



Dometic[®]

Talisman ——— Royale

GAS/ELECTRIC REFRIGERATORS

WITH 

**INSTALLATION AND
OPERATING INSTRUCTIONS**

FOR YOUR SAFETY

If you smell gas:

1. Open windows.
2. Don't touch electrical switches.
3. Extinguish any open flame.
4. Immediately call your gas supplier.

FOR YOUR SAFETY

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



Dometic

INSTALLATION AND OPERATING INSTRUCTIONS

REFRIGERATOR FOR LP-GAS AND ELECTRIC OPERATION EQUIPPED WITH AUTOMATIC ENERGY SELECTOR

RM 3601 RM 3801
Automatic Energy Selector

**3-WAY
ROYAL**



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Dometic

quality leisure line products

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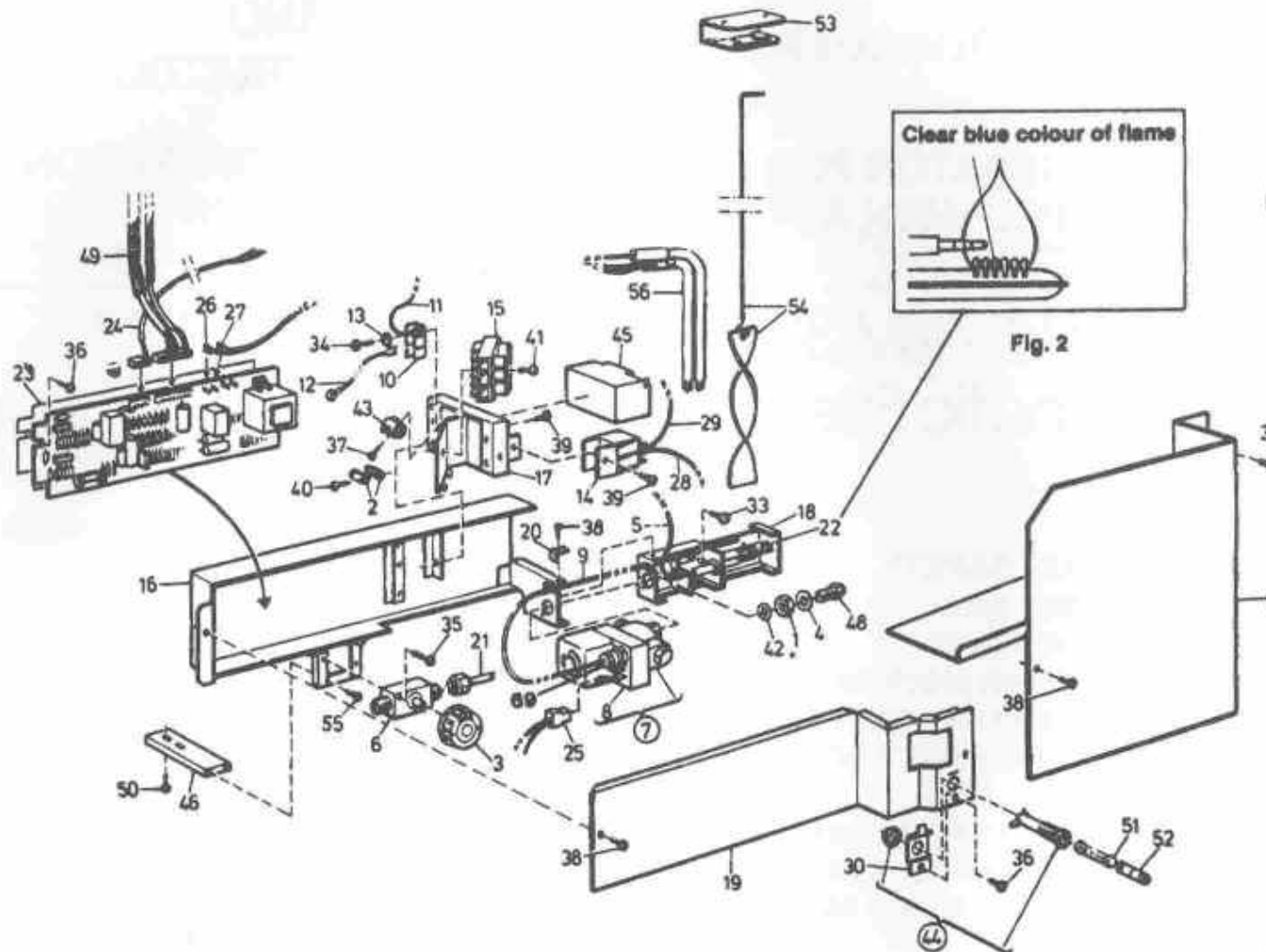


