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DEFECTS INVESTIGATION

March 22, 2002

Mr. Kenneth N. Weinstein
Associate Administrator for Safety Assurance
National Highway Traffic Safety Administration
400 7th Street, SW
Washington, DC 20590

Re: NHTSA Campaign Number 00E-031

Dear Mr. Weinstein:

On June 5, 2000, Norcold Inc., 600 S. Kuther Rd., Sidney, Ohio 45365 (Phone 937-497-3080, Fax 937-497-3167) provided a Defect Information Report with respect to cooling units in combination gas/electric absorption refrigerators which are sold for installation in recreational vehicles (RVs). The report concerned Norcold model numbers N841, N821, N641 and N621. The population of units recalled was defined by production between May 1999 to October 1999 having cooling unit serial numbers between 1038000 and 1099000, representing 40,376 units.

Norcold reported at the time that the defect was a low cycle fatigue failure in a section of the cooling unit which generates the refrigerant. It reported that the failure was induced by elevated heat inputs during operation in AC electric mode. It further reported that the consequences of the failure could, under limited conditions, lead to the liquid solution being slowly eliminated from the sealed, pressurized cooling unit at a microscopic crack in the device, potentially leading to a fire from a gas which might escape. That information remains accurate.

The remedy selected was to replace the heating element with another of different dimension and in a different location. This was expected to solve the problem of heat build-up at a certain location in the cooling unit which was felt to possibly compromise the cooling unit, precipitating a potential for leaking. A field campaign to accomplish the replacement was immediately undertaken and has been underway for more than six quarters. As of March 18, 2002, there have been 15,993 heater kit replacements.

As the campaign has been undertaken, additional opportunity has been created to evaluate the field experience of units as they have been presented for replacement. Also, opportunities have been created to evaluate the effectiveness of the replacement heating element as a means to alleviate the potential for cooling unit compromise.

Regional
23666 Cooper Drive
Elkhart, IN 46515
Phone: 219-266-6660
Fax: 219-266-5779

Headquarters
600 S. Kuther Road
P.O. Box 180
Sidney, OH 45365
Phone: 937-497-3080
General Fax: 937-497-3085
Administrative Fax: 937-497-3167

Gettysburg
1 Century Drive
Gettysburg, OH 45328
Phone: 937-447-2241
Fax: 937-497-3074

It is the conclusion of Norcold, Inc. that the replacement of the heating element as originally proposed is inadequate to address the potential for creating compromise in the cooling unit. It is now the conclusion of Norcold that an appropriate remedy requires replacement of the entire cooling unit with one of different design and configuration, rather than merely replacing the heating element. This decision is being made in the interest of safety to the motoring public.

Therefore, Norcold, Inc. wishes to advise that it is amending its recall campaign to replace the cooling unit in the entire population of affected refrigerators, rather than the heating element. Where in the past a heating element was replaced, Norcold will campaign to recapture the unit in order to effectuate a change in the cooling unit. An amended campaign to accomplish these goals is underway immediately. Norcold has initiated the process to retrieve all heater kits in the field to assure no more heater kits are installed into cooling units. It should be noted that a cooling unit replacement was part of the original remedy defined in this process, if there was evidence of a leak; as noted, we are now adopting this as the only remedy.

Norcold is undertaking a campaign to notify OEMs, dealers, service centers and vehicle owners who have a heater replacement installed of the availability of a free replacement cooling unit for their refrigerator in exchange for the original cooling unit in affected models. Enclosed are cooling unit replacement instructions and additional literature pertinent to the campaign to alert dealers, service centers and vehicle owners of the availability of a free replacement cooling unit in those units not already addressed in that fashion. Because Norcold has already received the data necessary from their OEM customers with which to contact the vehicle owners, and because Norcold already has a staff and program in place dedicated to effectuating a remedy for these refrigerators, this amendment in procedure and equipment is able to be implemented without further delay.

Norcold recognizes and plans to make quarterly reports of its activity for six additional quarters commencing immediately, despite the fact that it has reported on this campaign for many quarters already.

As additional relevant information is gathered, Norcold will submit it to you along with the other appropriate information needed to comply with NHTSA defect notification requirements. Please feel free to contact the undersigned if additional information is required.

Sincerely,



James G. Liggett
Senior Vice President and General Manager

OWNER SAFETY DEFECT NOTIFICATION:

This notice is to inform you of an **AMENDED** plan to our recent recall service performed on your RV refrigerator. This notice is sent to you in accordance with requirements of the National Traffic and Motor Vehicle Safety Act and Transport Canada.

Our records indicate you have had a heater element replaced in your cooling unit; we now want to replace the entire cooling unit in your refrigerator. We regret any inconvenience this may cause, we do want to assure your refrigerator provides you years of safe, reliable and dependable service.

