

# **IDEAL MEXICO SUPER CF. 65, 75, 80, 100, 125 & 140 Conventional Flue Gas Boilers Installation & Servicing**

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**CAUTION:**

To avoid the possibility of injury during the installation, servicing or cleaning of this appliance, care should be taken when handling the edges of sheet steel components.

**NOTE:** The appliances are for use with **NATURAL GAS ONLY**

**G.C. Appliance No's:**

|                           |           |
|---------------------------|-----------|
| IDEAL MEXICO SUPER CF. 65 | 41.407.40 |
| IDEAL MEXICO SUPER CF. 75 | 41.407.42 |
| IDEAL MEXICO SUPER CF. 80 | 41.407.44 |
| IDEAL MEXICO SUPER CF.100 | 41.407.46 |
| IDEAL MEXICO SUPER CF.125 | 41.407.48 |
| IDEAL MEXICO SUPER CF.140 | 41 421.39 |

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**NOTE TO INSTALLER:**

**LEAVE THESE INSTRUCTIONS ADJACENT TO THE GAS METER**

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**Stelrad**  **Ideal**

| Boiler Size               |  | CF.65                                                 | CF.75     | CF.80     | CF.100    | CF.125    | CF.140      |
|---------------------------|--|-------------------------------------------------------|-----------|-----------|-----------|-----------|-------------|
| Main Burner Bar           |  | FURIGAS SR                                            |           |           |           |           |             |
| Gas Control               |  | 1/2 in. BSP HONEYWELL 'Compact' V4600 A1023 240V 50Hz |           |           |           |           |             |
| Burner Injector           |  | BRAY Cat.33                                           |           |           |           |           | BRAY Cat.10 |
|                           |  | Size 950                                              | Size 1100 | Size 1300 | Size 1500 | Size 1700 | Size 2200   |
| Pilot Injector            |  | HONEYWELL BCR.18                                      |           |           |           |           |             |
| Gas Supply Connection     |  | Rc 1/2                                                |           | Rc 3/4    |           |           |             |
|                           |  | 1/2                                                   |           | 3/4       |           |           |             |
| Flow Connections          |  | Rc 1                                                  |           |           |           |           |             |
|                           |  | 1                                                     |           |           |           |           |             |
| Return Connections        |  | Rc 1                                                  |           |           |           |           |             |
|                           |  | 1                                                     |           |           |           |           |             |
| Flue Outlet Size          |  | 102                                                   |           | 127       |           | 152       |             |
|                           |  | 4                                                     |           | 5         |           | 6         |             |
| Maximum Static Water Head |  | 30.5                                                  |           |           |           |           |             |
|                           |  | 100                                                   |           |           |           |           |             |
| Minimum Static Water Head |  | 1.0                                                   |           |           |           |           |             |
|                           |  | 3.28                                                  |           |           |           |           |             |
| Electric Supply           |  | 240V ~ 50Hz                                           |           |           |           |           |             |
| External Fuse Rating      |  | 3A                                                    |           |           |           |           |             |
| Water Content             |  | 7.4                                                   |           |           | 9.8       | 12.2      | 14.6        |
|                           |  | 1.6                                                   |           |           | 2.1       | 2.7       | 3.2         |
| Dry Weight                |  | 99.0                                                  |           |           | 120.0     | 140.0     | 154         |
|                           |  | 218.0                                                 |           |           | 264.5     | 308.6     | 340         |

Table 2 PERFORMANCE DATA

| Boiler Size                   |      |             | CF.65  | CF.75  | CF.80   | CF.100  | CF.125  | CF.140  |
|-------------------------------|------|-------------|--------|--------|---------|---------|---------|---------|
| Boiler Input **               | MIN. | kW          | 20.46  | 22.56  | 26.64   | 29.60   | 39.96   | 48.5    |
|                               |      | Btu/h       | 69 800 | 77 000 | 90 900  | 101 000 | 126 100 | 165 500 |
|                               | MAX. | kW          | 24.19  | 28.20  | 30.40   | 37.00   | 46.10   | 54.3    |
|                               |      | Btu/h       | 82 500 | 96 200 | 103 700 | 126 200 | 157 300 | 185 400 |
| Boiler Output to Water        | MIN. | kW          | 16.12  | 17.60  | 20.50   | 23.45   | 29.30   | 36.6    |
|                               |      | Btu/h       | 55 000 | 60 000 | 70 000  | 80 000  | 100 000 | 125 000 |
|                               | MAX. | kW          | 19.05  | 22.00  | 23.45   | 29.30   | 36.64   | 41.0    |
|                               |      | Btu/h       | 65 000 | 75 000 | 80 000  | 100 000 | 125 000 | 140 000 |
| Burner Setting Pressure (Hot) | MIN. | mbar(gauge) | 9.0    | 8.7    | 8.2     | 8.5     | 9.9     | 11      |
|                               |      | in.w.g.     | 3.6    | 3.5    | 3.3     | 3.4     | 4.0     | 4.4     |
|                               | MAX. | mbar(gauge) | 12.8   | 14.1   | 10.8    | 12.9    | 15.0    | 14.6    |
|                               |      | in.w.g.     | 5.1    | 5.7    | 4.3     | 5.2     | 6.0     | 5.9     |

**Note:**

- \*\* To obtain gas consumption:
- (a) in l/s — divide heat input (kW) by C.V. of the gas (MJ/m<sup>3</sup>),
- (b) in ft<sup>3</sup>/h — divide heat input (Btu/h) by C.V. of the gas (Btu/ft<sup>3</sup>).
- Heat Inputs are pre-set to the highest nominal rating.

# INTRODUCTION

The IDEAL MEXICO SUPER's are a range of floor standing, conventional flued gas boilers, range rated, having outputs from 16.1 kW to 41.0 kW (55 000 Btu/h to 140 000 Btu/h).

The boilers have a cast iron heat exchanger, with an insulating blanket of aluminium foil backed fibreglass, held in place by clips, and come fully assembled, complete with casing in White Enamelled mild steel.

The boiler thermostat is located behind a sliding plastic panel on the upper front panel.

The boilers are suitable for connection to OPEN VENTED SYSTEMS ONLY.

The systems may be pumped or gravity circulating indirect DHW only, pumped central heating only, or pumped central heating combined with either a pumped or gravity circulating indirect DHW circuit.

A pump kit, which fits neatly inside the boiler casing, is available as an OPTIONAL EXTRA, FOR ALL MODELS EXCEPT THE CF.140.

Full fitting instructions are included with the kit.

A De Luxe conversion kit, containing a central heating and DHW programmer is available as an OPTIONAL EXTRA across the range and includes full fitting instructions.

## INSTALLATION REQUIREMENTS

### IMPORTANT:

This appliance range is certified by the British Standards Institute for safety and performance. It is, therefore, important that no external control devices — e.g. flue dampers, economisers, etc., — be directly connected to this appliance unless covered by these 'Installation and Servicing' instructions or otherwise recommended by Stelrad Group Ltd., in writing. If in doubt please enquire.

Any direct connection of a control device not approved by Stelrad Group Ltd., could invalidate the B.S.I. certification and the normal appliance warranty and could also infringe the Gas Safety Regulations.

### Gas Safety (Installation and Use) Regulations: 1984

It is the law that all gas appliances are installed by competent persons e.g. CORGI (identified by ) in accordance with the above regulations.

Failure to install appliances correctly could lead to prosecution.

It is in your own interest, and that of safety, to ensure that the law is complied with.

The installation of the boiler MUST also be in accordance with the latest I.E.E. Regulations, the by-laws of the Local Water Undertaking, The Building Regulations and the Building Standards (Scotland), any relevant requirements of the Local Gas Region and the Local Authority, and the relevant recommendations of the following British Standards: Codes of Practice:

- CP.331:3 Low pressure installation pipes.
- BS.6798 Installation of gas fired hot water boilers of rated input not exceeding 60 kW.
- BS.5376:2 Boilers of rated input not exceeding 60 kW.
- BS.5449:1 Forced circulation hot water systems (small bore and microbore domestic central heating systems).
- BS.5546 Installation of gas hot water supplies for domestic purposes (2nd Family Gases).
- BS.5440:1 Flues (for gas appliances of rated input not exceeding 60 kW).
- BS.5440:2 Air supply (for gas appliances of rated input not exceeding 60 kW).

Manufacturer's notes must NOT be taken, in any way, as over-riding statutory obligations.

## LOCATION OF BOILER

The floor MUST be flat and level, and of a suitable load bearing capacity.

The boiler may be fitted on a combustible floor, and insulation, other than that required by the Local Authority and Building Regulations, is NOT necessary. The location selected for the boiler MUST permit the provision of a satisfactory flue and an adequate air supply.

The location MUST also provide adequate space for servicing and air circulation around the boiler. The back of the boiler may be fitted up to the wall.

This appliance MUST NOT be installed in a bedroom and must NOT be installed in a room containing a bath or shower.

Where the installation of the boiler will be in an unusual location, special procedures may be necessary and BS.5376:2 gives detailed guidance on this aspect.

A compartment used to enclose the boiler must be designed and constructed specifically for this purpose.

An existing cupboard or compartment may be used, provided that it is modified for the purpose.

Details of essential features of cupboard/compartment design, including airing cupboard installations, are given in BS.6798. THE BOILER IS NOT SUITABLE FOR EXTERNAL INSTALLATION.

## GAS SUPPLY

The Local Gas Region should be consulted at the installation planning stage in order to establish the availability of an adequate supply of gas.

An existing service pipe must NOT be used without prior consultation with the Local Gas Region.

A gas meter is connected to the service by the Local Gas Region or a Local Gas Region Contractor.

An existing meter should be checked, preferably by the Gas Region, to ensure that the meter is adequate to deal with the rate of gas supply required.

Installation pipes should be fitted in accordance with CP.331:3.

Pipework from the meter to the boiler MUST be of adequate size.

Do NOT use pipes of a smaller size than the boiler gas connection.

Long runs of gas pipework may need a larger pipe size than the boiler gas connection.

The complete installation MUST be tested for soundness and purged as described in CP.331:3.

## FLUE SYSTEM

Detailed recommendations for fluing are given in BS.5440. The following notes are intended for general guidance.

1. The cross sectional area of the flue serving the boiler MUST be not less than the area of the flue outlet of the boiler. Table 1 details the size of the flue that MUST be used. The boiler flue outlet size is designed to BS.567, if an alternative flue pipe is used a suitable adaptor MUST be fitted.
2. Flue pipes and fittings should be constructed from one of the following materials:
  - (a) Aluminium or stainless steel, or
  - (b) cast iron — coated on inside with an acid-resistant vitreous enamel
  - (c) or other approved material.
3. If double walled flue pipe is used, it should be of a type acceptable to British Gas.

that is composed of, or lined with, a non-porous acid-resistant material. (Chimneys lined with salt glazed earthenware pipes are acceptable if the pipes comply with BS.65 and BS.540:1).

A flue pipe constructed from one of the materials in 2(a), 2(b) or 2(c) above, should form the initial connection to lined chimneys.

Where a chimney is to be used that is not composed of, or lined with, a non-porous acid-resistant material, it should be lined with a stainless steel flexible flue liner or any other liner that is acceptable to British Gas.

The number of joints MUST be kept to a MINIMUM.

5. Before connecting the boiler to, or inserting a liner into, a flue that has been previously used, the flue must be thoroughly swept clean of any soot and loose material.

If a register plate, restrictor plate, damper etc., is fitted in the flue, it MUST be removed before connecting the boiler to, or inserting a liner into, the flue.

6. The flue should terminate in accordance with the relevant recommendations given in BS.5440:1.
7. The flue MUST be fitted with a terminal.

The terminal shall be of a type which has been tested and found satisfactory by British Gas.

This terminal must NOT be installed within 600mm (2ft) of an openable window, air vent or any other ventilation opening.

#### AIR SUPPLY

Detailed recommendations for air supply are given in BS.5440:2, the following notes being intended for general guidance:

The room in which the boiler is installed MUST have, or be provided with, a permanent air vent.

This vent MUST be either direct to outside air or to an adjacent room, or internal space, which must itself have, or be provided with, a permanent air vent, of at least the same size, direct to outside air.

The MINIMUM effective area of the permanent air vent(s) required is as follows:

|        |                     |                      |
|--------|---------------------|----------------------|
| CF. 65 | 78 cm <sup>2</sup>  | (12in <sup>2</sup> ) |
| CF. 75 | 96 cm <sup>2</sup>  | (15in <sup>2</sup> ) |
| CF. 80 | 105 cm <sup>2</sup> | (16in <sup>2</sup> ) |
| CF.100 | 135 cm <sup>2</sup> | (21in <sup>2</sup> ) |
| CF.125 | 176 cm <sup>2</sup> | (27in <sup>2</sup> ) |
| CF.140 | 215 cm <sup>2</sup> | (32in <sup>2</sup> ) |

The air vent(s) must NOT have provision for closing or adjustment and should be sited to avoid risk of accidental damage or blockage.

If other methods of ventilation are envisaged, the Local Gas Region should be requested to advise before proceeding.

If the boiler is to be installed in a cupboard or compartment, permanent air vents are required (for combustion, flue dilution and cooling purposes) in the cupboard or compartment, at both high and low levels, to ensure safe and efficient combustion and ventilation.

The air vents may communicate with a room/internal space appropriately ventilated, or direct to outside air.

The MINIMUM effective areas of the permanent air vents required in the cupboard/compartment are as follows:

**Note:** Both air vents MUST communicate with the same room or internal space, or MUST both be on the same wall to outside air.

Where cupboard/compartment air vents are open to a room or internal space, the room or internal space MUST itself be provided with a permanent air vent(s) as previously specified.

CF.75

| Position of air vent | Air from room internal space | Air direct from outside |
|----------------------|------------------------------|-------------------------|
| HIGH LEVEL           | cm <sup>2</sup>              | 220                     |
|                      | in <sup>2</sup>              | 34                      |
| LOW LEVEL            | cm <sup>2</sup>              | 440                     |
|                      | in <sup>2</sup>              | 68                      |

#### CF.75

| Position of air vent | Air from room internal space | Air direct from outside |
|----------------------|------------------------------|-------------------------|
| HIGH LEVEL           | cm <sup>2</sup>              | 250                     |
|                      | in <sup>2</sup>              | 38                      |
| LOW LEVEL            | cm <sup>2</sup>              | 500                     |
|                      | in <sup>2</sup>              | 76                      |

#### CF.80

| Position of air vent | Air from room internal space | Air direct from outside |
|----------------------|------------------------------|-------------------------|
| HIGH LEVEL           | cm <sup>2</sup>              | 270                     |
|                      | in <sup>2</sup>              | 42                      |
| LOW LEVEL            | cm <sup>2</sup>              | 540                     |
|                      | in <sup>2</sup>              | 84                      |

#### CF.100

| Position of air vent | Air from room internal space | Air direct from outside |
|----------------------|------------------------------|-------------------------|
| HIGH LEVEL           | cm <sup>2</sup>              | 340                     |
|                      | in <sup>2</sup>              | 52                      |
| LOW LEVEL            | cm <sup>2</sup>              | 680                     |
|                      | in <sup>2</sup>              | 104                     |

#### CF.125

| Position of air vent | Air from room internal space | Air direct from outside |
|----------------------|------------------------------|-------------------------|
| HIGH LEVEL           | cm <sup>2</sup>              | 420                     |
|                      | in <sup>2</sup>              | 64                      |
| LOW LEVEL            | cm <sup>2</sup>              | 840                     |
|                      | in <sup>2</sup>              | 128                     |

#### CF.140

| Position of air vent | Air from room internal space | Air direct from outside |
|----------------------|------------------------------|-------------------------|
| HIGH LEVEL           | cm <sup>2</sup>              | 492                     |
|                      | in <sup>2</sup>              | 75                      |
| LOW LEVEL            | cm <sup>2</sup>              | 984                     |
|                      | in <sup>2</sup>              | 149                     |

#### Effect of an Extractor Fan

If there is any type of extract fan fitted in the premises, there is a possibility that, if adequate air inlet area from outside is not provided, spillage of the products from the

boiler tube could occur when the fan is in operation.

Where such installations occur, a spillage test, as detailed in BS.5440:1 MUST be carried out and any necessary action taken.

### Ventilators in Series

In installations requiring two ventilators to be fitted in series e.g. across a cavity wall, each should be sized in accordance with the above data.

Where there are more than two ventilators in series, each should have an area of 50% in excess of the value quoted above.

### WATER CIRCULATION SYSTEM

The appliance must NOT be used for direct hot water supply or for sealed systems.

The appliance is suitable for connection to pumped, open vent central heating systems, pumped central heating combined with pumped or gravity indirect domestic hot water supply systems, and gravity, or pumped, indirect domestic hot water supply systems. Isolating valves MUST be positioned as close to the pump as is practicable.

**Note:** The appliance is NOT suitable for gravity heating systems.

The hydraulic resistance of the boiler is given in Fig. 1

The central heating system should be in accordance with the relevant recommendations given in BS.6798 and, in addition, for small bore and microbore systems — BS.5449:1.

The domestic hot water system, if applicable, should be in accordance with the relevant recommendations of BS.5546.

Copper tubing, to BS.2871:1, is recommended for water carrying pipework.

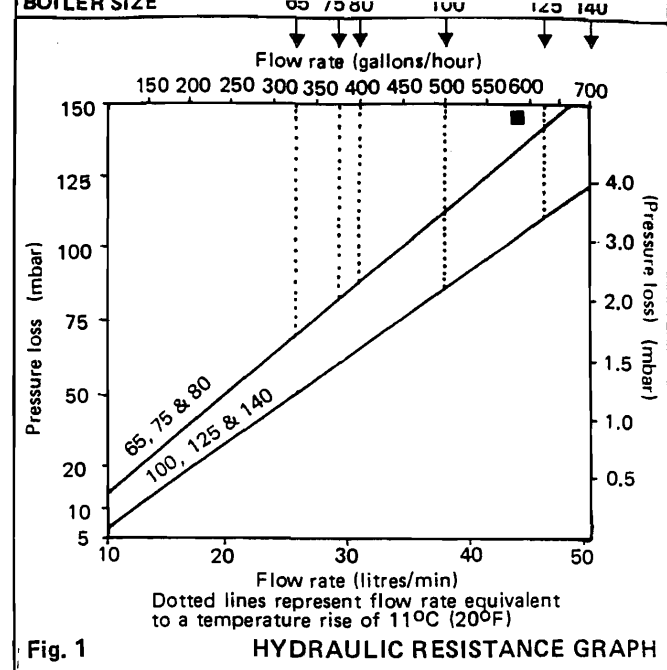
The hot water storage cylinder MUST be of the indirect type and should be preferably manufactured of copper.