Fig. 1

Item

No. Description

1 Nut

2 Anti-strain clip

3 Knob

4 Washer

6 Gas valve

7 Thermo-electric solenoid valve

9 Thermo couple element

14 Relay

15 Terminal

16 Componentbox

18 Burner housing

19 Cover

20 Retainer

21 Gas pipe

22 Burner

32 Protection plate

44 Fuse holder

45 Igniter

46 Retainer for gas valve

47 Flexible cord

48 burner jet

51 Fuse-link, 3A

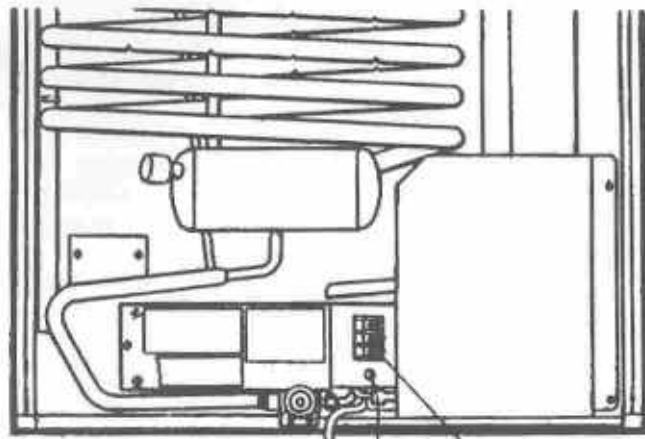
52 Insert

53 Fuse cap

54 Flue baffle cpl.

68 Circuit board

69 Plug



- 15 Terminal
- 47 Flexible
- 51 Fuse-link, 3A
- 52 Insert



Fig. 3

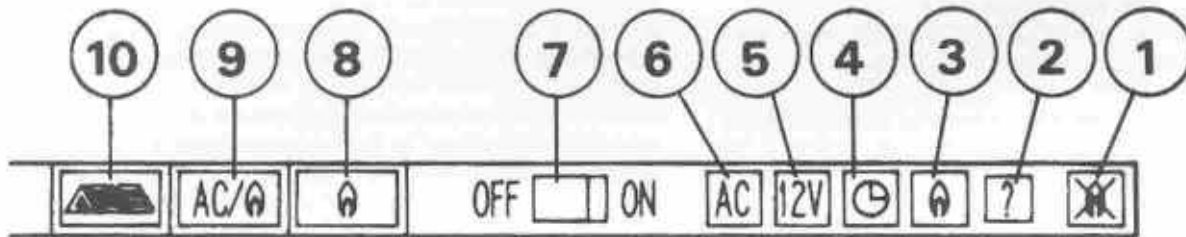


Fig 4.

1. Orange, continuous light indicating gas ignition failure, = no gas
2. Push-button for indication of mode. Mode indication is only made while the button is pressed.
3. Flame symbol, yellow, indicating gas mode.
4. Clock symbol, yellow, indicating delay mode.
5. Text 12V, yellow, indicating 12 V DC mode.
6. Text AC, yellow, indicating main voltage mode.
7. Main switch.
8. Push-button, green, giving gas operation only.
9. Push-button, green, giving energy selection between AC and gas. No 12 V power selection possible.
10. Push-button, green, giving full AES operation.



Fig. 4

INSTALLATION

GENERAL INSTRUCTIONS

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

The refrigerators outlined hereon have been design certified under ANS Z 21.19a-1984, refrigerators by the American Gas Association 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.

The installation must in the USA conform with:

1. National Fuel Gas Code ANSI Z223.1-1984
2. Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 32-80
3. Recreational Vehicles ANSI/INFP No. 501 C-1987

The unit must be electrically grounded in accordance with the National Electric Code ANSI/NFPA No 70-1987 when installed if an external alternating current electrical source is utilized.

