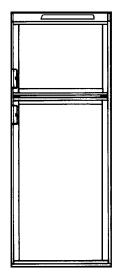
## **Dometic**®

RECORD	THIS	INFORM	MATION	FOR	<b>FUTURE</b>	REFERENCE
BEFORE	INST/	ALLING	THE U	NIT:		

Model No	Serial No
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ate	Purchased	Place of Purchase	
alc	1 di di dadda		



## AMERICANA Model RM2652 & RM2852

## REFRIGERATOR FOR LP/GAS AND ELECTRIC OPERATION

SERVICE OFFICE The Dometic Corp. 509 So. Poplar St. LaGrange, IN 46761 219-463-4858

#### **CANADA**

**USA** 

Dometic Dist. 866 Langs Dr. Cambridge, Ontario CANADA N3H 2N7 519-653-4390

For Service Center Assistance Call: 800-544-4881





## FOR YOUR SAFETY

If you smell gas:

- 1. Shut off gas supply at the main LP gas tank valve.
- 2. Open windows.
- 3. Don't touch electrical switches.
- 4. Extinguish any open flame.
- 5. Immediately call your gas supplier or service agency.

### FOR YOUR SAFETY

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

## ! 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, service agency or the gas supplier.

## ! AVIS

Cet appareil doit être réparé seulement par un réparateur autorisé. Modification de l'appareil pourrait être extrèmement dangeruse, et pourrait causer mal ou mort.

# INSTALLATION & OPERATING INSTRUCTIONS

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## REFRIGERATOR MODEL RM2652 RM2852

IMPORTANT INSTRUCTIONS READ CAREFULLY

FormNo.3106406.006 6/95 TheDometicCorp. LaGrange,IN46761 Copyright1995TheDometicCorporation

## 1. GENERAL INSTRUCTIONS

This appliance is designed for storage of foods and storage of frozen foods and making ice.

The refrigerators outlined herein have been design certified by A.G.A. under ANSI Z21 .19 Refrigerator Standard for installation in a mobile home or recreational vehicle and are approved by the Canadian Gas Association.

The certifications are, however, contingent on the installation being made in accordance with the following instructions as applicable.

### In the U.S.A., the installation must conform with:

- 1. National Fuel Gas Code ANSI Z223.1-(latest edition)
- 2. Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280
- 3. Recreational Vehicles ANSI AI 19.2-(latest edition).

The unit must be electrically grounded in accordance with the National Electric Code ANSI/NFPA 70-(latest edition) when installed if an external alternating current electrical source is utilized.

4. Any applicable local code.

#### In Canada, the installation must conform with:

- 1. Current CGA B 149 Gas Installation Codes
- Current CSA Standard Z 240.4 GAS-EQUIPPED REC-REATIONAL VEHICLES AND MOBILE HOUSING
- 3. Any applicable local code

The unit must be electrically grounded in accordance with the CANADIAN ELECTRICAL CODE C 22 Parts 1 and 2.

### 2. VENTILATION

The installation shall be made in such a manner as to separatethecombustion system from the living space of the mobile home or recreational vehicle. Louveropeningsforair supply or for venting of combustion products shall have a minimum dimension of not less than 1/4 inch.

Proper installation requires one fresh air intake and one upper exhaust vent. The ventilation kits shown in this instruction manual have been certified for use with the refrigerator model listed in the Table. For "Certified Vent System Kits" see Section B. The ventilation kits must be installed and used without modification. An opening toward theoutsideatfloor level in the refrigeratorcompartment must be provided forventilation of heavier-than-air fuel gases. The lower vent of the recommended kits is provided with proper size openings. The flow of combustion and ventilation air must not be obstructed.

The lower side vent is fitted with a panel which provides an adequate access opening for ready serviceability of the burner and control manifold of the refrigerator. This should be centered on the back of the refrigerator.

### 3. CERTIFIED INSTALLATION

Certified installations require one roof vent and one lower side vent.

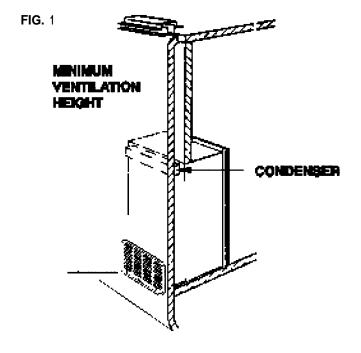
For certified vent system kits, see Section B.

For further information, contact your dealer or distributor.

### 4. METHOD OF INSTALLATION

The method of installation is shown in FIG. 1. It is essential that all maximum or minimum dimensions are strictly maintained as the performance of the refrigerator is dependent on adequate flow of air over the rear of the refrigerator.

