

MODEL RM2601 REFRIGERATORS FOR CARAVAN USE

FOR YOUR SAFETY

If you smell gas:

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

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.

INSTALLATION & OPERATING INSTRUCTIONS

REFRIGERATOR MODEL RM2601

**IMPORTANT INSTRUCTIONS
READ CAREFULLY**

INSTRUCTIONS FOR OPERATING AND INSTALLATION OF ELECTROLUX CARAVAN REFRIGERATORS

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INTRODUCTION

We are happy that you have chosen this refrigerator and hope you will be very pleased with it. To start with, some well-intentioned advice:

Before operating the refrigerator, please read these operating and installation instructions carefully.

For the refrigerator to perform well and economically, it must be installed and operated as described below.

The refrigerator is intended for installation in a caravan or mobile home. The unit is approved for this purpose in the Federal Republic of Germany by TÜV, VDE and DVGW. However, it is not intended for installation on board a vessel and such use renders the warranty invalid.

DAMAGE IN TRANSIT

Damage in transit must be reported immediately to the company responsible for transportation, and not later than seven days after receipt of goods.

UNPACKING

After removing the packaging material, check the refrigerator for damage in transit. If damaged, follow the above procedure.

Check on the rating plate (see below) that you have received the correct model and that your power supply and gas pressure correspond to the values shown (in Germany, 230 volts and 50 mbar, respectively).

RATING PLATE

The rating plate is located inside the refrigerator and contains information which includes:

Model No.	RM
Product No.	
Serial No.	
Electrical rating	 Volt
Gas pressure	 mbar

You will need this information when contacting Customer Service and we recommend you enter it here. Additional technical data are found in the TECHNICAL INFORMATION section of these operating instructions.

OPERATING INSTRUCTIONS

CONTROL PANEL

The refrigerator can run either on 230 V, 12 V, or liquefied (propane/butane) gas. The mode of operation is set by means of the control elements on the panel (Fig. 1).

The power selector (A) has four positions, representing 230 V, 12 V, liquefied (propane/butane) gas, and 0 (off).

The temperature in the main refrigeration compartment is regulated by the knob (B). Please note that a pilot flame will stay on even with the thermostat in the lowest position.

The refrigerator has a flame protector which automatically shuts off the gas supply if the flame goes out. When selecting gas operation, you must open the flame protector manually by means of the knob (C).

An indicator lamp (E) on the panel will flash while the automatic ignition device lights the flame. The lamp is off at other times.

STARTING THE REFRIGERATOR

Position numbers in the text refer to Fig. 1.

GAS OPERATION

The refrigerator is designed only for operation with liquefied gas (propane/butane). The operating pressure must correspond to that shown on the rating plate. Please compare it to the data shown on the pressure reducing valve on the liquefied gas container.

1. When necessary, open the shutoff valve on the gas container and the connected stopcock (check that there is sufficient gas in the container).
2. Set the thermostat (B) in the highest (coldest) position.
3. Set the power selector (A) in the "Gas" position. You will hear a ticking noise and the lamp (E) will start flashing.
4. Pressing and holding the ignition safety knob (C) will allow gas to flow to the burner.
5. When the flame is burning, the lamp (E) will stop flashing. If the flame goes out, it will be automatically re-ignited. If the flame has not started burning within one minute, repeat the start-up procedure.
6. Keep the knob (C) depressed for another 10-15 seconds, then release.

230 VOLT OPERATION

Before taking the refrigerator into operation, please check that the power supply in the house or camping area corresponds to the voltage shown on the rating plate.

- * Set the power selector in the 230 V position.

12 VOLT OPERATION

12 V operation should only be used while travelling (with the vehicle engine running), since the battery will otherwise discharge rapidly.

- * Set the power selector (A) in the 12 V position.

WINTER OPERATION

If the refrigerator has been switched off at -12°C or colder, it cannot be started on mains or 12 V power; it must be started on gas, but can be switched to electrical operation after about 5 hours.

TEMPERATURE CONTROL

Position numbers refer to Fig. 1.

An absorption refrigerator operates entirely noiselessly. About one hour after start-up, the freezing compartment should be cold. It takes 2-4 hours (depending on the ambient temperature) for the refrigerator to reach normal operating temperature. The cooling time is longer when the refrigerator is stocked with food (4-8 hours). It is therefore best to switch on the refrigerator before a trip and stock it with pre-cooled foods, if possible.