4. Any applicable local code

The installation must in Canada conform with:

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

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

Ventilation

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

Proper installation requires one lower fresh air intake and one upper exhaust vent. The ventilation kits shown in this instruction booklet have been certified for use with the refrigerator models listed in the table. **Certified vent system kits, see separate list.** The ventilation kits must be installed and used without modification. An opening towards the outside at floor level in the refrigerator compartment must be provided for ventilation of heavier-than-air fuel gases. The lower vent of the recommended kits is provided with proper size openings. The flow of combustion and ventilating air must not be obstructed.

For ready serviceability of the burner and control manifold parts of the refrigerator the lower side vent is fitted with a liftout panel which provides an adequate access opening.

GAS CONNECTION

Hook-up to the gas supply line is accomplished at the manual gas 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 soapy water.

The gas supply system must incorporate a pressure regulator to maintain a supply pressure of not more than 11 inches water gauge.

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 or equal 1/2 psig the appliance must be isolated from the gas supply piping system 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.

ELECTRICAL CONNECTION

120 V AC

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 cord should be routed to avoid coming in contact with the burner cover, flue cover or other hot components.

12 V DC CONNECTION

The connection is to be made to a terminal block 15, see fig 3. The refrigerator must be connected to the battery circuit with two wires of adequate capacity to avoid voltage drop. The wire gauge should be chosen with consideration to the wire length in accordance with table below. The 12 V circuit must be fused. Maximum circuit fuse size: 25 Amps for RM 3601 and RM 3801.

Do not use the body or chassis of the vehicle as a substitute for either of the two conductors. No other electrical equipment or lighting should be connected to the refrigerator circuit. The refrigerator will draw 18 Amps at 12 volt.

Suggested maximum total conductor wire length in feet (m)

AWG	RM3601	RM3801
10	17(5)	17(5)
8	27(8)	27(8)

Caution

It is necessary with a battery in the 12 Volt circuit. The operation of the 12 Volt control system can be disturbed if it is powered by a converter only.

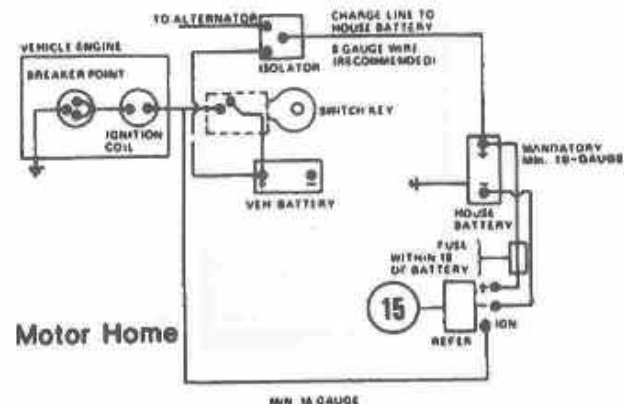


Fig.6

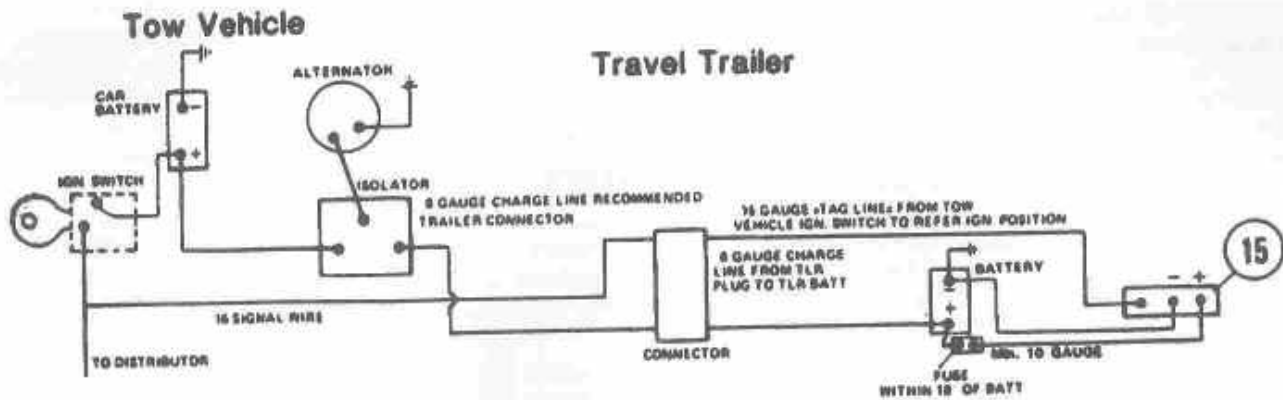


Fig.7

SPECIAL HINTS

Note. Do not install the appliance directly on carpeting. Carpeting must be protected by a metal or wood panel beneath the appliance which extends at least full width and depth of the appliance.

