NORCOLD®

Owner's Manual

For N61X models: 6 cu.ft., 2-way, R.V. refrigerators.
For N81X models: 8 cu.ft., 2-way, R.V. refrigerators.

The letter "X", in the model number above, stands for a letter or a numeral which means a refrigerator option.

⚠WARNING **WARNING: 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.**

English

NORCOLD, Inc.
P.O. Box 4248
Sidney, OH 45365-4248

Norcold Customer Service Dept.
Telephone: 800-543-1219
Fax: 937-497-3183
Web Site www.norcold.com

Part No 635485B (10/11/2012)

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For defined warranty terms, please see the one page warranty statement included in the product information packet.

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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.

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

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

Safety Instructions

⚠WARNING

- 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 writtten 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.

⚠CAUTION

- 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	N61X models	N81X models
	6.3 cubic feet	7.5 cubic feet

Leveling:

⚠CAUTION 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.

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.*

Crisper(s):

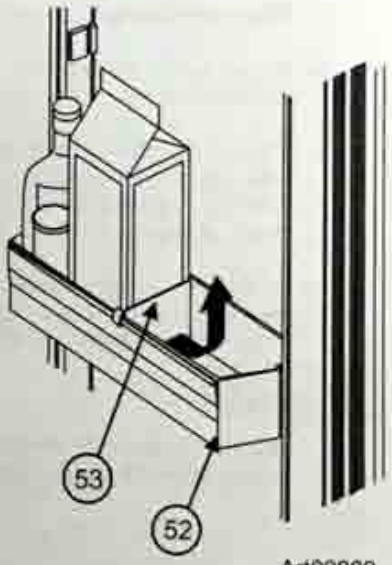
The crisper(s) are located at the bottom of the fresh food compartment and supply a storage area to preserve fruit and vegetable freshness. Make sure that you always push the crispers fully in.

NOTICE *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.

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



Art00989

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 each shelf of the fresh food compartment:

- Remove the screw from the retainer of each shelf at the rear of the refrigerator.
- Pull each shelf forward out of the slot.
- Push each shelf fully into the slot that you wish.
- Attach the retainer with the screw.

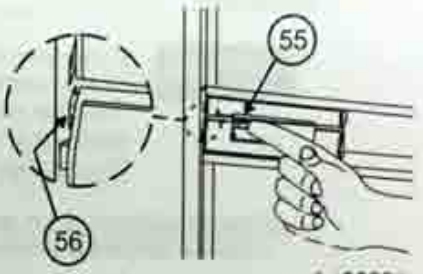
Door handles:

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.

During storage, the storage latch prevents the door from completely closing. Use it to prevent odors when the refrigerator is stored for an extended period of time.

To operate the storage latch (see Art00991), open each door about 1/2 inch and push the storage latch [55] into the cutout [56] of the strike plate. Do not use the storage latch as a travel latch because the doors will not be fully closed.



Art00991

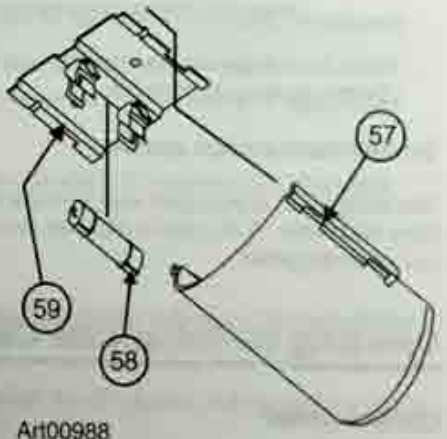
Interior light:

The interior light is at the top of the fresh food compartment. It comes on when the refrigerator is ON and the door is open. To replace the bulb:

1. Remove the DC power supply wires from the power board at the rear of 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. Connect the DC power supply wires to the power board at the rear of the refrigerator.



Art00988

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.

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:

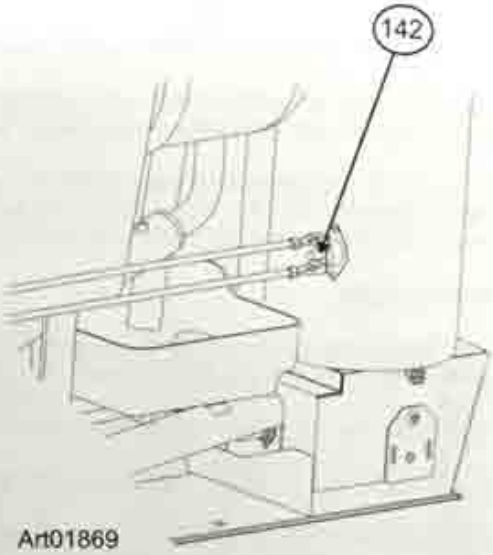
This refrigerator has a backup operating system. The backup operating system allows the refigerator to continue to cool if the temperature sensor of the refrigerator should fail.