The hot water cylinder, and ancillary pipework, not forming part of the useful heating surface, should be lagged to prevent heat loss and any possible freezing, particularly where pipes run through roof spaces and ventilated under floor spaces.

The boiler MUST be vented.

If venting cannot be done via a flow connection, a separate vent MUST be fitted by the Installer.

Draining taps MUST be located in accessible positions which permit the draining of the whole system, including the boiler and hot water storage vessel.



Draining taps should be at least ½in. nominal size and be in accordance with BS.2879.

Provision for the fitting of a drain tap is provided on the front face of the heat exchanger.

### ELECTRICAL SUPPLY

External wiring MUST be in accordance with the latest I.E.E. Regulations and any Local Regulations which apply.

The boiler is supplied for 240V, 50Hz ~ Single Phase. Fuse rating is 3A.

The method of connection to the mains electricity supply MUST facilitate complete electrical isolation of the boiler, preferably by the use of a fused three-pin plug and shuttered socket-outlet, both complying with the requirements of BS.1363.

Alternatively, a fused double-pole switch, or fused spur-box (having a contact separation of at least 3mm in all poles) serving only the boiler may be used.

The point of connection to the mains should be readily accessible and adjacent to the boiler.

## LEGEND:

- |                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| 1. Boiler Baseplate                     | 10. Rear Infill                           |
| 2. Gas Inlet Pipe                       | 11. Collector Hood                        |
| 3. Gas Inlet Elbow                      | 12. Cleanout Cover                        |
| 4. Gas Cock                             | 13. Front Tie Piece                       |
| 5. Combustion Chamber                   | 14. Flue Baffle                           |
| 6. Distributor Tube                     | 15. Section Alignment Rings and 'O' Rings |
| 7. Tie Rod                              | 16. Thermostat Pocket                     |
| 8. Heat Exchanger                       | 17. Burner Controls Assembly              |
| 9. Draught Diverter Back Panel Assembly | 18. Data badge                            |

Fig. 2A

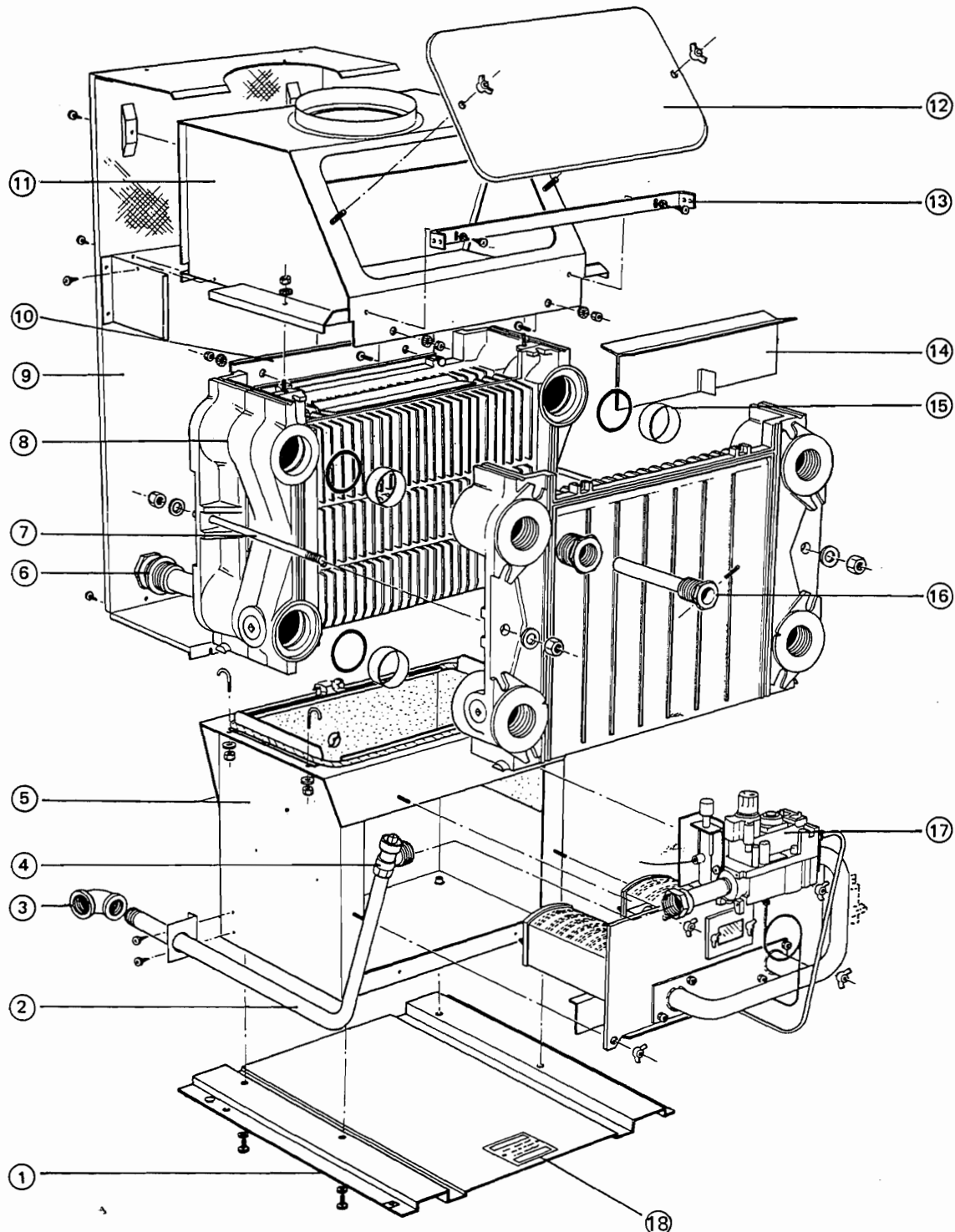
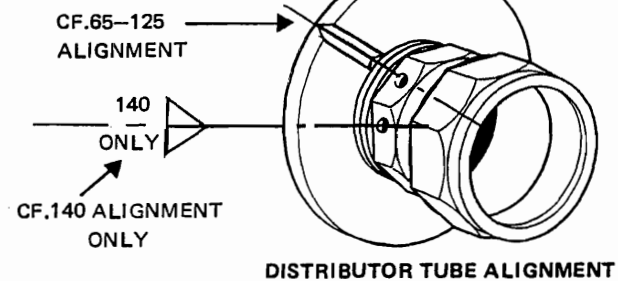


Fig. 2

(CF 65 shown)

BOILER BODY ASSEMBLY

## PACKAGING

The boiler is supplied fully assembled, and despatched in one carton.

The boiler is to be floor standing, and the space in which the boiler is to be fitted **MUST** have the following **MINIMUM** dimensions:

|        |    | CF.65-80 | CF.100 | CF.125 | CF.140 |
|--------|----|----------|--------|--------|--------|
| WIDTH  | mm | 550      | 575    | 650    | 740    |
|        | in | 21 5/8   | 22 5/8 | 25 5/8 | 29 1/8 |
| DEPTH  | mm | 535      | 535    | 600    | 750    |
|        | in | 21       | 21     | 23 5/8 | 29 1/2 |
| HEIGHT | mm | 870      | 870    | 870    | 870    |
|        | in | 34 3/4   | 34 3/4 | 34 3/4 | 34 3/4 |

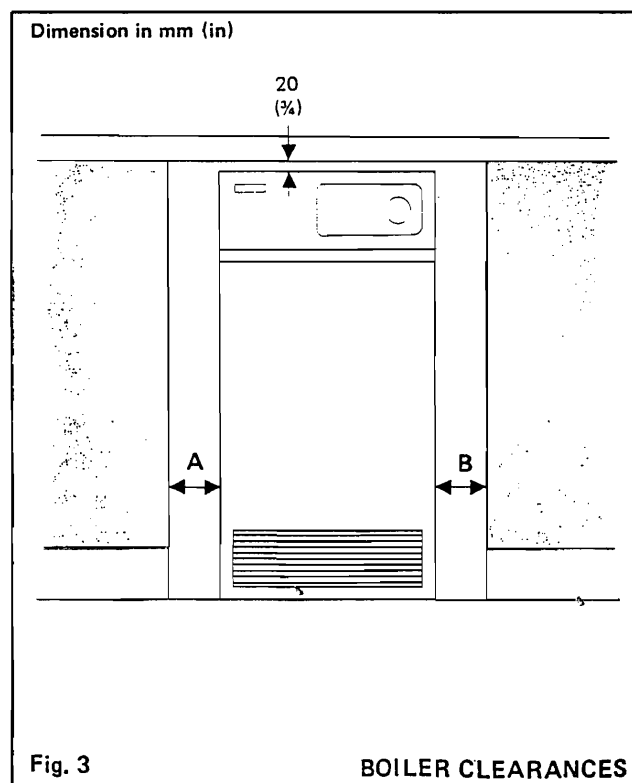
This space includes the following minimum clearances for operation and servicing:

|                                            |          | CF.65-80 | CF.100 | CF.125 | CF.140 |
|--------------------------------------------|----------|----------|--------|--------|--------|
| At the top of the boiler                   | mm       | 20       | 20     | 20     | 20     |
|                                            | in       | 3/4      | 3/4    | 3/4    | 3/4    |
| MINIMUM at ONE side of the boiler          | A or B   |          |        |        |        |
|                                            | mm       | 10       | 35     | 25     | 150    |
|                                            | in       | 3/8      | 1 3/8  | 1      | 6      |
| MINIMUM aggregate clearance — Refer Fig. 4 | A plus B |          |        |        |        |
|                                            | mm       | 110      | 135    | 210    | 300    |
|                                            | in       | 4 1/2    | 5 1/4  | 8 3/4  | 12     |

In addition, a **MINIMUM** clearance of 250mm (10in) **MUST** be available at the front of the boiler to enable the boiler to be serviced.

A **MINIMUM** clearance of 25mm (1in) should also be maintained between the flue pipe and any adjacent combustible material.

To facilitate pipework installation and removal of boiler from packaging base, the boiler casing will have to be removed.



## REMOVAL OF CASING AND PACKAGING BASE — Refer Fig. 4

Lift off the lower front panel.

Remove the upper front panel by unfastening the two screws securing it to the side panels and lifting it off the locating pegs.

Unfasten the two screws securing the plug-in connector to the control box and pull out the connector, remove the gas valve lead from the cable clip on the right hand side panel. Place the upper front panel to one side. Remove the Hardware Pack.

Unfasten the two screws holding the side panels to the boiler feet, and the two screws holding the front casing tie-piece to the casing side panels.

Pull the casing forward slightly and lift it clear of the locating pegs at the rear of the boiler feet.

Pull forward and remove.

Remove the side cardboard packing pieces.

Place the casing assembly carefully to one side, on its back, to prevent damage.

The boiler is held to the packaging base by four M6 hex. head screws, through the boiler feet assemblies into the packaging base.

Remove the front screws and slacken the rear screws in order to remove the boiler from the base.

Before placing the boiler in the selected position, any gas and water connections at the rear of the boiler should be prepared because of lack of access, especially any rear location of the distributor tube.

**Note:** Remove the flue cleanout cover and ensure that the baffles are fully inserted into the flue-ways

## WATER CONNECTIONS

—refer Fig. 5 and table 3 for all possible configurations

This appliance is **NOT** suitable for use in either a sealed system or a direct system.

All water connections are Rc1 (1in.BSP).

On the CF.125 boiler the pipework **MUST** be increased to Rc1 1/4 (1 1/4in.BSP) as soon as possible after leaving the boiler.

On the CF.140 boiler the pumped central heating pipework **MUST** be increased to 1 1/2in.BSP (42mm) and if applicable the gravity hot water pipework **MUST** be increased to 1 1/2in.BSP (35mm).

A distributor tube is supplied in the Hardware Pack, complete with a 1in.BSP male x 28mm copper compression adapter.

It is **ESSENTIAL** that the distributor tube is fitted into the pumped heating return connection on all CH, or CH and DHW, systems.

Fully Pumped systems, using more than one pump serving separate zones, **MUST** have a common return connection to the distributor tube. Isolating valves must be positioned as close to the pump as is practicable.

Screw the distributor tube into the appropriate return tapping on the boiler until the mark on the tube adapter coincides with the mark on the casting, refer Fig.2a to ensure the correct positioning of the distributor tube.

Subsequent pipework **MUST NOT** be allowed to disturb the position of the tube.

Fit the thermostat pocket and bush to the appropriate top front tapping. Refer Table 3. Plug off remaining unwanted front tappings.

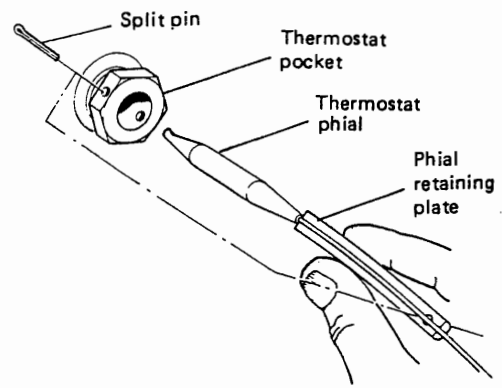
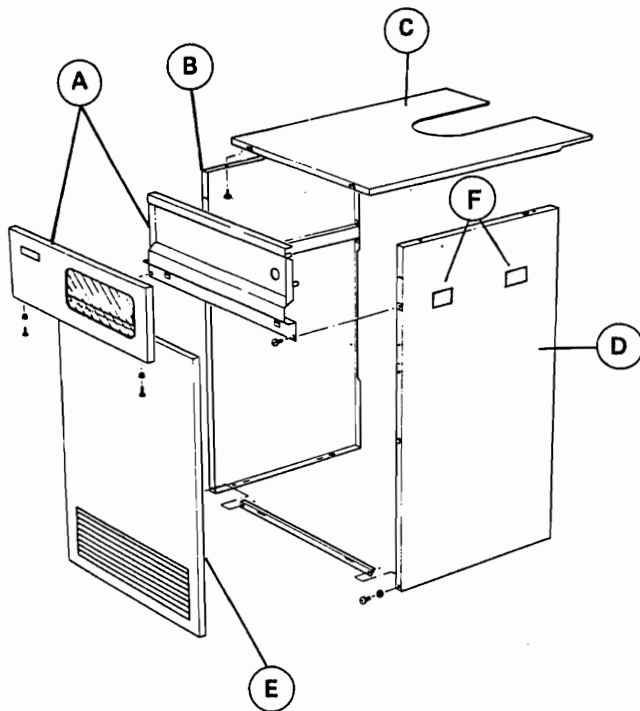


Fig. 4A

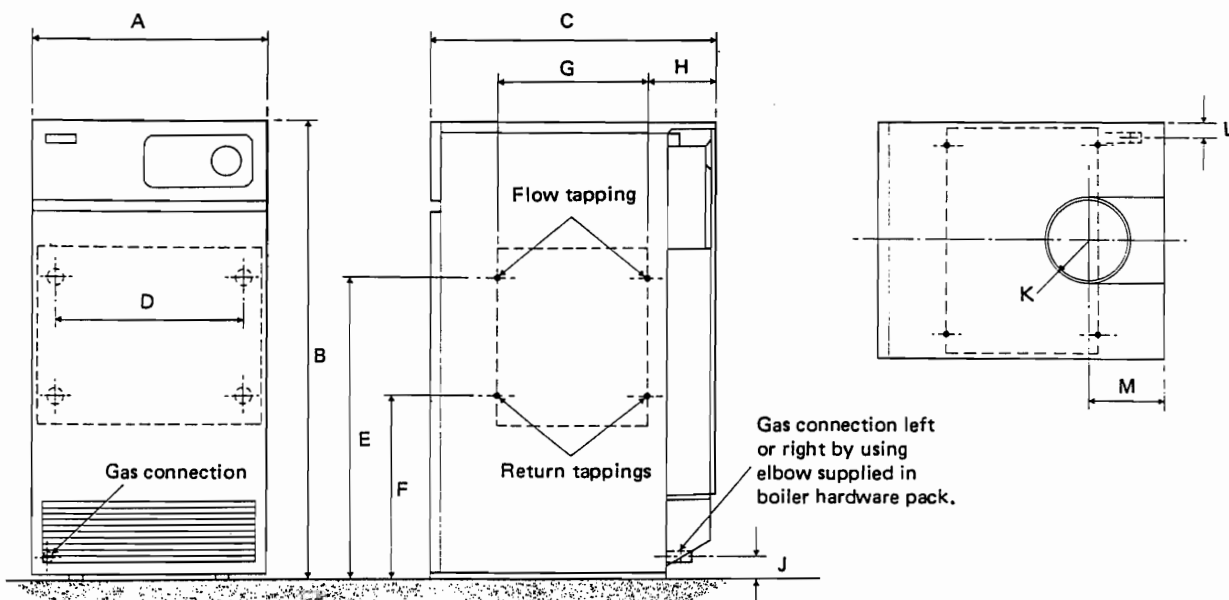
PHIAL and SPACER

LEGEND:

- A. Upper front panel
- B. L.H. side panel
- C. Top panel
- D. R.H. side panel
- E. Lower front panel
- F. Cable strap

