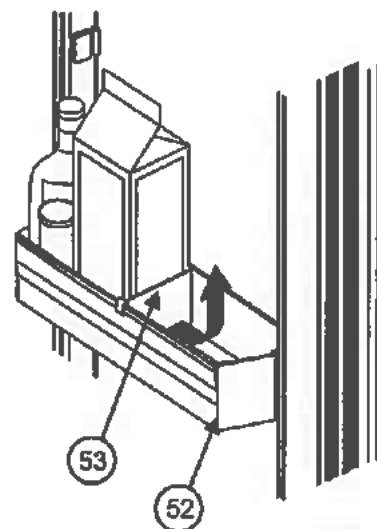
Pour déposer ou déplacer les clayettes du compartiment de conservation des denrées fraîches :

- Enlever les vis [41] de la pièce de retenue de chaque clayette [54] sur le côté du réfrigérateur (se reporter à Art00992).
- Enlever la pièce de retenue.
- Sortir chaque clayette des encoches en la tirant vers l'avant.
- Pousser les clayettes en place à la position choisie.
- Fixer la pièce de retenue avec la vis.

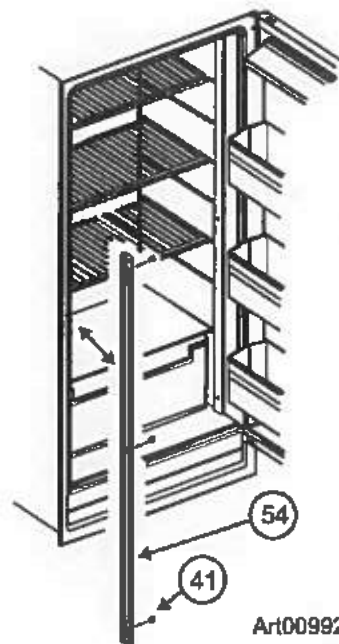
Poignées de porte :

Pendant le déplacement du véhicule, le dispositif de blocage d'ouverture de porte empêche l'ouverture de la porte. Pour fermer chaque porte, pousser la porte vers le réfrigérateur jusqu'à ce qu'on entende un « clic ».

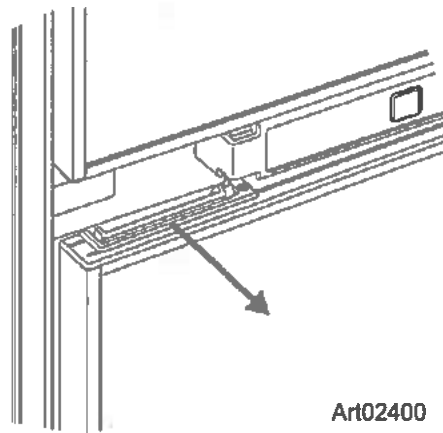
Pour ouvrir chaque porte, tirer sur la poignée (se reporter à Art02400).



Art00989



Art00992



Art02400

Éclairage intérieur :

La lumière intérieure se trouve en haut du compartiment de denrées fraîches.

AVIS

Lorsque la porte est ouverte, la lumière intérieure s'allume pendant deux (2) minutes au maximum. Au bout de deux (2) minutes, les commandes électroniques du réfrigérateur éteignent automatiquement la lumière intérieure. Lorsque la porte se ferme, les commandes électroniques du réfrigérateur réinitialisent la minuterie. Lorsque la porte est réouverte, la lumière intérieure s'allume et la minuterie se met aussi de nouveau en marche pour deux (2) minutes.

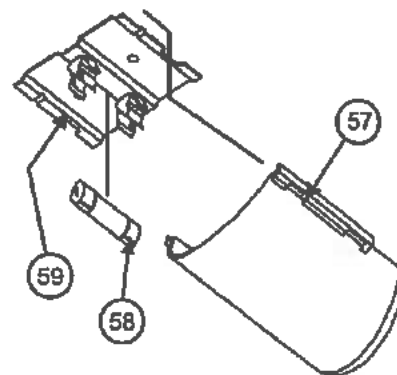
Pour remplacer l'ampoule :

1. Appuyer sur le bouton MARCHE/ARRÊT DE L'ALIMENTATION et le maintenir enfoncé pendant une seconde pour arrêter le réfrigérateur.
2. Pour déposer le couvercle [57], le pousser vers l'arrière du réfrigérateur (se reporter à Art00988).
3. Enlever l'ampoule [58] de la douille [59].

AVIS

N'utiliser qu'une ampoule GE n°214-2 comme ampoule de remplacement. Ce modèle est disponible chez la plupart des revendeurs de pièces de rechange pour l'automobile.

4. Monter l'ampoule de remplacement.
5. Remettre le couvercle en place.
6. Appuyer sur le bouton MARCHE/ARRÊT DE L'ALIMENTATION pour mettre le réfrigérateur en marche.



Art00988

Alarme de porte :

Le réfrigérateur est équipé d'un système d'alarme qui se déclenche lorsque la porte du compartiment de conservation des denrées fraîches n'est pas fermée. Le réfrigérateur continue de fonctionner, mais lorsque la porte est ouverte et que l'éclairage intérieur reste allumé pendant deux minutes :

- Une alarme sonore se fait entendre.
- Le code « dr » apparaît sur l'afficheur central.
- L'éclairage intérieur est automatiquement coupé.

Fermer la porte pour arrêter l'alarme.

Système de réduction de l'humidité :

Le réfrigérateur est équipé d'un système de chauffage qui empêche la formation d'humidité sur la paroi centrale entre les deux portes des compartiments basse température et sur le joint de porte mobile. Ce système de chauffage ne fonctionne que lorsque le réfrigérateur est en route et que l'alimentation en courant continu est suffisante.

Système de régulation de la température :

Le réfrigérateur, bien qu'il ne soit pas du type sans givre, a été conçu pour limiter l'accumulation de givre sur les ailettes de refroidissement. Le système de régulation de la température fait fondre automatiquement à intervalles réguliers la plus grosse partie du givre accumulé sur les ailettes de refroidissement. L'eau ainsi formée s'écoule dans un bac de récupération fixé à l'arrière du réfrigérateur. La chaleur dégagée par le système de refroidissement évapore l'eau du bac de récupération.

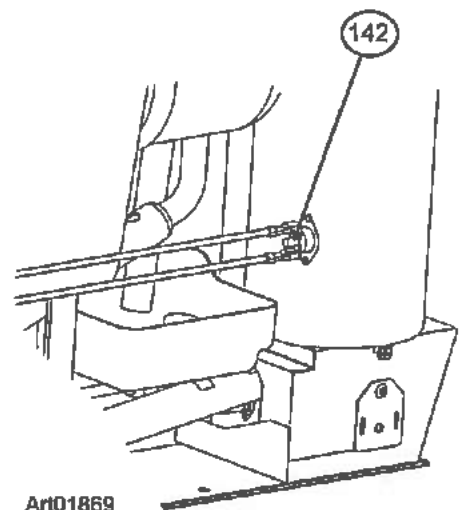
Système de secours :

Ce réfrigérateur est équipé d'un système de secours. Ce système permet d'assurer le refroidissement en cas de défaillance de la sonde de température de l'appareil.

En cas de défaillance de la sonde de température :

- Le réfrigérateur sélectionne automatiquement le système de secours.

- Lorsqu'on enfonce le bouton TEMP SET, la sélection de température affichée clignote pendant dix secondes.
- Le système de secours peut congeler ou décongeler les denrées se trouvant dans le compartiment basse température et le compartiment de conservation des denrées fraîches.
- S'assurer que la température dans les compartiments basse température et de conservation des denrées fraîches est satisfaisante.



Art01869

Dispositif de surveillance de l'interrupteur de température :

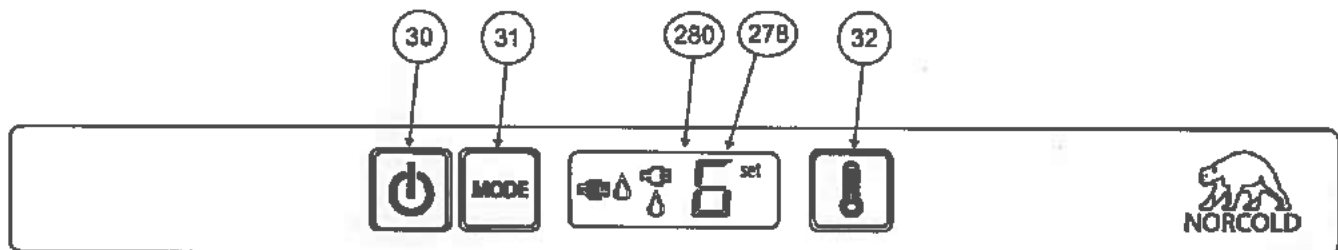
Le réfrigérateur est muni d'un interrupteur de température [142] pour la protection contre la surchauffe (voir Art01851). Un technicien d'entretien agréé Norcold peut déterminer si cet interrupteur s'est déclenché.

AVIS

La température dans le compartiment basse température et celle dans le compartiment de conservation des denrées fraîches peuvent devenir instables lorsqu'on ouvre la porte trop souvent. Laisser le réfrigérateur fonctionner pendant environ une heure après chaque sélection de température avant d'examiner le contenu. Le numéro «9» correspond à la température la plus basse.

- Si la température est trop élevée, enfoncez et maintenez enfoncé le bouton TEMP SET pour passer au chiffre supérieur.
- Si la température est trop basse, enfoncez et maintenez enfoncé le bouton TEMP SET pour passer au chiffre inférieur.
- Faire examiner le réfrigérateur par un Centre d'entretien autorisé Norcold ou par le concessionnaire dès que possible.

Commandes du réfrigérateur



Art02397

Panneau de commande :

Le panneau de commande du réfrigérateur (se reporter à Art02397) se trouve entre le compartiment basse température et le compartiment de conservation des denrées fraîches. Les commandes fonctionnent sur courant continu 12 volts. L'alimentation 12 V.c.c. provient du véhicule, c'est à dire d'une batterie auxiliaire, d'un convertisseur ou de la batterie du moteur du véhicule.

Le bouton MARCHE/ARRÊT DE L'ALIMENTATION [30] allume et éteint le réfrigérateur :

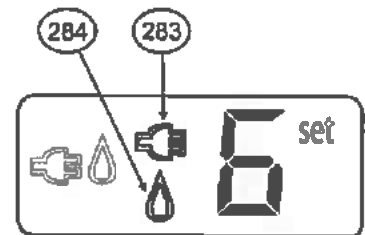
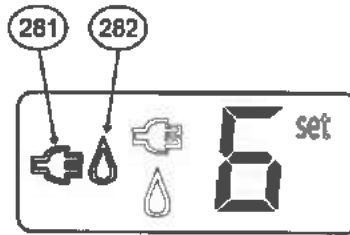
- Appuyer sur le bouton MARCHE/ARRÊT DE L'ALIMENTATION [30] et le relâcher pour mettre le réfrigérateur en marche.
- Appuyer sur le bouton MARCHE/ARRÊT DE L'ALIMENTATION [30] et le maintenir enfoncé pendant une seconde pour arrêter le réfrigérateur.

Le bouton MODE [31] change les modes de fonctionnement du réfrigérateur.

- Appuyer sur le bouton MODE [31] et le maintenir enfoncé pour faire défiler l'un après l'autre les modes de fonctionnement disponibles du réfrigérateur (voir Art02397).
- Lorsque l'indicateur de mode désiré s'allume, relâcher le bouton MODE.

- Sinon, appuyer sur le bouton MODE et le relâcher de manière répétée pour changer un par un les modes de fonctionnement disponibles du réfrigérateur.
- À mesure que le mode est changé, l'indicateur de mode concerné s'allume.

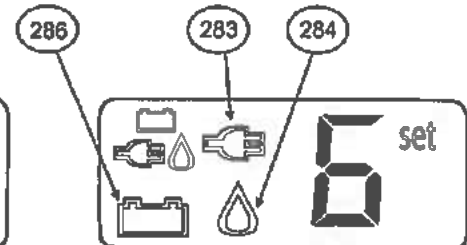
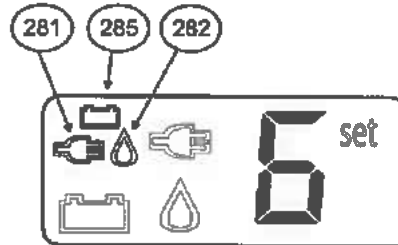
- Sur les modèles à double alimentation, les indicateurs de mode sont les suivants (voir Art02398) :



Art02398

- Mode Auto courant électrique c.a. [281].
- Mode Auto gaz [282].
- Mode Manuel courant électrique c.a. [283].
- Mode Manuel gaz [284].

- Sur les modèles à triple alimentation, les indicateurs de mode sont les suivants (voir Art02399) :



Art02399

- Mode Auto courant électrique c.a. [281].
- Mode Auto gaz [282].
- Mode Auto courant électrique c.c. [285].
- Mode Manuel courant électrique c.a. [283].
- Mode Manuel gaz [284].
- Mode Manuel courant électrique c.c. [286].

- Sélectionner l'un des trois (3) modes de fonctionnement (quatre (4) modes de fonctionnement sur les modèles à triple alimentation uniquement) :

Mode AUTO	Les commandes électroniques du réfrigérateur sélectionnent automatiquement la source d'énergie la plus efficace disponible. L'un des indicateurs de mode Auto c.a. [281], Auto gaz [282] ou (sur les modèles à triple alimentation uniquement) Auto c.c. [285] s'allume.
Mode MANUEL c.a.	Le réfrigérateur refroidit en utilisant seulement le courant électrique c.a. comme source d'alimentation. L'indicateur de mode Manuel c.a. [283] s'allume.
Mode MANUEL GAZ	Le réfrigérateur refroidit en utilisant seulement le gaz propane comme source d'alimentation. L'indicateur de mode Manuel gaz [284] s'allume.
Mode MANUEL c.c.	Sur les modèles à triple alimentation uniquement, le réfrigérateur refroidit en utilisant seulement le courant électrique c.c. comme source d'alimentation. L'indicateur de mode Manuel c.c. [286] s'allume.

3. Sélectionner le réglage de température :

- Appuyer sur le bouton RÉGLAGE TEMPÉRATURE [32] et le maintenir enfoncé pour faire défiler l'un après l'autre les réglages de température (voir Art02397).
- Sinon, appuyer sur le bouton RÉGLAGE TEMPÉRATURE et le relâcher de manière répétée pour changer un par un les réglages de température.
- Les réglages de température s'inscrivent sous forme de chiffres sur l'écran à cristaux liquides.
 - Sélectionner l'un des neuf (9) réglages de température :
 - Le chiffre un (1) correspond à la température la plus élevée.
 - Le chiffre neuf (9) correspond à la température la plus basse.