NOTE: The upper vent should be centered over the condenser coil at the back of the refrigerator.

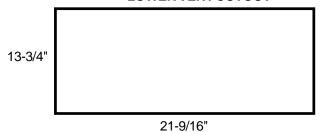


## **5. VENTILATION HEIGHTS**

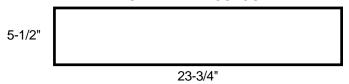
Refer to FIG 1., Page 2

Installation with roof vent and lower side vent	Minimum Ventilation heights in:		
REFRIGERATOR	INCHES	ММ	
RM2652	57-3/4	1465	
RM2852	63-3/4	1620	

### **LOWER VENT CUTOUT**



**UPPER VENT CUTOUT** 



NOTE: All cutout dimensions are +/- 1/8".

## 6. CLEARANCES

Minimum clearances in inches to combustible materials are:

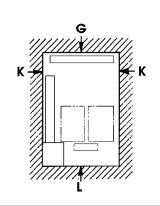
G: Top 0"
K: Side 0"
L: Bottom 0"
M: Rear 0"

N: See NOTE

**NOTE**: Clearance "M" is between the rearmost part of the refrigerator and the wall behind the refrigerator.

**NOTE**: Clearance "N" is the distance between the bottom of the lower vent to the roof material. For ventilation height, refer to Section A. Installation, Item 5. Ventilation Heights. See FIGS. 1 & 2.

FIG. 2



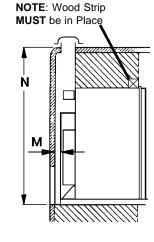
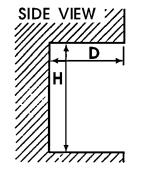
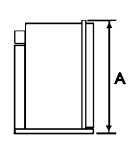
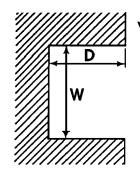
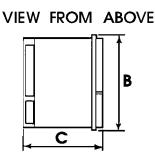


FIG. 3









Refrigerator Model		Overall Dimensions		Recess Dimensions			Total Ref. Vol.
	Height A	Width B	Depth C	Height H	Width W	Depth D	Cu. Ft.
RM2652 (Inches	54-9/16	24-11/16	24-7/8	53-3/4	23-11/16	24	6.0
(mm	) 1386	627	632	1365	601	608	
RM2852 (Inche	60-5/8	24-11/16	24-7/8	59-15/16	23-11/16	24	7.3
(mn	1530	627	632	1522	602	610	

## 7. 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.

Any space between the counter, storage area or ceiling can trap heat produced at the rear of the refrigerator. Any space between the top and sides of the refrigerator should be blocked for maximum refrigerator performance.

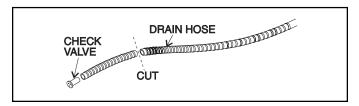
CONDENSATE WATER DRAIN HOSE: A 3/4" hole must be drilled through the flooring in the opening of the base plate on the rear of refrigerator (see FIG. 5D). The installer must make sure that the hose does not kink when run through the floor. Seal around the hose where it goes through the hole. If a longer hose is required, follow the illustration shown below:

#### **OPTION A:**

- 1) Remove black water check valve from hose.
- 2) Add additional hose
- 3) Reinstall black water check valve

#### **OPTION B:**

- 1) Cut drain hose at location shown below.
- 2) Install new drain hose between pieces cut.



**NOTE:** Black water check valve must be reinstalled to ensure proper refrigerator operation. **DO NOT KINK HOSE**.

#### **OPTION C:**

In vehicles where routing the drain hose through the floor is not possible, a metal clip is available. The clip is used to drain water out through the side vent.

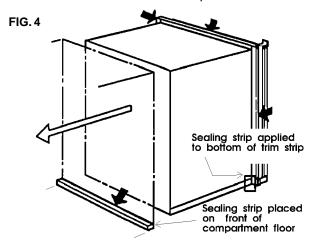
Part No. 3106590.007 Clip for plastic side vent (Qty. 50) Part No. 3106590.015 Clip for plastic side vent (Single) Part No. 3106559.002 Clip for metal side vent (Qty. 50) Part No. 3106559.010 Clip for metal side vent (Single)

**INSTALLATION**: The refrigerator must be installed in a substantial enclosure and must be level. When installing the refrigerator in the enclosure, all areas within the recess in which the refrigerator is installed must be sealed. Make sure that there is a complete seal between the front frame of the refrigerator and the top, sides and bottom of the enclosure. A length of sealing strip is applied to the rear surface of the front frame for this purpose. Also apply a sealing strip to the foremost floor of the enclosure and apply a second sealing strip to the bottom of the trim strip on the front base as shown in FIG. 4. The sealing should provide complete isolation of the appliance's combustion system from the vehicle interior.

