

ORIGO

MANUAL

RM 4202

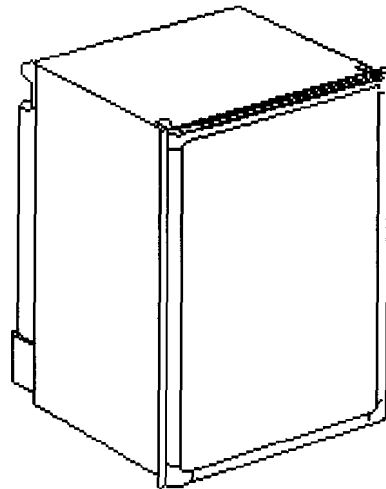
Sales Office
Intercon Marketing
1540 Northgate Blvd.
Sarasota, FL 34234
Phone: 941-355-4488

**RECORD THIS INFORMATION FOR FUTURE REFERENCE
BEFORE INSTALLING THE UNIT:**

Model No. Serial No.
Product No.
Date Purchased Place of Purchase

SERVICE OFFICE
The Dometic Corp.
509 So. Poplar St.
La Grange, IN 46761
Phone: 219 463 4858

FOR SERVICE CENTER
ASSISTANCE
CALL: 800 544 4881



WARNING

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

**IMPORTANT INSTRUCTIONS
READ CAREFULLY**

Language: English

C40 / 110
821 2688-01



T.D. 07/00

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1.0

FOREWORD

Congratulations on choosing this refrigerator product from Origo. We are convinced that it will work to your complete satisfaction.

This noiseless appliance corresponds to the highest quality standards, with guaranteed efficient use of resources and energy during its working life. Before using the refrigerator for the first time, please be sure to read the installation and instruction manual fully.

2.0

FOR YOUR SAFETY

2.1



Warning and safety advice

- Risk of child entrapment. Before you throw away your old refrigerator: Take off the doors and leave the shelves in place, so that children may not easily climb inside.
- Never open the cooling system, it is kept under high pressure.
- Never store flammable materials, such as lighter gas, petrol or ether in the refrigerator.
- The refrigerator must be installed in such a way that there is no direct contact with the cooling system in back (it becomes very warm during operation).
- The 120V energy supply must be grounded according to safety standard regulations to a fixed ground.
- Any maintenance is to be carried out by authorized service personnel only.

2.2

Coolant

Ammonia is the refrigerant.

It is the same chemical found in household cleaning materials.

- In the unlikely event of a leak (easy to recognize because of the smell), switch off the appliance, unplug it if necessary, and ventilate the room thoroughly.

3.0

INSTALLATION

3.1

Unpacking

When unpacking the refrigerator check that nothing is missing or damaged. Damage in transit must be reported immediately to the carriers.

3.2

Cleaning the refrigerator

It is advisable to clean the refrigerator with lukewarm water (add a little mild, non-abrasive detergent) before operation. Then rinse with tap water and dry well.



Do not use soap or grainy cleaning agents under any circumstances, in particular not those containing soda.

3.3

Installation of the refrigerator

The refrigerator is designed for build-in applications.

The refrigerator must not be exposed to the radiated heat from other hot objects (e.g. near by a stove without proper heat shielding).

Place the refrigerator so that the circulation of air around the absorber unit is not obstructed.

It is important **not** to obstruct the ventilation grids. The rear of the refrigerator should have at least 1" of clearance to the back wall (see FIG. 2).

3.4

Ventilation

The following drawings (A,B,C,D) show you four different built-in variants for proper ventilation of the refrigerator:

1 = Ventilation grids

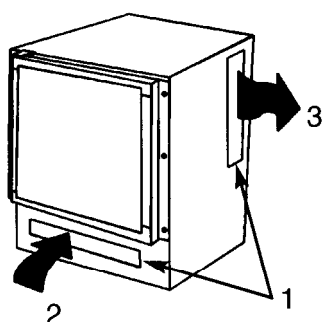
2 = Inlet air

3 = Outgoing air

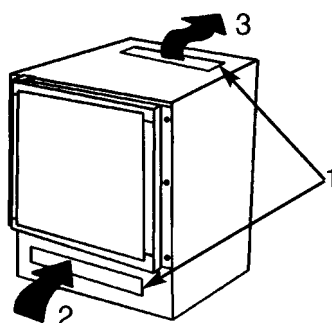


The vent openings available to the incoming and outgoing air must be at least 180cm², (28 sq in).