If this failure occurs:

- The refrigerator automatically changes to the backup operating system.
  - The ON light flashes a fault code. See the "Fault Codes" section of this manual.
  - 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.

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 "5" is the coldest temperature setting.*

  - If the temperature is too warm, push the temperature switch to the right to raise the temperature setting by one number.
  - If the temperature is too cold, push the temperature switch to the left to lower the temperature setting by one number.
- Have the refrigerator serviced by your dealer or an Norcold authorized Service Center as soon as possible.



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.

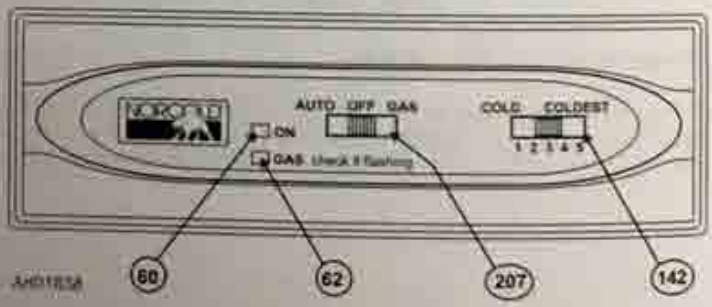
Operating the Refrigerator Controls

Control panel:

The refrigerator control panel (see Art01838) 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 selector switch [207] starts and shuts down the refrigerator.

- Push the selector switch to the AUTO position to start the refrigerator in auto mode.
- Push the selector switch to the GAS position to start the refrigerator on propane gas.



The temperature switch [142] controls the temperature adjustment of the freezer and the fresh food compartment. The temperature adjustment that you select does not change if the mode of operation of the refrigerator changes.

- Push the temperature switch to the desired temperature setting.
- The number "5" is the coldest temperature setting.

Refer to the "Display Codes" section of this manual.

Automatic mode operation:

When the refrigerator is in AUTO mode, it automatically uses the most efficient energy source that is available for operation. During operation, if a more efficient energy source becomes available, the refrigerator controls change from the current energy source to the more efficient energy source as follows:

- The first choice is AC operation if 120 volts AC is available to the refrigerator.
- The second choice is propane gas operation if 120 volts AC is not available to the refrigerator.

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 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 the selector switch to the GAS position and 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.
    - During the 30 second trial for ignition, both the ON and the GAS light show.
    - If the ON light [60] and the GAS light [62] both show after 30 seconds, 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 air in the propane gas supply lines prevents the burner from igniting on propane gas after 30 seconds the refrigerator controls close the gas safety valve and the igniter stops sparking.
        - Both the ON light and the GAS light flash about once every second.
        - Push the selector switch to the OFF position and then to the GAS position and the refrigerator will start a 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 automatic mode operation:

Push the selector switch to the AUTO position.

- If 120 volts AC is available to the refigerator, the ON light [3] shows.
    - This means that the refrigerator is operating on AC electric.
- If 120 volts AC is not available to the refigerator, the ON light and the GAS light both show.
    - This means that the refrigerator is operating on propane gas.

If the energy source is interrupted:

- The refrigerator shows a fault code.
- Refer to the "Fault Codes" section of this manual.

Set the controls to manual mode operation:

- Push the selector switch to the GAS position.
- When the ON light and the GAS light both show, this means that the refrigerator is operating on propane gas.

If the energy source is interrupted:

- The refrigerator shows a fault code.
- Refer to the "Fault Codes" section of this manual.

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.

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

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:

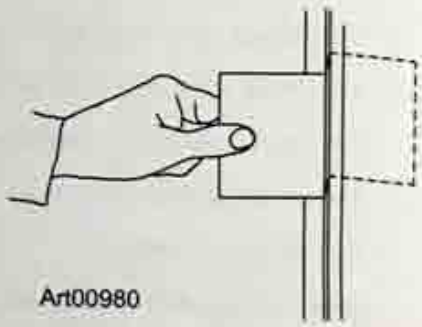
- Pull the shelf forward to remove from the refrigerator
- Make sure that the drip tray is empty of water.
- Pull the drip tray out of the drain hose.
- Pull the drip tray forward to remove from the slots in the refrigerator cabinet.
- Clean the drip tray.
- Push the drip tray back into the slots in the refrigerator cabinet.
- Push the drip tray back into the drain hose.
- Put the wire shelf back in the original position.