The temperature in the main compartment is controlled by a thermostat. The degree of cooling can be adjusted by rotating knob (B) between MIN and MAX.

During 12 V operation, the refrigerator operates continuously and the thermostat does not work.

DOOR LOCKS

The lockable door closure, Fig. 2, has two positions. The first (locked) is used during travel, and the second (slightly open) when the refrigerator is out of operation for a prolonged period.

STORING FOODS

Always store food in closed containers, aluminum foil etc. Never place hot food in the refrigerator without first letting cool to room temperature.

Items which release volatile, flammable gases must not be stored in the refrigerator.

The (**) freezing compartment is intended for ice cube making and for storage of frozen foods, e.g. ice-cream. It is not intended for the freezing of foods.

Most frozen foods can be stored in the freezing compartment for up to one month. However, storage times may vary and directions on the package should be observed.

MAKING ICE CUBES

To make ice, fill ice dish with water and place it on the cooling plate in the freezing compartment. For quicker production of ice cubes, set control knob in the highest position, but do not forget to re-set it afterwards.

DEFROSTING

With time, frost will form on the cooling ribs in the main compartment. At the latest when the frost layer reaches 3 mm, the refrigerator must be defrosted to maintain proper performance.

Turn off the refrigerator. Remove foodstuffs and ice dishes and keep the door(s) open. However, do not use an outside heating source and do not attempt to scrape off the frost with a sharp object.

The meltwater will accumulate in a drip tray which must be emptied when defrosting is completed.

After defrosting, dry the refrigerator with a cloth, switch it on and return the foodstuffs. However, wait until next day before making ice cubes.

CLEANING THE REFRIGERATOR

First switch off and defrost the refrigerator as described above. Remove, rinse and dry loose components (racks, supporting grates etc). Use a cloth moistened with lukewarm water (a mild detergent may be added) to wipe off the refrigerator inside. Wipe again with clean water and dry with a soft cloth.

Also wipe the PVC sealing strips on the doors with a moist cloth and rub them periodically with talcum powder. Never use scouring agents, strong detergents, heavily perfumed products, wax etc.

When the opportunity arises, remove dust from the cooling unit at the back of the refrigerator and especially from the tubing and between the ribbing. The refrigerator should be switched off.

SHUTDOWN

The refrigerator should be shut down when not in use for a prolonged period.

- * Switch off the gas at the shutoff valve on the caravan.
- * Set gas shutoff valve or power selector to "0".
- * Empty the refrigerator, defrost and clean as described above. Keep doors to refrigerating and freezing compartments slightly open. If necessary, use the transport clamps to keep them in this position.
- * Check that the interior light (not included in all models) remains switched off. If necessary, unscrew the light bulb.

TROUBLE SHOOTING

Before calling Customer Service, check that:

1. directions in the section "Starting the refrigerator" have been followed;
2. the refrigerator is standing horizontally;
3. at least one of the available power sources can be used to operate the refrigerator.
4. If the refrigerator does not operate on liquefied (propane/butane) gas, check:
 - * whether the gas container is empty;
 - * that the shutoff valves are open.
5. If the refrigerator does not operate on 12 V with the vehicle engine running, check:
 - * that the 12 V source is connected;
 - * that the 12 V fuse in the caravan is intact;
 - * that the battery is not run down.
6. If the refrigerator does not operate on 230 V, check:
 - * that the 230 V source is connected to the refrigerator;
 - * that the fuse is intact.

If the refrigerator is not cooling sufficiently, the reason may be:

1. Inadequate ventilation of the cooling unit due to the intake and/or exhaust air vents being partly or completely blocked.
2. The evaporator may have iced up.
3. Incorrect thermostat or control valve settings.
4. Incorrect gas pressure - please check the pressure regulator on the gas container.
5. Ambient temperature excessive, e.g. in a tent.
6. Too much (warm) food has recently been put into refrigerator.
7. The door seal is not tight all around, or the door is not properly closed.

If the refrigerator still does not function properly, call Customer Service. Refer to the section CUSTOMER SERVICE AND SPARE PARTS.

The cooling unit is a high pressure unit and must not be opened.

! WARNING

Gas and electrical installation work requires a licenced professional and should preferably be carried out by an authorized customer service outlet.