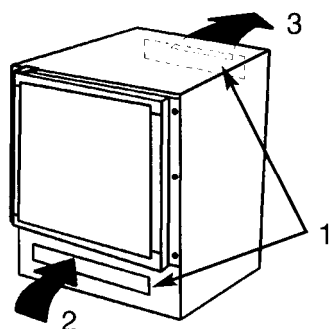
A.)



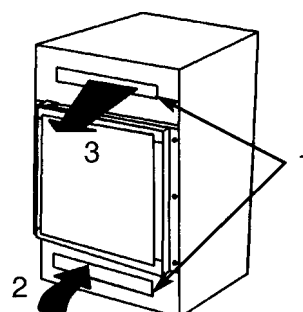
B.)



C.)



D.)



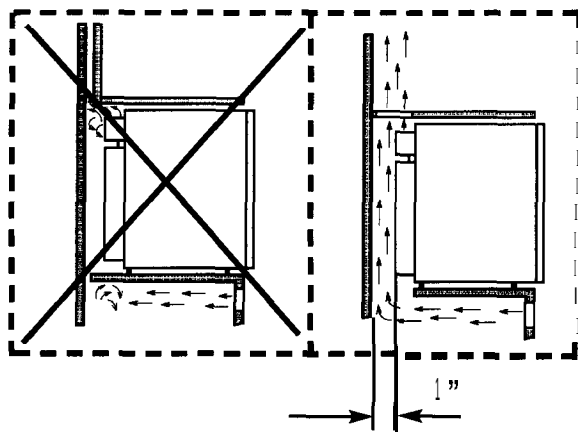


Fig. 2

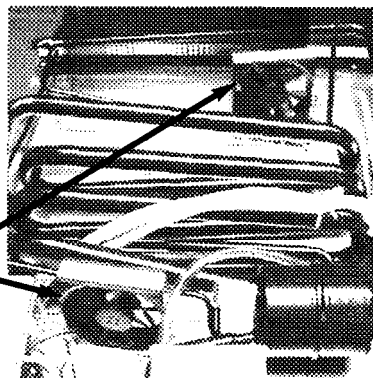
3.4.1

Forced air circulation

The refrigerator is equipped with two fans, for better air circulation.

The fans are directly connected to the microprocessor control, so that the fans switch on and off automatically.

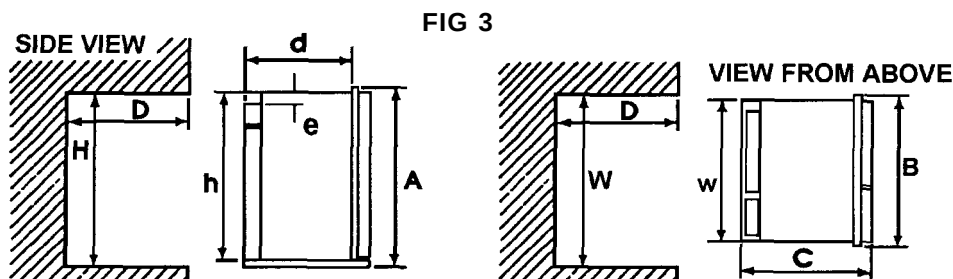
Fans



3.5

Installing refrigerator in enclosure

NOTE: DO NOT install the appliance directly on carpeting. Carpeting must be removed or protected by a metal or wood panel beneath the appliance, which extends at least the full width and depth of the appliance.



RM 4202	Overall Dimensions			Installation Dimensions			Recess Dimensions		
	Height A	Width B	Depth C	Height h	Width w	Depth d	Height H	Width W	Depth D
(inches)	22-9/16	21-5/32	18-21/32	22	19-3/8	17-4/16	22-1/4	19-5/8	18-3/32
(mm)	573	537	477	558	491	438	565	497	460

Distance between Top of condenser and Top of refrigerator "e": 1/4" (inches), 6mm.