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.



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 thermocouple tip is clean and secure.
- 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.
- Close the doors with the storage latch.

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.

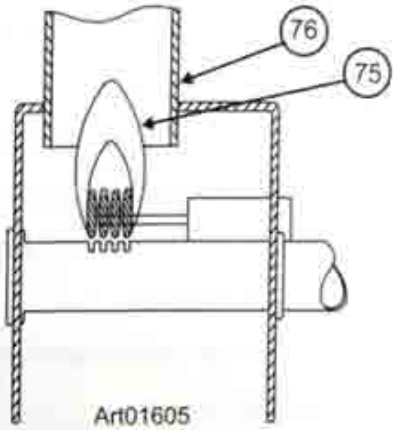
Gas flame appearance:

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

- Turn the temperature switch to the COLDEST position.
- Open the lower intake vent.

CAUTION **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.



Art01605

  - 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:

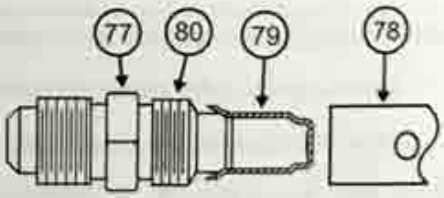
Your dealer or Norcold authorized service center must do this procedure.

Remove and clean the burner orifice (See Art00956):

- Close the valve at the propane gas tank(s).
- Push the selector switch to the OFF position 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.



Art 00956

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 burner [78] from the orifice assembly.

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.

CAUTION **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).

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

2. Remove the AC power cord(s) 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. Open the lower intake vent and 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.

WARNING **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.

WARNING **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).

WARNING **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.**

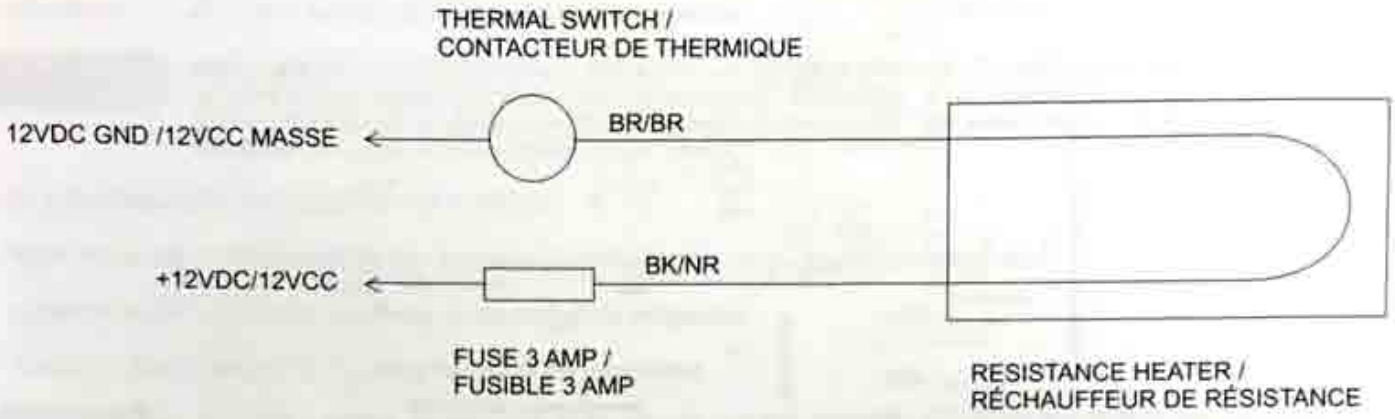
7. Examine the gas supply line for leaks.
8. Connect the DC wiring to the refrigerator:
   - Connect the DC wires to the refrigerator.
   - Install the DC fuse or connect the DC wiring to the battery or the converter.
9. Connect the black AC power cord to the receptacle.