Fonctionnement en mode automatique :

En mode AUTO, les commandes électroniques du réfrigérateur sélectionnent et utilisent automatiquement la source d'énergie la plus efficace disponible.

Si une source d'énergie plus efficace devient disponible en cours de fonctionnement, les commandes électroniques du réfrigérateur la sélectionnent automatiquement :

- Le premier choix est un fonctionnement en mode courant électrique c.a.
 - Si le courant électrique c.a. n'est pas disponible pour le réfrigérateur, s'il se situe en dehors de la plage de fonctionnement permise ou si la chauffelette c.a. ne fonctionne pas, les commandes électroniques du réfrigérateur passent automatiquement au deuxième choix de fonctionnement.
- Le deuxième choix est un fonctionnement en mode gaz.
 - Le réfrigérateur tente de faire fonctionner le brûleur à gaz propane. S'il est incapable d'allumer et de maintenir une flamme, un code d'anomalie « no » « FL » s'affiche sur l'écran à cristaux liquides. Consulter la section « Codes d'anomalie » dans ce manuel.
 - Sur les modèles à triple alimentation uniquement, les commandes électroniques du réfrigérateur passent automatiquement au troisième choix de fonctionnement.
 - Le troisième choix est un fonctionnement en mode courant électrique c.c.
 - Si la chauffelette c.c. ne fonctionne pas, un code d'anomalie « dc » « HE » s'affiche sur l'écran à cristaux liquides. Consulter la section « Codes d'anomalie » dans ce manuel.

Purge d'air des tuyaux d'arrivée de gaz propane :

Pour des raisons de sécurité, le brûleur est fait pour s'allumer au contact du gaz propane dans un délai donné. La première fois que le réfrigérateur est mis en marche, après son entreposage ou après le changement de la bouteille de gaz propane, il est possible qu'il reste de l'air dans les tuyaux d'arrivée de gaz propane. Dans ce cas, le réfrigérateur risque d'avoir du mal à s'allumer au gaz propane dans le délai imparti.

Pour purger l'air des tuyaux d'arrivée de gaz propane :

- Vérifier que tous les robinets de gaz sont ouverts.
- Appuyer sur le bouton MARCHE/ARRÊT DE L'ALIMENTATION [30] et le relâcher pour mettre le réfrigérateur en marche.
- Appuyer sur le bouton MODE [31] et le maintenir enfoncé jusqu'à ce que l'indicateur de mode Manuel gaz [284] soit allumé.
- Appuyer sur le bouton RÉGLAGE TEMPÉRATURE et le relâcher jusqu'à ce que le réglage de température désiré s'affiche.
- Le réfrigérateur entame un essai d'allumage de 30 secondes.
 - Durant cet essai de 30 secondes, les commandes du réfrigérateur ouvrent la valve de sécurité et l'allumeur produit une étincelle.
 - Au bout de 30 secondes, si l'indicateur de mode Manuel gaz reste allumé, cela signifie que le réfrigérateur fonctionne au gaz propane.
 - Tout l'air est désormais purgé des tuyaux d'arrivée de gaz propane et, si désiré, le mode de fonctionnement AUTO peut être sélectionné.
- Si le gaz ne s'allume pas dans les 30 secondes, le robinet de gaz du réfrigérateur se ferme automatiquement et un code d'anomalie « no » « FL » s'affiche sur l'écran à cristaux liquides. Pour réinitialiser les commandes, appuyer sur le bouton MARCHE/ARRÊT DE L'ALIMENTATION et le maintenir enfoncé pendant 1 seconde pour éteindre le réfrigérateur, puis appuyer de nouveau dessus pour redémarrer le réfrigérateur et entamer un autre essai d'allumage de 30 secondes.
 - Selon la quantité d'air restant dans les tuyaux d'arrivée de gaz propane, il peut s'avérer nécessaire de répéter à deux ou trois reprises l'essai d'allumage de 30 secondes.
 - Si le brûleur ne s'allume pas au gaz propane au bout de deux ou trois tentatives, s'arrêter et contacter le concessionnaire ou un centre de service après-vente agréé Norcold.

Réglage des commandes pour le fonctionnement en mode manuel :

- Appuyer sur le bouton MARCHE/ARRÊT DE L'ALIMENTATION [30] et le relâcher pour mettre le réfrigérateur en marche.
- Appuyer sur le bouton MODE [31] et le maintenir enfoncé jusqu'à ce que l'indicateur de mode Manuel désiré s'allume.
- Sur les modèles à triple alimentation, les indicateurs de mode sont les suivants (voir Art02399) :
 - Mode Manuel courant électrique c.a. [283].
 - Mode Manuel gaz [284].
 - Mode Manuel courant électrique c.c. [286].

En cas d'interruption de la source d'énergie :

- Un code d'anomalie apparaît sur l'écran à cristaux liquides.
- Consulter la section « Codes d'anomalie » dans ce manuel.

Mise à l'arrêt :

- Appuyer sur le bouton MARCHE/ARRÊT DE L'ALIMENTATION [30] et le maintenir enfoncé pendant une seconde pour arrêter le réfrigérateur.

Effets de l'altitude sur le fonctionnement au gaz propane

Lorsque le réfrigérateur est utilisé en fonctionnement au gaz propane à une altitude supérieure à 5500 pieds au-dessus du niveau de la mer :

- La capacité de refroidissement du réfrigérateur peut se trouver affectée.
- Le brûleur peut s'éteindre.

Pour éviter ces problèmes potentiels, Norcold recommande de faire fonctionner le réfrigérateur sur courant alternatif à des altitudes supérieures à 5500 pieds au-dessus du niveau de la mer.

Effets des températures de congélation sur le fonctionnement du réfrigérateur

Les réfrigérateurs à absorption de gaz ne sont pas conçus pour fonctionner à des températures de congélation. Si le réfrigérateur n'est pas équipé pour fonctionner à basse température et que son système frigorifique est exposé à des températures inférieures ou égales à 32 °F pendant une période prolongée, son fonctionnement risque d'être perturbé. Son fonctionnement reprendra alors une fois son système frigorifique suffisamment réchauffé.

Si le réfrigérateur est équipé pour fonctionner à basse température, il peut fonctionner à des températures allant jusqu'à 0 °F.

Les perturbations du fonctionnement du réfrigérateur dues à une exposition prolongée à des températures inférieures ou égales à 32 °F et les coûts subis pour réchauffer le système frigorifique du réfrigérateur ne sont pas couverts par la garantie limitée Norcold. Veuillez vous adresser à votre concessionnaire local de véhicules de loisirs pour obtenir les renseignements nécessaires sur la reprise du fonctionnement du réfrigérateur ou sur la façon d'équiper votre réfrigérateur en vue de son fonctionnement à des températures de congélation.

Ne pas modifier l'installation ni la ventilation du réfrigérateur. Les pannes de réfrigérateur dues à des modifications apportées à l'installation ou à la ventilation du réfrigérateur ne sont pas couvertes par la garantie limitée de Norcold.

Machine à glaçons (modèles NX64IM et NX84IM)

La machine à glaçons est installée à l'usine comme équipement en option. Il n'est pas possible d'installer une machine à glaçons sur le réfrigérateur une fois l'appareil sorti d'usine.

La machine à glaçons est entièrement automatique et fonctionne à des températures ambiantes aussi basses que 0° F. Pour permettre le fonctionnement à des températures comprises entre 0° F et 32° F, la machine à glaçons est équipée d'un dispositif de réchauffage situé sur l'électrovalve d'eau et sur la canalisation d'eau entre l'électrovalve et la machine à glaçons. Si la température descend sous 0° F, il faut stocker la machine à glaçons en suivant les instructions de la section « Stockage de la machine à glaçons » de ce manuel.



Le dispositif de réchauffage situé sur la canalisation d'eau ne protège pas la canalisation d'alimentation en eau entre le robinet d'arrêt du véhicule et l'électrovalve située à l'arrière du réfrigérateur.

Lorsque la température du compartiment basse température est suffisamment basse, la machine ouvre l'électrovalve d'eau et l'eau remplit le moule. La machine éjecte ensuite les glaçons dans un bac de stockage. Les glaçons relèvent le bras d'arrêt de production de glaçons jusqu'à ce que la machine interrompe la fabrication des glaçons. Le bras d'arrêt s'abaisse au fur et à mesure de l'utilisation des glaçons jusqu'à ce que la machine reprenne la fabrication des glaçons.

Besoins de la machine à glaçons :

- Eau potable froide à une pression comprise entre 15 et 125 lb/po².
- 120 V c.a. (108 V mini – 132 V maxi).

Fonctionnement :

1. S'assurer que l'alimentation de la machine à glaçons en courant alternatif est assurée.

- Sur les modèles N64XIM et N84XIM, le cordon d'alimentation du réfrigérateur en courant alternatif alimente également la machine à glaçons.

2. Ouvrir le robinet d'arrêt d'eau du véhicule.



S'assurer que le bras de la machine à glaçons peut se déplacer librement et n'entre pas en contact avec les surgelés du compartiment basse température.

3. Placer le bras en position basse (ON) [60] (se reporter à Art01015).



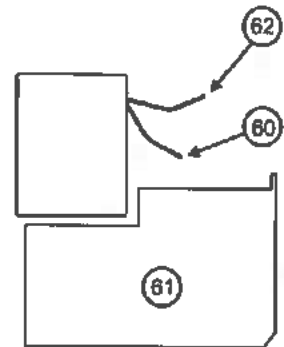
Si le réfrigérateur est utilisé sans que la canalisation d'alimentation en eau soit raccordée et/ou que le robinet d'arrêt d'eau du véhicule soit ouvert, s'assurer que le bras de la machine à glaçons est à la position OFF.

4. Laisser le compartiment basse température refroidir suffisamment et la production de glace pourra démarrer pour remplir le bac de stockage [61].



Lorsque la canalisation d'eau vient d'être installée ou suite à la présence d'impuretés après hivernisation, les glaçons peuvent être décolorés ou avoir un goût bizarre.

5. Pour arrêter la production des glaçons, placer le bras à la position OFF [62].



Art01015

Liste des opérations d'entretien courant

Le réfrigérateur peut fonctionner pendant de nombreuses années sans aucun problème si les opérations simples suivantes sont effectuées tous les trois à six mois.

- Conserver le compartiment de conservation des denrées fraîches et le compartiment basse température en bon état de propreté. Se reporter à « Nettoyage ».
- Dégivrer le réfrigérateur suivant besoin. Se reporter à « Dégivrage ».
- S'assurer que l'étanchéité de la porte est satisfaisante. Se reporter à « Étanchéité des portes ».

- Surveiller les changements de qualité du refroidissement qui ne sont pas la conséquence des conditions météorologiques, du chargement ou du débit du gaz. Dans ce cas, entrer en rapport avec le concessionnaire ou avec un Centre d'entretien autorisé Norcold.
- S'assurer que le gaz utilisé est du propane et non du butane ou un mélange de butane.
- En fonctionnement au gaz propane, examiner l'aspect de la flamme. Se reporter à «Vérification de l'aspect de la flamme».
- S'assurer que la circulation de l'air de la prise d'air inférieure, autour du serpentin du réfrigérateur et du condenseur et par le dispositif d'évacuation supérieur n'est pas ralentie ni bloquée.
- S'assurer que l'espace à l'arrière du réfrigérateur n'est pas encombré. Ne pas utiliser l'espace à l'arrière du réfrigérateur pour entreposer des matériaux inflammables, en particulier de l'essence et d'autres liquides et vapeurs inflammables.

Dégivrage

Les ailettes de refroidissement du réfrigérateur fonctionnent à des températures de gel et il est normal qu'au contact de l'humidité de l'air elles se couvrent de givre. L'humidité à l'intérieur du réfrigérateur augmente :

- proportionnellement à la température et à l'humidité extérieures.
- lorsque des aliments frais non recouverts ou des aliments encore chauds sont placés dedans.
- d'autant plus que la ou les portes sont laissées longtemps ouvertes.
- si le réfrigérateur présente des fuites d'air.

Bien qu'il ne s'agisse pas d'un modèle sans givre, ce réfrigérateur est conçu pour limiter l'accumulation de givre sur les ailettes de refroidissement. À intervalles réguliers, le système de commande de température dégivre automatiquement les ailettes de refroidissement. L'eau qui en résulte tombe dans une cuve fixée au dos du réfrigérateur. L'eau de la cuve s'évapore ensuite sous l'effet de la chaleur du système frigorifique.

Il est normal que du givre s'accumule à l'intérieur du congélateur. Un réfrigérateur trop givré risque de ne pas donner d'aussi bons résultats. Dégivrer le réfrigérateur et le congélateur aussi souvent que nécessaire :

- Sortir tous les aliments du réfrigérateur.
- Éteindre le réfrigérateur.



Le dégivrage rend beaucoup d'eau dans le réfrigérateur.

- Retirer le tuyau de vidange de la cuvette d'égouttage, à l'arrière du réfrigérateur.
- Placer le tuyau de vidange dans un récipient d'au moins un demi-gallon pour récupérer l'eau.
- Placer des serviettes sèches (etc.) à l'intérieur du réfrigérateur et du congélateur pour absorber le givre fondu.



Des températures élevées peuvent entraîner la distorsion ou la fonte des surfaces intérieures du réfrigérateur. Ne pas utiliser de récipients d'eau TRÈS CHAUDE, de sèche-cheveux ou d'autres dispositifs à haute température pour dégivrer le réfrigérateur. Ne pas employer d'objets durs ou tranchants pour enlever le givre. L'intérieur du réfrigérateur risquerait d'être endommagé.

- Pour obtenir un dégivrage plus rapide, placer des récipients d'eau CHAUDE dans le réfrigérateur et dans le congélateur.
- Enlever les serviettes humides (etc.) et sécher l'intérieur.
- Retirer le tuyau de vidange du grand récipient et le replacer dans la cuvette d'égouttage.
- Retirer le grand récipient de l'enceinte.
- Remettre le réfrigérateur en route.
- Laisser le réfrigérateur se refroidir.
- Remettre tous les aliments dans le réfrigérateur.

Nettoyage

Intérieur :

Il est recommandé de nettoyer le réfrigérateur après le dégivrage. Nettoyer l'intérieur du réfrigérateur aussi souvent que cela est nécessaire pour éviter les odeurs.

- Vider le réfrigérateur.