3.6

Securing refrigerator in enclosure

The refrigerator is installed in the enclosure with six screws. The screws are in the front frame. See FIG. 4.

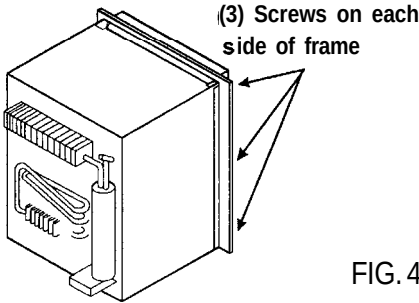


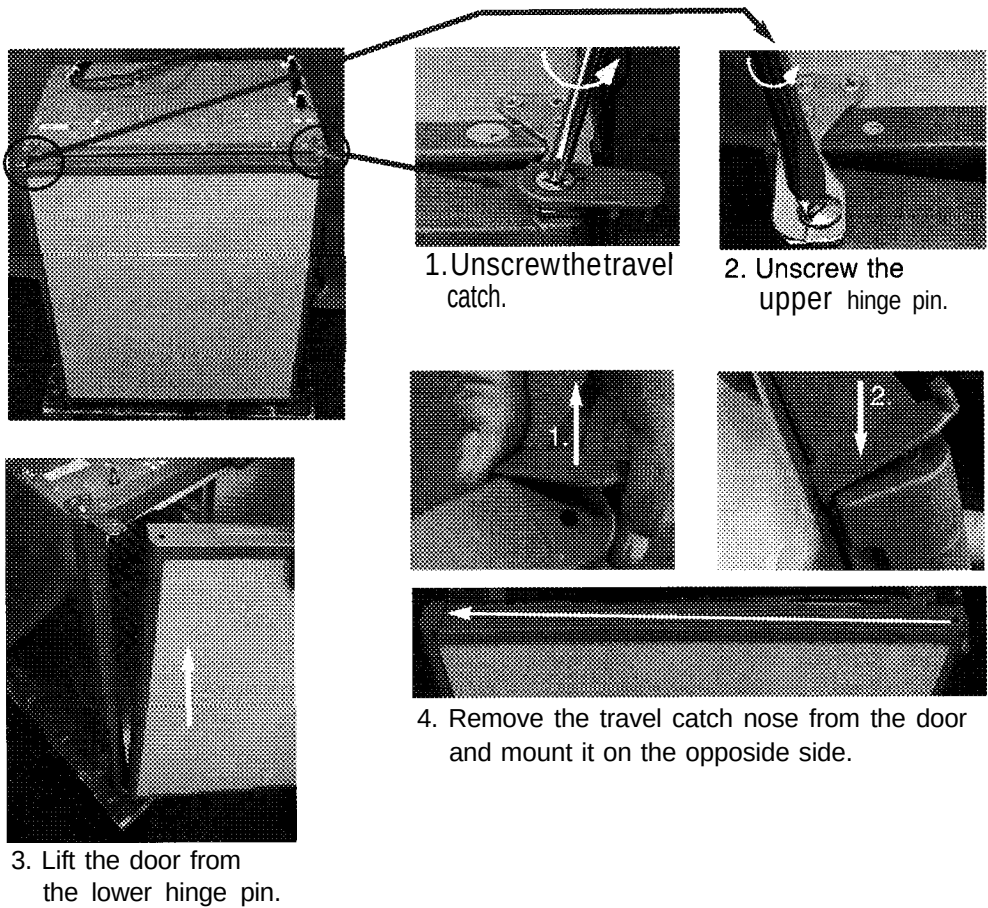
FIG. 4

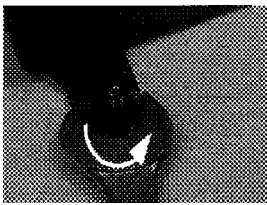
NOTE: Push refrigerator into enclosure until front frame is tight against the cabinet. Secure the frame to cabinet with six screws. Any space between the underside of countertop and the top of the refrigerator should be blocked with a material, such as foam strips. Otherwise, the heat produced at the rear of the refrigerator will become trapped in this space, making the top of the refrigerator hot and reducing the efficiency. The dimensions shown in FIG. 3 will give you adequate space for proper installation.