Once every year, the refrigerator should be removed and the cooling unit, including flame tube and burner, cleaned, the function tested, and the gas equipment checked for leaks.

At that time, the refrigerator compartment and ventilation grill should be cleaned and checked. Is there drainage for possible water spills, or should you check for water damage? Is the intake of combustion air (through the ventilation grill) secure and is the exhaust vent open and clean?

Under applicable regulation G607 of the DVGW, the gas unit and its exhaust system must be checked by a professional every two years (operator's responsibility).

SOME ADVICE

Please ensure that:

- * 12 V operation does not stay on for long periods of time, when the vehicle is idle;
- * the refrigerator is defrosted regularly;
- * the refrigerator is shut down as described when not in use;
- * foods with strong odor are carefully packaged;
- * the air vents are kept open;
- * door locks are in the locked position during travel.

WARRANTY

The refrigerator is guaranteed for one year from the date of delivery to the end user (keep invoice or other proof), subject to normal use and observance of these operating instructions.

In addition, the refrigerator has a European warranty in accordance with the document found within.

CUSTOMER SERVICE AND SPARE PARTS

Customer service and spare parts are obtainable from dealers or Electrolux Customer Service outlets throughout Europe. The responsible company is Elpro in the Federal Republic of Germany, Electrolux in Switzerland, and Zanussi in Austria. Addresses are found in the European warranty.

TECHNICAL INFORMATION

External dimensions of the refrigerator

Height (incl. control panel) 1321 mm
Width 585 mm
Depth, incl. cooling unit 627 mm

Recess Dimensions

Height 1305 mm
Width 554 mm
Depth 608 mm

Capacity

Gross 185 litres
Usable volume 175 litres
whereof freezing compartment 34 litres

Weight (packaging excluded) 52 kg

Electrical rating

Input, 230 V 250 Watts
12 V 215 Watts

Technical gas rating

Input 380 Watts
minimum setting 250 Watts
Gas consumption per 24 h 550 g

Refrigerant: Ammonia

INSTALLATION INSTRUCTIONS

MOVING THE HINGES

Door closures can be moved from one side to the other as follows:

UPPER DOOR

- * Leave door lock open
- * Remove both screws and dismantle the control panel (electronic components are located behind it, so be careful when removing)
- * Remove the door handle and attach it on the opposite side
- * Loosen the upper hinge bolts and remove the door
- * Loosen the lower hinge bolts and attach them on the opposite side
- * Position the door and attach the upper bolts. Check that the door moves freely and that the seal fits tightly all around.
- * Re-attach the control panel.

LOWER DOOR

- * Remove the door handle and attach it on the opposite side
- * Loosen the upper hinge bolts and remove the door
- * Loosen the lower hinge bolts and attach them on the opposite side
- * Position the door and attach the upper bolts
- * Check that the door moves freely and that the seal fits tightly all around.

DECORATIVE DOOR PANEL

Decorative door panels are easy to exchange or attach. Panels must have the following dimensions (Fig. 4):

	A	B
Height	321-23 mm	834-36 mm
Width	568-70 mm	568-70 mm
Thickness	max. 4 mm	max. 4 mm

INSTALLING THE REFRIGERATOR

The refrigerator must be placed and secured in a firm and level position. In addition, it must be installed where it is protected from direct sunlight and radiating heat from other objects.

For good performance, also during high ambient temperature, it is most important that the cooling unit (at the back of the refrigerator) is adequately ventilated.

The ventilation grill must have a free opening of at least 400 cm squared. Covering the opening by a screen may reduce its area by as much as 50%.

Our recommended installation is as follows:

VENTILATING THE REFRIGERATOR FROM OUTSIDE

The space formed behind the refrigerator on installation must be totally sealed off from the interior of the caravan to prevent exhaust fumes and outside air from entering into the caravan. Sealing strips should therefore be applied behind the front frame of the refrigerator. The space between the front edge of the refrigerator and the floor in the mounting niche must also be sealed in this manner.

Make two ventilation openings in the exterior wall of the caravan in the area of the mounting niche. The space (Fig. 7) formed between the caravan wall and the refrigerator must be totally sealed off from the interior of the caravan to prevent exhaust fumes and outside air from entering into the caravan.