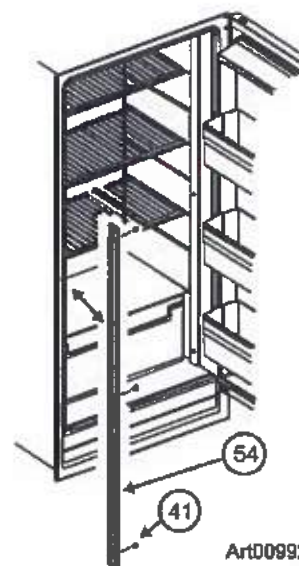
Ne pas utiliser de produits de nettoyage abrasifs, de produits chimiques ni de tampons à récurer car ils peuvent endommager l'intérieur du réfrigérateur.

- Nettoyer l'intérieur avec une solution d'eau tiède et de détergent liquide pour vaisselle.
- Rincer avec une solution d'eau claire et de bicarbonate de soude.
- Sécher avec un chiffon propre.
- Remplir le réfrigérateur.

Plateau de dégivrage :

Pour retirer le plateau de dégivrage et pour le nettoyer, procéder comme suit :

- Retirer les vis [41] du dispositif de retenue [54], sur le côté du réfrigérateur (voir Art00992).
- Enlever le dispositif de retenue.
- Tirer vers l'avant la clayette qui se trouve devant le plateau de dégivrage pour la sortir du réfrigérateur.
- S'assurer que le plateau de dégivrage ne contient plus d'eau.
- Retirer le plateau de dégivrage du tuyau de vidange.
- Tirer sur le plateau de dégivrage pour le sortir des fentes de la caisse du réfrigérateur.
- Nettoyer le plateau de dégivrage.
- Pousser le plateau de dégivrage pour le remettre en place dans les fentes de la caisse du réfrigérateur.
- Pousser le plateau de dégivrage en place dans le tuyau de vidange.
- Remettre la clayette métallique en place dans sa position d'origine.
- Installer les dispositifs de retenue avec les vis.



Portes métalliques :

Pour nettoyer les portes métalliques :

- Laver les portes avec un produit de nettoyage doux ou un mélange de détergent liquide pour vaisselle et d'eau chaude.
- Rincer à l'eau propre.
- Sécher avec un chiffon propre.



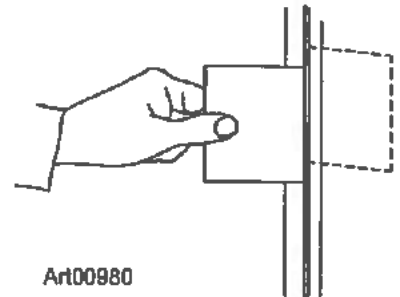
Ne pas se servir de produits de nettoyage abrasifs, de produits chimiques ou de tampons à récurer car ils risquent d'endommager les portes métalliques.

Étanchéité des portes :

Vérifier l'étanchéité des portes.

L'intérieur du réfrigérateur peut givrer lorsque l'étanchéité de l'une ou l'autre porte n'est pas satisfaisante. S'assurer que les portes ferment correctement (se reporter à Art 00980).

- Placer un morceau de papier de la taille et de l'épaisseur d'un billet de banque entre le réfrigérateur et la porte, puis fermer la porte, et ce, pour toutes les portes.
- Tirer doucement le morceau de papier.
 - Il doit se produire une légère résistance entre l'armoire du réfrigérateur et le joint de porte.
 - Répéter l'opération des quatre côtés de la porte.
 - Si le morceau de papier sort sans résistance, c'est que l'étanchéité n'est pas bonne.
 - Consulter le concessionnaire ou un Centre d'entretien autorisé Norcold pour corriger l'étanchéité de la porte.



Art00980

Liste des opérations d'entretien

Il est important de lire attentivement et de bien comprendre cette partie du manuel qui traite de l'entretien.



Norcold ne saurait être tenu pour responsable de l'installation, de la modification, de l'entretien et de l'entretien courant effectués par quiconque qui ne serait pas un concessionnaire véhicules de plaisance qualifié ou un Centre d'entretien autorisé Norcold.

Les vérifications de bon état et de sécurité suivantes doivent être effectuées par un concessionnaire véhicules de plaisance qualifié ou par un Centre d'entretien autorisé Norcold :

- Examiner l'état des conduites d'alimentation en gaz et rechercher les fuites.
 - Remplacer ou réparer suivant besoin.
- S'assurer que la pression du gaz propane est de 11 pouces de colonne d'eau.
 - Régler la pression suivant besoin.
- S'assurer que le joint de compression est complet et intact.
 - Remplacer ou réparer suivant besoin.
- S'assurer que le brûleur et l'orifice du brûleur sont propres.
 - Nettoyer suivant besoin.
- S'assurer que l'électrode est propre et que l'écartement des électrodes est de 1/8 à 3/16 po.
- Régler l'écartement suivant besoin.
- S'assurer que la tension C.A. est comprise entre 108 et 132 volts et la tension C.C. entre 10,5 et 15,4 volts.
- S'assurer que l'espace à l'arrière du réfrigérateur ne sert pas à entreposer des matériaux combustibles, de l'essence ou d'autres liquides ou vapeurs inflammables.

Période d'arrêt prolongé du réfrigérateur

Avant d'entreposer le réfrigérateur pour une période d'arrêt prolongé (hors saison d'utilisation) :

- Dégivrer et nettoyer l'intérieur du réfrigérateur.

Avant de remettre en route le réfrigérateur après une période d'arrêt prolongé :

- Vérifier que les orifices de mise à l'air libre, le conduit de fumée, le brûleur, l'orifice du brûleur, et le passage d'air de ventilation ne sont pas obstrués.

Stockage de la machine à glaçons (modèles NX64IM et NX84IM)

Pour préparer la machine à glaçons pour son entreposage saisonnier, procéder comme suit :

1. Fermer le robinet d'arrivée d'eau relié à la machine à glaçons du véhicule.
2. Pousser vers le haut le bras de la machine à glaçons jusqu'à ce qu'il se verrouille en position « ARRÊT ».
3. Débrancher l'adaptateur de tuyau d'arrosage au niveau de l'électrovanne d'eau.
4. Retirer de l'électrovanne d'eau le tuyau d'eau de la machine à glaçons.
 - Ne pas démonter de l'électrovanne d'eau la résistance de la chaufferette du tuyau d'eau.
5. Vidanger toute l'eau du tuyau d'arrivée d'eau et du tuyau d'eau de la machine à glaçons.
6. Placer l'extrémité du tuyau d'arrivée d'eau, l'extrémité du tuyau d'eau de la machine à glaçons et l'électrovanne d'eau individuellement dans un sac en plastique propre.
7. Fermer à l'aide de ruban adhésif chacun des sacs en plastique autour des tuyaux d'eau et de l'électrovanne d'eau.

Pour utiliser la machine à glaçons après son entreposage saisonnier, procéder comme suit :



Ne pas utiliser la machine à glaçons si la température ambiante est inférieure ou égale à 0 °F. L'électrovanne d'eau et le tuyau d'arrivée d'eau risqueraient d'être endommagés.

1. Retirer le ruban adhésif et les sacs en plastique de l'extrémité du tuyau d'arrivée d'eau, de l'extrémité du tuyau d'eau de la machine à glaçons et de l'électrovanne d'eau.
2. Brancher le tuyau d'eau de la machine à glaçons dans l'électrovanne d'eau.
3. Brancher l'adaptateur de tuyau d'arrosage au niveau de l'électrovanne d'eau.
4. Pousser vers le bas le bras de la machine à glaçons jusqu'en position « MARCHÉ ».
5. Ouvrir le robinet d'arrivée d'eau relié à la machine à glaçons du véhicule.



Jeter sans les utiliser les deux premiers groupes de glaçons. Il faut en effet environ trois cycles à la machine à glaçons pour fournir des glaçons entièrement formés et propres.

Entretien du réfrigérateur

Aspect de la flamme :

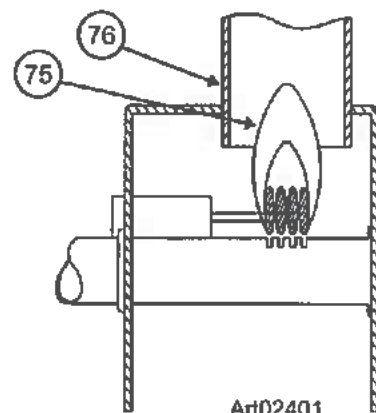
Le réfrigérateur étant en fonctionnement au gaz propane, examiner l'aspect de la flamme :

- Appuyer sur le bouton RÉGLAGE TEMPÉRATURE et le maintenir enfoncé jusqu'à ce que le chiffre de réglage de température « 9 » s'affiche sur l'écran à cristaux liquides.
- Ouvrir la prise d'air inférieure.



Le couvercle du logement du brûleur peut être chaud. Porter des gants pour éviter les brûlures.

- Enlever la vis et déposer l'égouttoir.
- Enlever la vis et déposer le couvercle du logement du brûleur.
- Examiner la flamme [75] (se reporter à Art02401).
 - La partie intérieure de la flamme doit être bleu foncé et l'extérieur doit être d'un bleu plus clair, la forme doit être constante et stable.
 - Si la flamme est jaune ou de forme erratique et instable, entrer en rapport avec le concessionnaire ou un Centre d'entretien autorisé Norcold.
 - S'assurer que la flamme ne touche pas l'intérieur du conduit de fumée [76].
 - Si la flamme touche l'intérieur du conduit de fumée, entrer en rapport avec le concessionnaire ou un Centre d'entretien autorisé Norcold.
- Fermer la porte du logement du brûleur.



Art02401

Dépose et nettoyage de l'orifice du brûleur :

Cette opération doit être effectuée par le concessionnaire ou un Centre d'entretien autorisé Norcold.

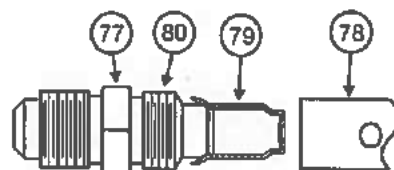
Pour déposer et nettoyer l'orifice du brûleur (se reporter à Art00956) :

- Fermer le robinet du réservoir de gaz.
- Enfoncer le bouton ON/OFF pour arrêter le réfrigérateur.



Le couvercle du logement du brûleur peut être chaud. Porter des gants pour éviter les brûlures.

- Ouvrir la prise d'air inférieure.
- Enlever la vis et déposer l'égouttoir.
- Enlever la vis et déposer le couvercle du logement du brûleur.



Art 00956



Pour éviter des fuites de gaz propane toujours possibles, toujours utiliser deux clés pour desserrer et resserrer les raccords des canalisations d'alimentation en gaz.

- Enlever l'écrou évasé de l'orifice équipé [77] (se reporter à Art00956).
- Déposer l'orifice équipé du brûleur [78].



Ne pas essayer de séparer l'orifice [79] de son support [80] lors du nettoyage. La séparation endommagera l'orifice et le joint et peut créer une fuite de gaz propane. Le gaz propane peut s'enflammer ou exploser avec pour conséquence des blessures graves, voire la mort. Ne pas nettoyer l'orifice à l'aide d'une épingle ou de tout autre objet.

- Nettoyer l'orifice équipé avec de l'air comprimé et de l'alcool uniquement.

- Remonter l'orifice équipé sur le brûleur en utilisant une clé.
- Monter l'écrou évasé sur l'orifice équipé.
- Inspecter tous les raccords et rechercher les fuites.
- Nettoyer le logement du brûleur.
- Remettre le couvercle du logement du brûleur en place.
- Remettre l'égouttoir en place.

Enlèvement du réfrigérateur

Cette opération doit être faite par le concessionnaire ou un Centre d'entretien autorisé Norcold.



ATTENTION

L'arrière du réfrigérateur comporte des bords effilés et des angles. Pour éviter les coupures et l'érosion de la peau pendant l'opération, être très attentif et porter des gants résistant aux coupures.

1. Fermer le robinet du réservoir de gaz propane.



AVERTISSEMENT

Pour éviter les fuites de gaz propane toujours possibles, toujours utiliser deux clés pour serrer et desserrer les raccords des canalisations d'alimentation en gaz du réfrigérateur.

2. Débrancher le cordon d'alimentation en courant alternatif noir et le cordon d'alimentation de la machine à glaçons blanc(modèle N843-IM uniquement) de la prise de courant.
3. Débrancher le câblage C.C. du réfrigérateur.
 - Mettre un repère sur les câbles C.C. afin de les rebrancher au bon endroit.
 - Enlever le fusible C.C. ou enlever le câblage C.C de la batterie ou du convertisseur du véhicule.
 - Déposer le câblage C.C. du réfrigérateur.
4. Débrancher la conduite d'alimentation en gaz du raccord sur la cloison du réfrigérateur.
5. Enlever les bouchons plastique des rebords de montage du réfrigérateur.
6. Enlever les vis du rebord de montage à l'arrière du réfrigérateur
7. Enlever les vis des rebords de montage supérieur et inférieur à l'avant du réfrigérateur.
8. Sortir le réfrigérateur de son logement.

Remontage du réfrigérateur

Cette opération doit être effectuée par le concessionnaire ou un Centre d'entretien autorisé Norcold.



AVERTISSEMENT

S'assurer que le joint de combustion est en parfait état, est correctement en place autour des rebords de montage du réfrigérateur et se trouve entre les rebords de montage et la paroi du logement. Un joint de combustion incomplet peut laisser les fumées toxiques s'infiltrer dans le lieu de séjour du véhicule. L'inhalation de fumées toxiques peut entraîner des étourdissements, des nausées ou, dans les cas extrêmes, la mort.

1. Pousser le réfrigérateur à fond dans le logement.
2. Installer les vis par le rebord de montage supérieur puis par le rebord de montage inférieur à l'avant du réfrigérateur.

3. Installer les vis par le rebord de montage à l'arrière du réfrigérateur.
4. Mettre les bouchons plastique en place dans les rebords de montage du réfrigérateur.



Pour éviter les fuites de propane toujours possibles, toujours utiliser deux clés pour serrer et desserrer les raccords des conduites d'alimentation en gaz.

5. Brancher la conduite d'alimentation en gaz au raccord sur la cloison du réfrigérateur.
6. Ouvrir le robinet du réservoir de propane.



Éviter le contact entre la solution utilisée pour la recherche de fuites et les composants électriques. Beaucoup de liquides sont conducteurs et peuvent causer un choc électrique, des courts-circuits, et éventuellement provoquer un incendie.