3.7

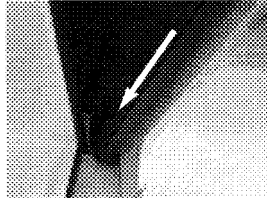
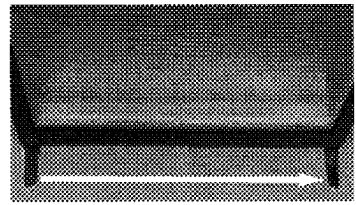
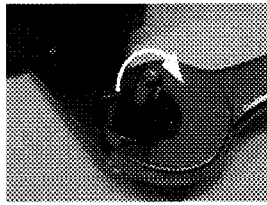
Repositioning the hinges

If required, the door opening can be reversed by moving the hinges. Reverse the door in the following way:

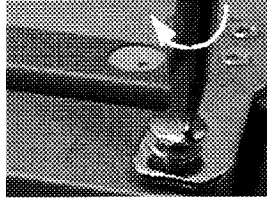




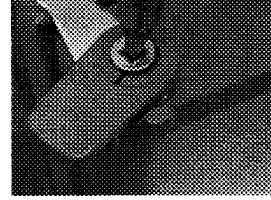
5. Unscrew the lower hinge pin and mount it on the opposite side hinge.



6. Fit the door on the pin.



7. Screw the upper hinge pin.



8. Screw the travel catch.



9. Check that the door closes properly and seals all around.

3.8

Installation of decorative door panel

A door panel is provided. However an alternative custom door panel can easily be mounted. The dimensions of the panel must be:

Height	20-l 5/16"
Width	17-27/32"
Thickness	Up to 1/8"

- Remove the door. See Section 3.7.
- Remove the lower trim molding. (NOTE: Trim molding is not installed on new units in cartons)
- Fit the new panel in place and slide it up as far as possible.
- Fit the trim molding back in place.

3.9

ELECTRICAL INSTALLATION

Automatic energy selection between AC/DC

The priority of energy sources is AC (when available)!

3.9.1

120 V connection

Check that the voltage stated on the data plate is the same as the voltage in use (120V).

The 120V electricity supply must be connected on a properly grounded fixed connection.



Electrical leads must be routed and secured so that they cannot come into contact with hot or sharp parts of the refrigerator.

3.9.2

12 V connection

The 12V, red (+) and white (-) wires must be connected directly to the battery.

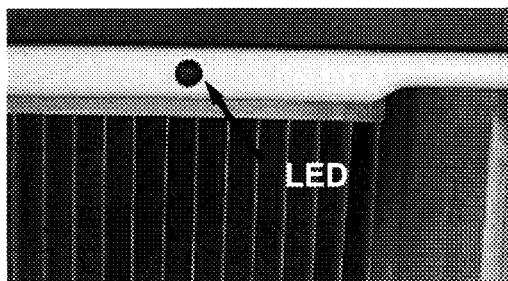
Do not use the chassis for the return lead. The battery cable must not be connected to a voltage controller. A relay cutting out 12V operation when the ignition key is turned off, is not recommended.

To avoid a voltage drop, the cross sectional area of connecting cable between battery and refrigerator must be at least 6mm² (10 quage).

To ensure satisfactory operation, the positive lead must be fitted with a fuse rated at max. 16A.