In the mounting niche, a ventilation shaft for the cooling unit is formed behind the refrigerator; see Fig. 8.

The side walls of the shaft should be thermally insulated to prevent condensation and suction phenomena. Shaft wall sections located above and below the exhaust gas vent must not be made of flammable materials.

Two openings in the exterior wall of the caravan will allow circulation of outside air.

The upper opening should be located above the condenser, as high as possible, to ensure good ventilation.

The lower opening should be located at the lower edge of the shaft to allow any leaking gas to escape to the outside.

The openings must be protected by appropriate, fire-resistant grills.

GAS INSTALLATION

The unit is intended only for operation with liquefied gas (propane/butane), under no circumstances with city or natural gas. It is necessary to have a permanently installed pressure regulator (pressure reducer) which lowers the container pressure to the connecting pressure shown on the rating plate.

The gas connection to the refrigerator must be rigid (hose connections are not permitted). Installation must be made by a licenced professional. The connection requires an EL 8 DIN 2353-St cutting ring (Ermeto) screw coupling in accordance with worksheet G 607 of the DVGW. On the caravan side, an easily accessible equipment shutoff valve must be installed.

The safety regulations contained in the worksheet strictly prohibit checking gas operated equipment and installations for leaks by means of an open flame. This regulation applies to all types of liquid gas. The regulation recommends coating with foam-forming substances, such as hand cleaning agents, liquid soap etc.

All gas-containing components, especially screw couplings, must be checked for leaks in the prescribed manner.

ELECTRICAL INSTALLATION

Wiring diagram, see Fig. 3

230 VOLT CONNECTION

Connection to the 230 V power supply requires a properly grounded plug socket or a grounded fixed connection. The cable (including the 12 V cable) must be laid so that it does not come into contact with heated parts of the cooling unit/burner, or with sharp edges.

12 VOLT CONNECTION

The 12 V connecting cable on the caravan side is attached to a 2-pole terminal strip on the refrigerator (check the polarity!) (Fig. 5, "X"). The cable should run directly by the shortest possible route to the battery or generator (cable diameter: minimum 4 mm squared, recommended 6 mm squared). On the caravan side, the 12 V circuit must be protected by a 30 A fuse.

So as not to forget disconnecting the 12 V operation when the vehicle engine is switched off, it is recommended to wire the power supply so that it is interrupted when the ignition key is turned.

Wiring diagram, see Fig. 6.

The electronic re-ignition device requires a permanent 12 V power supply and we recommend a direct 12 V connection (properly polarized!) to the porcelain insulator (Y), e.g. from the main power supply.

ASSEMBLY

Push the refrigerator into the niche. Check that there is at least 25 mm play between the rear wall of the niche and the cooling unit.

Secure the refrigerator with screws through the front frame. (Fig. 7)