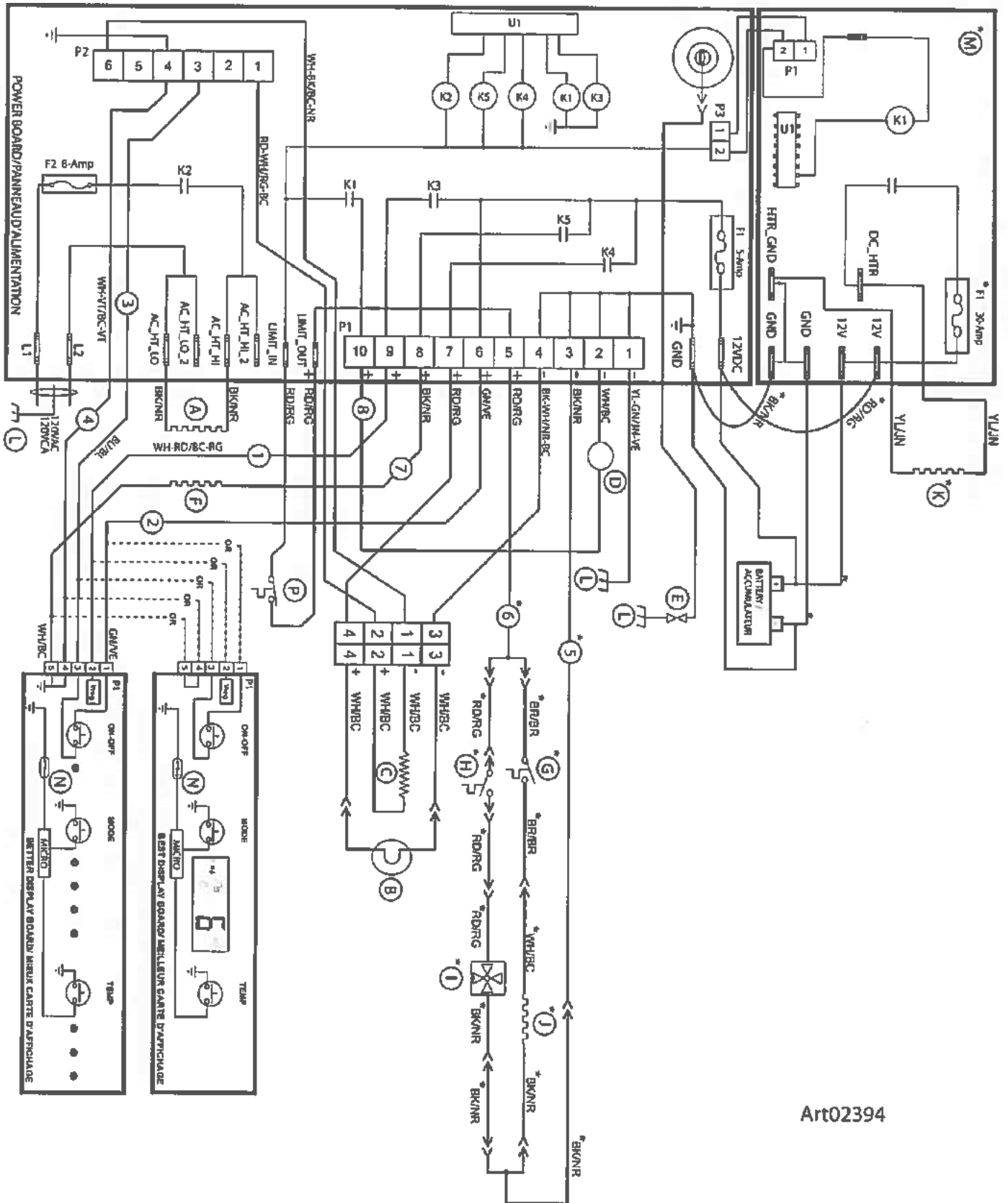
7. Utiliser une solution de recherche de fuites et inspecter la conduite d'alimentation en gaz.
8. Brancher le câblage C.C. au réfrigérateur.
 - Brancher les fils C.C. sur le réfrigérateur.
 - Installer le fusible C.C. ou raccorder le câblage C.C. à la batterie ou au convertisseur.

Schéma de câblage et schéma électrique

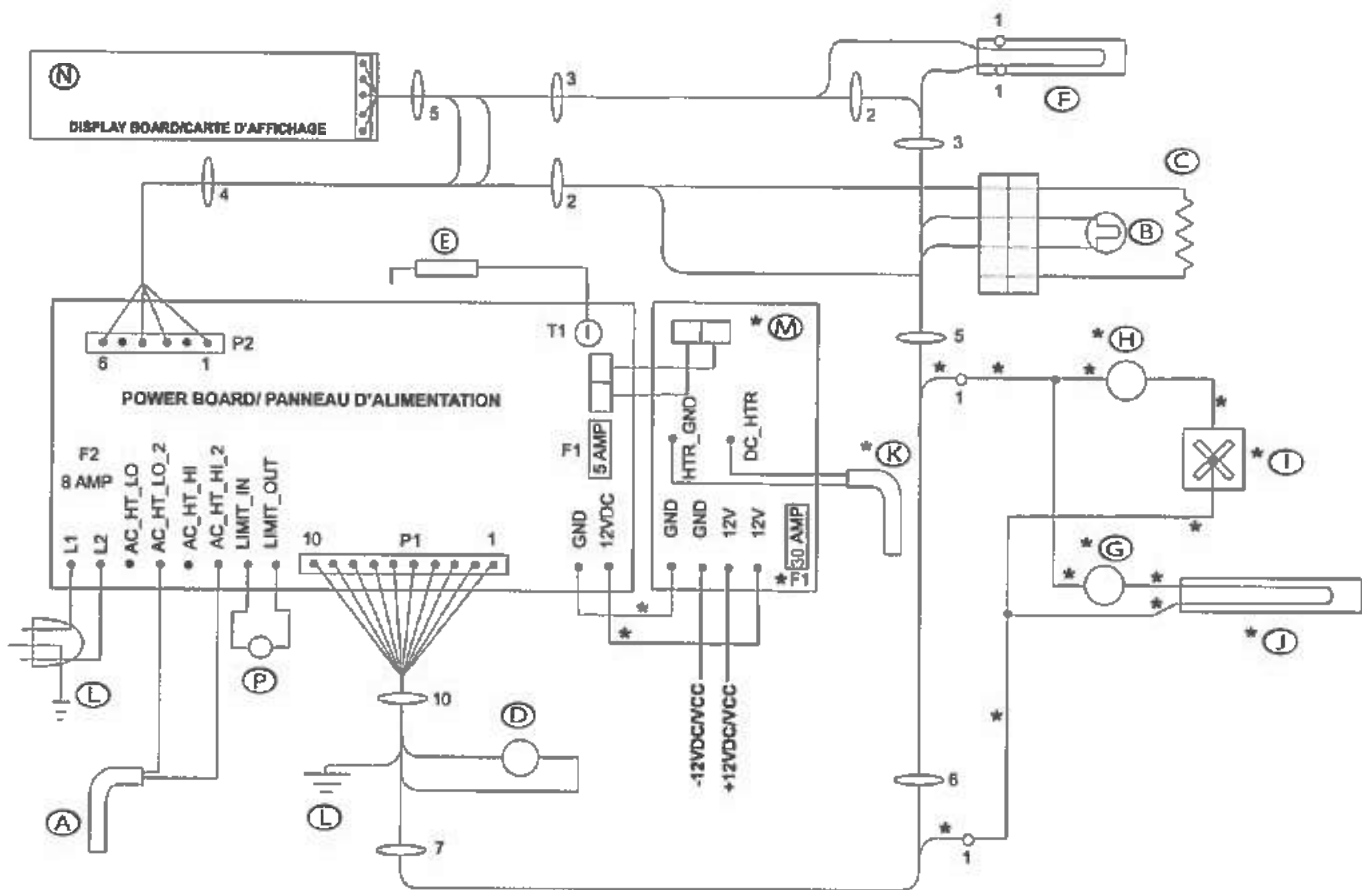
Désignation des repères du schéma de câblage (se reporter à Art02394) :

Désignation des repères du schéma électrique (se reporter à Art02395) :

Dispositif de chauffage c.a.	A
Lampe.....	B
Thermostat.....	C
Soupape de sûreté du gaz.....	D
Allumeur.....	E
Dispositif de chauffage, cloison de séparation.....	F
Interrupteur de température (option).....	G
Interrupteur de température (option).....	H
Ventilateur (option).....	I
Chaufferette du tuyau d'eau de la machine à glaçons (option).....	J
Système de chauffage c.c.	K
Masse du châssis.....	L
Panneau c.c.....	M
Contacteur de porte.....	N
Interrupteur de température.....	P
Commuté 12 V c.c.	1
Continu fondu 12 V c.c.	2
Communications.....	3
D'affichage la terre.....	4
Auxiliaire la terre.....	5
Auxiliaire + 12 V c.c.	6
Séparateur + 12 V c.c.	7
Robinet de gaz + 12 V c.c.	8
Fusible 5 A c.c.	F1
Fusible 30 A c.c. (option).....	F1
Fusible 8 A c.a.	F2



Art02394



Art02395

Schéma de câblage et schéma électrique de la machine à glaçons (modèles NX64IM et NX84IM)

Désignation des repères du schéma de câblage et du schéma électrique de la machine à glaçons (se reporter à Art02403) :

120 V c.a. chaud.....	109
Vis de mise à la terre.....	111
Chaud/lissé.....	112
Fusible thermique.....	114
Machine à glaçons.....	115
Dispositif de chauffage,moule.....	116
Thermostat.....	96
Contacteur d'arrêt.....	117
Contacteur de remplissage.....	118
Contacteur de maintien.....	119
Moteur.....	120
120 V c.a. - neutre.....	110

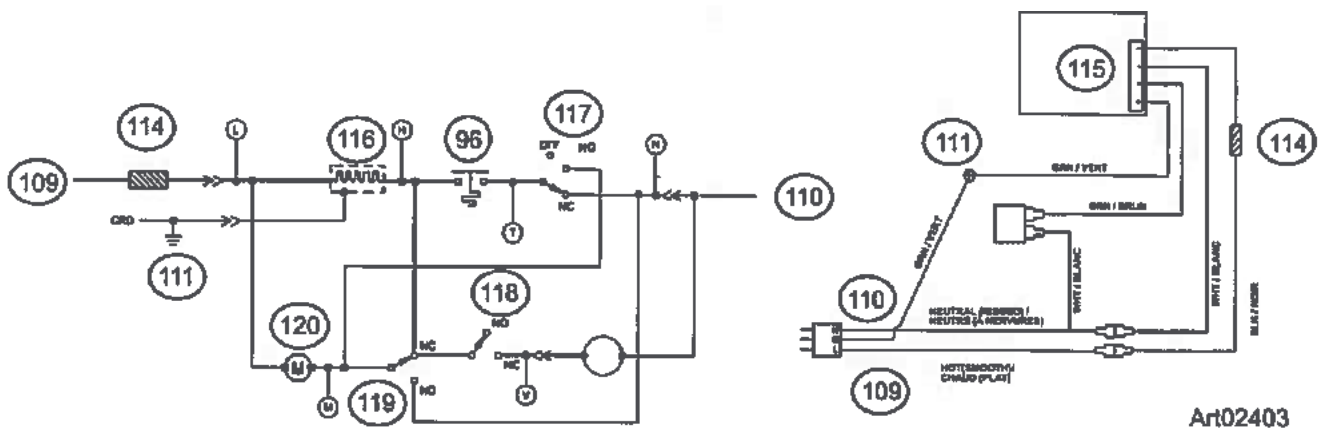
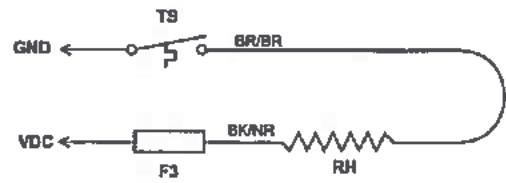
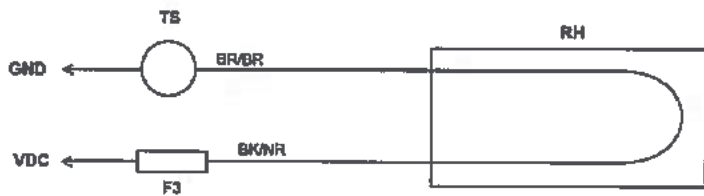


Schéma de câblage et schéma électrique - Chauffage à Basse Température Ambiante (option)



Art02312-1



Ce kit alimente le chauffage en tension c.c. chaque fois que la température ambiante est suffisamment basse. Un entreposage prolongé par temps froid décharge les batteries du véhicule. Pour éviter la décharge des batteries, débrancher le fusible 3 A du chauffage à basse température ambiante.

Pièces de rechange

Les pièces de rechange peuvent être achetées chez le concessionnaire de véhicules de plaisance local ou dans un Centre d'entretien autorisé Norcold.

Codes de défaillance

Code de défaillance	Signification	Actions correctives
"dr" avec alarme sonore.	La porte est restée ouverte pendant plus de 2 minutes.	Fermer la porte.
"no" "FL" avec alarme sonore.	Le brûleur n'est pas allumé ou rallumé.	Vérifier: - Que le robinet du (des) réservoir(s) de propane est (sont) ouvert(s). - Que la pression du gaz propane est correcte. - Que le robinet d'arrêt manuel de réfrigérateur est ouvert. - Qu'il n'y a pas d'air dans le tuyau d'arrivée de gaz propane. Voir la section « Purge d'air des tuyaux d'arrivée de gaz propane » dans le manuel d'utilisation. Entrer en rapport avec le concessionnaire ou la Centre d'entretien autorisé Norcold.
"no" "AC" avec alarme sonore.	La tension c.a. n'est pas disponible vers le réfrigérateur.	Vérifier: - Que le réfrigérateur est branché dans une prise qui fonctionne. - Que le fusible ou le disjoncteur du véhicule est intact. - Que la génératrice du véhicule est opérationnelle (si elle existe). Entrer en rapport avec le concessionnaire ou la Centre d'entretien autorisé Norcold.
"Lo" "dc"	La tension c.c. vers le réfrigérateur est faible.	Vérifier: - Que le système de charge de la batterie du véhicule est opérationnel. - Que le convertisseur C.A/C.C. est opérationnel (si existe). Entrer en rapport avec le concessionnaire ou la Centre d'entretien autorisé Norcold.
"Lo" "dc" avec alarme sonore.	La tension c.c. vers le réfrigérateur est faible.	Vérifier: - Que le système de charge de la batterie du véhicule est opérationnel. - Que le convertisseur C.A/C.C. est opérationnel (si existe). Entrer en rapport avec le concessionnaire ou la Centre d'entretien autorisé Norcold.
"Sr" avec alarme sonore.	Il s'agit d'une anomalie à l'intérieur même des commandes du réfrigérateur.	COUPER l'alimentation du réfrigérateur puis la rétablir pour le réinitialiser. Si le code d'anomalie persiste, consulter le concessionnaire ou un centre de service après-vente agréé Norcold.
Le réglage de température clignote lorsque l'on appuie sur le bouton RÉGLAGE TEMP. ou MODE.	Le réfrigérateur fonctionne sur le système de fonctionnement de secours.	Aucune action corrective par l'utilisateur/propriétaire. Entrer en rapport avec le concessionnaire ou la Centre d'entretien autorisé Norcold.
"AC" "rE" avec alarme sonore.	Il s'agit d'une anomalie à l'intérieur même des commandes du réfrigérateur.	Aucune action corrective par l'utilisateur/propriétaire. Entrer en rapport avec le concessionnaire ou la Centre d'entretien autorisé Norcold.
"dc" "rE" avec alarme sonore.	Il s'agit d'une anomalie à l'intérieur même des commandes du réfrigérateur.	Aucune action corrective par l'utilisateur/propriétaire. Entrer en rapport avec le concessionnaire ou la Centre d'entretien autorisé Norcold.
"AC" "HE" avec alarme sonore.	Il s'agit d'un problème lié à la chaufferette c.a.	Aucune action corrective par l'utilisateur/propriétaire. Entrer en rapport avec le concessionnaire ou la Centre d'entretien autorisé Norcold.
"dc" "HE" avec alarme sonore.	Il s'agit d'un problème lié à la chaufferette c.c.	Aucune action corrective par l'utilisateur/propriétaire. Entrer en rapport avec le concessionnaire ou la Centre d'entretien autorisé Norcold.
"oP" "LI" avec alarme sonore.	Un interrupteur de limite de température est ouvert.	Aucune action corrective par l'utilisateur/propriétaire. Entrer en rapport avec le concessionnaire ou la Centre d'entretien autorisé Norcold.
"FL" ". ." avec alarme sonore.	Une flamme est présente au niveau du brûleur alors qu'il ne devrait pas y en avoir.	Aucune action corrective par l'utilisateur/propriétaire. Entrer en rapport avec le concessionnaire ou la Centre d'entretien autorisé Norcold.