Beginning immediately and until your dealer or service center can repair the safety defect, Norcold is asking you to unplug your refrigerator AC cord and operate your refrigerator on propane gas power only (or DC power, if available, while in transit). No AC electrical power operation should occur as it could create an unsafe condition. Your refrigerator controls must be set on "manual" mode only. Do not set control in the "auto mode," as it will convert to AC when AC is available.

Norcold, a manufacturer of refrigerators for the recreational vehicle industry, has determined that a potential safety defect exists in certain Norcold gas/electric refrigerators and, as such, the vehicles equipped with these refrigerators. The Norcold models affected are N841, N821, N641 and N621 manufactured in the period from May 1999 through November 1999. Information provided to us indicates you may have one of the refrigerators in a vehicle registered to you. **If you no longer own this vehicle, please notify us so that we may be able to contact the current owner about the safety defect information.**

Corrective action is required for the model numbers N841, N821, N641, and N621 if the serial number of the cooling unit on your refrigerator falls between 1038000 and 1099000. The cooling unit serial number is located on the solution chamber which can be viewed through the refrigerator vent door on the outside of your vehicle. The serial number on the cooling unit differs from the serial number of your refrigerator.

Contact your dealer or an authorized Norcold service center as soon as possible to arrange a service date. To locate the service center nearest you, call 1-800-767-9101 and follow the menu options or visit our web site at www.norcold.com.

If your dealer or an authorized Norcold service center fails or is unable to remedy this defect without charge and within a reasonable time, please contact Norcold at 1-800-767-9101. You may submit a written complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington, DC 20590, or call 1-888-327-4236 (Washington DC residents call 1-202-366-0123) if remedy difficulties exist.

In the event you no longer own the vehicle, please help us locate the new owner by completing the enclosed postage paid reply card and returning it to us.

We regret any inconvenience related to this recall campaign. Our first priority is safety and the satisfaction of our customers. Thank you for your attention to this important matter.

Sincerely,

Deborah Stillings
Customer Service Manager

DEALERS AND SERVICE CENTERS SAFETY DEFECT NOTIFICATION:

This notice describes an **AMENDED** plan to the current remedy in place for the N600/N800 product recall.

This notice is sent to you in accordance with requirements of the National Traffic and Motor Vehicle Safety Act and Transport Canada.

Norcold, a manufacturer of refrigerators for the recreational vehicle industry, has determined the remedy in place today to repair a potential safety defect **NEEDS TO BE A COOLING UNIT REPLACEMENT**. Additionally, **EVERY REPLACEMENT HEATER KIT YOU HAVE INSTALLED WILL NOW REQUIRE A NEW COOLING UNIT**. The Norcold models affected are N841, N821, N641 and N621 manufactured in the period from May 1999 through November 1999.

Corrective action is required for the model numbers N841, N821, N641, and N621 if the serial number of the cooling unit on a refrigerator falls between 1038000 and 1099000. The cooling unit serial number is located on the solution chamber which can be viewed through the refrigerator vent door on the outside of a vehicle. **The serial number on the cooling unit differs from the serial number of the refrigerator.**

The nature of the defect is a cooling unit leak caused by thermal expansion during operation in the AC electric mode. A yellow powder residue will be evident in the heating area if a leak occurs. If a leak occurs, the cooling performance of the refrigerator will deteriorate requiring a replacement of the cooling unit. If the refrigerator continues to be operated after the majority of the solution has leaked, the AC heat source can generate very high temperatures causing a rupture in the steel tubing. If the pressuring gas is still in place when a rupture occurs, hydrogen gas may be expelled and can, under extreme conditions, be ignited by the high temperature thereby possibly causing a fire. **Consumers will be advised to operate their refrigerator on propane gas power only (or DC power, if available, while in transit), until repairs are complete, as either operating mode does not create a failure or hazardous condition.**

The corrective action is to REPLACE the cooling unit. Total time allowance for a cooling unit replacement will be 3 hours. All parts and the labor to install will be at no charge to the consumer. All defective cooling units removed must be returned to Norcold. Upon receipt of the claim form, you will be reimbursed for three (3) hours at your standard labor rate. The consumer will be responsible for transportation of their vehicle to the servicing location.

IMPORTANT: Some of the involved refrigerators may be in dealer inventory. Federal law requires the corrective action to be completed on these refrigerators before retail delivery. To identify if a refrigerator requires corrective action, verify the cooling unit serial number as referenced above.

Owner notification is expected to begin early April, 2002. Owners are being instructed to contact their RV dealer or a Norcold authorized service center to arrange a service date. A copy of the owner notification and corrective action procedures are attached. Since the majority of units are in RVs built in the period from May 1999 through November 1999, we would appreciate any assistance you could provide in helping us to notify owners of these vehicles.