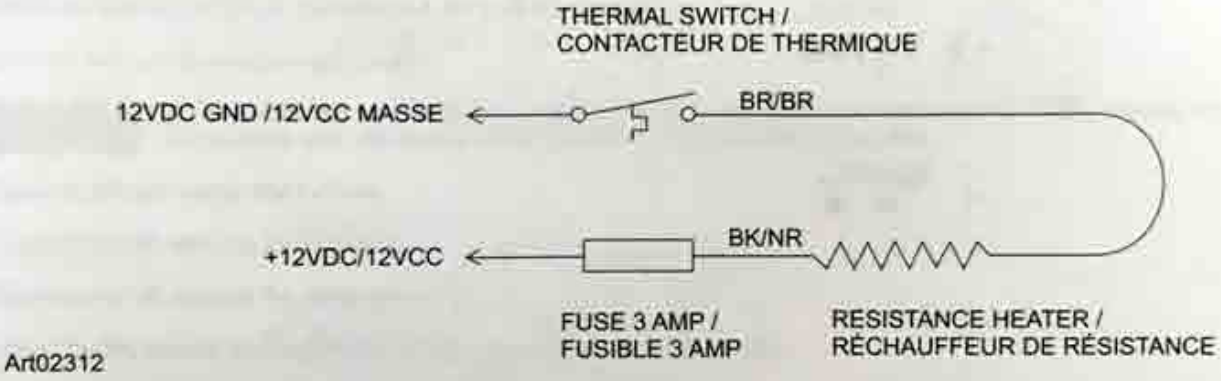
Wiring Diagram and Pictorial

The parts in the wiring diagram are (See Art01871):
The parts in the wiring pictorial are (See Art01872):

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

Wiring Diagram and Pictorial - Low Ambient Heater (optional)





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.

Display Codes

Light and Status	Meaning
ON light is on. GAS light is off.	The refrigerator is operating on AC.
ON light is on. GAS light is on.	The refrigerator is operating on propane gas.

Fault Codes

Light and Status	Meaning	Corrective Actions
ON light is off.	DC voltage is unavailable to the refrigerator control panel or the refrigerator is OFF.	Check: - That the refrigerator is ON. - 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.
ON light and GAS light both flash about once per second.	No energy source is available. AC voltage is not available (or the refrigerator is in Manual GAS mode), and the burner did not ignite or re-ignite.	If in AUTO mode, check: - That the refrigerator is plugged into a servicable oulet. - That the fuse or circuit breaker of the vehicle is intact. - That the vehicle generator is operational (if applicable). In any mode, check: - That there is not air in the propane gas supply line. See "Removing air fromthe propane gas supply lines" section of this manual. - 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. - Reset the refigerator by turning it OFF and then back to AUTO or GAS mode. - See your dealer or authorized Norcold Service Center.
ON light is on. GAS light flashes about once per second.	The burner did not ignite or re-ignite. The refrigerator is in "gas lock-out", but AC voltage has returned and the refrigerator is operating on AC.	Check: - That there is not air in the propane gas supply line. See "Removing air fromthe propane gas supply lines" section of this manual. - 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. - Reset the refigerator by turning it OFF and then back to AUTO or GAS mode. - See your dealer or authorized Norcold Service Center.
ON light is on, but flashes off 1 time about every 3 seconds.	The temperature sensor failed. The refigerator is operating on the "Back-Up Operating System".	This is not owner serviceable. See your dealer or authorized Norcold Service Center.
ON light is on, but flashes off 3 times about every 3 seconds. GAS light is on.	The AC heater failed. The refrigerator will operate on propane gas only.	This is not owner serviceable. See your dealer or authorized Norcold Service Center.
ON light is on, but flashes off 4 times about every 3 seconds.	This is a fault within the refrigerator operating controls.	This is not owner serviceable. See your dealer or authorized Norcold Service Center.

633430A (3-09)

NORCOLD®

Warranty Registration

To activate your limited warranty, register online at www.norcold.com or complete and mail the attached warranty registration card today.

Enregistrement de garantie

Pour activer la garantie limité, s'inscrire en ligne à www.norcold.com ou remplir la carte d'inscription de garantie ci-jointe et la renvoyer dès aujourd'hui.

(Cut on line) (Couper sur la ligne)

Apply First-Class postage

Prière d'affranchir en première classe

Norcold, Inc.
Customer Service Center
P.O. Box 1285
Ann Arbor, MI 48106-9977
U.S.A.

NORCOLD®

Warranty Registration

As a RV buyer, you want to receive the most for your money.

With the Norcold limited warranty, that is exactly what you get.

Norcold is the only American made RV refrigerator.

To activate your limited warranty, register online at www.norcold.com or complete and mail the attached warranty registration card today.

L'enregistrement De garantie

Comme un RV acheteur, vous voulez recevoir le plus pour votre argent.

Avec le Norcold limiter la garantie, qui est exactement ce que vous obtenez.

Norcold est le seul Américain fait RV réfrigérateur.