Microwave Oven

INSTRUCTION MANUAL

Model:EC028KD7

Read these instructions carefully before using your microwave oven.

If you follow the instructions, your oven will provide you with many years of good service.

PUT THESE INSTRUCTIONS IN A SAFE PLACE FOR REFERENCE

PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) Do not attempt to operate this oven with the door open since open-door operation can result in harmful exposure to microwave energy.
It is important not to defeat or tamper with the safety interlocks.
- (b) Do not place any object between the oven front face and the door or allows soil or cleaner residue to accumulate on sealing surfaces.
- (c) Do not operate the oven if it is damaged. It is particularly important that the oven door close properly and that there is no damage to the:
 - (1) DOOR (bent)
 - (2) HINGES AND LATCHES (broken or loosened)
 - (3) DOOR SEALS AND SEALING SURFACES
- (d) The oven should not be adjusted or repaired by anyone except properly qualified service personnel.

Specifications

Model:	EC028KD7
Rated Voltage:	120V~60Hz
Rated Input Power(Microwave):	1500W
Rated Output Power(Microwave):	1000W
Rated Input Power(Grill):	1150W
Rated Input Power(Convection):	1500W
Oven Capacity:	1.1 Cu.ft (28 Litre)
Turntable Diameter:	12.4 inch (315 mm)
External Dimensions(LxWxH):	20.47 X18.7 X14.76h (520X475X375 mm)
Net Weight:	Approx 45.41 Lbs (20.6 kg)
Warning:	Handling the cord on this unit or cords associated with accessories sold with this product, will expose you to a chemical known to the state of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

SAFETY

1. The oven must be on a leveled surface.
2. The turntable and turntable roller rest must be in the oven during cooking. Place the cookware gently on the turntable and handle it carefully to avoid possible breakage.
3. Incorrect use of browning dish may cause the turntable to break.
4. Use only the specified bag size when using Direct Access Popcorn.
5. The oven has several built-in safety switches to ensure that the power remains off when the door is open. Do not tamper with these switches.
6. Do not operate the microwave oven empty. Operating the oven with no food or food that is extremely low in moisture can cause fire, charring or sparking.
7. Do not cook bacon directly on the turntable. Excessive local heating of the turntable may cause the turntable to break.
8. Do not heat baby bottles or baby food in the microwave oven. Uneven heating may occur and could cause physical injury.
9. Do not heat narrow-necked containers, such as syrup bottles.
10. Do not attempt to deep-fry in your microwave oven.
11. Do not attempt home canning in this microwave oven, as it is impossible to be sure all contents of the jar have reached boiling temperature.
12. Do not use this microwave oven for commercial purpose. This microwave oven is made for household use only.
13. To prevent delayed eruptive boiling of hot liquids and beverages or scalding yourself, stir liquid before placing the container in the oven and again halfway through cooking time. Let stand in the oven for a short time and stir again before removing the container.
14. Use carefully when cooking food in the microwave oven to avoid burning due to excessive cooking.
15. When the appliance is operated in the combination mode, children should only use the oven under adult supervision due to the temperatures generated.
16. Failure to maintain the oven in a clean condition could lead to deterioration that could adversely affect the life of the appliance and possibly result in a hazardous situation.

IMPORTANT SAFETY INSTRUCTIONS

When using electrical appliances basic safety precautions should be followed, including the following:

WARNING - To reduce the risk of burns, electric shock, fire, injury to persons or exposure to excessive microwave energy:

1. Read all instructions before using the appliance.
2. Read and follow the specific: "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY" found on page 2.
3. This appliance must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on page 5.
4. Install or locate this appliance only in accordance with the provided installation instructions.
5. Some products such as whole eggs and sealed containers - for example, closed glass jars - are able to explode and should not be heated in this oven.
6. Use this appliance only for its intended use as described in the manual. Do not use corrosive chemicals or vapors in this appliance. This type of oven is specifically designed to heat, cook or dry food. It is not designed for industrial or laboratory use.
7. As with any appliance, close supervision is necessary when used by children.
8. Do not operate this appliance if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
9. This appliance should be serviced only by qualified service personnel. Contact nearest authorized service facility for examination, repair, or adjustment.
10. Do not cover or block any openings on the appliance.
11. Do not store this appliance outdoors. Do not use this product near water - for example, near a kitchen sink, in a wet basement, near a swimming pool, or similar location.
12. Do not immerse cord or plug in water.
13. Keep cord away from heated surface.
14. Do not let cord hang over edge of table or counter.
15. When cleaning surfaces of door and oven that comes together on closing the door, use only mild, nonabrasive soaps, or detergent applied with a sponge or soft cloth.
16. To reduce the risk of fire in the oven cavity:
 - 1). Do not overcook food. Carefully attend appliance when paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
 - 2). Remove wire twist-ties from paper or plastic bag before placing bag in oven.
 - 3). If material inside of the oven ignites, keep oven door closed, turn oven off, and disconnect the power cord, or shut off power at the fuse or circuit breaker panel.
 - 4). Do not use the cavity for storage purposes. Do not leave paper products, cooking utensils, or food in the cavity when not in use.
17. Liquids, such as water, coffee, or tea are able to be overheated beyond the boiling point without appearing to be boiling. Visible bubbling or boiling when the container is removed from the microwave oven is not always present.

THIS COULD RESULT IN VERY HOT LIQUID SUDDENLY BOILING OVER WHEN THE CONTAINER IS DISTURBED OR A UTENSIL IS INSERTED INTO THE LIQUID.

To reduce the risk of injury to persons:

- 1) Do not overheat the liquid.
- 2) Stir the liquid both before and halfway through heating it.
- 3) Do not use straight-sided containers with narrow necks.
- 4) After heating, allow the container to stand in the microwave oven for a short time before removing the container.
- 5) Use extreme care when inserting a spoon or other utensil into the container.

SAVE THESE INSTRUCTIONS

GROUNDING INSTRUCTIONS

This appliance must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This appliance is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.

WARNING - Improper use of the grounding can result in a risk of electric shock.

Consult a qualified electrician or serviceman if the grounding instructions are not completely understood, or if doubt exists as to whether the appliance is properly grounded. If it is necessary to use an extension cord, use only a 3-wire extension cord that has a 3-blade grounded plug, and 3-slot receptacle that will accept the plug on the appliance. The marked rating of the extension cord shall be equal to or greater than the electrical rating of the appliance.

DANGER - Electric Shock Hazard

Touching some of the internal components can cause serious personal injury or death. Do not disassemble this appliance.

WARNING - Electric Shock Hazard

Improper use of the grounding can result in electric shock. Do not plug into an outlet until appliance is properly installed and grounded.

1. A short power-supply cord is provided to reduce the risks resulting from becoming entangled in or tripping over a longer cord.
2. Longer cord sets or extension cords are available and may be used if care is exercised in their use.
3. If a long cord or extension cord is used:
 - 1) The marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance.
 - 2) The extension cord must be a grounding-type 3-wire cord.
 - 3) The longer cord should be arranged so that it will not drape over the counter top or tabletop where it can be pulled on by children or tripped over unintentionally.

RADIO INTERFERENCE

1. Operation of the microwave oven may cause interference to your radio, TV or similar equipment.
2. When there is interference, it may be reduced or eliminated by taking the following measures:
 - 1) Clean door and sealing surface of the oven
 - 2) Reorient the receiving antenna of radio or television.
 - 3) Relocate the microwave oven with respect to the receiver.
 - 4) Move the microwave oven away from the receiver.
 - 5) Plug the microwave oven into a different outlet so that microwave oven and receiver are on different branch circuits.

UTENSILS

CAUTION - Personal Injury Hazard

Tightly-closed utensils could explode. Closed containers should be opened and plastic pouches should be pierced before cooking.

See the instructions on "Materials you can use in microwave oven or to be avoided in microwave oven."

There may be certain non-metallic utensils that are not safe to use for microwaving. If in doubt, you can test the utensil in question following the procedure below.

Utensil Test:

1. Fill a microwave-safe container with 1 cup of cold water (250ml) along with the utensil in question.
2. Cook on maximum power for 1 minute.
3. Carefully feel the utensil. If the empty utensil is warm, do not use it for microwave cooking.
4. Do not exceed 1 minute cooking time.

Materials you can use in microwave oven

Utensils	Remarks
Aluminum foil	Shielding only. Small smooth pieces can be used to cover thin parts of meat or poultry to prevent overcooking. Arcing can occur if foil is too close to oven walls. The foil should be at least 1 inch (2.5cm) away from oven walls.
Browning dish	Follow manufacturer* instructions. The bottom of browning dish must be at least 3/16 inch (5mm) above the turntable. Incorrect usage may cause the turntable to break.
Dinnerware	Microwave-safe only. Follow manufacturer's instructions. Do not use cracked or chipped dishes.
Glass jars	Always remove lid. Use only to heat food until just warm. Most glass jars are not heat resistant and may break.
Glassware	Heat-resistant oven glassware only. Make sure there is no metallic trim. Do not use cracked or chipped dishes.
Oven cooking bags	Follow manufacturer* instructions. Do not close with metal tie. Make slits to allow steam to escape.
Paper plates and cups	Use for short term cooking/warming only. Do not leave oven unattended while cooking.
Paper towels	Use to cover food for reheating and absorbing fat. Use with supervision for a short-term cooking only.
Parchment paper	Use as a cover to prevent splattering or a wrap for steaming.
Plastic	Microwave-safe only. Follow the manufacturer* instructions. Should be labeled "Microwave Safe". Some plastic containers soften, as the food inside gets hot. "Boiling bags" and tightly closed plastic bags should be slit, pierced or vented as directed by package.
Plastic wrap	Microwave-safe only. Use to cover food during cooking to retain moisture. Do not allow plastic wrap to touch food.
Thermometers	Microwave-safe only (meat and candy thermometers).
Wax paper	Use as a cover to prevent splattering and retain moisture.

Materials to be avoided in microwave oven

Utensils	Remarks
Aluminum tray	May cause arcing. Transfer food into microwave-safe dish.
Food carton with metal handle	May cause arcing. Transfer food into microwave-safe dish.
Metal or metal-trimmed utensils	Metal shields the food from microwave energy. Metal trim may cause arcing.
Metal twist ties	May cause arcing and could cause a fire in the oven.
Paper bags	May cause a fire in the oven.
Plastic foam	Plastic foam may melt or contaminate the liquid inside when exposed to high temperature.
Wood	Wood will dry out when used in the microwave oven and may split or crack.

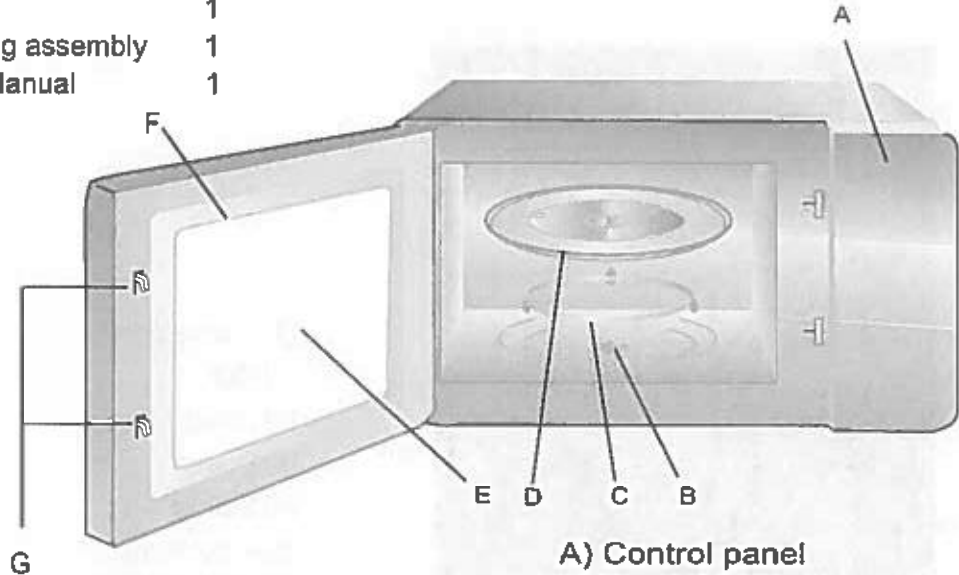
SETTING UP YOUR OVEN

Names of Oven Parts and Accessories

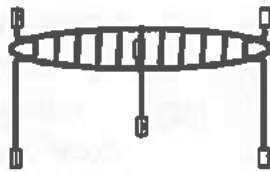
Remove the oven and all materials from the carton and oven cavity.