All cooling unit replacements required under this specific recall program will be shipped direct to you from Norcold at no charge and include the necessary forms for processing your claim for labor reimbursement. Our production supply lead times may create some delays in our ability to keep pace with demand, so we appreciate your patience and understanding. Be prepared to supply owner information for each cooling unit ordered: customer name, refrigerator model number and serial number.

We appreciate your cooperation and assistance in conducting this program. Our first priority is safety and the satisfaction of our customers. If you should have questions please call 1-800-767-9101.

Sincerely,

Deborah Stillings
Customer Service Manager

02E-019 (5/12)

DISTRIBUTORS SAFETY DEFECT NOTIFICATION:

This notice describes an AMENDED plan to the current remedy in place for the N600/N800 product recall. This notice is sent to you in accordance with requirements of the National Traffic and Motor Vehicle Safety Act and Transport Canada.

Norcold, a manufacturer of refrigerators for the recreational vehicle industry, has determined the remedy in place today to repair a potential safety defect needs to be a cooling unit replacement. Additionally, every replacement heater kit installed will now require a new cooling unit. The Norcold models affected are N841, N821, N641 and N621 manufactured in the period from May 1999 through November 1999.

IMPORTANT: It is Norcold's responsibility to advise you that you are prohibited from selling a product which has been identified by this corrective action campaign.

Corrective action is required for the model number N841, N821, N641, and N621 if the serial number of the cooling unit on a refrigerator falls between 1038000 and 1099000. The cooling unit serial number is located on the solution chamber. The serial number on the cooling unit differs from the serial number of the refrigerator.

The nature of the defect is a cooling system leak caused by operation in the AC electric mode. If a leak occurs, the cooling performance of the refrigerator will deteriorate. A yellow powder residue will be evident in the heating area of the cooling unit if a leak exists. **Extended operation of a leaking cooling unit in the AC electric mode may result in a fire.**

Consumers will be advised to operate their refrigerator on propane gas power only (or DC power, if available, while in transit), until repairs are complete, as either operating mode does not create a failure or hazardous condition. **Dealers and service centers will be advised to obtain all replacement cooling units direct from Norcold for this recall campaign.**

We ask that you review your inventory for the models listed above. Prepare a listing by model and serial numbers of refrigerators within this suspect group and contact Norcold for further instructions.

NOTE: Before returning any new, in-stock refrigerators and/or cooling units with a cooling unit serial number in the serial number range of 1038000 to 1099000, call Norcold for a RMA (Return Material Authorization) number.

In addition, we ask that you check your cooling unit service parts inventory, for part numbers 618543 and 618542. Any cooling units having a serial number between 1038000 and 1099000 with the above part numbers must be returned to Norcold.

We regret any inconvenience related to this recall campaign. If you should have any questions please call 1-800-767-9101.

Sincerely,

Deborah Stillings
Customer Service Manager



02E-019 6/12

Instructions to Replace the Refrigerator Cooling System

These instructions describe how to replace the cooling system. Read and understand these instructions before you begin to remove and replace the cooling system. Incorrect installation, adjustment, or alteration can cause poor cooling performance, injury or property damage.

Use special care when handling and returning the absorption cooling system if it is being replaced because of a leak. The cooling system contains a solution of ammonia, sodium chromate tetrahydrate, sodium hydroxide, and water. To dispose of any liquid waste or residue, refer to pre-emergency planning and to all applicable local, state, and federal regulations. Do not release any waste or residue directly into sewers or surface waters. If any liquid leaks or spills from this cooling system, contact your environmental personnel.

WARNING:

- 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.
- If the contents of the cooling system are leaking, make sure any ignition sources are away from the cooling system.
- Do not bend, drop, weld, move, drill, puncture, or hit the cooling system.

FIRST AID: For skin or eye contact:

- Immediately flush the eyes or skin with water for at least 15 minutes.
- Call a doctor.

Cooling System Service Pack Contents

NOTE: Carefully open the cooling system service pack so that you can use the same packaging to return the existing cooling system.

Replacement cooling system	1
Transfer mastic (marked "T")	1 tube
Permagum sealer (marked "P")	1 tube
Plastic bag	1
Information Pack	1
Screws	8-12

Remove the Existing Cooling System

1. Close the valve of the gas supply tank(s).
2. Remove the 120 VAC and the 12 VDC (if so equipped) power supply wires from the refrigerator.
3. Remove the gas supply line from the burner.
4. Remove the refrigerator from the enclosure as written in the Owner's Manual.
5. If necessary, remove the burner box bottom and cover from the existing cooling system.
6. Remove the burner, thermocouple (if so equipped), and/or the spark electrode from the burner bracket of the existing cooling system.
7. Pull the AC and DC heater (if so equipped) out of each recess of the existing cooling system.
 - Save the heater(s)
8. Remove the thermistor or capillary tube from the fins inside the refrigerator.
9. From the inside of the freezer, remove the screws and washers that attach the cooling system to the back of the freezer.
 - Depending on the model of refrigerator, there may be either four or eight screws.
 - Save the screws and washers for assembly of the replacement cooling system.
10. Remove the screws that attach the cooling system to the rear of the refrigerator.
 - The screws go through metal plates of the cooling system and into the cabinet of the refrigerator.
 - Depending on the model of refrigerator:
 - There may be either one or two screws at the upper part of the cooling system.