A wood strip must be in place across the upper opening of the enclosure. The top frame of the refrigerator will be anchored to the wood strip with screws. See FIG. 2.

The dimensions shown in FIG. 3 will give you adequate space for service and proper installation.

**NOTE**: If the door is hinged and it needs be changed to the opposite side, it must be done before the refrigerator is installed in the enclosure. See Step. 13.

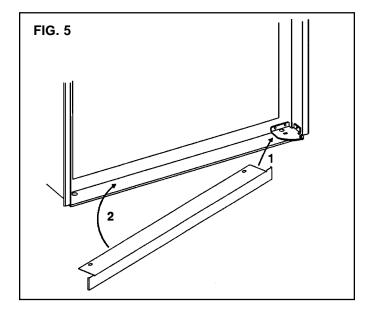


**NOTE**: Be careful not to damage the sealing strip applied to the floor of the enclosure when the refrigerator is put in place.

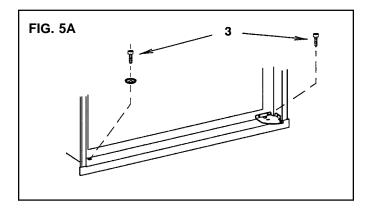
The refrigerator is secured in the enclosure with six screws. They must be installed in the following order:

## a. First: Two screws are installed in front decoration strip and through the front base.

- The front strip is to be installed after the refrigerator is set into the alcove. The strip is shipped as a loose part.
- 2) Install the lower front strip by sliding it under the bottom hinge plate as shown in FIG. 5. The hinge plate can be on the right or left side depending on the door swing.

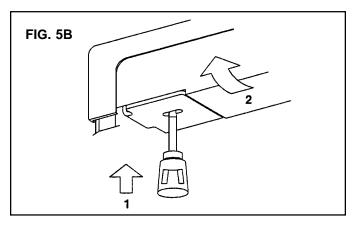


 When the front strip is in place, install one screw through the hinge and into the floor. The second screw is installed with a washer on the opposite side. (See FIG. 5A)

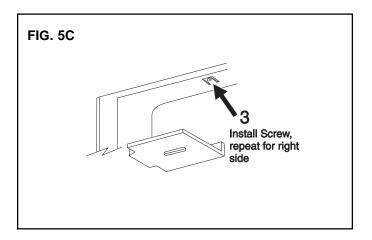


## b. Second: Install the two screws in the top frame.

- The top decoration panel must be removed from the refrigerator before the screws can be installed. Open refrigerator door and gently push the tabs out of the hole in the hinge with flat blade screwdriver. See FIG. 5B.
- 2) Carefully tilt the top decoration panel and lift up to remove from top frame. See FIG. 5B.

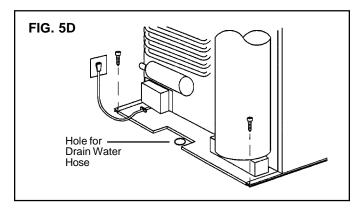


3) Install the second two screws in the top frame as shown in FIG. 5C.



4) Replace the top decoration panel. Be careful not to pinch the wires. Make sure the tabs snap back into the holes in the hinge plate.

## C. Third: Two screws installed as shown in rear base. See FIG. 5D.



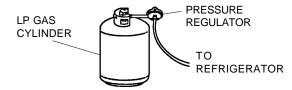
Failure to follow the sequence in securing the refrigerator in the enclosure can cause leakage between the frame and cabinet.

### 8. GAS CONNECTION

Hook up to the gas supply line is accomplished at the manual gas shutoff valve, which is furnished with a 3/8" SAE (UNF 5/8"-18) male flare connection. All completed connections should be checked for leaks with a noncorrosive leak detector. (See FIG. 6 – Gas tubing may have a different orientation than shown).



The gas supply system must incorporate a pressure regulator to maintain a supply pressure of not more than 13-1/2 inches water column (static) no load.



When testing the gas supply system at test pressures in excess of 1/2 psig, the refrigerator and its individual shutoff valve must be disconnected from the gas supply piping system.

When testing the gas supply system at pressures less than or equal to 1/2 psig, the appliance must be isolated from the gas supply piping by closing its individual manual shutoff valve.

In case detailed instructions on the installation and connection to the gas supply are required, contact your dealer or distributor.

## 9. TESTING LP GAS SAFETY SHUTOFF

The gas safety shutoff must be tested after the refrigerator is connected to LP gas supply.