Your oven comes with the following accessories:

Glass tray	1
Turntable ring assembly	1
Instruction Manual	1

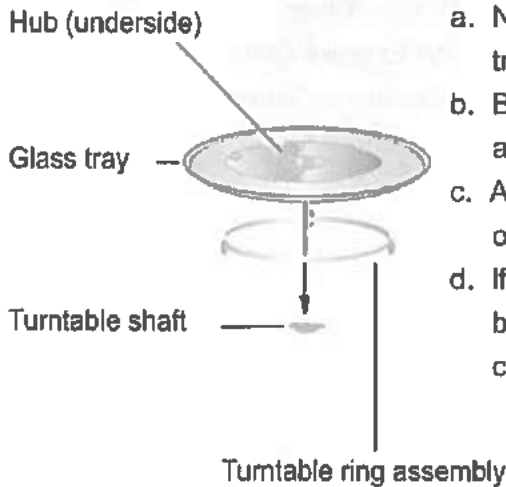


- A) Control panel
- B) Turntable shaft
- C) Turntable ring assembly
- D) Glass tray
- E) Observation window
- F) Door assembly
- G) Safety interlock system



Grill Rack (Only for Grill series)

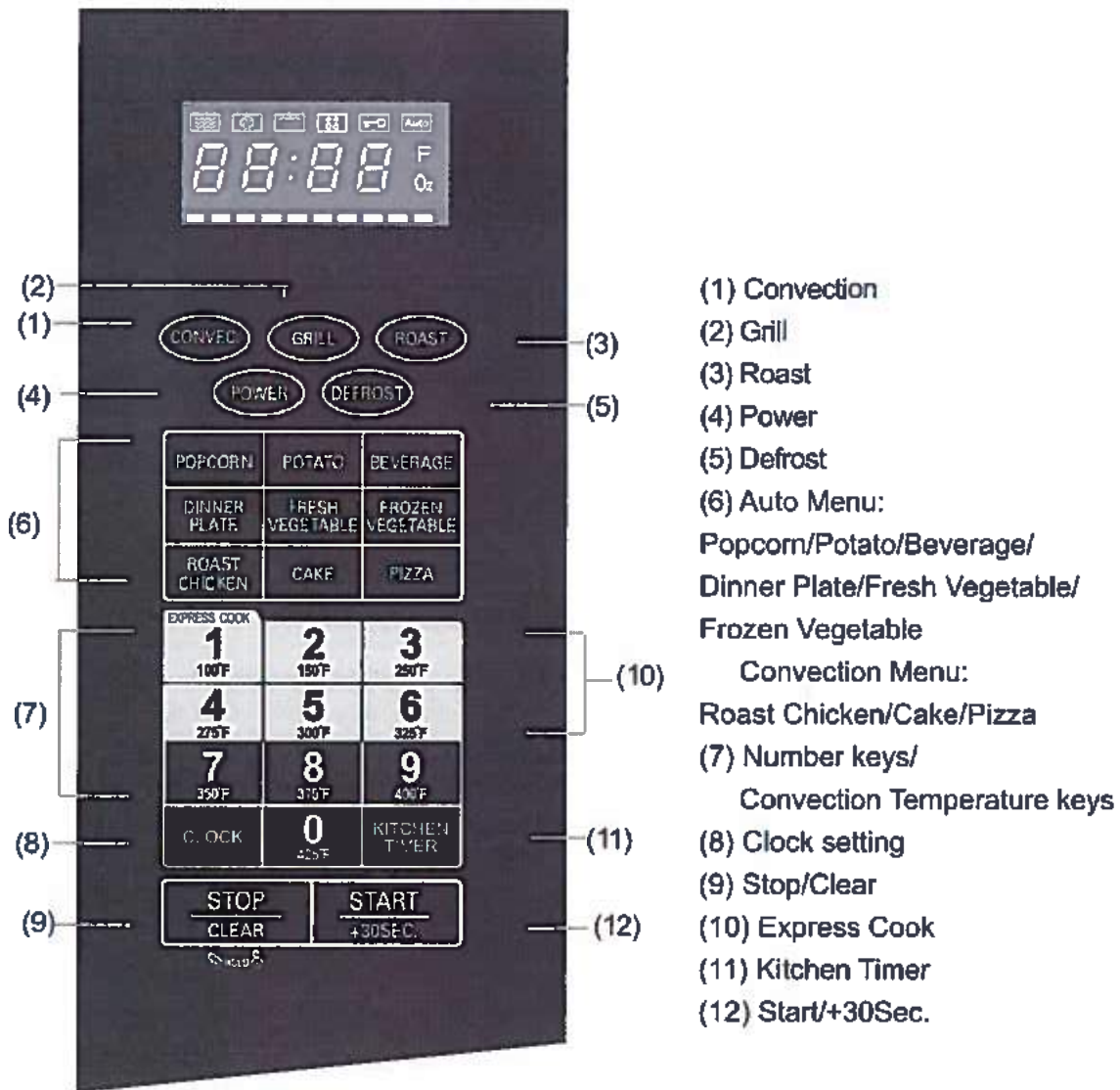
Turntable Installation



- a. Never place the glass tray upside down. The glass tray should never be restricted.
- b. Both glass tray and turntable ring assembly must always be used during cooking.
- c. All food and containers of food are always placed on the glass tray for cooking.
- d. If glass tray or turntable ring assembly cracks or breaks, contact your nearest authorized service center.

OPERATION

Control Panel and Features



OPERATION INSTRUCTION

1. Clock Setting

When the microwave oven is electrified, the oven will display "0:00", and buzzer will ring once.

The input time should be within 1:00-12:59.

Example: To set 12:12 .

- (1) Press the " **Clock**" button, and the buzzer will ring once.
- (2) Press the number keys: "1","2","1","2" in order.
- (3) Press " **Clock**" to finish clock setting. ":" will flash, and the time will light.

Note: 1) If the clock is not set, "0:00" is displayed and the clock will not count.
2) During the process of clock setting, if you press "Stop/Clear", the oven will go back to the previous status automatically.

2. Kitchen Timer

- (1) Press " **Kitchen Timer** " , "0:00" is displayed.
- (2) Press the number keys to set the timing within the range of 99 minutes and 99 seconds.

For example:

set kitchen timer as 12 minutes and 12 seconds, please press "1,2,1,2" in turn.

- (3) Press " **Start/+30SEC.**" to confirm; time will count down and display.
- (4) When time counts to "0", the buzzer will sound 5 times and the oven will turn back to the normal state.

Note: (1) Kitchen timer is a timer as an alarm clock.

- (2) In the timing state, the oven will not start with any program and the oven light will not light.

3. Microwave Cooking

Select different microwave power level and set cooking time as you wish. There are 10 power levels available for choosing. Keep on pressing "Power" to choose the power.

Level	10	9	8	7	6	5	4	3	2	1
Power	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
Display	PL10	PL9	PL8	PL7	PL6	PL5	PL4	PL3	PL2	PL1

Example: If you want to use 80% microwave power to cook for 10 minutes, you can operate the oven as the following steps.

- 1) Press "Power" once, the oven will display "PL10".
- 2) Press "Power" twice again to choose 80% power, the oven will display "PL8".
- 3) Press the number buttons of "1","0","0","0" in order, the oven will display "10:00"
- 4) Press " **Start/+30SEC.**" to start cooking, ":" will light and the "Micro." indicator will flash.

4. Grill/Micro.+Grill Combination Cooking

- (1) Press the "Grill" button once to choose the grill function, the oven will display "G-1" and " Grill " indicator will light.(Press twice or thrice to choose the combination function with "G-2" or "G-3" displaying)

(2) Set the cooking time.

Example: Set 12 minutes 50 seconds, press "1", "2", "5", "0" in order.

(3) Press " **Start/+30SEC.** " to start cooking. The cooking time counts down,

":" will light and " Grill " indicator will flash.

Note: If half the grill time passes, the oven sounds twice, and this is normal. It denotes turning food over in order to have a better effect of grilling food, and you should turn the food over, close the door, and then press" **Start/+30SEC.**" to continue cooking.

Note: "Grill" Pad presses instructions

Presses Instructions	Display	Microwave	Grill
1	G-1	—	100%
2	G-2	36%	64%
3	G-3	55%	45%

5. Convection Cooking

The convection cooking can let you cook the food as a traditional oven. Microwave is not used. It is recommended that you should preheat the oven to the appropriate temperature before placing the food in the oven.

There are ten temperatures of convection: 100F,150F,250F,275F,300F,325F,350F, 375F,400F,425F.

A. With preheating convection

1) Press the "CONVEC." once, the oven will display "100". "F" and " Conv."indicator will light. (Press the convection temperature key to select the temperature you need.)

2) Press " **Start/+30SEC.** " button to start preheating.

The temperature figure will flash when the oven reaches the temperature set, and buzzer will ring twice to remind you to put food into the oven, then close the door.

3) Press the number keys to set cooking time.

Once the temperature arrives, door must be opened and then closed to input the cooking time.

4) Press the " **Start/+30SEC.** " button to start cooking.

" Conv." indicator will flash, ":" will light, and cooking time will count down.

Note: a. Cooking time cannot be input until the preheating temperature arrives.

b. If the time is not input in 5 minutes, the oven will stop preheating. The buzzer sounds five times and turns back to waiting status.

B. Convection Cooking(Without preheating function)

1) Press the "Convec" once, the oven will display "100". "F" and " Conv."indicator will light. (Press the convection temperature key to select the temperature you need.)

2) Press the "Convec" button to confirm the temperature.

3) Press the number keys to set cooking time.

4) Press the " **Start/+30SEC.** " button to start cooking.

" Conv." indicator will flash, ":" will light, and cooking time will count down.

6. Convection Roast Cooking

- 1) Press "**Roast**" once, the oven will display "325F", and the "Micro.", "Conv." indicator will light.(Press the convection temperature key to select the temperature you need.)
- 2) Press "**Roast**" button to confirm the temperature.
- 3) Press the number keys to set cooking time.
- 4) Press "**Start/+30SEC.**" button to start cooking, ":" will light, and cooking time will count down.

7. Defrost By Weight

- 1) Press "**Defrost**" once, the oven will display "dEF1"."Micr." , "Defrost" indicators will light.
- 2) Press the number keys to set defrosting weight within the range of 4 to 100 oz, and "Oz" will light.
- 3) Press "**Start/+30SEC.**" button to start defrosting, and "Oz" will disappear.

8. Defrost By Time

- 1) Press "**Defrost**" twice, the oven will display "dEF2"."Micr." , "Defrost" indicators will light.
- 2) Press the number keys to set defrosting time. The max.time is 99 minutes 99 seconds.
- 3) Press "**Start/+30SEC.**" button to start defrosting.

9.Multi-Stage Cooking

A maximum of two stages of cooking can be set. If one of the stages is defrosting, then it should be put in the first stage. The buzzer will ring once after each stage cooking and the next stage will begin.

Note: Auto menu cooking cannot be set as one of the multi-stage.

Example: cooking with 100% microwave power for 5 minutes and then 70% microwave power for 10 minutes. The steps are as the following:

- 1) Press "**Power**" once, "PL10" is displayed;
- 2) Press number keys "5","0","0" to adjust the cooking time as you need;
- 3) Press "**Power**" four times to choose 70% microwave power, "PL7" is displayed;
- 4) Press number keys "1","0","0","0" to adjust the cooking time as you need.
- 5) Press "**Start/ +30 SEC.**" to start cooking.

10. Speedy Cooking

- (1) In waiting state, instant cooking at 100% power level can be started by selecting cooking time from 1 to 6 minutes by pressing numeral pads 1 to 6. Press "**Start/ +30 SEC.**" to increase the cooking time 30 seconds by each added pressing; the maximum cooking time is 99 minutes and 99 seconds.
- (2) In waiting state, instant cooking at 100% power level with 30 seconds' cooking time can be started by pressing "**Start/ +30 SEC.**". Each press on the same button will increase cooking time by 30 seconds. the maximum cooking time is 99 minutes and 99 seconds.

Note: In microwave, grill, convection or combination cooking state, 30 seconds' cooking time can be added by each pressing of "Start/ +30 SEC." button, and it's invalid at the function of defrost, multi-stage or auto menu cooking.

11. Auto Menu Cooking

1) In waiting state, press the button of "Popcorn", "Potato", "Beverage", "Dinner Plate", "Fresh Vegetable", "Frozen Vegetable", "Roast Chicken", "Cake" or "Pizza" to choose the function and weight of food as you need.

2) Press "Start / +30 SEC." to start cooking.

Note: Refers to the next page for auto menu chart.

12. Lock-out Function for Children

Lock: In waiting state, press "STOP/CLEAR" for 3 seconds, there will be a long "beep" denoting entering into the children-lock state and "⏸" indicator will light. LED will display current time or 0:00.

Unlock: In locked state, press "STOP/CLEAR" for 3 seconds, there will be a long "beep" denoting that the lock is released, and "⏸" indicator will disappear.

13. Food Detection Algorithm

In standby mode, open the door, and then close the door. If the cooking program is set within 5 minutes, the oven will start cooking normally; if more than 5 minutes, the oven cannot start cooking, the buzzer will sound once, and the screen will display "FOOD" repeatedly. Switching the door and then setting the cooking program within 5 minutes, the oven can start cooking.

14. State Inquiry

1). During cooking, press "Convec", "Power", "Grill" to check the responding power, and the power will be displayed for 2-3 seconds;

2) During cooking, press "Clock" to check the current time, and the time will be displayed for 2-3 seconds.

Auto menu Chart

Menu	Weight (Oz)	Display
Popcorn	1.75 OZ	1.75 OZ
	3.00 OZ	3.00 OZ
	3.50 OZ	3.50 OZ
Potato	1 portion	1
	2 portions	2
	3 portions	3
Beverage	about 8.80 OZ	1
	about 17.60 OZ	2
	about 26.40 OZ	3
Dinner Plate	8.00 OZ	8.00 OZ
	12.00 OZ	12.00 OZ
	16.00 OZ	16.00 OZ
Fresh Vegetable	4.00 OZ	4.00 OZ
	8.00 OZ	8.00 OZ
	16.00 OZ	16.00 OZ
Frozen Vegetable	4.00 OZ	4.00 OZ
	8.00 OZ	8.00 OZ
	16.00 OZ	16.00 OZ
Roast Chicken	16.00 OZ	16.00 OZ
	24.00 OZ	24.00 OZ
	32.00 OZ	32.00 OZ
	40.00 OZ	40.00 OZ
	48.00 OZ	48.00 OZ
Cake	16.00 OZ	16.00 OZ
Pizza	10.00 OZ	10.00 OZ
	22.00 OZ	22.00 OZ

Note: 1) Cake menu is under convection cooking with 325F-preheat function, and you should preheat first following the auto menu operation, when the oven reaches the temperature, it will stop working and sound to remind opening the door to put cake in, then press "Start / +30 SEC." to start cooking.