Fig. 4

CASING ASSEMBLY



| BOILER SIZE | Dimn A               | B             | C             | D             | E         | F             | G             | H            | J         | K           | L           | M            |
|-------------|----------------------|---------------|---------------|---------------|-----------|---------------|---------------|--------------|-----------|-------------|-------------|--------------|
| CF 65       | mm 440<br>in. 17 3/8 | 850<br>33 1/2 | 533<br>21     | 358<br>14 1/8 | 560<br>22 | 335<br>13 1/4 | 218<br>8 5/8  | 122<br>4 3/4 | 50<br>2   | 60<br>2 3/8 | 28<br>1 1/8 | 120<br>4 3/4 |
| CF 75       | mm 440<br>in. 17 3/8 | 850<br>33 1/2 | 533<br>21     | 358<br>14 1/8 | 560<br>22 | 335<br>13 1/4 | 218<br>8 5/8  | 122<br>4 3/4 | 50<br>2   | 60<br>2 3/8 | 28<br>1 1/8 | 120<br>4 3/4 |
| CF 80       | mm 440<br>in. 17 3/8 | 850<br>33 1/2 | 533<br>21     | 358<br>14 1/8 | 560<br>22 | 335<br>13 1/4 | 218<br>8 5/8  | 122<br>4 3/4 | 50<br>2   | 75<br>3     | 28<br>1 1/8 | 134<br>5 1/4 |
| CF 100      | mm 440<br>in. 17 3/8 | 850<br>33 1/2 | 533<br>21     | 358<br>14 1/8 | 560<br>22 | 335<br>13 1/4 | 291<br>11 1/2 | 122<br>4 3/4 | 50<br>2   | 75<br>3     | 28<br>1 1/8 | 134<br>5 1/4 |
| CF 125      | mm 440<br>in. 17 3/8 | 850<br>33 1/2 | 600<br>23 5/8 | 358<br>14 1/8 | 560<br>22 | 335<br>13 1/4 | 363<br>14 1/4 | 122<br>4 3/4 | 50<br>2   | 86<br>3 3/8 | 28<br>1 1/8 | 148<br>5 7/8 |
| CF 140      | mm 440<br>in. 17 3/8 | 850<br>33 1/2 | 750<br>29 1/2 | 358<br>14 1/8 | 560<br>22 | 335<br>13 1/4 | 436<br>17 1/8 | 202<br>8.0   | 50<br>2.0 | 86<br>3 3/8 | 26<br>1.0   | 117<br>4 5/8 |

Fig. 5

DIMENSIONS

Table 3 FULLY PUMPED SYSTEMS CF.65-125

|                                              | CHOSEN PUMP POSITION |        | CONNECTIONS AS VIEWED FROM FRONT |        |              |        | THERMOSTAT POSITION |    |
|----------------------------------------------|----------------------|--------|----------------------------------|--------|--------------|--------|---------------------|----|
|                                              |                      |        | Front Section                    |        | Back Section |        | Front Section       |    |
|                                              | Flow                 | Return | Flow                             | Return | Flow         | Return | Top                 |    |
| Pump fitted external to boiler               | *                    | *      |                                  |        | LH           | LH     | LH                  |    |
|                                              | *                    | *      |                                  |        | LH           | RH     | LH                  |    |
|                                              | *                    | *      |                                  |        | RH           | RH     | RH                  |    |
|                                              | *                    | *      |                                  |        | RH           | LH     | RH                  |    |
| Pump fitted inside boiler jacket             | 65, 75 and 80        | *      |                                  | LH     | LH           |        |                     | RH |
|                                              |                      | *      |                                  | LH     | RH           |        |                     | RH |
|                                              |                      | *      |                                  | LH     |              |        | LH                  | RH |
|                                              |                      | *      |                                  | LH     |              |        | RH                  | RH |
|                                              | 65, 75, 80 ONLY      | *      |                                  | RH     | RH           |        |                     | LH |
|                                              |                      | *      |                                  | RH     | LH           |        |                     | LH |
|                                              |                      | *      |                                  | RH     |              |        | RH                  | LH |
|                                              |                      | *      |                                  | RH     |              |        | LH                  | LH |
|                                              | 65, 75 & 80 ONLY     | *      | *                                |        | LH           | LH     |                     | RH |
|                                              |                      | *      | *                                |        | LH           | RH     |                     | RH |
|                                              |                      | *      | *                                |        | RH           | LH     |                     | LH |
|                                              |                      | *      | *                                |        | RH           | RH     |                     | LH |
| CF.140 ONLY (Pump fitted external to boiler) |                      |        |                                  |        |              |        |                     |    |
|                                              | *                    | *      |                                  |        | LH           | LH     | LH                  |    |
|                                              | *                    | *      |                                  |        | RH           | RH     | RH                  |    |

Table 4 - GRAVITY DOMESTIC HOT WATER AND PUMPED CENTRAL HEATING - CF.65-125

|                                              | CHOSEN PUMP POSITION |        | CONNECTION AS VIEWED FROM FRONT |        |      |        |              |        |      |        | THERMOSTAT POSITION |    |
|----------------------------------------------|----------------------|--------|---------------------------------|--------|------|--------|--------------|--------|------|--------|---------------------|----|
|                                              |                      |        | Front Section                   |        |      |        | Back Section |        |      |        | Front Section       |    |
|                                              |                      |        | CH                              |        | DHW  |        | CH           |        | DHW  |        | Top                 |    |
|                                              | Flow                 | Return | Flow                            | Return | Flow | Return | Flow         | Return | Flow | Return |                     |    |
| Pump fitted external to boiler               | *                    | *      |                                 |        |      |        | LH           | LH     | RH   | RH     | LH                  |    |
|                                              | *                    | *      |                                 |        |      |        | LH           | RH     | RH   | LH     | LH                  |    |
|                                              | *                    | *      |                                 |        |      |        | RH           | RH     | LH   | LH     | RH                  |    |
|                                              | *                    | *      |                                 |        |      |        | RH           | LH     | LH   | RH     | RH                  |    |
| Pump fitted inside boiler jacket             | 65,75 & 80           | *      |                                 | LH     | LH   |        |              |        |      | LH     | LH                  | RH |
|                                              |                      | *      |                                 | LH     | RH   |        |              |        |      | LH     | LH                  | RH |
|                                              |                      | *      |                                 | LH     |      |        |              |        | RH   | LH     | LH                  | RH |
|                                              | 65,75, 80 ONLY       | *      |                                 | RH     | LH   |        |              |        |      | RH     | RH                  | LH |
|                                              |                      | *      |                                 | RH     | RH   |        |              |        |      | RH     | RH                  | LH |
|                                              |                      | *      |                                 | RH     |      |        |              |        | LH   | RH     | RH                  | LH |
|                                              | 65, 75 & 80          | *      | *                               |        | LH   |        |              | LH     |      | RH     | RH                  | RH |
|                                              |                      | *      | *                               |        | LH   |        |              | RH     |      | LH     | LH                  | RH |
|                                              |                      | *      | *                               |        | RH   |        |              | RH     |      | LH     | LH                  | LH |
|                                              | 65,75,80 ONLY        | *      | *                               |        | RH   |        |              | LH     |      | RH     | RH                  | LH |
| CF.140 ONLY (Pump fitted external to boiler) |                      |        |                                 |        |      |        |              |        |      |        |                     |    |
|                                              | *                    | *      |                                 |        |      |        | LH           | LH     | RH   | RH     | LH                  |    |
|                                              | *                    | *      |                                 |        |      |        | RH           | RH     | LH   | LH     | RH                  |    |

**FULLY PUMPED SYSTEMS**

All of the possible configurations are shown in Table 3. It should be noted that, for correct boiler performance, only those connections shown should be used.

**GRAVITY DOMESTIC HOT WATER AND PUMPED CENTRAL HEATING**

In a gravity domestic hot water and pumped central heating system, SEPARATE Flow and Return connections are used for EACH service.

The use of a cylinder thermostat is RECOMMENDED.

Gravity pipework and connections MUST be at least 28mm, (35mm for the CF.140).

All of the possible configurations are shown in Table 4.

It should be noted that, for correct boiler performance, only those connections shown should be used.

To use Tables 3 and 4, decide whether the pump is to be

fitted internally or externally, i.e. inside the casing or outside the casing, and whether the system is to have a pump on the flow or the return. (**Note:** the pump cannot be fitted inside the casing on the CF.140).

Once these factors are known, it is then a simple matter to find the possible variations available for these parameters.

The schematic pipework graph, following in Fig. 6 has been calculated on the assumption that NOT MORE than eight elbows are used in the gravity loop, including entry to the boiler. For each extra elbow, in excess of eight, (R) MUST be reduced by 300mm (12in), or (H) increased by 100mm (4in).

The pipe runs for gravity circulation should be planned with reference to the diagram and graph illustrated by Fig. 6.

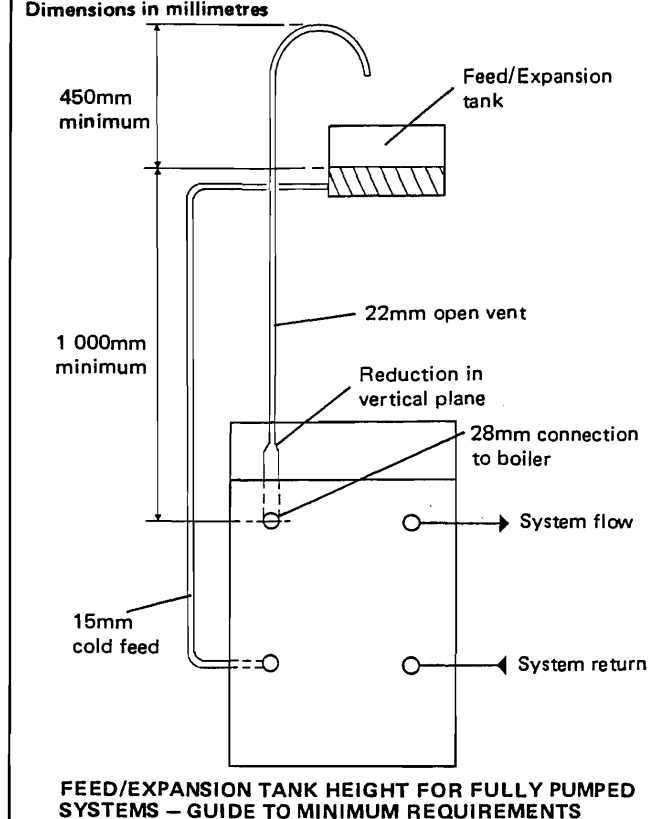
Whatever value is selected for (R), i.e. the horizontal distance between the centre line of the cylinder and the boiler tappings used - measured along the pipe run, the value of (H), i.e. the

vertical distance between the top of the boiler and the base of the cylinder, MUST be at least that indicated by the graph.

# **GUIDE TO MINIMUM REQUIREMENTS – FEED/EXPANSION TANK HEIGHT FOR FULLY PUMPED SYSTEMS –**

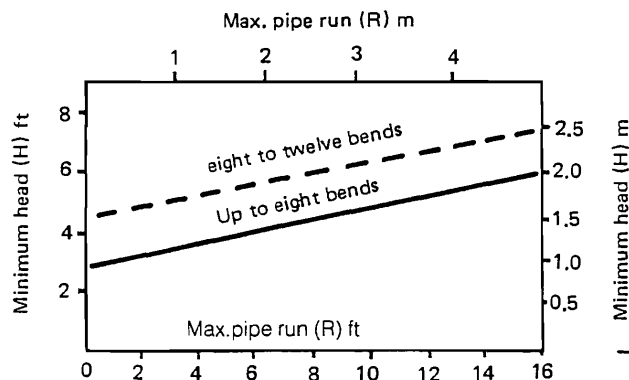
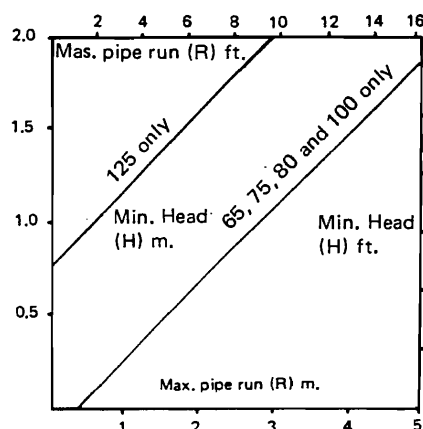
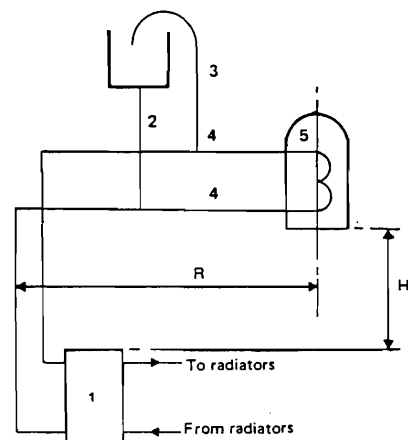
With reference to the associated diagram, the following assumptions and conditions apply.

1. Open vent and cold feed connections are made to the boiler flow/return tappings according to the options shown in Tables 3 and 4.
2. The boiler is assumed to be the highest point of the circulating system.
3. The circulating pump is positioned on the FLOW, and the vertical distance, between the pump and the feed/ expansion tank, complies with the pump manufacturer's minimum requirements – to avoid cavitation. Should these conditions not apply, either lower the pump position, or raise the feed/expansion tank above the minimum requirements of Stelrad Group.
4. The water velocity through the boiler flow/return pipes is assumed to be below 1 m/s (3ft/s), whilst the pump flow rate is set to provide a temperature difference of 11°C (20°F) across the boiler flow/return, at design input.
5. This information is intended as a GUIDE ONLY and cannot take into account instantaneous changes in head caused by the operation of motorised valves, pump, etc. Due allowance MUST be made if surging is liable to occur. If in any doubt, contact Stelrad Group.



CF 65-CF 125

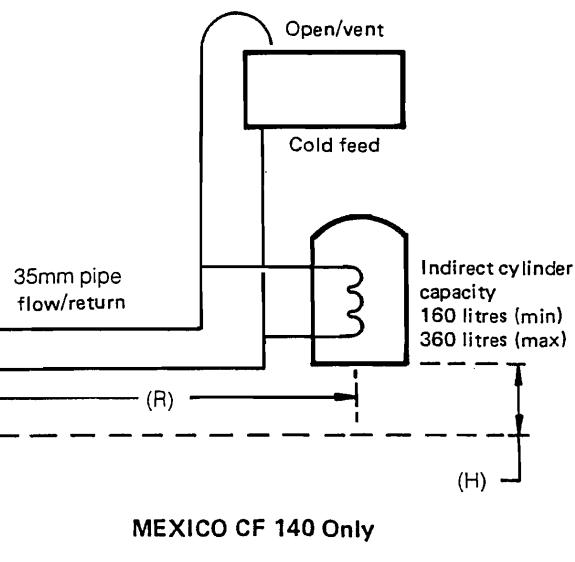
1. Heat exchanger
2. Cold feed
3. Vent 22mm pipe
4. 28mm pipe
5. Cylinder



1.0m MINIMUM HEIGHT from Boiler Tappings

To rads.

From rads.



**COMBINED, INDIRECT, GRAVITY, DOMESTIC  
HOT WATER AND PUMPED CENTRAL HEATING  
(Minimum requirements)**

Fig. 6

## GAS CONNECTION

The gas inlet to the boiler is at the rear of the boiler and an elbow is supplied in the Hardware Pack to allow connection from right or left, — for inlet size refer Table 1.

A MINIMUM dynamic inlet pressure of 20.0 mbar (8in.w.g.) MUST be available at the boiler inlet.

## REPLACING THE BOILER CASING

After the pipework installation has been completed, the casing should be refitted.

Offer up the casing assembly so that the side panels drop over the location pegs at the rear of the boiler feet, push casing back.

ENSURE that the electrical/gas valve lead is not trapped and screw down each side panel to the front of the boiler feet. Screw the casing tie piece to the casing side panels.