### To test the gas safety shutoff, proceed as follows:

- A. Start the refrigerator according to the instructions, and switch to gas mode. See "Section C. Operation Instructions."
- B. Check that the gas flame is lit.
- C. Close the manual shutoff valve at the back of the refrigerator. (See FIG. 6)
- D. Wait for one minute. The check indicator lamp (B) should now be lit and the gas mode indicator lamp should be off.
- E. Remove cover (see FIG. 6) and open the manual gas valve. Apply a noncorrosive commercial bubble solution to burner jet (see FIG. 6).



- F. No bubbles should appear at the opening of the burner jet. The presence of bubbles indicates a defective gas safety shutoff, and service is required.
- G. If no bubbles were present at the burner jet, the gas safety valve is working properly. Rinse jet thoroughly with fresh water before proceeding. Be careful not to damage burner jet. Replace cover and turn the main

switch OFF and back ON. (See "Section C. Operation Instructions, Item 2. Control Panel"). Normal operation of the burner should return. Allow the burner to operate for a minimum of 5 minutes.

## 10. 120 VOLT AC ELECTRICAL CONNECTION

The refrigerator is equipped with a three-prong (grounded) plug for protection against shock hazards, and should be plugged directly into a properly grounded three-prong receptacle. DO NOT cut or remove the grounding prong from this plug. The power cord should be routed to avoid direct contact with the burner cover, flue cover or manual gas shutoff valve knob. The free length of the cord is two feet and therefore recommended that the receptacle be located to the left side of the refrigerator (viewed from the rear) and approximately six inches from the floor (see FIG. 7). This allows easy access through the vent door.

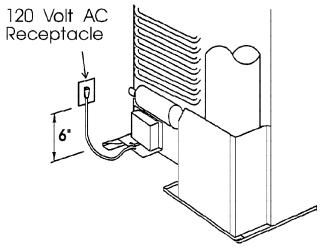
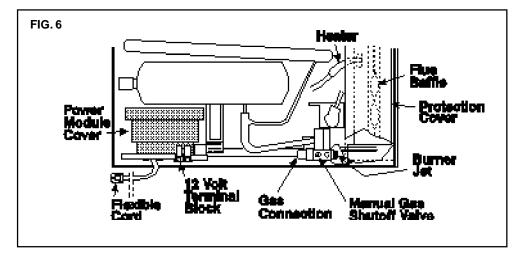


FIG.7



## 11. 12 VOLT DC CONNECTION

This refrigerator model is not designed for 12 volt DC operation of the cooling system; however, 12 volt DC must be supplied to the refrigerator to operate the controls. Use a **minimum of a 14 gauge wire** between the battery and refrigerator to supply the control voltage. The connection is made to the positive (+) and negative (-) terminals of the terminal block on back of refrigerator. (See FIG. 6) The 12 volt DC supply circuit must be fused, and the **maximum fuse size is 5 amps**.

**DO NOT** use the chassis or vehicle frame as one of the conductors. Connect two wires at the refrigerator and route to the DC supply.

Clean Direct Current (DC) power is mandatory for hightech circuits to operate as designed. The sources for DC power are a battery and a converter.

A battery will provide straight line DC power, but extended operation will require recharging of the battery by the converter or the alternator.

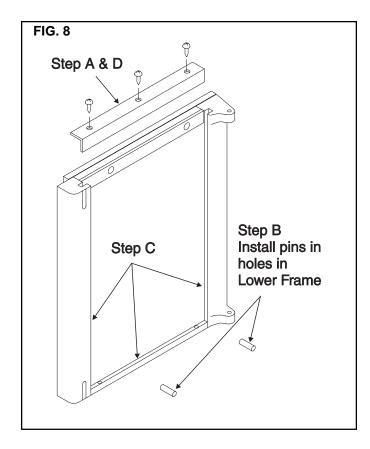
The converter and alternator produces DC power by a series of diodes that rectify alternating current to DC. A battery or capacitors can be used to clean up the AC ripple that is present after AC voltage has been rectified.

## 12.INSTRUCTION FOR INSTALLING DOOR PANEL

The refrigerator is normally delivered without the door panels. Before starting the mounting work, check that the panel dimensions are in compliance with those given in the Table on this page and the instructions are read thoroughly. When mounting the panel, proceed as follows. (See FIG. 8)

- A. Remove the trim strip from the door by taking out the 3 screws. See FIG. 8.
- B. Locate the 2 pins in the end frame of the door. If they are in the top frame, relocate the pins into the holes in the bottom door frame to support the panel. See FIG. 8.
- C. Slide panel into grooves on vertical edges of the door until it slips into the groove on the opposite end of door.
- D. Replace trim strip and screws.