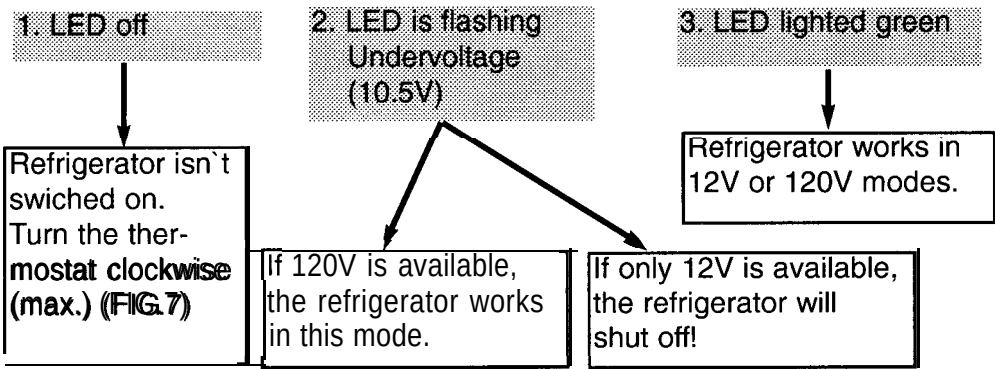
- A ! A non interruptable 12V connection is required for the microp-processor control board. This refrigerator will not work on 120V only. The refrigerator will select the 12V mode of operation automatically , if there is no 120V available.**

Untervoltage battery control:



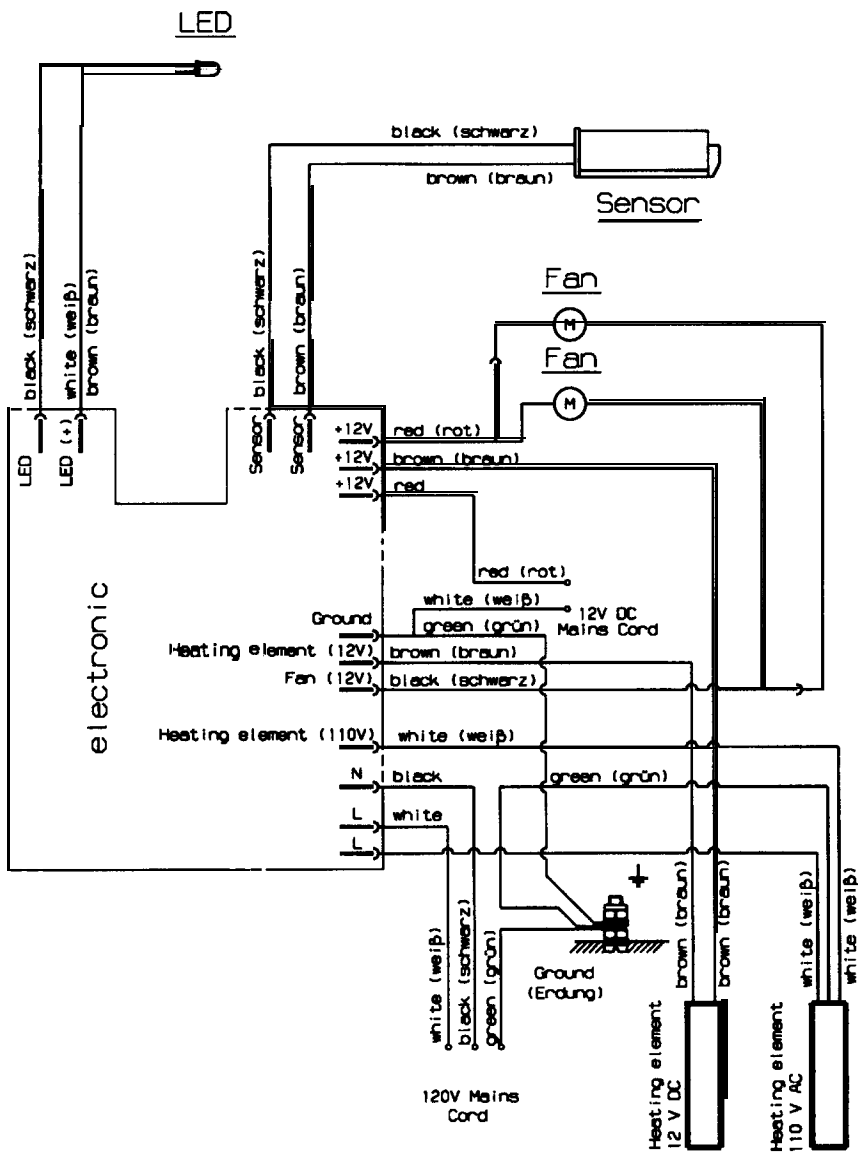
If the refrigerator operates in 120V or 12V mode, and the voltage at the battery drops to 10.5V the LED in the interior of the refrigerator will be flashing green.