2) You should use the grill rack when roasting chicken in order to have a better effect of cooking.

MAINTENANCE

Troubleshooting

Check your problem by using the chart below and try the solutions for each problem. If the microwave oven still does not work properly, contact the nearest authorized service center.

TROUBLE	POSSIBLE CAUSE	POSSIBLE REMEDY
Oven will not start	<ul style="list-style-type: none"> a. Electrical cord for oven is not plugged in. b. Door is open. c. Wrong operation is set. 	<ul style="list-style-type: none"> a. Plug into the outlet. b. Close the door and try again. c. Check instructions.
Arcing or sparking	<ul style="list-style-type: none"> a. Materials to be avoided in microwave oven were used. b. The oven is operated when empty. c. Spilled food remains in the cavity. 	<ul style="list-style-type: none"> a. Use microwave-safe cookware only. b. Do not operate with oven empty. c. Clean cavity with wet towel.
Unevenly cooked foods	<ul style="list-style-type: none"> a. Materials to be avoided in microwave oven were used. b. Food is not defrosted completely. c. Cooking time, power level is not suitable. d. Food is not turned or stirred. 	<ul style="list-style-type: none"> a. Use microwave-safe cookware only. b. Completely defrost food. c. Use correct cooking time, power level. d. Turn or stir food.
Overcooked foods	Cooking time, power level is not suitable.	Use correct cooking time, power level.
Undercooked foods	<ul style="list-style-type: none"> a. Materials to be avoided in microwave oven were used. b. Food is not defrosted completely. c. Oven ventilation ports are restricted. d. Cooking time, power level is not suitable. 	<ul style="list-style-type: none"> a. Use microwave-safe cookware only. b. Completely defrost food. c. Check to see that oven ventilation ports are not restricted. d. Use correct cooking time, power level.
Improper defrosting	<ul style="list-style-type: none"> a. Materials to be avoided in microwave oven were used. b. Cooking time, power level is not suitable. c. Food is not turned or stirred. 	<ul style="list-style-type: none"> a. Use microwave-safe cookware only. b. Use correct cooking time, power level. c. Turn or stir food.



RECORD THIS UNIT INFORMATION FOR FUTURE REFERENCE:	
Model Number	_____
Serial Number	_____
Date Purchased	_____

Dometic Propane Built-In Cooktops and Sinks

USA
SERVICE OFFICE
 Dometic Corporation
 2320 Industrial Parkway
 Elkhart, IN 46516
 574-294-2511
CANADA
 Dometic Corporation
 46 Zatonski, Unit 3
 Branford, ON N3T 5L8
 CANADA
 519-720-9578

For Service Center Assistance Call:
 800-544-4881



⚠ WARNING

This manual must be read and understood before installation, adjustment, service, or maintenance is performed. This unit must be installed by a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.

⚠ AVERTISSEMENT

Lire et comprendre ce manuel avant de procéder à l'installation, à des réglages, de l'entretien ou des réparations. L'installation de cet appareil doit être effectuée par un réparateur qualifié. Toute modification de cet appareil peut être extrêmement dangereuse et entraîner des blessures ou dommages matériels.

INSTALLATION & OPERATING INSTRUCTIONS

- 2BR-1066048
- 2BR-1066050
- 2BR-1066053
- 2BR-1066057
- 3BR-1040132
- 3COMBI-8901
- SK-1078019
- SK-1078019-01

Form No. 3311832.038
 (Replaces 3311832.020)
 (French 3311833.028)
 ©Dometic, LLC
 LaGrange, IN 46761
 Date Issued: 2012-01

USA



Installation and Operating Instructions for Dometic Propane Built-in-Cooktops and Sinks

Maximum gas supply pressure: 11 inch (27,94 mm) wc.

Gas supply pressure for checking of the regulator setting: 12 inch (30,48 mm) wc.

The installation must conform with state or other codes or, in the absence of such codes, with the Standard for Recreational Vehicles, ANSI/NFPA 1192 and for Recreational Vehicle Cooking Gas Appliances ANSI Z21.57-2010.

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance
- **WHAT TO DO IF YOU SMELL GAS**
 - Do not try to light any appliance and do not use any naked flame.
 - Under no circumstances attempt to find the leak with the aid of a naked flame.
 - Do not touch any electrical switch.
 - Do not use any phone in your recreational vehicle.
 - Clear the recreational vehicle of all occupants.
 - Turn off the gas supply tank valve(s) and/or main gas supply.
 - Immediately call your gas supplier for instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Have the gas system checked and leakage source corrected by a qualified installer, service agency, manufacturer or dealer or the gas supplier (an expert gas specialist).
- Any alteration to the appliance can be dangerous and is not permitted.
- Some parts of the appliance can become very hot: keep children away.

WARNING:

The installation of this appliance must only be carried out by an authorized specialist. Authorized gas specialists are those experts, whose training, knowledge and practical experience guarantee that they will carry out the inspection and work correctly.

Attention: the installer is responsible to leave this manual with the appliance!

Attention: the consumer has to retain the manual for future reference!

Please read these operating instructions carefully before using the appliance .

1. Validity

These instructions apply to the  **Dometic** Built-In-Cooktops EK2000.

2. Installation and connection of the appliance

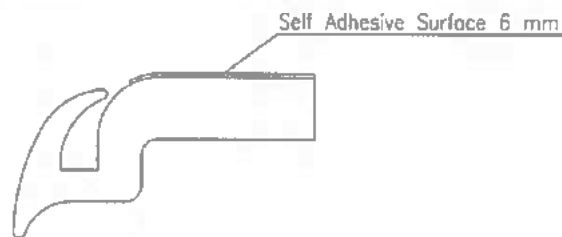
2.1 Instructions for Drop In and Sealing into Kitchen Worktop of Dometic Sinks, Sink and Drainer Combinations, Cooker-Sink Combinations and Cooktops.

All the above mentioned appliances are to be dropped into the kitchen worktop.

Saw or mill into the worktop the contour necessary for the installation of the drop-in-appliance according to the cut-out drawing provided for every appliance.

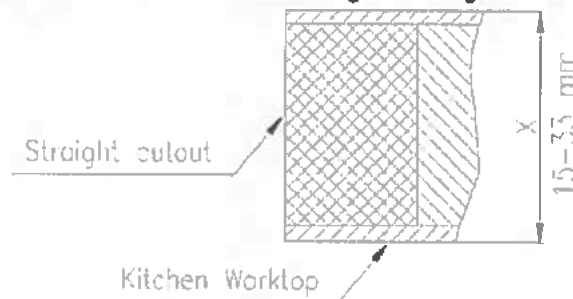
The cut-out into the worktop is different according to the two different installation rubber profiles available:

2.1.1 Installation profile „on top of table“ to picture No.1 as shown below:



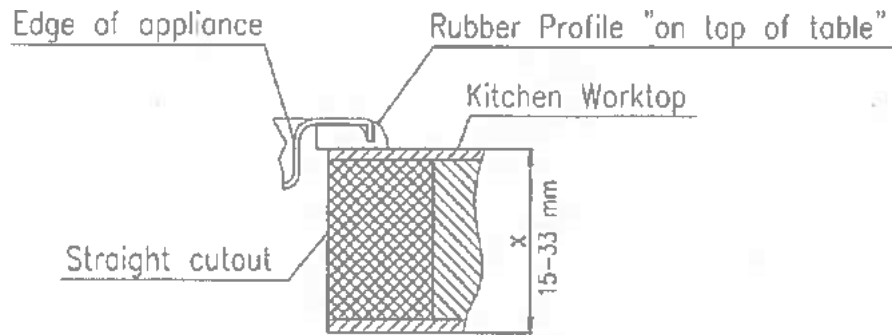
Picture No. 1

2.1.1.1 The cutout for this profile has to be sawed or milled straight following the below Picture No. 2:



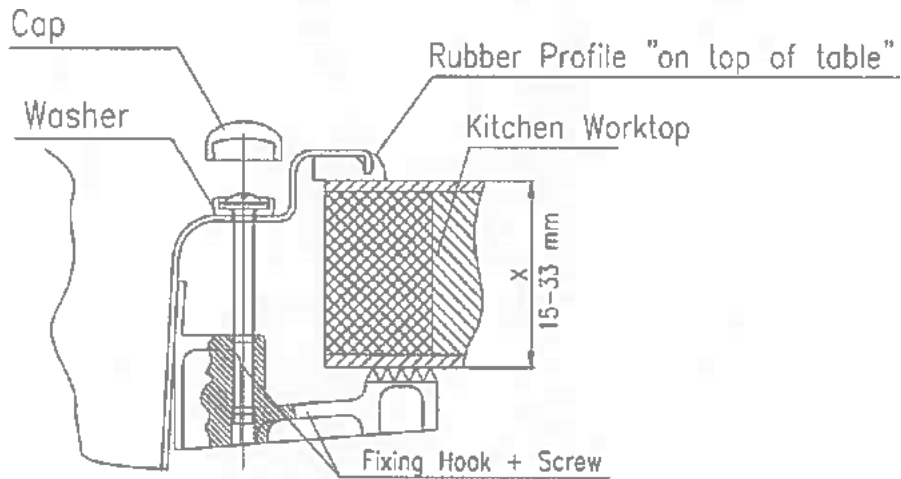
Picture No. 2

2.1.1.2 The profile is self adhesive. Please take off the plastic strip on the adhesive surface and glue the profile under the edge of the appliance as per picture No. 3 shown below. Make sure that the edge of the appliance is well placed between the two lips of the profile.

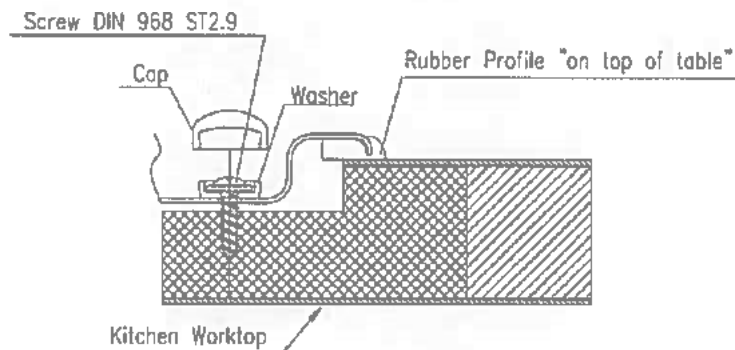


Picture No. 3

2.1.1.3 Drop the appliance with glued profile onto cutout of worktop and fix the appliance by the hook- or screw-system following the pictures No. 4 (for the hook fixing) and No. 5 (for the screw fixing):



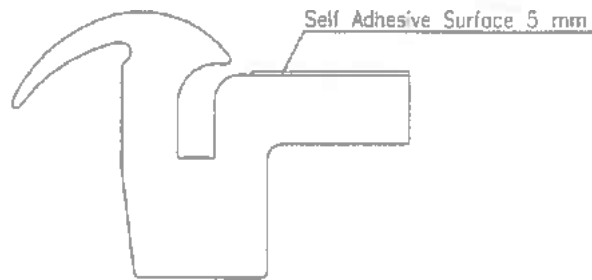
Picture No. 4



Picture No. 5

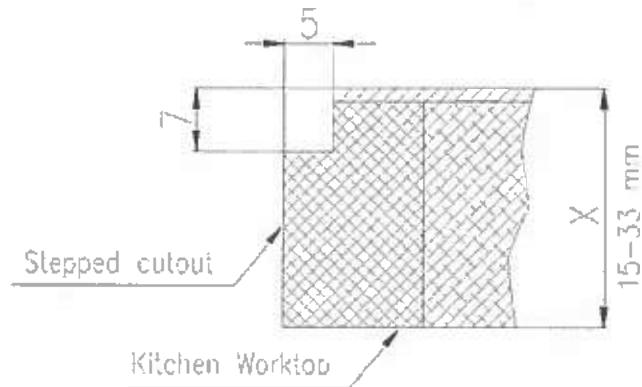
2.1.1.4 The appliance installed with the profile „on top of table“ will have its edge 4 mms above the surface of worktop.

2.1.2 Installation profile „flush“ to Picture No. 6 as shown below:



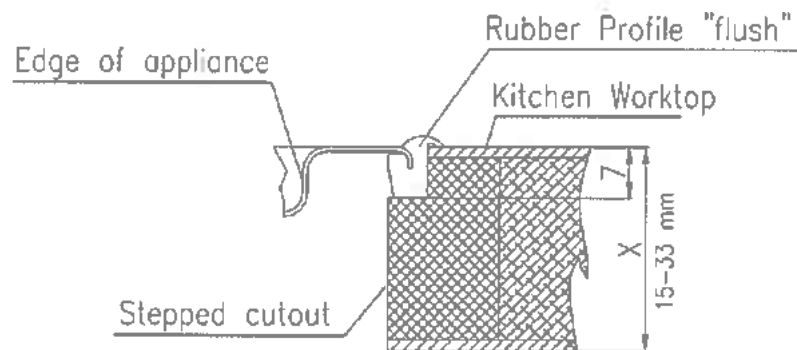
Picture No. 6

2.1.2.1 The cutout for this profile has to be milled stepped following the below picture No. 7:



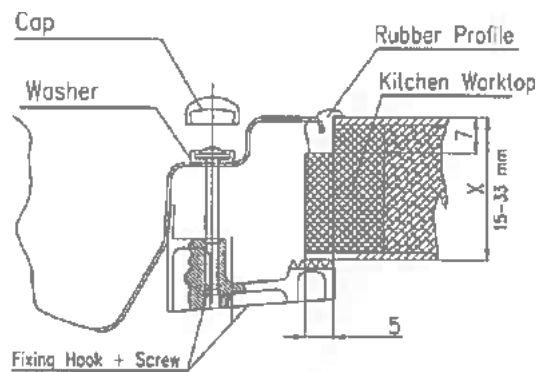
Picture No. 7

2.1.2.2 The profile is self adhesive. Please take off the plastic strip on the adhesive surface and glue the profile under the edge of the appliance as per picture No. 8 shown below. Make sure that the edge of the appliance is well placed between the two lips of the profile.