## ELECTRICAL CONNECTION

**The appliance MUST be efficiently earthed.**

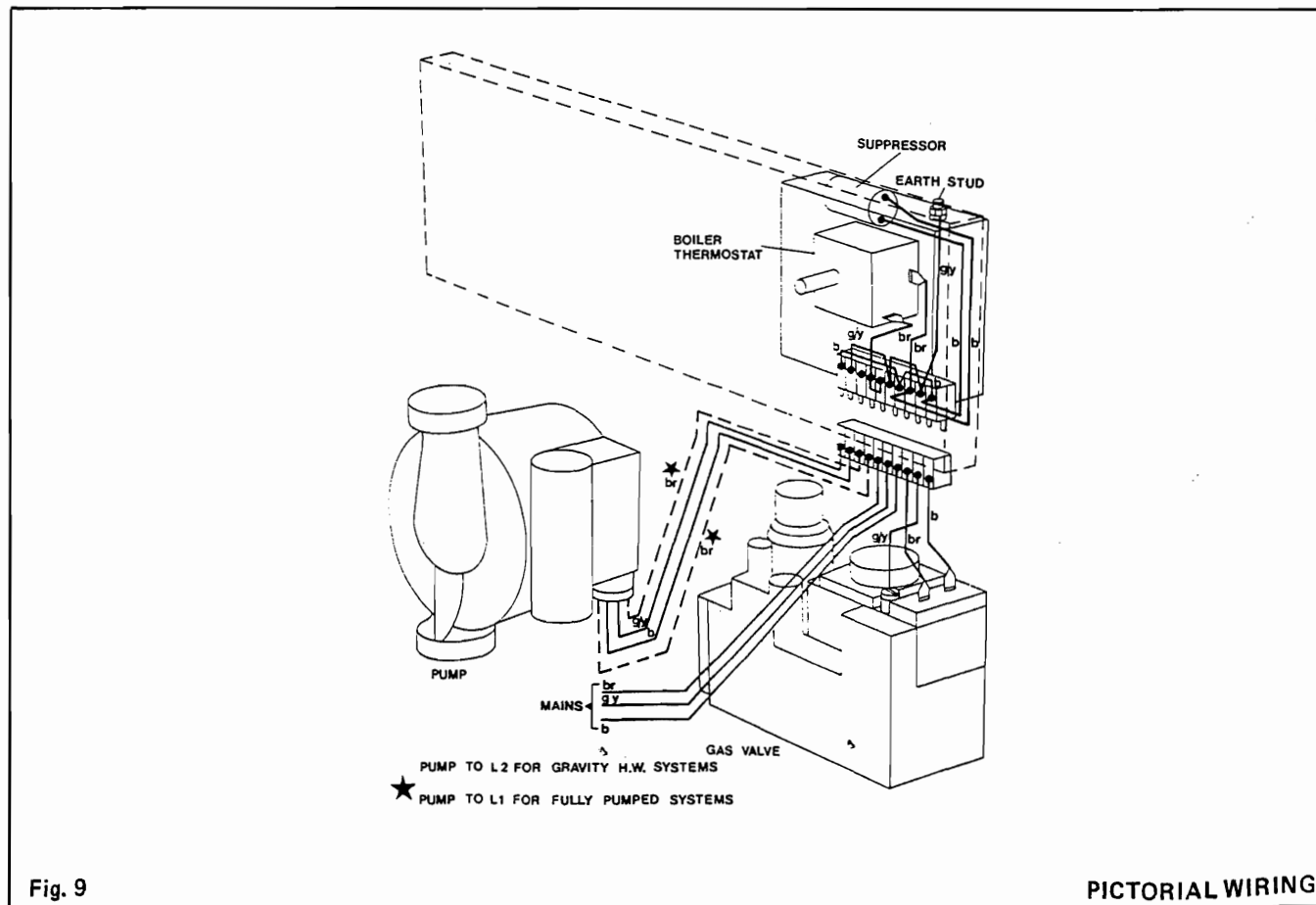
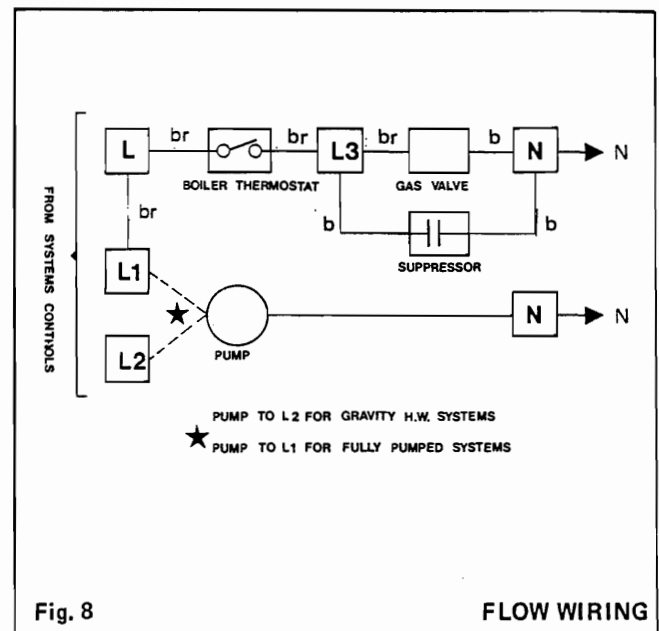
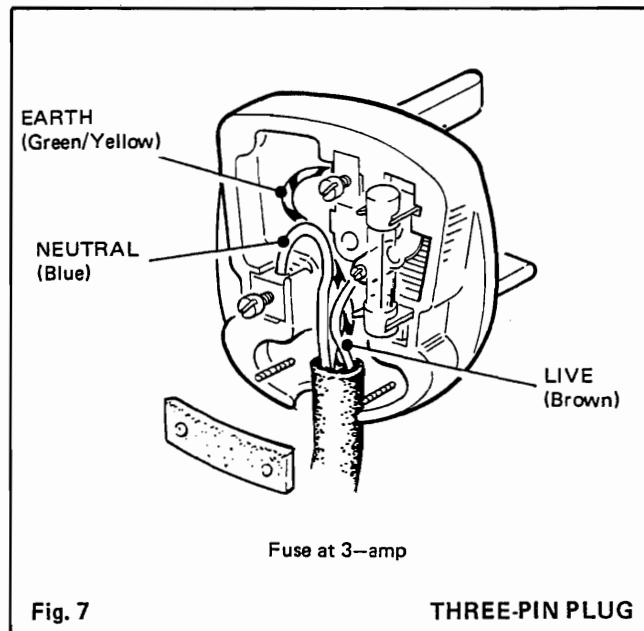
A mains supply of 240V ~ 50Hz AC Single Phase is required. All external controls and associated wiring MUST be suitable for mains voltage.

Wiring should be in three-core PVC insulated cable, NOT less than 0.75mm<sup>2</sup> (24 x 0.2mm) to BS.6500:1984 Table 16.

Wiring external to the boiler MUST be in accordance with the latest I.E.E. Regulations and any Local Regulations which apply.

The input cable conductors, between the cord anchorage and the terminals, MUST be such that the current carrying conductors become taut before the earthing conductors should the cable slip out of the anchorage.

The supply connection may be made via a removable plug



to a shuttered socket-outlet and, should such a plug be used for connection to the mains, it **MUST** be of 3-pin type, wired as shown in Fig. 7, fused at 3 amp and complying with the requirements of BS.1363.

Wiring within the boiler casing **MUST** be neatly secured with the cable straps provided and **MUST NOT** be allowed to touch the burner front plate or the cleanout cover and collector hood.

### REPLACING THE UPPER FRONT PANEL

Replace the plug-in connector into the control box and fix with the two screws previously removed.

Offer up the upper front panel over the top locating pegs and fasten it to the side panels with the two No. 8 pozi screws.

**ENSURE** that the gas valve lead is replaced in the cable clip on the right hand side panel.

Insert the thermostat phial and phial retaining bracket into the thermostat pocket refer to Fig. 4a taking care **NOT** to kink the thermostat capillary as it is unwound, and secure it with the split pin supplied in the Hardware Pack, making sure the split pin passes through the hole in the retaining bracket.

### INTERNAL WIRING

The internal wiring of the control box is shown in Figs. 8 and 9.

A wiring diagram is also contained in the Lighting Instruction Plate inside the lower front panel of the boiler.

### EXTERNAL CONTROLS

The wiring diagrams illustrated in Figs. 10–16 cover the systems most likely to be fitted to this appliance.

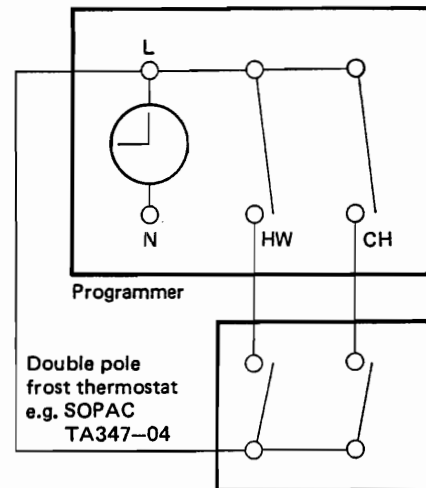
For wiring external controls to the IDEAL MEXICO SUPER CF boiler models, reference should be made to the system wiring diagrams supplied by the relevant Manufacturer, in conjunction with the wiring diagrams shown in Figs. 8 and 9.

Difficulty in wiring up should not arise, providing the following directions are observed :

1. Controls that switch the system **ON** and **OFF**, e.g. a time switch, **MUST** be wired in series in the live mains lead to the boiler.
2. Controls that over-ride an **ON/OFF** control, e.g. a frost thermostat, **MUST** be wired into the mains lead in parallel with the control(s) to be over-ridden.
3. Controls that switch the circulating pump only **ON** and **OFF**, e.g. a room thermostat, **MUST** be wired in series

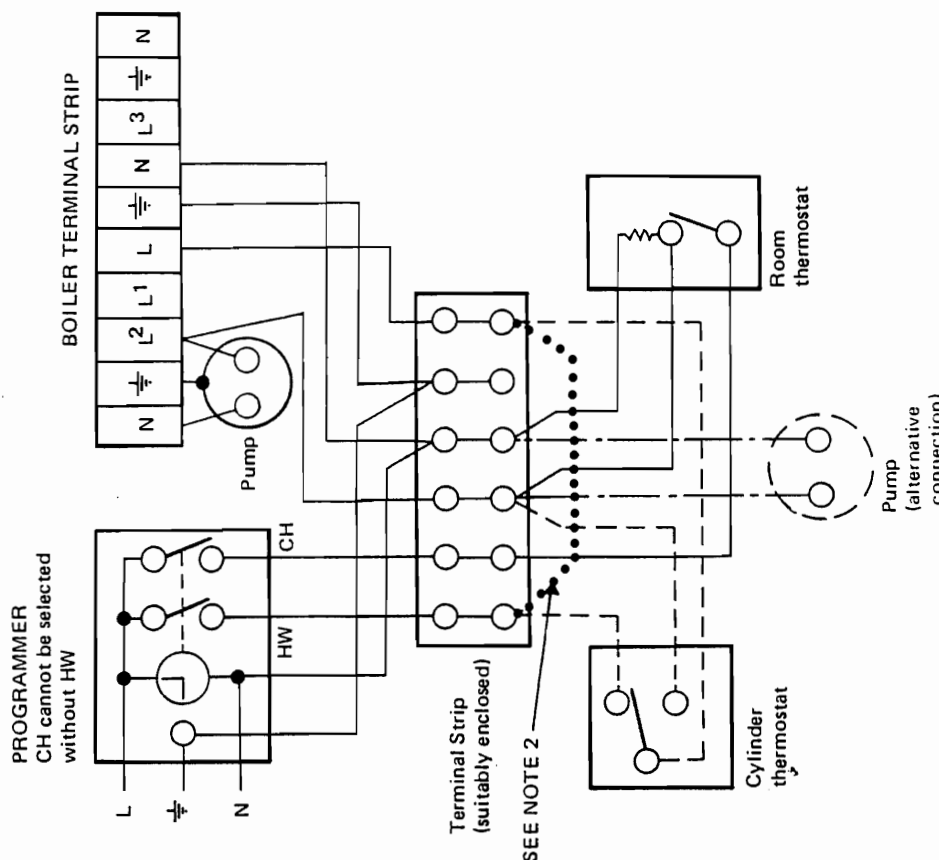
**NOTE:** The frost thermostat should be wired to the programmer as shown, without disturbing other wiring.

#### FROST PROTECTION



**WIRING DIAGRAM —  
Double Pole Frost Thermostat  
Wired to Programmer**

**Fig. 10**

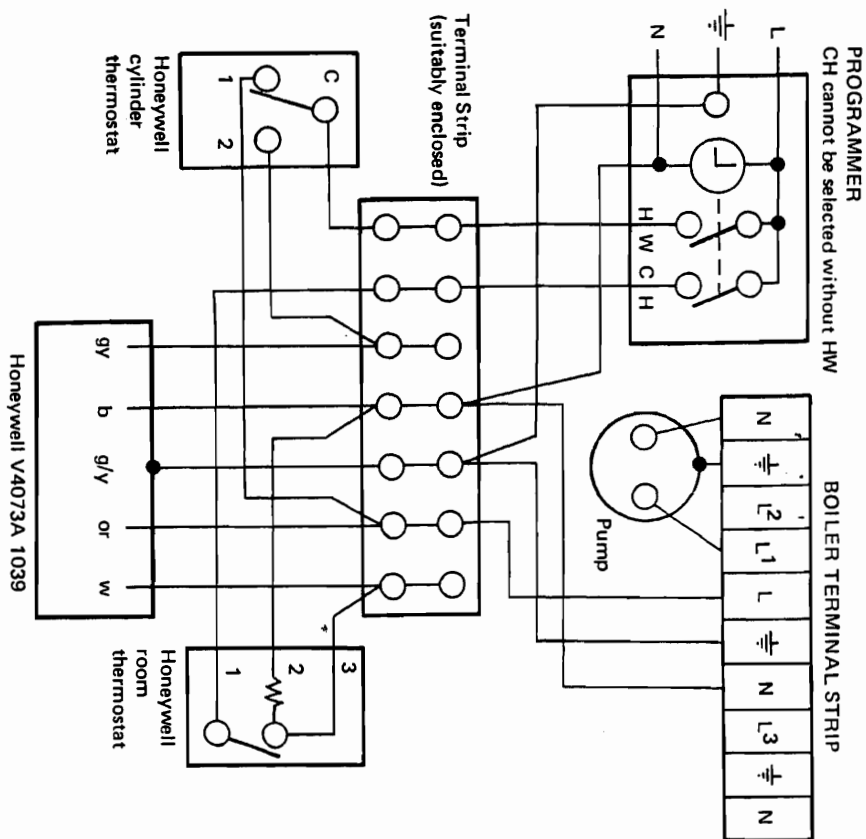


#### NOTES:

1. SOME EARTH WIRES ARE OMITTED FOR CLARITY. ENSURE PROPER EARTH CONTINUITY WHEN WIRING.
2. Should the cylinder thermostat not be used, delete all dashed wiring to it, but add dotted link as shown.
3. An alternative pump connection is shown by chain dotted lines.

**Fig. 11**

**WIRING DIAGRAM  
Gravity HW, Pumped CH System**



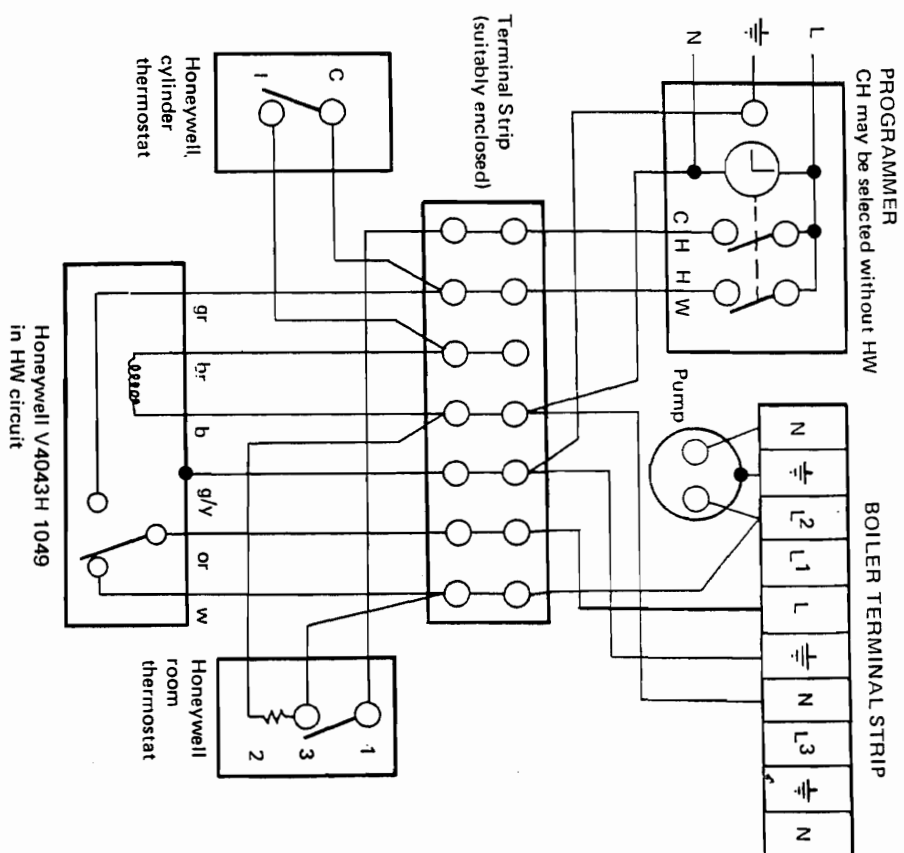
WIRING DIAGRAM —  
Fully Pumped System

- NOTES:**
1. SOME EARTH WIRES ARE OMITTED FOR CLARITY.  
ENSURE PROPER EARTH CONTINUITY WHEN WIRING.
  2. Numbering of terminals on thermostats applies only to the Manufacturer mentioned.
  3. This is a fully controlled system — set the boiler thermostat to MAXIMUM.

**LEGEND:**

gy — grey  
b — blue  
g/y — green/yellow  
or — orange  
w — white

Fig. 12



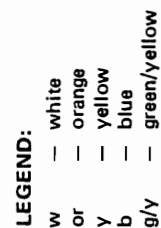
WIRING DIAGRAM  
Gravity HW, Pumped CH System

- NOTES:**
1. SOME EARTH WIRES ARE OMITTED FOR CLARITY.  
ENSURE PROPER EARTH CONTINUITY WHEN WIRING.
  2. Numbering of terminals on thermostats applies only to the Manufacturer mentioned.
  3. This is a fully controlled system — set the boiler thermostat to MAXIMUM.