- There are two screws at the lower part of the cooling system.
 - Save the screws for assembly of the replacement cooling system.
11. Using a strong and steady force, pull the existing cooling system plug out of the refrigerator.
 12. Remove the fins from the existing cooling system.
 - Remove the screws that attach the fins to the existing cooling system.
 - Save the screws for assembly of the fins to the replacement cooling system.
 - Carefully pull the fins off of the existing cooling system.
 - Save the fins for assembly to the replacement cooling system.
 13. Using a putty knife, remove the existing transfer mastic from the back of the evaporator plate of the refrigerator and from the fins.

Return the Existing Cooling System

1. Put the existing cooling system into the plastic bag supplied.
2. Put the existing cooling system and plastic bag into the same packaging that contained the replacement cooling system.
3. Put the completed claim form into the same packaging that contained the replacement cooling system.
4. Put the Federal Express return address label onto the outside of the cooling unit packaging.
5. Call Fed. Ex at 1-888-777-6040 to schedule pick-up. Federal Express will pick-up the following business day.

Prepare the Replacement Cooling System

1. Apply the transfer mastic to the replacement cooling unit (See Art01121):
 - Remove the tip from the caulking tube of transfer mastic that is marked "T".
 - Locate the evaporator tubes [1] on the front of the foam block [2] of the replacement cooling system.
 - Put a 1/2 inch bead of transfer mastic [3] on the evaporator tubes.
2. Apply the permagum sealant to the replacement cooling unit:

NOTE: Correct application of the permagum sealant prevents air leakage into the refrigerator. This reduces frost build up inside the refrigerator which improves the cooling performance of the refrigerator.

- Remove the tip from the caulking tube of permagum sealant that is marked "P".
- Put a 1/2 inch bead of permagum sealant [2] around the edge of the foam block [1] of the replacement cooling system (See Art01123).
 - Put the 1/2 inch bead of permagum sealant in the flat area of the step.
- Put a 1/2 inch bead of permagum sealant around the cooling system opening [1] in the back of the refrigerator cabinet (See Art01124):
 - Put the 1/2 inch bead of permagum sealant [2] in the flat area of the step.

Install the Replacement Cooling System

1. Put the fins into the opening of the refrigerator cabinet.
 2. Put masking tape around the outer edge of the fins.
 3. Push the foam block of the replacement cooling system into cooling system opening in the back of the refrigerator cabinet.
 4. Attach the fins to the replacement cooling system:
 - Align the holes in the fins with the holes in the plate of the replacement cooling system.
 - Install and tighten all of the screws to a max. torque of 50 inch-pounds.
 5. Inside the freezer, install the replacement screws and the original washers that attach the cooling unit to the back of the freezer.
 - Align the holes in the back of the freezer with the holes in the replacement cooling system.
- NOTE: You may wish to use an awl, an ice pick, etc. to align the holes.
- If one of the screws is longer than the others, install it first to pull the cooling unit against the back of the freezer.
 - Install and tighten all of the screws to a max. torque of 50 inch-pounds.
6. Install the screws that attach the cooling system to the rear of the refrigerator.
 - Put the screws through metal plates of the cooling system and into the cabinet of the refrigerator.
 - Depending on the model of refrigerator:
 - There may be either one or two screws at the upper part of the cooling system.
 - The screws may be attached either at the rear of the refrigerator or the top of the refrigerator.
 - There are two screws at the lower part of the cooling system.

- Do not tighten the screws completely at this time.
7. Make sure the condenser of the replacement cooling system has the correct slant (See Art01119).
 - Using a level, make sure that the top of the refrigerator is level from side-to-side.
 - If the refrigerator is not level, put shims under the refrigerator until it is level.
 - Draw a level line [1] from the top left corner of the condenser [2] across the back of the refrigerator cabinet.
 - Make sure that the right top corner of the condenser is the correct distance from the level line:
 - If the refrigerator has one door, the distance [3] must be between 5/8 inch min. and 1 inch max.
 - If the refrigerator has two doors, the distance [3] must be between 3/4 inch min. and 1 1/4 inch max.
 - Raise or lower the top left corner of the condenser as necessary so the distance is correct.
 - Make sure that the top left corner of the condenser is not higher than the top of the refrigerator cabinet.
 - Tighten all of the screws.
 8. Attach the thermistor to the fins inside the refrigerator.
 9. Assemble the burner box bottom and cover to the replacement cooling system.
 10. Put the AC heater and the DC heater (if so equipped) down into each recess of the replacement cooling system.
 - Make sure that each heater is completely down into the recess.
 11. Push the two plastic grommets into the holes of the burner box cover.
 12. Install the burner and the spark electrode onto the burner bracket of the replacement cooling system.
 13. Put the refrigerator into the enclosure as written in the Owner's Manual.
 14. Attach the gas supply line to the burner.
 15. Open the valve of the gas supply tank(s).
 16. Examine the gas supply line and connections for leaks.