## 13. CHANGING DOOR SWING TO OPPOSITE SIDE



	PANEL DIMENSIONS MAX. THICKNESS 5/32" (4 mm)						
Refr. Models		н	EIGHT	WIDTH			
TYPE		MAX.	MIN.	MAX.	MIN.		
RM2652	2						
upper	mm	403	401	527	524		
	inch	15-7/8	15-3/4	20-3/4	20-5/8		
lower	mm	827	825	527	524		
	inch	32-11/16	32-5/8	20-3/4	20-5/8		
RM2852	2						
upper	mm	403	401	527	524		
	inch	15-7/8	15-3/4	20-3/4	20-5/8		
lower	mm	983	981	527	524		
	inch	38-11/16	38-5/8	20-3/4	20-5/8		

The refrigerator is equipped with convertible doors. To change the door swing, consult the parts manual for the Conversion Kit Part Number. For further information, please contact the Dometic Corporation listed on the front page.

## SECTION B. CERTIFIED VENT SYSTEM KITS

REFRIGERATOR MODEL	KIT NO.	COMPONENTS	PART NO.
RM2652 RM2852	OPTION #1	ROOF BASE ROOF COVER LOWER SIDE VENT	3103633.XXX * 3103634.XXX * 3102277.XXX *
	OPTION #3-A POWER VENTILATOR (Island/through floor)	POWER VENT ASM. ROOF BASE ROOF COVER	3104131.002 ** 3103633.XXX * 3103634.XXX *

<sup>\*</sup> Fill in "XXX" with color code numbers. For color codes, contact your supplier.

## SECTION C. OPERATING INSTRUCTIONS

## ! WARNING

Most LP gas appliances used in recreational vehicles are vented to the outside of the vehicle. When parked close to a gasoline pump, it is possible that the gasoline fumes could enter this type of appliance and ignite from the burner flame, CAUSING A FIRE OR AN EXPLOSION.

FOR YOUR SAFETY, when refueling, shut off all LP gas appliances which are vented to the outside.

### 1. IMPORTANCE OF LEVELING A REFRIGERATOR

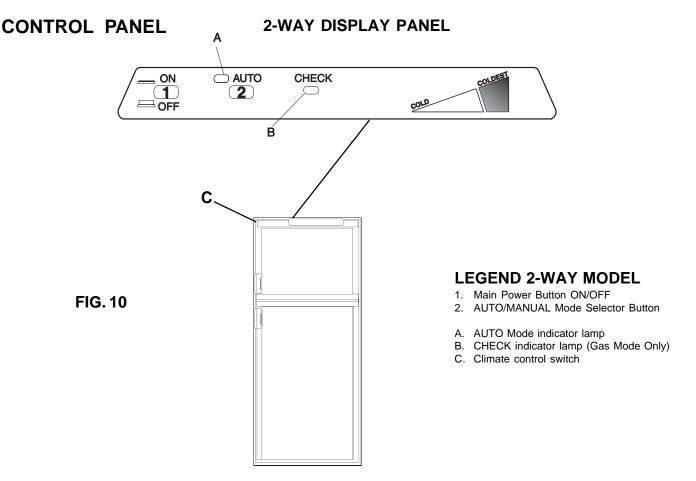
In an absorption refrigerator system, ammonia is liquefied in the finned condenser coil at the top of the refrigerator. The liquid ammonia then flows into the evaporator (inside the freezer section) and is exposed to a circulating flow of hydrogen gas, which causes the ammonia to evaporate, creating a cold condition in the freezer.

The tubing in the evaporator section is specifically sloped to provide a continuous movement of liquid ammonia downward by gravity through this section. If the refrigerator is operated when it is not level and the vehicle is not moving, liquid ammonia will accumulate in sections of the evaporator tubing. This will slow the circulation of hydrogen and ammonia gas, or in severe cases, completely block it, resulting in a loss of cooling.

Any time the vehicle is parked for several hours with the refrigerator operating, the vehicle should be leveled to prevent this loss of cooling. The vehicle needs to be leveled only so it is <u>comfortable to live in</u> (no noticeable sloping of floors or walls).

When the vehicle is moving, the leveling is not critical as the rolling and pitching motion of the vehicle will pass to either side of level, keeping the liquid ammonia from accumulating in the evaporator tubing.

<sup>\*\*</sup> Alternate instructions forwarded with the Ventilator Kit.



### 3. START-UP INSTRUCTIONS

2.

Before starting the refrigerator, check that all the manual gas valves are in the ON position. DO NOT forget the manual shutoff valve on the rear of the refrigerator. See FIG. 6. This refrigerator is equipped with a control system, which can automatically select the most suitable energy source which is available, either 120 Volt AC or LP gas operation. The refrigerator can be operated in either the AUTO mode (thermostat factory preset below the safe food storage temperature) or MANUAL mode (continuous operation - no thermostat control).