**LEGEND:**

gy — grey  
br — brown  
b — blue  
g/y — green/yellow  
or — orange  
w — white

Fig. 13

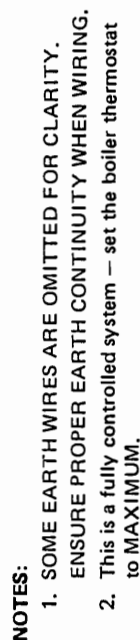


**NOTES:**

1. **SOME EARTH WIRES ARE OMITTED FOR CLARITY.**  
**ENSURE PROPER EARTH CONTINUITY WHEN WIRING.**
2. **Numbering of terminals on thermostats applies only to the Manufacturer mentioned.**
3. **This is a fully controlled system – set the boiler thermostat to MAXIMUM.**

## WIRING DIAGRAM

### Fully Pumped System



## WIRING DIAGRAM

### Fully Pumped System

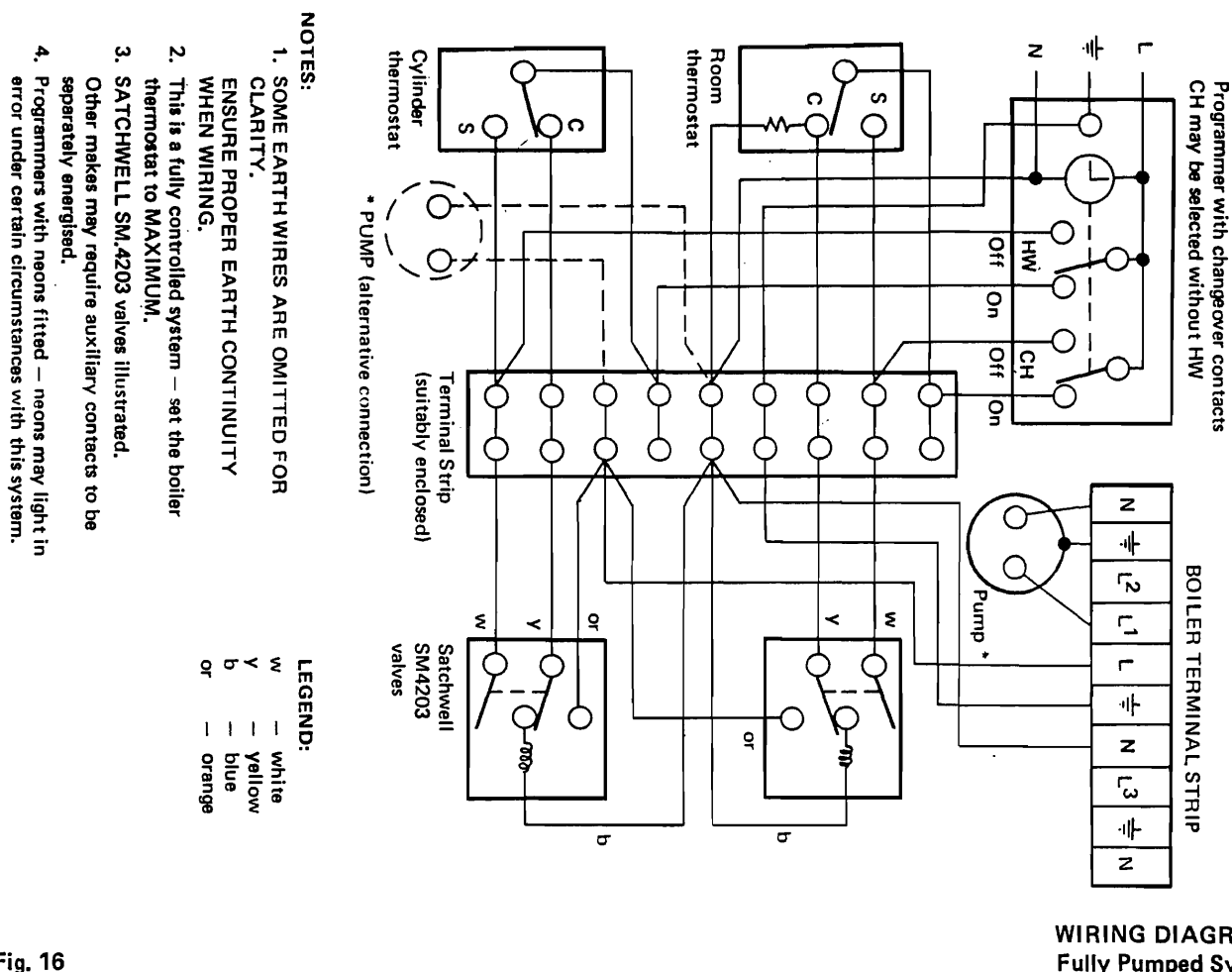


Fig. 16

with the pump in the live pump lead.

4. If a proprietary system is used, follow the instructions supplied by the Manufacturers.

Advice on required modifications to the wiring may be obtained from the component Manufacturers.

#### Note:

1. Connections between the frost thermostat and the time control should be made without disturbing other wiring.
2. The frost thermostat should be sited in a cool place in the house, but where it can sense heat from the system.

### COMMISSIONING AND TESTING

In the event of an electrical fault after the installation of the appliance, preliminary electrical system checks shall be carried out i.e. earth continuity, polarity and resistance to earth — as described in the British Gas Multimeter book.

#### Electrical Installation

Checks to ensure electrical safety should be carried out by a competent person.

#### Gas Installation

The whole of the gas installation, including the meter, should be inspected and tested for soundness, and should be purged in accordance with the recommendations of CP.331:3.

Purging air from the gas installation may be expedited by removing the cabinet front panel of the boiler, loosening the union on the inlet gas cock and purging until gas is smelled.

Retighten the union and check for gas soundness.

#### WARNING:

Whilst effecting the required gas soundness test and

purging air from the gas installation, open all windows and doors, extinguish naked lights, and do NOT smoke.

#### Water Circulating System

The whole of the system should be thoroughly flushed out with cold water WITHOUT the pump in position.

Ensure that all valves are OPEN.

The system should be filled and with the pump operating air locks cleared.

Check for water soundness.

### INITIAL LIGHTING INSTRUCTIONS

— Refer Fig. 17

The inlet gas cock (H) MUST have been OFF for at least three minutes before initiating the lighting sequence.

Check that ALL drain cocks are CLOSED and that stop valves in the flow and return lines are OPEN.

Check that the inlet gas cock is ON and that the boiler thermostat control knob is OFF.

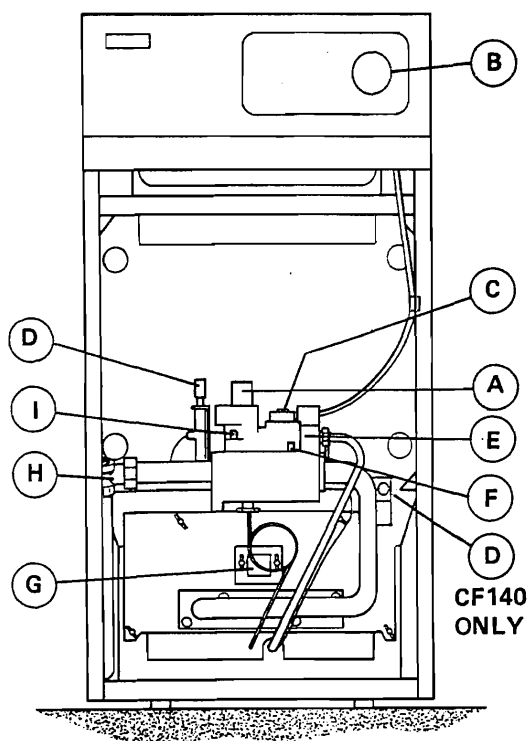
Loosen the screw in the burner pressure test nipple (F) and connect a gas pressure gauge via a flexible tube.

Turn the gas control knob (A) CLOCKWISE until resistance is felt and then release it.

Push in and hold the gas control knob, press and release the piezo unit button (D) repeatedly, until the pilot is seen to light through the sight glass. Hold the gas control knob depressed for 20 seconds after the pilot burner has ignited.

Should the pilot light go out at this, or any other, stage, turn the gas control knob CLOCKWISE and release it.

Wait for three minutes and then repeat the procedure but wait longer than 20 seconds before releasing the gas control knob.



#### LEGEND:

- |                             |                               |
|-----------------------------|-------------------------------|
| A. Gas Control Knob         | F. Burner Pressure Test Point |
| B. Boiler Thermostat Knob   | G. Sight Glass                |
| C. Pressure Adjusting Screw | H. Main Gas Cock              |
| D. Piezo Igniter            | I. Inlet Pressure Test Point  |
| E. Pilot Adjusting Screw    |                               |

Fig. 17

#### BOILER CONTROLS

The pilot flame is factory pre-set and should cover 13mm (½in) of the thermocouple tip. If adjustment is necessary, turn the pilot adjuster screw (E) ANTI-CLOCKWISE to INCREASE the flame and CLOCKWISE to DECREASE it. Check that the electricity supply, and ALL external controls are ON.

Turn the boiler thermostat knob (B) to position 6 — the boiler will then light.

Operate the boiler for ten minutes to stabilise the burner temperature.

Test for gas leaks around boiler gas components, using leak detection fluid. To facilitate pilot burner gas connection access, remove burner assembly, turn upside down and re-connect gas union with burner assembly facing forwards OUTSIDE the combustion chamber.

Check the burner setting pressure against the values quoted in Table 2.

If the burner setting pressure requires adjusting, remove the protective cap and turn the pressure adjusting screw (C) — CLOCKWISE to INCREASE the pressure and ANTI-CLOCKWISE to DECREASE it.

A suitable screwdriver should ALWAYS be used for adjustment to avoid damaging the plastic head on the screw. Replace the protective cap.

Remove the gas pressure gauge and tube, and retighten the sealing screw in the pressure test nipple.

Check for gas leaks around test nipple.

Stick the indicator arrow supplied in the hardware pack to the data badge on the bottom front of the base plate indicating the intended burner setting pressure/heat input that the appliance has been set to.

If the piezo unit should not work for any reason, the boiler may be lit by means of a paper spill.

Position a lighted spill near the pilot burner.

Push in the gas control knob and hold it depressed until the pilot burner lights — hold down the knob for a further 20 seconds.

Carry out the subsequent lighting procedure detailed in the foregoing instructions.

Any fault on the piezo unit MUST be rectified.

#### GENERAL CHECKS

Make the following checks for correct operation :

1. Turn the boiler thermostat OFF and ON and check that the main burner is extinguished and relit in response.
2. Check the operation of the flame failure device in the gas control.

The flame failure device MUST cut off the gas to the burner within 60 seconds.

With the burner alight again, turn the gas control knob CLOCKWISE until resistance is felt and then release it.

The burner and pilot flames should shut down immediately.

**Note:** A latch in the gas control provides a safe delay period before the boiler can be relit.

3. Check the appearance of the pilot flame and, if necessary, make appropriate adjustment by use of the pilot adjuster screw — (E), Fig. 17.
4. Check there is no spillage of combustion products from the boiler draught diverter, by carrying out a spillage test, as detailed in BS.5440:1.
5. The correct operation of the programmer, and all other system controls, should be proved.

Operate each control separately and check that the main burner or circulating pump, as the case may be, responds.

6. With the system HOT, examine ALL water connections for soundness.

Then turn OFF the gas, electricity and water supplies to the appliance and drain down whilst the system is still hot — in order to complete the flushing process.

Refill and vent the system and again check for water soundness.

7. Replace the lower front panel.
8. Finally, set the controls to the User's requirements.

The temperatures quoted below are approximate and may vary between installations.

| KNOB SETTING | FLOW TEMPERATURE |     |
|--------------|------------------|-----|
|              | °C               | °F  |
| 1            | 54               | 130 |
| 2            | 60               | 140 |
| 3            | 66               | 150 |
| 4            | 71               | 160 |
| 5            | 77               | 170 |
| 6            | 82               | 180 |

#### HANDING OVER

After completion of installation and commissioning the system, the Installer should hand over to the Householder by the following actions:

1. Hand the User's Instructions publication to the Householder and explain his/her responsibilities under the Gas Safety Regulations, 1972.
2. Draw attention to the Lighting Instruction Plate, affixed to the inside of the front panel

3. Explain, and demonstrate, the lighting and shutting down procedures.
  4. The operation of the boiler and the use, and adjustment, of ALL system controls, should be fully explained to the Householder, to ensure the greatest possible fuel economy, consistent with household requirements of both heating and hot water consumption.
- Advise the User of the precautions necessary to prevent damage to the system, and to the building, in the event of

- the system remaining inoperative during frost condition.
5. Explain the function and the use of the boiler thermostat and external controls.
6. Explain, and demonstrate, the function of time and temperature controls, radiator valves etc., in the economic use of the system.
7. Stress the importance of regular servicing by the Gas Region, or by a qualified Heating Engineer.

## SERVICING

### WARNING:

**ALWAYS turn OFF the gas supply at the gas cock, and switch OFF and DISCONNECT the electricity supply to the appliance BEFORE SERVICING.**

A COMPREHENSIVE SERVICE SHOULD BE CARRIED OUT AT LEAST ONCE A YEAR:

THE USER IS ADVISED TO MAKE A CONTRACT WITH THE LOCAL GAS REGION OR A QUALIFIED HEATING ENGINEER. AFTER ANY SERVICING OR REPLACEMENT OF COMPONENTS ALWAYS TEST FOR GAS SOUNDNESS AND CARRY OUT FUNCTIONAL CHECKS.

### MAIN BURNER

Lift off the lower front panel from the boiler casing. Undo the screw securing the grey plastic electrical cover onto the gas valve and lift it off.

Undo the earth connection and pull off the two connectors to the gas valve, taking care NOT to lose the earth screw and washer.

Undo the union inlet gas cock.

Remove the four wing nuts securing the burner front plate and remove the burner assembly complete from the boiler.

Remove from one of the burners the two nuts and washers securing the burner end cap, and remove it and the gasket carefully.

NOTE that these end cap fastenings also retain the burner body, so take care NOT to put a strain on the pilot burner gas pipe, or burner air guide baffle fixed to the underside of the burner bodies, whilst cleaning the burners.

Pull out the gauze from underneath the burner flame strip.

Clean the gauze to remove any deposits of lint or fluff, and brush off any deposits from the burner flame strip.

**Note:** Brushes with metallic bristles must NOT be used.

Ensure that the flame ports are unobstructed and remove any debris that may have collected inside the burner body.

Replace the gauze carefully between the burner flame strip and the gauze retaining strips inside the burner. Replace the end cap, ensuring that the gaskets are in place, both between the burner body and the air box, and between the burner body and the end cap.

REPLACE any gaskets that are DAMAGED or DETERIORATED.

When refastening the nuts and washers securing the burner end cap and body, it is VITAL to ensure a good seal at both ends of the burner.

Repeat procedure for second burner.

Inspect the pilot burner, thermocouple and ignition electrode — ensure they are clean and in good condition.

In particular, check that:

1. The pilot burner is firmly secured.
2. The pilot shield is clean and unobstructed.
3. The ignition electrode and lead are clean, undamaged and secure.
4. The thermocouple tip is NOT burned or cracked.
5. The thermocouple terminal, at the gas valve, is clean and secure.
6. The pilot burner head is clean and undamaged.

Re-assemble in reverse order.

### LOWER FRONT PANEL

Carefully remove gauze assembly from its spring clips behind lower front panel grille.

Clean the gauze to remove any deposits of lint or fluff.

Replace the gauze carefully into its spring clips.

### FLUEWAYS

Remove the burner assembly as previously described.

Remove the split pin from the thermostat pocket and pull out the thermostat phial and phial retaining bracket.

Remove the upper front panel by undoing the two screws securing it to the side panels, and lifting it off the locating hooks.

Unfasten the two screws securing the plug-in electrical connector to the control box and remove the connector. Place the upper front panel to one side.

Undo the wing nuts securing the cleanout cover and remove cover.

Lift out the stainless steel baffles from the flueways.

Remove all the loose deposits from the heat exchanger, especially from between the fins — using a suitable flexible brush, and remove all debris from the combustion chamber floor.

Replace the stainless steel baffles into the boiler flueways.

Refit the cleanout cover.

**ALWAYS REPLACE any DAMAGED or DETERIORATED sealing gaskets.**

Reconnect the electrical plug-in connector to the control box on the upper front panel and fasten it — using the two M4 screws.

Refit the upper front panel, ENSURING that the thermostat phial and phial retaining spring are correctly located in the thermostat pocket, and secured by the split pin. (refer Fig. 4)

Refit the burner assembly.

Complete the gas and electrical connections.

## PILOT BURNER

Light the boiler and check that:

1. The pilot flame impinges on the thermocouple head and that the position of the thermocouple, relative to the pilot burner and the main burner, is as shown by Fig. 18.
2. The pilot flame covers 13mm (½in) of the thermocouple tip.

Turn the adjuster screw (E), Fig. 17, **ANTI-CLOCKWISE** to **INCREASE** the flame, and **CLOCKWISE** to **DECREASE** it.

## ADJUSTMENT OF GAS PRESSURE

After each occasion of servicing, reference should be made to Table 2, which quotes details of the rated output, with the related burner setting pressure and heat input.

Any required adjustments should be made by using the pressure adjustment screw (C), illustrated in Fig. 17.

Refit lower front panel.

## REPLACEMENT OF COMPONENTS

### WARNING:

**ALWAYS turn OFF the gas supply at the inlet gas cock, and switch OFF and DISCONNECT, the electricity supply BEFORE WORKING on the appliance.**

To facilitate the replacement of components, remove and replace the lower front panel, where necessary, as previously described in 'Servicing'.

**Note:** For replacement of faulty Pump or Programmer units, the Pump Kit leaflet, or the Programmer Kit leaflet, should be referred to.

### Sight Glass

Unfasten the two wing nuts holding the sight glass assembly to the burner front plate.

When fitting the replacement assembly, make certain the parts are in correct order, i.e. gasket, glass, gasket and frame.

Retighten the two wing nuts to ensure an airtight seal, but **DO NOT OVERTIGHTEN**.

### Control Box

Remove the upper front panel from the boiler as previously described.

Pull off the thermostat knob.

Remove the two screws and washers securing the control box cover, and lift it off.

Remove the three screws and washers securing the control box assembly to the upper front panel.

Fit the new control box.

Re-assemble in reverse order.

### Boiler Thermostat

Remove the upper front panel from the boiler as previously described.

Pull off the thermostat knob and remove the two screws and washers securing the control box cover, and lift it off.

Disconnect the two electrical connections from the thermostat.

Undo the three screws and washers securing the control box case to the upper front panel and lift it off.

Remove the thermostat capillary from its retaining clip.

Undo the two screws securing the thermostat body to the control box case.

Fit the new thermostat so that its terminals face towards the near edge of the control box — refer Fig. 19, and re-assemble in reverse order.

ENSURE that the thermostat capillary is clipped and leads through the slot in the control box edge.

ENSURE also that the thermostat phial and phial retaining bracket are in position in the thermostat pocket **BEFORE** securing with the split pin (Refer Fig. 4a).

### Piezo Unit

Disconnect the igniter lead from the piezo unit body.

Remove the screw and washer securing the piezo unit to the gas valve. In the case of the CF.140 unscrew the plastic locking nut.

Fit the new unit, (ensuring the piezo unit heat shield is replaced, CF.65—125 only).

Reconnect the igniter lead.

### Igniter Lead

Remove the burner assembly complete as previously described.

Disconnect the igniter lead at the piezo unit and at the electrode.

Remove the purse clips that secures it to the pilot gas pipe and the thermocouple lead.