LED Function:



3.9.3

Wiring diagram



4.0

4.1

OPERATING INSTRUCTIONS

Starting the refrigerator

Check that the voltage stated on the data plate is the same as the voltage available and in use.

- Turn the thermostat knob (located inside the rear of the cabinet) to its highest ("max") position (FIG.7).

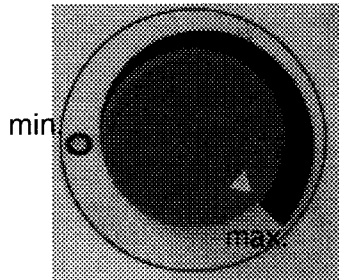
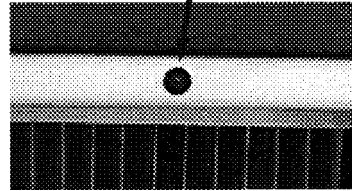


FIG.7

If the refrigerator is in operation, the LED in the interior of the refrigerator is lighted green.



4.2

Regulating the temperature

The thermostat controls both the refrigerator and freezer temperature.

It will take a few hours for the refrigerator to reach normal operating temperature, so we suggest you start it well in advance of a trip and, if possible, store it with precooled food items.

On 120V and 12V operation the refrigerator is controlled by an electronic temperature control unit.

After initial cooling, the thermostat should next be set to a medium position (FIG. 7) and then adjusted to maintain the desired cooling environment. Turning the thermostat knob to the right causes a colder temperature in the cooling compartment. By turning the knob to the left, the temperature will get warmer. **On Position ("0") to extreme counterclockwise the refrigerator is switched off.**

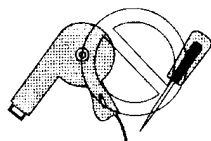
4.3

Defrosting

Frost will gradually accumulate on the refrigerating surfaces. It must not be allowed to grow too thick as it acts as an insulator and adversely affects refrigerator performance.

Check the formation of frost weekly and when it gets about 1/8" (3mm) thick, defrost the refrigerator.

To defrost the 'fridge, turn it off and remove the ice tray and all food items. **Warning:** normally the temperature of frozen foods items would rise unduly during defrosting so they should be consumed within 24 hr or discarded.



Do not try to accelerate defrosting by using any kind of heating appliance, as this might damage the plastic surfaces of the refrigerator. Neither should any sharp objects be used to scrape off the ice.

The defrost water runs from a collector channel to a receptacle at the rear of the refrigerator where it evaporates. Defrost water in the freezer compartment should be mopped up with a cloth.

When the ice has melted, wipe the refrigerator dry and restart it. Place the food items back inside but wait until the refrigerator is cold before making ice cubes.

4.4

Food Storage

Always keep food in closed containers. Never put hot food in the refrigerator; allow it to cool first.

The 2-star (**) frozen food compartment is intended for the storage of frozen food and for making ice. It is not suitable for freezing warm food.

Never put bottles or cans of carbonated drinks in the frozen food storage compartment as they may burst when freezing.

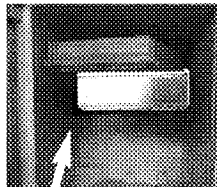
Most kinds of frozen food can be stored in the frozen food compartment for about a month. This period of time may vary, however, and it is important to follow the instructions on the individual packages.

4.5

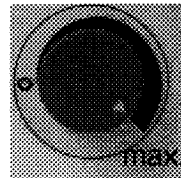
Ice making



1.



2.



3.

4.6

Cleaning the refrigerator

Clean the inside of the refrigerator regularly to keep it fresh and hygienic.

Soak a cloth in a solution consisting of a teaspoon of bicarbonate of soda to half a quart of warm water. Wring out the cloth and use it to clean the interior of the refrigerator and its fittings.

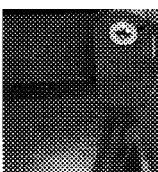
Never use detergents, scouring powder, strongly scented products or wax polish to clean the interior of the refrigerator as they may damage the surfaces and leave a strong odor.