**NOTE**: Under certain cool weather conditions, the food in the lower portion of the fresh food compartment may freeze if operated for an extended period of time on the MANUAL mode.

- A. A 12 volt DC supply must be available for the electronic control to function. The refrigerator will work down to 9.6 volt DC.
  - B. Press the main power ON/OFF button (1) to the DOWN position.
- B. In AUTO mode operation, the temperature is controlled by a single temperature setting, on the energy source selected by the control system. (See Auto Mode)
- C. In MANUAL mode operation, the refrigerator will run continuously on the energy source selected by the control system. (See Manual Mode)

**NOTE**: The food in the lower compartment may be frozen if the refrigerator is left on MANUAL mode.

#### D. TO SHUT OFF THE REFRIGERATOR

The refrigerator may be shut off while in any mode of operation by pressing the main power ON/OFF button to the UP (OFF) position. This shuts off all DC power to the refrigerator, including the interior light.

## 4. DESCRIPTION OF OPERATING MODES

### A. AUTO MODE

Press the AUTO/MANUAL mode selector button (2) to the DOWN position. The AUTO mode indicator lamp (A) will illuminate.

When operating in the AUTO mode, the AUTO mode indicator lamp (A) will illuminate. The control system will automatically select between AC and GAS operation with AC having priority over GAS. If the control system is operating on AC energy and it then becomes unavailable, the system will automatically switch to GAS. As soon as AC becomes available again the control will switch back to AC operation.

If 120 volts AC is not available, the control system will automatically switch to GAS operation. Within 45 seconds the burner should be ignited and operating normally. If unsuccessful, the CHECK indicator lamp (B) will illuminate.

To restart an ignition attempt with the CHECK lamp illuminated or to clear (turn off) the CHECK lamp, press the main power ON/OFF button to the OFF and the ON position. The control system will attempt a new 45 second ignition sequence.

On the initial refrigerator start-up on gas (120 volts AC is not available), it may take longer than 45 seconds to allow air to be purged from the gas line. If the refrigerator has not been used for a long time or the LP tanks have just been refilled, air may be trapped in the supply lines. To purge the air from the lines may require resetting the main power ON/ OFF button (1) three of four times. If repeated attempts fail to start the LP gas operation, check to make sure that the LP gas supply tanks are not empty and all manual shutoff valves in the lines are open. If the problem is still not corrected, contact a service center for assistance.

**NOTE**: DO NOT continue to reset GAS operation if the CHECK indicator lamp continues to be illuminated after 3 or 4 tries.

If 120 volts AC becomes available while the CHECK indicator lamp is on, the control system will switch to 120 volt AC operation. The CHECK lamp will not turn off until the main power ON/OFF button is pressed to the OFF then ON position.

In AUTO mode operation, the temperature is controlled by a single temperature setting.

### **B. MANUAL MODE**

When operating in the MANUAL mode, the AUTO mode indicator lamp (A) will be off, and the refrigerator will run continuously on the energy source selected by the control system.

## 5. HOW TO USE THE REFRIGERATOR A. FOOD STORAGE COMPARTMENT

The food storage compartment is completely closed and unventilated, which is necessary to maintain the required low temperature for food storage. Consequently, foods having a strong odor or those that absorb odors easily should be covered. Vegetables, salads, etc. should be covered to retain their crispness. The coldest positions in the refrigerator are under the cooling fins and at the bottom of the refrigerator. The warmer areas are on the upper door shelves. This should be considered when placing different types of food in the refrigerator.

## B. FROZEN FOOD STORAGE COMPARTMENT

Quick frozen soft fruits and ice cream should be placed in the coldest part of the compartment which is on or just below the freezer shelf. Frozen vegetables, may be stored in any part of the compartment.

This compartment is not designed for deep or quick freezing of food. Meat or fish, whether raw or prepared, can be stored in the frozen food storage compartment provided they are precooled first in the refrigerator. They

can be stored about three times longer in the frozen food compartment as compared to the fresh food compartment. To prevent food from drying out, keep it in covered dishes, containers, plastic bags or wrapped in aluminum foil.

#### C. ICE MAKING

Ice cubes can be made in the ice tray placed in the freezer compartment. The tray should be filled with water to within 1/4" (5mm) from the top. For faster ice making, the tray should be placed in direct contact with the freezer shelf.

To release the ice cubes, seize the tray with both hands and twist the tray. Cubes not required should be replaced in the tray. Refill the tray with water and replace the tray on the freezer shelf.

Ice will be made more rapidly if the control panel is set in the MANUAL position. It is a good idea to do this a few hours before the anticipated need for ice, but be sure to set the control back to AUTO setting when the ice is formed. Food in the lower compartment may be frozen if the setting is left in the MANUAL position.