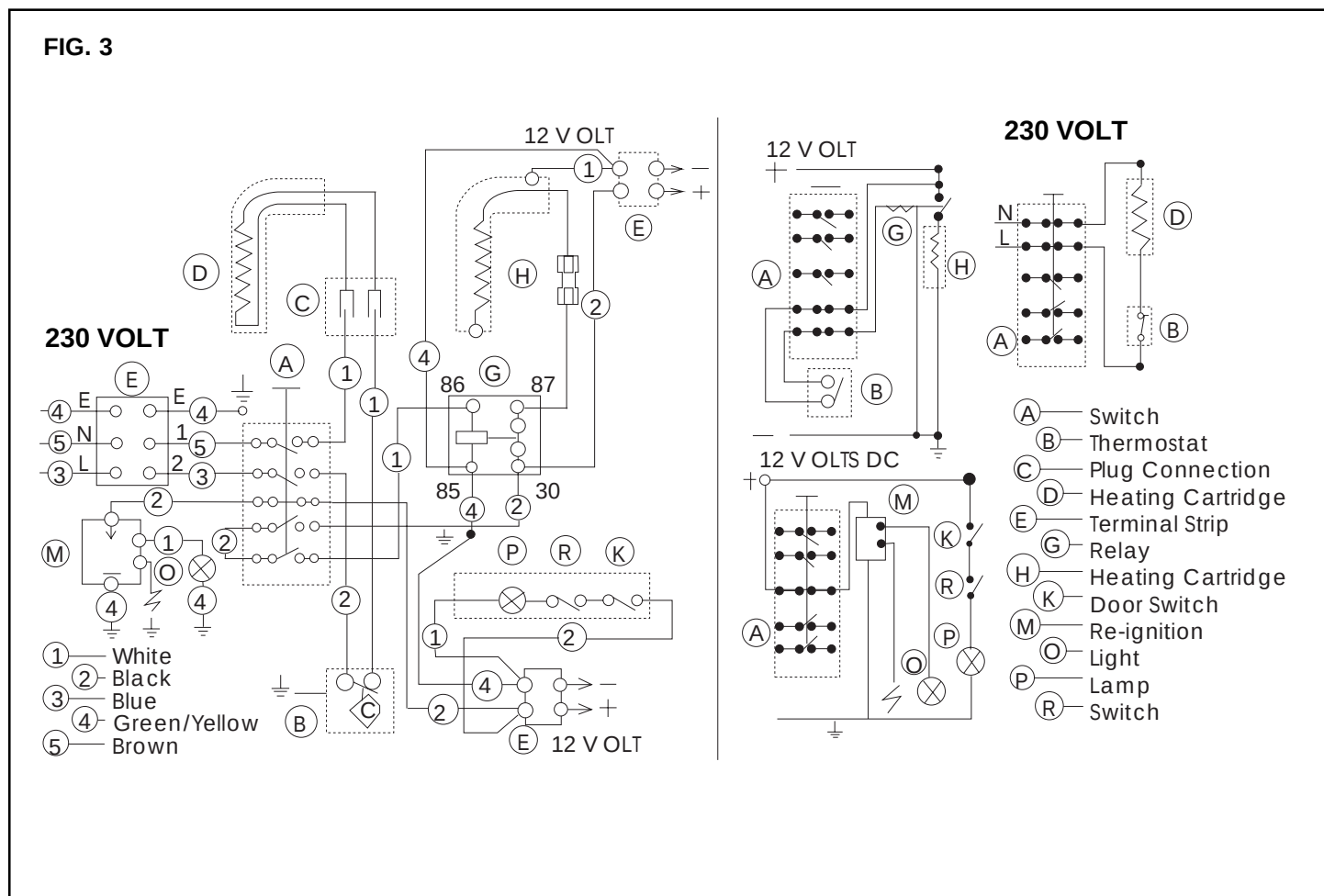
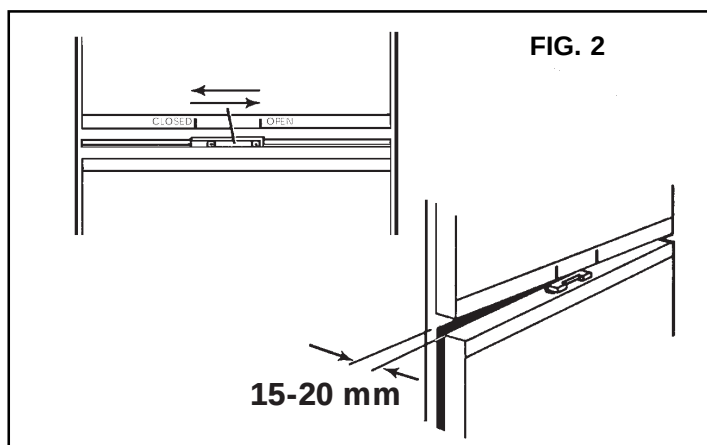
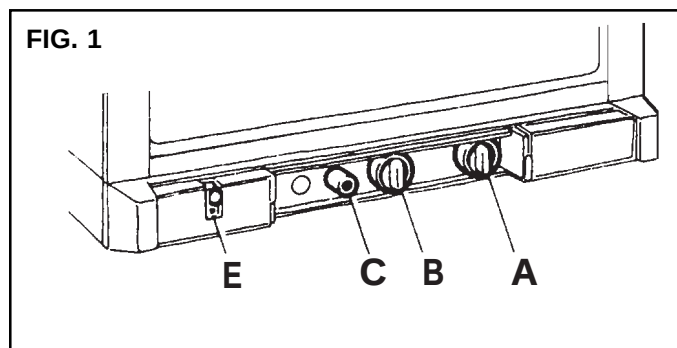