Put the wooden block and level on a flat surface in the refrigerator [3] (glass shelf, etc.) so the ends point toward the sides of the refrigerator. Most of the bubble [4] of the level must be to the "A" side of the center line. Turn the wooden block and level end for end. Most of the bubble of the level again must be to the "A" side of the center line.

If most of the bubble of the level is to the "B" side of the center line in either direction, the refrigerator is more than 3° off level side-to-side.

02E-019 (8/12)

Refrigerator level tool:

This is a handy tool to make sure the refrigerator is within 3° off level side-to-side (See Art01128). Make a wooden block [1] that is exactly to the dimensions shown. The thickness of the is not important, but the top and bottom surfaces of the wooden block must be flat and smooth. Use an accurate torpedo type level [2].



Instructions pour le remplacement du système de réfrigération

Ces instructions expliquent comment remplacer le système de réfrigération. Elles doivent être lues et comprises avant de commencer l'intervention. Une installation incorrecte, un mauvais réglage ou la modification du système peuvent altérer les performances, être cause de blessures ou de dégâts aux biens matériels.

Faire très attention lors de la manipulation du système de refroidissement par absorption suite à une fuite. Le système contient une solution à base d'ammoniaque, de chromate de sodium tétrahydraté, de soude caustique et d'eau. Consulter les règlements fédéraux, provinciaux et locaux applicables, les directives de pré-urgence avant de se débarrasser des résidus et des déchets liquides. Ne rejeter aucun déchet ni résidu directement dans le tout à l'égout ou dans un plan d'eau en surface. Entrer en contact avec le personnel chargé des questions environnementales de votre entreprise.



MISE EN GARDE :

- Le système de réfrigération est sous pression.
- Ne pas tenter de réparer ni de recharger un système défectueux.
- Le système de réfrigération renferme du chromate de sodium. L'inhalation de certains composés chimiques contenant du chrome peut causer un cancer.
- La solution du système de réfrigération peut brûler sévèrement la peau et les yeux et peut s'enflammer et brûler avec des flammes importantes.
- Si le système de réfrigération fuit, s'assurer qu'il n'existe aucune source d'inflammation près du système.
- Ne pas laisser tomber le système sur le sol, ne pas le tordre, ne pas souder, ne pas percer, perforer ni frapper le système de réfrigération.

PREMIERS SOINS : En cas de contact accidentel avec la peau ou les yeux :

- Rincer abondamment les yeux ou la peau avec de l'eau pendant au moins 15 minutes.
- Appeler un docteur.

Contenu de la trousse de réparation

REMARQUE : Ouvrir l'emballage avec précaution afin de pouvoir le réutiliser pour renvoyer l'élément défectueux. La trousse de réparation comprend :

- 1 système de réfrigération de remplacement
- 1 tube de mastic (identifié T)
- 1 tube de produit d'étanchéité permagum (identifié P)
- 1 sac plastique
- 1 fiche d'instructions
- 8-12 vis

Dépose du système de réfrigération existant

- 1 Fermer le robinet du (des) réservoir(s) d'alimentation en gaz.
- 2 Débrancher les fils d'alimentation électrique 120 Vca et 12 Vcc (s'ils existent) du réfrigérateur.
- 3 Déposer la conduite d'alimentation en gaz du brûleur.
- 4 Sortir le réfrigérateur de son enceinte en suivant les instructions du manuel du propriétaire.
- 5 Déposer au besoin la partie inférieure et le couvercle du logement du brûleur du système existant.
- 6 Déposer le brûleur, le thermocouple (s'il existe) et/ou l'électrode à étincelles de leur support sur le système existant.
- 7 Sortir l'élément chauffant CA et CC (s'il existe) de leur logement sur le système existant.
 - Conserver les éléments chauffants.
- 8 Déposer le thermistor ou le tube capillaire des ailettes à l'intérieur du réfrigérateur.
- 9 De l'intérieur du compartiment de congélation, enlever les vis et les rondelles de fixation du système de refroidissement sur l'arrière du compartiment.
 - Le nombre de vis varie de quatre à huit suivant le modèle de réfrigérateur.
 - Conserver les vis et les rondelles pour le montage du système de réfrigération de remplacement.
- 10 Enlever les vis de fixation du système de réfrigération sur la partie arrière du réfrigérateur.
 - Les vis passent par les plaques métalliques du système de réfrigération puis dans l'armoire frigorifique.
 - Suivant le modèle de réfrigérateur :
 - Il y a une ou deux vis à la partie supérieure du système de réfrigération.