Pour activer la garantie limitée, s'inscrire en ligne à www.norcold.com ou remplir la carte d'inscription de garantie ci-jointe et la renvoyer dès aujourd'hui.

(Cut on line) (Couper sur la ligne)

Online registration available @ www.norcold.com / Inscription en ligne disponible à www.norcold.com.

NORCOLD®

Warranty Registration Card
Carte d'enregistrement de garantie

Please type or print clearly.
Prière de taper ou écrire lisiblement.

Name
Nom

Address
Adresse

City
Ville

State / Province
État/Province

Country
Pays

Zip Code
Code postal

Phone
Téléphone

Email
Email

Refrigerator Purchase Date (mm/dd/yy)
Date d'achat du réfrigérateur (mm/j/aa)

Refrigerator Model Number
N° de modèle du réfrigérateur

NOTE: The refrigerator model and serial numbers are on the inside right hand wall of the fresh food compartment.
REMARQUE: Les numéros de modèle et de série du réfrigérateur se trouvent sur la paroi intérieure droite du compartiment des denrées fraîches.

Refrigerator Serial Number
N° de série du réfrigérateur

Vehicle Model Year (mm/dd/yy)
Année du véhicule (mm/j/aa)

Vehicle Manufacturer
Fabricant du véhicule

Vehicle Brand
Marque du véhicule

Vehicle Manufacture Date
Date de fabrication du véhicule

Vehicle Identification Number (VIN)
N° d'identification du véhicule (NIV)

Warranty Statement

Please keep for your records

NORCOLD INC.

Gas Absorption Refrigerator

One-Year Limited Warranty

Norcold, Inc. warrants for a period of one (1) year from the date of purchase gas absorption refrigerators that Norcold, Inc. will repair or replace defective components of its gas absorption refrigerators used for personal, family or domestic purposes. The duration of the warranty for gas absorption refrigerators used in commercial applications is ninety (90) days from the date of purchase.

The Limited Warranty Coverage Includes

1. Part coverage (repair or replacement of defective parts).
2. Freight (ground service only) for shipment of a replacement part and for shipment of a part required to be returned to Norcold.

Limitation of Warranty

1. This warranty does not apply to products which have been subjected to misuse, negligence, accident, fire, improper repair, improper installation, alteration, failure to follow the usage or winterization instructions contained in the owner's manual, or any other unreasonable use.
2. The owner must transport the Gas Absorption Refrigerator to a Norcold service center for warranty repair or replacement. Except as stated above, all labor and transportation costs or charges are the responsibility of the owner.
3. All replacement parts must meet Norcold Inc. specifications.
4. The duration of any implied warranty is limited to one (1) year from the date of purchase.
5. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Limitation of Remedy

What the Limited Warranty does NOT Cover:

1. Shipping methods other than ground service.
2. Defects in glassware, electric light bulbs, or fuses.
3. Fee for mobile repair service.
4. Mileage or travel expense to obtain warranty service.
5. Recommended maintenance as specified in the Owner's Manual.
6. In no event shall Norcold Inc. be responsible for: consequential or incidental damages including but not limited to charges or claims for labor (including labor when no parts are used for repair), lost time, lost profits, and loss of use.
7. Some states do not allow the limitation or exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

To obtain warranty service, contact Norcold Customer Service at 800-543-1219 or info@norcold.com.

Legal Rights

This warranty gives the owner specific legal rights and you may have other rights, which may vary from state to state.

Form No. 6333688 (0213)

ESPECIALLY FOR YOU!

EXTENDED SERVICE PLAN

NORCOLD INC.



Thank you for choosing a vehicle equipped with a Norcold refrigerator. It was proudly made in America by an American-owned company with American quality built in every step of the way – and is backed by an exceptional and comprehensive Limited Warranty.

Simply put, you can be confident that your Norcold refrigerator will meet the highest industry standards.