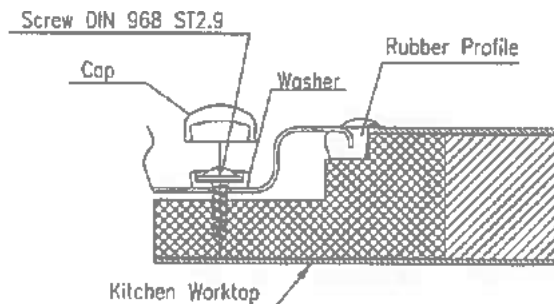


Picture No. 8

2.1.2.3 Drop the appliance with glued profile into cutout of worktop and fix the appliance by the hook- or screw-system following the pictures No. 9 (for the hook fixing) and No. 10 (for the screw fixing):



Picture No. 9



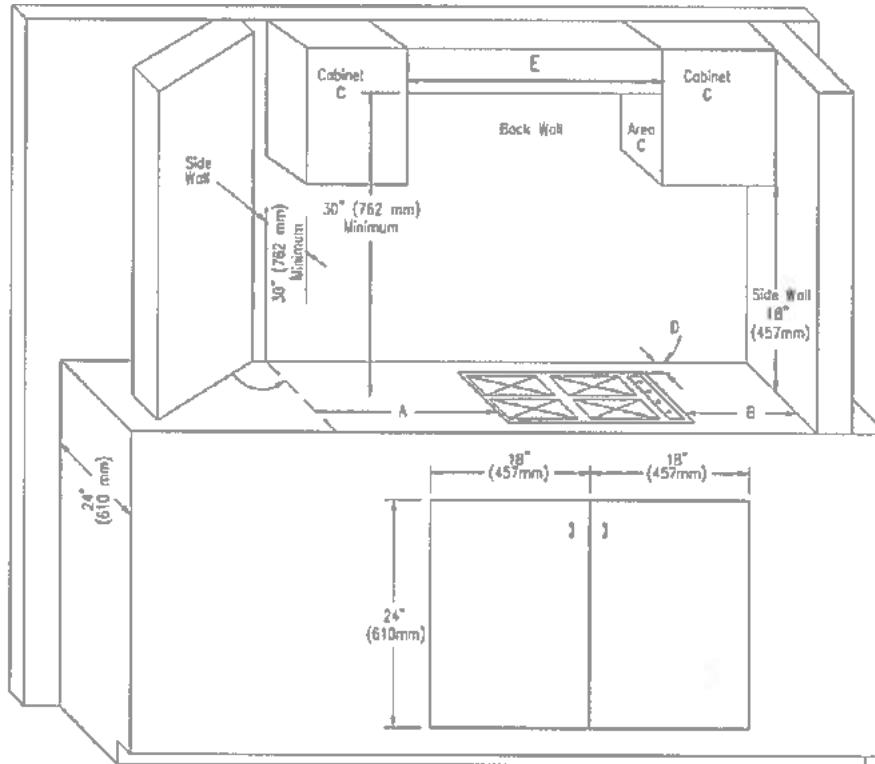
Picture No. 10

- 2.1.2.4 The appliance installed with the profile „flush“ will have its edge flush with the worktop.
- 2.1.3 The minimum distance between the front edge of the countertop and the cutout opening for the appliance must be so, that the appliance with its sealing profile safely rests on the countertop 1" (25.4 mm).
- 2.1.4 The minimum distance between two separate appliances installed into the same Countertop is so, that the edges of the appliances after installation should not be closer to each other than ½ in (12 mm).

2.2 Installation of the Appliance and Distances.

When installing and connecting the appliance, the regulations, relevant to the latest national technical developments, must be complied, for the cooking appliances the American National Standard For Recreational Vehicle Cooking Gas Appliances ANSI Z21.57-2010. The appliance must be safely and securely installed in the appropriate position in the cutout of the kitchen worktop, using the accompanying fitting and sealing materials. Gas pipes and gas connections must not be used as fixing material.

When fitting the appliance, the following minimum distances must be maintained, as illustrated in the picture No.11.



Picture No.11

Dimensions A, B and D (see picture No.11):

- The minimum distance from the edge of the appliance to the combustable left side is 2", right side is 0" and rear is 0".
- The minimum distance E is the nominal width of the stove.
- The minimum clearance above the top is 30" (762mm). This clearance above the top maybe 19½" only when a vent hood is installed in accordance with ANSI/NFPA 1192 and CSA Z240.

Dimension under the appliance:

- For appliances without a grill fitting a minimum distance from the bottom/lowest part of the appliance of 10 mm must be respected.

The maximum depth of cabinets installed above cooking appliances is 13 in (330 mm).

2.3 Ventilation of the Cooktop.

Ventilation openings with a cross-section of at least 7.5 cm² are necessary below the cooking appliance, to allow the escape of heat. The minimum recommended height of the ventilation openings is 5 mm. The openings must

therefore be at least 6 in (150 mm) x 0.2 in (5 mm).

The ventilation openings may be located on the side, at the front or the back of the kitchen cabinet.

2.4 Pressure Regulator

The cooking appliance is supplied with a nonadjustable pressure regulator for 11 inch gas pressure, fixed to the gas inlet pipe, which reduces the bottle pressure on the working pressure of the appliance.

3. Initial Operation of the Appliance

3.1. Open the gas-bottle valve.

3.2. Open the cooktop shut-off valve.

3.3. The Dometic burners are equipped with a thermo-electric flame failure device. This special safety device makes sure that in any case of any extinguishing of the flame, be it intended or not intended, the gas flow is shut off automatically. The existence of this safety device makes the procedure of lighting the burner a bit more complicated than the lighting of a burner without this device. Therefore carefully follow the following instructions.

3.4. Turn the control knob of the relevant burner from the off-position (0-mark) anticlockwise to maximum (Big flame). (see picture No.1)

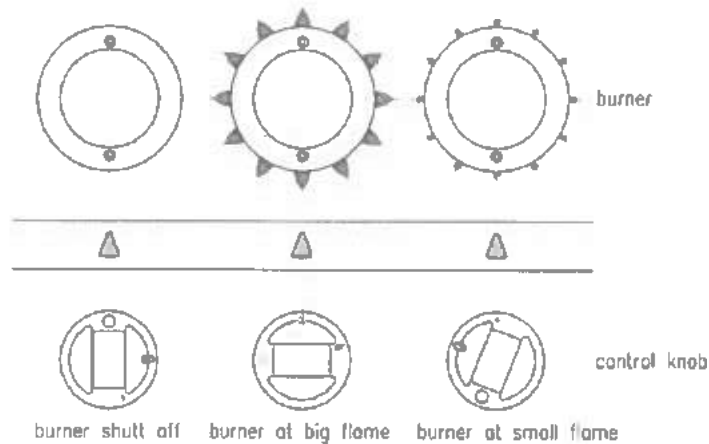
3.5. Push the knob in and hold it in this position.

3.6. Ignite the burner on high flame position with a match or other suitable ignition device.

3.7. If the burner ignites hold the knob pushed in for approximately 10 seconds.

3.8. The knob may now be released and set to the required burner position. (see picture No.1)

3.9. The entire ignition process should be clearly visible from above and not obstructed by cooking utensils.



Picture No.1

4. Switching off the Appliance.

- 4.1. Turn the control knob to the off-position, (0-mark) to extinguish the burner (see picture No.1).
- 4.2. Close the cooktop shut-off valve.
- 4.3. Close the bottle valve during longer periods of non-operation.

5. Action in Case of Faults

If a fault occurs the appliance must be switched off (see above) and a specialist consulted. (see warning first page)

6. Correct Use of the Cooktop

6.1. Cooking Utensils

6.1.1. Care should be taken that utensils are placed in the middle of the ring.

WARNING The flame size should be adjusted so it does never extend beyond the edge of the cooking utensil. This instruction is based on safety considerations.

6.1.2. Utensils with misshapen/distorted bases must not be used .

6.1.3. The different burners on the cooking appliances may be equipped with pan supports of different diameter. The cooking utensils shall not have bigger diameters than the pan supports.

6.2. Air Supply

6.2.1. Ventilation openings with a cross section of at least 150 cm² are essential in the room where the cooktop operated during operation of the burner(s).

These openings may be closable but must be open during operation of the burner(s).

WARNING: During use of gas cooking appliances the closable ventilation openings in the vehicle must remain open.

6.2.2. The combustion air supply should be checked from time to time and cleaned if necessary.

6.2.3. **WARNING:** The glass lids on the Dometic cooking appliances are no cooking surfaces. The top cover must be open when a burner is in operation. See the relative warning label on the glass lid:

Warning: This is not a cooking surface. Glass lid must be fully raised when any burners are alight.

WARNING:

- The burners must not be used for space heating to heat or warm the room. Doing so may result in carbon monoxide poisoning and overheating of the oven.
- The burners must not be operated during refuelling or in garages.
- Keep appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- Do not obstruct the flow of combustion and ventilation air.
- Visually check the burner flames, which shall burn clean and all around the burner.
- Should control knobs no more be turnable easily, do not use this burner any more and call the specialist.

7. Instructions for Long Periods of Non-Operation

- 7.1. Turn the knobs to the off-position (0-mark)
- 7.2. Close the cooktop shut-off valve.
- 7.3. Close the bottle valve.
- 7.4. After a long period of non-operation the appliance should be examined by a specialist.

8. Care and Cleaning of the Appliance

- 8.1. A standard cleansing agent can be used to clean the appliance. To avoid damage, the outer surface of the appliance should be cleaned using only a damp cloth without the addition of chemical or granular cleansing agents.
- 8.2. The burner head(s) must not be dismantled when cleaning the appliance.
- 8.3. Care must be taken that cleanser does not spill into the burner(s).
- 8.4. After longer journeys the appliance should be examined for any obvious damage or loose parts.

9. Maintenance

- 9.1. For safety reasons it is essential that the appliance be examined annually by a specialist for fault-free operation and any faults eliminated. Authorized gas specialists are those experts, whose training, knowledge and practical experience guarantee that they will carry out the inspection and work correctly.
- 9.2. The following functions, in particular, should be checked during the annual service:
 - Gas leak test.
 - Inspection of burner safety and flame stability.
 - Inspection of fresh air supply.
 - Inspection of the safety and control fittings (burner taps).
- 9.3. If the flame openings of the burnerheads become dirty or blocked, they must be cleaned.
- 9.4. The thermo-couple must not be dirty and the correct distance between the burner head and the thermo-element must be maintained (ca 2-4 mm).
- 9.5. The propane supply system of appliances used in recreational vehicles should be tested by a specialist before initial operation and every two years thereafter, for tightness and function. A test conformance certificate should be issued by the specialist. It is the user's responsibility to arrange these tests.
- 9.7. The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psi (3.5 kPa).
- 9.8. The appliance must be isolated from gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psi (3.5 kPa).
- 9.9. Leak testing of the appliance shall be conducted according to the manufacturer's instructions.

10. For replacement parts contact:

DOMETIC CORPORATION
Sales and Marketing
2320 Industrial Parkway
Elkhart, IN 46516
Telephone: 574-294-2511
Telefax: 574-293-9686

11. Manufacturer:

DOMETIC CRAMER SR s.r.o.
Tehelná 8 • SK - 888 01 Fíľakovo, Slovak Republic
Telephone: 00421-47-4319236
Telefax: 00421-47-4319144



LIMITED TWO-YEAR WARRANTY DOMETIC STOVES/SINKS/FAUCETS

**THE SELLER NAMED BELOW MAKES THE FOLLOWING WARRANTY WITH
RESPECT TO THE DOMETIC PRODUCT:**

1. This warranty is made only to the first purchaser (herein after referred to as the "Original Purchaser") who acquires the product for his own use and is installed and operated within the continental United States and Canada.
2. This warranty will be in effect for two years on parts, labor and freight from the date of purchase by the Original Purchaser. It is suggested that the original purchaser retain a copy of the dated bill of sale as evidence of the date of purchase.
3. This warranty covers only specified parts, which shall be free from defects in material and workmanship under normal use. This warranty does not cover conditions unrelated to the material and workmanship of the product. Such unrelated conditions include, but are not limited to: (a) damage not reported within the first 7 days of ownership; (b) faulty installation or installation that does not comply with RVIA standards, and any damage resulting from such; (c) the need for normal maintenance and any damage resulting from the failure to provide such maintenance; (d) failure to follow Sellers instructions for use of product; (e) any accident to or misuse of any part of this product and any alteration by anyone other than the Seller or its authorized representative; (f) any non-Dometic parts that are installed as replacement parts will void any warranty (implied or written); (g) blow out conditions; (h) cosmetic issues caused during installation; (i) animal or insect infiltration which damages unit or inhibits performance.

4. The specified parts covered by this warranty are as follows: Major components (motor and switches) are covered for parts, labor and freight for two years from date of purchase. All other components that fail must be reported within the first 90 days of ownership in order to receive coverage of parts, freight and labor under warranty. The specified parts not covered by this warranty are as follows: (lights, filters, and cosmetic defects caused during installation or from abuse or misuse).
5. In order to obtain the benefits of this warranty, the original purchaser must return the product which is found defective to the Seller named below or to a Dometic Authorized Service Center during the period that this warranty is in effect. The original purchaser is responsible for all charges incurred in delivery of the product to the Seller or Dometic Authorized Service Center, and in pick up after the warranty service has been completed. To obtain the location of the nearest Authorized Service Center, please call 1-800-544-4881 or in Canada call 1-519-653-4390.
6. Any item returned in the manner described in paragraph 5 will be examined by the Seller or the Authorized Dometic Service Center. If it is found that the returned item was defective in material and workmanship, the Seller or the Authorized Dometic Service Center will repair the product per the terms outlined in paragraph 4. **CONFIRM THE SERVICE AGENCY IS AN AUTHORIZED DOMETIC SERVICE CENTER. DO NOT PAY THE SERVICE AGENCY FOR WARRANTY REPAIRS. SUCH PAYMENTS WILL NOT BE REIMBURSED.**
7. The Seller does not authorize any person or company to create any warranty obligations or liability on their behalf. This warranty is not extended by the length of time which you are deprived of the use of the product. Repairs and replacement parts provided under the terms of this warranty shall carry only the non-expired portion of this warranty.
8. In no event shall either seller be liable for incidental or consequential damages. This includes any damage to another product or products resulting from such a defect. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply.
9. Any implied warranty, including the implied warranty of merchantability and fitness for any purpose, is limited to the duration of this limited warranty. Some states do not allow limitations on how long an implied warranty can last, so the above limitation may not apply.
10. **THIS WARRANTY GIVE SPECIFIC LEGAL RIGHTS, YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.** No action to enforce this warranty shall be commenced later than ninety (90) days after the expiration of the warranty period. Claims must be submitted in writing to the Dometic Warranty Department for arbitration.
11. All products (except those specifically built for commercial use) are warranted only when installed on vehicles built to R.V.I.A 119.2 and C.R.V.A, Z-240 Standards.
12. The Seller reserves the right to change the design of any product without notice and with no obligation to make corresponding changes in products previously manufactured.

DOMETIC, LLC
Warranty Department
2320 Industrial Parkway
Elkhart, Indiana 46516
Phone: 574-294-2511
Fax: 574-389-3955