Fit the new igniter lead and secure it to the pilot pipe with the purse clips.

Re-assemble in reverse order.

### Thermocouple

Remove the burner assembly complete as previously described.

Undo the thermocouple connections at the gas valve and pilot burner.

Remove the purse clips securing the thermocouple to the pilot pipe.

Fit the new thermocouple and arrange any slack in the thermocouple lead neatly outside the combustion chamber.

Re-assemble in reverse order.

### Pilot Burner

Remove the burner assembly complete as previously described.

Undo the thermocouple and pilot gas pipe connections at the pilot burner.

Disconnect the igniter lead from the electrode.

Unfasten the backnut retaining the electrode and remove.

Undo the two screws securing the pilot burner to the pilot burner bracket and **CAREFULLY** remove the pilot burner.

Fit the new pilot burner, **ENSURING** that the thermocouple is **TOWARD THE FRONT**, and that the pilot burner injector is in position, **BEFORE** reconnecting the pilot pipe.

Re-assemble in reverse order.

### Electrode

Remove the burner assembly complete as previously described.

Disconnect the igniter lead from the electrode.

Unfasten the backnut retaining the electrode to the pilot burner bracket.

Fit the new electrode.

Re-assemble in reverse order.

### Gas Valve

Remove the burner assembly complete as previously described.

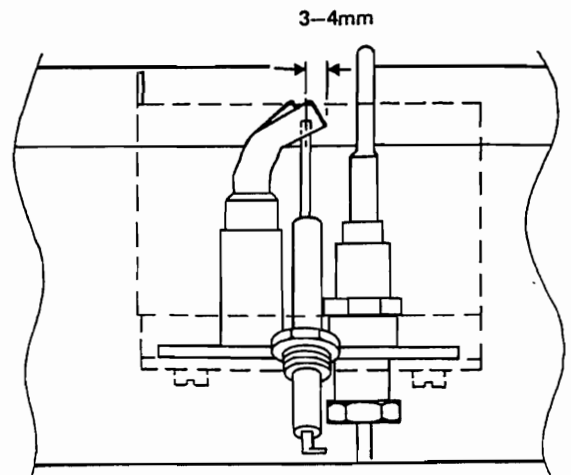
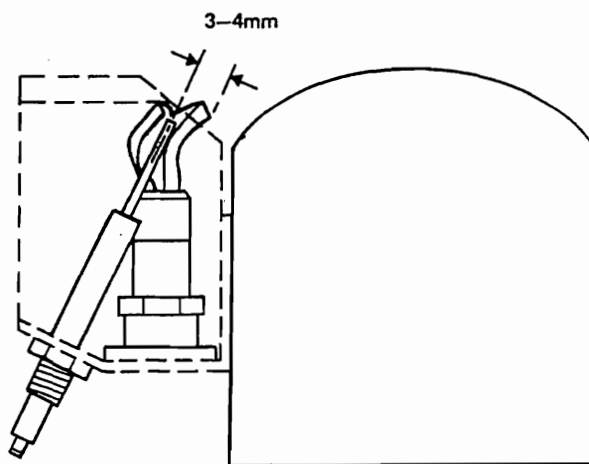
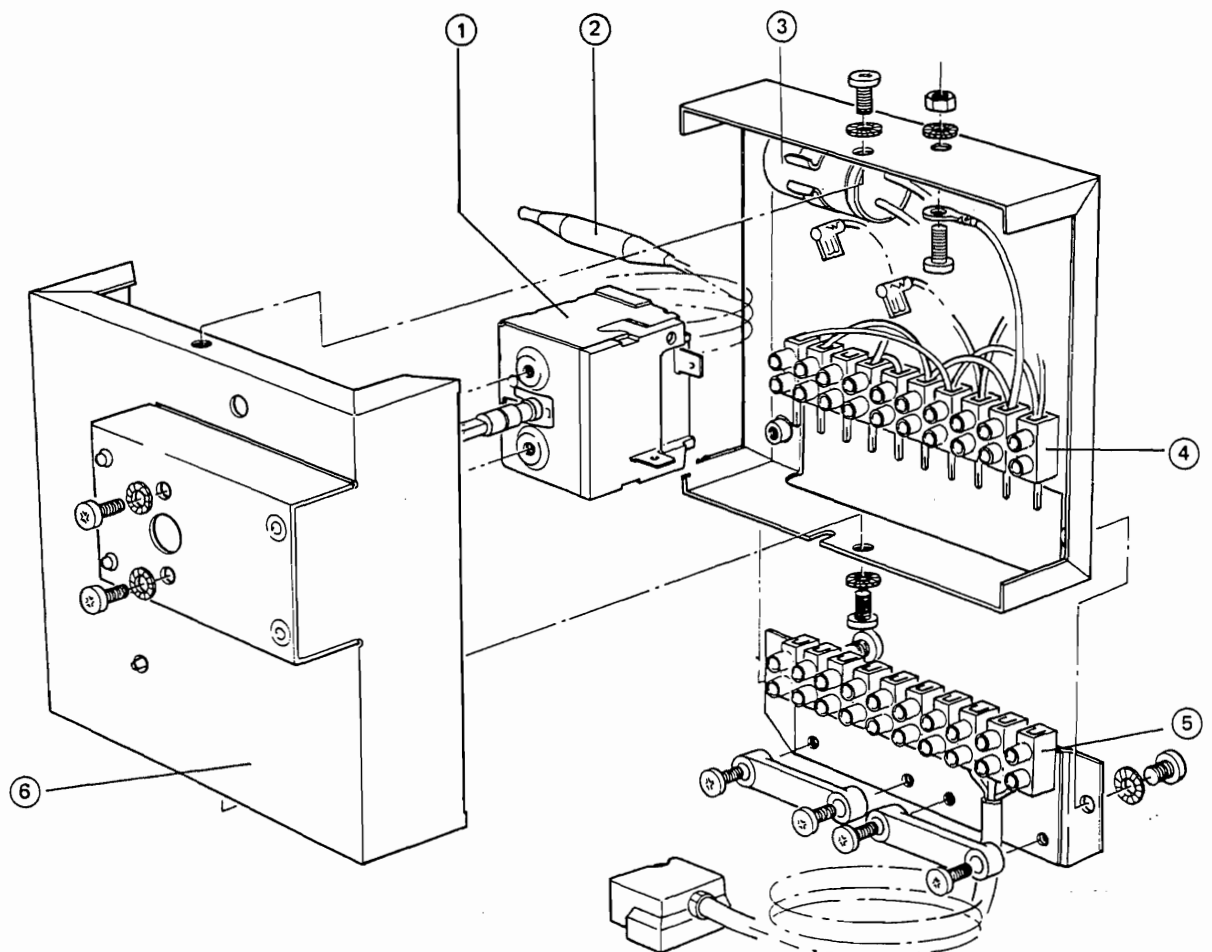


Fig. 18

PILOT and ELECTRODE POSITION



**LEGEND:**

- 1. Boiler Thermostat
- 2. Thermostat Phial
- 3. Suppressor

- 4. Terminal Strip
- 5. Connector Plug
- 6. Control Box Cover

Fig. 19

CONTROL BOX

**LEGEND:**

1. Pilot Burner
2. Spark Electrode
3. R.H. Burner
4. Piezo Unit
5. Piezo Unit Heatshield
6. Gas Valve
7. 'O' Ring
8. Gas Manifold
9. Pilot Pipe
10. Sight Glass
11. Burner Injector
12. Space Nipple
13. Gas Cock Union
14. Burner Baffle
15. L.H. Burner
16. Burner Gauze
17. Burner End Cap and Gasket
18. Thermocouple
19. Pilot Burner Injector

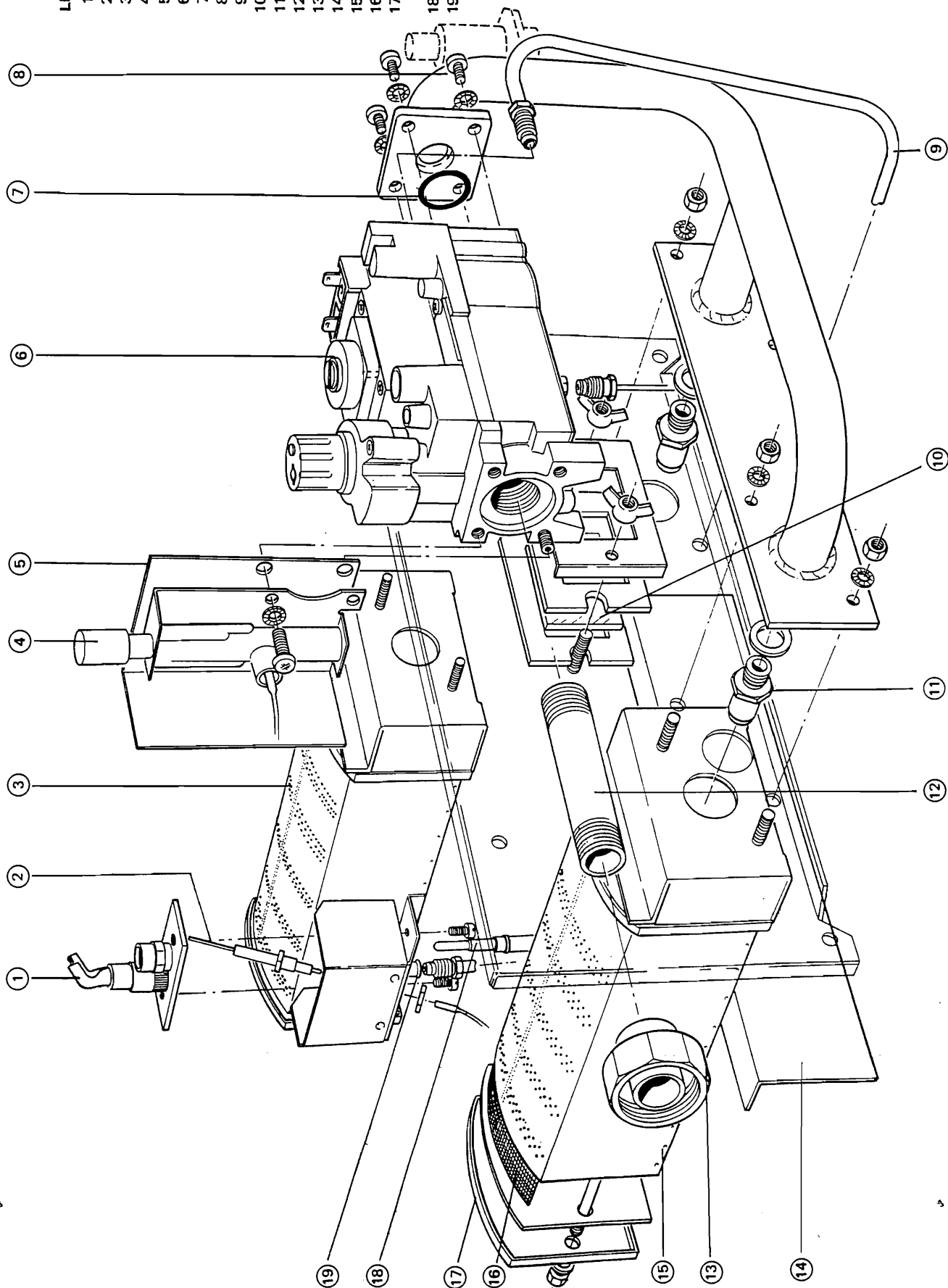


Fig. 20

BURNER and CONTROLS

Disconnect the pilot gas pipe and thermocouple at the gas valve.  
**For CF.65-125 ONLY**

Undo the screw and washer securing the piezo unit to the gas valve and remove the piezo unit, and the piezo unit heat shield, remove grub screw and retain for fitting to new valve.

Unscrew the short pipe complete with union tail.

Undo the four screws and washers securing the gas valve outlet flange.

Fit the new valve, ENSURING that the arrow, engraved on the base of the valve, points in the direction of the gas flow.

Fit a new 'O' ring seal correctly between the flange and the new gas valve.

Reconnect the piezo unit, piezo unit heat shield, pilot pipe and thermocouple.

Refit the short pipe, complete with union tail of the gas cock, using an approved jointing compound.

Refit the burner assembly to the boiler, test for gas soundness and recommission.

### **Main Burner**

Remove the burner assembly complete, as previously described.

Remove the two nuts and washers securing the burner air guide baffle to the underside of the burners.

ENSURE that this baffle is refitted to the new burner(s).

#### **1. L.H. BURNER:**

Undo the two nuts and washers securing the burner to the front plate and manifold, and lift the burner off.

Fit the new burner and re-assemble in reverse order.

#### **2. R.H. BURNER**

Disconnect the igniter lead from the electrode.

Undo the pilot pipe and thermocouple connections at the pilot burner.

Undo the two nuts and washers securing the main burner to the front plate and manifold, and lift the burner off.

Unfasten the backnut retaining the electrode to the pilot burner bracket and remove electrode.

Undo the two screws securing the pilot burner to the pilot burner bracket, and remove the pilot burner.

Fit the pilot burner and thermocouple to the new burner, ENSURING that the thermocouple is TOWARD THE FRONT, and that the pilot injector is in position.

Fit the electrode to the new burner and secure it with the backnut.

Fit the new burner in reverse order, being CAREFUL not to damage the main burner injector which is screwed into the end of the gas valve outlet pipe, and ENSURING that the burner air guide baffle is refitted to the underside of the burners as shown in Fig. 20.

### **Lower Front Panel**

#### **Lint Arresting Gauze**

Remove the lower front panel, remove the gauze assembly from behind the lower grille by pulling top and bottom retaining strips from the four spring clips.

Fit the new gauze by clipping both top and bottom edge retaining strips into the four spring clips situated on the grille returns.

Replace the lower front panel.

#### **Main Burner Injector**

Remove the appropriate burner as described previously.

Fit the new injector, using a NEW gasket, in the case of the CF.140 seal with a suitable sealing compound only.

Re-assemble in reverse order.

# FAULT FINDING

Before attempting any electrical fault finding, ALWAYS carry out the preliminary electrical system checks as detailed on pages 6–9 of the Instructions for the British Gas Multimeter.

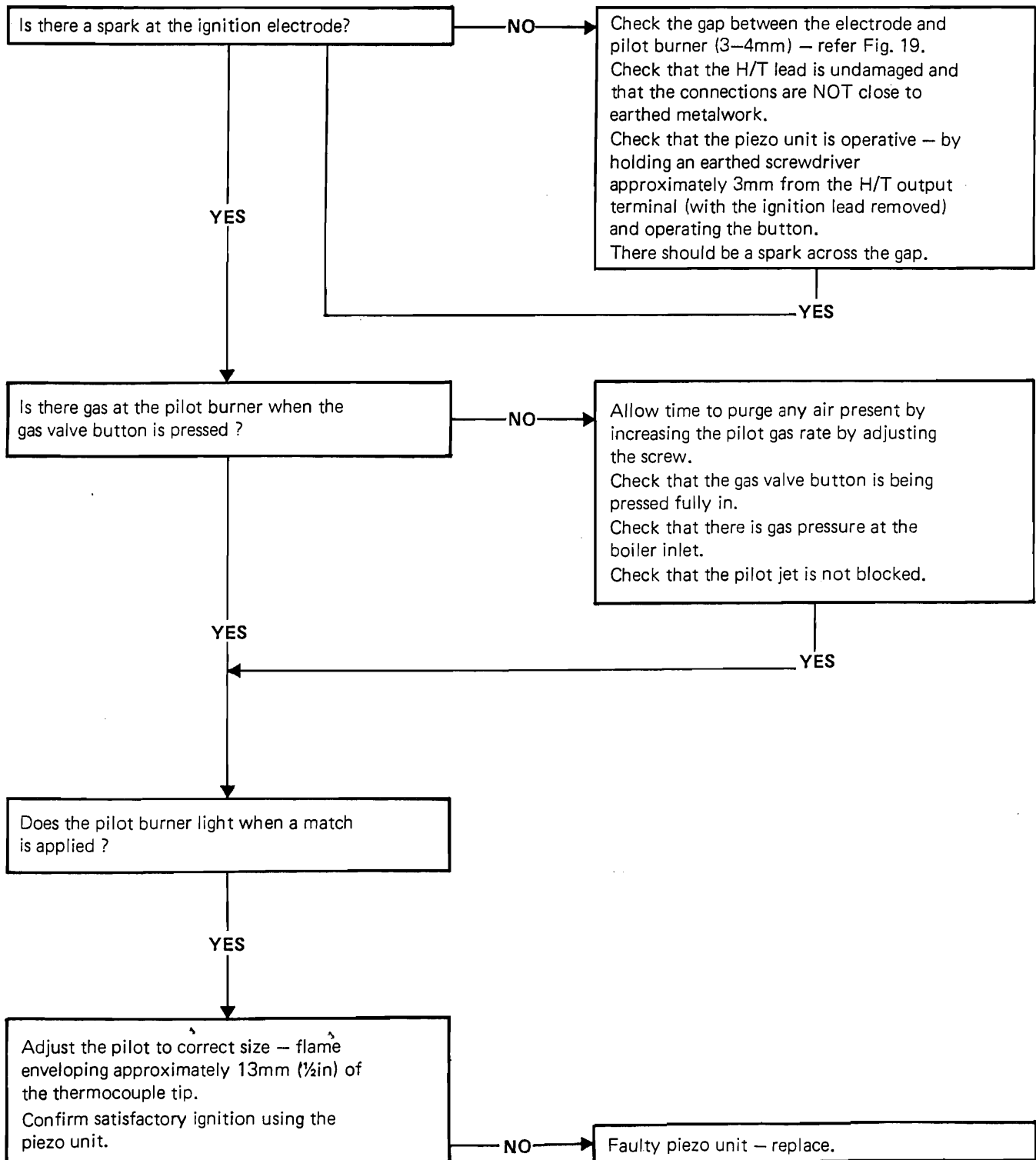
The preliminary electrical system checks are the FIRST electrical checks to be carried out during a fault finding procedure.