- Il y a deux vis à la partie inférieure du système de réfrigération.
 - Conserver les vis pour le montage du système de réfrigération de remplacement.
- 11 Sortir le système de réfrigération existant en appliquant une force importante mais uniforme.
 - 12 Déposer les ailettes du système de réfrigération existant.
 - Enlever les vis de fixation des ailettes sur le système de réfrigération existant.
 - Conserver les vis pour le remontage des ailettes sur le système de réfrigération de remplacement.
 - Tirer avec précaution sur les ailettes pour les séparer du système existant.
 - Conserver les ailettes pour le remontage sur le système de réfrigération de remplacement.
 - 13 À l'aide d'un couteau à mastiquer, enlever le mastic de l'arrière de la plaque de l'évaporateur du réfrigérateur ainsi que des ailettes.

Renvoi du système de réfrigération déposé

- 1 Placer le système de réfrigération déposé dans le sac plastique fourni.
- 2 Placer le sac plastique avec le système de réfrigération déposé dans l'emballage du système de réfrigération de remplacement.
- 3 Placer le formulaire de demande de règlement rempli dans l'emballage.
- 4 Si le système de réfrigération a été livré par FedEx Air, coller les étiquettes «Hazard Material» de chaque côté de l'emballage.
- 5 Si le système de réfrigération a été livrée par voie de surface ou voie aérienne, placer l'étiquette avec l'adresse de retour FedEx à l'extérieur de l'emballage.
- 6 Appeler FedEx Ground au 1-888-777-6040 pour le ramassage. FedEx ramassera le colis le jour ouvrable suivant

Préparation du système de réfrigération de remplacement

- 1 Appliquer du mastic sur le système de réfrigération de remplacement (Voir Art01121)
 - Couper la pointe du tube de mastic identifié T.
 - Localiser les tubes d'évaporation [1] à l'avant du bloc de mousse [2] du système de réfrigération de remplacement.
 - Appliquer un boudin de mastic d'un demi pouce [3] sur les tubes d'évaporation.
- 2 Appliquer le produit d'étanchéité permagum sur le système de réfrigération de remplacement.

REMARQUE : Le produit d'étanchéité permagum évite l'infiltration de l'air à l'intérieur du réfrigérateur. Cela diminue la formation de givre à l'intérieur du réfrigérateur, ce qui améliore la capacité de réfrigération de l'appareil.

- Couper la pointe du tube de produit d'étanchéité identifié P.
- Appliquer un boudin de produit d'étanchéité permagum d'un demi pouce [2] autour des côtés du bloc de mousse [1] du système de réfrigération de remplacement (Voir Art01123).
 - Appliquer le boudin d'un demi pouce dans la partie plate du seuil.
- Appliquer un boudin de produit d'étanchéité permagum d'un demi pouce autour de l'orifice du système de réfrigération [1] à l'arrière de l'armoire de réfrigération (Voir Art01124) :
 - Appliquer le boudin d'un demi pouce [2] dans la partie plate du seuil.

Installation du système de réfrigération de remplacement

- 1 Placer les ailettes dans l'ouverture de l'armoire de réfrigération.
- 2 Placer du ruban masque autour du bord extérieur des ailettes.
- 3 Pousser le bloc de mousse du système de réfrigération de remplacement dans l'ouverture pour le système de réfrigération à l'arrière de l'armoire de réfrigération.
- 4 Fixer les ailettes sur le système de réfrigération de remplacement :
 - Aligner les trous des ailettes avec ceux de la plaque du système de réfrigération de remplacement.
 - Installer et serrer toutes les vis au couple maximal de 50 po/lb.
- 5 À l'intérieur du compartiment de congélation, installer les nouvelles vis et les rondelles d'origine de fixation du système de réfrigération sur l'arrière du compartiment.
 - Aligner les trous à l'arrière du compartiment de congélation avec ceux du système de réfrigération de remplacement.

REMARQUE : Vous pouvez utiliser une alène, un pic à glace, etc... pour aligner les trous.

