ELECTROLUX LIMITED,
LUTON, BEDS., ENGLAND.

RM212 CARAVAN REFRIGERATOR WITH ELECTRONIC RE-IGNITER

THE ELECTRONIC IGNITION SYSTEM FITTED TO THIS REFRIGERATOR IS IN PLACE OF THE PIEZO IGNITER USED ON STANDARD MODELS. IN OTHER RESPECTS, THE INFORMATION GIVEN IN THE SEPARATE INSTRUCTIONS FOR INSTALLATION AND USE STILL APPLY AND SHOULD BE REFERRED TO IN CONJUNCTION WITH THIS LEAFLET.

General Information.

The electronic ignition system is for permanent connection to a 12V car battery fitted in the caravan. The current drain is negligible therefore the battery can be the same one that is used in the caravan for operating other equipment such as lights, water pump, etc. The same battery must not, however, be used for operating the cooling unit of the refrigerator. Operation of the cooling unit on 12V electricity must be from a separate supply, i.e. from the main battery in the towing vehicle, as detailed in the refrigerator installation instructions.

The Electronic Igniter.

The spark generating components of the igniter are housed in a plastic box fitted at the left-hand side of the top of the refrigerator (see fig.1), connected to a neon-illuminated switch in the control panel at the front, and to a spark electrode located over the burner head at the bottom rear left hand side, under the boiler.

When the switch is switched on, the electronic circuit is activated producing a series of sparks between the electrode and the burner head. The neon light in the switch will flash on and off as sparking takes place. As soon as the burner lights, the flame is detected by the electrode, sparking ceases, and the neon light will go out.

After the burner has lit, the switch should be left in the 'On' position so that, in the event of the burner going out (due to a gust of wind for instance) the igniter will automatically start sparking again and re-light the burner, - provided of course that gas is present.

If the burner does not re-ignite within 30 to 60 seconds, the flame failure valve will close and automatically shut off the flow of gas to the burner. If this happens, sparking will continue to take place and the neon light in the switch will flash continuously to alert the user that something is wrong, or that the gas bottle is empty and needs replacing.

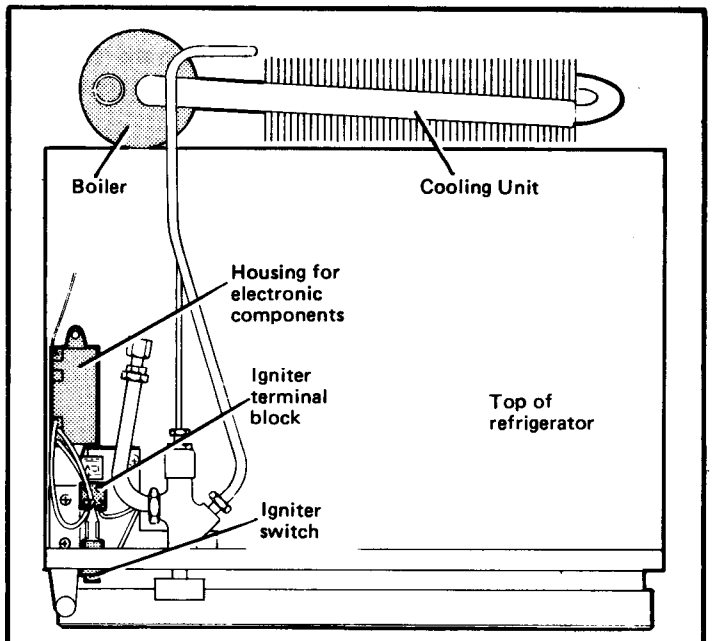


Fig. 1 View of top of refrigerator, showing Electronic Igniter layout.

Installation

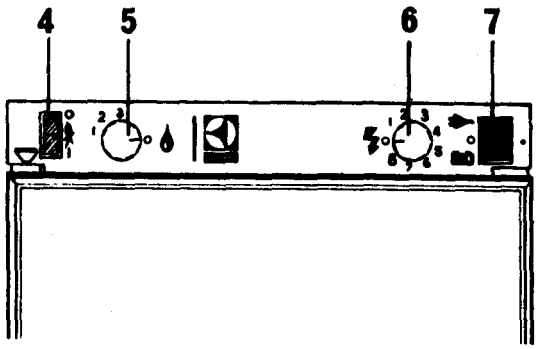
The refrigerator must be installed in the caravan as detailed in the separate installation instructions for Standard models. In addition, the electronic re-igniter must be connected to a 12V battery in the caravan, - see earlier information re this under the heading "General Information".

The size of the wire used to connect the battery to the igniter terminal block (fig.1), should be at least 0.75mm^2 in cross-sectional area. Correct polarity must be observed, - the '+' and '-' terminals of the battery must be connected to the similarly marked terminals of the terminal block.

All wiring must be kept clear of the pipework of the cooling unit at the top rear of the refrigerator as this becomes hot when it is operating and may damage the insulation of the wire if in contact.

Lighting the burner (see fig.2).

1. See that the voltage selector switch (7) is set at '0', i.e. is at its central (off) position.
2. Turn on the valve of the gas bottle and open any gas taps in the supply pipe to the refrigerator.



4. Switch for electronic igniter. 'O' = off, '1' = on.
5. Combined gas control and flame failure device.
6. Electric thermostat (220 or 240V operation).
7. Voltage selector switch. (The meanings of the symbols are given below).

= 220/240V

O = off

= 12V

Fig. 2

3. Turn the knob (5) of the gas control valve so that the indicator mark is opposite setting No.3.
4. Switch on the ignition switch (4) by pushing in the bottom of the switch against the symbol 'I'. The neon light in the switch should start flashing indicating that sparking is taking place.
5. Push in fully the knob (5) of the gas control valve and keep it held in. When the burner lights, the neon in the switch will stop flashing and go out When this happens, keep the knob (5) held in for a further 15 seconds or so for the thermocouple over the burner to heat up, then release the knob. If the neon starts flashing again, it indicates that the flame has gone out, in which case, repeat operation No.5.
6. After lighting the burner, leave the switch (4) in the 'On' position.
   Refer to the separate Instructions for Use supplied regarding general use and care of the refrigerator.

Emergency Lighting Procedure

Although the refrigerator ignition system is primarily designed to operate from a 12V car battery, it will, in practice, operate satisfactorily on d.c. voltages considerably below this. If, therefore, the situation arises where the recommended battery supply fails, the burner can, in an emergency, be lit by using a 9V dry cell (e.g. type PP3 or PP7 9V battery, as used for radios etc.). If doing this, it is essential that the correct "+" and "-" polarity is observed when connecting up, otherwise the igniter will not operate.