The exterior of the refrigerator should be wiped clean now and again, using a damp cloth and a small quantity of detergent. But not the door gasket, which should only be cleaned with soap and water and then thoroughly dried.

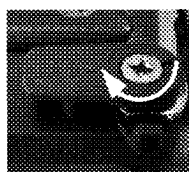
4.7

Travel catch

When you are travelling, make sure that the travel catch is engaged.



Closed



Open

4.8

Turning off the refrigerator

If the refrigerator is not to be used for some time:

1. Set the Thermostat to "0".
2. Empty the refrigerator. Defrost and clean it as described earlier.
3. Leave the door of the frozen food compartment ajar.
4. Arrest the door of the refrigerator with the travel catch.



Troubleshooting

If the refrigerator fails to work, check the following points before calling a service technician.

A: Instructions for starting the refrigerator, have been followed.

B: Is it possible to start the refrigerator on any of the connected sources of energy?

NOTE: The following checks should be performed only by a qualified technician.

C: A non- interruptable 12V connection is required to energize the control board.

D: If the refrigerator fails to work on DC, check:

1. That the DC supply wires are tightly and properly attached to the rear connector.
2. That the fuse on DC supply is intact.
3. That the thermostat is not set to the "0" position.
4. The control board is not defective.

E: If the refrigerator fails to work on AC, check:

1. That the AC supply is properly connected to the refrigerator.
2. That the fuse on the AC supply is intact.
3. That the thermostat is not set to the "0" position.
4. The control board is not defective.

F: If the refrigerator is not cold enough it may be because:

1. The ventilation is inadequate, vents are blocked, undersized or not properly positioned (see section 3.4).
2. The evaporator is frosted up.
3. The temperature control setting is incorrect.
4. The ambient temperature is too high.
5. Too much warm food is loaded at one time.
6. The door is not properly closed or the magnetic sealing strip is defective.
7. The cooling fans do not work.

LIMITED WARRANTY

**THE SELLER NAMED BELOW MAKES THE FOLLOWING WARRANTY
WITH RESPECT TO THIS APPLIANCE OR PRODUCT:**

1. This warranty is made only to the first retail purchaser (hereinafter called the "Original Purchaser") who obtains this product for personal use. It is made with the approval and cooperation of the manufacturer.
2. This warranty will be in effect for one year from the date of purchase by the Original Purchaser. It is suggested that the Original Purchaser retain proof of direct purchase or a copy of the vehicle bill of sale as evidence of purchase.
3. This warranty covers only specified parts which shall be free from defect in material and workmanship under normal use. This warranty does not apply to any appearance item nor to any product damaged or defaced, nor to any product subject to misuse, abnormal service, improper installation or handling, operation contrary to or not in accordance with the specific operating instructions, nor to any items used in conjunction with or attached to this appliance.
4. This Warranty entitles the Original Purchaser to have the defective product repaired or replaced, at seller's discretion, at no cost with respect to parts and labor.
5. In order to obtain the benefits of this Warranty, the seller named below should be notified as soon as a defect is observed while this Warranty is in effect. The Original Purchaser will be given coded authorization to either return the product to the service agent listed below OR to a nearby service center of that agent. All charges incurred in shipment of the appliance between the Original Purchaser and the service agent or its authorized service center shall be the responsibility of the Original Purchaser.

THIS SHALL BE THE EXCLUSIVE WRITTEN WARRANTY OF THE ORIGINAL PURCHASER AND NEITHER THIS WARRANTY NOR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, SHALL EXTEND BEYOND THE PERIOD OF TIME INDICATED ABOVE. IN NO EVENT SHALL THE MANUFACTURER, THE SELLER, THE SERVICE AGENT, THEIR ASSOCIATES, DEALERS, DISTRIBUTORS, OR AFFILIATES BE LIABLE FOR CONSEQUENTIAL ECONOMIC DAMAGE OR CONSEQUENTIAL DAMAGE OF PROPERTY. SOME STATES DO NOT ALLOW THE ABOVE LIMITATION, THEREFORE THE EXCLUSION MAY NOT APPLY TO YOU. IN ADDITION, THIS WARRANTY GIVES SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

SELLER

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