- Si une des vis est plus longue que les autres, installer cette vis la première pour plaquer le système de réfrigération contre l'arrière du compartiment de congélation.
 - Installer et serrer toutes les vis au couple maximal de 50 po/lb.
- 6 Installer les vis de fixation du système de réfrigération à l'arrière du réfrigérateur.
 - Passer les vis dans les plaques métalliques du système de réfrigération et dans l'armoire de réfrigération.
 - Suivant le modèle du réfrigérateur
 - Il peut y avoir une ou deux vis à la partie supérieure du système de réfrigération.
 - Les vis peuvent être fixées à l'arrière ou à la partie supérieure du réfrigérateur.

Il y a deux vis à la partie inférieure du système de réfrigération.

- Ne pas serrer complètement les vis à ce moment.

7 S'assurer que le condenseur du système de réfrigération de remplacement est à la position correcte (Voir Art01119).

- Au moyen d'un niveau, s'assurer que le haut du réfrigérateur est de niveau d'un bord à l'autre.
- Dans le cas contraire, utiliser des cales pour mettre le réfrigérateur de niveau.
- Tracer une ligne [1] à partir du coin supérieur gauche du condenseur [2] en travers de l'arrière de l'armoire de réfrigération.
- S'assurer que le coin supérieur droit du condenseur se trouve à la bonne distance de la ligne tracée :
 - Si le réfrigérateur a une porte, la distance [3] doit être comprise entre 5/8 po et 1 po.
 - Si le réfrigérateur a deux portes, la distance [3] doit être comprise entre ¾ po et 1 ¼ po.
- Relever ou abaisser le coin supérieur gauche du condenseur pour obtenir une distance correcte.
- S'assurer que le coin supérieur gauche du condenseur n'est pas plus haut que le haut de l'armoire de réfrigération.
- Serrer toutes les vis.

8 Fixer le thermistor sur les ailettes à l'intérieur du réfrigérateur.

9 Monter la partie inférieure et le couvercle du logement du brûleur sur le système de réfrigération de remplacement.

10 Installer l'élément chauffant CA et l'élément chauffant CC (si installé) dans leur logement sur le système de réfrigération de remplacement.

- S'assurer que chaque élément chauffant est bien en place dans son logement.

11 Pousser les deux bagues plastique dans les orifices du couvercle du logement du brûleur.

12 Installer le brûleur et l'électrode à étincelles sur leur support sur le système de réfrigération de remplacement.

13 Remettre le réfrigérateur dans son enceinte en suivant les instructions du manuel du propriétaire.

14 Brancher la conduite d'alimentation en gaz du brûleur.

15 Ouvrir le robinet du (des) réservoir(s) d'alimentation en gaz.

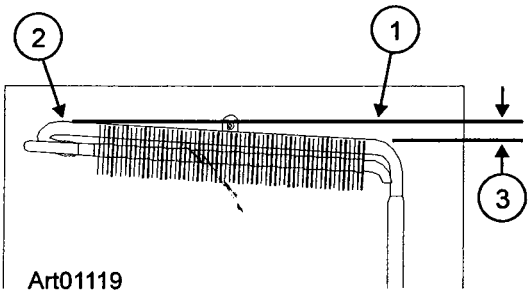
16 Vérifier la conduite d'alimentation en gaz et les raccordements et rechercher les fuites éventuelles.

Outillage de mise à niveau du réfrigérateur :

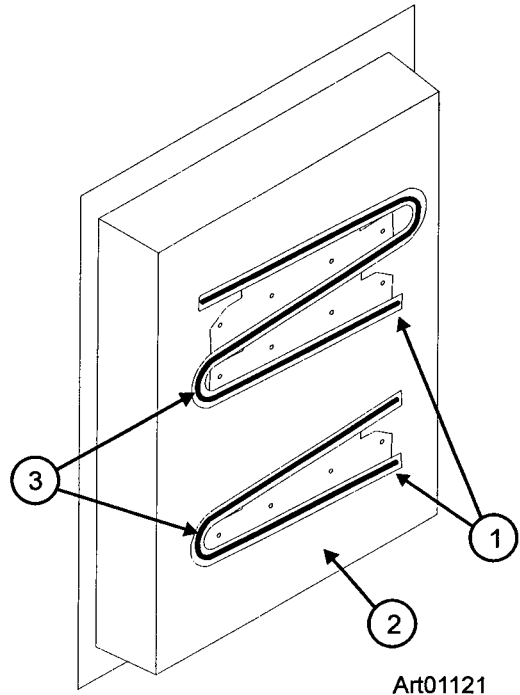
Cet outillage est très pratique pour s'assurer que le réfrigérateur est de niveau d'un côté à l'autre dans une tolérance de 3° (Voir Art01128). Préparer un morceau de bois [1] ayant exactement les dimensions indiquées. L'épaisseur n'est pas importante, mais les surfaces supérieure et inférieure doivent être plates et lisses. Utiliser un niveau précis de type torpille [2].