On completion of the service/fault finding task, which has required the breaking and remaking of electrical connections, then the checks –

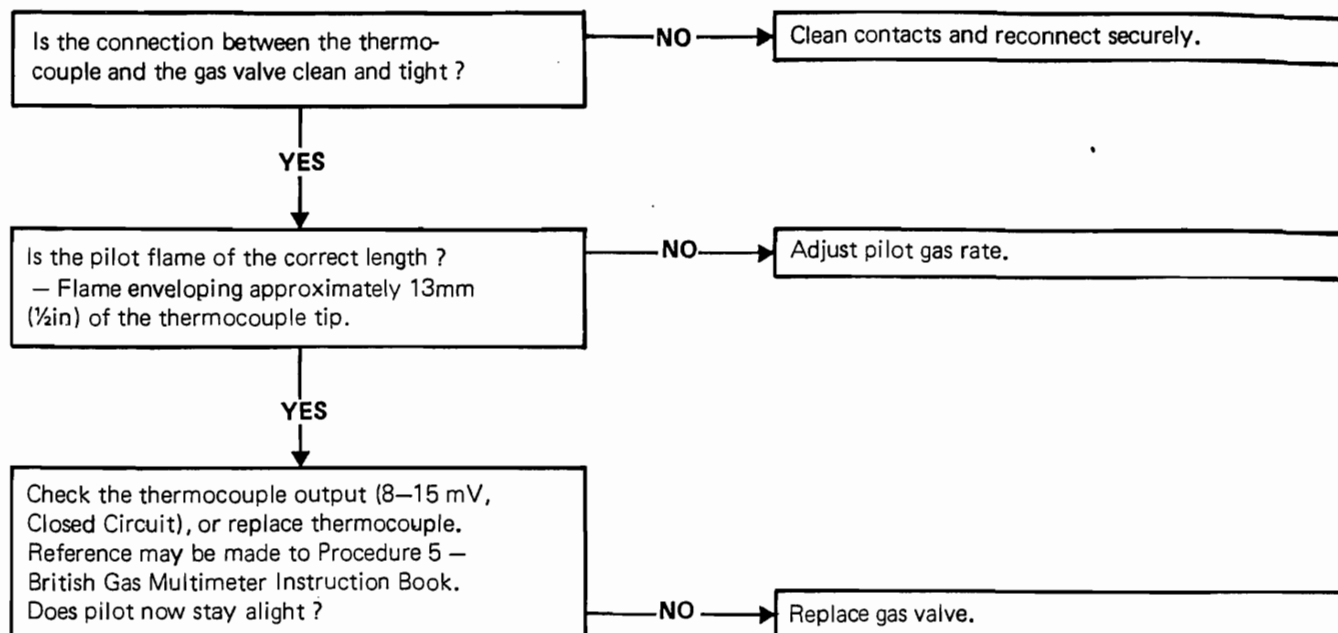
- (a) Earth Continuity,
- (b) Polarity, and
- (c) Resistance to Earth –

DETAILED INSTRUCTIONS ON THE REPLACEMENT OF FAULTY COMPONENTS ARE CONTAINED IN THE SERVICING SECTION OF THIS PUBLICATION.

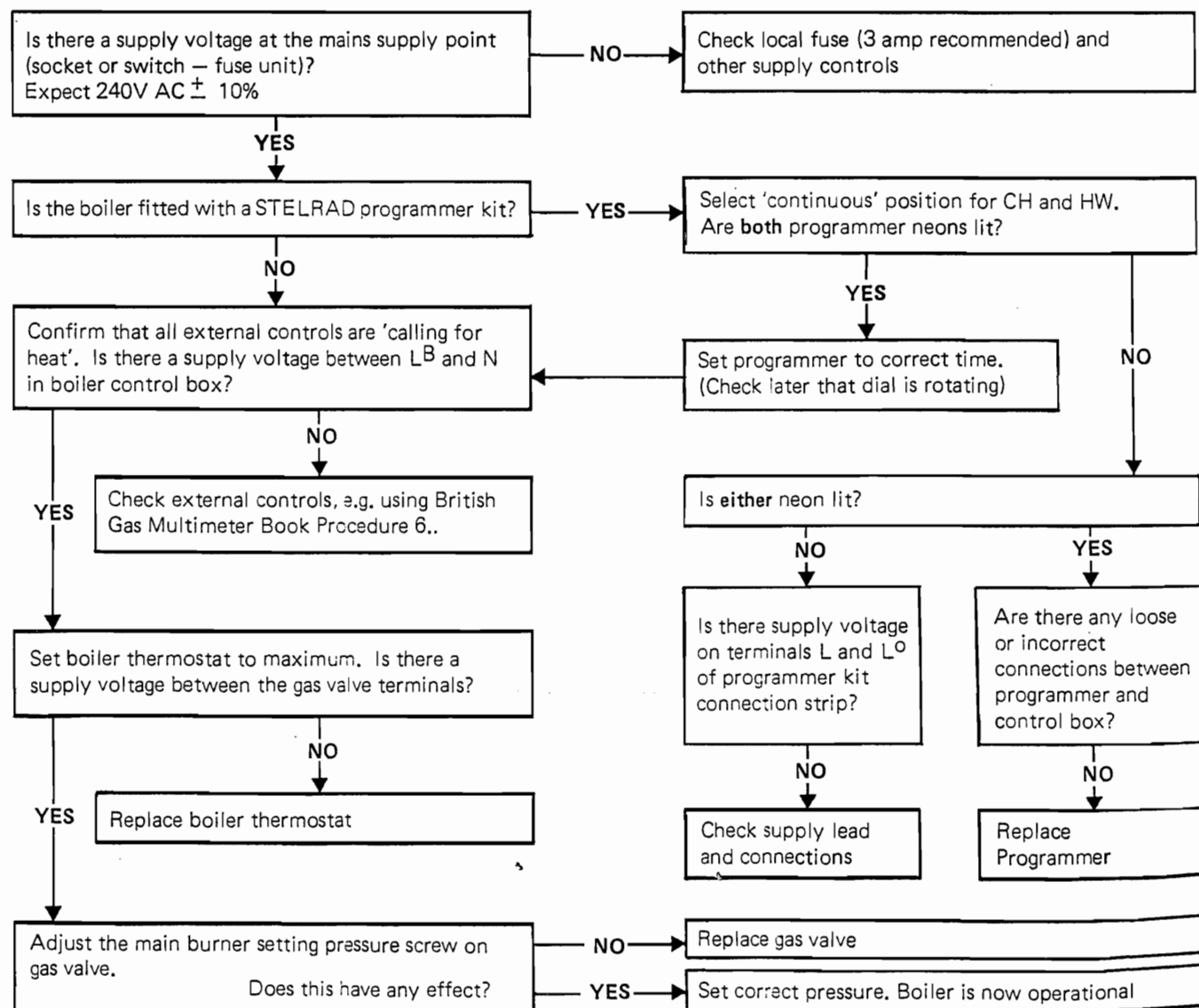
## PILOT WILL NOT LIGHT



# PILOT WILL NOT STAY LIT WHEN THE GAS VALVE BUTTON IS RELEASED



## PILOT LIT, BUT NO MAINS GAS



# SHORT LIST OF PARTS

The following list comprises parts commonly required as replacements due to damage, expendability, or such that their failure, or absence, is likely to affect safety or performance.

This List is extracted from the B.G.C. List of Parts, which contains all available spare parts.

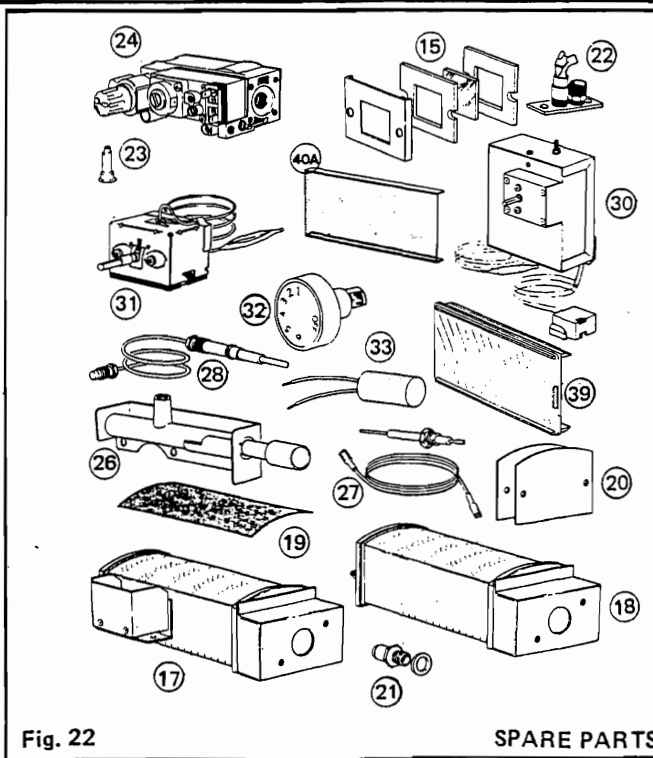
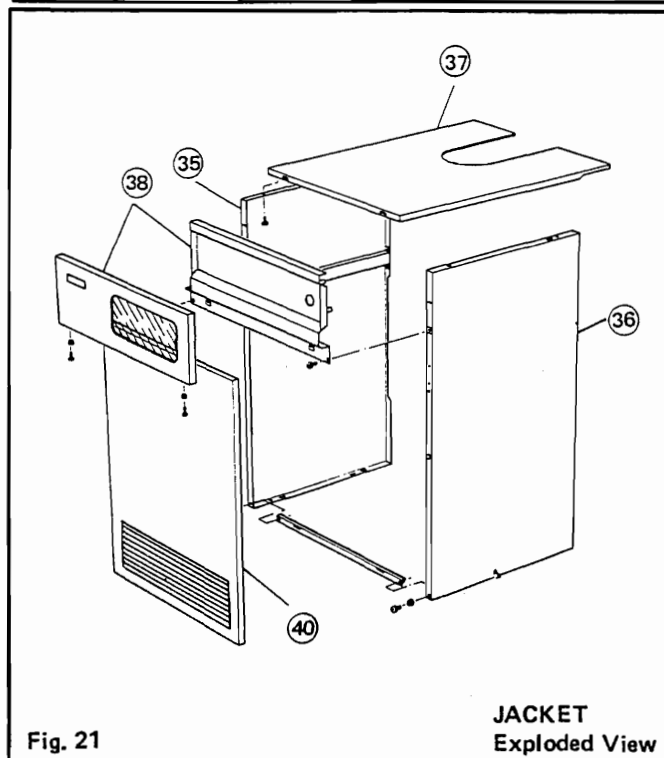
Copies of the B.G.C. Lists are held by Gas Regions, Stelrad Distributors and by Merchants.

## IDEAL MEXICO SUPER CF. 65, 75 & 80 GAS BOILERS

When ordering spares, please quote:

1. Boiler Model
2. B.G.C. Appliance Number
3. Description
4. Maker's Part Number
5. Quantity

| Key No. | B.G.C. Part No. | Description                                                                                                       | No. Off | Maker's Part No. |
|---------|-----------------|-------------------------------------------------------------------------------------------------------------------|---------|------------------|
| 15      | 341 350         | Sight glass assembly, comprising: sight glass and frame with 2—sight glass gaskets and 2—M5 wing nuts             | 1       | 129018725        |
| 17      | 383 618         | RH burner bar — FURIGAS SR. 118.096 — with pilot burner bracket                                                   | 1       | 129018737        |
| 18      | 383 615         | LH burner bar — FURIGAS SR. 118.093 — Less bracket                                                                | 1       | 129018738        |
| 19      | 341 354         | Lint arresting gauze, with 2—end cap gaskets                                                                      | 1       | 129018750        |
| 20      | 341 357         | End cap gaskets — (2 per set)                                                                                     | 2       | 129018751        |
| 21      |                 | Burner injector and fibre washer :                                                                                |         |                  |
|         | 398 435         | BRAY Cat.33 Size 950 — CF.65 Model                                                                                | 2       | 129018739        |
|         | 398 477         | BRAY Cat.33 Size 1100 — CF.75 Model                                                                               | 2       | 129028739        |
|         | 398 478         | BRAY Cat.33 Size 1300 — CF.80 Model                                                                               | 2       | 129038739        |
| 22      | 391 537         | Pilot burner — HONEYWELL Q314 A5823, with BCR.18 injector                                                         | 1       | 586861610        |
| 23      | 390 794         | Pilot burner injector — HONEYWELL BCR.18                                                                          | 1       | 169120177        |
| 24      | 393 659         | ½in.BSP HONEYWELL Compact gas control — V4600 A1023 240v                                                          | 1       | 586121900        |
| 26      | 388 047         | Piezo igniter — VERNITRON Variant 600/38/01 with 2—M5 nuts and 2—M5 shakeproof washers                            | 1       | 586810087        |
| 27      | 382 519         | Ignition electrode and H/T lead assembly                                                                          | 1       | 589919988        |
| 28      | 390 210         | Thermocouple — HONEYWELL Q309 A2739 — 750mm lg.                                                                   | 1       | 576010051        |
| 30      | 341 358         | Control box — includes Key No's 31, 32 and 33                                                                     | 1       | 586071270        |
| 31      |                 | Thermostat — RANCO CL6 P0104 — with retaining spring                                                              | 1       | 586121511        |
| 31A     | 341 431         | Thermostat phial retaining bracket (not illustrated)                                                              | 1       | 586011518        |
| 32      | 341 359         | Thermostat knob                                                                                                   | 1       | 586011517        |
| 33      | 384 689         | Suppressor assembly — Can type — with 100mm leads                                                                 | 1       | 589040030        |
| 34      | 341 360         | Jacket — WHITE Stove Enamel                                                                                       | 1       | 129018211        |
| 35      | 341 363         | L.H. Jacket panel assembly — WHITE Stove Enamel                                                                   | 1       | 129018212        |
| 36      | 341 365         | R.H. Jacket panel assembly — WHITE Stove Enamel                                                                   | 1       | 129018213        |
| 37      | 341 367         | Jacket top panel assembly — WHITE Stove Enamel                                                                    | 1       | 129018215        |
|         | 341 368         | Jacket top panel assembly — WHITE Stove Enamel                                                                    | 1       | 129038215        |
| 38      | 341 370         | Jacket upper front panel assembly (LESS Controls) — WHITE Stove Enamel, with plastic sliding fascia cover         | 1       | 129018216        |
| 39      | 341 371         | Plastic sliding fascia cover                                                                                      | 1       | 129018140        |
| 40      | 341 372         | Jacket lower front panel assembly — WHITE Stove Enamel — complete with Instruction Plate and lint arresting gauze | 1       | 129018218        |
| 40A     | 341 429         | Lower front panel lint arresting gauze                                                                            | 1       | 129018219        |



## SHORT LIST OF PARTS

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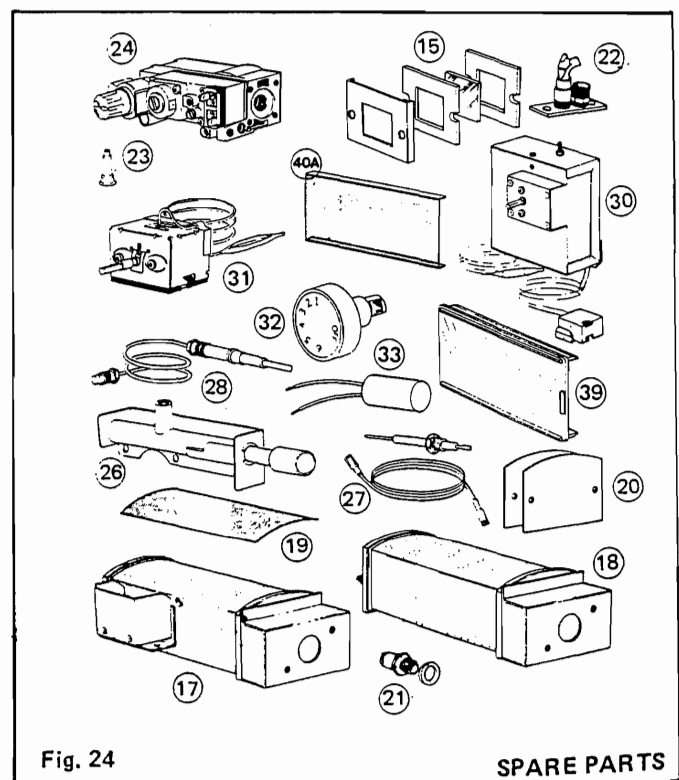
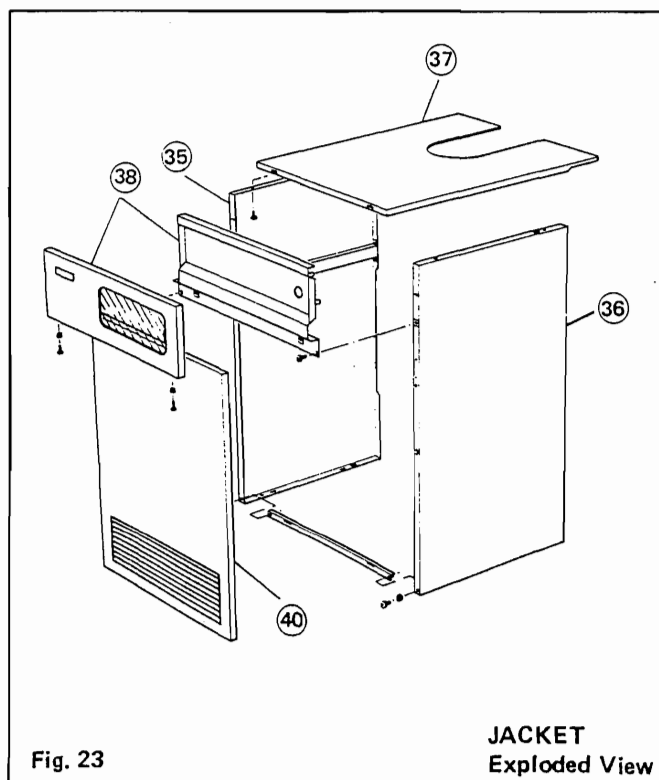
Copies of the B.G.C. Lists are held by Gas Regions, Stelrad Distributors and by Merchants.