Your refrigerator's Limited Warranty covers all major components. As you'll see on the enclosed documents, we also offer optional 1-, 2-, 3- or 4-Year ***Extended Service Plans*** *that enable you to add coverage to functional components (excluding cosmetics) for unsurpassed protection. These options offer additional security and peace of mind should your refrigerator need service during that time.*

With Norcold's ***Extended Service Plan****, a needed repair need not result in an unplanned repair bill. The Plan provides for:*

1. *Fast service from a vast network of trained and qualified service technicians throughout North America.*
2. *Replacement part(s) and labor on defective functional parts.*
3. *Genuine Norcold replacement part(s).*
4. *Pre-paid ground freight for replacement parts (and, if requested, return of defective parts).*
5. *Norcold's commitments to return you to the road as soon as possible and with complete satisfaction, and to help assure your refrigerator's long-term performance.*

To enroll in one of Norcold's ***Extended Service Plans****, complete and mail the enclosed form with payment (check, money order or credit card information) in the provided envelope.*

We'll mail you an ***Extended Service Plan*** *Card upon receipt of your application and payment. Then, your extended coverage will automatically go into effect the day your Limited Warranty expires.*

As you look through the enclosed documents, please note that to take advantage of this offer, you must respond ***prior to the expiration of your refrigerator's Limited Warranty.***

Again, thank you for choosing Norcold.

Sincerely,

Mary P. Pouliot
Director of Customer Service

Form #6334268 (1009)

ESP

EXTENDED SERVICE PLAN

NORCOLD INC.



Extended Service Plan for Gas Absorption Refrigerator Models Terms and Conditions

Norcold Extended Service Protection Plan coverage begins the day the Norcold One (1)-Year Limited Warranty expires. The refrigerator must be registered during the standard One-Year Limited Warranty period to be eligible for the extra coverage provided in this Extended Service Plan. It applies only to the original purchaser, is non-transferable and cannot be extended beyond 4 years on major components.

The Extended Service Plan Coverage Includes

1. Replacement of major component parts only for the duration of the Plan purchased, including: cooling unit, power board, optical board, thermostat, gas valve, AC/DC heater and ice maker.
2. Labor for the duration of the Plan purchased.
3. Freight (ground service only) for shipment of a replacement part and for shipment of a part required to be returned to Norcold, Inc.

Limitation of Extended Service Plan

1. This coverage does not apply to products which have been subjected to misuse, negligence, accident, fire, improper repair, improper installation, failure to follow the usage or winterization instructions contained in the Owner's Manual, or any other unreasonable use.
2. This coverage does not apply to products used in a commercial recreational vehicle application.
3. The refrigerator must be installed, maintained and used as described in the Owner's manual.
4. Coverage is void if the serial plate/sticker has been effaced, altered, or removed, or if the product has been repaired or altered by persons other than Norcold, Inc.
5. Service work must be completed by an authorized Norcold service facility.

Limitation of Remedy

The Extended Service Plan Coverage does not cover:

1. Mileage or travel expense to obtain service.
2. Shipping methods other than ground service.
3. Defects in any component other then major components as defined above.
4. Incidental or consequential loss or damage including, but not limited to, charges or claims for labor (including labor when no parts are used for repair), lost business, lost time, lost profits, loss of food, and loss of use.
5. Use of replacement parts (generic) not conforming to Norcold, Inc. specifications.

The Extended Service Plan is non-transferable. You may cancel the Extended Warranty Protection at any time, for any reason. Your request for cancellation must be in writing and accompanied by your card. Upon cancellation, Norcold will refund any unused portion of your Extended Warranty Protection, less a $20 handling fee.

Form #623491A (0409)

ESP

EXTENDED SERVICE PLAN

NORCOLD INC.

Enrollment Form for N6XX & N8XX Models:

Complete the application below. Choose your Plan – either 1, 2, 3 or 4 years. Application must be received by Norcold before the refrigerator's One-Year Limited Warranty expires.

Customer Information

Name _____

Address _____

City _____ State _____ Zip _____

Country _____ Phone _____

Email _____

How did you learn of the ESP? ☐ Mail ☐ Email ☐ Website ☐ Phone Rep
☐ Other _____

Refrigerator Information

Model _____ Date Purchased _____

Serial # _____

Note: See your Refrigerator's Owner's Manual for ID label location.

Vehicle Information

Manufacturer _____ Vehicle ID# _____

Make/Model _____ Year _____

Enrollment Information (payment is in U.S. Funds)

☐ Check or money order (**payable to Norcold**)

Choose your Service Plan

☐ 1-Year	$119.95
☐ 2-Year	$159.95
☐ 3-Year	$199.95
☐ 4-Year	$249.95
Add 7% sales tax	$____.__ *(Ohio residents only)*
Total	$____.__

Mail to:

Extended Service Plan
PO Box 1285
Ann Arbor, MI 48106

Fill out below if paying by credit card

Please charge my: ☐ VISA ☐ Mastercard

Account # _____ - _____ - _____ - _____ Expires __ / __

Name _____ Security Code _____
as it appears on the card *from back of card*

Signature _____

Form #633978 (1011)