Placer le morceau de bois et le niveau sur une surface plane dans le réfrigérateur (clayette en verre, etc...), les extrémités en direction des côtés du réfrigérateur. La plus grande partie de la bulle [4] du niveau doit être du côté A de l'axe. Tourner le morceau de bois et le niveau de 180°. La plus grande partie de la bulle doit toujours se trouver du côté A de l'axe.

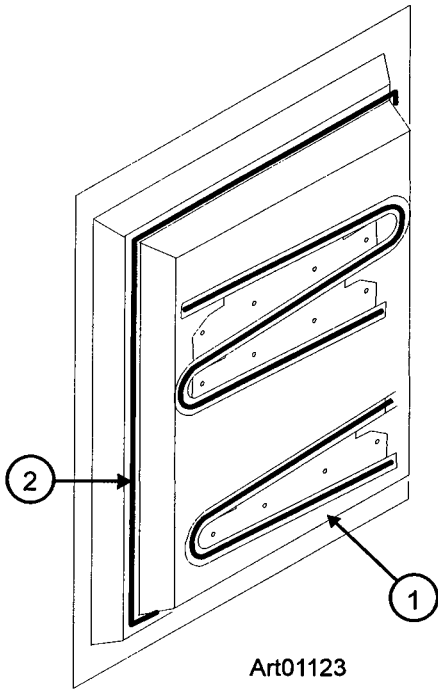
Si la plus grande partie de la bulle se trouve du côté B de l'axe, dans un sens ou dans l'autre, c'est que le réfrigérateur est hors niveau de plus de 3° d'un côté à l'autre.



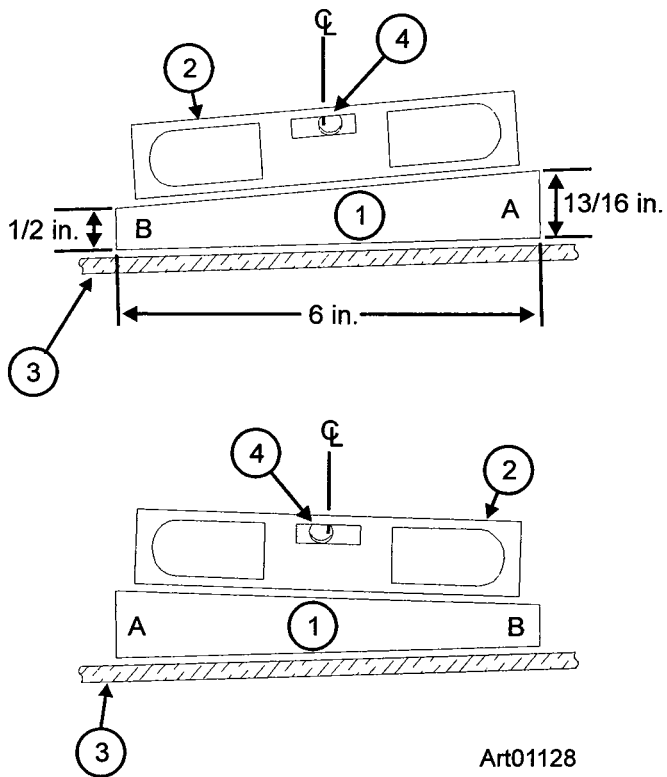
Art01119



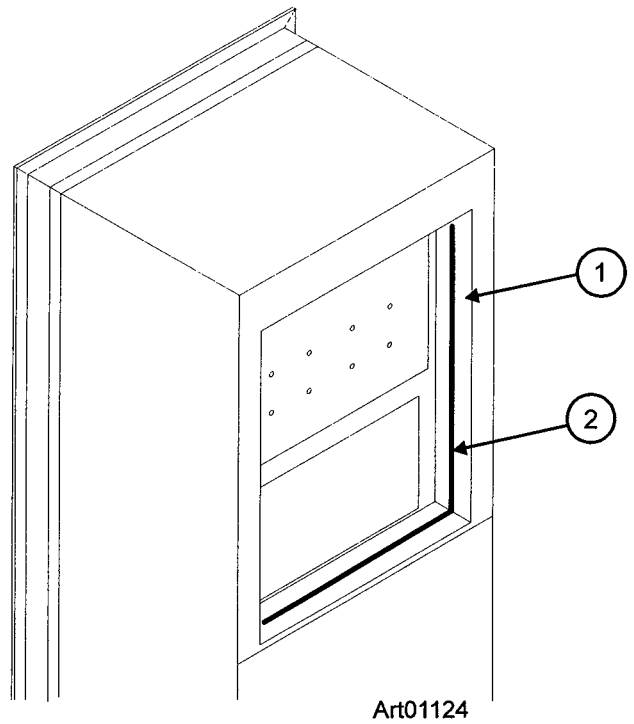
Art01121



Art01123



Art01128



Art01124