## IDEAL MEXICO SUPER CF.100 GAS BOILER

When ordering spares, please quote:

1. Boiler Model
2. B.G.C. Appliance Number
3. Description
4. Maker's Part Number
5. Quantity.

| Key No. | B.G.C. Part No. | Description                                                                                                       | No. Off | Maker's Part No. |
|---------|-----------------|-------------------------------------------------------------------------------------------------------------------|---------|------------------|
| 15      | 341 350         | Sight glass assembly, comprising : sight glass and frame with 2—sight glass gaskets and 2—M5 wing nuts            | 1       | 129018725        |
| 17      | 383 619         | RH burner bar — FURIGAS SR. 118.097.00 — with pilot burner bracket                                                | 1       | 129048737        |
| 18      | 383 616         | LH. burner bar — FURIGAS SR. 118.094.00 — Less bracket                                                            | 1       | 129048738        |
| 19      | 341 355         | Lint arresting gauze, with 2—end cap gaskets                                                                      | 1       | 129048750        |
| 20      | 341 357         | End cap gaskets — (2 per set)                                                                                     | 2       | 129018751        |
| 21      | 398 485         | Burner injector and fibre washer — BRAY Cat.33 Size 1500                                                          | 2       | 129048739        |
| 22      | 391 537         | Pilot burner — HONEYWELL Q314 A5823, with BCR.18 injector                                                         | 1       | 586861610        |
| 23      | 390 794         | Pilot burner injector — HONEYWELL BCR.18                                                                          | 1       | 169120177        |
| 24      | 393 659         | ½in.BSP HONEYWELL Compact gas control — V4600 A1023 240v                                                          | 1       | 586121900        |
| 26      | 388 047         | Piezo igniter — VERNITRON Variant 600/38/01 with 2—M5 nuts and 2—M5 shakeproof washers                            | 1       | 586810087        |
| 27      | 382 519         | Ignition electrode and H/T lead assembly                                                                          | 1       | 589919988        |
| 28      | 390 210         | Thermocouple HONEYWELL Q309 A2739 — 750mm lg.                                                                     | 1       | 576010051        |
| 30      | 341 358         | Control box — includes Key No's 31, 32 and 33                                                                     | 1       | 586071270        |
| 31      |                 | Thermostat — RANCO CL6 P0104 — with retaining spring                                                              | 1       | 586121511        |
| 31A     | 341 431         | Thermostat phial retaining bracket (not illustrated)                                                              | 1       | 586011518        |
| 32      | 341 359         | Thermostat knob                                                                                                   | 1       | 586011517        |
| 33      | 384 689         | Suppressor assembly — Can type — with 100mm leads                                                                 | 1       | 589040030        |
| 34      | 341 361         | Jacket — WHITE Stove Enamel                                                                                       | 1       | 129038211        |
| 35      | 341 363         | L.H. Jacket panel assembly — WHITE Stove Enamel                                                                   | 1       | 129018212        |
| 36      | 341 365         | R.H. Jacket panel assembly — WHITE Stove Enamel                                                                   | 1       | 129018213        |
| 37      | 341 368         | Jacket top panel assembly — WHITE Stove Enamel                                                                    | 1       | 129038215        |
| 38      | 341 370         | Jacket upper front panel assembly (LESS Controls) — WHITE Stove enamel, with plastic sliding fascia cover         | 1       | 129018216        |
| 39      | 341 371         | Plastic sliding fascia cover                                                                                      | 1       | 129018140        |
| 40      | 341 372         | Jacket lower front panel assembly — WHITE Stove Enamel — complete with Instruction Plate and lint arresting gauze | 1       | 129018218        |
| 40A     | 341 429         | Lower front panel lint arresting gauze                                                                            | 1       | 129018219        |



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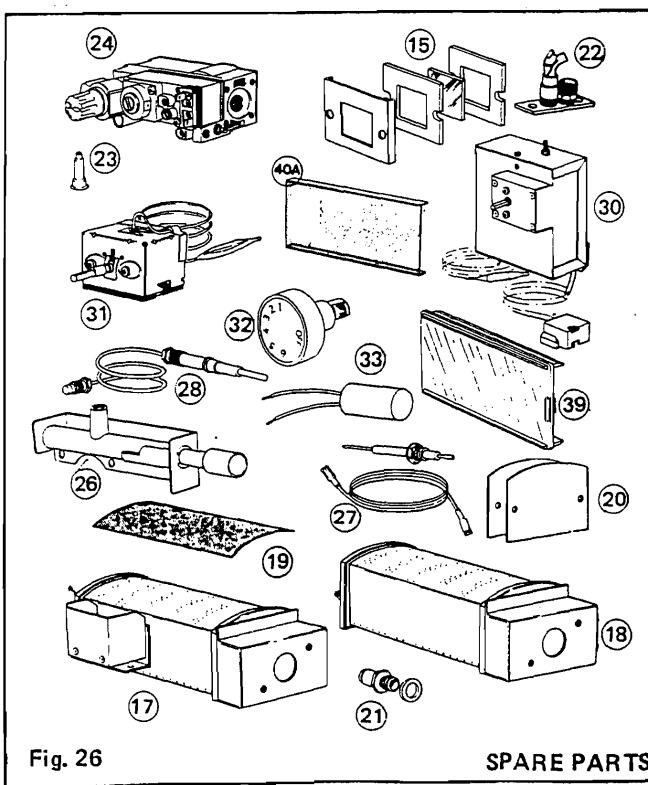
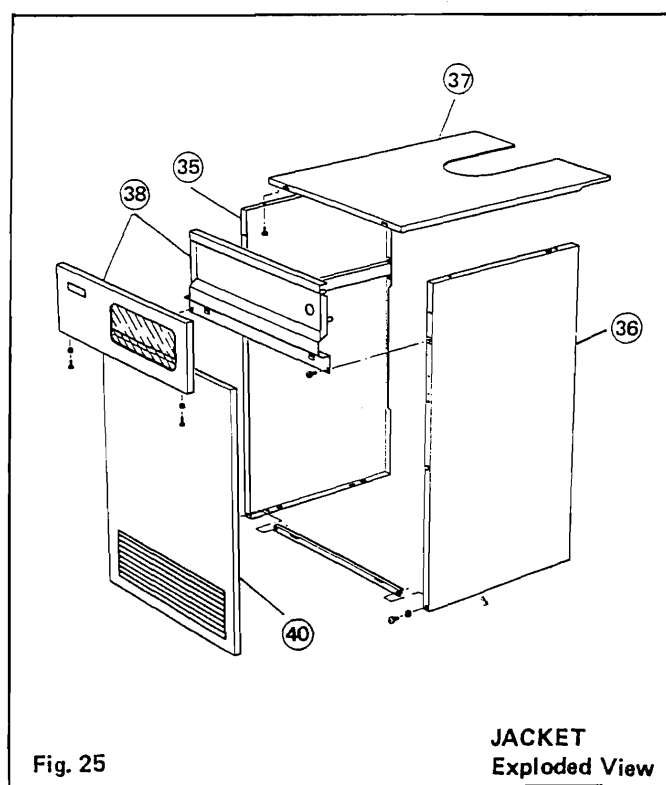
Copies of the B.G.C. Lists are held by Gas Regions, Stelrad Distributors and by Merchants.

## IDEAL MEXICO SUPER CF. 125 GAS BOILER

When ordering spares, please quote:

1. Boiler Model
2. B.G.C. Appliance Number
3. Description
4. Maker's Part Number
5. Quantity

| Key No. | B.G.C. Part No. | Description                                                                                                       | No. Off | Maker's Part No. |
|---------|-----------------|-------------------------------------------------------------------------------------------------------------------|---------|------------------|
| 15      | 341 350         | Sight glass assembly, comprising : sight glass and frame with 2—sight glass gaskets and 2—M5 wing nuts            | 1       | 129018725        |
| 17      | 383 620         | RH burner bar — FURIGAS SR. 118.098.00 — with pilot burner bracket                                                | 1       | 129058737        |
| 18      | 383 617         | LH burner bar — FURIGAS SR. 118.095.00 — Less bracket                                                             | 1       | 129058738        |
| 19      | 341 356         | Lint arresting gauze, with 2—end cap gaskets                                                                      | 1       | 129058750        |
| 20      | 341 357         | End cap gaskets — (2 per set)                                                                                     | 2       | 129018751        |
| 21      | 398 486         | Burner injector and fibre washer — BRAY Cat.33 Size 1700                                                          | 2       | 129058739        |
| 22      | 391 537         | Pilot burner — HONEYWELL Q314 A5823, with BCR.18 injector                                                         | 1       | 586681610        |
| 23      | 390 794         | Pilot burner injector — HONEYWELL BCR.18                                                                          | 1       | 169120177        |
| 24      | 393 659         | ½in.BSP HONEYWELL Compact gas control — V4600 A1023 240v                                                          | 1       | 586121900        |
| 26      | 388 047         | Piezo igniter — VERNITRON Variant 600/38/01 with 2—M5 nuts and 2—M5 shakeproof washers                            | 1       | 586810087        |
| 27      | 382 519         | Ignition electrode and H/T lead assembly                                                                          | 1       | 589919988        |
| 28      | 390 210         | Thermocouple — HONEYWELL Q309 A2739 — 750mm lg.                                                                   | 1       | 576010051        |
| 30      | 341 358         | Control box — includes Key No's 31, 32 and 33                                                                     | 1       | 586071270        |
| 31      |                 | Thermostat — RANCO CL6 P0104 — with retaining spring                                                              | 1       | 586121511        |
| 31A     | 341 431         | Thermostat phial retaining bracket (not illustrated)                                                              | 1       | 586011518        |
| 32      | 341 359         | Thermostat knob                                                                                                   | 1       | 586011517        |
| 33      | 384 689         | Suppressor assembly — Can type — with 100mm leads                                                                 | 1       | 589040030        |
| 34      | 341 362         | Jacket — WHITE Stove Enamel                                                                                       | 1       | 129058211        |
| 35      | 341 364         | L.H. Jacket panel assembly — WHITE Stove Enamel                                                                   | 1       | 129058212        |
| 36      | 341 366         | R.H. Jacket panel assembly — WHITE Stove Enamel                                                                   | 1       | 129058213        |
| 37      | 341 369         | Jacket top panel assembly — WHITE Stove Enamel                                                                    | 1       | 129058215        |
| 38      | 341 370         | Jacket upper front panel assembly (LESS Controls) — WHITE Stove Enamel, with plastic sliding fascia cover         | 1       | 129018216        |
| 39      | 341 371         | Plastic sliding fascia cover                                                                                      | 1       | 129018140        |
| 40      | 341 372         | Jacket lower front panel assembly — WHITE Stove Enamel — complete with Instruction Plate and lint arresting gauze | 1       | 129018218        |
| 40A     | 341 429         | Lower front panel lint arresting gauze                                                                            | 1       | 129018219        |



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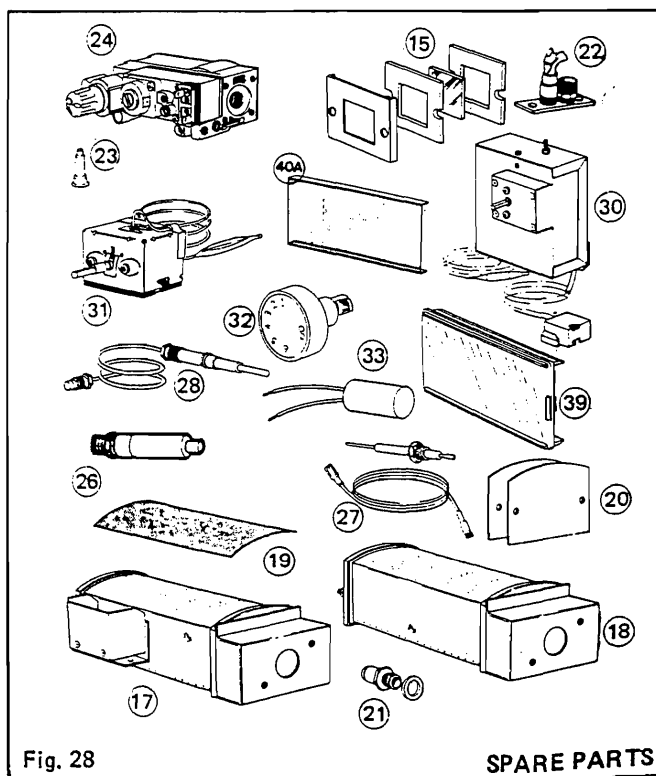
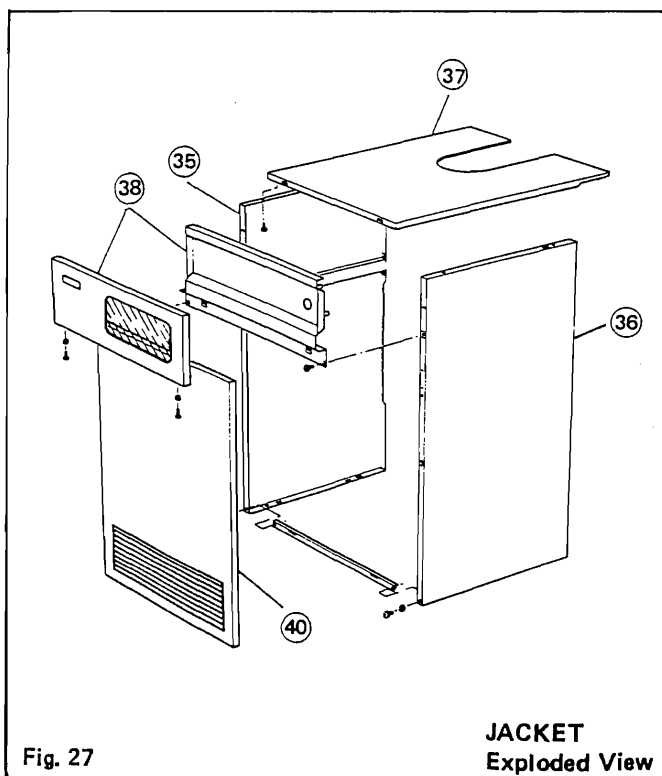
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## IDEAL MEXICO SUPER CF. 140 GAS BOILER

When ordering spares, please quote:

1. Boiler Model
2. G.C. Appliance Number
3. Description
4. Maker's Part Number
5. Quantity

| Key No. | G.C. Part No. | Description                                                                                                       | No. Off | Maker's Part No. |
|---------|---------------|-------------------------------------------------------------------------------------------------------------------|---------|------------------|
| 15      | 341 350       | Sight glass assembly, comprising: sight glass and frame with 2—sight glass gaskets and 2—M5 wing nuts             | 1       | 129018725        |
| 17      |               | RH Burner bar — FURIGAS SR. 11850057 — with pilot burner bracket                                                  | 1       |                  |
| 18      |               | LH burner bar — FURIGAS SR. 11850056 — less bracket                                                               | 1       |                  |
| 19      |               | Lint arresting gauze, with 2—end cap gaskets                                                                      | 1       |                  |
| 20      | 341 357       | End cap gaskets — (2 per set)                                                                                     | 2       | 129018751        |
| 21      | 398064        | Burner injector — BRAY Cat.10 Size 2200                                                                           | 2       | 189776060        |
| 22      | 391 537       | Pilot burner — HONEYWELL Q314 A5823, with BCR.18 injector                                                         | 1       | 586681610        |
| 23      | 390 794       | Pilot burner injector — HONEYWELL BCR.18                                                                          | 1       | 169120177        |
| 24      | 393 659       | ½in.BSP HONEYWELL Compact gas control — V4600 A1023 240V                                                          | 1       | 586121900        |
| 26      |               | Piezo igniter — VERNITRON 60080/002                                                                               | 1       | 586810087        |
| 27      | 382 519       | Ignition electrode and H/T lead assembly                                                                          | 1       | 589919988        |
| 28      | 390 210       | Thermocouple — HONEYWELL Q309 A2739 — 750mm lg.                                                                   | 1       | 576010051        |
| 30      | 341 358       | Control box — includes Key No's 31, 32 and 33                                                                     | 1       | 586071270        |
| 31      |               | Thermostat — RANCO CL6 P0104 — with retaining sprint                                                              | 1       | 586121511        |
| 31A     | 341 431       | Thermostat phial retaining bracket (not illustrated)                                                              | 1       | 586011518        |
| 32      | 341 359       | Thermostat knob                                                                                                   | 1       | 586011517        |
| 33      | 384 689       | Suppressor assembly — Can type — with 100mm leads                                                                 | 1       | 589040030        |
| 34      | 341 362       | Jacket — WHITE Stove Enamel                                                                                       | 1       | 129058211        |
| 35      |               | L.H. Jacket panel assembly — WHITE Stove Enamel                                                                   | 1       |                  |
| 36      |               | R.H. Jacket panel assembly — WHITE Stove Enamel                                                                   | 1       |                  |
| 37      |               | Jacket top panel assembly — WHITE Stove Enamel                                                                    | 1       |                  |
| 38      | 341 370       | Jacket upper front panel assembly (LESS Controls) — WHITE Stove Enamel, with plastic sliding fascia cover         | 1       | 129018216        |
| 39      | 341 371       | Plastic sliding fascia cover                                                                                      | 1       | 129018140        |
| 40      | 341 372       | Jacket lower front panel assembly — WHITE Stove Enamel — complete with instruction Plate and lint arresting gauze | 1       | 129018218        |
| 40A     | 341 429       | Lower front panel lint arresting gauze                                                                            | 1       | 129018219        |





**THIS SYMBOL IS YOUR  
ASSURANCE OF QUALITY**

These appliances are designed for use with Natural Gas only and have been tested and conform with the provisions of BS.6332 and BS.5258.

Products bearing this kitemark are made to a safety and performance standard under a stringent scheme of supervision and control monitored by the British Standards Institute.

**STELRAD GROUP** pursues a policy of continuing improvement in design and performance of its products. The right is therefore, reserved to vary specification without notice.

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