FIG. 4

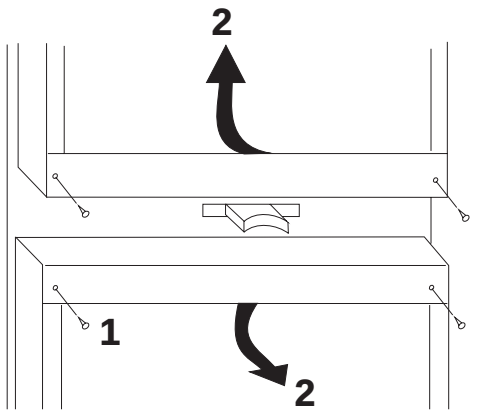


FIG. 5

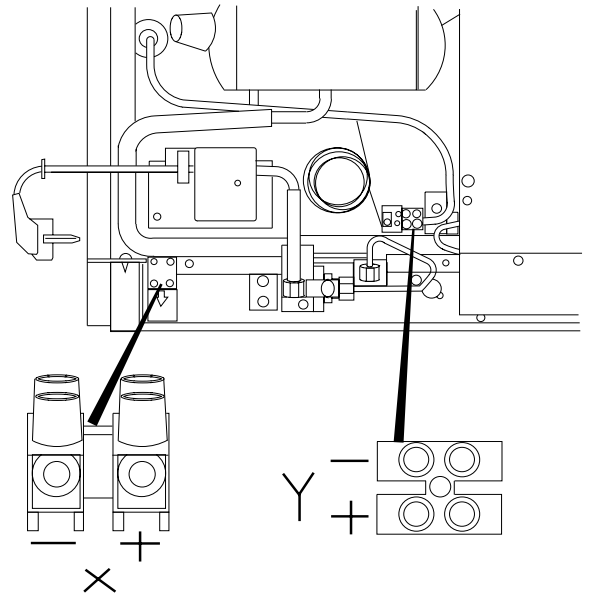


FIG. 6

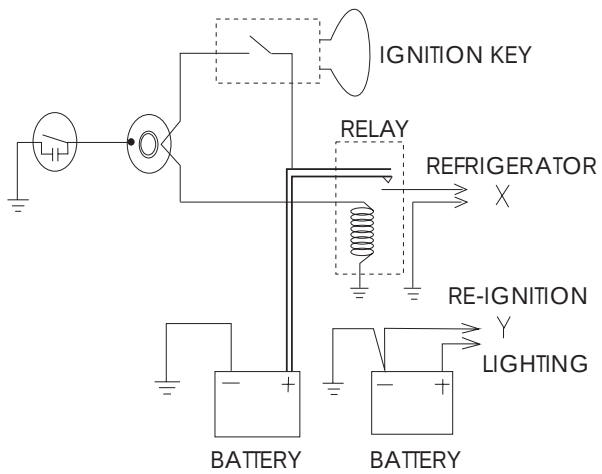


FIG. 7

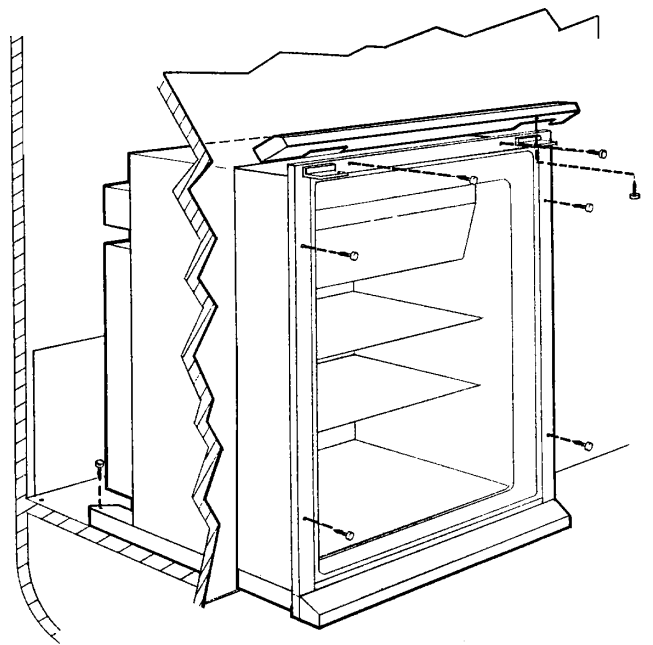


FIG. 8