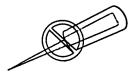
### D. DEFROSTING

Shut off the refrigerator by pressing the main power ON/OFF button to the UP (OFF) position. Empty the refrigerator, leaving the drip tray under the finned evaporator, and the cabinet and freezer doors open. Defrosting time can be reduced by filling the ice tray with hot water and placing it on the freezer shelf.

## ! CAUTION

**DO NOT** use a hot air blower. Permanent damage could result from warping the metal or plastic parts. DO NOT use a knife or an ice pick, or other sharp tools to remove frost from the freezer shelf. They can create a leak in the ammonia system.





When all frost is melted, dry the interior of the refrigerator with a clean cloth. Replace all food and turn the refrigerator back on.

#### E. CLEANING

Cleaning the refrigerator is usually done after it is defrosted or put into storage. To clean the interior liner of the refrigerator, use lukewarm weak soda solution. Use only warm water to clean the finned evaporator, gaskets, ice trays and shelves. NEVER use strong chemicals or abrasives to clean these parts as the protective surfaces will be damaged. It is important to always keep the refrigerator clean.

### F. SHUT-OFF (STORAGE PROCEDURE)

Shut off the refrigerator by pressing the main power ON/OFF button to the UP (OFF) position. (See FIG. 10)

If the refrigerator will not be in operation for a period of weeks, it should be emptied, defrosted, cleaned and the doors left ajar. The ice tray should also be dried and kept outside the cabinet.

## ! WARNING

<u>DO NOT</u> store explosive substances in the refrigerator, such as gasoline and other flammable vapors or liquids.

#### G. CLIMATE CONTROL

During the summer months of high temperatures and humidity, the metal frame between the freezer and fresh food compartments may have water droplets forming. The number of water droplets will increase if the vehicle isn't air conditioned during these months.

This refrigerator comes standard with a 12 volt (DC) climate control that will evaporate the water droplets when they form.

To have the climate control on, you position the switch ("C", Figure 10) located beneath the top decorative strip that houses the control panel to ON. The climate control can be left on continuously or only used when temperatures require it.

## ! CAUTION

THE CLIMATE CONTROL WILL DRAW 12 VOLT DC POWER CONTINUOUSLY WHEN IN THE "ON" POSITION. IT SHOULD BE TURNED "OFF" WHEN A CHARGING SOURCE IS NOT AVAILABLE. IT WILL QUICKLY DRAIN THE CHARGE FROM A BATTERY.

## SECTION D. MAINTENANCE & SERVICE

## Tips for the Service Technician

The user should be aware of service that must be done on a regular schedule to keep the refrigerator operating properly. The service should only be performed by a qualified technician who is familiar with LP gas systems and refrigerators.

#### 1. REFRIGERATOR REMOVAL

Before working on the refrigerator, make sure the AC voltage and DC voltage leads are disconnected. Shut off the gas supply at the LP tank. Disconnect the gas supply line. Cap the gas supply line, loosen the screws anchoring the refrigerator to the enclosure and slide the refrigerator out of the compartment.

Replacement is the reverse of removal. Check all connections for gas leaks. Refer to *Section A, Item 1 to 12 of Installation Instructions*.

## 2. PERIODIC MAINTENANCE

To keep your Dometic refrigerator operating efficiently and safely, periodic inspection and cleaning of several components once or twice a year is recommended.

A. It is important to keep the area at the back of the refrigerator clean. Check the lower vent, upper vent and area between these openings for any obstructions such

as bird/insect nests, spider webs, etc. Clean the coils on the back of the refrigerator. Use a soft bristled brush to dust off the coils.

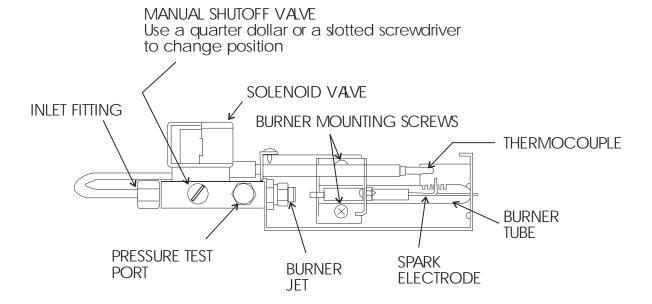
It is important to keep the refrigerator vent area free from combustible material, gasoline and other flammable vapors or liquids.

**NOTE:** The following maintenance is required once or twice a year, but should only be done by a qualified serviceman who is familiar with LP gas systems and refrigerators.