The refrigerator must be installed in a substantial enclosure and must be level. A spirit level is supplied with each refrigerator and by placing it in the freezer compartment one can level the refrigerator both ways front to back and side to side. When installing the refrigerator in the enclosure care should be taken to ensure a complete sealing between the front frame of the refrigerator and the top, sides and bottom of the enclosure. For this purpose a length of sealing strip is applied to rear surfaces of the front frame. A sealing strip should also be applied to the fore most floor of the enclosure as shown in fig 8. The sealing should provide a complete isolation of the appliance combustion system from the vehicle interior.

Be careful not to damage the sealing strip applied to the floor of the enclosure when the refrigerator is put in place. In the front frame and in the base at the rear of the refrigerator there are holes for screws for fixing the refrigerator in the enclosure. See fig.9.

Any space between counter or storage area and the top of the refrigerator greater than 1 1/2" should be blocked. The heat produced at the rear of the refrigerator will otherwise become trapped in this space making the top of the refrigerator hot and reducing the efficiency of the refrigerator.

TO CHANGE THE DOOR, see last page

TEST OF THE GAS SAFETY SHUTOFF

The gas safety shutoff device must be tested after the refrigerator is placed in operation.

1. Start the refrigerator according to the instructions without connecting to 120V nor 12V D.C. power (to ign.lock).
2. Check that the gas flame is lit. The green push-button lamp shall now be lit.
3. Close the manual gas valve on the back of the refrigerator, item 6 in fig. 1.
4. Wait 4 minutes. the orange lamp should now be lit and the green lamp (see 2. above) goes out, and the flame extinguished.
5. Open the manual valve without turning the main switch. Test that no gas comes through the jet,

- item 48 in fig. 1, use soapy water, rinse afterwards with fresh water.
6. Make an off-on operation with the main switch. Normal gas operation should now return, operate for at least 5 minutes.

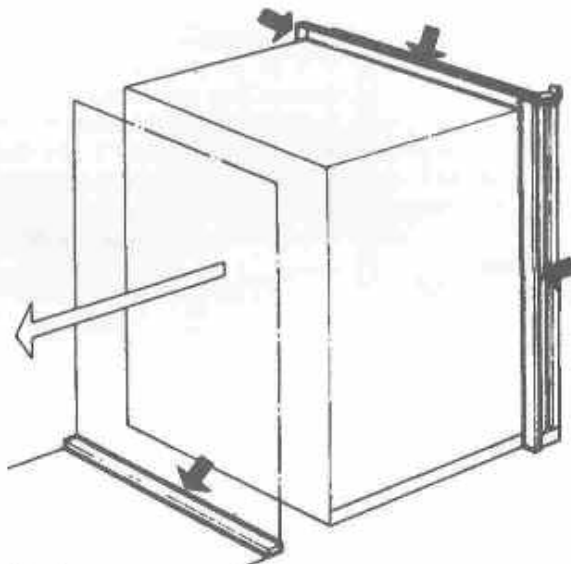


Fig. 8

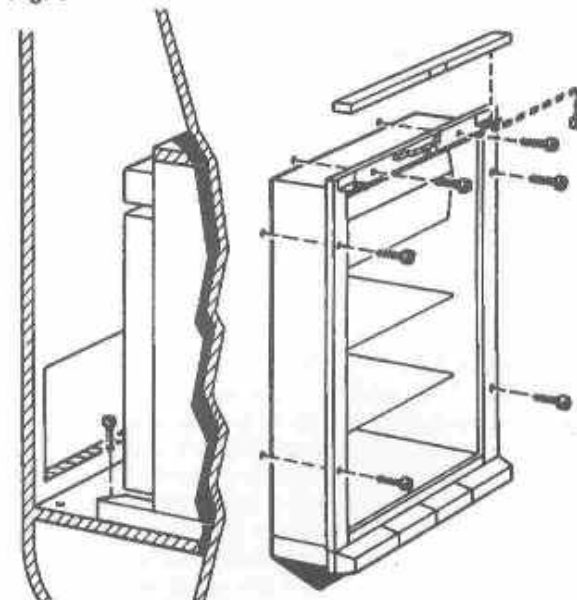


Fig. 9