B. Check all connections in the LP gas system (at the back of the refrigerator) for gas leaks. The LP gas supply must be turned on. Apply a noncorrosive bubble solution to all LP gas connections. The appearance of bubbles indicates a leak and should be repaired immediately by a QUALIFIED SERVICEMAN WHO IS FAMILIAR WITH LP GAS SYSTEMS AND REFRIGERATORS.

### GAS EQUIPMENT ASSEMBLY

## FIG. 12

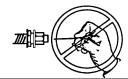




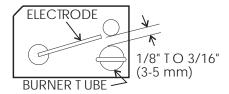
- C. Check the control system by connecting/disconnecting 120 volt AC power, start/stop the engine, etc. Compare the operation with the operation described in Section C. Operation Instructions.
- D. The LP gas pressure should be checked and the main regulator readjusted if pressure is incorrect. The correct operating pressure is 11 inches of water column. The correct place to take the LP gas pressure is at the test port just ahead of the burner jet. (See FIG. 12).
- E. Inspect the flue baffle. It should be reasonably clean and free of soot. Heavy soot formation indicates improper functioning of the burner. The flue and burner both require cleaning in the following manner:
  - 1) Unplug the refrigerator power cord from the 120 volt AC outlet (see FIG. 6).
  - 2) Disconnect or shut off the 12 volt power to the refrigerator.
  - 3) Turn manual shutoff valve to OFF. (See FIG. 6 & 12).
  - 4) Remove cover from the burner housing. (See FIG. 6).
  - 5) Disconnect the wire from the high voltage electrode.
  - 6) Remove the burner mounting screws and remove the burner assembly.
  - 7) Remove the flue cap from top of flue tube and lift out the wire and spiral baffle. Clean the flue from the top using a flue brush. Blowing compressed air into the flue will not properly clean soot and scale out of the flue tube. Replace spiral baffle and flue cap.
  - 8) Clean burner tube with a brush. Blow out burner with compressed air.
  - 9) Before removing burner jet, clean burner area of soot and scale that fell out of flue tube. Remove the burner jet. Soak the jet in wood alcohol and blow it out with compressed air. Reinstall and tighten burner jet.

## WARNING

DO NOT use a wire or pin when cleaning the burner jet as damage can occur to the precision opening. This can cause damage to the refrigerator or create a fire hazard.



- 10) Reinstall burner, being careful that the end of the burner fits into the slot on the burner bracket. Check to make sure slots are centered under the flue tube and the thermocouple is positioned properly (tip of thermocouple extends over two slots of burner).
- 11) Be sure to reconnect the wire to high voltage electrode. Check the electrode for proper location and gap. (See FIG. 13).



#### FIG. 13

- 12) Turn on manual gas shutoff valve and check all fittings for leaks.
- 13) Connect 120 volt power cord to the outlet and reconnect or turn on the 12 volt DC power.
- 14) Check LP gas safety shutoff. See Section A. Installation, Item 9. Testing LP Gas Safety Shutoff.

#### F. FUSES

The 2-way models are equipped with 2 fuses, one for the refrigerator control system and one for the AC cartridge heater (see Table below). To replace fuse(s) proceed as follows:

- 1. Disconnect the wall plug, and the 12 volt wires.
- 2. Remove the power module cover. See FIG. 6.
- 3. Snap the fuse out of the fuse holder.
- 4. Fit a new fuse in to the fuse holder.
- 5. Replace the power module cover.

Control System	3-amp
AC Heater	5-amp

## 3. TROUBLESHOOTING

## **Refrigerator Does Not Cool Properly**

A. Burner jet clogged.

Clean. See Section D. Maintenance & Service, Item 1. Periodic Maintenance, Paragraph E. Item 1-14.

- B. Check level of refrigerator.
- C. Venting problem.

Restriction in air flow across cooling unit.

- D. Heavy frost buildup on evaporator fins. Defrost.
- E. Flue baffle not inserted properly in flue tube.
- F. Improperly set thermostat. See Section C. Operating Instructions, Item 3. Paragraph F.
- G. Burner dirty.

Clean. See Section D. Maintenance & Service, Item 1. Periodic Maintenance, Paragraph E.8.

H. LP gas pressure low at burner.

Set main regulator so pressure does not drop below 11 inches water column at pressure tap.

- I. Burner not located properly under flue tube. Relocate.
- J. Burner damaged. Replace.

- K. Odors and fumes.
  - 1. Dislocated burner. 2. Damagedburner

  - 3. Dirty flue tube.

## L. FUSES

- Refrigerator AC supply
   Refrigerator DC supply
   Refrigerator Control System See Section D. Maintenance & Service, Item 2, Paragraph F.

Contact an authorized service center for parts and repairs as needed.